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MISSOURI PUBLIC SERVICE COMMISSION
CASE NO.: ER-2018-0145

DIRECT TESTIMONY
OF

ROBERT B. HEVERT

ON BEHALF OF

KANSAS CITY POWER \& LIGHT COMPANY

Kansas City, Missouri<br>January 2018

## TABLE OF CONTENTS

I. INTRODUCTION AND SUMMARY OF RECOMMENDATIONS .....  1
II. PURPOSE AND OVERVIEW OF TESTIMONY ..... 2
III. SUMMARY OF ISSUES SURROUNDING COST OF EQUITY ESTIMATION IN REGULATORY PROCEEDINGS ..... 7
IV. PROXY GROUP SELECTION ..... 12
V. COST OF EQUITY ESTIMATION ..... 15
A. Constant Growth Discounted Cash Flow Model ..... 17
B. Multi-Stage DCF Model ..... 25
C. Capital Asset Pricing Model ..... 33
D. Bond Yield Plus Risk Premium Approach ..... 37
VI. BUSINESS RISKS AND OTHER CONSIDERATIONS ..... 42
A. Regulatory Environment ..... 43
B. Generation Portfolio ..... 46
C. Planned Capital Expenditures ..... 48
VII. CAPITAL MARKET ENVIRONMENT ..... 52
VIII. COST OF DEBT ..... 67
IX. CAPITAL STRUCTURE AND OVERALL RATE OF RETURN ..... 68
X. CONCLUSIONS AND RECOMMENDATION ..... 71

## GLOSSARY OF FREQUENTLY USED TERMS

$\left.$| TERM | DESCRIPTION |
| :--- | :--- |
| Beta Coefficient | A component of the CAPM that measures the risk of <br> a given stock relative to the risk of the overall market. |
| Capital Asset Pricing Model |  |
| ("CAPM") | A risk premium-based model used to estimate the <br> Cost of Equity, assuming the stock is added to a well- <br> diversified portfolio. The CAPM assumes that <br> investors are compensated for the time value of <br> money (represented by the Risk-Free Rate), and risk <br> (represented by the combination of the Beta <br> Coefficient and the Market Risk Premium). |
| Constant Growth DCF Model | A form of the DCF model that assumes cash flows <br> will grow at a constant rate, in perpetuity. The model <br> simplifies to a form that expresses the Cost of Equity <br> as the sum of the expected dividend yield and the <br> expected growth rate. |
| Cost of Equity | The return required by investors to invest in equity <br> securities. The terms "Return on Equity" and "Cost <br> of Equity" are used interchangeably. |
| Discounted Cash Flow ("DCF") Model | A model used to estimate the Cost of Equity based on <br> expected cash flows. The Cost of Equity equals the <br> discount rate that sets the current market price equal <br> to the present value of expected cash flows. |
| Dividend Yield | For a given stock, the current dividend divided by the <br> current market price. |
| Gross Domestic Product ("GDP") | The value of all finished goods and services produced <br> within a country during a given period of time <br> (usually measured annually). GDP includes public <br> and private consumption, government expenditures, <br> investments, and exports less imports. |
| Multi-Stage DCF Model | The expected return on the equity market, taken as a <br> portfolio. |
| Market Return Risk Premium | The additional compensation required by investing in <br> the equity market as a portfolio over the Risk-Free <br> rate. The Market Risk Premium is a component of <br> the CAPM. |
| A form of the DCF model in which the rate of growth |  |
| may change over different stages. |  |\(\left|\begin{array}{l}A group of publicly traded companies used as the <br>

"proxy" for the subject company (in this case, <br>
KCP\&L). Proxy companies are sometimes referred <br>

to as "Comparable Companies."\end{array}\right| \right\rvert\,\)


| TERM | DESCRIPTION |
| :--- | :--- |
| Return on Equity ("ROE") | The return required by investors to invest in equity <br> securities. The terms "Return on Equity" and "Cost <br> of Equity" are used interchangeably. |
| Risk-Free Rate | The rate of return on an asset with no risk of default. |
| Risk Premium | The additional compensation required by investors <br> for taking on additional increments of risk. Risk <br> Premium-based approaches are used in addition to the <br> DCF and CAPM to estimate the Cost of Equity. |
| Terminal Growth | The expected rate of growth in the final, or terminal, <br> stage of the Multi-Stage DCF model. |
| Treasury Inflation Protected Securities | Treasury securities that are indexed to inflation. The <br> principal value of TIPS increase with inflation and <br> decrease with deflation, as measured by the <br> Consumer Price Index. |
| ("TIPS") | The return on Treasury securities; the yield on long- <br> term Treasury bonds is considered to be a measure of <br> the Risk-Free Rate. |

# DIRECT TESTIMONY 

## OF

## ROBERT B. HEVERT

Case No. ER-2018-0145

## I. INTRODUCTION AND SUMMARY OF RECOMMENDATIONS

## Q: Please state your name and business address.

A: My name is Robert B. Hevert and my business address is ScottMadden, Inc., 1900 West Park Drive, Suite 250, Westborough, MA 01581.

## Q: On whose behalf are you submitting this testimony?

A: I am submitting this direct testimony ("Direct Testimony") before the Missouri Public Service Commission ("Commission") on behalf of Kansas City Power \& Light Company ("KCP\&L" or the "Company").

## Q: Please describe your educational background.

A: I hold a Bachelor's degree in Business and Economics from the University of Delaware, and an MBA with a concentration in Finance from the University of Massachusetts. I also hold the Chartered Financial Analyst designation.

Q: Please describe your experience in the energy and utility industries.
A: I have worked in regulated industries for over thirty years, having served as an executive and manager with consulting firms, a financial officer of a publicly-traded natural gas utility (at the time, Bay State Gas Company), and an analyst at a telecommunications utility. In my role as a consultant, I have advised numerous energy and utility clients on a wide range of financial and economic issues, including corporate and asset-based
transactions, asset and enterprise valuation, transaction due diligence, and strategic matters. As an expert witness, I have provided testimony in more than 230 proceedings regarding various financial and regulatory matters before numerous state utility regulatory agencies, the Federal Energy Regulatory Commission, and the Alberta Utilities Commission. A summary of my professional and educational background, including a list of my testimony in prior proceedings, is included in Attachment A to my Direct Testimony.

## II. PURPOSE AND OVERVIEW OF TESTIMONY

## Q: What is the purpose of your Direct Testimony?

A: On behalf of KCP\&L, my Direct Testimony presents evidence and provides a recommendation regarding the Company's Return on Equity ("ROE"), ${ }^{1}$ and assesses the reasonableness of the Company's capital structure and Cost of Debt. My analyses and conclusions are supported by the data presented in Schedules RBH-1 through RBH-12, which have been prepared by me or under my direction.

Q: What are your conclusions regarding the appropriate Cost of Capital for the Company?

A: The Company's 5.06 percent Cost of Debt reflects the prevailing level of interest rates at the times of issuance. As such, I conclude that the Company's proposed Cost of Debt is reasonable and appropriate.

As to the Company's requested capital structure of 50.03 percent common equity and 49.97 percent long-term debt, I conclude that it is consistent with those in place at

[^0]similarly-situated utilities, whose capital structures include common equity ratios in the range of 45.89 percent to 59.52 percent.

As to the Company's Cost of Equity, my analyses indicate that an ROE in the range of 9.75 percent to 10.50 percent represents the range of equity investors' required return for investment in vertically integrated electric utilities similar to the Company in today's capital markets. I note that the Cost of Equity, which is the return required by equity investors to assume the risks of ownership, is a market-based concept. As discussed further in my testimony, as opposed to the earned return on common equity, which is an accounting construct that can be observed in historical data, the Cost of Equity is unobservable and must be estimated based on observable capital market data. As a consequence, there may be differences of opinion among analysts as to the data, assumptions and models used in the estimation process.

Further, I am aware that the Commission's 2015 Report and Order in Case No. ER-2014-0370 ("2015 KCP\&L Order") discussed the importance of recommendations that rely on verifiable and independent market data, and accepted market-based rate of return models. ${ }^{2}$ As discussed throughout my Direct Testimony, the analyses that underlie my recommended range consider the Commission's findings, and reflect the types of analyses and data discussed in the 2015 KCP\&L Order. Based on the those analyses and data, and in light of that order, it is my view that the Company's ROE is within the range of 9.75 percent to 10.50 percent, and represents a reasonable, but conservative range of the Company's Cost of Equity.

[^1]In my view, the factors that are commonly used to estimate the Cost of Equity likely indicate that a higher range than 9.75 percent to 10.50 percent, and an ROE at the mid- to upper-end of such a higher range is appropriate. However, the Company has asked that I give considerable weight to recent Commission orders, including the types of data and analyses discussed in those orders, in developing my proposed range and recommendation. Having done so, my proposed range is lower than otherwise would be the case.

## Q: Has KCP\&L filed a rate case since the 2015 KCP\&L Order?

A: Yes, it has. In its 2017 Report and Order in Case No. ER-2016-0285 ("2017 KCP\&L Order"), the Commission affirmed the Company's 9.50 percent ROE noting that "recent indicators of growth... may suggest an increased return" but found "the reduction of investment" risk associated with the approval of a fuel adjustment clause had an offsetting effect. ${ }^{3}$

Q: Please discuss the 2015 KCP\&L Order as it relates to your recommended ROE for the Company in this proceeding.

A: My recommendation takes into consideration various aspects of the Commission's findings in the 2015 KCP\&L Order. In particular, the Commission found that ROEs between 9.40 percent and 9.60 percent represented "accurate estimate[s] of the current market cost of capital for KCPL, ${ }^{4}$ and determined that an ROE of 9.50 percent was reasonable. ${ }^{5}$ However, since September 2015 when that order was issued, capital market conditions have changed, and those changes should be reflected in the market-based

[^2]return in this case. On balance, given the current capital market environment, business risks faced by the Company, and the Commission's findings in the 2015 and 2017 Orders, I believe my recommendation represents a proper (if not somewhat conservative) zone of reasonableness, and that the Company's market-based Cost of Equity falls within that range.

Q: How does your recommendation compare to recently authorized returns?
A: In both the 2015 and 2017 KCP\&L Orders, the Commission noted that it is appropriate to look to authorized ROEs in other jurisdictions to evaluate the reasonableness of ROE recommendations. ${ }^{6}$ As shown in Chart 1, below, my recommendation is highly consistent with recently authorized ROEs for vertically integrated electric utilities.

[^3] Chart 1: Authorized Returns ${ }^{7}$


Q: Please provide a brief overview of the analyses that led to your ROE recommendation.

A: Because all financial models are subject to various assumptions and constraints, equity analysts and investors tend to use multiple methods to develop their return requirements. I therefore relied on three widely-accepted approaches to develop my ROE recommendation: (1) the Discounted Cash Flow ("DCF") model, including the Constant Growth and Multi-Stage forms; (2) the Capital Asset Pricing Model ("CAPM"); and (3) the Bond Yield Plus Risk Premium approach. As discussed in Sections V, VI and VII, I considered the results of those methods in the context of both Company-specific, and general capital market factors. Based on those analyses, I conclude that a range of 9.75 percent to 10.50 percent represents reasonable estimates of the Company's Cost of Equity.

[^4]Q: How is the remainder of your Direct Testimony organized?
A: The remainder of my Direct Testimony is organized as follows:
Section III - Provides a summary of issues regarding Cost of Equity estimation in regulatory proceedings and discusses the regulatory guidelines pertinent to the development of the cost of capital;

Section IV - Explains my selection of the proxy group used to develop my analytical results;
$\underline{\text { Section V - Explains my analyses and the analytical bases for my ROE recommendation; }}$ Section VI - Provides a discussion of specific business risks and other considerations that have a direct bearing on the Company's Cost of Equity;

Section VII - Highlights the current capital market conditions and their effect on the Company's Cost of Equity;

Section VIII - Analyzes the Company's embedded Cost of Debt;
Section IX - Provides my analyses of the Company's capital structure and presents the overall rate of return;
$\underline{\text { Section X }}$ - Summarizes my conclusions and recommendations.

## III. SUMMARY OF ISSUES SURROUNDING COST OF EQUITY ESTIMATION IN REGULATORY PROCEEDINGS

Q: Before addressing the specific aspects of this proceeding, please provide an overview of the issues surrounding the Cost of Equity in regulatory proceedings generally.

A: In very general terms, the Cost of Equity is the return that investors require to make an equity investment in a firm. That is, investors will only provide funds to a firm if the
return that they expect is equal to, or greater than, the return that they require to accept the risk of providing funds to the firm. From the firm's perspective, that required return, whether it is provided to debt or equity investors, has a cost. Individually, we speak of the "Cost of Debt" and the "Cost of Equity." Together, they are referred to as the "Cost of Capital."

The Cost of Capital (including the costs of both debt and equity) is based on the economic principle of "opportunity costs." Investing in any asset, whether debt or equity securities, implies a forgone opportunity to invest in alternative assets. For any investment to be sensible, its expected return must be at least equal to the return expected on alternative, comparable investment opportunities. Because investments with like risks should offer similar returns, the opportunity cost of an investment should equal the return available on an investment of comparable risk.

Although both debt and equity have required costs, they differ in certain fundamental ways. Most noticeably, the Cost of Debt is contractually defined and can be directly observed as the interest rate or yield on debt securities. ${ }^{8}$ The Cost of Equity, on the other hand, is neither directly observable nor a contractual obligation. Rather, equity investors have a claim on cash flows only after debt holders are paid. The uncertainty (or risk) associated with those residual cash flows determines the Cost of Equity. Because equity investors bear the "residual risk," they take greater risks and require higher returns than debt holders. In that basic sense, equity and debt investors differ: They invest in different securities, face different risks, and require different returns.

Whereas the Cost of Debt can be directly observed, the Cost of Equity must be estimated or inferred based on market data and various financial models. As discussed
throughout my Direct Testimony, each of those models is subject to certain assumptions, which may be more or less applicable under differing market conditions. In addition, because the Cost of Equity is premised on opportunity costs, the models typically are applied to a group of "comparable" or "proxy" companies. The choice of models (including their inputs), the selection of proxy companies, and the interpretation of the model results all require the application of reasoned judgment. That judgment should consider data and information that is not necessarily included in the models themselves.

In the end, the estimated Cost of Equity should reflect the return that investors require in light of the subject company's risks, and the returns available on comparable investments. A given utility stock may require a higher return based on the risks to which it is exposed relative to other utilities. That is, simply because utilities are viewed as a "sector," that does not mean that all utilities require the same return. The assessment of relative risk, and its effect on the Cost of Equity necessarily requires the application of reasoned, experienced judgment applied to a variety of data, much of which is qualitative in nature.

Q: Please now provide a brief summary of the regulatory guidelines established for the purpose of determining the ROE.

A: The United States Supreme Court established the guiding principles for establishing a fair return for capital in two cases: (1) Bluefield Water Works and Improvement Co. v. Public Service Comm'n of West Virginia, 262 U.S. 679 (1923) ("Bluefield"); and (2) Federal Power Comm'n v. Hope Natural Gas Co., 320 U.S. 591 (1944) ("Hope"). In those cases, the Supreme Court recognized that the fair rate of return on equity should be: (1)

[^5]comparable to returns investors expect to earn on other investments of similar risk; (2) sufficient to assure confidence in the company's financial integrity; and (3) adequate to maintain and support the company's credit and to attract capital.

## Q: <br> Does Missouri precedent provide similar guidance?

A: Yes. In a prior order, the Commission cited the Hope and Bluefield decisions at some length and acknowledged its authority and responsibility to set "just and reasonable" rates for public utility service, stating that:

The standard for rates is "just and reasonable," a standard founded on constitutional provisions, as the United States Supreme Court has explained. But the Commission must also consider the customers. Balancing the interests of investor and consumer is not reducible to a single formula, and making pragmatic adjustments is part of the Commission's duty. Thus, the law requires a just and reasonable end, but does not specify a means. The Commission is charged with approving rate schedules that are as "just and reasonable" to consumers as they are to the utility. ${ }^{9}$

Based on those standards, the authorized ROE should provide the Company with the opportunity to earn a fair and reasonable return, and should enable efficient access to external capital under a variety of market conditions. ${ }^{10}$

In addition, the Missouri Court of Appeals provided the following guidance, citing a federal court's observation:

The cases also recognize that the fixing of rates is a matter largely of prophecy and because of this commissions, in carrying out their functions, necessarily deal in what are called 'zones of reasonableness'

[^6]the result of which is that they have some latitude in exercising this most difficult function. ${ }^{11}$

The Commission has found it appropriate to consider both quantitative and qualitative information when developing its zone of reasonableness, which has been viewed as a range within 100 basis points of the national average. ${ }^{12}$ Further, Missouri precedent notes that the authorized ROE must reflect the need to balance investor and consumer interests. ${ }^{13}$ Consistent with these precedents, I discuss throughout my Direct Testimony that the estimation of the market required ROE and the zone of reasonableness does not lend itself to a strict mathematical solution, as the Supreme Court recognized in Hope.

Q: Why is it important for a utility to be allowed the opportunity to earn a return adequate to attract equity capital at reasonable terms?

A: A return that is adequate to attract capital at reasonable terms enables the utility to provide service while maintaining its financial integrity. As discussed above, and in keeping with the Hope and Bluefield standards, that return should be commensurate with the returns expected elsewhere in the market for investments of equivalent risk. The consequence of the Commission's order in this case, therefore, should be to provide KCP\&L with the opportunity to earn a return on equity that is: (1) adequate to attract capital at reasonable terms; (2) sufficient to ensure its financial integrity; and (3) commensurate with returns on investments in enterprises having corresponding risks. To the extent KCP\&L is provided a reasonable opportunity to earn its market-based Cost of Equity, neither customers nor shareholders should be disadvantaged. In fact, a return that

[^7]is adequate to attract capital at reasonable terms enables the Company to provide safe, reliable electric utility service while maintaining its financial integrity.

## Q: How is the Cost of Equity estimated in regulatory proceedings?

A: The Cost of Equity is estimated by the use of various financial models. By their very nature, those models produce a range of results from which the ROE is estimated. Both practitioners and academics, however, recognize that financial models simply are tools to be used in the ROE estimation process, and that strict adherence to any single approach or to the specific results of any single approach can lead to flawed or misleading conclusions. That position is consistent with the Hope and Bluefield principle that it is the analytical result, as opposed to the methodology, that is controlling in arriving at ROE determinations. Thus, a reasonable ROE estimate appropriately considers alternative methodologies and the reasonableness of their individual and collective results in the context of observable, relevant market information.

## IV. PROXY GROUP SELECTION

Q: Why is it necessary to select a group of proxy companies to determine the Cost of Equity for the Company?

A: $\quad$ Since the ROE is a market-based concept, and KCP\&L is not a publicly traded entity, it is necessary to establish a group of comparable, publicly traded companies to serve as its "proxy." Even if the Company were a publicly traded entity, short-term events could bias its market value during a given period of time. A significant benefit of using a proxy group is that it moderates the effects of anomalous, temporary events associated with any one company.

Q: Does the selection of a proxy group suggest that analytical results will be tightly clustered around average (i.e., mean) results?

A: No. For example, the Constant Growth DCF approach defines the Cost of Equity as the sum of the expected dividend yield and projected long-term growth. Despite the care taken to ensure risk comparability, market expectations with respect to future risks and growth opportunities will vary from company to company. Therefore, even within a group of similarly-situated companies, it is common for analytical results to reflect a seemingly wide range. Consequently, the issue is how to estimate the Cost of Equity from within that range. Such a determination necessarily must consider a wide range of both quantitative and qualitative information.

## Q: Please provide a summary profile of KCP\&L.

A: KCP\&L, a wholly owned subsidiary of Great Plains Energy Incorporated ("GPE"), provides electric service to approximately 534,400 retail customers in Missouri and Kansas. ${ }^{14}$ KCP\&L's current long-term issuer credit rating from Standard \& Poor's ("S\&P") is BBB+ (outlook: Positive) and Baa1 (outlook: Stable) from Moody's Investors Service ("Moody's"). ${ }^{15}$

## Q: How did you select the companies included in your proxy group?

A: I began with the universe of companies that Value Line classifies as Electric Utilities, and applied the following screening criteria:

- I excluded companies that do not consistently pay quarterly cash dividends;
- I excluded companies that were not covered by at least two utility industry equity analysts;

14 See Great Plains Energy Inc., SEC Form 10-K for year-end December 31, 2016, at 10.

- I excluded companies that do not have investment grade senior unsecured bond and/or corporate credit ratings from S\&P;
- I excluded companies that were not vertically-integrated, i.e. utilities that own and operate regulated generation, transmission and distribution assets;
- I excluded any companies whose regulated operating income over the three most recently reported fiscal years comprised less than 60.00 percent of the respective totals for that company;
- I excluded any companies whose regulated electric operating income over the three most recently reported fiscal years represented less than 60.00 percent of total regulated operating income; and
- I eliminated companies that are currently known to be party to a merger, or other significant transaction.


## Q: Did you include GPE in your proxy group?

A: No. To avoid the circular logic that would otherwise occur, it has been my consistent practice to exclude the subject company (or its parent) from the proxy group. In any event, GPE would be excluded from my project group based on its announced merger with Westar Energy, Inc. ${ }^{16}$

## Q: What companies met those screening criteria?

A: The criteria discussed above resulted in a proxy group of the following 21 companies:

15 Source: S\&P Global Market Intelligence as of December 29, 2017.
16 SEC Form 8-K, Great Plains Energy Incorporated (July 9, 2017)

| Company | Ticker |
| :--- | :---: |
| ALLETE, Inc. | ALE |
| Alliant Energy Corporation | LNT |
| Ameren Corporation | AEE |
| American Electric Power Company, Inc. | AEP |
| Black Hills Corporation | BKH |
| CMS Energy Corporation | CMS |
| Dominion Energy, Inc. ${ }^{17}$ | D |
| DTE Energy Company | DTE |
| Duke Energy Corporation | DUK |
| El Paso Electric Company | EE |
| Hawaiian Electric Industries, Inc. | HE |
| IDACORP, Inc. | IDA |
| NorthWestern Corporation | NWE |
| OGE Energy Corp. | OTTR |
| Otter Tail Corporation | PNW |
| Pinnacle West Capital Corporation | PNM |
| PNM Resources, Inc. | POR |
| Portland General Electric Company | SO |
| Southern Company | WEC |
| WEC Energy Group, Inc. | XEL |
| Xcel Energy Inc. |  |

## V. COST OF EQUITY ESTIMATION

## 2 Q: Please briefly discuss the ROE in the context of the regulated rate of return.

3 A: Regulated utilities primarily use common stock and long-term debt to finance their 4 capital investments. The Weighted Average Cost of Capital weighs the cost of the

Table 1: Proxy Group Screening Results individual sources of capital by their respective book values. While the Cost of Debt can

[^8]be directly observed, the Cost of Equity is market-based and, therefore, must be estimated based on observable market information.

## Q: How is the required ROE determined?

A: I estimated the ROE using analyses based on market data to quantify a range of investor expectations of required equity returns. By their very nature, quantitative models produce a range of results from which the market required ROE must be estimated. As discussed throughout my Direct Testimony, that estimation must be based on a comprehensive review of relevant data and information, and does not necessarily lend itself to a strict mathematical solution. Consequently, the key consideration in determining the ROE is to ensure that the overall analysis reasonably reflects investors' view of the financial markets in general, and the subject company (in the context of the proxy companies) in particular.

Because the Cost of Equity is not directly observable, it must be estimated based on both quantitative and qualitative information. Although a number of empirical models have been developed for that purpose, all are subject to limiting assumptions or other constraints. Consequently, many finance texts recommend using multiple approaches to estimate the Cost of Equity. ${ }^{18}$ When faced with the task of estimating the Cost of Equity, analysts and investors are inclined to gather and evaluate as much relevant data as reasonably can be analyzed and, therefore, rely on multiple analytical approaches.

I also note that as a practical matter, no individual model is more reliable than all others under all market conditions. Therefore, it is both prudent and appropriate to use
multiple methodologies in order to mitigate the effects of assumptions and inputs associated with any single approach. As such, I have considered the results of the Constant Growth and Multi-Stage forms of the DCF model; the Capital Asset Pricing Model; and the Bond Yield Plus Risk Premium approach.

## A. Constant Growth Discounted Cash Flow Model

Q: Please more fully describe the Constant Growth DCF approach.
A: The Constant Growth DCF approach is based on the theory that a stock's current price represents the present value of all expected future cash flows. In its simplest form, the Constant Growth DCF model expresses the Cost of Equity as the discount rate that sets the current price equal to expected cash flows:

$$
P=\frac{D_{k}}{(1+k))^{2}}+\frac{D_{n}}{(1+k)^{2 / 2}}+\cdots+\frac{D_{n}}{(1+k)^{w}} \quad \text { Equation [1] }
$$

where $P$ represents the current stock price, $D_{1} \ldots D_{\infty}$ represent expected future dividends, and $k$ is the discount rate, or required ROE. Equation [1] is a standard present value calculation that can be simplified and rearranged into the familiar form:

$$
\mathrm{k}=\frac{D_{c}(1+\pi)}{p}+g \quad \text { Equation [2] }
$$

Equation [2] often is referred to as the "Constant Growth DCF" model, in which the first term is the expected dividend yield and the second term is the expected long-term annual growth rate.

18 See, e.g., Eugene Brigham, Louis Gapenski, Financial Management: Theory and Practice at 341 (7th ed. 1994); Tom Copeland, Tim Koller and Jack Murrin, Valuation: Measuring and Managing the Value of Companies, at 214 (3rd ed. 2000).

## Q: What assumptions are inherent in the Constant Growth DCF model?

A: The Constant Growth DCF model assumes: (1) a constant average annual growth rate for earnings and dividends; (2) a stable dividend payout ratio; (3) a constant Price to Earnings multiple; and (4) a discount rate greater than the expected growth rate.

Q: What market data did you use to calculate the dividend yield in your Constant Growth DCF model?

A: The dividend yield is based on the proxy companies' current annualized dividend, and average closing stock prices over the 30-, 90-, and 180-trading day periods as of December 29, 2017.

Q: Why did you use three averaging periods to calculate an average stock price?
A: I did so to ensure that the model's results are not skewed by anomalous events that may affect stock prices on any given trading day. At the same time, the averaging period should be reasonably representative of expected capital market conditions over the long term. In my view, using 30 -, 90 -, and 180-day averaging periods reasonably balances those concerns.

Q: Did you make any adjustments to the dividend yield to account for periodic growth in dividends?

A: Yes, I did. Since utility companies tend to increase their quarterly dividends at different times throughout the year, it is reasonable to assume that dividend increases will be evenly distributed over calendar quarters. Given that assumption, it is appropriate to calculate the expected dividend yield by applying one-half of the long-term growth rate to the current dividend yield. That adjustment ensures that the expected dividend yield is,
on average, representative of the coming twelve-month period, and does not overstate the dividends to be paid during that time.

## Q: Is it important to select appropriate measures of long-term growth in applying the DCF model?

A: Yes. In its Constant Growth form, the DCF model (i.e., as presented in Equation [2] above) assumes a single growth estimate in perpetuity. Accordingly, in order to reduce the long-term growth rate to a single measure, one must assume a fixed payout ratio, and the same constant growth rate for earnings per share ("EPS"), dividends per share, and book value per share. Since dividend growth can only be sustained by earnings growth, the model should incorporate a variety of measures of long-term earnings growth. That can be accomplished by averaging those measures of long-term growth that tend to be least influenced by capital allocation decisions that companies may make in response to near-term changes in the business environment. Because such decisions may directly affect near-term dividend payout ratios, estimates of earnings growth are more indicative of long-term investor expectations than are dividend growth estimates. For the purposes of the Constant Growth DCF model, therefore, growth in EPS represents the appropriate measure of long-term growth.

Q: Please summarize the findings of academic research on the appropriate measure for estimating equity returns using the DCF model.

A: The relationship between various growth rates and stock valuation metrics has been the subject of much academic research. ${ }^{19}$ As noted over 40 years ago by Charles Phillips in The Economics of Regulation:

For many years, it was thought that investors bought utility stocks largely on the basis of dividends. More recently, however, studies indicate that the market is valuing utility stocks with reference to total per share earnings, so that the earnings-price ratio has assumed increased emphasis in rate cases. ${ }^{20}$

Philips' conclusion continues to hold true. Subsequent academic research has clearly and consistently indicated that measures of earnings and cash flow are strongly related to returns, and that analysts' forecasts of growth are superior to other measures of growth in predicting stock prices. ${ }^{21}$ For example, Vander Weide and Carleton state that, "[our] results $\ldots$ are consistent with the hypothesis that investors use analysts' forecasts, rather than historically oriented growth calculations, in making stock buy-and-sell decisions. ${ }^{, 22}$ Other research specifically notes the importance of analysts' growth estimates in determining the Cost of Equity, and in the valuation of equity securities. Dr. Robert Harris noted that "a growing body of knowledge shows that analysts' earnings forecast are indeed reflected in stock prices." Citing Cragg and Malkiel, Dr. Harris notes that those authors "found that the evaluations of companies that analysts make are the

[^9]sorts of ones on which market valuation is based."23 Similarly, Brigham, Shome and Vinson noted that "evidence in the current literature indicates that (i) analysts' forecasts are superior to forecasts based solely on time series data; and (ii) investors do rely on analysts' forecasts. ${ }^{, 24}$

To that point, the research of Carleton and Vander Weide demonstrates that earnings growth projections have a statistically significant relationship to stock valuation levels, while dividend growth rates do not. ${ }^{25}$ Those findings suggest that investors form their investment decisions based on expectations of growth in earnings, not dividends. Consequently, earnings growth, not dividend growth, is the appropriate estimate for the purpose of the Constant Growth DCF model.

## Q: Please summarize your inputs to the Constant Growth DCF model.

A: I applied the DCF model to the proxy group of integrated electric utility companies using the following inputs for the price and dividend terms:

- The average daily closing prices for the 30 -trading days, 90 -trading days, and 180-trading days ended December 29, 2017, for the term $\mathrm{P}_{0}$; and
- The annualized dividend per share as of December 29, 2017, for the term $\mathrm{D}_{0}$. I then calculated my DCF results using each of the following growth terms:
- The Zacks consensus long-term earnings growth estimates;
- The First Call consensus long-term earnings growth estimates; and

[^10]- The Value Line long-term earnings growth estimates. ${ }^{26}$

Q: In the 2015 KCP\&L Order, the Commission suggested that your Constant Growth DCF results were based on unsustainably high growth rates. ${ }^{27}$ Do you believe the EPS growth rates used in your Direct Testimony in this proceeding are too high?

A: No, I do not. First, from a practical standpoint, the Constant Growth form of the DCF model is subject to certain limiting assumptions, in particular, that expected growth rates will continue in perpetuity. It is for this reason that I have also provided a Multi-Stage DCF analysis below in Subsection $V(B)$.

Second, as discussed in more detail below, the average long-term growth rate in GDP has been 6.14 percent. In that regard, the median growth rate in my Constant Growth DCF analysis of 5.17 percent is reasonable relative to historical measures. ${ }^{28}$ That median growth rate is somewhat below the long-term expected GDP growth rate in my Multi-Stage DCF analysis (see Schedule RBH-2).

Finally, as discussed above, consensus EPS growth rate forecasts are the appropriate measure of expected growth because earnings growth enables both dividend and book value growth, and investors rely on analysts' forecasts. As such, I believe the growth rates used in my Constant Growth DCF model are reasonable, while being consistent with academic research, and historical and expected measures of long-term growth.

[^11]
## Q: How did you calculate the DCF results?

A: For each proxy company, I calculated the mean, mean high, and mean low results. For the mean result, I combined the average of the EPS growth rate estimates reported by Value Line, Zacks, and First Call with the subject company's dividend yield for each proxy company and then calculated the average result for those estimates. I calculated the high DCF result by combining the maximum EPS growth rate estimate as reported by Value Line, Zacks, and First Call with the subject company's dividend yield. The mean high result simply is the average of those estimates. I used the same approach to calculate the low DCF result, using instead the minimum of the Value Line, Zacks, and First Call estimate for each proxy company, and calculating the average result for those estimates.

## Q: Do you have any concerns with the Constant Growth DCF model under current

 market conditions?A: Yes. The Constant Growth DCF model is predicated on a number of assumptions, one of which is that the Price to Earnings ("P/E") ratio will remain constant, in perpetuity. Because the utility sector $\mathrm{P} / \mathrm{E}$ ratios have expanded to the point that they recently have exceeded both their long-term average and the market $\mathrm{P} / \mathrm{E}$ ratio, the Constant Growth DCF model's results should be viewed with caution. As such, it is appropriate to consider additional methods, such as the Multi-Stage DCF model, CAPM approach, and the Bond Yield Plus Risk Premium model.

## Q: What are the results of your Constant Growth DCF analysis?

A: My Constant Growth DCF results are summarized in Table 2, below (see also Schedule RBH-1).

Table 2: Constant Growth DCF Results ${ }^{29}$

|  | Mean Low | Mean | Mean High |
| :--- | :---: | :---: | :---: |
| 30-Day Average | $7.39 \%$ | $8.28 \%$ | $9.22 \%$ |
| 90-Day Average | $7.42 \%$ | $8.31 \%$ | $9.25 \%$ |
| 180-Day Average | $7.49 \%$ | $8.38 \%$ | $9.32 \%$ |

As noted earlier, the Constant Growth DCF model is subject to a number of assumptions that likely are not consistent with current market conditions. As also discussed later in my Direct Testimony, other methods more directly reflect the risk premium required by investors in response to such risks. On balance, it is my view that the Constant Growth DCF method should be given less weight than other methods in establishing the Company's ROE.

Q: With those points in mind, how did you reflect the Constant Growth DCF results in your ROE range and recommendation?

A: I first recognized that the model's mean, and mean low results are well below a reasonable estimate of the Company's Cost of Equity. For example, of the 1,541 electric utility rate cases surveyed by Regulatory Research Associates that disclosed the awarded ROE since 1980, only one included an authorized ROE of 9.00 percent or lower for a vertically integrated electric utility. On that basis alone, the mean and mean low results are highly improbable.

I also recognize that whereas the Constant Growth DCF model essentially assumes that existing capital market conditions will remain constant, Risk Premiumbased methods (discussed later in this Section) directly reflect the changing capital
market environment (see Section VII). Because it is important to reflect the results of different models, and the mean and mean low Constant Growth DCF results are farremoved from recently authorized returns, I concluded that they should be given less weight than other methods in determining the Company's ROE.

## B. Multi-Stage DCF Model

## Q: What other forms of the DCF model have you used?

A: To address certain limiting assumptions underlying the Constant Growth form of the DCF model, I also considered the Multi-Stage (three-stage) DCF Model. The MultiStage model, which is an extension of the Constant Growth form, enables the analyst to specify growth rates over three distinct stages. As with the Constant Growth form of the DCF model, the Multi-Stage form defines the Cost of Equity as the discount rate that sets the current price equal to the discounted value of future cash flows. Unlike the Constant Growth form, however, the Multi-Stage model must be solved in an iterative fashion.

## Q: Please generally describe the structure of your Multi-Stage DCF model.

A: The Multi-Stage DCF model sets the subject company's stock price equal to the present value of future cash flows received over three "stages" (e.g., Years 1 to 5 ; Years 5 to 10; Year 11 and beyond). In the first two stages, "cash flows" are defined as projected dividends. In the third stage, "cash flows" equal both dividends and the expected price at which the stock will be sold at the end of the period (i.e., the "terminal price"). I calculated the terminal price based on the Gordon model, ${ }^{30}$ which defines the price as the expected dividend divided by the difference between the Cost of Equity (i.e., the discount

[^12]rate) and the long-term expected growth rate. In essence, the terminal price is defined by the present value of the remaining "cash flows" in perpetuity. In each of the three stages, the dividend is the product of the projected earnings per share and the expected dividend payout ratio. A summary description of the model is provided in Table 3 (below).

Table 3: Multi-Stage DCF Structure

| Stage | 0 | 1 | 2 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| Cash Flow Component | Initial Stock Price | Expected Dividend | Expected Dividend | Expected Dividend + Terminal Value |
| Inputs | Stock Price <br> Earnings Per <br> Share <br> ("EPS"); <br> Dividends <br> Per Share <br> ("DPS") | Expected EPS; <br> Expected DPS | Expected EPS; <br> Expected DPS | Expected EPS; <br> Expected DPS; <br> Terminal Value |
| Assumptions | 30-, 90-, and 180-day average stock price | EPS Growth Rate; Payout Ratio | Growth Rate <br> Change; <br> Payout Ratio Change | Long-term Growth Rate; Long-term Payout Ratio |

## Q: What are the analytical benefits of your three-stage DCF model?

A: The principal benefits relate to the flexibility provided by the model's formulation. Since the model provides the ability to specify near, intermediate and long-term growth rates, for example, it avoids the sometimes limiting assumption that the subject company will grow at the same, constant rate in perpetuity. In addition, by calculating the dividend as the product of earnings per share and the dividend payout ratio, the model enables analysts to reflect assumptions regarding the timing and extent of changes in the payout ratio to reflect, for example, increases or decreases in expected capital spending, or
transition from current payout levels to long-term expected levels. In that regard, because the model relies on multiple sources of earnings growth rate assumptions, it is not limited to a single source, such as Value Line, for all inputs, and mitigates the potential bias associated with relying on a single source of growth estimates. ${ }^{31}$

The model also enables the analyst to assess the reasonableness of the inputs and results by reference to certain market-based metrics. For example, the stock price estimate can be divided by the expected earnings per share in the final year to calculate an average $\mathrm{P} / \mathrm{E}$ ratio. Similarly, the terminal $\mathrm{P} / \mathrm{E}$ ratio can be divided by the terminal growth rate to develop a Price to Earnings Growth ("PEG") ratio. To the extent that either the projected P/E or PEG ratios are inconsistent with either historical or expected levels, it may indicate incorrect or inconsistent assumptions within the balance of the model.

## Q: Please summarize your inputs to the Multi-Stage DCF model.

A: I applied the Multi-Stage model to the proxy group described earlier in my Direct Testimony. My assumptions with respect to the various model inputs are described in Table 4 (below).
${ }^{31}$ See Harris and Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management at 21 (Summer 1992).

| Stage | Initial | First | Transition | Terminal |
| :--- | :--- | :--- | :--- | :--- |
| Stock Price | 30-, 90-, and <br> 180 -day <br> average stock <br> price as of <br> December 29, <br> 2017 |  |  |  |
| Earnings <br> Growth | 2016 actual <br> EPS escalated <br> by Period 1 <br> growth rate | EPS growth <br> as average of <br> (1) Value <br> Line; (2) <br> Zacks; and <br> (3) First Call | Transition to <br> Long-term <br> GDP growth | Long-term <br> GDP growth |
| Payout Ratio | Value Line <br> company- <br> specific | Value Line <br> company- <br> specific | Transition to <br> long-term <br> industry <br> payout ratio | Long-term <br> expected <br> payout ratio |
| Terminal | Value |  |  | Expected <br> dividend in <br> final year <br> divided by <br> solved Cost <br> of Equity less <br> long-term <br> growth rate |

Table 4: Multi-Stage DCF Model Assumptions

Q: How did you calculate the long-term GDP growth rate?
A: The long-term growth rate of 5.38 percent is based on the real GDP growth rate of 3.22 percent from 1929 through 2016, and an inflation rate of 2.09 percent. The GDP growth rate is calculated as the compound growth rate in the chain-weighted GDP for the period from 1929 through 2016. ${ }^{32}$ The rate of inflation of 2.09 percent is an average of two components: (1) the compound annual forward rate starting in ten years (i.e., 2027, which is the beginning of the terminal period) based on the 30-day average spread between
yields on long-term nominal Treasury Securities and long-term Treasury Inflation Protected Securities, known as the "TIPS spread" of 1.97 percent; ${ }^{33}$ and (2) and the projected Blue Chip Financial Forecast of CPI for 2024 - 2028 of 2.20 percent. ${ }^{34}$

I averaged these two measures of inflation because nominal Treasury yields are related to inflation, which includes the effect of commodities such as oil, that may cause the current TIPS spread to somewhat understate long-term expected inflation. To account for that effect, I also considered the 2.20 percent long-term projected rate of inflation as provided by Blue Chip Financial Forecast. ${ }^{35}$ My long-term inflation rate, therefore, is the average of those two estimates, or 2.09 percent.

## Q: Have you compared your long-term growth rate to historical measures?

A: Yes, I have. From 1929 through 2016, the long-term geometric average growth in nominal GDP was 6.14 percent. The arithmetic average annual growth rate over that time was 6.37 percent. Considered in that context, my 5.38 percent assumption is approximately 100 basis points below the long-term average. I also calculated the fiveyear average annual growth rates over the 1929 to 2016 period. I then arranged that data in histograms to provide a perspective of how frequently various levels of growth have occurred.

As Chart 2 demonstrates, average annual growth of 5.38 percent and above has been observed frequently. When measured over five-year periods, average annual growth exceeded 5.38 percent in 58 of 83 periods. That is, my result falls in approximately the

[^13]$30^{\text {th }}$ percentile of observed growth rates in GDP. As such, I believe my long-term growth estimate is reasonable, if not conservative.

Chart 2: Average Annual GDP Growth Measured over Five-Year Periods ${ }^{36}$


## Q: Have you compared other projections of GDP to historical measures?

A: Yes, I have. Specifically, I reviewed GDP projections from the Social Security Administration ("SSA") and the Energy Information Administration ("EIA"). SSA forecasts a long-term GDP growth rate of 4.24 percent between 2026 and 2090 under its Intermediate scenario, ${ }^{37}$ and EIA forecasts the GDP growth rate between 2016 and 2050 to be 4.24 percent in its Reference case. ${ }^{38}$

36 Bureau of Economic Analysis, "Current-Dollar and 'Real' Gross Domestic Product," (Dec. 29, 2017 update).
${ }^{37}$ Tables V.B. 1 and V.B. 2 of the 2017 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND FEDERAL DISABILITY INSURANCE TRUST FUNDS includes "Intermediate" scenario assumptions of 2.20 percent and 2.00 percent for the GDP Price Index, and Real GDP Growth, respectively, over the period 2026 through 2090. When combined, those projections indicate nominal GDP growth of 4.24 percent.
38 Energy Information Administration, 2017 Annual Energy Outlook, Table 20. EIA forecasts the GDP Price Index, and Real GDP growth to be 2.10 percent. When combined, those assumptions indicate nominal GDP growth of 4.24 percent.

Because they are perpetual, terminal growth rates that substantially deviate from the long-term historical average, they should be viewed with considerable caution. As Chart 2 demonstrates, average annual growth as low as 4.24 percent has been observed very infrequently. In fact, average annual growth exceeded 4.24 percent in 71 of 83 fiveyear periods, which represents the $15^{\text {th }}$ percentile of observed results. While the longterm growth rate of 5.38 percent used in my Multi-Stage DCF model represents a conservative measure of the GDP growth, the SSA and EIA forecasts are over 110 basis points lower. As such, I believe my estimate of the long-term growth rate represents a more reasonable measure of perpetual growth in the final stage of my Multi-Stage DCF model.

Furthermore, both SSA and EIA provide alternative scenarios in addition to their base case scenarios (Intermediate and Reference, respectively). SSA's Low-cost and High-cost scenarios produce a range of nominal GDP forecasts from 2.82 percent to 5.68 percent. ${ }^{39}$ EIA develops nine scenarios which produce a range of nominal GDP forecasts of 4.14 percent to 4.95 percent. ${ }^{40}$ My estimated long-term growth rate is within the ranges of scenarios produced by SSA and somewhat above EIA.

[^14]
## Q: What were your specific assumptions with respect to the payout ratio?

A: As noted in Table 4, for the first two periods, I relied on the first year and long-term projected payout ratios reported by Value Line ${ }^{41}$ for each of the proxy companies. I then assumed that by the end of the second period (i.e., the end of year 10), the payout ratio will converge to the historical industry average ratio of 65.91 percent. ${ }^{42}$

## Q: What was your principal assumption regarding the terminal value?

A: Although I performed a series of analyses in which the terminal value is calculated based on the assumed long-term nominal GDP growth rate, ${ }^{43}$ I also performed a series of analyses in which the terminal value is based on the current $\mathrm{P} / \mathrm{E}$ ratio. ${ }^{44}$ The results of those analyses are shown in Table 5, below. For the reasons discussed below, I believe that assumption is reasonable and produces reliable results.

Table 5: Multi-Stage DCF Model Results ${ }^{45}$

|  | Mean Low | Mean | Mean High |
| :---: | :---: | :---: | :---: |
| 30-Day Average | $8.82 \%$ | $9.36 \%$ | $9.93 \%$ |
| 90-Day Average | $8.92 \%$ | $9.46 \%$ | $10.03 \%$ |
| 180-Day Average | $9.13 \%$ | $9.67 \%$ | $10.24 \%$ |

## Q: Did you undertake any additional analyses to support your recommendation?

A: Yes. As noted earlier, I also applied the CAPM and Risk Premium approaches.

[^15]
## C. Capital Asset Pricing Model

## Q: Please briefly describe the general form of the CAPM.

A: The CAPM is a risk premium method that estimates the Cost of Equity for a given security as a function of a risk-free return plus a risk premium (to compensate investors for the non-diversifiable or "systematic" risk of that security). As shown in Equation [3], the CAPM is defined by four components, each of which theoretically must be a forwardlooking estimate:

$$
k=r_{p}+p\left(r_{m}-r_{p}\right) \quad \text { Equation [3] }
$$

where:

$$
\begin{aligned}
& k=\text { the required market ROE for a security; } \\
& \beta=\text { the Beta coefficient of that security; } \\
& r_{f}=\text { the risk-free rate of return; and } \\
& r_{m}=\text { the required return on the market as a whole. }
\end{aligned}
$$

In Equation [3], the term $\left(r_{m}-r_{f}\right)$ represents the Market Risk Premium. ${ }^{46}$ According to the theory underlying the CAPM, since unsystematic risk can be diversified away by adding securities to investment portfolios, investors should be concerned only with systematic or non-diversifiable risk. Non-diversifiable risk is measured by the Beta coefficient, which is defined as:

$$
\beta_{\mathrm{j}}=\frac{a_{ل}}{\sigma_{\mathrm{m}}} \times \rho_{j \mathrm{~m}} \quad \text { Equation [4] }
$$

Where $\sigma_{j}$ is the standard deviation of returns for company " $j$, " $\sigma_{m}$ is the standard deviation of returns for the broad market (as measured, for example, by the S\&P 500 Index), and $\rho_{j, m}$ is the correlation of returns in between company $j$ and the broad market.

The Beta coefficient therefore represents both relative volatility (i.e., the standard deviation) of returns, and the correlation in returns between the subject company and the overall market.

Intuitively, higher Beta coefficients indicate that the subject company's returns have been relatively volatile, and have moved in tandem with the overall market. Consequently, if a company has a Beta coefficient of 1.00 , it is as risky as the market and does not provide any diversification benefit.

## Q: What assumptions did you include in your CAPM analysis?

A: Since utility equity is a long duration investment, I used two different measures of the risk-free rate: (1) the current 30-day average yield on 30-year Treasury bonds (i.e., 2.77 percent); and (2) the projected 30-year Treasury yield (i.e., 3.32 percent).

## Q: Why have you relied upon the 30-year Treasury yield for your CAPM analysis?

A: In determining the security most relevant to the application of the CAPM, it is important to select the term (or maturity) that best matches the life of the underlying investment. Electric utilities typically are long-duration investments and, as such, the 30-year Treasury yield is more suitable for the purpose of calculating the Cost of Equity.

Q: Please describe your ex-ante, or forward-looking, approach to estimating the Market Risk Premium ("MRP").

A: The approach is based on the market required return, less the current 30-year Treasury yield. To estimate the market required return, I calculated the market capitalization weighted average ROE based on the Constant Growth DCF model. To do so, I relied on

46 The Market Risk Premium is defined as the incremental return of the market portfolio over the risk-free rate.
data from two sources: (1) Bloomberg; and (2) Value Line. ${ }^{47}$ With respect to Bloomberg-derived growth estimates, I calculated the expected dividend yield (using the same one-half growth rate assumption described earlier), and combined that amount with the projected earnings growth rate to arrive at the market capitalization weighted average DCF result. I performed that calculation for each of the S\&P 500 companies for which Bloomberg provided consensus growth rates. I then subtracted the current 30-year Treasury yield from that amount to arrive at the market DCF-derived ex-ante market risk premium estimate. In the case of Value Line, I performed the same calculation, again using all companies for which five-year earnings growth rates were available. The results of those calculations are provided in Schedule RBH-3.

As discussed above, each input to the CAPM should be forward-looking. Witnesses in prior rate cases have relied on historical measures of the MRP. ${ }^{48}$ While it may be instructive to review historical MRPs to inform the reasonableness of an ex-ante estimate (as I have done below), they do not include investors' expectations, and therefore are not appropriate for use in the CAPM. Simply relying on the historical MRP may produce results that are inconsistent with investor sentiment and current conditions in capital markets. As such, I believe my ex-ante approach is reasonable.

## Q: Have you undertaken any analyses to determine the reasonableness of the ex-ante MRP calculation?

A: Yes, I have considered how often various ranges of MRPs have been observed over the 1926 to 2016 period. To perform that analysis, I gathered the annual Market Risk Premia reported by Duff \& Phelps and produced a histogram of those observations. The results

[^16]of that analysis, which are presented in Chart 3, demonstrate that MRPs in the range of approximately 11.45 percent (the average of my MRP estimates) ${ }^{49}$ and higher occurred quite often. In fact, there is approximately a 58.00 percent probability that an MRP of at least 11.45 percent will occur in any given year.

Chart 3: Frequency Distribution of MRP, 1926-2016 ${ }^{50}$


Q: How did you apply your expected Market Risk Premium and risk-free rate estimates?

A: I relied on the ex-ante Market Risk Premia discussed above, together with the current and near-term projected 30-year Treasury yields as inputs to my CAPM analyses.

## Q: What Beta coefficient did you use in your CAPM model?

A: As shown in Schedule RBH-4, I considered the Beta coefficients reported by two sources: Bloomberg and Value Line. While both of those services adjust their calculated

48 See, e.g., Staff Report, Revenue Requirement Cost of Service at 39-42, Kansas City Power \& Light Co., Case No. ER-2016-0285 (Nov. 30, 2016).
49 See Schedule RBH-3.
50 Duff \& Phelps, 2017 Stocks, Bonds, Bills and Inflation Yearbook, Table A-1.

|  | Bloomberg Derived Market Risk Premium | Value Line Derived Market Risk Premium |
| :---: | :---: | :---: |
| Average Bloomberg Beta Coefficient |  |  |
| Current 30-Year Treasury (2.77\%) | 8.95\% | 9.45\% |
| Near Term Projected 30-Year Treasury (3.32\%) | 9.50\% | 9.99\% |
| Average Value Line Beta Coefficient |  |  |
| Current 30-Year Treasury (2.77\%) | 10.61\% | 11.24\% |
| Near Term Projected 30-Year Treasury (3.32\%) | 11.15\% | 11.78\% |

(or "raw") Beta coefficients to reflect the tendency of the Beta coefficient to regress to the market mean of 1.00 , Value Line calculates the Beta coefficient over a five-year period, while Bloomberg's calculation is based on two years of data.

## Q: What are the results of your CAPM analysis?

A: As shown in Table 6 the CAPM analyses suggest an ROE range of 8.95 percent to 11.78 percent (see also Schedule RBH-5).

Table 6: Summary of CAPM Results ${ }^{51}$

## D. Bond Yield Plus Risk Premium Approach

Q: Please generally describe the Bond Yield Plus Risk Premium approach.
This approach is based on the basic financial tenet that equity investors bear the residual risk associated with ownership and therefore require a premium over the return they would have earned as a bondholder. That is, since returns to equity holders are more risky than returns to bondholders, equity investors must be compensated for bearing that additional risk. Risk premium approaches, therefore, estimate the Cost of Equity as the sum of the equity risk premium and the yield on a particular class of bonds. As noted in
my discussion of the CAPM, since the equity risk premium is not directly observable, it typically is estimated using a variety of approaches, some of which incorporate ex-ante or forward-looking estimates of the Cost of Equity, and others that consider historical or expost estimates. An alternative approach is to use actual authorized returns for electric utilities to estimate the Equity Risk Premium.

## Q: Please explain how you performed your Bond Yield Plus Risk Premium analysis.

A: As suggested above, I first defined the Risk Premium as the difference between the authorized ROE and the then-prevailing level of long-term (i.e., 30-year) Treasury yield. I then gathered data for 1,541 electric utility rate proceedings between January 1980 and December 29, 2017. In addition to the authorized ROE, I also calculated the average period between the filing of the case and the date of the final order (the "lag period"). In order to reflect the prevailing level of interest rates during the pendency of the proceedings, I calculated the average 30 -year Treasury yield over the average lag period (approximately 200 days).

Because the data cover a number of economic cycles, the analysis also may be used to assess the stability of the Equity Risk Premium. Prior research, for example, has shown that the Equity Risk Premium is inversely related to the level of interest rates. That analysis is particularly relevant given the relatively low, but increasing level of current Treasury yields.

51 See Schedule RBH-5.

How did you analyze the relationship between interest rates and the Equity Risk Premium?

A: The basic method used was regression analysis, in which the observed Equity Risk Premium is the dependent variable, and the average 30 -year Treasury yield is the independent variable. Relative to the long-term historical average, the analytical period includes interest rates and authorized ROEs that are quite high during one period (i.e., the 1980s) and that are quite low during another (i.e., the 2008 Great Recession and the postLehman bankruptcy period). To account for that variability, I used the semi-log regression, in which the Equity Risk Premium is expressed as a function of the natural $\log$ of the 30 -year Treasury yield:

$$
R P=\alpha+\beta\left(\operatorname{LN}\left(T_{a 0}\right)\right) \text { Equation [5] }
$$

As shown on Chart 4 (below), the semi-log form is useful when measuring an absolute change in the dependent variable (in this case, the Risk Premium) relative to a proportional change in the independent variable (the 30-year Treasury yield). Chart 4: Equity Risk Premium ${ }^{52}$


As Chart 4 illustrates, over time there has been a statistically significant, negative relationship between the 30 -year Treasury yield and the Equity Risk Premium. Consequently, simply applying the long-term average Equity Risk Premium of 4.61 percent would significantly understate the Cost of Equity and produce results well below any reasonable estimate. Based on the regression coefficients in Chart 4, however, the implied ROE is between 9.95 percent and 10.25 percent (see Table 7 and Schedule RBH6).

Table 7: Summary of Bond Yield Plus Risk Premium Results ${ }^{53}$

|  | Return on Equity |
| :--- | :---: |
| Current 30-Year Treasury (2.77\%) | $9.95 \%$ |
| Near Term Projected 30-Year Treasury (3.32\%) | $10.01 \%$ |
| Long Term Projected 30-Year Treasury (4.20\%) | $10.25 \%$ |

[^17]Q: Has the Commission considered authorized ROEs in other jurisdictions in setting the authorized ROE for a subject company?

A: Yes, it has. For example, in the 2015 KCP\&L Order the Commission determined that recently authorized ROEs for utilities throughout the United States supported its authorized ROE:

KCPL must compete with other utilities all over the country for the same capital. Therefore, the industry authorized return on equity provides a reasonableness test for the recommendations offered by the return on equity experts. ${ }^{54}$

The Bond Yield Plus Risk Premium approach relies on the same data over an approximately 36 -year period, while also considering the inverse relationship between Treasury yields and the Equity Risk Premium. That is, the Bond Yield Plus Risk Premium approach provides additional information beyond a simple average of authorized ROEs in that it accounts for different market environments and considers the long-term relationship between the inputs to the analysis.

Q: Have you provided an alternative Bond Yield Plus Risk Premium analysis to account for how market conditions may affect the inverse relationship between interest rates and the Equity Risk Premium?

A: Yes. To address the prospect that the market conditions affect the relationship between interest rates and the Equity Risk Premium, I first calculated the "credit spread," or the difference between the Moody's A-Utility Bond yield and the 30 -Year Treasury yield. To reflect the risk of equity investments, I calculated the market volatility as measured by the CBOE Volatility Index (the "VIX") since 1990, the first year for which data was available. I then performed a regression analysis in which the Equity Risk Premium is
the dependent variable, and Treasury yields, credit spreads, and the VIX were the explanatory variables. There were three principal findings from those analyses (see Schedule RBH-7):

1. Credit spreads and the VIX do not negate the statistically significant inverse relationship between Treasury yields and the Equity Risk Premium.
2. There is a high degree of correlation between credit spreads and the VIX, indicating that the two move closely together. That is, the "relative risk" of the two is not a meaningful factor.
3. Based on the current, and projected Treasury yields, the expected ROE falls in the range of 9.59 percent to 9.70 percent. Those results are only slightly below my recommended range, and are not far removed from the results of my Bond Yield Plus Risk Premium analysis (see Schedule RBH-7).

Lastly, please note that neither the VIX nor credit spreads added significantly to the explanatory value of the regression equations.

## VI. BUSINESS RISKS AND OTHER CONSIDERATIONS

## Q: Do the mean DCF, CAPM, and Bond Yield Plus Risk Premium results for the proxy

 group provide an appropriate estimate of the Cost of Equity for KCP\&L?A: No, the mean results do not necessarily provide an appropriate estimate of the Company's Cost of Equity. In my view, there are additional factors that must be taken into consideration when determining where the Company's Cost of Equity falls within the range of results. Those factors include: (1) the regulatory environment in which the

[^18]Company operates; (2) the Company's generation portfolio; and (3) the Company's capital expenditure plans. Those risk factors, which are discussed below, should be considered with respect to their overall effect on KCP\&L's risk profile and therefore its Cost of Equity.

## A. Regulatory Environment

Q: How does the regulatory environment in which a utility operates affect its access to and cost of capital?

A: The regulatory environment can significantly affect both the access to and the cost of capital in several ways. First, the proportion and cost of debt capital available to utility companies are influenced by rating agencies' assessment of the regulatory environment. In addition, it is important to recognize that regulatory decisions regarding the authorized ROE and capital structure have direct consequences for the subject utility's internal cash flow generation (sometimes referred to as "Funds from Operations" or "FFO"). Since credit ratings are intended to reflect the ability to meet financial obligations as they come due, the ability to generate the cash flows required to meet those obligations (and to provide an additional amount for unexpected events) is of critical importance to debt investors. Two of the most important metrics used to assess that ability are the ratios of FFO to debt, and FFO to interest expense, both of which are directly affected by regulatory decisions regarding the appropriate rate of return and capital structure.

Investors recognize that a reasonable allowed ROE that is subject to earnings attrition due to unfavorable regulatory or economic factors does not provide any assurance that the utility actually will recover its costs or earn a reasonable return. The
authorized ROE affects not only the cash flow-related metrics that measure financial strength, but also provides an indication of the degree of regulatory support, as well as risk associated with a given utility and jurisdiction. It is, therefore, an important measure of regulatory support and financial integrity from several perspectives.

## Q: Have you compared KCP\&L's regulatory risks to electric utilities in other

 jurisdictions?A: Regulatory Research Associates ("RRA") rates the Commission as having a "Below Average / 1" regulatory environment from an investor viewpoint. ${ }^{55}$ In fact, fewer than 10.00 percent of regulatory bodies have lower ratings from RRA. ${ }^{56}$ Any further decrease in the perception of regulatory supportiveness may cause investors' assessment of KCP\&L's regulatory risk (and therefore its business risk and S\&P Business Risk rating) to become more negative, further increasing KCP\&L's overall cost of capital.

Q: Are there issues associated with regulatory lag that also are a consideration for equity investors?

A: Yes, there are. As noted in an April 2013 report by Regulatory Research Associates, Missouri is one of only five states that prohibits utilities from including Construction Work in Progress ("CWIP") in the rate base. ${ }^{57}$ As a consequence, the Company's ability to maintain its revenue and cash flow is disadvantaged relative to others that either have the ability to include CWIP in rate base during general rate cases (and therefore earn a cash return on that investment), or are provided a more timely cash return through adjustment clauses. When the revenue per dollar of assets decreases, the earned return on

56 Regulatory Research Associates, calculated as of December 29, 2017.
common equity also will decrease. Because that earned return is a principal element of cash flow, the dilution in earnings resulting from the untimely recovery of capital investments diminishes the Company's financial profile and increases its relative risk.

In addition, rates for Missouri utilities are usually set based on an historical test year, with limited "known-and-measurable" changes. ${ }^{58}$ In contrast, other utilities, including utilities in the proxy group, have the ability to recover rate base additions through forecast test years or alternative rate plans. As Regulatory Research Associates has noted, "[s]uch rate changes provide for improved cash flow and possibly earnings through reduced regulatory lag. ${ }^{" 59}$ As with the inability to include CWIP in its rate base, because it is subject to the regulatory lag otherwise mitigated by forecast test years or alternative rate plans, KCP\&L's ability to generate earnings and cash flow is disadvantaged relative to its peers.

Q: As required by the Commission's rule at 4 CSR 240-3.161(3)(N), please provide a complete explanation of any changes in business risk to the Company resulting from implementation of the fuel adjustment clause ("FAC") it proposes to continue in this proceeding, in addition to any other changes in business risk experienced by the Company.

A: The use of FAC mechanisms is prevalent throughout the industry. As shown in Schedule RBH-8, each of the vertically integrated companies in my proxy group has a fuel adjustment mechanism. As a consequence, the continuation of an FAC for KCP\&L would leave its business and regulatory risk profile comparable to the risk profiles of

[^19]other electric utilities, as it relates to fuel cost recovery. Therefore, no downward adjustment to KCP\&L's rate of return would be reasonable or appropriate as a result of continuation of an FAC. Of course, discontinuation of an FAC for KCP\&L would likely warrant an upward adjustment to the Company's return due to what would be an incremental risk for $\mathrm{KCP} \& \mathrm{~L}$ in the area of fuel cost recovery relative to other electric utilities.

Q: Are you aware of GPE's July 10, 2017 announcement of its pending merger with Westar Energy, Inc. ("Westar")?

A: Yes, I am. Because my analyses are focused on KCP\&L on a standalone basis, and given that the transaction between GPE and Westar will occur at the holding company level, the announcement has not directly affected my recommendation. ${ }^{60}$

## B. Generation Portfolio

Q: Please provide an overview of the Company's generation portfolio.
A: KCP\&L's operations are heavily dependent on coal-fired generation, which represented 75.00 percent of the Company's electric utility 2016 net generation. ${ }^{61}$

## Q: Please briefly describe the risks associated with KCP\&L's generation portfolio.

A: In general, highly capital-intensive generation assets are subject to certain risks including the recovery of the investors' capital in the event of a change in market structure or a plant failure, and recovery of replacement power and repair costs in the event of extended

[^20]or unplanned outage. In addition, federal environmental and safety regulations present a substantial risk of requiring investors to commit new capital to comply with new regulations or operation restrictions or possibly closure. In fact, a report by the Staff of the Missouri Public Service Commission estimated that known Environmental Protection Agency regulations, which primarily affect coal-fired generating plants in Missouri, would cost state electric utilities and their customers between approximately $\$ 2.23$ billion and $\$ 2.47$ billion from 2012 to $2022 .{ }^{62}$ That report further highlighted the level of uncertainty regarding emerging environmental regulations and the potential consequences of those emerging environmental regulations, including additional plant investments.

In a September 2014 report, S\&P noted that power generators have addressed carbon-reduction policies that target coal-fired generating plants by implementing three strategies: adding "scrubbers" to coal-fired plants; switching to burning natural gas; or retiring coal-fired plants outright. ${ }^{63}$ To the extent these strategies increase costs for utilities, their credit profiles may come under pressure. As noted by S\&P:

Higher costs could become a key credit issue for regulated utilities given the importance of managing customer rate increases, which has implications for relations with regulators, as well as economic and political ramifications that could heighten business risk. Any rating actions would likely not occur until there is further clarity from a utility about early plant retirements and related cost recovery. For utilities that have significant coal-fired generation, recovery mechanisms will be extremely important to continue to support operating cash flow and maintain robust financial measures. ${ }^{64}$

[^21]
## Q: What are your conclusions regarding the Company's generating portfolio?

A: The Company's generating portfolio consists of a high percentage of coal power plants that face certain inherent risks associated with capital intensive assets such as the risk of an extended forced outage and changing market dynamics. In particular, the Company and its investors are faced with the risk that new and impending federal environmental and safety regulations will require it to expend additional capital or face closure or curtailment of generating capacity. For example, GPE has announced that KCP\&L will cease burning coal at its Montrose plant in 2018, and that KCP\&L Greater Missouri Operations Company will similarly cease burning coal at its Sibley and Lake Road plants by 2018 and 2019, respectively, citing the cost-effectiveness of complying with environmental regulations. ${ }^{65}$ Because investors consider these risks in establishing their return requirements, the Commission likewise should consider the effect of the additional risk associated with the Company's generating portfolio in determining KCP\&L's authorized ROE.

## C. Planned Capital Expenditures

## Q: Please briefly summarize the Company's capital investment plans.

A: GPE's three-year capital expenditures budget over the 2018-2020 timeframe totals approximately $\$ 1.57$ billion, which includes substantial investments for KCP\&L. ${ }^{66}$ Because the Company will continue to make substantial investments in its utility

[^22]operations, it will require efficient access to capital markets during the period that rates established in this proceeding will be in effect.

Q: Do credit rating agencies recognize risk associated with increased capital expenditures?

A: Yes, they do. From a credit perspective, the additional pressure on cash flows associated with high levels of capital expenditures exerts corresponding pressure on credit metrics and, therefore, credit ratings. S\&P has noted that:

For regulated utilities, infrastructure spending leads to rate-base growth. But for a company to preserve its financial strength, it must be able to quickly begin recovering this spending.

To retain critical access to the debt markets, utilities will need to continue to seek and receive supportive cost recovery from regulators. ${ }^{67}$

The rating agency views noted above also are consistent with certain observations discussed earlier in my Direct Testimony: (1) the benefits of maintaining a strong financial profile are significant when capital access is required, and become particularly acute during periods of market instability; and (2) the Commission's decision in this proceeding will have a direct bearing on the Company's credit profile, and its ability to access the capital needed to fund its investments.

Q: Have you also considered the relationship between capital expenditures and the earned return on common equity?

A: Yes, I have. The "DuPont" formula decomposes the Return on Common Equity into three components: (1) the Profit Margin (net income/revenues); (2) Asset Turnover

[^23](revenues/net plant); and (3) the Equity Multiplier (net plant/equity). ${ }^{68}$ As Schedule RBH-9 demonstrates, based on the proxy companies, the Asset Turnover rate declined from 2008 through 2016 and is expected to remain at its current level through Value Line's 2020 - 2022 projection period. Over that same period, according to Value Line data, average Net Plant is expected to experience a cumulative increase of approximately 125.00 percent. Since, as noted above, the utility industry is going through a period of increased capital investment, the lag between the addition of net plant and revenue generated by those investments dilute the Asset Turnover ratio, at least in the near term.

To gain an additional perspective on the relationship between plant additions and Asset Turnover, I performed a regression analysis in which the annual change in the Asset Turnover rate was the dependent variable, and the annual change in Net Plant was the independent variable. As shown in Schedule RBH-9, that analysis indicates a statistically significant negative relationship between the two variables, such that as annual net plant increases, the Asset Turnover ratio decreases. This, in turn, suggests that an increase in capital expenditures also negatively affects the Return on Common Equity, causing greater financial stress to the utility. To the extent investors value a company based on earnings and cash flow, this additional financial strain is a key concern.

Q: What are your conclusions regarding the effect of the Company's capital spending plans on its risk profile?

A: It is clear that the Company's capital expenditure program is significant. The financial community recognizes the additional risks associated with substantial capital

68 The DuPont formula is commonly used by financial analysts to monitor specific operational and financial drivers of a company's earned ROE. The formula expands the calculation of the ROE into the product of three financial metrics: Profit Margin, Asset Turnover and the Equity Multiplier. That is, ROE = (earnings / revenue)
expenditures and the financing, regulatory and operating risks associated with those plans. The Company must have access to the capital markets on a timely basis and at reasonable cost rates to fund those investments. In my view, the Company's capital investment plan remains an important consideration in establishing its ROE and overall rate of return.

## Q: What are your conclusions regarding the Company's overall business risk profile?

A: The regulatory environment is one of the most important issues considered by both debt and equity investors in assessing the risks and prospects of utility companies. From the perspective of debt investors, the authorized return should enable the Company to generate the cash flow needed to meet its near-term financial obligations, make the capital investments needed to maintain and expand its system, and maintain sufficient levels of liquidity to fund unexpected events. That financial liquidity must be derived not only from internally generated funds, but also by efficient access to capital markets. Because investors have many investment alternatives, even within a given market sector, the Company's financial profile must be adequate on a relative basis to ensure its ability to attract capital under a variety of economic and financial market conditions.

From the perspective of GPE, the authorized return must be sufficient to fund incremental capital investments in KCP\&L’s operations. From the perspective of equity investors, the authorized return must be adequate to provide a risk-comparable return on the equity portion of the Company's capital investments. Since (as discussed earlier) equity investors are the residual claimants on the Company's cash, they are particularly concerned with regulatory uncertainty and its effect on future cash flows.

[^24]In light of those risks, I believe that an ROE in the range of 9.75 percent to 10.50 percent is reasonable, if not conservative. An ROE in that range would permit the Company to compete for capital at a time when it requires additional funds to finance large projects as it confronts multiple new and emerging safety and environmental regulations.

## VII. CAPITAL MARKET ENVIRONMENT

Q: Do economic conditions influence the required cost of capital and required return on common equity?

A: Yes. As discussed in Section V, the models used to estimate the Cost of Equity are meant to reflect, and therefore are influenced by, current and expected capital market conditions. As such, it is important to assess the reasonableness of any financial model's results in the context of observable market data. To the extent certain ROE estimates are incompatible with such data or inconsistent with basic financial principles, it is appropriate to consider whether alternative estimation techniques are likely to provide more meaningful and reliable results.

Q: Do you have any general observations regarding the relationship between Federal Reserve monetary policy, capital market conditions, and KCP\&L's Cost of Equity?

A: Yes, I do. Much has been reported about the Federal Reserve's Quantitative Easing policy and its effect on interest rates. Although the Federal Reserve completed its Quantitative Easing initiative in October 2014, it was not until December 2015 that it raised the Federal Funds rate, and began the process of rate normalization. ${ }^{69}$ Therefore, a significant issue is how investors will react as that process continues, and eventually is

[^25]completed. A viable outcome is that investors will perceive greater prospects of macroeconomic growth, which will increase the growth rates included in the DCF model. At the same time, higher growth and the absence of Federal market intervention could provide the opportunity for interest rates to increase, thereby increasing the dividend yield portion of the DCF model. In that case, both terms of the Constant Growth DCF model would increase, producing increased ROE estimates.

More recently, interest rates have risen and become increasingly volatile. In the equity markets, sectors that historically have included dividend-paying companies lost value, as increasing interest rates provided investors with other sources of current income. Because those dynamics affect different models in different ways, it would be inappropriate to rely on a single method to estimate the Company's Cost of Equity. A more reasoned approach is to understand the relationships among Federal monetary policy, interest rates, and measures of market risk, and to consider how those factors may affect different models and their results. As discussed throughout my Direct Testimony, it remains important to consider a broad range of data and models when determining the Company's Cost of Equity.

## Q: Please summarize the effect of recent Federal Reserve policies on interest rates and the cost of capital.

A: Beginning in 2008, the Federal Reserve proceeded on a steady path of initiatives intended to lower long-term Treasury yields. ${ }^{70}$ The Federal Reserve's policy actions "were designed to put downward pressure on longer-term interest rates by having the Federal Reserve take onto its balance sheet some of the duration and prepayment risks that would

[^26]otherwise have been borne by private investors." ${ }^{, 71}$ Under that policy, "Securities held outright" on the Federal Reserve's balance sheet increased from approximately \$489 billion at the beginning of October 2008 to $\$ 4.23$ trillion by December 2017. ${ }^{72}$ To put that increase in context, the securities held by the Federal Reserve represented approximately 3.29 percent of Gross Domestic Product ("GDP") at the end of September 2008, and had risen to approximately 21.70 percent of GDP in December 2017.73 As such, the Federal Reserve provided a significant source of liquidity, and had a substantial effect on capital markets.

## Q:

A: Yes, it does. From an analytical perspective, it is important that the inputs and assumptions used to arrive at an ROE recommendation, including assessments of capital market conditions, are consistent with the recommendation itself. Although all analyses require an element of judgment, the application of that judgment must be made in the context of the quantitative and qualitative information available to the analyst, and the capital market environment in which the analyses were undertaken. Because the Cost of Equity is forward-looking, the salient issue is whether investors see the likelihood of increased interest rates during the period in which the rates set in this proceeding will be in effect.

The low interest rate environment associated with central bank intervention may lead some analysts to conclude that current capital costs, including the Cost of Equity, are low and will remain as such. However, that conclusion only holds true under the

[^27]hypothesis of Perfectly Competitive Capital Markets ("PCCM") and the classical valuation framework which, under normal economic and capital market conditions, underpin the traditional Cost of Equity models. Perfectly Competitive Capital Markets are those in which no single trader, or "market-mover," would have the power to change the prices of goods or services, including bond and common stock securities. In other words, under the PCCM hypothesis, no single trader would have a significant effect on market prices.

Classic valuation theory assumes investors trade securities rationally, with prices reflecting their perceptions of value. Although central banks may set benchmark interest rates, they have maintained below-normal rates to stimulate economic expansion and capital market recovery. It therefore is reasonable to conclude that the Federal Reserve and other central banks have been acting as market-movers, thereby having a significant effect on the market prices of both bonds and stocks. The presence of market-movers, such as the Federal Reserve, runs counter to the PCCM hypothesis, which underlies traditional Cost of Equity models. Consequently, the results of those models should be considered in the context of both quantitative and qualitative information.

Although the Federal Reserve's market intervention policies have kept interest rates historically low, since July 8, 2016 (when the 30-year Treasury yield hit an all-time low of 2.11 percent), rates have risen. As the Federal Reserve increased the Federal Funds target rate by 25 basis points in December 2016 (from 0.25 percent - 0.50 percent to 0.50 percent - 0.75 percent), March 2017 (to 0.75 percent - 1.00 percent), June 2017 (to 1.00 percent -1.25 percent), and in December 2017 (to 1.25 percent -1.50 percent),

[^28]short-term and long-term interest rates increased by a corresponding amount (see Chart 5 below). ${ }^{74}$

Chart 5: Treasury Yield Curve: 7/8/2016, 12/29/2017 and Projected Q1 20195


Lastly, on September 20, 2017, the Federal Reserve announced that it will "initiate the balance sheet normalization program described in the June 2017 Addendum to the Committee's Policy Normalization Principles and Plans." ${ }^{\text {" }}$ (Those "Principles and Plans" call for reducing the reinvestment of principal payments received from its holdings of Treasury securities by up to $\$ 30$ billion per month, and mortgage-backed securities by up to $\$ 20$ billion per month. ${ }^{77}$ At the same time, the Federal Reserve will continue considering increases to the Federal Funds target rate. As noted below, current market data indicate an approximately 96.30 percent likelihood of further rate increases by December 2018.

[^29]Q: Does market-based data indicate that investors see a probability of increasing interest rates?

A: Yes. Forward Treasury yields implied by the slope of the yield curve and published projections by sources such as Blue Chip Financial Forecasts (which provides consensus estimates from approximately 50 professional economists) indicate investors expect longterm interest rates to increase.

Looking first to short-term interest rates, data compiled by CME Group indicates that investors see a high likelihood of further Federal Funds rate increases, even after the four increases between December 14, 2016 and December 13, 2017. As shown in Table 8, (below) the market is now anticipating at least one additional rate hike ( 96.30 percent probability) and possibly two or more (77.30 percent) by December 2018.

Table 8: Probability of Federal Funds Rate Increases ${ }^{78}$

| Target <br> Rate (bps) | Federal Reserve Meeting Date |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1 / 31 / 18$ | $3 / 21 / 18$ | $5 / 2 / 18$ | $6 / 13 / 18$ | $8 / 1 / 18$ | $9 / 26 / 18$ | $11 / 8 / 18$ | $12 / 19 / 18$ |  |
| $125-150$ | $98.5 \%$ | $37.4 \%$ | $35.9 \%$ | $12.6 \%$ | $11.3 \%$ | $5.6 \%$ | $5.3 \%$ | $3.7 \%$ |  |
| $150-175$ | $1.5 \%$ | $61.6 \%$ | $60.6 \%$ | $44.5 \%$ | $41.3 \%$ | $26.2 \%$ | $25.1 \%$ | $19.0 \%$ |  |
| $175-200$ |  | $1.0 \%$ | $3.5 \%$ | $40.6 \%$ | $41.0 \%$ | $41.2 \%$ | $40.4 \%$ | $35.7 \%$ |  |
| $200-225$ |  |  |  | $2.3 \%$ | $6.1 \%$ | $23.7 \%$ | $24.6 \%$ | $29.5 \%$ |  |
| $225-250$ |  |  |  |  | $0.3 \%$ | $3.2 \%$ | $4.3 \%$ | $10.6 \%$ |  |
| $250-275$ |  |  |  |  |  | $0.1 \%$ | $0.3 \%$ | $1.5 \%$ |  |
| $275-300$ |  |  |  |  |  |  |  | $0.1 \%$ |  |

Lastly, we can view the market's expectations of future interest rates based on the current yield curve. Those expected rates, often referred to as "forward yields" are derived from the "Expectations" theory, which states that (for example) the current 30-

77 Federal Reserve Addendum to the Policy Normalization Principles and Plans, as adopted effective June 13, 2017.
year Treasury yield equals the combination of the current three-year Treasury yield, and the 29-year Treasury yield expected in one year. That is, an investor would be indifferent to (1) holding a 30 -year Treasury to maturity, or (2) holding a one-year Treasury to maturity, then a 29 -year Treasury bond, also to maturity. ${ }^{79}$ Chart 6 , below, shows the difference between the forward and spot Treasury yields over time. It indicates that since 2006 the implied forward 29- and 28- year yields (one and two years hence, respectively) consistently exceeded the (interpolated) spot yields. That is, just as economists' projections implied increased interest rates, so did observable Treasury yields.

Chart 6: Forward vs. Interpolated Treasury Yields ${ }^{\mathbf{8 0}}$


78 See http://www.cmegroup.com/trading/interest-rates/countdown-to-fomc.html, accessed Jan. 8, 2018.
79 In addition to the Expectations theory, there are other theories regarding the term structure of interest rates including: the Liquidity Premium Theory, which asserts that investors require a premium for holding long term bonds; the Market Segmentation Theory, which states that securities of different terms are not substitutable and, as such, the supply of and demand for short-term and long-term instruments is developed independently; and the Preferred Habitat Theory, which states that in addition to interest rate expectations, certain investors have distinct investment horizons and will require a return premium for bonds with maturities outside of that preference. See, e.g., Scott B. Smart, William L. Megginson, and Lawrence J. Gitman, Corporate Finance at 130-131.
80 Source: Federal Reserve Schedule H.15. Spot yields are interpolated.

## Q: What do you conclude from these analyses of capital market conditions?

A: First, it is clear that interest rates have increased from the low levels experienced in early 2016. Second, it is clear that market-based data indicate investors' expectations of rising interest rates in the near- and longer-term. As that occurs, and as interest rates continue to rise, it would be reasonable to expect lower utility valuations, higher dividend yields, and higher growth rates. In the context of the Discounted Cash Flow model, those variables would combine to indicate increases in the Cost of Equity.

Although the market data discussed above indicate increasing costs of capital, it is important to keep in mind that although estimating the Cost of Equity is an empirical exercise, rote application of a specific form of an analysis, or the mechanical use of specific model inputs, may well produce misleading results. The methods used to estimate the Cost of Equity, or the weight given to any one method, may change from case to case. Therefore, the returns authorized in other jurisdictions provide a relevant, observable, and verifiable benchmark for assessing the reasonableness of analytical assumptions, results, and conclusions. As shown in Chart 1, my recommended ROE range of 9.75 percent to 10.50 percent is highly consistent with authorized returns over the last five years.

Q: Have you also reviewed the relationship between credit spreads for A-rated utility debt relative to A-rated corporate debt?

A: Yes, I have. Given the historical volatility in the spread between corporate and utility Arated debt, there is no reason to conclude that utility yields are different than those of their corporate counterparts. That conclusion is consistent with the finding that over time, there has been a nearly one-to-one relationship between credit spreads on A-rated
corporate and utility bonds. In fact, a regression analysis in which corporate credit spreads are the explanatory variable and utility credit spreads are the dependent variable shows that slope is approximately 1.00 and highly significant (see Chart 7, below). Because the intercept term is nearly zero, we can conclude that there has been no material difference between the two, and there certainly is no meaningful difference in the current market.

Chart 7: Corporate and Utility Credit Spreads (A-Rated) ${ }^{81}$


Q: Have there been recent periods when utility valuation levels were high relative to both their long-term average and the market?

A: Yes. For example, between July and December 2016, the S\&P Electric Utility Index lost approximately 9.00 percent of its value. At the same time, the S\&P 500 increased by approximately 7.00 percent, indicating that the utility sector under-performed the market by about 16.00 percent. Also during that time, the 30 -year Treasury yield increased by approximately 95 basis points (an increase of nearly 45.00 percent). The point simply is
that as interest rates increased, utility valuations fell. Because (as noted above) investors see the strong likelihood of further interest rate increases, there is a continuing risk of losses in the utility sector. Such market conditions support my recommended ROE.

## Q: <br> What conclusions do you draw from your analyses of the current capital market environment, and how do those conclusions affect your ROE recommendation? <br> A: In my view, we cannot conclude that the recent levels of utility valuations are due to a fundamental change in the risk perceptions of utility investors. There is no measurable difference between credit spreads of A-rated utility debt and A-rated corporate debt. That is, based on analyses of credit spreads, there is no reason to conclude that investors see utilities as less risky relative to either historical levels or to their corporate counterparts.

From an analytical perspective, it is important that the inputs and assumptions used to arrive at an ROE determination, including assessments of capital market conditions, are consistent with the conclusion itself. Although all analyses require an element of judgment, the application of that judgment must be made in the context of the quantitative and qualitative information available to the analyst and the capital market environment in which the analyses were undertaken. Because the application of financial models and interpretation of their results often is the subject of differences among analysts in regulatory proceedings, I believe that it is important to review and consider a variety of data points. This approach enables us to put in context both quantitative analyses and the associated recommendations.

Because not all models used to estimate the Cost of Equity adequately reflect those changing market dynamics, it is important to give appropriate weight to the

[^30]methods and to their results. Moreover, because those models produce a range of results, it is important to consider the type of data discussed above in determining where the Companies' ROE falls within that range. As described in Section V, on balance, I believe that the DCF-based results should be viewed very carefully, and that more weight should be accorded the Risk Premium-based methods, i.e., the Capital Asset Pricing Model discussed in Section V.C and the Bond Yield Plus Risk Premium Model discussed in Section V.D. I believe that doing so supports my recommended range of 9.75 percent to 10.50 percent.
Q. Have you also considered the effect of the recently enacted Tax Cut and Jobs Act ("TCJA")?
A. Yes, I have. On December 22, 2017, the President of the United States signed the TCJA into law. Since shortly before the TCJA was signed, electric utilities (as measured by my proxy group) have significantly underperformed the overall market. As Chart 8 (below) demonstrates, from November 1, 2017 through January 22, 2018 the S\&P 500 gained about 9.80 percent in value. In stark contrast, my proxy group lost about 9.90 percent, underperforming the overall market by nearly 20.00 percentage points.

Chart 8: Relative Performance Since November $2017^{82}$


A reasonable inference to be drawn from that data is that investors have been reevaluating electric utilities relative to other market sectors. To the extent investors now view utilities as less attractive relative to alternative investments, the proxy companies' prices will fall, and the dividend yields will increase. As explained below, because rating agencies have begun to discuss the consequences of the TCJA for utilities' cash flow, a reasonable conclusion is that equity investors also have begun to recognize those consequences, and to allocate their capital to other market sectors.

## Q. Have the proxy companies' dividend yields increased coincident with the TCJA?

A. Yes, since the beginning of December 2017 the dividend yield for my proxy group increased by about 50 basis points, while the 30 -year Treasury yield increased by about 17 basis points (see Chart 9, below). Again, that data suggests the fall in price among utility stocks may be a matter of relative value stemming from concerns regarding the TCJA's effect on utilities' cash flow. As discussed below, Moody's Investors Service ("Moody's"), Standard \& Poor's, and Fitch Ratings all recently have evaluated the utility
sector in the context of the TCJA, with Moody's noting negative ratings implications for many of the utilities it covers.

Chart 9: Proxy Group Dividend Yield vs. 30-Year Treasury Yield ${ }^{83}$

Q. Are there reasons to expect the TCJA may affect the models used to estimate the Cost of Equity?
A. Yes, there are. As discussed earlier in my Direct Testimony, the Constant Growth DCF model is based on several assumptions that together assume current market conditions essentially will remain in place, unchanged, in perpetuity. Because we have seen a significant change in utility valuations, we should recognize the mean DCF results likely are not reliable indicators of the Company's Cost of Equity. As also discussed in my Direct Testimony, the Cost of Equity is affected by the degree of financial leverage, or debt, in the capital structure. Because there is a "tax shield" associated with debt, lower marginal tax rates will increase the risk-effect of leverage. That effect would manifest itself in increased Beta coefficients of the CAPM, for example. The point simply is that
the reduction in utility valuations coincident with the TCJA is consistent with financial theory.
Q. What concerns have rating agencies raised as they consider the implications of the TCJA for utilities' cash flow?
A. The rating agencies have observed that a reduction in utilities' revenue associated with lower income taxes and the potential return of excess accumulated deferred income taxes also may reduce utilities' cash flow. ${ }^{84}$ As FitchRatings pointed out "[a]bsent mitigating strategies on the regulatory front, this is expected to lead to weaker credit metrics and negative rating actions for issuers with limited headroom to absorb the leverage creep., ${ }^{85}$ In a similar vein, Standard \& Poor's observed that the TCJA is "...negative for credit quality because the combination of a lower tax rate and the loss of stimulus provisions related to bonus depreciation or full expensing of capital spending will create headwinds in operating cash-flow generation capabilities as customer rates are lowered in response to the new tax code. ${ }^{, 86}$ Moody's stated the following:

Tax reform is credit negative for US regulated utilities because the lower $21 \%$ statutory tax rate reduces cash collected from customers, while the loss of bonus depreciation reduces tax deferrals, all else being equal. Moody's calculates that the recent changes in tax laws will dilute a utility's ratio of cash flow before changes in working capital to debt by approximately $150-250$ basis points on average, depending to some degree on the size of the company's capital expenditure programs. From a leverage perspective, Moody's estimates quality, January 25, 2018.
FitchRatings Special Report, Tax Reform Impact on the U.S. Utilities, Power \& Gas Sector, January 24, 2018.

S\&P Global Ratings, U.S. Tax Reform: For Utilities' Credit Quality, Challenges Abound, January 24, 2018.
that debt to total capitalization ratios will increase, based on the lower value of deferred tax liabilities. ${ }^{87}$

All three rating agencies, therefore, have observed the negative effects of the TCJA on utilities' cash flow, and the potential consequences for their credit profiles.
Q. Have the rating agencies also discussed possible regulatory reactions to the cash flow implications of the TCJA?
A. Yes. Moody's, for example, identified approaches to help preserve credit profiles, including "...accelerated cost recovery of certain regulatory assets or future investment; changes to the equity layer or allowed ROEs in rates, and other actions." Moody's also suggested that "[c]hanges to corporate financial policies could include changes to capitalization, the financing of future investments, dividend growth, or others." ${ }^{88}$ FitchRatings observed the following:

A majority of states have opened dockets or requested all utilities in the state to submit an analysis on the implications of the tax reform. While regulators will be keen to provide some sort of rate relief for customers, such actions could take many forms and vary in time frame. Some jurisdictions may be open to a negotiated outcome that focuses more on benefits of rate stability and creditworthy utilities rather than immediate rate reductions. In the former, many tools could be employed, including the following:

- Deferral of lower tax expense to use as an offset to expected future rate increases either from the recovery of regulatory deferrals or rate base growth
- Return of excess unprotected ADIT over a longer-term horizon
- Increase in authorized equity ratio and/or return on equity
- Accelerated depreciation on some assets

87 Moody's Investors' Service, Rating Action: Moody's changes outlooks on 25 US regulated utilities primarily impacted by tax reform, January 19, 2018.
Moody's Investors' Service, Rating Action: Moody's changes outlooks on 25 US regulated utilities primarily impacted by tax reform, January 19, 2018.

- Lower capex ${ }^{89}$

As both rating agencies discussed, regulatory responses may vary by company and jurisdiction, but may include a variety of potential approaches.

## Q. What conclusions do you draw from the data and information discussed above?

A. There is little question that the TCJA has increased cash flow-related risks for utilities. Those risks are manifested in the sector's significant underperformance relative to the broad market, and in the comments of financial participants such as Moody's, Standard \& Poor's, and FitchRatings.
Q. Are you recommending a higher ROE in this proceeding in connection with the TCJA?
A. No, I am not. Rather, I recommend that the Commission consider the capital market implications of the TCJA as part of its review. Based on the data and information discussed above, it is my view that the TCJA, and its implications for utilities' cash flows and credit profiles, provide further support for my ROE range and recommendation.

## VIII. COST OF DEBT

## Q: What is the Company's Cost of Debt?

A: As shown in Schedule RBH-10, the Company's Cost of Debt is 5.06 percent.

Q: Have you assessed the Company's Cost of Debt?
A: Yes, I reviewed the prevailing Bloomberg Fair Value Curves for A-rated and BBB-rated utility debt concurrent with the date of issuance of the Company's debt instruments. As
shown Schedule RBH-11, the Company's weighted average coupon rate is consistent with the prevailing yields at the times of issuance. As such, I believe the Company's 5.06 percent current Cost of Debt is reasonable.

## IX. CAPITAL STRUCTURE AND OVERALL RATE OF RETURN

Q: Please summarize the Company's requested capital structure and overall rate of return.

A: The requested capital structure components and resulting overall rate of return are presented in Table 9 below:

Table 9: Summary of Overall Rate of Return ${ }^{90}$

| Capital Components | Ratio | Cost | Weighted <br> Cost |
| :--- | :---: | :---: | :---: |
| Long-Term Debt | $49.97 \%$ | $5.06 \%$ | $2.00 \%$ |
| Common Equity | $50.03 \%$ | $9.85 \%$ | $4.93 \%$ |
| Total | $\mathbf{1 0 0 . 0 0 \%}$ |  | $6.92 \%$ |

Q: What is the basis for the Company's requested capital structure and overall rate of return?

A: The requested capital structure, as well as the Cost of Debt, are based on KCP\&L's projected capital structure at June 30, 2018. The data supporting the requested capital structure is presented in Schedule RBH-10, with the June 30, 2018 summary shown on page 1 of that schedule.

Q: What are the principal differences between KCP\&L's actual capital structure as of November 30, 2017 and the requested projected capital structure as of June 30, 2018?

A: The actual KCP\&L capital structure as of November 30, 2017, is shown on page 2 of Schedule RBH-10. The key differences between the actual capital structure and the requested capital structure, projected as of June 30, 2018, are as follows:

- Net Long-Term Debt is projected to decrease by $\$ 50$ million due to refinancing of expiring debt.
- Equity is projected to increase by $\$ 28.61$ million due to additional earnings and an increase in the accumulated other comprehensive income balance, which is partially offset by common dividends declared.


## Q: How does the capital structure affect the Cost of Equity?

A: In practice, the capital structure should enable the Company to maintain or enhance its financial integrity, thereby enabling access to capital at competitive rates under a variety of economic and financial market conditions. The capital structure relates to financial risk, which is a function of the percentage of debt relative to equity (that relationship is often referred to as "financial leverage"). As the percentage of debt in the capital structure increases, so do the fixed obligations for the repayment of that debt and, therefore, the risk that cash flows may not be sufficient to meet those obligations on a timely basis. Consequently, as the degree of financial leverage increases, the risk of financial distress (i.e., financial risk) also increases. Since the capital structure can affect the subject company's overall level of risk, it is an important consideration in establishing
a just and reasonable rate of return. Therefore, it is important to consider the capital structure in light of industry practice and investor requirements.

## Q: Please describe your analysis of the Company's capital structure relative to industry practice.

A: As a measure of industry practice, I calculated the average capital structure for each of the utility operating companies held by the proxy companies over the last eight fiscal quarters. As shown in Schedule RBH-12, the proxy group average capital structure over that period includes 52.32 percent common equity and 47.38 percent long-term debt; the average common equity ratios (on a company-specific basis) range from 45.89 percent to 59.52 percent. Based on that review, it is apparent that KCP\&L's capital structure is consistent with those in place at the proxy companies.

Q: What is the basis for using average capital components rather than a point-in-time measurement?

A: Measuring the capital components at a particular point in time can skew the capital structure by the specific circumstances of a particular period. Therefore, it is more appropriate to normalize the relative relationship between the capital components over a period of time.

## Q: What is your conclusion regarding an appropriate capital structure for KCP\&L?

A: Considering the range of proxy company average equity ratios from 45.89 percent to 59.52 percent, I believe that KCP\&L's 50.03 percent common equity ratio is appropriate.

## X. CONCLUSIONS AND RECOMMENDATION

Q: What is your conclusion regarding the Company's Cost of Equity?
A: As discussed in Section V (and as shown in Schedules RBH-1 through RBH-7), I have performed several analyses to estimate KCP\&L's Cost of Equity. In light of those results, and taking into consideration other relevant and observable market data, as well as the Commission's findings in the KCP\&L Order, I believe that an ROE in the range of 9.75 percent to 10.50 percent represents the range of returns required by equity investors under current and expected market conditions. As discussed earlier in my testimony, my recommendation reflects analytical results based on a proxy group of electric utilities, and takes into consideration the Company's risk profile, including the regulatory environment in which KCP\&L operates, its generation portfolio, and its planned capital expenditures.

I also conclude that the Company's 5.06 percent Cost of Debt reflects prevailing market conditions at the times of issuance, and therefore is reasonable and appropriate. Lastly, I conclude that the Company's capital structure, which consists of 50.03 percent common equity, 49.97 percent long-term debt is reasonable relative to its peers. The Company's proposed capital structure is consistent with industry practice, and supports KCP\&L’s financial integrity.

## Q: Does this conclude your Direct Testimony?

A: Yes, it does.

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI 

In the Matter of Kansas City Power \& Light ) Company’s Request for Authority to Implement ) A General Rate Increase for Electric Service )

## AFFIDAVIT OF ROBERT B. HEVERT

## STATE OF MISSOURI ) <br> ) ss <br> COUNTY OF JACKSON

Robert B. Hevert, being first duly sworn on his oath, states:

1. My name is Robert B. Hevert and my business address is ScottMadden, Inc., 1900 W. Park Drive, Suite 250, Westborough, MA 01581. I have been retained to serve as an expert witness to provide testimony on behalf of Kansas City Power \& Light Company.
2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Kansas City Power \& Light Company consisting of seventy-one_ ( 71 ) pages, having been prepared in written form for introduction into evidence in the above-captioned docket.
3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.


Subscribed and sworn before me this $29^{\text {+ }}$ day of January 2018.


My commission expires:


# Constant Growth Discounted Cash Flow Mode 

30 Day Average Stock Price

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Annualized Dividend | Average Stock Price | Dividend Yield | $\begin{gathered} \hline \text { Expected } \\ \text { Dividend } \\ \text { Yield } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Zacks } \\ & \text { Earnings } \\ & \text { Growth } \\ & \hline \end{aligned}$ | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{array}{r} \text { Low } \\ \text { ROE } \\ \hline \end{array}$ | Mean ROE | $\begin{aligned} & \text { High } \\ & \text { ROE } \\ & \hline \end{aligned}$ |
| ALLETE, Inc. | ALE | \$2.14 | \$77.37 | 2.77\% | 2.85\% | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 7.84\% | 8.58\% | 10.07\% |
| Alliant Energy Corporation | LNT | \$1.26 | \$43.95 | 2.87\% | 2.96\% | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 8.95\% | 9.44\% | 10.02\% |
| Ameren Corporation | AEE | \$1.83 | \$61.69 | 2.97\% | 3.07\% | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 9.06\% | 9.73\% | 10.07\% |
| American Electric Power Company, Inc. | AEP | \$2.48 | \$75.90 | 3.27\% | 3.33\% | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 6.08\% | 7.19\% | 8.15\% |
| Black Hills Corporation | BKH | \$1.90 | \$58.88 | 3.23\% | 3.32\% | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 7.56\% | 8.87\% | 10.85\% |
| CMS Energy Corporation | CMS | \$1.33 | \$48.93 | 2.72\% | 2.81\% | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 9.31\% | 9.62\% | 10.26\% |
| Dominion Energy, Inc. | D | \$3.34 | \$82.55 | 4.05\% | 4.15\% | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 7.76\% | 9.40\% | 10.68\% |
| DTE Energy Company | DTE | \$3.53 | \$112.59 | 3.14\% | 3.22\% | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 8.12\% | 8.86\% | 9.23\% |
| Duke Energy Corporation | DUK | \$3.56 | \$87.23 | 4.08\% | 4.16\% | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 7.38\% | 8.07\% | 8.67\% |
| El Paso Electric Company | EE | \$1.34 | \$58.40 | 2.29\% | 2.35\% | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 7.35\% | 7.52\% | 7.66\% |
| Hawaiian Electric Industries, Inc. | HE | \$1.24 | \$37.06 | 3.35\% | 3.40\% | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 4.87\% | 6.80\% | 7.92\% |
| IDACORP, Inc. | IDA | \$2.36 | \$95.25 | 2.48\% | 2.53\% | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 6.02\% | 6.70\% | 7.54\% |
| NorthWestern Corporation | NWE | \$2.10 | \$61.63 | 3.41\% | 3.45\% | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 4.93\% | 6.20\% | 7.98\% |
| OGE Energy Corp. | OGE | \$1.33 | \$34.24 | 3.88\% | 3.98\% | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 7.86\% | 8.71\% | 10.00\% |
| Otter Tail Corporation | OTTR | \$1.28 | \$46.05 | 2.78\% | 2.86\% | NA | 5.20\% | 7.00\% | 6.10\% | 8.05\% | 8.96\% | 9.88\% |
| Pinnacle West Capital Corporation | PNW | \$2.78 | \$88.73 | 3.13\% | 3.21\% | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 6.38\% | 7.93\% | 8.72\% |
| PNM Resources, Inc. | PNM | \$1.06 | \$43.71 | 2.42\% | 2.50\% | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 7.99\% | 8.85\% | 10.02\% |
| Portland General Electric Company | POR | \$1.36 | \$47.86 | 2.84\% | 2.91\% | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 6.70\% | 7.51\% | 8.93\% |
| Southern Company | SO | \$2.32 | \$50.56 | 4.59\% | 4.67\% | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 6.97\% | 8.11\% | 9.19\% |
| WEC Energy Group, Inc. | WEC | \$2.21 | \$67.80 | 3.26\% | 3.35\% | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 8.62\% | 8.91\% | 9.36\% |
| Xcel Energy Inc. | XEL | \$1.44 | \$50.21 | 2.87\% | 2.94\% | 5.50\% | NA | 4.50\% | 5.00\% | 7.43\% | 7.94\% | 8.45\% |
| Proxy Group Mean |  |  |  | 3.16\% | 3.24\% | 5.03\% | 4.68\% | 5.36\% | 5.04\% | 7.39\% | 8.28\% | 9.22\% |
| Proxy Group Median |  |  |  | 3.13\% | 3.21\% | 5.10\% | 4.71\% | 6.00\% | 5.17\% | 7.56\% | 8.58\% | 9.23\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals indicated number of trading day average as of December 29, 201i
[2] Source: Bloom
[3] Equals [1]/[2]
[4] Equals [3] $\times(1+0.5 \times[8])$
[4] Equals [3] X (1
[5] Source: Zacks
[6] Source: Yahoo! Finance
[6] Source: Yahoo! Fina
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum([5], [6], [7])) + Minimum ([5], [6], [7],
[10] Equals [4] + [8]
[11] Equals [3] $\times(1+0.5 \times$ Maximum([5], [6], [7]) $)+$ Maximum([5], [6], [7].

# Constant Growth Discounted Cash Flow Mode 

90 Day Average Stock Price

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Annualized Dividend | Average Stock Price | Dividend Yield | $\begin{gathered} \hline \text { Expected } \\ \text { Dividend } \\ \text { Yield } \\ \hline \end{gathered}$ | Zacks Earnings Growth | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{array}{r} \text { Low } \\ \text { ROE } \\ \hline \end{array}$ | Mean <br> ROE | $\begin{aligned} & \text { High } \\ & \text { ROE } \\ & \hline \end{aligned}$ |
| ALLETE, Inc. | ALE | \$2.14 | \$77.72 | 2.75\% | 2.83\% | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 7.82\% | 8.57\% | 10.05\% |
| Alliant Energy Corporation | LNT | \$1.26 | \$43.28 | 2.91\% | 3.01\% | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 9.00\% | 9.49\% | 10.06\% |
| Ameren Corporation | AEE | \$1.83 | \$60.87 | 3.01\% | 3.11\% | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 9.10\% | 9.77\% | 10.11\% |
| American Electric Power Company, Inc. | AEP | \$2.48 | \$74.10 | 3.35\% | 3.41\% | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 6.16\% | 7.27\% | 8.23\% |
| Black Hills Corporation | BKH | \$1.90 | \$64.26 | 2.96\% | 3.04\% | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 7.28\% | 8.59\% | 10.57\% |
| CMS Energy Corporation | CMS | \$1.33 | \$48.25 | 2.76\% | 2.85\% | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 9.35\% | 9.66\% | 10.30\% |
| Dominion Energy, Inc. | D | \$3.34 | \$80.26 | 4.16\% | 4.27\% | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 7.88\% | 9.52\% | 10.80\% |
| DTE Energy Company | DTE | \$3.53 | \$111.40 | 3.17\% | 3.26\% | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 8.16\% | 8.89\% | 9.26\% |
| Duke Energy Corporation | DUK | \$3.56 | \$87.07 | 4.09\% | 4.17\% | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 7.38\% | 8.08\% | 8.68\% |
| El Paso Electric Company | EE | \$1.34 | \$57.15 | 2.34\% | 2.41\% | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 7.40\% | 7.57\% | 7.71\% |
| Hawaiian Electric Industries, Inc. | HE | \$1.24 | \$35.42 | 3.50\% | 3.56\% | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.03\% | 6.96\% | 8.08\% |
| IDACORP, Inc. | IDA | \$2.36 | \$92.20 | 2.56\% | 2.61\% | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 6.10\% | 6.78\% | 7.62\% |
| NorthWestern Corporation | NWE | \$2.10 | \$59.96 | 3.50\% | 3.55\% | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.03\% | 6.30\% | 8.08\% |
| OGE Energy Corp. | OGE | \$1.33 | \$35.55 | 3.74\% | 3.83\% | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 7.71\% | 8.56\% | 9.85\% |
| Otter Tail Corporation | OTTR | \$1.28 | \$44.86 | 2.85\% | 2.94\% | NA | 5.20\% | 7.00\% | 6.10\% | 8.13\% | 9.04\% | 9.95\% |
| Pinnacle West Capital Corporation | PNW | \$2.78 | \$88.35 | 3.15\% | 3.22\% | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 6.40\% | 7.94\% | 8.73\% |
| PNM Resources, Inc. | PNM | \$1.06 | \$42.64 | 2.49\% | 2.56\% | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 8.05\% | 8.91\% | 10.08\% |
| Portland General Electric Company | POR | \$1.36 | \$47.20 | 2.88\% | 2.95\% | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 6.74\% | 7.55\% | 8.97\% |
| Southern Company | SO | \$2.32 | \$50.41 | 4.60\% | 4.68\% | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 6.99\% | 8.12\% | 9.21\% |
| WEC Energy Group, Inc. | WEC | \$2.21 | \$66.46 | 3.33\% | 3.42\% | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 8.68\% | 8.97\% | 9.42\% |
| Xcel Energy Inc. | XEL | \$1.44 | \$49.41 | 2.91\% | 2.99\% | 5.50\% | NA | 4.50\% | 5.00\% | 7.48\% | 7.99\% | 8.49\% |
| Proxy Group Mean |  |  |  | 3.19\% | 3.27\% | 5.03\% | 4.68\% | 5.36\% | 5.04\% | 7.42\% | 8.31\% | 9.25\% |
| Proxy Group Median |  |  |  | 3.01\% | 3.11\% | 5.10\% | 4.71\% | 6.00\% | 5.17\% | 7.48\% | 8.56\% | 9.26\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals indicated number of trading day average as of December 29, 201;
[2] Source: Bloomb
[3] Equals [1] $/ 2]$
[4] Equals [3] $\times(1+0.5 \times[8])$
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum $([5],[6],[7]))+$ Minimum ([5], [6], [7]),
[10] Equals [4] + [8]
[11] Equals [3] $\times(1+0.5 \times$ Maximum([5], [6], [7])) + Maximum([5], [6], [7])

## Constant Growth Discounted Cash Flow Mode

180 Day Average Stock Price

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Annualized Dividend | $\begin{gathered} \hline \text { Average } \\ \text { Stock } \\ \text { Price } \\ \hline \end{gathered}$ | Dividend Yield | Expected Dividend Yield | $\begin{aligned} & \text { Zacks } \\ & \text { Earnings } \\ & \text { Growth } \end{aligned}$ | First Call Earnings Growth | $\begin{gathered} \text { Value Line } \\ \text { Earnings } \\ \text { Growth } \\ \hline \end{gathered}$ | Average Earnings Growth | $\begin{aligned} & \text { Low } \\ & \text { ROE } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Mean } \\ & \text { ROE } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { High } \\ & \text { ROE } \\ & \hline \end{aligned}$ |
| ALLETE, Inc. | ALE | \$2.14 | \$74.84 | 2.86\% | 2.94\% | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 7.93\% | 8.67\% | 10.16\% |
| Alliant Energy Corporation | LNT | \$1.26 | \$41.99 | 3.00\% | 3.10\% | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 9.09\% | 9.58\% | 10.16\% |
| Ameren Corporation | AEE | \$1.83 | \$58.43 | 3.13\% | 3.24\% | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 9.23\% | 9.90\% | 10.24\% |
| American Electric Power Company, Inc. | AEP | \$2.48 | \$72.02 | 3.44\% | 3.51\% | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 6.26\% | 7.37\% | 8.33\% |
| Black Hills Corporation | BKH | \$1.90 | \$66.70 | 2.85\% | 2.93\% | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 7.17\% | 8.48\% | 10.46\% |
| CMS Energy Corporation | CMS | \$1.33 | \$47.39 | 2.81\% | 2.90\% | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 9.40\% | 9.72\% | 10.35\% |
| Dominion Energy, Inc. | D | \$3.34 | \$79.20 | 4.22\% | 4.33\% | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 7.93\% | 9.57\% | 10.85\% |
| DTE Energy Company | DTE | \$3.53 | \$109.30 | 3.23\% | 3.32\% | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 8.22\% | 8.96\% | 9.33\% |
| Duke Energy Corporation | DUK | \$3.56 | \$85.84 | 4.15\% | 4.23\% | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 7.44\% | 8.14\% | 8.74\% |
| El Paso Electric Company | EE | \$1.34 | \$54.81 | 2.44\% | 2.51\% | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 7.51\% | 7.67\% | 7.81\% |
| Hawaiian Electric Industries, Inc. | HE | \$1.24 | \$34.21 | 3.62\% | 3.69\% | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.15\% | 7.09\% | 8.21\% |
| IDACORP, Inc. | IDA | \$2.36 | \$89.17 | 2.65\% | 2.70\% | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 6.19\% | 6.87\% | 7.71\% |
| NorthWestern Corporation | NWE | \$2.10 | \$60.36 | 3.48\% | 3.53\% | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.01\% | 6.28\% | 8.06\% |
| OGE Energy Corp. | OGE | \$1.33 | \$35.34 | 3.76\% | 3.85\% | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 7.74\% | 8.59\% | 9.88\% |
| Otter Tail Corporation | OTTR | \$1.28 | \$42.38 | 3.02\% | 3.11\% | NA | 5.20\% | 7.00\% | 6.10\% | 8.30\% | 9.21\% | 10.13\% |
| Pinnacle West Capital Corporation | PNW | \$2.78 | \$87.50 | 3.18\% | 3.25\% | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 6.43\% | 7.97\% | 8.76\% |
| PNM Resources, Inc. | PNM | \$1.06 | \$40.68 | 2.61\% | 2.69\% | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 8.18\% | 9.04\% | 10.20\% |
| Portland General Electric Company | POR | \$1.36 | \$46.57 | 2.92\% | 2.99\% | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 6.78\% | 7.59\% | 9.01\% |
| Southern Company | SO | \$2.32 | \$49.86 | 4.65\% | 4.73\% | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 7.04\% | 8.18\% | 9.26\% |
| WEC Energy Group, Inc. | WEC | \$2.21 | \$64.40 | 3.43\% | 3.53\% | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 8.79\% | 9.08\% | 9.53\% |
| Xcel Energy Inc. | XEL | \$1.44 | \$48.05 | 3.00\% | 3.07\% | 5.50\% | NA | 4.50\% | 5.00\% | 7.56\% | 8.07\% | 8.58\% |
| Proxy Group Mean |  |  |  | 3.26\% | 3.34\% | 5.03\% | 4.68\% | 5.36\% | 5.04\% | 7.49\% | 8.38\% | 9.32\% |
| Proxy Group Median |  |  |  | 3.13\% | 3.24\% | 5.10\% | 4.71\% | 6.00\% | 5.17\% | 7.56\% | 8.48\% | 9.33\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals indicated number of trading day average as of December 29, 201;
[2] Source: Bloomb
[3] Equals [1] / [2]
[4] Equals [3] $\times(1+0.5 \times[8])$
[4] Equals [3] x (1
[5] Source: Zacks
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum $([5],[6],[7]))+$ Minimum ([5], [6], [7]),
[10] Equals [4] + [8]
[11] Equals [3] $\times(1+0.5 \times$ Maximum([5], [6], [7]) $)+$ Maximum([5], [6], [7].

| Inputs | $\frac{[1]}{\text { Stock }}$ |  | $\frac{[2]}{[3]} \stackrel{[4]}{[5]} \text { EPS Growth Rate Estimates }$ |  |  |  | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | $\frac{[10]}{\text { Iterative Solution }}$ |  | $\frac{[12]}{\text { Terminal }}$ | $\frac{[13]}{\substack{\text { Terminal } \\ \text { PEG }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | ayout Rat |  |  |  |  |  |  |
| Company | Ticker | Price |  |  |  |  | Zacks | First Call | Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | Ratio |
| ALLETE, Inc. | ALE | \$77.37 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.51\% | 22.21 | 4.13 |
| Alliant Energy Corporation | LNT | \$43.95 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.45\% | 22.59 | 4.20 |
| Ameren Corporation | AEE | \$61.69 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 8.93\% | 19.54 | 3.63 |
| American Electric Power Company, Inc. | AEP | \$75.90 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.22\% | 18.09 | 3.36 |
| Black Hills Corporation | BKH | \$58.88 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 8.68\% | 21.03 | 3.91 |
| CMS Energy Corporation | CMS | \$48.93 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.72\% | 20.78 | 3.86 |
| Dominion Energy, Inc. | D | \$82.55 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 8.70\% | 20.91 | 3.89 |
| DTE Energy Company | DTE | \$112.59 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 8.66\% | 21.13 | 3.93 |
| Duke Energy Corporation | DUK | \$87.23 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.42\% | 22.83 | 4.25 |
| El Paso Electric Company | EE | \$58.40 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.36\% | 23.26 | 4.32 |
| Hawaiian Electric Industries, Inc. | HE | \$37.06 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.63\% | 16.34 | 3.04 |
| IDACORP, Inc. | IDA | \$95.25 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.23\% | 24.36 | 4.53 |
| NorthWestern Corporation | NWE | \$61.63 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 8.86\% | 19.93 | 3.71 |
| OGE Energy Corp. | OGE | \$34.24 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.02\% | 19.05 | 3.54 |
| Otter Tail Corporation | OTTR | \$46.05 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 8.12\% | 25.30 | 4.70 |
| Pinnacle West Capital Corporation | PNW | \$88.73 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.60\% | 21.56 | 4.01 |
| PNM Resources, Inc. | PNM | \$43.71 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.36\% | 23.33 | 4.34 |
| Portland General Electric Company | POR | \$47.86 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.57\% | 21.76 | 4.05 |
| Southern Company | So | \$50.56 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 9.24\% | 17.98 | 3.34 |
| WEC Energy Group, Inc. | WEC | \$67.80 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 8.75\% | 20.59 | 3.83 |
| Xcel Energy Inc. | XEL | \$50.21 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | \$0.00 | 8.64\% | 21.30 | 3.96 |
|  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { Mean } \\ \text { Max } \\ \text { Min } \end{gathered}$ | $\begin{aligned} & \hline 8.70 \% \\ & 9.63 \% \\ & 8.12 \% \end{aligned}$ | 21.14 |  |

Projected Annual
Earnings per Share

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$165.35 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$93.22 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$132.63 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$158.62 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$129.47 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$105.28 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$164.79 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$240.39 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$176.33 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$126.61 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$75.05 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$203.47 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$129.31 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$71.10 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$98.50 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$187.90 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$95.35 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$102.81 |
| Southern Company | So | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$102.39 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$142.68 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$105.94 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $6 / 30130$ | $6 / 30131$ | $6 / 30132$ |
| Company | ALEE | (\$77.37) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$170.26 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$95.94 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$137.10 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$164.40 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$133.53 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$108.62 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$169.99 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$247.89 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$181.42 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$130.19 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$78.08 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$208.98 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$133.58 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$73.56 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$101.07 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$193.65 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$98.05 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$105.93 |
| Southern Company | So | (\$50.56) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$106.15 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$147.25 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$109.21 |



Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | ВКН | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | so | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.14 | \$3.33 | \$3.53 | \$3.74 | \$3.96 | \$4.19 | \$4.44 | \$4.69 | \$4.95 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.44 | \$6.79 | \$7.15 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.33 | \$2.46 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.21 | \$3.39 | \$3.57 | \$3.76 | \$3.97 | \$4.18 | \$4.40 | \$4.64 | \$4.89 | \$5.15 |

Projected Annual

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$166.57 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$93.45 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$132.87 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$159.42 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$131.08 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$105.62 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$165.34 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$240.81 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$176.62 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$126.69 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$75.45 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$204.22 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$130.47 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$71.52 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$98.90 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$188.59 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$95.93 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$103.58 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$102.85 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$142.97 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$106.17 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  | 613029 | 6130130 | $6 / 3013$ | $6 / 30132$ |
| Company | ALEE | (\$77.37) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$172.01 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$96.28 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$137.45 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$165.60 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$135.73 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$109.11 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$171.01 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$248.50 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$181.93 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$130.31 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$78.73 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$210.07 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$135.32 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$74.21 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$101.64 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$194.67 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$98.85 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$107.02 |
| Southern Company | So | (\$50.56) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$106.90 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$147.69 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$109.57 |


| Inputs |  |  | Multi-Stage Growth Discounted Cash Flow Model <br> 30 Day Average Stock Price <br> Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  | Stock |  | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | $\begin{aligned} & \text { Terminal } \\ & \hline \text { PEG } \end{aligned}$ |
| Company | Ticker |  | Zacks |  | Value | Low |  |  |  |  |  |  |  |  |
|  |  | Price |  | First Call | Line | Growth | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | Ratio |
| ALLETE, Inc. | ALE | \$77.37 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.36\% | 23.32 | 4.34 |
| Alliant Energy Corporation | LNT | \$43.95 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.35\% | 23.33 | 4.34 |
| Ameren Corporation | AEE | \$61.69 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 8.78\% | 20.41 | 3.79 |
| American Electric Power Company, Inc. | AEP | \$75.90 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.95\% | 19.46 | 3.62 |
| Black Hills Corporation | BKH | \$58.88 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 8.41\% | 22.90 | 4.26 |
| CMS Energy Corporation | CMS | \$48.93 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.65\% | 21.21 | 3.94 |
| Dominion Energy, Inc. | D | \$82.55 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 8.35\% | 23.39 | 4.35 |
| DTE Energy Company | DTE | \$112.59 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 8.51\% | 22.18 | 4.12 |
| Duke Energy Corporation | DUK | \$87.23 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.28\% | 23.94 | 4.45 |
| El Paso Electric Company | EE | \$58.40 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.33\% | 23.52 | 4.37 |
| Hawaiian Electric Industries, Inc. | HE | \$37.06 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.11\% | 18.62 | 3.46 |
| IDACORP, Inc. | IDA | \$95.25 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.10\% | 25.49 | 4.74 |
| NorthWestern Corporation | NWE | \$61.63 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 8.58\% | 21.72 | 4.04 |
| OGE Energy Corp. | OGE | \$34.24 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 8.82\% | 20.16 | 3.75 |
| Otter Tail Corporation | OTTR | \$46.05 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.96\% | 26.87 | 5.00 |
| Pinnacle West Capital Corporation | PNW | \$88.73 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.28\% | 23.90 | 4.44 |
| PNM Resources, Inc. | PNM | \$43.71 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.19\% | 24.68 | 4.59 |
| Portland General Electric Company | POR | \$47.86 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.40\% | 22.96 | 4.27 |
| Southern Company | So | \$50.56 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 8.96\% | 19.41 | 3.61 |
| WEC Energy Group, Inc. | WEC | \$67.80 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 8.69\% | 20.98 | 3.90 |
| Xcel Energy Inc. | XEL | \$50.21 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.53\% | 22.03 | 4.10 |
|  |  |  |  |  |  |  |  |  |  |  | Mean | 8.50\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Max | 9.11\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Min | 7.96\% |  |  |


| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | so | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | . 17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |


| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$164.80 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$93.03 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$132.16 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$157.79 |
| Black Hills Corporation | BKH | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$128.53 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$105.11 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$164.24 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$239.59 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$176.03 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$126.50 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$74.46 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$202.91 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$128.59 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$70.85 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$98.14 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$186.70 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$94.96 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$102.41 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$101.97 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$142.50 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$105.71 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outlow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30132 |
| ALLETE, Inc. | ALE | (\$77.37) | \$0.00 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$169.46 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$95.66 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$136.43 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$163.14 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$132.23 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$108.38 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$168.86 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$246.71 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$180.88 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$130.05 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$77.10 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$208.15 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$132.49 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$73.17 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$100.55 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$191.85 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$97.49 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$105.35 |
| Southern Company | so | (\$50.56) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$105.44 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$146.98 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$108.87 |


| Inputs | $\frac{[1]}{\text { Stock }}$ |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | $\frac{[8]}{\text { Payout Ratio }}$ |  | $\frac{[10] \quad[11]}{\text { Iterative Solution }}$ |  | $\frac{[12]}{\text { Terminal }}$ | $\frac{[13]}{\substack{\text { Terminal } \\ \text { PEG }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Growth R | e Estima |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | Ratio |
| ALLETE, Inc. | ALE | \$77.72 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | \$0.00 | 8.49\% | 22.31 | 4.15 |
| Alliant Energy Corporation | LNT | \$43.28 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | \$0.00 | 8.50\% | 22.25 | 4.14 |
| Ameren Corporation | AEE | \$60.87 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | \$0.00 | 8.98\% | 19.28 | 3.58 |
| American Electric Power Company, Inc. | AEP | \$74.10 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | \$0.00 | 9.31\% | 17.65 | 3.28 |
| Black Hills Corporation | BKH | \$64.26 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | \$0.00 | 8.41\% | 22.91 | 4.26 |
| CMS Energy Corporation | CMS | \$48.25 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | \$0.00 | 8.77\% | 20.49 | 3.81 |
| Dominion Energy, Inc. | D | \$80.26 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | \$0.00 | 8.80\% | 20.30 | 3.77 |
| DTE Energy Company | DTE | \$111.40 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | \$0.00 | 8.70\% | 20.91 | 3.89 |
| Duke Energy Corporation | DUK | \$87.07 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | \$0.00 | 8.43\% | 22.79 | 4.24 |
| El Paso Electric Company | EE | \$57.15 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | \$0.00 | 8.43\% | 22.77 | 4.23 |
| Hawaiian Electric Industries, Inc. | HE | \$35.42 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | \$0.00 | 9.84\% | 15.57 | 2.90 |
| IDACORP, Inc. | IDA | \$92.20 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | \$0.00 | 8.32\% | 23.58 | 4.38 |
| NorthWestern Corporation | NWE | \$59.96 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | \$0.00 | 8.96\% | 19.38 | 3.60 |
| OGE Energy Corp. | OGE | \$35.55 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | \$0.00 | 8.89\% | 19.80 | 3.68 |
| Otter Tail Corporation | OTTR | \$44.86 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | \$0.00 | 8.20\% | 24.64 | 4.58 |
| Pinnacle West Capital Corporation | PNW | \$88.35 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | \$0.00 | 8.61\% | 21.47 | 3.99 |
| PNM Resources, Inc. | PNM | \$42.64 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | \$0.00 | 8.43\% | 22.77 | 4.23 |
| Portland General Electric Company | POR | \$47.20 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | \$0.00 | 8.61\% | 21.46 | 3.99 |
| Southern Company | so | \$50.41 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | \$0.00 | 9.25\% | 17.92 | 3.33 |
| WEC Energy Group, Inc. | WEC | \$66.46 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | \$0.00 | 8.82\% | 20.17 | 3.75 |
| Xcel Energy Inc. | XEL | \$49.41 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | \$0.00 | 8.69\% | 20.95 | 3.90 |
|  |  |  |  |  |  |  |  |  |  |  | Mean | 8.74\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Max | 9.84\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Min | 8.20\% |  |  |

Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91 | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$166.10 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$91.79 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$130.87 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$154.78 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$141.04 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$103.82 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$159.93 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$237.84 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$175.99 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$123.93 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$71.55 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$196.95 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$125.74 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$73.90 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$95.96 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$187.10 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$93.05 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$101.40 |
| Southern Company | so | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$102.08 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$139.82 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$104.22 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $6 / 30130$ | $6 / 30131$ | $6 / 30132$ |
| Company | ALEE | (\$77.72) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$171.01 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$94.50 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$135.34 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$160.56 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$145.10 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$107.16 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$165.12 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$245.34 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$181.08 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$127.52 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$74.57 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$202.45 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$130.02 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$76.36 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$98.53 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$192.85 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$95.74 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$104.52 |
| Southern Company | so | (\$50.41) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$105.83 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$144.39 |
| Xcel Energy Inc. | XEL | (\$49.40) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$107.50 |



| Projected Annual |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | BKH | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | so | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. Xcel Energy Inc. | WEC | $\$ 2.96$ | $\$ 3.14$ | $\$ 3.33$ | $\$ 3.53$ | $\$ 3.74$ | \$3.96 $\$ 2.89$ | \$4.19 $\$ 3.05$ | $\$ 4.44$ | $\$ 4.69$ | \$4.95 $\$ 3.57$ | $\$ 5.22$ | $\$ 5.50$ | \$5.80 $\$ 4.18$ | \$6.11 $\$ 4.40$ | \$6.44 $\$ 4.64$ | $\$ 6.79$ $\$ 4.89$ | \$7.15 $\$ 5.15$ |

Projected Annual
Dividend Payout Ratio

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$167.31 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$92.02 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$131.11 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$155.58 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$142.67 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$104.17 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$160.47 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$238.26 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$176.27 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$124.02 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$71.95 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$197.70 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$126.90 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$74.32 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$96.36 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$187.79 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$93.63 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$102.17 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$102.53 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$140.11 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$104.46 |


| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outiow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30/32 |
| ALLETE, Inc. | ALE | (\$77.72) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$172.75 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$94.85 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$135.69 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$161.76 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$147.32 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$107.66 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$166.15 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$245.95 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$181.58 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$127.64 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$75.22 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$203.54 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$131.75 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$77.01 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$99.09 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$193.86 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$96.55 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$105.61 |
| Southern Company | so | (\$50.41) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$106.58 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$144.83 |
| Xcel Energy Inc. | XEL | (\$49.40) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$107.85 |


| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model <br> 90 Day Average Stock Price <br> Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] |  | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal P/E Ratio | $\begin{gathered} \text { Terminal } \\ \hline \text { PEG } \\ \text { Ratio } \end{gathered}$ |
| Company | Ticker | Price | Zacks | First Call | Value Line | $\begin{gathered} \text { Low } \\ \text { Growth } \end{gathered}$ |  |  |  |  |  |  |  |  |
| ALLETE, Inc. | ALE | \$77.72 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | \$0.00 | 8.34\% | 23.43 | 4.36 |
| Alliant Energy Corporation | LNT | \$43.28 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | \$0.00 | 8.40\% | 22.97 | 4.27 |
| Ameren Corporation | AEE | \$60.87 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | \$0.00 | 8.83\% | 20.14 | 3.74 |
| American Electric Power Company, Inc. | AEP | \$74.10 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | \$0.00 | 9.04\% | 18.99 | 3.53 |
| Black Hills Corporation | Вкн | \$64.26 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | \$0.00 | 8.16\% | 24.95 | 4.64 |
| CMS Energy Corporation | CMS | \$48.25 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | \$0.00 | 8.70\% | 20.91 | 3.89 |
| Dominion Energy, Inc. | D | \$80.26 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | \$0.00 | 8.44\% | 22.70 | 4.22 |
| DTE Energy Company | DTE | \$111.40 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | \$0.00 | 8.54\% | 21.95 | 4.08 |
| Duke Energy Corporation | DUK | \$87.07 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | \$0.00 | 8.28\% | 23.90 | 4.44 |
| El Paso Electric Company | EE | \$57.15 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | \$0.00 | 8.40\% | 23.02 | 4.28 |
| Hawaiian Electric Industries, Inc. | HE | \$35.42 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | \$0.00 | 9.29\% | 17.74 | 3.30 |
| IDACORP, Inc. | IDA | \$92.20 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | \$0.00 | 8.19\% | 24.67 | 4.59 |
| NorthWestern Corporation | NWE | \$59.96 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | \$0.00 | 8.67\% | 21.12 | 3.93 |
| OGE Energy Corp. | OGE | \$35.55 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | \$0.00 | 8.69\% | 20.95 | 3.90 |
| Otter Tail Corporation | OTTR | \$44.86 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | \$0.00 | 8.03\% | 26.17 | 4.87 |
| Pinnacle West Capital Corporation | PNW | \$88.35 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | \$0.00 | 8.30\% | 23.80 | 4.43 |
| PNM Resources, Inc. | PNM | \$42.64 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | \$0.00 | 8.26\% | 24.08 | 4.48 |
| Portland General Electric Company | POR | \$47.20 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | \$0.00 | 8.45\% | 22.64 | 4.21 |
| Southern Company | so | \$50.41 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | \$0.00 | 8.97\% | 19.35 | 3.60 |
| WEC Energy Group, Inc. | WEC | \$66.46 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | \$0.00 | 8.76\% | 20.56 | 3.82 |
| Xcel Energy Inc. | XEL | \$49.41 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | \$0.00 | 8.58\% | 21.67 | 4.03 |
|  |  |  |  |  |  |  |  |  |  |  | Mean | 8.54\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Ma | 9.29\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Min | 8.03\% |  |  |


| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | so | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | \$3.17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |


| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Projected Annual

| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$165.55 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$91.60 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$130.40 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$153.96 |
| Black Hills Corporation | BKH | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$140.08 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$103.66 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$159.37 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$237.04 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$175.69 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$123.83 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$70.96 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$196.38 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$125.02 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$73.65 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$95.59 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$185.90 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$92.65 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$101.00 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$101.66 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$139.65 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$103.99 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial Outfow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30/32 |
| ALLETE, Inc. | ALE | (\$77.72) | \$0.00 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$170.21 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$94.23 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$134.67 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$159.30 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$143.78 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$106.92 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$163.99 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$244.16 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$180.53 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$127.38 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$73.59 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$201.63 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$128.93 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$75.97 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$98.00 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$191.05 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$95.19 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$103.94 |
| Southern Company | so | (\$50.41) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$105.12 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$144.12 |
| Xcel Energy Inc. | XEL | (\$49.40) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$107.16 |


| nputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | Growth R | Estima |  | Long-Term |  | ayout Rati |  | Iterativ | Solution | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | Ratio |
| ALLETE, Inc. | ALE | \$74.84 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | \$0.00 | 8.61\% | 21.48 | 3.99 |
| Alliant Energy Corporation | LNT | \$41.99 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | \$0.00 | 8.60\% | 21.58 | 4.01 |
| Ameren Corporation | AEE | \$58.43 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | \$0.00 | 9.13\% | 18.51 | 3.44 |
| American Electric Power Company, Inc. | AEP | \$72.02 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | \$0.00 | 9.43\% | 17.14 | 3.19 |
| Black Hills Corporation | BKH | \$66.70 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | \$0.00 | 8.30\% | 23.75 | 4.42 |
| CMS Energy Corporation | CMS | \$47.39 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | \$0.00 | 8.83\% | 20.13 | 3.74 |
| Dominion Energy, Inc. | D | \$79.20 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | \$0.00 | 8.85\% | 20.01 | 3.72 |
| DTE Energy Company | DTE | \$109.30 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | \$0.00 | 8.76\% | 20.51 | 3.81 |
| Duke Energy Corporation | DUK | \$85.84 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | \$0.00 | 8.47\% | 22.45 | 4.17 |
| El Paso Electric Company | EE | \$54.81 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | \$0.00 | 8.56\% | 21.85 | 4.06 |
| Hawaiian Electric Industries, Inc. | HE | \$34.21 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | \$0.00 | 10.00\% | 15.01 | 2.79 |
| IDACORP, Inc. | IDA | \$89.17 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | \$0.00 | 8.42\% | 22.80 | 4.24 |
| NorthWestern Corporation | NWE | \$60.36 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | \$0.00 | 8.94\% | 19.51 | 3.63 |
| OGE Energy Corp. | OGE | \$35.34 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | \$0.00 | 8.91\% | 19.68 | 3.66 |
| Otter Tail Corporation | OTTR | \$42.38 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | \$0.00 | 8.36\% | 23.28 | 4.33 |
| Pinnacle West Capital Corporation | PNW | \$87.50 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | \$0.00 | 8.64\% | 21.26 | 3.95 |
| PNM Resources, Inc. | PNM | \$40.68 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | \$0.00 | 8.57\% | 21.74 | 4.04 |
| Portland General Electric Company | POR | \$46.57 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | \$0.00 | 8.66\% | 21.18 | 3.94 |
| Southern Company | so | \$49.86 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | \$0.00 | 9.30\% | 17.72 | 3.29 |
| WEC Energy Group, Inc. | WEC | \$64.40 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | \$0.00 | 8.93\% | 19.54 | 3.63 |
| Xcel Energy Inc. | XEL | \$48.05 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | \$0.00 | 8.79\% | 20.37 | 3.79 |
|  |  |  |  |  |  |  |  |  |  |  | Mea | $\begin{gathered} \hline 8.81 \% \\ 10.00 \% \\ 8.30 \% \end{gathered}$ |  |  |

Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$159.94 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$89.02 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$125.63 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$150.34 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$146.26 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$101.99 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$157.67 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$233.33 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$173.36 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$118.92 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$68.97 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$190.46 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$126.60 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$73.45 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$90.64 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$185.28 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$88.86 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$100.06 |
| Southern Company | so | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$100.90 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$135.41 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$101.31 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial | 122917 |  |  |  |  |  |  |  |  |  |  |  | 613028 | 613029 | $6 / 30130$ | $6 / 30131$ | 613013 |
| ALLETE, Inc. | ALE | (\$74.84) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$164.85 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$91.74 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$130.11 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$156.12 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$150.32 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$105.33 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$162.87 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$240.83 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$178.45 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$122.51 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$72.00 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$195.97 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$130.88 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$75.90 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$93.21 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$191.02 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$91.55 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$103.17 |
| Southern Company | So | (\$49.86) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$104.66 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$139.97 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$104.59 |



Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | BKH | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | so | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.14 | \$3.33 | \$3.53 | \$3.74 | \$3.96 | \$4.19 | \$4.44 | \$4.69 | \$4.95 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.44 | \$6.79 | \$7.15 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.33 | \$2.46 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.21 | \$3.39 | \$3.57 | \$3.76 | \$3.97 | \$4.18 | \$4.40 | \$4.64 | \$4.89 | \$5.15 |

Projected Annual

| Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91 | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$161.15 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$89.25 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$125.87 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$151.13 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$147.90 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$102.34 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$158.22 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$233.75 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$173.65 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$119.00 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$69.37 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$191.21 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$127.76 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$73.87 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$91.04 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$185.97 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$89.43 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$100.83 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$101.36 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$135.69 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$101.55 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial | 122917 |  |  |  |  |  |  |  |  |  | 613026 |  | 630 | 613029 | 6130130 | $6 / 3013$ | 6 |
| ALLETE, Inc. | ALE | (\$74.84) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$166.59 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$92.08 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$130.45 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$157.32 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$152.55 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$105.83 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$163.90 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$241.45 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$178.96 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$122.62 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$72.65 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$197.05 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$132.61 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$76.56 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$93.77 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$192.04 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$92.35 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$104.27 |
| Southern Company | So | (\$49.86) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$105.41 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$140.41 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$104.95 |


| Inputs | [1] |  | Multi-Stage Growth Discounted Cash Flow Model <br> 180 Day Average Stock Price <br> Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] |  | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | $\begin{aligned} & \hline \text { Terminal } \\ & \hline \text { PEG } \end{aligned}$ |
| Company | Ticker | Price | Zacks | First Call | Value | $\begin{aligned} & \text { Low } \\ & \text { Growth } \end{aligned}$ |  |  |  |  | Proof | IRR | P/E Ratio | PEG <br> Ratio |
| ALLETE, Inc. | ALE | \$74.84 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | \$0.00 | 8.46\% | 22.55 | 4.19 |
| Alliant Energy Corporation | LNT | \$41.99 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | \$0.00 | 8.50\% | 22.28 | 4.14 |
| Ameren Corporation | AEE | \$58.43 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | \$0.00 | 8.97\% | 19.33 | 3.59 |
| American Electric Power Company, Inc. | AEP | \$72.02 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | \$0.00 | 9.14\% | 18.44 | 3.43 |
| Black Hills Corporation | BKH | \$66.70 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | \$0.00 | 8.06\% | 25.88 | 4.81 |
| CMS Energy Corporation | CMS | \$47.39 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | \$0.00 | 8.76\% | 20.54 | 3.82 |
| Dominion Energy, Inc. | D | \$79.20 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | \$0.00 | 8.48\% | 22.37 | 4.16 |
| DTE Energy Company | DTE | \$109.30 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | \$0.00 | 8.60\% | 21.53 | 4.00 |
| Duke Energy Corporation | DUK | \$85.84 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | \$0.00 | 8.33\% | 23.54 | 4.38 |
| El Paso Electric Company | EE | \$54.81 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | \$0.00 | 8.52\% | 22.09 | 4.11 |
| Hawaiian Electric Industries, Inc. | HE | \$34.21 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | \$0.00 | 9.44\% | 17.10 | 3.18 |
| IDACORP, Inc. | IDA | \$89.17 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | \$0.00 | 8.29\% | 23.85 | 4.43 |
| NorthWestern Corporation | NWE | \$60.36 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | \$0.00 | 8.64\% | 21.26 | 3.95 |
| OGE Energy Corp. | OGE | \$35.34 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | \$0.00 | 8.71\% | 20.82 | 3.87 |
| Otter Tail Corporation | OTTR | \$42.38 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | \$0.00 | 8.19\% | 24.72 | 4.60 |
| Pinnacle West Capital Corporation | PNW | \$87.50 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | \$0.00 | 8.33\% | 23.57 | 4.38 |
| PNM Resources, Inc. | PNM | \$40.68 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | \$0.00 | 8.40\% | 22.99 | 4.27 |
| Portland General Electric Company | POR | \$46.57 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | \$0.00 | 8.49\% | 22.34 | 4.15 |
| Southern Company | so | \$49.86 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | \$0.00 | 9.01\% | 19.13 | 3.56 |
| WEC Energy Group, Inc. | WEC | \$64.40 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | \$0.00 | 8.87\% | 19.91 | 3.70 |
| Xcel Energy Inc. | XEL | \$48.05 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | \$0.00 | 8.68\% | 21.06 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | Mea |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Ma | $9.44 \%$ |  |  |


| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | so | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | \$3.17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |


| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Schedule RBH-2
Page 17 of 37

| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Projected Annual

| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$159.39 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$88.83 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$125.17 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$149.51 |
| Black Hills Corporation | BKH | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$145.30 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$101.82 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$157.11 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$232.53 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$173.07 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$118.82 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$68.39 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$189.90 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$125.89 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$73.20 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$90.28 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$184.07 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$88.47 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$99.66 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$100.48 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$135.23 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$101.09 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6/30/31 | /30/32 |
| Company | ALEk | (\$74.84) | \$0.00 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$164.05 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$91.46 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$129.44 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$154.86 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$149.00 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$105.09 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$161.74 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$239.65 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$177.91 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$122.36 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$71.02 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$195.15 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$129.79 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$75.51 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$92.69 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$189.22 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$91.00 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$102.60 |
| Southern Company | SO | (\$49.86) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$103.95 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$139.70 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$104.25 |

Multi-Stage Growth Discounted Cash Flow Model - Terminal P/E
30 Day Average Stock Price
Rate Estimate in First Stage

| Inputs | [1] |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] [11] |  | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | rowth | Estima |  |  |  | ayout Rat |  | Iterative | Solution | Termin | Terminal |
|  | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$77.37 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.86\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.95 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.70\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$61.69 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.04\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$75.90 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 10.76\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$58.88 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 9.36\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.93 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.47\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$82.55 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 9.39\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$112.59 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.31\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.23 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.61\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$58.40 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.44\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$37.06 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 11.71\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$95.25 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.03\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$61.63 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 9.85\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$34.24 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 10.26\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$46.05 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.69\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.73 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.13\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$43.71 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.42\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.86 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.04\% | 23.56 | 4.38 |
| Southern Company | so | \$50.56 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.80\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$67.80 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.55\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$50.21 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.24\% | 23.56 | 4.38 |

$\begin{array}{cc}\text { Max } & \text { 11.71\% } \\ \text { Min } & 7.69 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$175.45 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$97.22 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$159.96 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$206.66 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$145.08 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$119.40 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$185.67 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$268.03 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$181.96 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$128.27 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$108.25 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$196.84 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$152.87 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$87.93 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$91.75 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$205.33 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$96.31 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$111.32 |
| Southern Company | so | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$134.20 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$163.33 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.20 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial | 122917 |  |  |  |  |  |  |  |  |  |  |  | 613028 | 613029 | $6 / 30130$ | $6 / 30131$ | 6 |
| ALLETE, Inc. | ALE | (\$77.37) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$180.35 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$99.94 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$164.43 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$212.45 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$149.14 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$122.74 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$190.86 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$275.53 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$187.05 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$131.85 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$111.28 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$202.35 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$157.15 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$90.39 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$94.32 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$211.07 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$99.00 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$114.43 |
| Southern Company | so | (\$50.56) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$137.95 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$167.90 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.48 |


| Inputs | $\frac{[1]}{\text { Stock }}$ |  | [2] | [3] | ${ }_{\text {[4] }}$ [5] |  | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Growth R |  |  |  | ayout Rai |  | Iterative | Solution | Terminal | Terminal |
|  |  |  |  |  |  | Value |  | High |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Line | Growth |  | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$77.37 | 7.20\% | 5.00\% | 5.00\% | 7.20\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.74\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.95 | 6.40\% | 7.05\% | 6.00\% | 7.05\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.04\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$61.69 | 7.00\% | 7.00\% | 6.00\% | 7.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.24\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$75.90 | 4.80\% | 2.77\% | 4.00\% | 4.80\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 11.36\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$58.88 | 4.90\% | 4.26\% | 7.50\% | 7.50\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 10.53\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.93 | 6.50\% | 7.44\% | 6.50\% | 7.44\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.85\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$82.55 | 5.60\% | 3.64\% | 6.50\% | 6.50\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 10.18\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$112.59 | 6.00\% | 4.91\% | 6.00\% | 6.00\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.53\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.23 | 4.00\% | 3.23\% | 4.50\% | 4.50\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.97\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$58.40 | 5.20\% | 5.30\% | 5.00\% | 5.30\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.52\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$37.06 | 4.20\% | 4.50\% | 1.50\% | 4.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 12.44\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$95.25 | 5.00\% | 4.00\% | 3.50\% | 5.00\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.53\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$61.63 | 1.50\% | 2.25\% | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 10.95\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$34.24 | 4.30\% | 3.90\% | 6.00\% | 6.00\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 11.06\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$46.05 | NA | 5.20\% | 7.00\% | 7.00\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 8.22\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.73 | 3.20\% | 5.46\% | 5.50\% | 5.50\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.60\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$43.71 | 5.50\% | 6.05\% | 7.50\% | 7.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.09\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.86 | 3.80\% | 4.00\% | 6.00\% | 6.00\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.90\% | 23.56 | 4.38 |
| Southern Company | so | \$50.56 | 4.50\% | 2.33\% | 3.50\% | 4.50\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 11.48\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$67.80 | 5.40\% | 5.27\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.82\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$50.21 | 5.50\% | NA | 4.50\% | 5.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.54\% | 23.56 | 4.38 |

$\begin{array}{cc}\text { Max } & 12.44 \% \\ \text { Min } & 8.22 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | ВКН | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | so | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.14 | \$3.33 | \$3.53 | \$3.74 | \$3.96 | \$4.19 | \$4.44 | \$4.69 | \$4.95 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.44 | \$6.79 | \$7.15 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.33 | \$2.46 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.21 | \$3.39 | \$3.57 | \$3.76 | \$3.97 | \$4.18 | \$4.40 | \$4.64 | \$4.89 | \$5.15 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$194.57 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$101.17 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$163.75 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$221.15 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$166.43 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$124.77 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$202.92 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$275.02 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$189.84 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$129.49 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.18 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$208.95 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$173.46 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$96.23 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$97.76 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$217.08 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$104.41 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$122.99 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$144.81 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$168.55 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$121.45 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outtlow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30/32 |
| ALLETE, Inc. | ALE | (\$77.37) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$200.01 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$104.00 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$168.33 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$227.33 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$171.08 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$128.26 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$208.60 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$282.72 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$195.15 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$133.11 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.46 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$214.79 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$178.32 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$98.92 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$100.50 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$223.15 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$107.33 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$126.43 |
| Southern Company | so | (\$50.56) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$148.86 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$173.26 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$124.85 |


| Inputs | [1] |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | Growth R | Estim |  |  |  | ayout Rat |  | Iterativ | Solution | Termin | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | $\begin{aligned} & \text { Low } \\ & \text { Growth } \end{aligned}$ | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$77.37 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.42\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.95 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.41\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$61.69 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 9.63\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$75.90 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 10.07\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$58.88 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 8.59\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.93 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.28\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$82.55 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 8.39\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$112.59 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 8.87\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.23 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.18\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$58.40 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.34\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$37.06 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 10.47\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$95.25 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 7.63\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$61.63 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 9.06\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$34.24 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.74\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$46.05 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.17\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.73 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.20\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$43.71 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 7.91\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.86 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.56\% | 23.56 | 4.38 |
| Southern Company | so | \$50.56 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.08\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$67.80 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.37\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$50.21 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.93\% | 23.56 | 4.38 |

$\begin{array}{cc}\text { Max } & \text { 10.47\% } \\ \text { Min } & 7.17 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | So | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | \$3.17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Projected Annual

| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$166.52 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$93.95 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$152.60 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$191.03 |
| Black Hills Corporation | ВКн | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$132.28 |
| CMS Energy Corporation | cms | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$116.80 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$165.46 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$254.51 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$173.23 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$126.75 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$94.24 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$187.60 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$139.51 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$82.83 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$86.07 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$184.04 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$90.68 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$105.10 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$123.77 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$160.03 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$113.08 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6/30/31 | 6/30/32 |
| Company | ALEk | (\$777.37) | 12/29/17 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$171.18 |
| Alliant Energy Corporation | LNT | (\$43.95) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$96.58 |
| Ameren Corporation | AEE | (\$61.69) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$156.87 |
| American Electric Power Company, Inc. | AEP | (\$75.90) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$196.37 |
| Black Hills Corporation | BKH | (\$58.88) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$135.98 |
| CMS Energy Corporation | CMS | (\$48.93) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$120.06 |
| Dominion Energy, Inc. | D | (\$82.55) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$170.09 |
| DTE Energy Company | DTE | (\$112.59) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$261.63 |
| Duke Energy Corporation | DUK | (\$87.23) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$178.08 |
| El Paso Electric Company | EE | (\$58.40) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$130.29 |
| Hawaiian Electric Industries, Inc. | HE | (\$37.06) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$96.88 |
| IDACORP, Inc. | IDA | (\$95.25) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$192.85 |
| NorthWestern Corporation | NWE | (\$61.63) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$143.42 |
| OGE Energy Corp. | OGE | (\$34.24) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$85.14 |
| Otter Tail Corporation | OTTR | (\$46.05) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$88.48 |
| Pinnacle West Capital Corporation | PNW | (\$88.73) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$189.19 |
| PNM Resources, Inc. | PNM | (\$43.71) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$93.21 |
| Portland General Electric Company | POR | (\$47.86) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$108.04 |
| Southern Company | so | (\$50.56) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$127.23 |
| WEC Energy Group, Inc. | WEC | (\$67.80) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$164.51 |
| Xcel Energy Inc. | XEL | (\$50.21) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$116.25 |

Multi-Stage Growth Discounted Cash Flow Model - Terminal P/E
90 Day Average Stock Price
Rate Estimate in First Stage

| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | Growth R | Estima |  | Long-Term |  | ayout Ratio |  | Iterative | Solution | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$77.72 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.82\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.28 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.84\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$60.87 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.16\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$74.10 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 10.99\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$64.26 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 8.58\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.25 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.60\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$80.26 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 9.67\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$111.40 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.41\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.07 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.62\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$57.15 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.63\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$35.42 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 12.18\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$92.20 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.32\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$59.96 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 10.11\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.55 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.90\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$44.86 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.93\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.35 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.16\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$42.64 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.64\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.20 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.17\% | 23.56 | 4.38 |
| Southern Company | So | \$50.41 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.83\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$66.46 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.74\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$49.41 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.39\% | 23.56 | 4.38 |

$\begin{array}{ll}\text { Max } & \text { 12.18\% } \\ \text { Min } & 7.93 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$175.45 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$97.22 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$159.96 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$206.66 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$145.08 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$119.40 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$185.67 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$268.03 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$181.96 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$128.27 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$108.25 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$196.84 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$152.87 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$87.93 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$91.75 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$205.33 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$96.31 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$111.32 |
| Southern Company | so | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$134.20 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$163.33 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.20 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial | 1212917 |  |  |  |  |  |  |  |  |  |  |  | 613028 | $6 / 30129$ | $6 / 30130$ | $6 / 30131$ | 6 |
| ALLETE, Inc. | ALE | (\$77.72) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$180.35 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$99.94 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$164.43 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$212.45 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$149.14 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$122.74 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$190.86 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$275.53 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$187.05 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$131.85 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$111.28 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$202.35 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$157.15 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$90.39 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$94.32 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$211.07 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$99.00 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$114.43 |
| Southern Company | So | (\$50.41) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$137.95 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$167.90 |
| Xcel Energy Inc. | XEL | (\$49.41) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.48 |


| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | Growth R | Estima |  | Long-Term |  | ayout Ration |  | Iterativ | Solution | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | High Growth | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio |  |
| ALLETE, Inc. | ALE | \$77.72 | 7.20\% | 5.00\% | 5.00\% | 7.20\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.70\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.28 | 6.40\% | 7.05\% | 6.00\% | 7.05\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.18\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$60.87 | 7.00\% | 7.00\% | 6.00\% | 7.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.37\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$74.10 | 4.80\% | 2.77\% | 4.00\% | 4.80\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 11.59\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$64.26 | 4.90\% | 4.26\% | 7.50\% | 7.50\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 9.74\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.25 | 6.50\% | 7.44\% | 6.50\% | 7.44\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.97\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$80.26 | 5.60\% | 3.64\% | 6.50\% | 6.50\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 10.45\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$111.40 | 6.00\% | 4.91\% | 6.00\% | 6.00\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.63\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.07 | 4.00\% | 3.23\% | 4.50\% | 4.50\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.99\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$57.15 | 5.20\% | 5.30\% | 5.00\% | 5.30\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.71\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$35.42 | 4.20\% | 4.50\% | 1.50\% | 4.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 12.91\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$92.20 | 5.00\% | 4.00\% | 3.50\% | 5.00\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.82\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$59.96 | 1.50\% | 2.25\% | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 11.22\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.55 | 4.30\% | 3.90\% | 6.00\% | 6.00\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 10.69\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$44.86 | NA | 5.20\% | 7.00\% | 7.00\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 8.46\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.35 | 3.20\% | 5.46\% | 5.50\% | 5.50\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.64\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$42.64 | 5.50\% | 6.05\% | 7.50\% | 7.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.32\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.20 | 3.80\% | 4.00\% | 6.00\% | 6.00\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 10.02\% | 23.56 | 4.38 |
| Southern Company | so | \$50.41 | 4.50\% | 2.33\% | 3.50\% | 4.50\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 11.51\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$66.46 | 5.40\% | 5.27\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 10.01\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$49.41 | 5.50\% | NA | 4.50\% | 5.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.69\% | 23.56 | 4.38 |
|  |  |  |  |  |  |  |  |  |  |  | Mean | 10.03\% 12.91\% 8 |  |  |

Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29 | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | Вкн | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | So | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.14 | \$3.33 | \$3.53 | \$3.74 | \$3.96 | \$4.19 | \$4.44 | \$4.69 | \$4.95 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.44 | \$6.79 | \$7.15 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.33 | \$2.46 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.21 | \$3.39 | \$3.57 | \$3.76 | \$3.97 | \$4.18 | \$4.40 | \$4.64 | \$4.89 | \$5.15 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$194.57 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$101.17 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$163.75 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$221.15 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$166.43 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$124.77 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$202.92 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$275.02 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$189.84 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$129.49 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.18 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$208.95 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$173.46 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$96.23 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$97.76 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$217.08 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$104.41 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$122.99 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$144.81 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$168.55 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$121.45 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial Outflow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30/32 |
| ALLETE, Inc. | ALE | (\$77.72) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$200.01 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$104.00 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$168.33 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$227.33 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$171.08 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$128.26 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$208.60 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$282.72 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$195.15 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$133.11 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.46 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$214.79 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$178.32 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$98.92 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$100.50 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$223.15 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$107.33 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$126.43 |
| Southern Company | So | (\$50.41) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$148.86 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$173.26 |
| Xcel Energy Inc. | XEL | (\$49.41) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$124.85 |


| Inputs | $\frac{[1]}{\text { Stock }}$ |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Growth R | Estim |  |  |  | ayout Rai |  | Iterative | Solution | Termin | Terminal |
|  |  |  |  |  | Value | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Line | Growth | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$77.72 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.38\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$43.28 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.55\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$60.87 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 9.76\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$74.10 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 10.30\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$64.26 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 7.81\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$48.25 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.41\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$80.26 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 8.66\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$111.40 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 8.97\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$87.07 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.20\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$57.15 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.54\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$35.42 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 10.92\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$92.20 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 7.92\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$59.96 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 9.32\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.55 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.38\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$44.86 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.40\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$88.35 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.24\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$42.64 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.13\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$47.20 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.68\% | 23.56 | 4.38 |
| Southern Company | so | \$50.41 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.11\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$66.46 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.56\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$49.41 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.08\% | 23.56 | 4.38 |

$\begin{array}{cc}\text { Max } & \text { 10.92\% } \\ \text { Min } & 7.40 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | so | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | \$3.17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Projected Annual

| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$166.52 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$93.95 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$152.60 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$191.03 |
| Black Hills Corporation | ВКн | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$132.28 |
| CMS Energy Corporation | cms | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$116.80 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$165.46 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$254.51 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$173.23 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$126.75 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$94.24 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$187.60 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$139.51 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$82.83 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$86.07 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$184.04 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$90.68 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$105.10 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$123.77 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$160.03 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$113.08 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6/30/31 | 6/30/32 |
| Company | ALEk | (\$77.72) | \$0.00 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$171.18 |
| Alliant Energy Corporation | LNT | (\$43.28) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$96.58 |
| Ameren Corporation | AEE | (\$60.87) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$156.87 |
| American Electric Power Company, Inc. | AEP | (\$74.10) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$196.37 |
| Black Hills Corporation | BKH | (\$64.26) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$135.98 |
| CMS Energy Corporation | CMS | (\$48.25) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$120.06 |
| Dominion Energy, Inc. | D | (\$80.26) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$170.09 |
| DTE Energy Company | DTE | (\$111.40) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$261.63 |
| Duke Energy Corporation | DUK | (\$87.07) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$178.08 |
| El Paso Electric Company | EE | (\$57.15) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$130.29 |
| Hawaiian Electric Industries, Inc. | HE | (\$35.42) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$96.88 |
| IDACORP, Inc. | IDA | (\$92.20) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$192.85 |
| NorthWestern Corporation | NWE | (\$59.96) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$143.42 |
| OGE Energy Corp. | OGE | (\$35.55) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$85.14 |
| Otter Tail Corporation | OTTR | (\$44.86) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$88.48 |
| Pinnacle West Capital Corporation | PNW | (\$88.35) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$189.19 |
| PNM Resources, Inc. | PNM | (\$42.64) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$93.21 |
| Portland General Electric Company | POR | (\$47.20) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$108.04 |
| Southern Company | so | (\$50.41) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$127.23 |
| WEC Energy Group, Inc. | WEC | (\$66.46) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$164.51 |
| Xcel Energy Inc. | XEL | (\$49.41) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$116.25 |

Multi-Stage Growth Discounted Cash Flow Model - Terminal P/E
180 Day Average Stock Price
EPS Growt Ratimate in First Stage

| Inputs | [1] |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] [11] |  | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock |  | rowth | Estim |  |  |  | ayout Rat |  | Iterativ | Solution | Termin | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$74.84 | 7.20\% | 5.00\% | 5.00\% | 5.73\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.16\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$41.99 | 6.40\% | 7.05\% | 6.00\% | 6.48\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.12\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$58.43 | 7.00\% | 7.00\% | 6.00\% | 6.67\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.55\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$72.02 | 4.80\% | 2.77\% | 4.00\% | 3.86\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 11.27\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$66.70 | 4.90\% | 4.26\% | 7.50\% | 5.55\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 8.25\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$47.39 | 6.50\% | 7.44\% | 6.50\% | 6.81\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.76\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$79.20 | 5.60\% | 3.64\% | 6.50\% | 5.25\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 9.79\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$109.30 | 6.00\% | 4.91\% | 6.00\% | 5.64\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.58\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$85.84 | 4.00\% | 3.23\% | 4.50\% | 3.91\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.76\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$54.81 | 5.20\% | 5.30\% | 5.00\% | 5.17\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.01\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$34.21 | 4.20\% | 4.50\% | 1.50\% | 3.40\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 12.54\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$89.17 | 5.00\% | 4.00\% | 3.50\% | 4.17\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.62\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$60.36 | 1.50\% | 2.25\% | 4.50\% | 2.75\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 10.04\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.34 | 4.30\% | 3.90\% | 6.00\% | 4.73\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.96\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$42.38 | NA | 5.20\% | 7.00\% | 6.10\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 8.43\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$87.50 | 3.20\% | 5.46\% | 5.50\% | 4.72\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.25\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$40.68 | 5.50\% | 6.05\% | 7.50\% | 6.35\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.05\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$46.57 | 3.80\% | 4.00\% | 6.00\% | 4.60\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.29\% | 23.56 | 4.38 |
| Southern Company | so | \$49.86 | 4.50\% | 2.33\% | 3.50\% | 3.44\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.94\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$64.40 | 5.40\% | 5.27\% | 6.00\% | 5.56\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 10.03\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$48.05 | 5.50\% | NA | 4.50\% | 5.00\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.65\% | 23.56 | 4.38 |

$\begin{array}{ll}\text { Max } & 12.54 \% \\ \text { Min } & 8.25 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.32 | \$3.51 | \$3.71 | \$3.92 | \$4.15 | \$4.38 | \$4.63 | \$4.89 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 | \$7.45 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.76 | \$1.87 | \$1.99 | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.70 | \$2.85 | \$3.01 | \$3.18 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.68 | \$2.86 | \$3.05 | \$3.25 | \$3.47 | \$3.70 | \$3.94 | \$4.19 | \$4.44 | \$4.69 | \$4.96 | \$5.22 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.79 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.39 | \$4.56 | \$4.74 | \$4.92 | \$5.11 | \$5.32 | \$5.55 | \$5.81 | \$6.09 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$7.90 | \$8.32 | \$8.77 |
| Black Hills Corporation | BKH | \$2.63 | \$2.78 | \$2.93 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.84 | \$4.05 | \$4.27 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.26 | \$2.41 | \$2.58 | \$2.75 | \$2.93 | \$3.12 | \$3.31 | \$3.50 | \$3.70 | \$3.90 | \$4.11 | \$4.33 | \$4.56 | \$4.81 | \$5.07 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.44 | \$4.68 | \$4.92 | \$5.19 | \$5.46 | \$5.75 | \$6.06 | \$6.39 | \$6.73 | \$7.10 | \$7.48 | \$7.88 |
| DTE Energy Company | DTE | \$4.83 | \$5.10 | \$5.39 | \$5.69 | \$6.01 | \$6.35 | \$6.71 | \$7.08 | \$7.47 | \$7.88 | \$8.31 | \$8.75 | \$9.22 | \$9.72 | \$10.24 | \$10.79 | \$11.37 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.86 | \$4.01 | \$4.16 | \$4.33 | \$4.49 | \$4.68 | \$4.89 | \$5.11 | \$5.36 | \$5.64 | \$5.94 | \$6.26 | \$6.60 | \$6.95 | \$7.33 | \$7.72 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.64 | \$2.78 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.17 | \$5.44 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.37 | \$2.45 | \$2.53 | \$2.62 | \$2.71 | \$2.81 | \$2.92 | \$3.05 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.10 | \$4.28 | \$4.45 | \$4.64 | \$4.83 | \$5.04 | \$5.27 | \$5.53 | \$5.80 | \$6.10 | \$6.43 | \$6.77 | \$7.14 | \$7.52 | \$7.93 | \$8.35 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.48 | \$3.58 | \$3.68 | \$3.78 | \$3.88 | \$4.01 | \$4.15 | \$4.32 | \$4.51 | \$4.74 | \$4.99 | \$5.26 | \$5.54 | \$5.84 | \$6.16 | \$6.49 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.77 | \$1.85 | \$1.94 | \$2.03 | \$2.13 | \$2.23 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.70 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.28 | \$2.41 | \$2.55 | \$2.70 | \$2.84 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.89 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.14 | \$4.33 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.47 | \$5.75 | \$6.05 | \$6.36 | \$6.71 | \$7.07 | \$7.45 | \$7.85 | \$8.27 | \$8.71 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.75 | \$1.87 | \$1.98 | \$2.11 | \$2.24 | \$2.38 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.09 |
| Portland General Electric Company | POR | \$2.16 | \$2.26 | \$2.36 | \$2.47 | \$2.59 | \$2.70 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.72 |
| Southern Company | so | \$2.83 | \$2.93 | \$3.03 | \$3.13 | \$3.24 | \$3.35 | \$3.48 | \$3.62 | \$3.78 | \$3.96 | \$4.16 | \$4.38 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$5.70 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.30 | \$3.48 | \$3.67 | \$3.88 | \$4.09 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 | \$6.24 | \$6.58 | \$6.93 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.32 | \$2.44 | \$2.56 | \$2.69 | \$2.82 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.09 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$175.45 |
| Alliant Energy Corporation | LNT | \$1.16 | \$1.23 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$2.72 | \$97.22 |
| Ameren Corporation | AEE | \$1.83 | \$1.92 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$159.96 |
| American Electric Power Company, Inc. | AEP | \$3.03 | \$3.08 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$206.66 |
| Black Hills Corporation | BKH | \$1.42 | \$1.49 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$145.08 |
| CMS Energy Corporation | CMS | \$1.29 | \$1.38 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$3.34 | \$119.40 |
| Dominion Energy, Inc. | D | \$3.01 | \$3.20 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$185.67 |
| DTE Energy Company | DTE | \$2.86 | \$3.13 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.50 | \$268.03 |
| Duke Energy Corporation | DUK | \$3.12 | \$3.22 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$5.09 | \$181.96 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.59 | \$128.27 |
| Hawaiian Electric Industries, Inc. | HE | \$1.82 | \$1.84 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$108.25 |
| IDACORP, Inc. | IDA | \$2.22 | \$2.38 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.51 | \$196.84 |
| NorthWestern Corporation | NWE | \$2.16 | \$2.22 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$4.28 | \$152.87 |
| OGE Energy Corp. | OGE | \$1.19 | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$87.93 |
| Otter Tail Corporation | OTTR | \$1.22 | \$1.23 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$2.57 | \$91.75 |
| Pinnacle West Capital Corporation | PNW | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$205.33 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.94 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$96.31 |
| Portland General Electric Company | POR | \$1.33 | \$1.38 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$111.32 |
| Southern Company | so | \$2.20 | \$2.26 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$3.75 | \$134.20 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.18 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$4.57 | \$163.33 |
| Xcel Energy Inc. | XEL | \$1.44 | \$1.54 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.20 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial | 122917 |  |  |  |  |  |  |  |  |  |  |  | 613028 | 613029 | $6 / 30130$ | $6 / 30131$ | 6 |
| ALLETE, Inc. | ALE | (\$74.84) | \$0.00 | \$0.01 | \$2.15 | \$2.30 | \$2.41 | \$2.53 | \$2.71 | \$2.90 | \$3.10 | \$3.31 | \$3.54 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$180.35 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.20 | \$1.31 | \$1.40 | \$1.49 | \$1.58 | \$1.68 | \$1.78 | \$1.88 | \$1.99 | \$2.09 | \$2.21 | \$2.32 | \$2.45 | \$2.58 | \$99.94 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.89 | \$2.02 | \$2.12 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$3.00 | \$3.22 | \$3.44 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$164.43 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.09 | \$3.13 | \$3.17 | \$3.22 | \$3.38 | \$3.55 | \$3.74 | \$3.96 | \$4.19 | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$212.45 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.46 | \$1.58 | \$1.66 | \$1.76 | \$1.94 | \$2.15 | \$2.36 | \$2.60 | \$2.85 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$149.14 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.33 | \$1.47 | \$1.57 | \$1.68 | \$1.81 | \$1.95 | \$2.10 | \$2.25 | \$2.41 | \$2.57 | \$2.71 | \$2.85 | \$3.01 | \$3.17 | \$122.74 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.08 | \$3.41 | \$3.63 | \$3.86 | \$3.90 | \$3.94 | \$3.96 | \$3.98 | \$3.99 | \$4.00 | \$4.21 | \$4.44 | \$4.68 | \$4.93 | \$190.86 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.94 | \$3.42 | \$3.73 | \$4.07 | \$4.32 | \$4.58 | \$4.85 | \$5.14 | \$5.45 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$275.53 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.18 | \$3.33 | \$3.44 | \$3.55 | \$3.60 | \$3.65 | \$3.71 | \$3.77 | \$3.84 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 | \$187.05 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.75 | \$1.89 | \$2.04 | \$2.20 | \$2.38 | \$2.56 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$131.85 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.85 | \$1.86 | \$1.88 | \$1.89 | \$1.95 | \$2.01 | \$2.07 | \$2.15 | \$2.23 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$111.28 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.26 | \$2.56 | \$2.75 | \$2.95 | \$3.12 | \$3.30 | \$3.51 | \$3.73 | \$3.97 | \$4.24 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$202.35 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.19 | \$2.28 | \$2.34 | \$2.41 | \$2.51 | \$2.63 | \$2.76 | \$2.92 | \$3.09 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.06 | \$157.15 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.21 | \$1.33 | \$1.41 | \$1.49 | \$1.55 | \$1.61 | \$1.67 | \$1.74 | \$1.81 | \$1.89 | \$1.99 | \$2.10 | \$2.21 | \$2.33 | \$90.39 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.26 | \$1.24 | \$1.25 | \$1.25 | \$1.35 | \$1.46 | \$1.58 | \$1.71 | \$1.84 | \$1.97 | \$2.08 | \$2.19 | \$2.31 | \$2.44 | \$94.32 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.67 | \$2.86 | \$2.99 | \$3.13 | \$3.31 | \$3.50 | \$3.71 | \$3.93 | \$4.16 | \$4.42 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$211.07 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.87 | \$1.04 | \$1.16 | \$1.28 | \$1.39 | \$1.52 | \$1.64 | \$1.78 | \$1.92 | \$2.07 | \$2.18 | \$2.30 | \$2.43 | \$2.56 | \$99.00 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.36 | \$1.43 | \$1.49 | \$1.54 | \$1.66 | \$1.78 | \$1.92 | \$2.06 | \$2.22 | \$2.40 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$114.43 |
| Southern Company | So | (\$49.86) | \$0.00 | \$0.01 | \$2.23 | \$2.32 | \$2.38 | \$2.45 | \$2.50 | \$2.56 | \$2.63 | \$2.70 | \$2.79 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$137.95 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.12 | \$2.32 | \$2.45 | \$2.60 | \$2.74 | \$2.88 | \$3.03 | \$3.18 | \$3.35 | \$3.52 | \$3.70 | \$3.90 | \$4.11 | \$4.34 | \$167.90 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.47 | \$1.64 | \$1.75 | \$1.86 | \$1.96 | \$2.06 | \$2.16 | \$2.27 | \$2.39 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.48 |


| Inputs | $\frac{[1]}{\text { Stock }}$ |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] [11] |  | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Growth R | Estima |  |  |  | ayout Ratio |  | terative | Solution | Terminal | erminal |
|  |  |  |  |  | Value | High |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Line | Growth | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$74.84 | 7.20\% | 5.00\% | 5.00\% | 7.20\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 10.05\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$41.99 | 6.40\% | 7.05\% | 6.00\% | 7.05\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.46\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$58.43 | 7.00\% | 7.00\% | 6.00\% | 7.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.75\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$72.02 | 4.80\% | 2.77\% | 4.00\% | 4.80\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 11.87\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$66.70 | 4.90\% | 4.26\% | 7.50\% | 7.50\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 9.40\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$47.39 | 6.50\% | 7.44\% | 6.50\% | 7.44\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 10.14\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$79.20 | 5.60\% | 3.64\% | 6.50\% | 6.50\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 10.58\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$109.30 | 6.00\% | 4.91\% | 6.00\% | 6.00\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.81\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$85.84 | 4.00\% | 3.23\% | 4.50\% | 4.50\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 9.12\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$54.81 | 5.20\% | 5.30\% | 5.00\% | 5.30\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.09\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$34.21 | 4.20\% | 4.50\% | 1.50\% | 4.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 13.27\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$89.17 | 5.00\% | 4.00\% | 3.50\% | 5.00\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.13\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$60.36 | 1.50\% | 2.25\% | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 11.15\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.34 | 4.30\% | 3.90\% | 6.00\% | 6.00\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 10.75\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$42.38 | NA | 5.20\% | 7.00\% | 7.00\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 8.97\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$87.50 | 3.20\% | 5.46\% | 5.50\% | 5.50\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 9.73\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$40.68 | 5.50\% | 6.05\% | 7.50\% | 7.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 9.74\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$46.57 | 3.80\% | 4.00\% | 6.00\% | 6.00\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 10.15\% | 23.56 | 4.38 |
| Southern Company | so | \$49.86 | 4.50\% | 2.33\% | 3.50\% | 4.50\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 11.62\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$64.40 | 5.40\% | 5.27\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 10.31\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$48.05 | 5.50\% | NA | 4.50\% | 5.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.95\% | 23.56 | 4.38 |

$\begin{array}{ll}\text { Max } & 13.27 \% \\ \text { Min } & 8.97 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29 | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.37 | \$3.61 | \$3.87 | \$4.15 | \$4.45 | \$4.75 | \$5.07 | \$5.38 | \$5.71 | \$6.03 | \$6.35 | \$6.70 | \$7.06 | \$7.44 | \$7.84 | \$8.26 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.77 | \$1.89 | \$2.02 | \$2.17 | \$2.32 | \$2.48 | \$2.64 | \$2.80 | \$2.97 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.87 | \$4.07 | \$4.29 |
| Ameren Corporation | AEE | \$2.68 | \$2.87 | \$3.07 | \$3.28 | \$3.51 | \$3.76 | \$4.01 | \$4.27 | \$4.54 | \$4.80 | \$5.08 | \$5.35 | \$5.64 | \$5.94 | \$6.26 | \$6.59 | \$6.95 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.43 | \$4.65 | \$4.87 | \$5.10 | \$5.35 | \$5.61 | \$5.89 | \$6.19 | \$6.51 | \$6.85 | \$7.22 | \$7.61 | \$8.02 | \$8.45 | \$8.91 | \$9.39 |
| Black Hills Corporation | Вкн | \$2.63 | \$2.83 | \$3.04 | \$3.27 | \$3.51 | \$3.78 | \$4.05 | \$4.32 | \$4.60 | \$4.88 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.70 | \$7.06 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.04 | \$3.24 | \$3.45 | \$3.66 | \$3.87 | \$4.07 | \$4.29 | \$4.53 | \$4.77 | \$5.02 | \$5.30 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.66 | \$3.90 | \$4.16 | \$4.43 | \$4.71 | \$5.01 | \$5.32 | \$5.63 | \$5.96 | \$6.29 | \$6.63 | \$6.98 | \$7.36 | \$7.76 | \$8.17 | \$8.61 |
| DTE Energy Company | DTE | \$4.83 | \$5.12 | \$5.43 | \$5.75 | \$6.10 | \$6.46 | \$6.84 | \$7.24 | \$7.65 | \$8.08 | \$8.52 | \$8.98 | \$9.47 | \$9.97 | \$10.51 | \$11.08 | \$11.67 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.88 | \$4.05 | \$4.23 | \$4.42 | \$4.62 | \$4.84 | \$5.07 | \$5.32 | \$5.59 | \$5.88 | \$6.20 | \$6.53 | \$6.88 | \$7.26 | \$7.65 | \$8.06 |
| El Paso Electric Company | EE | \$2.39 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.09 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.21 | \$5.50 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.39 | \$2.50 | \$2.61 | \$2.73 | \$2.85 | \$2.99 | \$3.13 | \$3.28 | \$3.45 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$4.72 | \$4.97 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.14 | \$4.34 | \$4.56 | \$4.79 | \$5.03 | \$5.28 | \$5.55 | \$5.84 | \$6.15 | \$6.48 | \$6.82 | \$7.19 | \$7.58 | \$7.99 | \$8.42 | \$8.87 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.54 | \$3.70 | \$3.87 | \$4.04 | \$4.22 | \$4.42 | \$4.63 | \$4.86 | \$5.11 | \$5.38 | \$5.67 | \$5.97 | \$6.29 | \$6.63 | \$6.99 | \$7.36 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$3.68 | \$3.88 | \$4.08 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.24 | \$2.40 | \$2.55 | \$2.71 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$3.74 | \$3.94 | \$4.15 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.17 | \$4.40 | \$4.64 | \$4.89 | \$5.16 | \$5.45 | \$5.74 | \$6.06 | \$6.38 | \$6.73 | \$7.09 | \$7.47 | \$7.87 | \$8.30 | \$8.74 | \$9.21 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.77 | \$1.91 | \$2.05 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.89 | \$3.06 | \$3.24 | \$3.41 | \$3.59 | \$3.79 | \$3.99 | \$4.21 | \$4.43 |
| Portland General Electric Company | POR | \$2.16 | \$2.29 | \$2.43 | \$2.57 | \$2.73 | \$2.89 | \$3.06 | \$3.24 | \$3.42 | \$3.61 | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.95 | \$5.22 |
| Southern Company | So | \$2.83 | \$2.96 | \$3.09 | \$3.23 | \$3.37 | \$3.53 | \$3.69 | \$3.87 | \$4.06 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.14 | \$3.33 | \$3.53 | \$3.74 | \$3.96 | \$4.19 | \$4.44 | \$4.69 | \$4.95 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.44 | \$6.79 | \$7.15 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.33 | \$2.46 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.21 | \$3.39 | \$3.57 | \$3.76 | \$3.97 | \$4.18 | \$4.40 | \$4.64 | \$4.89 | \$5.15 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.12 | \$2.26 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.44 | \$194.57 |
| Alliant Energy Corporation | LNT | \$1.17 | \$1.25 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$101.17 |
| Ameren Corporation | AEE | \$1.84 | \$1.93 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$4.58 | \$163.75 |
| American Electric Power Company, Inc. | AEP | \$3.06 | \$3.14 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$6.19 | \$221.15 |
| Black Hills Corporation | BKH | \$1.44 | \$1.55 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$4.65 | \$166.43 |
| CMS Energy Corporation | CMS | \$1.30 | \$1.39 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$3.49 | \$124.77 |
| Dominion Energy, Inc. | D | \$3.04 | \$3.28 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$5.68 | \$202.92 |
| DTE Energy Company | DTE | \$2.87 | \$3.15 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$275.02 |
| Duke Energy Corporation | DUK | \$3.14 | \$3.26 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$5.31 | \$189.84 |
| El Paso Electric Company | EE | \$1.26 | \$1.37 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$3.62 | \$129.49 |
| Hawaiian Electric Industries, Inc. | HE | \$1.84 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$3.28 | \$117.18 |
| IDACORP, Inc. | IDA | \$2.23 | \$2.42 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$5.84 | \$208.95 |
| NorthWestern Corporation | NWE | \$2.20 | \$2.30 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$4.85 | \$173.46 |
| OGE Energy Corp. | OGE | \$1.20 | \$1.29 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$96.23 |
| Otter Tail Corporation | OTTR | \$1.23 | \$1.25 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$97.76 |
| Pinnacle West Capital Corporation | PNW | \$2.63 | \$2.77 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$6.07 | \$217.08 |
| PNM Resources, Inc. | PNM | \$0.85 | \$0.96 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$104.41 |
| Portland General Electric Company | POR | \$1.35 | \$1.42 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$122.99 |
| Southern Company | so | \$2.22 | \$2.30 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$144.81 |
| WEC Energy Group, Inc. | WEC | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$168.55 |
| Xcel Energy Inc. | XEL | \$1.45 | \$1.55 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$3.40 | \$121.45 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | Initial Outflow | 12/29/17 | 12/31/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 | 6/30/32 |
| ALLETE, Inc. | ALE | (\$74.84) | \$0.00 | \$0.01 | \$2.20 | \$2.40 | \$2.55 | \$2.71 | \$2.94 | \$3.17 | \$3.42 | \$3.67 | \$3.92 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$200.01 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.21 | \$1.34 | \$1.43 | \$1.53 | \$1.63 | \$1.74 | \$1.85 | \$1.96 | \$2.07 | \$2.18 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$104.00 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.90 | \$2.04 | \$2.14 | \$2.26 | \$2.45 | \$2.65 | \$2.86 | \$3.07 | \$3.29 | \$3.52 | \$3.71 | \$3.91 | \$4.12 | \$4.35 | \$168.33 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.13 | \$3.21 | \$3.29 | \$3.37 | \$3.56 | \$3.77 | \$3.99 | \$4.23 | \$4.48 | \$4.76 | \$5.02 | \$5.29 | \$5.57 | \$5.87 | \$227.33 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.50 | \$1.67 | \$1.79 | \$1.93 | \$2.16 | \$2.42 | \$2.69 | \$2.97 | \$3.27 | \$3.58 | \$3.77 | \$3.98 | \$4.19 | \$4.42 | \$171.08 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.35 | \$1.50 | \$1.61 | \$1.73 | \$1.88 | \$2.03 | \$2.19 | \$2.35 | \$2.52 | \$2.69 | \$2.83 | \$2.98 | \$3.14 | \$3.31 | \$128.26 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.14 | \$3.53 | \$3.81 | \$4.10 | \$4.18 | \$4.25 | \$4.31 | \$4.35 | \$4.37 | \$4.37 | \$4.60 | \$4.85 | \$5.11 | \$5.39 | \$208.60 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.95 | \$3.45 | \$3.78 | \$4.14 | \$4.40 | \$4.68 | \$4.97 | \$5.27 | \$5.59 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$282.72 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.21 | \$3.39 | \$3.52 | \$3.65 | \$3.72 | \$3.78 | \$3.85 | \$3.93 | \$4.01 | \$4.09 | \$4.31 | \$4.54 | \$4.78 | \$5.04 | \$195.15 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.49 | \$1.62 | \$1.76 | \$1.91 | \$2.06 | \$2.22 | \$2.40 | \$2.59 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.44 | \$133.11 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.88 | \$1.92 | \$1.96 | \$2.00 | \$2.07 | \$2.15 | \$2.23 | \$2.32 | \$2.42 | \$2.52 | \$2.66 | \$2.80 | \$2.95 | \$3.11 | \$120.46 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.29 | \$2.62 | \$2.84 | \$3.07 | \$3.27 | \$3.48 | \$3.71 | \$3.95 | \$4.22 | \$4.50 | \$4.74 | \$4.99 | \$5.26 | \$5.55 | \$214.79 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.25 | \$2.40 | \$2.51 | \$2.62 | \$2.77 | \$2.93 | \$3.11 | \$3.30 | \$3.51 | \$3.73 | \$3.93 | \$4.15 | \$4.37 | \$4.60 | \$178.32 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.24 | \$1.38 | \$1.48 | \$1.58 | \$1.66 | \$1.74 | \$1.82 | \$1.90 | \$1.99 | \$2.07 | \$2.18 | \$2.30 | \$2.42 | \$2.55 | \$98.92 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.28 | \$1.27 | \$1.29 | \$1.30 | \$1.42 | \$1.55 | \$1.68 | \$1.81 | \$1.96 | \$2.10 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$100.50 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.70 | \$2.92 | \$3.08 | \$3.25 | \$3.46 | \$3.67 | \$3.90 | \$4.15 | \$4.40 | \$4.67 | \$4.92 | \$5.19 | \$5.47 | \$5.76 | \$223.15 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.88 | \$1.08 | \$1.21 | \$1.35 | \$1.48 | \$1.63 | \$1.77 | \$1.93 | \$2.08 | \$2.25 | \$2.37 | \$2.50 | \$2.63 | \$2.77 | \$107.33 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.39 | \$1.49 | \$1.57 | \$1.65 | \$1.79 | \$1.94 | \$2.10 | \$2.27 | \$2.46 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$126.43 |
| Southern Company | So | (\$49.86) | \$0.00 | \$0.01 | \$2.27 | \$2.39 | \$2.48 | \$2.57 | \$2.65 | \$2.73 | \$2.82 | \$2.91 | \$3.01 | \$3.12 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$148.86 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.13 | \$2.34 | \$2.49 | \$2.65 | \$2.80 | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.25 | \$4.47 | \$173.26 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.49 | \$1.66 | \$1.78 | \$1.91 | \$2.01 | \$2.12 | \$2.23 | \$2.35 | \$2.48 | \$2.61 | \$2.75 | \$2.90 | \$3.06 | \$3.22 | \$124.85 |


| Inputs | $\frac{[1]}{\text { Stock }}$ |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Growth R | Estim |  |  |  | ayout Rai |  | Iterative | Solution | Termin | Terminal |
|  |  |  |  |  | Value | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Line | Growth | Growth | 2017 | 2021 | 2027 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$74.84 | 7.20\% | 5.00\% | 5.00\% | 5.00\% | 5.38\% | 63.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.72\% | 23.56 | 4.38 |
| Alliant Energy Corporation | LNT | \$41.99 | 6.40\% | 7.05\% | 6.00\% | 6.00\% | 5.38\% | 66.00\% | 66.00\% | 65.91\% | (\$0.00) | 8.83\% | 23.56 | 4.38 |
| Ameren Corporation | AEE | \$58.43 | 7.00\% | 7.00\% | 6.00\% | 6.00\% | 5.38\% | 64.00\% | 60.00\% | 65.91\% | (\$0.00) | 10.14\% | 23.56 | 4.38 |
| American Electric Power Company, Inc. | AEP | \$72.02 | 4.80\% | 2.77\% | 4.00\% | 2.77\% | 5.38\% | 69.00\% | 63.00\% | 65.91\% | (\$0.00) | 10.57\% | 23.56 | 4.38 |
| Black Hills Corporation | BKH | \$66.70 | 4.90\% | 4.26\% | 7.50\% | 4.26\% | 5.38\% | 51.00\% | 51.00\% | 65.91\% | (\$0.00) | 7.49\% | 23.56 | 4.38 |
| CMS Energy Corporation | CMS | \$47.39 | 6.50\% | 7.44\% | 6.50\% | 6.50\% | 5.38\% | 61.00\% | 61.00\% | 65.91\% | (\$0.00) | 9.57\% | 23.56 | 4.38 |
| Dominion Energy, Inc. | D | \$79.20 | 5.60\% | 3.64\% | 6.50\% | 3.64\% | 5.38\% | 83.00\% | 87.00\% | 65.91\% | (\$0.00) | 8.79\% | 23.56 | 4.38 |
| DTE Energy Company | DTE | \$109.30 | 6.00\% | 4.91\% | 6.00\% | 4.91\% | 5.38\% | 56.00\% | 64.00\% | 65.91\% | (\$0.00) | 9.14\% | 23.56 | 4.38 |
| Duke Energy Corporation | DUK | \$85.84 | 4.00\% | 3.23\% | 4.50\% | 3.23\% | 5.38\% | 81.00\% | 79.00\% | 65.91\% | (\$0.00) | 8.33\% | 23.56 | 4.38 |
| El Paso Electric Company | EE | \$54.81 | 5.20\% | 5.30\% | 5.00\% | 5.00\% | 5.38\% | 50.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.91\% | 23.56 | 4.38 |
| Hawaiian Electric Industries, Inc. | HE | \$34.21 | 4.20\% | 4.50\% | 1.50\% | 1.50\% | 5.38\% | 77.00\% | 70.00\% | 65.91\% | (\$0.00) | 11.27\% | 23.56 | 4.38 |
| IDACORP, Inc. | IDA | \$89.17 | 5.00\% | 4.00\% | 3.50\% | 3.50\% | 5.38\% | 54.00\% | 61.00\% | 65.91\% | (\$0.00) | 8.22\% | 23.56 | 4.38 |
| NorthWestern Corporation | NWE | \$60.36 | 1.50\% | 2.25\% | 4.50\% | 1.50\% | 5.38\% | 62.00\% | 62.00\% | 65.91\% | (\$0.00) | 9.25\% | 23.56 | 4.38 |
| OGE Energy Corp. | OGE | \$35.34 | 4.30\% | 3.90\% | 6.00\% | 3.90\% | 5.38\% | 67.00\% | 70.00\% | 65.91\% | (\$0.00) | 9.44\% | 23.56 | 4.38 |
| Otter Tail Corporation | OTTR | \$42.38 | NA | 5.20\% | 7.00\% | 5.20\% | 5.38\% | 72.00\% | 58.00\% | 65.91\% | (\$0.00) | 7.90\% | 23.56 | 4.38 |
| Pinnacle West Capital Corporation | PNW | \$87.50 | 3.20\% | 5.46\% | 5.50\% | 3.20\% | 5.38\% | 63.00\% | 63.00\% | 65.91\% | (\$0.00) | 8.32\% | 23.56 | 4.38 |
| PNM Resources, Inc. | PNM | \$40.68 | 5.50\% | 6.05\% | 7.50\% | 5.50\% | 5.38\% | 48.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.55\% | 23.56 | 4.38 |
| Portland General Electric Company | POR | \$46.57 | 3.80\% | 4.00\% | 6.00\% | 3.80\% | 5.38\% | 59.00\% | 57.00\% | 65.91\% | (\$0.00) | 8.80\% | 23.56 | 4.38 |
| Southern Company | so | \$49.86 | 4.50\% | 2.33\% | 3.50\% | 2.33\% | 5.38\% | 75.00\% | 73.00\% | 65.91\% | (\$0.00) | 10.22\% | 23.56 | 4.38 |
| WEC Energy Group, Inc. | WEC | \$64.40 | 5.40\% | 5.27\% | 6.00\% | 5.27\% | 5.38\% | 66.00\% | 67.00\% | 65.91\% | (\$0.00) | 9.86\% | 23.56 | 4.38 |
| Xcel Energy Inc. | XEL | \$48.05 | 5.50\% | NA | 4.50\% | 4.50\% | 5.38\% | 62.00\% | 66.00\% | 65.91\% | (\$0.00) | 9.34\% | 23.56 | 4.38 |

$\begin{array}{ll}\text { Max } & \text { 11.27\% } \\ \text { Min } & 7.49 \%\end{array}$
Projected Annual

| Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | \$3.14 | \$3.30 | \$3.46 | \$3.63 | \$3.82 | \$4.01 | \$4.21 | \$4.43 | \$4.66 | \$4.90 | \$5.16 | \$5.44 | \$5.73 | \$6.04 | \$6.36 | \$6.71 | \$7.07 |
| Alliant Energy Corporation | LNT | \$1.65 | \$1.75 | \$1.85 | \$1.97 | \$2.08 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.99 |
| Ameren Corporation | AEE | \$2.68 | \$2.84 | \$3.01 | \$3.19 | \$3.38 | \$3.59 | \$3.80 | \$4.02 | \$4.25 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$5.53 | \$5.83 | \$6.15 | \$6.48 |
| American Electric Power Company, Inc. | AEP | \$4.23 | \$4.35 | \$4.47 | \$4.59 | \$4.72 | \$4.85 | \$5.00 | \$5.19 | \$5.40 | \$5.64 | \$5.92 | \$6.24 | \$6.57 | \$6.93 | \$7.30 | \$7.69 | \$8.11 |
| Black Hills Corporation | BKH | \$2.63 | \$2.74 | \$2.86 | \$2.98 | \$3.11 | \$3.24 | \$3.38 | \$3.54 | \$3.71 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.80 | \$5.06 | \$5.33 | \$5.61 |
| CMS Energy Corporation | CMS | \$1.98 | \$2.11 | \$2.25 | \$2.39 | \$2.55 | \$2.71 | \$2.88 | \$3.06 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.24 | \$4.46 | \$4.70 | \$4.96 |
| Dominion Energy, Inc. | D | \$3.44 | \$3.57 | \$3.69 | \$3.83 | \$3.97 | \$4.11 | \$4.27 | \$4.46 | \$4.66 | \$4.88 | \$5.13 | \$5.40 | \$5.69 | \$6.00 | \$6.32 | \$6.66 | \$7.02 |
| DTE Energy Company | DTE | \$4.83 | \$5.07 | \$5.32 | \$5.58 | \$5.85 | \$6.14 | \$6.44 | \$6.77 | \$7.12 | \$7.49 | \$7.89 | \$8.31 | \$8.76 | \$9.23 | \$9.73 | \$10.25 | \$10.80 |
| Duke Energy Corporation | DUK | \$3.71 | \$3.83 | \$3.95 | \$4.08 | \$4.21 | \$4.35 | \$4.51 | \$4.68 | \$4.88 | \$5.11 | \$5.37 | \$5.66 | \$5.96 | \$6.28 | \$6.62 | \$6.98 | \$7.35 |
| El Paso Electric Company | EE | \$2.39 | \$2.51 | \$2.63 | \$2.77 | \$2.91 | \$3.05 | \$3.20 | \$3.37 | \$3.54 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.84 | \$5.10 | \$5.38 |
| Hawaiian Electric Industries, Inc. | HE | \$2.29 | \$2.32 | \$2.36 | \$2.39 | \$2.43 | \$2.47 | \$2.52 | \$2.59 | \$2.68 | \$2.79 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$3.60 | \$3.80 | \$4.00 |
| IDACORP, Inc. | IDA | \$3.94 | \$4.08 | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.86 | \$5.06 | \$5.28 | \$5.53 | \$5.81 | \$6.13 | \$6.46 | \$6.80 | \$7.17 | \$7.56 | \$7.96 |
| NorthWestern Corporation | NWE | \$3.39 | \$3.44 | \$3.49 | \$3.54 | \$3.60 | \$3.65 | \$3.73 | \$3.83 | \$3.97 | \$4.13 | \$4.32 | \$4.56 | \$4.80 | \$5.06 | \$5.33 | \$5.62 | \$5.92 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.82 | \$1.90 | \$1.97 | \$2.05 | \$2.13 | \$2.22 | \$2.33 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.17 | \$3.34 | \$3.52 |
| Otter Tail Corporation | OTTR | \$1.60 | \$1.68 | \$1.77 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.28 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 |
| Pinnacle West Capital Corporation | PNW | \$3.95 | \$4.08 | \$4.21 | \$4.34 | \$4.48 | \$4.62 | \$4.79 | \$4.98 | \$5.19 | \$5.43 | \$5.70 | \$6.01 | \$6.33 | \$6.67 | \$7.03 | \$7.41 | \$7.81 |
| PNM Resources, Inc. | PNM | \$1.65 | \$1.74 | \$1.84 | \$1.94 | \$2.04 | \$2.16 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.47 | \$3.65 | \$3.85 |
| Portland General Electric Company | POR | \$2.16 | \$2.24 | \$2.33 | \$2.42 | \$2.51 | \$2.60 | \$2.71 | \$2.83 | \$2.96 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$3.81 | \$4.02 | \$4.23 | \$4.46 |
| Southern Company | so | \$2.83 | \$2.90 | \$2.96 | \$3.03 | \$3.10 | \$3.18 | \$3.27 | \$3.37 | \$3.50 | \$3.66 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 | \$4.98 | \$5.25 |
| WEC Energy Group, Inc. | WEC | \$2.96 | \$3.12 | \$3.28 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.24 | \$4.47 | \$4.71 | \$4.96 | \$5.23 | \$5.51 | \$5.80 | \$6.12 | \$6.44 | \$6.79 |
| Xcel Energy Inc. | XEL | \$2.21 | \$2.31 | \$2.41 | \$2.52 | \$2.64 | \$2.75 | \$2.88 | \$3.02 | \$3.17 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 | \$4.80 |

Projected Annual

| Projected Annual Dividend Payout Ratio |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 |
| ALLETE, Inc. | ALE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Alliant Energy Corporation | LNT | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Ameren Corporation | AEE | 64.00\% | 63.00\% | 62.00\% | 61.00\% | 60.00\% | 60.98\% | 61.97\% | 62.95\% | 63.94\% | 64.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| American Electric Power Company, Inc. | AEP | 69.00\% | 67.50\% | 66.00\% | 64.50\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Black Hills Corporation | BKH | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 51.00\% | 53.48\% | 55.97\% | 58.45\% | 60.94\% | 63.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| CMS Energy Corporation | CMS | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Dominion Energy, Inc. | D | 83.00\% | 84.00\% | 85.00\% | 86.00\% | 87.00\% | 83.48\% | 79.97\% | 76.45\% | 72.94\% | 69.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| DTE Energy Company | DTE | 56.00\% | 58.00\% | 60.00\% | 62.00\% | 64.00\% | 64.32\% | 64.64\% | 64.95\% | 65.27\% | 65.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Duke Energy Corporation | DUK | 81.00\% | 80.50\% | 80.00\% | 79.50\% | 79.00\% | 76.82\% | 74.64\% | 72.45\% | 70.27\% | 68.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |


| El Paso Electric Company | EE | 50.00\% | 51.75\% | 53.50\% | 55.25\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hawaiian Electric Industries, Inc. | HE | 77.00\% | 75.25\% | 73.50\% | 71.75\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| IDACORP, Inc. | IDA | 54.00\% | 55.75\% | 57.50\% | 59.25\% | 61.00\% | 61.82\% | 62.64\% | 63.45\% | 64.27\% | 65.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| NorthWestern Corporation | NWE | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.00\% | 62.65\% | 63.30\% | 63.95\% | 64.60\% | 65.25\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.32\% | 68.64\% | 67.95\% | 67.27\% | 66.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Otter Tail Corporation | OTTR | 72.00\% | 68.50\% | 65.00\% | 61.50\% | 58.00\% | 59.32\% | 60.64\% | 61.95\% | 63.27\% | 64.59\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Pinnacle West Capital Corporation | PNW | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.00\% | 63.48\% | 63.97\% | 64.45\% | 64.94\% | 65.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| PNM Resources, Inc. | PNM | 48.00\% | 50.25\% | 52.50\% | 54.75\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Portland General Electric Company | POR | 59.00\% | 58.50\% | 58.00\% | 57.50\% | 57.00\% | 58.48\% | 59.97\% | 61.45\% | 62.94\% | 64.42\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Southern Company | so | 75.00\% | 74.50\% | 74.00\% | 73.50\% | 73.00\% | 71.82\% | 70.64\% | 69.45\% | 68.27\% | 67.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| WEC Energy Group, Inc. | WEC | 66.00\% | 66.25\% | 66.50\% | 66.75\% | 67.00\% | 66.82\% | 66.64\% | 66.45\% | 66.27\% | 66.09\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |
| Xcel Energy Inc. | XEL | 62.00\% | 63.00\% | 64.00\% | 65.00\% | 66.00\% | 65.98\% | 65.97\% | 65.95\% | 65.94\% | 65.92\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% | 65.91\% |

Projected Annual

| Projected Annual Cash Flows |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | Terminal Value |
| ALLETE, Inc. | ALE | \$2.08 | \$2.16 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$4.66 | \$166.52 |
| Alliant Energy Corporation | LNT | \$1.15 | \$1.22 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.63 | \$93.95 |
| Ameren Corporation | AEE | \$1.82 | \$1.90 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$4.27 | \$152.60 |
| American Electric Power Company, Inc. | AEP | \$3.00 | \$3.02 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$191.03 |
| Black Hills Corporation | ВКн | \$1.40 | \$1.46 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$132.28 |
| CMS Energy Corporation | cms | \$1.29 | \$1.37 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.27 | \$116.80 |
| Dominion Energy, Inc. | D | \$2.96 | \$3.10 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$4.63 | \$165.46 |
| DTE Energy Company | DTE | \$2.84 | \$3.08 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$7.12 | \$254.51 |
| Duke Energy Corporation | DUK | \$3.10 | \$3.18 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$4.85 | \$173.23 |
| El Paso Electric Company | EE | \$1.25 | \$1.36 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.55 | \$126.75 |
| Hawaiian Electric Industries, Inc. | HE | \$1.79 | \$1.78 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$2.64 | \$94.24 |
| IDACORP, Inc. | IDA | \$2.20 | \$2.35 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$5.25 | \$187.60 |
| NorthWestern Corporation | NWE | \$2.13 | \$2.17 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$3.90 | \$139.51 |
| OGE Energy Corp. | OGE | \$1.18 | \$1.24 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$82.83 |
| Otter Tail Corporation | OTTR | \$1.21 | \$1.21 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$86.07 |
| Pinnacle West Capital Corporation | PNW | \$2.57 | \$2.65 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$5.15 | \$184.04 |
| PNM Resources, Inc. | PNM | \$0.84 | \$0.92 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$2.54 | \$90.68 |
| Portland General Electric Company | POR | \$1.32 | \$1.36 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$105.10 |
| Southern Company | so | \$2.17 | \$2.21 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$123.77 |
| WEC Energy Group, Inc. | WEC | \$2.06 | \$2.17 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$4.48 | \$160.03 |
| Xcel Energy Inc. | XEL | \$1.43 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$113.08 |

Projected Annual Data

| Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ompany |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6/30/32 |
| Company | Ticker | (\$74.84) | \$0.00 | \$0.01 | \$2.13 | \$2.25 | \$2.35 | \$2.44 | \$2.60 | \$2.77 | \$2.95 | \$3.15 | \$3.36 | \$3.58 | \$3.78 | \$3.98 | \$4.19 | \$4.42 | \$171.18 |
| Alliant Energy Corporation | LNT | (\$41.99) | \$0.00 | \$0.01 | \$1.19 | \$1.30 | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.72 | \$1.82 | \$1.92 | \$2.02 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$96.58 |
| Ameren Corporation | AEE | (\$58.43) | \$0.00 | \$0.01 | \$1.87 | \$1.98 | \$2.06 | \$2.15 | \$2.32 | \$2.49 | \$2.67 | \$2.87 | \$3.07 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.05 | \$156.87 |
| American Electric Power Company, Inc. | AEP | (\$72.02) | \$0.00 | \$0.02 | \$3.04 | \$3.03 | \$3.04 | \$3.06 | \$3.18 | \$3.32 | \$3.48 | \$3.66 | \$3.87 | \$4.11 | \$4.33 | \$4.57 | \$4.81 | \$5.07 | \$196.37 |
| Black Hills Corporation | BKH | (\$66.70) | \$0.00 | \$0.01 | \$1.43 | \$1.52 | \$1.58 | \$1.65 | \$1.81 | \$1.98 | \$2.17 | \$2.37 | \$2.60 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$135.98 |
| CMS Energy Corporation | CMS | (\$47.39) | \$0.00 | \$0.01 | \$1.33 | \$1.46 | \$1.55 | \$1.65 | \$1.78 | \$1.92 | \$2.06 | \$2.20 | \$2.36 | \$2.51 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$120.06 |
| Dominion Energy, Inc. | D | (\$79.20) | \$0.00 | \$0.02 | \$3.01 | \$3.26 | \$3.41 | \$3.58 | \$3.57 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.56 | \$3.75 | \$3.95 | \$4.17 | \$4.39 | \$170.09 |
| DTE Energy Company | DTE | (\$109.30) | \$0.00 | \$0.02 | \$2.91 | \$3.35 | \$3.63 | \$3.93 | \$4.14 | \$4.38 | \$4.62 | \$4.89 | \$5.17 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.76 | \$261.63 |
| Duke Energy Corporation | DUK | (\$85.84) | \$0.00 | \$0.02 | \$3.15 | \$3.26 | \$3.35 | \$3.44 | \$3.46 | \$3.50 | \$3.54 | \$3.59 | \$3.66 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.60 | \$178.08 |
| El Paso Electric Company | EE | (\$54.81) | \$0.00 | \$0.01 | \$1.29 | \$1.48 | \$1.61 | \$1.74 | \$1.87 | \$2.02 | \$2.18 | \$2.35 | \$2.53 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$130.29 |
| Hawaiian Electric Industries, Inc. | HE | (\$34.21) | \$0.00 | \$0.01 | \$1.80 | \$1.76 | \$1.74 | \$1.73 | \$1.75 | \$1.78 | \$1.82 | \$1.88 | \$1.94 | \$2.03 | \$2.14 | \$2.25 | \$2.37 | \$2.50 | \$96.88 |
| IDACORP, Inc. | IDA | (\$89.17) | \$0.00 | \$0.01 | \$2.24 | \$2.51 | \$2.68 | \$2.85 | \$3.00 | \$3.17 | \$3.35 | \$3.56 | \$3.78 | \$4.04 | \$4.26 | \$4.48 | \$4.73 | \$4.98 | \$192.85 |
| NorthWestern Corporation | NWE | (\$60.36) | \$0.00 | \$0.01 | \$2.15 | \$2.20 | \$2.23 | \$2.26 | \$2.34 | \$2.43 | \$2.54 | \$2.67 | \$2.82 | \$3.00 | \$3.16 | \$3.33 | \$3.51 | \$3.70 | \$143.42 |
| OGE Energy Corp. | OGE | (\$35.34) | \$0.00 | \$0.01 | \$1.20 | \$1.30 | \$1.36 | \$1.43 | \$1.48 | \$1.53 | \$1.58 | \$1.64 | \$1.71 | \$1.78 | \$1.88 | \$1.98 | \$2.09 | \$2.20 | \$85.14 |
| Otter Tail Corporation | OTTR | (\$42.38) | \$0.00 | \$0.01 | \$1.24 | \$1.21 | \$1.21 | \$1.20 | \$1.29 | \$1.38 | \$1.49 | \$1.60 | \$1.72 | \$1.85 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$88.48 |
| Pinnacle West Capital Corporation | PNW | (\$87.50) | \$0.00 | \$0.01 | \$2.61 | \$2.74 | \$2.82 | \$2.91 | \$3.04 | \$3.18 | \$3.35 | \$3.53 | \$3.73 | \$3.96 | \$4.17 | \$4.40 | \$4.64 | \$4.88 | \$189.19 |
| PNM Resources, Inc. | PNM | (\$40.68) | \$0.00 | \$0.00 | \$0.86 | \$1.02 | \$1.12 | \$1.23 | \$1.33 | \$1.44 | \$1.55 | \$1.68 | \$1.81 | \$1.95 | \$2.06 | \$2.17 | \$2.28 | \$2.41 | \$93.21 |
| Portland General Electric Company | POR | (\$46.57) | \$0.00 | \$0.01 | \$1.35 | \$1.40 | \$1.44 | \$1.48 | \$1.58 | \$1.69 | \$1.82 | \$1.95 | \$2.10 | \$2.26 | \$2.38 | \$2.51 | \$2.65 | \$2.79 | \$108.04 |
| Southern Company | so | (\$49.86) | \$0.00 | \$0.01 | \$2.20 | \$2.24 | \$2.28 | \$2.32 | \$2.35 | \$2.38 | \$2.43 | \$2.50 | \$2.57 | \$2.66 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$127.23 |
| WEC Energy Group, Inc. | WEC | (\$64.40) | \$0.00 | \$0.01 | \$2.11 | \$2.30 | \$2.43 | \$2.56 | \$2.69 | \$2.83 | \$2.97 | \$3.12 | \$3.28 | \$3.44 | \$3.63 | \$3.83 | \$4.03 | \$4.25 | \$164.51 |
| Xcel Energy Inc. | XEL | (\$48.05) | \$0.00 | \$0.01 | \$1.46 | \$1.61 | \$1.71 | \$1.82 | \$1.90 | \$1.99 | \$2.09 | \$2.20 | \$2.31 | \$2.43 | \$2.56 | \$2.70 | \$2.85 | \$3.00 | \$116.25 |

[1] Source: Bloomberg; based on 30-, 90-, and 180-day historical average as of December 29, 2017
[2] Source: Zacks
[3] Source: Yahoo! Finance
[4] Source: Value Line
[5] Equals indicated value (average, minimum, maximum) of Columns [2], [3], [4]
[6] Source: Federal Reserve, Bureau of Economic Analysis, Blue Chip Financial Forecast
[7] Source: Value Line
[8] Source: Value Line
[9] Source: Bloomberg Professional
[10] Equals Column [1] + Column [64]
[11] Equals result of Excel Solver function; goal: Column [10] equals $\$ 0.00$
[12] Equals Column [63] / Column [30]; or Proxy Group 30-day average PE ratio (source: S\&P Global Market Intelligence)
[13] Equals Column [12] / (Column [6] x 100)
[14] Source: Value Line
[15] Equals Column [14] $\times(1+$ Column [5])
[16] Equals Column [15] $\times(1+$ Column [5] $)$
[17] Equals Column [16] x (1 + Column [5])
[18] Equals Column [17] $\times(1+$ Column [5])
[19] Equals Column [18] x ( $1+$ Column [5])
[20] Equals (1 + (Column [5] + (( Column [6] - Column [5]) / (2027-2022 + 1)) $\times(2022-2021))) \times$ Column [19]
[21] Equals $(1+($ Column [5] $+((($ Column [6] - Column [5]) $/(2027-2022+1)) \times(2023-2021)))) \times$ Column [20]
[22] Equals $(1+($ Column [5] $+((($ Column [6] - Column [5]) $/(2027-2022+1)) \times(2024-2021)))) \times$ Column [21]
[23] Equals $(1+($ Column [5] $+((($ Column [6] - Column [5]) $/(2027-2022+1)) \times(2025-2021)))) \times$ Column [22]
[24] Equals ( $1+($ Column [5] + (((Column [6] - Column [5]) / (2027-2022 + 1)) $\times(2026-2021)))) \times$ Column [23]
[25] Equals Column [24] $\times(1+$ Column [6])
[26] Equals Column [25] x ( $1+$ Column [6])
[27] Equals Column [26] x (1 + Column [6])
[28] Equals Column [27] $\times(1+$ Column [6] $)$
[29] Equals Column [28] $\times(1+$ Column [6] $)$
[30] Equals Column [29] x (1 + Column [6])
[31] Equals Column [7]
[32] Equals Column [31] + ((Column [35] - Column [31]) / 4)
[33] Equals Column [32] + ((Column [35] - Column [31]) / 4)
[34] Equals Column [33] + ((Column [35] - Column [31]) / 4)
[35] Equals Column [8]
[36] Equals Column [35] + ((Column [41] - Column [35]) / 6)
[37] Equals Column [36] + ((Column [41] - Column [35]) / 6)
[38] Equals Column [37] + ((Column [41] - Column [35]) / 6)
[39] Equals Column [38] + ((Column [41] - Column [35]) / 6)
[40] Equals Column [39] + ((Column [41] - Column [35]) / 6)
[41] Equals Column [9]
[42] Equals Column [9]
[43] Equals Column [9]
[44] Equals Column [9]
[45] Equals Column [9]
[46] Equals Column [9]
[47] Equals Column [15] $\times$ Column [31]
[48] Equals Column [16] $\times$ Column [32]
[49] Equals Column [17] $\times$ Column [33]
[50] Equals Column [18] $\times$ Column [34]
[51] Equals Column [19] $\times$ Column [35]
[52] Equals Column [20] $\times$ Column [36]
[53] Equals Column [21] $\times$ Column [37]
[54] Equals Column [22] $\times$ Column [38]
[55] Equals Column [23] x Column [39]
[56] Equals Column [24] $\times$ Column [40]
[57] Equals Column [25] $\times$ Column [41]
[58] Equals Column [26] $\times$ Column [42]
[59] Equals Column [27] $\times$ Column [43]
[60] Equals Column [28] $\times$ Column [44]
[61] Equals Column [29] $\times$ Column [45]
[62] Equals Column [30] $\times$ Column [46]
[63] Equals (Column [62] x ( $1+$ Column [6]) $) /($ Column [11] - Column [6]); or Column [12] $\times$ Column [30]
[64] Equals negative net present value; discount rate equals Column [11], cash flows equal Column [65] through Column [81]
[65] Equals $\$ 0.00$
[66] Equals Column [47] $\times(12 / 31 / 2017-11 / 17 / 2017) / 365$
[67] Equals Column [47] $\times(1+(0.5 \times$ Column [5]) $)$
[68] Equals Column [49]
[69] Equals Column [50]
[70] Equals Column [51]
[71] Equals Column [52]
[72] Equals Column [53]
[73] Equals Column [54]
[74] Equals Column [55]
[75] Equals Column [56]
[76] Equals Column [57]
[77] Equals Column [58]
[78] Equals Column [59]
[79] Equals Column [60]
[80] Equals Column [61]
[81] Equals Column [62] + [63]
x-Ante Market Risk Premium
Market DCF Method Based - Bloomberg

| $[1]$ | $[2]$ | $[3]$ |
| :---: | :---: | :---: |
| S\&P 500 | Current 30-Year |  |
| Est. Required | Treasury (30-day | Implied Market |
| Market Return | average) | Risk Premium |
| $13.78 \%$ | $2.77 \%$ | $11.00 \%$ |


|  |  |  |  | [5] | [6] | [7] | [8] | [9] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | Market pitalization | Weight in Index | Estimated Dividend Yield | Long-Term Growth Est. | DCF Result | Weighted DCF Result |
| AGILENT TECHNOLOGIES INC | A | \$ | 21,632.52 | 0.09\% | 0.90\% | 4.93\% | 5.85\% | 0.0052\% |
| AMERICAN AIRLINES GROUP INC | AAL | \$ | 24,896.31 | 0.10\% | 0.80\% | -1.14\% | -0.35\% | -0.0004\% |
| ADVANCE AUTO PARTS INC | AAP | \$ | 7,366.90 | 0.03\% | 0.26\% | 13.05\% | 13.32\% | 0.0041\% |
| APPLE INC | AAPL | \$ | 860,882.49 | 3.56\% | 1.56\% | 10.17\% | 11.80\% | 0.4208\% |
| ABBVIE INC | ABBV | \$ | 154,390.72 | 0.64\% | 2.68\% | 11.70\% | 14.53\% | 0.0929\% |
| AMERISOURCEBERGEN CORP | ABC | \$ | 20,024.29 | 0.08\% | 1.68\% | 7.53\% | 9.27\% | 0.0077\% |
| ABBOTT LABORATORIES | ABT | \$ | 99,336.08 | 0.41\% | 1.88\% | 11.78\% | 13.77\% | 0.0566\% |
| ACCENTURE PLC-CL A | ACN | \$ | 98,590.72 | 0.41\% | 1.74\% | 10.57\% | 12.40\% | 0.0506\% |
| ADOBE SYSTEMS INC | ADBE | \$ | 86,383.33 | 0.36\% | 0.00\% | 16.77\% | 16.77\% | 0.0600\% |
| ANALOG DEVICES INC | ADI | \$ | 32,819.64 | 0.14\% | 2.06\% | 9.75\% | 11.91\% | 0.0162\% |
| ARCHER-DANIELS-MIDLAND CO | ADM | \$ | 22,414.75 | 0.09\% | 3.15\% | 8.50\% | 11.79\% | 0.0109\% |
| AUTOMATIC DATA PROCESSING | ADP | \$ | 51,972.56 | 0.22\% | 2.02\% | 10.85\% | 12.98\% | 0.0279\% |
| ALLIANCE DATA SYSTEMS CORP | ADS | \$ | 14,004.43 | 0.06\% | 0.82\% | 14.00\% | 14.88\% | 0.0086\% |
| AUTODESK INC | ADSK | \$ | 23,090.57 | 0.10\% | 0.00\% | 38.00\% | 38.00\% | 0.0363\% |
| AMEREN CORPORATION | AEE | \$ | 14,313.03 | 0.06\% | 3.04\% | 7.01\% | 10.15\% | 0.0060\% |
| AMERICAN ELECTRIC POWER | AEP | \$ | 36,188.01 | 0.15\% | 3.25\% | 4.34\% | 7.66\% | 0.0115\% |
| AES CORP | AES | \$ | 7,151.99 | 0.03\% | 4.23\% | 8.48\% | 12.89\% | 0.0038\% |
| AETNA INC | AET | \$ | 58,825.18 | 0.24\% | 1.06\% | 12.00\% | 13.12\% | 0.0320\% |
| AFLAC INC | AFL | \$ | 34,510.67 | 0.14\% | 2.80\% | 2.85\% | 5.69\% | 0.0081\% |
| ALLERGAN PLC | AGN | \$ | 54,403.94 | 0.23\% | 1.71\% | 8.50\% | 10.28\% | 0.0232\% |
| AMERICAN INTERNATIONAL GROUP | AIG | \$ | 53,560.00 | 0.22\% | 2.15\% | 11.00\% | 13.27\% | 0.0294\% |
| APARTMENT INVT \& MGMT CO -A | AIV | \$ | 6,863.49 | 0.03\% | 3.32\% | 6.80\% | 10.23\% | 0.0029\% |
| ASSURANT INC | AIZ | \$ | 5,426.37 | N/A | 2.13\% | N/A | N/A | N/A |
| ARTHUR J GALLAGHER \& CO | AJG | \$ | 11,440.96 | 0.05\% | 2.47\% | 9.95\% | 12.54\% | 0.0059\% |
| AKAMAI TECHNOLOGIES INC | AKAM | \$ | 11,001.63 | 0.05\% | 0.00\% | 12.53\% | 12.53\% | 0.0057\% |
| ALBEMARLE CORP | ALB | \$ | 14,131.29 | 0.06\% | 1.00\% | 12.40\% | 13.46\% | 0.0079\% |
| ALIGN TECHNOLOGY INC | ALGN | \$ | 17,814.68 | N/A | 0.00\% | N/A | N/A | N/A |
| ALASKA AIR GROUP INC | ALK | \$ | 9,045.03 | 0.04\% | 1.63\% | -0.18\% | 1.45\% | 0.0005\% |
| ALLSTATE CORP | ALL | \$ | 37,695.60 | 0.16\% | 1.40\% | 16.27\% | 17.78\% | 0.0278\% |
| ALLEGION PLC | ALLE | \$ | 7,561.59 | 0.03\% | 0.75\% | 12.99\% | 13.78\% | 0.0043\% |
| ALEXION PHARMACEUTICALS INC | ALXN | \$ | 26,717.56 | 0.11\% | 0.00\% | 19.89\% | 19.89\% | 0.0220\% |
| APPLIED MATERIALS INC | AMAT | \$ | 54,000.14 | 0.22\% | 0.79\% | 11.35\% | 12.18\% | 0.0272\% |
| ADVANCED MICRO DEVICES | AMD | \$ | 9,918.13 | 0.04\% | 0.00\% | 8.00\% | 8.00\% | 0.0033\% |
| AMETEK INC | AME | \$ | 16,749.06 | 0.07\% | 0.51\% | 11.75\% | 12.29\% | 0.0085\% |
| AFFILIATED MANAGERS GROUP | AMG | \$ | 11,408.19 | 0.05\% | 0.39\% | 14.89\% | 15.31\% | 0.0072\% |
| AMGEN INC | AMGN | \$ | 126,235.85 | 0.52\% | 2.60\% | 4.80\% | 7.45\% | 0.0390\% |
| AMERIPRISE FINANCIAL INC | AMP | \$ | 25,069.70 | 0.10\% | 1.92\% | 8.80\% | 10.80\% | 0.0112\% |
| AMERICAN TOWER CORP | AMT | \$ | 61,184.94 | 0.25\% | 1.84\% | 19.71\% | 21.73\% | 0.0550\% |
| AMAZON.COM INC | AMZN | \$ | 563,535.05 | 2.33\% | 0.00\% | 25.64\% | 25.64\% | 0.5983\% |
| ANDEAVOR | ANDV | \$ | 17,836.73 | 0.07\% | 2.00\% | 18.80\% | 20.99\% | 0.0155\% |
| ANSYS INC | ANSS | \$ | 12,524.56 | 0.05\% | 0.00\% | 10.38\% | 10.38\% | 0.0054\% |
| ANTHEM INC | ANTM | \$ | 57,773.68 | 0.24\% | 1.19\% | 11.25\% | 12.50\% | 0.0299\% |
| AON PLC | AON | \$ | 33,486.29 | 0.14\% | 1.05\% | 11.06\% | 12.17\% | 0.0169\% |
| SMITH (A.O.) CORP | AOS | \$ | 10,535.84 | 0.04\% | 0.91\% | 15.00\% | 15.98\% | 0.0070\% |
| APACHE CORP | APA | \$ | 16,083.40 | 0.07\% | 2.37\% | -17.48\% | -15.32\% | -0.0102\% |
| ANADARKO PETROLEUM CORP | APC | \$ | 29,349.53 | 0.12\% | 0.37\% | -1.91\% | -1.54\% | -0.0019\% |
| AIR PRODUCTS \& CHEMICALS INC | APD | \$ | 35,903.52 | 0.15\% | 2.33\% | 10.30\% | 12.75\% | 0.0190\% |
| AMPHENOL CORP-CL A | APH | \$ | 26,808.77 | 0.11\% | 0.77\% | 12.22\% | 13.04\% | 0.0145\% |
| APTIV PLC | APTV | \$ | 22,551.19 | 0.09\% | 1.35\% | 10.43\% | 11.84\% | 0.0111\% |
| ALEXANDRIA REAL ESTATE EQUIT | ARE | \$ | 12,499.79 | 0.05\% | 2.61\% | 7.30\% | 10.01\% | 0.0052\% |
| ARCONIC INC | ARNC | \$ | 13,116.08 | 0.05\% | 1.17\% | 17.50\% | 18.78\% | 0.0102\% |
| ACTIVISION BLIZZARD INC | ATVI | \$ | 47,876.22 | 0.20\% | 0.47\% | 13.93\% | 14.43\% | 0.0286\% |
| AVALONBAY COMMUNITIES INC | AVB | \$ | 24,636.26 | 0.10\% | 3.18\% | 6.45\% | 9.73\% | 0.0099\% |
| BROADCOM LTD | AVGO | \$ | 105,165.22 | 0.44\% | 2.72\% | 15.00\% | 17.93\% | 0.0781\% |
| AVERY DENNISON CORP | AVY | \$ | 10,111.86 | 0.04\% | 1.55\% | 7.80\% | 9.41\% | 0.0039\% |
| AMERICAN WATER WORKS CO INC | AWK | \$ | 16,319.57 | 0.07\% | 1.78\% | 8.53\% | 10.38\% | 0.0070\% |
| AMERICAN EXPRESS CO | AXP | \$ | 86,200.71 | 0.36\% | 1.35\% | 10.17\% | 11.59\% | 0.0414\% |
| ACUITY BRANDS INC | AYI | \$ | 7,418.91 | 0.03\% | 0.30\% | 11.00\% | 11.31\% | 0.0035\% |
| AUTOZONE INC | AZO | \$ | 19,458.11 | 0.08\% | 0.00\% | 12.90\% | 12.90\% | 0.0104\% |
| BOEING CO/THE | BA | \$ | 175,642.06 | 0.73\% | 1.93\% | 16.27\% | 18.36\% | 0.1335\% |
| BANK OF AMERICA CORP | BAC | \$ | 307,911.72 | 1.27\% | 1.34\% | 12.65\% | 14.07\% | 0.1794\% |
| BAXTER INTERNATIONAL INC | BAX | \$ | 35,217.94 | 0.15\% | 0.97\% | 13.45\% | 14.48\% | 0.0211\% |
| BB\&T CORP | BBT | \$ | 39,225.15 | 0.16\% | 2.53\% | 8.65\% | 11.29\% | 0.0183\% |
| best buy Co inc | BBY | \$ | 20,015.60 | 0.08\% | 1.97\% | 12.65\% | 14.74\% | 0.0122\% |
| CR BARD INC | BCR | \$ | 24,144.87 | 0.10\% | 0.31\% | 8.73\% | 9.06\% | 0.0091\% |
| BECTON DICKINSON AND CO | BDX | \$ | 57,028.85 | 0.24\% | 1.43\% | 12.80\% | 14.32\% | 0.0338\% |
| FRANKLIN RESOURCES INC | BEN | \$ | 24,000.83 | 0.10\% | 1.99\% | 10.00\% | 12.09\% | 0.0120\% |
| BROWN-FORMAN CORP-CLASS B | BF/B | \$ | 26,150.71 | 0.11\% | 1.12\% | 10.73\% | 11.91\% | 0.0129\% |
| BRIGHTHOUSE FINANCIAL INC | BHF | \$ | 7,023.49 | 0.03\% | 0.00\% | 8.00\% | 8.00\% | 0.0023\% |
| BAKER HUGHES A GE CO | BHGE | \$ | 36,236.87 | 0.15\% | 1.77\% | 7.92\% | 9.76\% | 0.0146\% |
| BIOGEN INC | BIIB | \$ | 67,370.21 | 0.28\% | 0.00\% | 5.21\% | 5.21\% | 0.0145\% |
| BANK OF NEW YORK MELLON CORP | BK | \$ | 55,153.84 | 0.23\% | 1.60\% | 9.07\% | 10.74\% | 0.0245\% |
| BLACKROCK INC | BLK | \$ | 83,179.41 | 0.34\% | 1.95\% | 14.03\% | 16.12\% | 0.0555\% |
| BALL CORP | BLL | \$ | 13,249.63 | 0.05\% | 0.85\% | 1.27\% | 2.13\% | 0.0012\% |
| BRISTOL-MYERS SQUIBB CO | BMY | \$ | 100,296.96 | 0.42\% | 2.54\% | 8.07\% | 10.71\% | 0.0445\% |
| BERKSHIRE HATHAWAY INC-CL B | BRK/B | \$ | 489,248.72 | 2.03\% | 0.00\% | 6.60\% | 6.60\% | 0.1337\% |
| BOSTON SCIENTIFIC CORP | BSX | \$ | 34,041.52 | 0.14\% | 0.00\% | 10.37\% | 10.37\% | 0.0146\% |
| BORGWARNER INC | BWA | \$ | 10,771.74 | 0.04\% | 1.13\% | 7.20\% | 8.37\% | 0.0037\% |
| BOSTON PROPERTIES INC | BXP | \$ | 20,066.52 | 0.08\% | 2.32\% | 5.56\% | 7.94\% | 0.0066\% |
| CITIGROUP INC | C | \$ | 196,740.19 | 0.81\% | 1.31\% | 12.40\% | 13.79\% | 0.1123\% |
| CA INC | CA | \$ | 13,929.12 | 0.06\% | 3.09\% | 2.97\% | 6.10\% | 0.0035\% |
| CONAGRA BRANDS INC | CAG | \$ | 15,388.12 | 0.06\% | 2.23\% | 8.80\% | 11.13\% | 0.0071\% |
| CARDINAL HEALTH INC | CAH | \$ | 19,275.77 | 0.08\% | 3.02\% | 12.30\% | 15.51\% | 0.0124\% |
| CATERPILLAR INC | CAT | \$ | 93,749.63 | 0.39\% | 2.01\% | 10.00\% | 12.11\% | 0.0470\% |
| CHUBB LTD | CB | \$ | 67,836.76 | 0.28\% | 1.93\% | 8.73\% | 10.74\% | 0.0302\% |
| CBRE GROUP INC - A | CBG | \$ | 14,701.98 | 0.06\% | 0.00\% | 9.35\% | 9.35\% | 0.0057\% |
| CBOE GLOBAL MARKETS INC | CBOE | \$ | 14,135.71 | 0.06\% | 0.83\% | 22.16\% | 23.09\% | 0.0135\% |
| CBS CORP-CLASS B NON VOTING | CBS | \$ | 23,639.87 | 0.10\% | 1.25\% | 14.98\% | 16.32\% | 0.0160\% |
| CROWN CASTLE INTL CORP | CCI | \$ | 45,100.60 | 0.19\% | 3.52\% | 21.03\% | 24.92\% | 0.0465\% |
| CARNIVAL CORP | CCL | \$ | 47,583.29 | 0.20\% | 2.66\% | 12.49\% | 15.31\% | 0.0302\% |
| CADENCE DESIGN SYS INC | CDNS | \$ | 11,808.30 | 0.05\% | 0.00\% | 12.00\% | 12.00\% | 0.0059\% |
| CELGENE CORP | CELG | \$ | 82,164.39 | 0.34\% | 0.00\% | 18.95\% | 18.95\% | 0.0645\% |
| CERNER CORP | CERN | \$ | 22,401.44 | 0.09\% | 0.00\% | 13.40\% | 13.40\% | 0.0124\% |


| CF INDUSTRIES HOLDINGS INC | CF | \$ | 9,922.88 | 0.04\% | 2.82\% | 6.00\% | 8.91\% | 0.0037\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CITIZENS FINANCIAL GROUP | CFG | \$ | 20,653.80 | 0.09\% | 1.54\% | 15.14\% | 16.80\% | 0.0144\% |
| CHURCH \& DWIGHT CO INC | CHD | \$ | 12,538.75 | 0.05\% | 1.52\% | 9.01\% | 10.60\% | 0.0055\% |
| CHESAPEAKE ENERGY CORP | CHK | \$ | 3,598.40 | 0.01\% | 0.00\% | -13.30\% | -13.30\% | -0.0020\% |
| C.H. ROBINSON WORLDWIDE INC | CHRW | \$ | 12,419.62 | 0.05\% | 2.04\% | 9.28\% | 11.41\% | 0.0059\% |
| CHARTER COMMUNICATIONS INC-A | CHTR | \$ | 93,788.82 | 0.39\% | 0.00\% | 22.44\% | 22.44\% | 0.0872\% |
| CIGNA CORP | Cl | \$ | 50,071.78 | 0.21\% | 0.02\% | 12.10\% | 12.12\% | 0.0251\% |
| CINCINNATI FINANCIAL CORP | CINF | \$ | 12,300.46 | N/A | 2.89\% | N/A | N/A | N/A |
| COLGATE-PALMOLIVE CO | CL | \$ | 66,253.04 | 0.27\% | 2.11\% | 7.53\% | 9.72\% | 0.0267\% |
| CLOROX COMPANY | CLX | \$ | 19,178.32 | 0.08\% | 2.25\% | 6.35\% | 8.67\% | 0.0069\% |
| COMERICA INC | CMA | \$ | 15,097.56 | 0.06\% | 1.26\% | 29.00\% | 30.44\% | 0.0190\% |
| COMCAST CORP-CLASS A | CMCSA | \$ | 187,184.56 | 0.78\% | 1.57\% | 11.35\% | 13.01\% | 0.1008\% |
| CME GROUP INC | CME | \$ | 49,700.01 | 0.21\% | 4.01\% | 12.29\% | 16.55\% | 0.0341\% |
| CHIPOTLE MEXICAN GRILL INC | Cmg | \$ | 8,160.16 | 0.03\% | 0.00\% | 46.98\% | 46.98\% | 0.0159\% |
| CUMMINS INC | СмI | \$ | 29,316.50 | 0.12\% | 2.37\% | 10.92\% | 13.42\% | 0.0163\% |
| CMS ENERGY CORP | CMs | \$ | 13,342.55 | 0.06\% | 2.80\% | 6.28\% | 9.17\% | 0.0051\% |
| CENTENE CORP | CNC | \$ | 17,408.51 | 0.07\% | 0.00\% | 13.27\% | 13.27\% | 0.0096\% |
| CENTERPOINT ENERGY INC | CNP | \$ | 12,224.11 | 0.05\% | 3.79\% | 7.36\% | 11.29\% | 0.0057\% |
| CAPITAL ONE FINANCIAL CORP | COF | \$ | 48,270.83 | 0.20\% | 1.61\% | 7.25\% | 8.92\% | 0.0178\% |
| CABOT OIL \& GAS CORP | cog | \$ | 13,227.74 | 0.05\% | 0.59\% | 41.22\% | 41.93\% | 0.0230\% |
| ROCKWELL COLLINS INC | COL | \$ | 22,213.70 | 0.09\% | 1.09\% | 10.55\% | 11.70\% | 0.0108\% |
| COOPER COS INC/THE | coo | \$ | 10,645.84 | 0.04\% | 0.04\% | 9.75\% | 9.79\% | 0.0043\% |
| CONOCOPHILLIPS | COP | \$ | 65,621.86 | 0.27\% | 1.93\% | 6.00\% | 7.99\% | 0.0217\% |
| COSTCO WHOLESALE CORP | COST | \$ | 81,726.38 | 0.34\% | 1.12\% | 10.03\% | 11.20\% | 0.0379\% |
| COTY INC-CL A | COTY | \$ | 14,907.39 | 0.06\% | 2.49\% | 17.13\% | 19.83\% | 0.0122\% |
| CAMPBELL SOUP CO | CPB | \$ | 14,462.20 | 0.06\% | 3.06\% | 4.49\% | 7.62\% | 0.0046\% |
| SALESFORCE.COM INC | CRM | \$ | 73,840.73 | 0.31\% | 0.00\% | 28.30\% | 28.30\% | 0.0865\% |
| CISCO SYSTEMS InC | csco | \$ | 189,340.73 | 0.78\% | 3.19\% | 4.80\% | 8.07\% | 0.0633\% |
| CSRA INC | CSRA | \$ | 4,900.30 | 0.02\% | 1.34\% | 7.30\% | 8.69\% | 0.0018\% |
| CSX CORP | CSX | \$ | 49,163.71 | 0.20\% | 1.42\% | 13.04\% | 14.55\% | 0.0296\% |
| CINTAS CORP | CTAS | \$ | 16,565.41 | 0.07\% | 1.02\% | 13.18\% | 14.26\% | 0.0098\% |
| CENTURYLINK INC | CTL | \$ | 17,830.98 | 0.07\% | 12.95\% | -14.57\% | -2.56\% | -0.0019\% |
| COGNIZANT TECH SOLUTIONS-A | CTSH | \$ | 41,876.63 | 0.17\% | 0.70\% | 14.20\% | 14.95\% | 0.0259\% |
| CITRIX SYSTEMS INC | CTXS | \$ | 13,259.44 | 0.05\% | 0.00\% | 4.85\% | 4.85\% | 0.0027\% |
| CVS HEALTH CORP | cvs | \$ | 73,441.95 | 0.30\% | 2.73\% | 12.03\% | 14.93\% | 0.0454\% |
| CHEVRON CORP | cvx | \$ | 237,782.62 | 0.98\% | 3.46\% | 42.60\% | 46.80\% | 0.4607\% |
| CONCHO RESOURCES INC | cxo | \$ | 22,337.12 | N/A | 0.00\% | N/A | N/A | N/A |
| DOMINION ENERGY INC | D | \$ | 52,164.52 | 0.22\% | 3.75\% | 5.98\% | 9.84\% | 0.0212\% |
| DELTA AIR LINES INC | DAL | \$ | 39,926.50 | 0.17\% | 1.81\% | 4.75\% | 6.61\% | 0.0109\% |
| DEERE\&CO | DE | \$ | 50,489.35 | 0.21\% | 1.58\% | 9.00\% | 10.65\% | 0.0223\% |
| DISCOVER FINANCIAL SERVICES | DFS | \$ | 27,951.24 | 0.12\% | 1.68\% | 6.40\% | 8.13\% | 0.0094\% |
| DOLLAR GENERAL CORP | DG | \$ | 25,258.13 | 0.10\% | 1.11\% | 8.28\% | 9.43\% | 0.0099\% |
| QUEST DIAGNOSTICS INC | DGX | \$ | 13,424.13 | 0.06\% | 1.82\% | 7.87\% | 9.76\% | 0.0054\% |
| DR HORTON INC | DHI | \$ | 19,202.47 | 0.08\% | 0.94\% | 17.20\% | 18.22\% | 0.0145\% |
| DANAHER CORP | DHR | \$ | 64,566.08 | 0.27\% | 0.57\% | 7.98\% | 8.57\% | 0.0229\% |
| WALT DISNEY CO/THE | DIS | \$ | 162,373.66 | 0.67\% | 1.59\% | 8.73\% | 10.39\% | 0.0699\% |
| DISCOVERY COMMUNICATIONS-A | DISCA | \$ | 12,587.98 | 0.05\% | 0.00\% | 5.05\% | 5.05\% | 0.0026\% |
| DISH NETWORK CORP-A | DISH | \$ | 22,268.57 | 0.09\% | 0.00\% | -5.75\% | -5.75\% | -0.0053\% |
| DIGITAL REALTY TRUST INC | DLR | \$ | 23,673.65 | 0.10\% | 3.27\% | 7.26\% | 10.65\% | 0.0104\% |
| DOLLAR TREE INC | DLTR | \$ | 25,442.83 | 0.11\% | 0.00\% | 13.98\% | 13.98\% | 0.0147\% |
| DOVER CORP | Dov | \$ | 15,733.34 | 0.07\% | 1.81\% | 14.73\% | 16.68\% | 0.0109\% |
| DR PEPPER SNAPPLE GROUP INC | DPS | \$ | 17,523.35 | 0.07\% | 2.39\% | 8.58\% | 11.08\% | 0.0080\% |
| DUKE REALTY CORP | DRE | \$ | 9,690.59 | 0.04\% | 5.95\% | 3.71\% | 9.77\% | 0.0039\% |
| DARDEN RESTAURANTS INC | DRI | \$ | 11,875.11 | 0.05\% | 2.63\% | 9.50\% | 12.25\% | 0.0060\% |
| DTE ENERGY COMPANY | DTE | \$ | 19,636.06 | 0.08\% | 3.04\% | 5.78\% | 8.90\% | 0.0072\% |
| DUKE ENERGY CORP | DUK | \$ | 58,877.00 | 0.24\% | 4.19\% | 5.02\% | 9.32\% | 0.0227\% |
| DAVITA INC | DVA | \$ | 13,243.43 | 0.05\% | 0.00\% | 1.45\% | 1.45\% | 0.0008\% |
| DEVON ENERGY CORP | DVN | \$ | 21,755.70 | 0.09\% | 0.58\% | 16.95\% | 17.58\% | 0.0158\% |
| DOWDUPONT INC | DWDP | \$ | 166,654.11 | 0.69\% | 2.16\% | 7.43\% | 9.66\% | 0.0667\% |
| DXC TECHNOLOGY CO | DXC | \$ | 27,072.00 | 0.11\% | 0.74\% | 15.00\% | 15.80\% | 0.0177\% |
| ELECTRONIC ARTS INC | EA | \$ | 32,350.65 | 0.13\% | 0.00\% | 13.78\% | 13.78\% | 0.0185\% |
| EBAY INC | EbAY | \$ | 39,422.11 | 0.16\% | 0.00\% | 8.93\% | 8.93\% | 0.0146\% |
| ECOLAB INC | ECL | \$ | 38,766.52 | 0.16\% | 1.13\% | 12.95\% | 14.15\% | 0.0227\% |
| CONSOLIDATED EDISON INC | ED | \$ | 26,340.34 | 0.11\% | 3.25\% | 2.00\% | 5.28\% | 0.0058\% |
| EQUIFAX INC | EFX | \$ | 14,159.76 | 0.06\% | 1.32\% | 10.00\% | 11.39\% | 0.0067\% |
| EDISON INTERNATIONAL | EIX | \$ | 20,604.30 | 0.09\% | 3.51\% | 6.16\% | 9.78\% | 0.0083\% |
| ESTEE LAUDER COMPANIES-CL A | EL | \$ | 46,854.49 | 0.19\% | 1.18\% | 12.00\% | 13.25\% | 0.0257\% |
| EASTMAN CHEMICAL CO | EmN | \$ | 13,315.55 | 0.06\% | 2.20\% | 7.30\% | 9.58\% | 0.0053\% |
| EMERSON ELECTRIC CO | EMR | \$ | 44,728.42 | 0.19\% | 2.80\% | 8.59\% | 11.50\% | 0.0213\% |
| EOG RESOURCES INC | EOG | \$ | 62,395.64 | 0.26\% | 0.62\% | -10.86\% | -10.27\% | -0.0265\% |
| EQUINIX INC | EQIX | \$ | 35,457.08 | 0.15\% | 1.77\% | 25.52\% | 27.52\% | 0.0404\% |
| EQUITY RESIDENTIAL | EQR | \$ | 23,434.50 | 0.10\% | 3.16\% | 5.30\% | 8.54\% | 0.0083\% |
| EQT CORP | EQT | \$ | 14,669.16 | 0.06\% | 0.21\% | 17.50\% | 17.73\% | 0.0108\% |
| EVERSOURCE ENERGY | ES | \$ | 20,020.85 | 0.08\% | 3.01\% | 6.10\% | 9.20\% | 0.0076\% |
| EXPRESS SCRIPTS HOLDING CO | ESRX | \$ | 42,274.08 | 0.18\% | 0.00\% | 11.33\% | 11.33\% | 0.0198\% |
| ESSEX PROPERTY TRUST INC | ESS | \$ | 15,939.36 | 0.07\% | 2.90\% | 6.23\% | 9.23\% | 0.0061\% |
| E*TRADE FINANCIAL CORP | ETFC | \$ | 13,284.48 | 0.06\% | 0.00\% | 17.57\% | 17.57\% | 0.0097\% |
| EATON CORP PLC | ETN | \$ | 34,811.81 | 0.14\% | 3.03\% | 9.82\% | 13.00\% | 0.0187\% |
| ENTERGY CORP | ETR | \$ | 14,670.66 | 0.06\% | 4.32\% | 0.14\% | 4.46\% | 0.0027\% |
| ENVISION HEALTHCARE CORP | EVHC | \$ | 4,181.27 | 0.02\% | 0.00\% | 2.74\% | 2.74\% | 0.0005\% |
| EDWARDS LIFESCIENCES CORP | EW | \$ | 23,851.68 | 0.10\% | 0.00\% | 16.68\% | 16.68\% | 0.0165\% |
| EXELON CORP | EXC | \$ | 37,837.06 | 0.16\% | 3.34\% | 1.13\% | 4.49\% | 0.0070\% |
| EXPEDITORS INTL WASH INC | EXPD | \$ | 11,495.60 | 0.05\% | 1.30\% | 8.50\% | 9.85\% | 0.0047\% |
| EXPEDIA INC | EXPE | \$ | 18,235.22 | 0.08\% | 0.96\% | 14.60\% | 15.63\% | 0.0118\% |
| EXTRA SPACE STORAGE INC | EXR | \$ | 11,019.38 | 0.05\% | 3.59\% | 6.82\% | 10.53\% | 0.0048\% |
| FORD MOTOR CO | F | \$ | 49,614.05 | 0.21\% | 4.97\% | -7.57\% | -2.79\% | -0.0057\% |
| FASTENAL CO | FAST | \$ | 15,717.38 | 0.07\% | 2.35\% | 15.75\% | 18.28\% | 0.0119\% |
| FACEBOOK INC-A | FB | \$ | 514,985.30 | 2.13\% | 0.00\% | 28.81\% | 28.81\% | 0.6143\% |
| FORTUNE BRANDS HOME \& SECURI | FBHS | \$ | 10,389.24 | 0.04\% | 1.05\% | 11.61\% | 12.72\% | 0.0055\% |
| FREEPORT-MCMORAN INC | FCX | \$ | 27,446.32 | 0.11\% | 0.00\% | 26.81\% | 26.81\% | 0.0305\% |
| FEDEX CORP | FDX | \$ | 66,849.18 | 0.28\% | 0.80\% | 13.65\% | 14.50\% | 0.0401\% |
| FIRSTENERGY CORP | FE | \$ | 13,621.55 | 0.06\% | 4.70\% | -1.25\% | 3.42\% | 0.0019\% |
| F5 NETWORKS INC | FFIV | \$ | 8,213.52 | 0.03\% | 0.00\% | 8.93\% | 8.93\% | 0.0030\% |
| FIDELITY NATIONAL INFO SERV | FIS | \$ | 31,413.69 | 0.13\% | 1.22\% | 12.00\% | 13.29\% | 0.0173\% |
| FISERV INC | FISV | \$ | 27,327.41 | 0.11\% | 0.00\% | 10.80\% | 10.80\% | 0.0122\% |
| FIFTH THIRD BANCORP | FITB | \$ | 21,407.34 | 0.09\% | 1.98\% | 6.20\% | 8.24\% | 0.0073\% |
| FOOT LOCKER INC | FL | \$ | 5,682.12 | 0.02\% | 2.50\% | 0.90\% | 3.41\% | 0.0008\% |
| FLIR SYSTEMS INC | FLIR | \$ | 6,460.33 | N/A | 1.20\% | N/A | N/A | N/A |
| FLUOR CORP | FLR | \$ | 7,224.56 | 0.03\% | 1.66\% | 8.46\% | 10.18\% | 0.0030\% |
| FLOWSERVE CORP | FLS | \$ | 5,503.65 | 0.02\% | 1.81\% | 8.99\% | 10.87\% | 0.0025\% |
| FMC CORP | FMC | \$ | 12,709.22 | 0.05\% | 0.71\% | 12.80\% | 13.55\% | 0.0071\% |
| TWENTY-FIRST CENTURY FOX-A | FOXA | \$ | 63,640.46 | 0.26\% | 1.16\% | 8.53\% | 9.73\% | 0.0256\% |
| FEDERAL REALTY INVS TRUST | FRT | \$ | 9,634.95 | 0.04\% | 2.99\% | 6.17\% | 9.25\% | 0.0037\% |
| TECHNIPFMC PLC | FTI | \$ | 14,603.89 | 0.06\% | 0.94\% | 4.56\% | 5.52\% | 0.0033\% |
| FORTIVE CORP | FTV | \$ | 25,145.89 | 0.10\% | 0.38\% | 10.24\% | 10.64\% | 0.0111\% |
| GENERAL DYNAMICS CORP | GD | \$ | 60,746.69 | 0.25\% | 1.62\% | 8.48\% | 10.17\% | 0.0256\% |
| GENERAL ELECTRIC CO | GE | \$ | 151,327.88 | 0.63\% | 5.13\% | 8.17\% | 13.51\% | 0.0846\% |


| GGP INC | GGP | \$ | 22,126.40 | 0.09\% | 3.88\% | 4.58\% | 8.55\% | 0.0078\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GILEAD SCIENCES INC | GILD | \$ | 93,581.11 | 0.39\% | 2.89\% | 3.00\% | 5.93\% | 0.0230\% |
| GENERAL MILLS INC | GIS | \$ | 33,738.61 | 0.14\% | 3.35\% | 7.93\% | 11.42\% | 0.0159\% |
| CORNING INC | GLW | \$ | 27,801.15 | 0.12\% | 1.95\% | 9.65\% | 11.70\% | 0.0135\% |
| GENERAL MOTORS Co | GM | \$ | 58,222.51 | 0.24\% | 3.72\% | 8.94\% | 12.83\% | 0.0309\% |
| ALPHABET INC-CL A | GOOGL | \$ | 729,293.54 | 3.02\% | 0.00\% | 17.97\% | 17.97\% | 0.5427\% |
| GENUINE PARTS Co | GPC | \$ | 13,929.75 | 0.06\% | 2.84\% | 9.47\% | 12.45\% | 0.0072\% |
| GLOBAL PAYMENTS InC | GPN | \$ | 15,952.44 | 0.07\% | 0.04\% | 14.50\% | 14.55\% | 0.0096\% |
| GAP INC/THE | GPS | \$ | 13,244.47 | 0.05\% | 2.72\% | 6.83\% | 9.64\% | 0.0053\% |
| GARMIN LTD | GRMN | \$ | 11,169.38 | 0.05\% | 3.42\% | 5.78\% | 9.30\% | 0.0043\% |
| GOLDMAN SACHS GROUP INC | GS | \$ | 99,815.71 | 0.41\% | 1.14\% | 9.93\% | 11.13\% | 0.0460\% |
| GOODYEAR TIRE \& RUBBER CO | GT | \$ | 7,958.83 | N/A | 1.29\% | N/A | N/A | N/A |
| WW GRAINGER INC | Gww | \$ | 13,462.28 | 0.06\% | 2.14\% | 11.80\% | 14.06\% | 0.0078\% |
| halliburton co | HAL | \$ | 42,641.07 | 0.18\% | 1.47\% | 74.00\% | 76.02\% | 0.1342\% |
| HASBRO INC | HAS | \$ | 11,320.86 | 0.05\% | 2.51\% | 9.70\% | 12.33\% | 0.0058\% |
| hUNTINGTON BANCSHARES InC | hban | \$ | 15,738.58 | 0.07\% | 2.40\% | 10.27\% | 12.80\% | 0.0083\% |
| HANESBRANDS INC | HBI | \$ | 7,623.46 | 0.03\% | 2.87\% | 8.56\% | 11.55\% | 0.0036\% |
| hCA HEALTHCARE INC | HCA | \$ | 31,099.97 | 0.13\% | 0.00\% | 11.08\% | 11.08\% | 0.0143\% |
| WELLTOWER INC | HCN | \$ | 23,617.66 | 0.10\% | 5.47\% | 2.21\% | 7.73\% | 0.0076\% |
| HCP INC | HCP | \$ | 12,234.35 | 0.05\% | 5.68\% | -3.91\% | 1.66\% | 0.0008\% |
| HOME DEPOT INC | HD | \$ | 221,323.40 | 0.92\% | 1.88\% | 14.01\% | 16.03\% | 0.1469\% |
| HESS CORP | HES | \$ | 15,083.78 | 0.06\% | 2.17\% | -14.90\% | -12.89\% | -0.0081\% |
| HARTFORD FINANCIAL SVCS GRP | HIG | \$ | 20,076.13 | 0.08\% | 1.70\% | 9.50\% | 11.28\% | 0.0094\% |
| HILTON WORLDWIDE HOLDINGS IN | HLT | \$ | 25,551.32 | 0.11\% | 0.75\% | 16.88\% | 17.69\% | 0.0187\% |
| HARLEY-DAVIDSON INC | Hog | \$ | 8,562.86 | 0.04\% | 2.89\% | 7.95\% | 10.96\% | 0.0039\% |
| HOLOGIC INC | HOLX | \$ | 11,785.47 | 0.05\% | 0.00\% | 8.82\% | 8.82\% | 0.0043\% |
| HONEYWELL INTERNATIONAL INC | HON | \$ | 116,833.14 | 0.48\% | 1.77\% | 8.82\% | 10.67\% | 0.0516\% |
| HELMERICH \& PAYNE | HP | \$ | 7,020.26 | N/A | 4.33\% | N/A | N/A | N/A |
| HEWLETT PACKARD ENTERPRISE | HPE | \$ | 22,888.20 | 0.09\% | 2.03\% | 3.18\% | 5.24\% | 0.0050\% |
| HP INC | HPQ | \$ | 34,566.25 | 0.14\% | 2.68\% | 5.93\% | 8.70\% | 0.0124\% |
| H\&R BLOCK INC | HRB | \$ | 5,481.79 | 0.02\% | 3.66\% | 11.00\% | 14.86\% | 0.0034\% |
| HORMEL FOODS CORP | HRL | \$ | 19,271.60 | 0.08\% | 2.06\% | 6.15\% | 8.27\% | 0.0066\% |
| HARRIS CORP | HRS | \$ | 16,884.76 | N/A | 1.61\% | N/A | N/A | N/A |
| HENRY SCHEIN INC | HSIC | \$ | 10,967.97 | 0.05\% | 0.00\% | 9.65\% | 9.65\% | 0.0044\% |
| HOST HOTELS \& RESORTS INC | HST | \$ | 14,690.75 | 0.06\% | 4.09\% | 3.80\% | 7.96\% | 0.0048\% |
| HERSHEY CO/THE | HSY | \$ | 23,916.03 | 0.10\% | 2.25\% | 9.73\% | 12.10\% | 0.0120\% |
| HUMANA INC | HUM | \$ | 35,439.30 | 0.15\% | 0.64\% | 11.71\% | 12.40\% | 0.0182\% |
| INTL BUSINESS MACHINES CORP | IBM | \$ | 142,034.91 | 0.59\% | 3.85\% | 3.77\% | 7.69\% | 0.0452\% |
| INTERCONTINENTAL EXCHANGE IN | ICE | \$ | 41,279.45 | 0.17\% | 1.14\% | 11.49\% | 12.69\% | 0.0217\% |
| IDEXX LABORATORIES INC | IDXX | \$ | 13,639.26 | 0.06\% | 0.00\% | 11.16\% | 11.16\% | 0.0063\% |
| INTL FLAVORS \& FRAGRANCES | IFF | \$ | 12,052.70 | 0.05\% | 0.00\% | 5.10\% | 5.10\% | 0.0025\% |
| ILLUMINA INC | ILMN | \$ | 31,899.54 | 0.13\% | 0.00\% | 14.70\% | 14.70\% | 0.0194\% |
| INCYTE CORP | incy | \$ | 19,987.34 | 0.08\% | 0.00\% | 40.42\% | 40.42\% | 0.0335\% |
| IHS MARKIT LTD | INFO | \$ | 18,010.03 | 0.07\% | 0.00\% | 13.06\% | 13.06\% | 0.0097\% |
| INTEL CORP | INTC | \$ | 216,028.80 | 0.89\% | 2.34\% | 8.56\% | 11.00\% | 0.0984\% |
| intuit inc | intu | \$ | 40,336.44 | 0.17\% | 0.99\% | 14.82\% | 15.88\% | 0.0265\% |
| INTERNATIONAL PAPER CO | IP | \$ | 23,925.06 | 0.10\% | 3.19\% | 7.18\% | 10.48\% | 0.0104\% |
| INTERPUBLIC GROUP OF COS INC | IPG | \$ | 7,834.35 | 0.03\% | 3.57\% | 4.57\% | 8.21\% | 0.0027\% |
| IQVIA HOLDINGS INC | IQV | \$ | 20,362.01 | 0.08\% | 0.00\% | 14.64\% | 14.64\% | 0.0123\% |
| INGERSOLL-RAND PLC | IR | \$ | 22,285.71 | 0.09\% | 1.88\% | 9.90\% | 11.87\% | 0.0110\% |
| IRON MOUNTAIN INC | IRM | \$ | 10,616.55 | N/A | 5.63\% | N/A | N/A | N/A |
| INTUITIVE SURGICAL INC | ISRG | \$ | 40,890.74 | 0.17\% | 0.00\% | 11.83\% | 11.83\% | 0.0200\% |
| GARTNER INC | $1 T$ | \$ | 11,163.72 | 0.05\% | 0.00\% | 17.50\% | 17.50\% | 0.0081\% |
| ILLINOIS TOOL WORKS | ITW | \$ | 57,162.64 | 0.24\% | 1.66\% | 9.79\% | 11.54\% | 0.0273\% |
| INVESCO LTD | IVZ | \$ | 14,874.65 | 0.06\% | 3.17\% | 13.39\% | 16.77\% | 0.0103\% |
| HUNT (JB) TRANSPRT SVCS INC | JBHT | \$ | 12,619.27 | 0.05\% | 0.80\% | 13.40\% | 14.25\% | 0.0074\% |
| JOHNSON CONTROLS INTERNATION | JCI | \$ | 35,268.33 | 0.15\% | 2.83\% | 11.93\% | 14.93\% | 0.0218\% |
| JACOBS ENGINEERING GROUP INC | JEC | \$ | 7,949.59 | 0.03\% | 0.91\% | 10.70\% | 11.65\% | 0.0038\% |
| JOHNSON \& JOHNSON | JNJ | \$ | 375,360.58 | 1.55\% | 2.38\% | 7.10\% | 9.56\% | 0.1486\% |
| JUNIPER NETWORKS INC | JNPR | \$ | 10,685.46 | 0.04\% | 1.42\% | 5.60\% | 7.06\% | 0.0031\% |
| JPMORGAN CHASE \& CO | JPM | \$ | 371,052.45 | 1.54\% | 1.98\% | 8.87\% | 10.94\% | 0.1680\% |
| NORDSTROM INC | JWN | \$ | 7,892.67 | 0.03\% | 3.18\% | 9.67\% | 13.00\% | 0.0042\% |
| kellogg co | K | \$ | 23,485.23 | 0.10\% | 3.12\% | 6.31\% | 9.52\% | 0.0093\% |
| KEYCORP | KEY | \$ | 21,690.81 | 0.09\% | 1.89\% | 12.32\% | 14.33\% | 0.0129\% |
| KRAFT HEINZ CO/THE | KHC | \$ | 94,748.06 | 0.39\% | 3.16\% | 7.01\% | 10.28\% | 0.0403\% |
| KIMCO REALTY CORP | KIM | \$ | 7,725.61 | 0.03\% | 6.07\% | 17.15\% | 23.73\% | 0.0076\% |
| KLA-TENCOR CORP | KLAC | \$ | 16,465.30 | 0.07\% | 2.20\% | 8.05\% | 10.34\% | 0.0070\% |
| KIMBERLY-CLARK CORP | KMB | \$ | 42,443.04 | 0.18\% | 3.19\% | 6.03\% | 9.31\% | 0.0164\% |
| KINDER MORGAN INC | KMı | \$ | 40,354.64 | 0.17\% | 2.77\% | 15.75\% | 18.73\% | 0.0313\% |
| CARMAX INC | кмх | \$ | 11,692.83 | 0.05\% | 0.00\% | 12.37\% | 12.37\% | 0.0060\% |
| COCA-COLA CO/THE | ko | \$ | 195,479.42 | 0.81\% | 3.22\% | 5.58\% | 8.89\% | 0.0719\% |
| MICHAEL KORS HOLDINGS LTD | KORS | \$ | 9,573.35 | 0.04\% | 0.00\% | 14.39\% | 14.39\% | 0.0057\% |
| KROGER CO | KR | \$ | 24,193.38 | 0.10\% | 1.84\% | 3.09\% | 4.96\% | 0.0050\% |
| KOHLS CORP | kss | \$ | 9,110.90 | 0.04\% | 4.06\% | 4.90\% | 9.06\% | 0.0034\% |
| KANSAS CITY SOUTHERN | KSU | \$ | 10,894.81 | 0.05\% | 1.33\% | 14.85\% | 16.28\% | 0.0073\% |
| LOEWS CORP | L | \$ | 16,841.66 | N/A | 0.50\% | N/A | N/A | N/A |
| L BRANDS INC | LB | \$ | 16,998.01 | 0.07\% | 3.99\% | 9.20\% | 13.37\% | 0.0094\% |
| LEGGETT \& PLATT INC | LEG | \$ | 6,291.64 | 0.03\% | 2.95\% | 17.40\% | 20.61\% | 0.0054\% |
| LENNAR CORP-A | LEN | \$ | 14,585.15 | 0.06\% | 0.25\% | 12.46\% | 12.73\% | 0.0077\% |
| LABORATORY CRP OF AMER HLDGS | LH | \$ | 16,238.12 | 0.07\% | 0.00\% | 10.50\% | 10.50\% | 0.0071\% |
| LKQ CORP | LKQ | \$ | 12,568.83 | 0.05\% | 0.00\% | 15.70\% | 15.70\% | 0.0082\% |
| L3 TECHNOLOGIES INC | LLL | \$ | 15,460.42 | 0.06\% | 1.59\% | 6.79\% | 8.42\% | 0.0054\% |
| ELI LILLY \& CO | LLY | \$ | 92,998.46 | 0.39\% | 2.49\% | 10.85\% | 13.47\% | 0.0519\% |
| LOCKHEED MARTIN CORP | LMT | \$ | 92,056.01 | 0.38\% | 2.30\% | 10.63\% | 13.05\% | 0.0497\% |
| LINCOLN NATIONAL CORP | LNC | \$ | 16,821.42 | 0.07\% | 1.55\% | 9.25\% | 10.87\% | 0.0076\% |
| ALLIANT ENERGY CORP | LNT | \$ | 9,851.62 | 0.04\% | 2.96\% | 6.10\% | 9.14\% | 0.0037\% |
| LOWE'S COS INC | LOW | \$ | 77,117.95 | 0.32\% | 1.69\% | 15.52\% | 17.34\% | 0.0554\% |
| LAM RESEARCH CORP | LRCX | \$ | 29,809.45 | 0.12\% | 0.97\% | 2.50\% | 3.48\% | 0.0043\% |
| LEUCADIA NATIONAL CORP | LUK | \$ | 9,437.67 | 0.04\% | 1.36\% | 18.00\% | 19.48\% | 0.0076\% |
| SOUTHWEST AIRLINES CO | LUV | \$ | 38,837.22 | 0.16\% | 0.69\% | 6.98\% | 7.70\% | 0.0124\% |
| LYONDELLBASELL INDU-CL A | LYB | \$ | 43,516.86 | 0.18\% | 3.23\% | 8.00\% | 11.36\% | 0.0205\% |
| MACY'S INC | M | \$ | 7,672.03 | 0.03\% | 6.15\% | 2.97\% | 9.21\% | 0.0029\% |
| MASTERCARD INC - A | MA | \$ | 160,239.33 | 0.66\% | 0.58\% | 17.85\% | 18.48\% | 0.1226\% |
| MID-AMERICA APARTMENT COMM | MAA | \$ | 11,426.33 | N/A | 3.48\% | N/A | N/A | N/A |
| MACERICH CO/THE | MAC | \$ | 9,245.96 | 0.04\% | 4.66\% | 7.36\% | 12.18\% | 0.0047\% |
| MARRIOTT INTERNATIONAL -CL A | MAR | \$ | 49,484.62 | 0.20\% | 0.95\% | 14.16\% | 15.18\% | 0.0311\% |
| MASCO CORP | MAS | \$ | 13,822.00 | 0.06\% | 0.93\% | 15.44\% | 16.44\% | 0.0094\% |
| MATTEL INC | MAT | \$ | 5,286.56 | 0.02\% | 5.33\% | 9.73\% | 15.32\% | 0.0034\% |
| MCDONALD'S CORP | MCD | \$ | 137,211.58 | 0.57\% | 2.22\% | 9.86\% | 12.19\% | 0.0693\% |
| MICROCHIP TECHNOLOGY INC | MCHP | \$ | 20,555.61 | 0.09\% | 1.65\% | 14.18\% | 15.94\% | 0.0136\% |
| MCKESSON CORP | мск | \$ | 32,511.59 | 0.13\% | 0.83\% | 10.30\% | 11.18\% | 0.0150\% |
| MOODY'S CORP | MCO | \$ | 28,208.27 | 0.12\% | 1.03\% | 8.00\% | 9.07\% | 0.0106\% |
| MONDELEZ INTERNATIONAL INC-A | MDLZ | \$ | 63,959.83 | 0.26\% | 1.86\% | 11.64\% | 13.61\% | 0.0361\% |
| MEDTRONIC PLC | MDT | \$ | 109,294.96 | 0.45\% | 2.31\% | 5.96\% | 8.33\% | 0.0377\% |
| METLIFE INC | MET | \$ | 53,204.25 | 0.22\% | 3.16\% | 9.00\% | 12.31\% | 0.0271\% |
| MGM RESORTS INTERNATIONAL | MGM | \$ | 18,903.36 | 0.08\% | 1.32\% | 7.47\% | 8.83\% | 0.0069\% |
| MOHAWK INDUSTRIES INC | MHK | \$ | 20,509.90 | 0.08\% | 0.00\% | 7.95\% | 7.95\% | 0.0068\% |


| MCCORMICK \& CO-NON VTG SHRS | mкс | \$ | 13,329.40 | 0.06\% | 1.84\% | 9.70\% | 11.63\% | 0.0064\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MARTIN MARIETTA MATERIALS | MLM | \$ | 13,894.48 | 0.06\% | 0.78\% | 20.67\% | 21.52\% | 0.0124\% |
| MARSH \& MCLENNAN COS | ммС | \$ | 41,537.94 | 0.17\% | 1.76\% | 12.39\% | 14.26\% | 0.0245\% |
| 3M CO | mmm | \$ | 140,188.28 | 0.58\% | 2.00\% | 8.67\% | 10.75\% | 0.0624\% |
| MONSTER BEVERAGE CORP | MNST | \$ | 35,693.24 | 0.15\% | 0.00\% | 20.30\% | 20.30\% | 0.0300\% |
| ALTRIA GROUP INC | мо | \$ | 136,263.82 | 0.56\% | 3.60\% | 8.06\% | 11.81\% | 0.0666\% |
| MONSANTO CO | MON | \$ | 51,476.72 | 0.21\% | 2.00\% | 8.10\% | 10.18\% | 0.0217\% |
| MOSAIC CO/THE | MOS | \$ | 9,007.93 | 0.04\% | 2.34\% | 13.45\% | 15.95\% | 0.0059\% |
| MARATHON PETROLEUM CORP | MPC | \$ | 32,225.43 | 0.13\% | 2.31\% | 13.28\% | 15.74\% | 0.0210\% |
| MERCK \& CO. INC. | mRK | \$ | 153,304.06 | 0.63\% | 3.13\% | 5.19\% | 8.40\% | 0.0533\% |
| MARATHON OIL CORP | MRO | \$ | 14,384.80 | 0.06\% | 1.18\% | 5.00\% | 6.21\% | 0.0037\% |
| MORGAN STANLEY | ms | \$ | 94,860.47 | 0.39\% | 1.73\% | 15.84\% | 17.71\% | 0.0695\% |
| MICROSOFT CORP | MSFT | \$ | 659,906.05 | 2.73\% | 1.95\% | 10.32\% | 12.37\% | 0.3380\% |
| MOTOROLA SOLUTIONS INC | MSI | \$ | 14,635.06 | 0.06\% | 2.16\% | 4.35\% | 6.56\% | 0.0040\% |
| M \& TBANK CORP | мтв | \$ | 25,736.62 | 0.11\% | 1.76\% | 9.02\% | 10.86\% | 0.0116\% |
| METTLER-TOLEDO INTERNATIONAL | MTD | \$ | 15,846.78 | 0.07\% | 0.00\% | 12.16\% | 12.16\% | 0.0080\% |
| MICRON TECHNOLOGY INC | MU | \$ | 47,547.67 | 0.20\% | 0.41\% | 1.60\% | 2.01\% | 0.0040\% |
| MYLAN NV | MYL | \$ | 22,696.62 | 0.09\% | 0.00\% | 2.95\% | 2.95\% | 0.0028\% |
| NAVIENT CORP | NAVI | \$ | 3,503.32 | N/A | 4.80\% | N/A | N/A | N/A |
| NOBLE ENERGY InC | NBL | \$ | 14,179.74 | 0.06\% | 1.37\% | 3.72\% | 5.11\% | 0.0030\% |
| NORWEGIAN CRUISE LINE HOLDIN | NCLH | \$ | 12,165.70 | 0.05\% | 0.00\% | 14.33\% | 14.33\% | 0.0072\% |
| NASDAQ INC | NDAQ | \$ | 12,771.16 | 0.05\% | 1.91\% | 9.82\% | 11.82\% | 0.0063\% |
| NEXTERA ENERGY INC | NEE | \$ | 73,471.40 | 0.30\% | 2.52\% | 7.11\% | 9.71\% | 0.0295\% |
| NEWMONT MINING CORP | NEM | \$ | 20,010.78 | 0.08\% | 0.71\% | -11.20\% | -10.53\% | -0.0087\% |
| NETFLIX INC | NFLX | \$ | 83,067.07 | 0.34\% | 0.00\% | 39.74\% | 39.74\% | 0.1367\% |
| NEWFIELD EXPLORATION CO | NFX | \$ | 6,293.98 | 0.03\% | 0.00\% | 12.36\% | 12.36\% | 0.0032\% |
| NISOURCE INC | N | \$ | 8,645.49 | 0.04\% | 2.72\% | 7.63\% | 10.46\% | 0.0037\% |
| NIKE INC -CL b | NKE | \$ | 102,051.48 | 0.42\% | 1.22\% | 9.65\% | 10.92\% | 0.0462\% |
| NIELSEN HOLDINGS PLC | NLSN | \$ | 12,964.52 | 0.05\% | 3.71\% | 9.50\% | 13.38\% | 0.0072\% |
| NORTHROP GRUMMAN CORP | NOC | \$ | 53,426.44 | 0.22\% | 1.26\% | 7.81\% | 9.11\% | 0.0202\% |
| NATIONAL OILWELL VARCO INC | Nov | \$ | 13,688.76 | N/A | 0.56\% | N/A | N/A | N/A |
| NRG ENERGY INC | NRG | \$ | 9,017.96 | 0.04\% | 0.51\% | 23.53\% | 24.10\% | 0.0090\% |
| NORFOLK SOUTHERN CORP | NSC | \$ | 41,462.96 | 0.17\% | 1.69\% | 14.23\% | 16.05\% | 0.0276\% |
| NETAPP INC | NTAP | \$ | 14,758.92 | 0.06\% | 1.45\% | 12.15\% | 13.68\% | 0.0084\% |
| NORTHERN TRUST CORP | NTRS | \$ | 22,717.10 | 0.09\% | 1.61\% | 11.68\% | 13.38\% | 0.0126\% |
| NUCOR CORP | NUE | \$ | 20,213.14 | 0.08\% | 2.38\% | 12.00\% | 14.52\% | 0.0122\% |
| NVIDIA CORP | NVDA | \$ | 117,261.00 | 0.49\% | 0.29\% | 12.00\% | 12.31\% | 0.0598\% |
| NEWELL BRANDS INC | NWL | \$ | 15,144.09 | 0.06\% | 2.85\% | 4.42\% | 7.33\% | 0.0046\% |
| NEWS CORP - CLASS A | NWSA | \$ | 9,522.16 | 0.04\% | 1.33\% | 19.03\% | 20.49\% | 0.0081\% |
| REALTY INCOME CORP | $\bigcirc$ | \$ | 16,067.40 | 0.07\% | 4.44\% | 4.94\% | 9.50\% | 0.0063\% |
| ONEOK INC | OKE | \$ | 20,494.69 | 0.08\% | 5.33\% | 12.75\% | 18.42\% | 0.0156\% |
| OMNICOM GROUP | омС | \$ | 16,789.69 | 0.07\% | 3.08\% | 4.80\% | 7.95\% | 0.0055\% |
| ORACLE CORP | ORCL | \$ | 195,720.38 | 0.81\% | 1.52\% | 8.28\% | 9.86\% | 0.0799\% |
| O'REILLY AUTOMOTIVE INC | ORLY | \$ | 20,452.56 | 0.08\% | 0.00\% | 15.33\% | 15.33\% | 0.0130\% |
| OCCIDENTAL PETROLEUM CORP | OXY | \$ | 56,367.97 | 0.23\% | 4.15\% | -3.12\% | 0.97\% | 0.0023\% |
| PAYCHEXINC | PAYX | \$ | 24,453.35 | 0.10\% | 2.92\% | 8.50\% | 11.54\% | 0.0117\% |
| PEOPLE'S UNITED FINANCIAL | PBCT | \$ | 6,474.91 | 0.03\% | 3.68\% | 2.00\% | 5.72\% | 0.0015\% |
| PACCAR INC | PCAR | \$ | 24,992.45 | 0.10\% | 2.54\% | 7.50\% | 10.13\% | 0.0105\% |
| PG\&ECORP | PCG | \$ | 23,061.57 | 0.10\% | 4.46\% | 5.15\% | 9.73\% | 0.0093\% |
| PRICELINE GROUP INC/THE | PCLN | \$ | 84,748.79 | 0.35\% | 0.00\% | 16.96\% | 16.96\% | 0.0595\% |
| PATTERSON COS INC | PDCO | \$ | 3,425.99 | 0.01\% | 2.97\% | 5.57\% | 8.62\% | 0.0012\% |
| PUBLIC SERVICE ENTERPRISE GP | PEG | \$ | 26,061.00 | 0.11\% | 3.34\% | 2.31\% | 5.69\% | 0.0061\% |
| PEPSICO INC | PEP | \$ | 170,543.43 | 0.71\% | 2.63\% | 6.21\% | 8.93\% | 0.0630\% |
| PFIZER INC | PFE | \$ | 215,896.82 | 0.89\% | 3.51\% | 7.02\% | 10.65\% | 0.0952\% |
| PRINCIPAL FINANCIAL GROUP | PFG | \$ | 20,374.53 | 0.08\% | 2.64\% | 10.40\% | 13.18\% | 0.0111\% |
| PROCTER \& GAMBLE CO/THE | PG | \$ | 233,095.71 | 0.97\% | 3.07\% | 7.31\% | 10.50\% | 0.1013\% |
| PROGRESSIVE CORP | PGR | \$ | 32,755.71 | 0.14\% | 1.48\% | 11.93\% | 13.50\% | 0.0183\% |
| PARKER HANNIFIN CORP | PH | \$ | 26,589.26 | 0.11\% | 1.33\% | 11.49\% | 12.90\% | 0.0142\% |
| PULTEGROUP INC | PHM | \$ | 9,774.42 | 0.04\% | 0.99\% | 20.04\% | 21.13\% | 0.0086\% |
| PACKAGING CORP OF AMERICA | PKG | \$ | 11,373.95 | 0.05\% | 2.05\% | 8.50\% | 10.64\% | 0.0050\% |
| PERKINELMER INC | PKI | \$ | 8,059.67 | 0.03\% | 0.38\% | 54.39\% | 54.88\% | 0.0183\% |
| PROLOGIS INC | PLD | \$ | 34,161.90 | 0.14\% | 2.70\% | 7.49\% | 10.30\% | 0.0146\% |
| PHILIP MORRIS INTERNATIONAL | PM | \$ | 164,095.85 | 0.68\% | 3.99\% | 9.39\% | 13.57\% | 0.0922\% |
| PNC FINANCIAL SERVICES GROUP | PNC | \$ | 68,653.34 | 0.28\% | 1.82\% | 10.09\% | 11.99\% | 0.0341\% |
| PENTAIR PLC | PNR | \$ | 12,824.41 | 0.05\% | 1.96\% | 8.18\% | 10.22\% | 0.0054\% |
| PINNACLE WEST CAPITAL | PNW | \$ | 9,517.14 | 0.04\% | 3.14\% | 4.06\% | 7.27\% | 0.0029\% |
| PPG INDUSTRIES INC | PPG | \$ | 29,727.88 | 0.12\% | 1.47\% | 7.65\% | 9.17\% | 0.0113\% |
| PPL CORP | PPL | \$ | 21,297.72 | 0.09\% | 5.11\% | -1.00\% | 4.08\% | 0.0036\% |
| PERRIGO CO PLC | PRGO | \$ | 12,275.68 | 0.05\% | 0.73\% | 6.43\% | 7.19\% | 0.0037\% |
| PRUDENTIAL FINANCIAL INC | PRU | \$ | 48,751.52 | 0.20\% | 2.66\% | 11.45\% | 14.26\% | 0.0288\% |
| PUBLIC Storage | PSA | \$ | 36,374.61 | 0.15\% | 3.85\% | 4.87\% | 8.81\% | 0.0133\% |
| PHILLIPS 66 | PSX | \$ | 51,256.80 | 0.21\% | 2.70\% | -18.87\% | -16.42\% | -0.0348\% |
| PVH CORP | PVH | \$ | 10,555.47 | 0.04\% | 0.12\% | 10.69\% | 10.82\% | 0.0047\% |
| QUANTA SERVICES INC | PWR | \$ | 6,070.14 | N/A | 0.00\% | N/A | N/A | N/A |
| PRAXAIR INC | PX | \$ | 44,285.71 | 0.18\% | 2.04\% | 12.80\% | 14.97\% | 0.0274\% |
| PIONEER NATURAL RESOURCES CO | PXD | \$ | 29,413.07 | 0.12\% | 0.05\% | 20.00\% | 20.05\% | 0.0244\% |
| PAYPAL HOLDINGS INC | PYPL | \$ | 88,484.64 | 0.37\% | 0.00\% | 20.77\% | 20.77\% | 0.0761\% |
| QUALCOMM INC | QCOM | \$ | 94,376.02 | 0.39\% | 3.67\% | 10.47\% | 14.32\% | 0.0560\% |
| QORVO INC | QRVO | \$ | 8,468.06 | 0.04\% | 0.00\% | 14.02\% | 14.02\% | 0.0049\% |
| ROYAL CARIBBEAN CRUISES LTD | RCL | \$ | 25,536.53 | 0.11\% | 1.79\% | 20.40\% | 22.37\% | 0.0237\% |
| EVEREST RE GROUP LTD | RE | \$ | 9,087.08 | 0.04\% | 2.29\% | 10.00\% | 12.41\% | 0.0047\% |
| REGENCY CENTERS CORP | REG | \$ | 11,779.71 | 0.05\% | 3.05\% | 9.27\% | 12.47\% | 0.0061\% |
| REGENERON PHARMACEUTICALS | REGN | \$ | 40,393.00 | 0.17\% | 0.00\% | 16.95\% | 16.95\% | 0.0283\% |
| REGIONS FINANCIAL CORP | RF | \$ | 20,044.31 | 0.08\% | 1.85\% | 11.88\% | 13.84\% | 0.0115\% |
| ROBERT HALF INTL INC | RHI | \$ | 6,961.93 | 0.03\% | 1.72\% | 8.90\% | 10.70\% | 0.0031\% |
| RED HAT INC | RHT | \$ | 21,251.36 | 0.09\% | 0.00\% | 17.25\% | 17.25\% | 0.0152\% |
| RAYMOND JAMES FINANCIAL INC | RJF | \$ | 12,894.97 | 0.05\% | 1.12\% | 14.50\% | 15.70\% | 0.0084\% |
| RALPH LAUREN CORP | RL | \$ | 8,427.51 | 0.03\% | 1.97\% | 1.58\% | 3.57\% | 0.0012\% |
| RESMED INC | RMD | \$ | 12,017.84 | 0.05\% | 1.77\% | 13.40\% | 15.29\% | 0.0076\% |
| ROCKWELL AUTOMATION INC | ROK | \$ | 25,209.78 | 0.10\% | 1.64\% | 10.85\% | 12.58\% | 0.0131\% |
| ROPER TECHNOLOGIES INC | ROP | \$ | 26,511.81 | 0.11\% | 0.54\% | 12.83\% | 13.40\% | 0.0147\% |
| ROSS STORES INC | ROST | \$ | 30,667.22 | 0.13\% | 0.80\% | 13.00\% | 13.85\% | 0.0176\% |
| RANGE RESOURCES CORP | RRC | \$ | 4,233.26 | 0.02\% | 0.47\% | 29.16\% | 29.70\% | 0.0052\% |
| REPUBLIC SERVICES INC | RSG | \$ | 22,596.92 | 0.09\% | 1.93\% | 10.78\% | 12.82\% | 0.0120\% |
| RAYTHEON COMPANY | RTN | \$ | 54,304.99 | 0.22\% | 1.67\% | 8.71\% | 10.45\% | 0.0235\% |
| SBA COMMUNICATIONS CORP | SBAC | \$ | 19,201.77 | 0.08\% | 0.00\% | 22.70\% | 22.70\% | 0.0180\% |
| STARBUCKS CORP | SBUX | \$ | 81,711.40 | 0.34\% | 2.13\% | 15.90\% | 18.20\% | 0.0616\% |
| SCANA CORP | sCG | \$ | 5,673.27 | 0.02\% | 6.16\% | -1.39\% | 4.72\% | 0.0011\% |
| SCHWAB (CHARLES) CORP | SCHw | \$ | 68,865.41 | 0.29\% | 0.62\% | 18.82\% | 19.50\% | 0.0556\% |
| SEALED AIR CORP | SEE | \$ | 8,893.05 | 0.04\% | 1.29\% | 6.12\% | 7.45\% | 0.0027\% |
| SHERWIN-WILLIAMS COITHE | SHW | \$ | 38,344.45 | 0.16\% | 0.83\% | 11.24\% | 12.12\% | 0.0192\% |
| SIGNET JEWELERS LTD | SIG | \$ | 3,422.18 | 0.01\% | 2.16\% | 4.17\% | 6.37\% | 0.0009\% |
| JM Smucker Coithe | SJM | \$ | 14,113.36 | 0.06\% | 2.49\% | 5.05\% | 7.60\% | 0.0044\% |
| SCHLUMBERGER LTD | SLB | \$ | 93,352.79 | 0.39\% | 2.84\% | 44.17\% | 47.64\% | 0.1841\% |
| SL GREEN REALTY CORP | SLG | \$ | 10,069.07 | 0.04\% | 3.09\% | 0.35\% | 3.45\% | 0.0014\% |
| SNAP-ON INC | SNA | \$ | 9,936.35 | 0.04\% | 1.87\% | 10.75\% | 12.72\% | 0.0052\% |
| SCRIPPS NETWORKS INTER-CL A | SNI | \$ | 11,092.20 | 0.05\% | 1.37\% | 5.75\% | 7.16\% | 0.0033\% |


| SYNOPSYS INC | SNPS | \$ | 12,676.35 | 0.05\% | 0.00\% | 10.00\% | 10.00\% | 0.0052\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SOUTHERN CO/THE | SO | \$ | 48,064.71 | 0.20\% | 4.80\% | 4.10\% | 9.00\% | 0.0179\% |
| SIMON PROPERTY GROUP INC | SPG | \$ | 53,387.16 | 0.22\% | 4.17\% | 6.67\% | 10.98\% | 0.0243\% |
| S\&P GLOBAL INC | SPGI | \$ | 43,197.00 | 0.18\% | 0.97\% | 10.00\% | 11.01\% | 0.0197\% |
| STERICYCLE INC | SRCL | \$ | 5,804.50 | 0.02\% | 0.22\% | 8.83\% | 9.06\% | 0.0022\% |
| SEMPRA ENERGY | SRE | \$ | 26,845.22 | 0.11\% | 3.07\% | 12.34\% | 15.60\% | 0.0173\% |
| SUNTRUST BANKS INC | STI | \$ | 30,746.99 | 0.13\% | 2.05\% | 8.51\% | 10.65\% | 0.0136\% |
| STATE STREET CORP | STT | \$ | 36,197.37 | 0.15\% | 1.64\% | 13.71\% | 15.47\% | 0.0232\% |
| SEAGATE TECHNOLOGY | STX | \$ | 12,105.09 | 0.05\% | 6.13\% | 10.40\% | 16.84\% | 0.0084\% |
| CONSTELLATION BRANDS INC-A | STZ | \$ | 44,685.32 | 0.19\% | 0.91\% | 16.51\% | 17.50\% | 0.0324\% |
| STANLEY BLACK \& DECKER INC | SWK | \$ | 26,022.25 | 0.11\% | 1.43\% | 11.00\% | 12.50\% | 0.0135\% |
| SKYWORKS SOLUTIONS INC | SWKS | \$ | 17,393.85 | 0.07\% | 1.34\% | 13.08\% | 14.51\% | 0.0104\% |
| SYNCHRONY FINANCIAL | SYF | \$ | 30,215.86 | 0.13\% | 1.45\% | 5.60\% | 7.09\% | 0.0089\% |
| STRYKER CORP | SYK | \$ | 57,946.95 | 0.24\% | 1.10\% | 9.37\% | 10.52\% | 0.0252\% |
| SYMANTEC CORP | SYMC | \$ | 17,396.70 | 0.07\% | 1.13\% | 10.30\% | 11.49\% | 0.0083\% |
| SYSCO CORP | SYY | \$ | 31,643.75 | 0.13\% | 2.25\% | 10.99\% | 13.37\% | 0.0175\% |
| AT\&T INC | T | \$ | 238,684.32 | 0.99\% | 5.06\% | 5.10\% | 10.29\% | 0.1017\% |
| MOLSON COORS BREWING CO -B | TAP | \$ | 17,699.87 | 0.07\% | 2.00\% | 6.96\% | 9.02\% | 0.0066\% |
| TRANSDIGM GROUP INC | TDG | \$ | 14,269.17 | 0.06\% | 0.00\% | 9.76\% | 9.76\% | 0.0058\% |
| TE CONNECTIVITY LTD | TEL | \$ | 33,419.60 | 0.14\% | 1.72\% | 7.01\% | 8.79\% | 0.0122\% |
| TARGET CORP | TGT | \$ | 35,468.12 | 0.15\% | 3.81\% | -0.05\% | 3.75\% | 0.0055\% |
| TIFFANY \& CO | TIF | \$ | 12,918.64 | 0.05\% | 1.90\% | 10.48\% | 12.48\% | 0.0067\% |
| TJX COMPANIES INC | TJX | \$ | 48,345.85 | 0.20\% | 1.58\% | 12.67\% | 14.35\% | 0.0287\% |
| TORCHMARK CORP | TMK | \$ | 10,472.18 | 0.04\% | 0.65\% | 8.00\% | 8.68\% | 0.0038\% |
| THERMO FISHER SCIENTIFIC INC | TMO | \$ | 76,141.00 | 0.32\% | 0.32\% | 12.50\% | 12.84\% | 0.0405\% |
| TAPESTRY INC | TPR | \$ | 12,577.92 | 0.05\% | 3.11\% | 11.63\% | 14.92\% | 0.0078\% |
| TRIPADVISOR INC | TRIP | \$ | 4,785.78 | 0.02\% | 0.00\% | 12.82\% | 12.82\% | 0.0025\% |
| T ROWE PRICE GROUP INC | TROW | \$ | 25,425.59 | 0.11\% | 2.17\% | 12.94\% | 15.25\% | 0.0161\% |
| TRAVELERS COS INC/THE | TRV | \$ | 37,124.11 | 0.15\% | 2.09\% | 6.95\% | 9.11\% | 0.0140\% |
| TRACTOR SUPPLY COMPANY | TSCO | \$ | 9,385.94 | 0.04\% | 1.41\% | 12.40\% | 13.90\% | 0.0054\% |
| TYSON FOODS INC-CL A | TSN | \$ | 32,368.73 | 0.13\% | 1.43\% | 9.60\% | 11.10\% | 0.0149\% |
| TOTAL SYSTEM SERVICES INC | TSS | \$ | 14,540.40 | 0.06\% | 0.51\% | 12.75\% | 13.29\% | 0.0080\% |
| TIME WARNER INC | TWX | \$ | 71,217.90 | 0.29\% | 1.80\% | 8.30\% | 10.18\% | 0.0300\% |
| TEXAS INSTRUMENTS INC | TXN | \$ | 102,931.95 | 0.43\% | 2.03\% | 10.74\% | 12.88\% | 0.0549\% |
| TEXTRON INC | TXT | \$ | 14,906.96 | 0.06\% | 0.15\% | 8.81\% | 8.97\% | 0.0055\% |
| UNDER ARMOUR INC-CLASS A | UAA | \$ | 6,108.03 | 0.03\% | 0.00\% | 10.44\% | 10.44\% | 0.0026\% |
| UNITED CONTINENTAL HOLDINGS | UAL | \$ | 20,504.79 | 0.08\% | 0.00\% | -0.39\% | -0.39\% | -0.0003\% |
| UDR INC | UDR | \$ | 10,313.96 | 0.04\% | 3.22\% | 5.95\% | 9.27\% | 0.0040\% |
| UNIVERSAL HEALTH SERVICES-B | UHS | \$ | 10,758.26 | 0.04\% | 0.26\% | 7.97\% | 8.25\% | 0.0037\% |
| ULTA BEAUTY INC | ULTA | \$ | 13,641.56 | 0.06\% | 0.00\% | 17.00\% | 17.00\% | 0.0096\% |
| UNITEDHEALTH GROUP INC | UNH | \$ | 213,640.61 | 0.88\% | 1.31\% | 12.40\% | 13.79\% | 0.1220\% |
| UNUM GROUP | UNM | \$ | 12,316.72 | 0.05\% | 1.56\% | 5.00\% | 6.60\% | 0.0034\% |
| UNION PACIFIC CORP | UNP | \$ | 105,559.34 | 0.44\% | 1.82\% | 12.10\% | 14.03\% | 0.0613\% |
| UNITED PARCEL SERVICE-CL B | UPS | \$ | 102,675.29 | 0.43\% | 2.78\% | 9.18\% | 12.09\% | 0.0514\% |
| UNITED RENTALS INC | URI | \$ | 14,539.22 | 0.06\% | 0.00\% | 14.17\% | 14.17\% | 0.0085\% |
| US BANCORP | USB | \$ | 88,915.54 | 0.37\% | 2.17\% | 7.93\% | 10.19\% | 0.0375\% |
| UNITED TECHNOLOGIES CORP | UTX | \$ | 101,873.56 | 0.42\% | 2.19\% | 8.82\% | 11.11\% | 0.0469\% |
| VISA INC-CLASS A SHARES | V | \$ | 258,391.72 | 1.07\% | 0.68\% | 16.33\% | 17.06\% | 0.1826\% |
| VARIAN MEDICAL SYSTEMS INC | VAR | \$ | 10,165.00 | 0.04\% | 0.00\% | 6.40\% | 6.40\% | 0.0027\% |
| VF CORP | VFC | \$ | 29,241.03 | 0.12\% | 2.32\% | 8.50\% | 10.92\% | 0.0132\% |
| VIACOM INC-CLASS B | VIAB | \$ | 12,595.75 | 0.05\% | 2.65\% | 3.02\% | 5.71\% | 0.0030\% |
| VALERO ENERGY CORP | VLO | \$ | 40,218.10 | 0.17\% | 3.05\% | 9.86\% | 13.06\% | 0.0217\% |
| VULCAN MATERIALS CO | VmC | \$ | 16,981.36 | 0.07\% | 0.78\% | 23.30\% | 24.17\% | 0.0170\% |
| VORNADO REALTY TRUST | VNO | \$ | 14,844.65 | 0.06\% | 3.26\% | -0.72\% | 2.53\% | 0.0016\% |
| VERISK ANALYTICS INC | VRSK | \$ | 15,810.42 | 0.07\% | 0.00\% | 8.58\% | 8.58\% | 0.0056\% |
| VERISIGN INC | VRSN | \$ | 11,280.36 | 0.05\% | 0.00\% | 10.50\% | 10.50\% | 0.0049\% |
| VERTEX PHARMACEUTICALS INC | VRTX | \$ | 37,900.02 | 0.16\% | 0.00\% | 70.84\% | 70.84\% | 0.1112\% |
| VENTAS INC | VTR | \$ | 21,373.39 | 0.09\% | 5.19\% | 2.75\% | 8.01\% | 0.0071\% |
| VERIZON COMMUNICATIONS INC | VZ | \$ | 215,924.80 | 0.89\% | 4.42\% | 2.21\% | 6.67\% | 0.0597\% |
| WATERS CORP | WAT | \$ | 15,364.98 | 0.06\% | 0.00\% | 8.37\% | 8.37\% | 0.0053\% |
| WALGREENS BOOTS ALLIANCE INC | WBA | \$ | 71,919.63 | 0.30\% | 2.25\% | 10.97\% | 13.34\% | 0.0397\% |
| WESTERN DIGITAL CORP | WDC | \$ | 23,523.91 | 0.10\% | 2.54\% | 14.08\% | 16.80\% | 0.0164\% |
| WEC ENERGY GROUP INC | WEC | \$ | 20,963.68 | 0.09\% | 3.13\% | 5.68\% | 8.90\% | 0.0077\% |
| WELLS FARGO \& CO | WFC | \$ | 298,754.94 | 1.24\% | 2.54\% | 22.22\% | 25.04\% | 0.3097\% |
| WHIRLPOOL CORP | WHR | \$ | 12,118.94 | 0.05\% | 2.51\% | 7.23\% | 9.83\% | 0.0049\% |
| WILLIS TOWERS WATSON PLC | WLTW | \$ | 19,896.93 | 0.08\% | 1.40\% | 13.15\% | 14.64\% | 0.0121\% |
| WASTE MANAGEMENT INC | WM | \$ | 37,472.85 | 0.16\% | 1.97\% | 10.35\% | 12.43\% | 0.0193\% |
| WILLIAMS COS INC | WMB | \$ | 25,207.50 | 0.10\% | 3.94\% | 2.30\% | 6.28\% | 0.0066\% |
| WAL-MART STORES INC | WMT | \$ | 292,535.17 | 1.21\% | 2.07\% | 5.45\% | 7.57\% | 0.0917\% |
| WESTROCK CO | WRK | \$ | 16,102.72 | 0.07\% | 2.73\% | 9.03\% | 11.89\% | 0.0079\% |
| WESTERN UNION CO | WU | \$ | 8,731.15 | 0.04\% | 3.68\% | 8.00\% | 11.83\% | 0.0043\% |
| WEYERHAEUSER CO | WY | \$ | 26,615.29 | 0.11\% | 3.53\% | 9.50\% | 13.20\% | 0.0145\% |
| WYNDHAM WORLDWIDE CORP | WYN | \$ | 11,740.67 | 0.05\% | 2.01\% | 13.65\% | 15.80\% | 0.0077\% |
| WYNN RESORTS LTD | WYNN | \$ | 17,328.11 | 0.07\% | 1.20\% | 32.40\% | 33.80\% | 0.0243\% |
| CIMAREX ENERGY CO | XEC | \$ | 11,622.78 | 0.05\% | 0.26\% | 63.22\% | 63.57\% | 0.0306\% |
| XCEL ENERGY INC | XEL | \$ | 24,428.47 | 0.10\% | 2.99\% | 5.97\% | 9.05\% | 0.0092\% |
| XL GROUP LTD | XL | \$ | 9,001.49 | 0.04\% | 2.15\% | 20.45\% | 22.82\% | 0.0085\% |
| XILINX INC | XLNX | \$ | 16,919.24 | 0.07\% | 2.08\% | 8.30\% | 10.47\% | 0.0073\% |
| EXXON MOBIL CORP | XOM | \$ | 354,391.55 | 1.47\% | 3.66\% | 16.27\% | 20.23\% | 0.2968\% |
| DENTSPLY SIRONA INC | XRAY | \$ | 15,120.03 | 0.06\% | 0.51\% | 10.15\% | 10.69\% | 0.0067\% |
| XEROX CORP | XRX | \$ | 7,421.19 | 0.03\% | 3.43\% | 2.90\% | 6.38\% | 0.0020\% |
| XYLEM INC | XYL | \$ | 12,248.72 | 0.05\% | 1.06\% | 15.35\% | 16.49\% | 0.0084\% |
| YUM! BRANDS INC | YUM | \$ | 27,502.05 | 0.11\% | 1.40\% | 12.98\% | 14.47\% | 0.0165\% |
| ZIMMER BIOMET HOLDINGS INC | ZBH | \$ | 24,432.43 | 0.10\% | 0.80\% | 6.97\% | 7.80\% | 0.0079\% |
| ZIONS BANCORPORATION | ZION | \$ | 10,152.98 | 0.04\% | 0.86\% | 9.00\% | 9.90\% | 0.0042\% |
| ZOETIS INC | ZTS | \$ | 35,104.25 | 0.15\% | 0.58\% | 15.14\% | 15.76\% | 0.0229\% |
|  | apitalizat | \$ | 4,151,835.62 |  |  |  |  | 13.78\% |

Notes:
1] Equals sum of Col. [9]
2] Source: Bloomberg Professional
3] Equals [1] - [2]
4] Source: Bloomberg Professional
5] Equals weight in S\&P 500 based on market capitalization
6] Source: Bloomberg Professional
7] Source: Bloomberg Professiona
8] Equals ([6] x (1 + (0.5 x [7]))) $+[7]$
[9] Equals Col. [5] x Col. [8]

| $[1]$ | $[2]$ | $[3]$ |
| :---: | :---: | :---: |
| S\&P 500 | Current 30-Year |  |
| Est. Required | Treasury (30-day | Implied Market |
| Market Return | average) | Risk Premium |
| $14.67 \%$ | $2.77 \%$ | $11.89 \%$ |



| CBRE GROUP INC - A | CBG | \$ | 14,705.36 | 0.07\% | 0.00\% | 8.50\% | 8.50\% | 0.0057\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBOE GLOBAL MARKETS INC | Cboe | \$ | 14,140.27 | 0.06\% | 0.87\% | 13.00\% | 13.93\% | 0.0090\% |
| CBS CORP-CLASS B NON VOTING | CBS | \$ | 24,212.00 | 0.11\% | 1.19\% | 13.50\% | 14.77\% | 0.0164\% |
| CROWN CASTLE INTL CORP | CCI | \$ | 43,950.83 | 0.20\% | 3.98\% | 8.50\% | 12.65\% | 0.0255\% |
| CARNIVAL CORP | CCL | \$ | 47,831.14 | 0.22\% | 2.71\% | 12.50\% | 15.38\% | 0.0337\% |
| CADENCE DESIGN SYS INC | CDNS | \$ | 11,994.65 | 0.05\% | 0.00\% | 10.00\% | 10.00\% | 0.0055\% |
| CELGENE CORP | CELG | \$ | 84,912.35 | 0.39\% | 0.00\% | 25.00\% | 25.00\% | 0.0973\% |
| CERNER CORP | CERN | \$ | 22,560.73 | 0.10\% | 0.00\% | 9.50\% | 9.50\% | 0.0098\% |
| CF INDUSTRIES HOLDINGS INC | CF | \$ | 9,621.85 | 0.04\% | 3.08\% | 9.50\% | 12.73\% | 0.0056\% |
| CITIZENS FINANCIAL GROUP | CFG | \$ | 21,278.91 | 0.10\% | 1.88\% | 10.50\% | 12.48\% | 0.0122\% |
| CHURCH \& DWIGHT CO INC | CHD | \$ | 12,360.89 | 0.06\% | 1.54\% | 7.50\% | 9.10\% | 0.0052\% |
| CHESAPEAKE ENERGY CORP | CHK | \$ | 3,480.34 | N/A | 0.00\% | N/A | N/A | N/A |
| C.H. ROBINSON WORLDWIDE INC | CHRW | \$ | 12,186.96 | 0.06\% | 2.11\% | 6.00\% | 8.17\% | 0.0046\% |
| CHARTER COMMUNICATIONS INC-A | CHTR | \$ | 82,772.21 | 0.38\% | 0.00\% | 26.00\% | 26.00\% | 0.0987\% |
| CIGNA CORP | Cl | \$ | 50,424.20 | 0.23\% | 0.02\% | 12.00\% | 12.02\% | 0.0278\% |
| CINCINNATI FINANCIAL CORP | CINF | \$ | 12,080.24 | 0.06\% | 2.72\% | 6.50\% | 9.31\% | 0.0052\% |
| COLGATE-PALMOLIVE CO | CL | \$ | 65,559.32 | 0.30\% | 2.14\% | 11.00\% | 13.26\% | 0.0399\% |
| CLOROX COMPANY | CLX | \$ | 19,181.31 | 0.09\% | 2.26\% | 7.00\% | 9.34\% | 0.0082\% |
| COMERICA INC | CMA | \$ | 15,281.77 | 0.07\% | 1.37\% | 13.50\% | 14.96\% | 0.0105\% |
| COMCAST CORP-CLASS A | CMCSA | \$ | 190,736.60 | 0.87\% | 1.54\% | 11.00\% | 12.62\% | 0.1104\% |
| CME GROUP INC | CME | \$ | 51,166.13 | 0.23\% | 1.75\% | 8.50\% | 10.32\% | 0.0242\% |
| CHIPOTLE MEXICAN GRILL INC | CMG | \$ | 8,271.12 | 0.04\% | 0.00\% | 11.00\% | 11.00\% | 0.0042\% |
| CUMMINS INC | CMI | \$ | 29,098.36 | 0.13\% | 2.47\% | 8.00\% | 10.57\% | 0.0141\% |
| CMS ENERGY CORP | CMS | \$ | 13,308.42 | 0.06\% | 3.01\% | 6.50\% | 9.61\% | 0.0059\% |
| CENTENE CORP | CNC | \$ | 17,703.54 | 0.08\% | 0.00\% | 14.00\% | 14.00\% | 0.0114\% |
| CENTERPOINT ENERGY INC | CNP | \$ | 11,969.70 | 0.05\% | 4.00\% | 6.00\% | 10.12\% | 0.0056\% |
| CAPITAL ONE FINANCIAL CORP | COF | \$ | 48,209.48 | 0.22\% | 1.61\% | 4.00\% | 5.64\% | 0.0125\% |
| CABOT OIL \& GAS CORP | cog | \$ | 12,820.70 | N/A | 0.72\% | N/A | N/A | N/A |
| ROCKWELL COLLINS INC | COL | \$ | 21,988.24 | 0.10\% | 0.98\% | 14.00\% | 15.05\% | 0.0152\% |
| COOPER COS INC/THE | coo | \$ | 10,866.73 | 0.05\% | 0.03\% | 16.50\% | 16.53\% | 0.0082\% |
| CONOCOPHILLIPS | COP | \$ | 66,714.72 | 0.31\% | 1.93\% | 59.00\% | 61.50\% | 0.1881\% |
| COSTCO WHOLESALE CORP | COST | \$ | 82,039.75 | 0.38\% | 1.07\% | 10.00\% | 11.12\% | 0.0418\% |
| COTY INC-CL A | COTY | \$ | 14,800.65 | 0.07\% | 2.53\% | 8.50\% | 11.14\% | 0.0076\% |
| CAMPBELL SOUP CO | CPB | \$ | 15,720.41 | 0.07\% | 2.88\% | 4.00\% | 6.94\% | 0.0050\% |
| SALESFORCE.COM INC | CRM | \$ | 74,844.72 | N/A | 0.00\% | N/A | N/A | N/A |
| CISCO SYSTEMS INC | CSCO | \$ | 190,762.00 | 0.87\% | 3.01\% | 7.50\% | 10.62\% | 0.0929\% |
| CSRA INC | CSRA | \$ | 4,957.38 | N/A | 1.32\% | N/A | N/A | N/A |
| CSX CORP | CSX | \$ | 49,047.52 | 0.22\% | 1.46\% | 11.50\% | 13.04\% | 0.0293\% |
| CINTAS CORP | CTAS | \$ | 16,951.64 | 0.08\% | 1.02\% | 12.50\% | 13.58\% | 0.0106\% |
| CENTURYLINK INC | CTL | \$ | 9,602.46 | 0.04\% | 12.36\% | -1.50\% | 10.77\% | 0.0047\% |
| COGNIZANT TECH SOLUTIONS-A | CTSH | \$ | 42,716.00 | 0.20\% | 0.83\% | 12.50\% | 13.38\% | 0.0262\% |
| CITRIX SYSTEMS INC | CTXS | \$ | 13,276.44 | 0.06\% | 0.00\% | 5.50\% | 5.50\% | 0.0033\% |
| CVS HEALTH CORP | cVs | \$ | 75,610.32 | 0.35\% | 2.68\% | 9.00\% | 11.80\% | 0.0409\% |
| CHEVRON CORP | cVx | \$ | 237,079.90 | 1.09\% | 3.51\% | 15.00\% | 18.77\% | 0.2041\% |
| CONCHO RESOURCES INC | CXO | \$ | 22,279.72 | 0.10\% | 0.00\% | 24.50\% | 24.50\% | 0.0250\% |
| DOMINION ENERGY INC | D | \$ | 51,938.60 | 0.24\% | 4.12\% | 6.50\% | 10.75\% | 0.0256\% |
| DELTA AIR LINES INC | DAL | \$ | 39,947.88 | 0.18\% | 2.18\% | 10.50\% | 12.79\% | 0.0234\% |
| DEERE \& CO | DE | \$ | 50,077.35 | 0.23\% | 1.54\% | 8.00\% | 9.60\% | 0.0220\% |
| DISCOVER FINANCIAL SERVICES | DFS | \$ | 27,833.91 | 0.13\% | 1.84\% | 5.00\% | 6.89\% | 0.0088\% |
| DOLLAR GENERAL CORP | DG | \$ | 24,886.13 | 0.11\% | 1.14\% | 9.50\% | 10.69\% | 0.0122\% |
| QUEST DIAGNOSTICS INC | DGX | \$ | 13,484.40 | 0.06\% | 1.82\% | 9.50\% | 11.41\% | 0.0071\% |
| DR HORTON INC | DHI | \$ | 19,098.04 | 0.09\% | 0.98\% | 11.00\% | 12.03\% | 0.0105\% |
| DANAHER CORP | DHR | \$ | 65,251.82 | 0.30\% | 0.60\% | 9.00\% | 9.63\% | 0.0288\% |
| WALT DISNEY CO/THE | DIS | \$ | 175,312.00 | 0.80\% | 1.53\% | 8.50\% | 10.10\% | 0.0811\% |
| DISCOVERY COMMUNICATIONS-A | DISCA | \$ | 8,854.73 | 0.04\% | 0.00\% | 13.50\% | 13.50\% | 0.0055\% |
| DISH NETWORK CORP-A | DISH | \$ | 22,907.26 | 0.11\% | 0.00\% | 2.50\% | 2.50\% | 0.0026\% |
| DIGITAL REALTY TRUST INC | DLR | \$ | - | N/A | 3.65\% | N/A | N/A | N/A |
| DOLLAR TREE INC | DLTR | \$ | 25,717.91 | 0.12\% | 0.00\% | 17.00\% | 17.00\% | 0.0200\% |
| DOVER CORP | DOV | \$ | 15,713.08 | 0.07\% | 1.86\% | 8.00\% | 9.93\% | 0.0072\% |
| DR PEPPER SNAPPLE GROUP INC | DPS | \$ | 17,305.31 | 0.08\% | 2.48\% | 7.50\% | 10.07\% | 0.0080\% |
| DUKE REALTY CORP | DRE | \$ | - | 0.00\% | 2.99\% | 33.50\% | 36.99\% | 0.0000\% |
| DARDEN RESTAURANTS INC | DRI | \$ | 11,756.36 | 0.05\% | 2.65\% | 11.00\% | 13.80\% | 0.0074\% |
| DTE ENERGY COMPANY | DTE | \$ | 19,418.97 | 0.09\% | 3.32\% | 6.00\% | 9.42\% | 0.0084\% |
| DUKE ENERGY CORP | DUK | \$ | 59,010.00 | 0.27\% | 4.32\% | 4.50\% | 8.92\% | 0.0241\% |
| DAVITA INC | DVA | \$ | 13,605.78 | 0.06\% | 0.00\% | 10.00\% | 10.00\% | 0.0062\% |
| DEVON ENERGY CORP | DVN | \$ | 21,483.00 | 0.10\% | 0.59\% | 14.50\% | 15.13\% | 0.0149\% |
| DOWDUPONT INC | DWDP | \$ | 167,594.30 | N/A | 2.37\% | N/A | N/A | N/A |
| DXC TECHNOLOGY CO | DXC | \$ | 27,421.25 | 0.13\% | 0.75\% | 18.00\% | 18.82\% | 0.0237\% |
| ELECTRONIC ARTS INC | EA | \$ | 33,254.76 | 0.15\% | 0.00\% | 13.00\% | 13.00\% | 0.0198\% |
| EBAY INC | EBAY | \$ | 39,662.69 | 0.18\% | 0.00\% | 10.00\% | 10.00\% | 0.0182\% |
| ECOLAB INC | ECL | \$ | 38,572.91 | 0.18\% | 1.23\% | 8.50\% | 9.78\% | 0.0173\% |
| CONSOLIDATED EDISON INC | ED | \$ | 26,284.90 | 0.12\% | 3.35\% | 2.50\% | 5.89\% | 0.0071\% |
| EQUIFAX INC | EFX | \$ | 14,348.40 | 0.07\% | 1.31\% | 8.00\% | 9.36\% | 0.0062\% |
| EDISON INTERNATIONAL | EIX | \$ | 20,627.09 | 0.09\% | 3.82\% | 4.00\% | 7.90\% | 0.0075\% |
| ESTEE LAUDER COMPANIES-CL A | EL | \$ | 47,016.16 | 0.22\% | 1.19\% | 13.50\% | 14.77\% | 0.0318\% |
| EASTMAN CHEMICAL CO | EMN | \$ | 13,349.59 | 0.06\% | 2.41\% | 10.00\% | 12.53\% | 0.0077\% |
| EMERSON ELECTRIC CO | EMR | \$ | 44,648.93 | 0.20\% | 2.79\% | 12.00\% | 14.96\% | 0.0306\% |
| EOG RESOURCES INC | EOG | \$ | 61,531.03 | 0.28\% | 0.69\% | 29.00\% | 29.79\% | 0.0840\% |
| EQUINIX INC | EQIX | \$ | 34,883.76 | 0.16\% | 1.79\% | 23.00\% | 25.00\% | 0.0400\% |
| EQUITY RESIDENTIAL | EQR | \$ | - | N/A | 3.25\% | N/A | N/A | N/A |
| EQT CORP | EQT | \$ | 9,606.67 | 0.04\% | 0.22\% | 22.00\% | 22.24\% | 0.0098\% |
| EVERSOURCE ENERGY | ES | \$ | 19,640.60 | 0.09\% | 3.26\% | 6.50\% | 9.87\% | 0.0089\% |
| EXPRESS SCRIPTS HOLDING CO | ESRX | \$ | 42,174.15 | 0.19\% | 0.00\% | 14.50\% | 14.50\% | 0.0280\% |
| ESSEX PROPERTY TRUSTINC | ESS | \$ | - | N/A | 2.98\% | N/A | N/A | N/A |
| E*TRADE FINANCIAL CORP | ETFC | \$ | 13,523.57 | 0.06\% | 0.00\% | 15.50\% | 15.50\% | 0.0096\% |
| EATON CORP PLC | ETN | \$ | 34,410.86 | 0.16\% | 3.07\% | 7.00\% | 10.18\% | 0.0161\% |
| ENTERGY CORP | ETR | \$ | 14,391.63 | 0.07\% | 4.47\% | -2.50\% | 1.91\% | 0.0013\% |
| ENVISION HEALTHCARE CORP | EVHC | \$ | 4,173.09 | N/A | 0.00\% | N/A | N/A | N/A |
| EDWARDS LIFESCIENCES CORP | EW | \$ | 23,973.15 | 0.11\% | 0.00\% | 17.00\% | 17.00\% | 0.0187\% |
| EXELON CORP | EXC | \$ | 37,540.49 | 0.17\% | 3.43\% | 7.00\% | 10.55\% | 0.0182\% |
| EXPEDITORS INTL WASH INC | EXPD | \$ | 11,390.41 | 0.05\% | 1.31\% | 8.00\% | 9.36\% | 0.0049\% |
| EXPEDIA INC | EXPE | \$ | 18,280.90 | 0.08\% | 1.00\% | 19.00\% | 20.10\% | 0.0168\% |
| EXTRA SPACE STORAGE INC | EXR | \$ | - | N/A | 3.95\% | N/A | N/A | N/A |
| FORD MOTOR CO | F | \$ | 50,170.17 | 0.23\% | 4.75\% | 2.50\% | 7.31\% | 0.0168\% |
| FASTENAL CO | FAST | \$ | 15,550.29 | 0.07\% | 2.37\% | 5.50\% | 7.94\% | 0.0057\% |
| FACEBOOK INC-A | FB | \$ | 515,669.80 | 2.36\% | 0.00\% | 31.50\% | 31.50\% | 0.7448\% |
| FORTUNE BRANDS HOME \& SECURI | FBHS | \$ | 10,522.85 | 0.05\% | 1.15\% | 12.00\% | 13.22\% | 0.0064\% |
| FREEPORT-MCMORAN INC | FCX | \$ | 26,324.64 | N/A | 0.00\% | N/A | N/A | N/A |
| FEDEX CORP | FDX | \$ | 67,018.05 | 0.31\% | 0.80\% | 11.00\% | 11.84\% | 0.0364\% |


| FIRSTENERGY CORP | FE | \$ | 13,730.57 | 0.06\% | 4.71\% | 12.00\% | 16.99\% | 0.0107\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F5 NETWORKS INC | FFIV | \$ | 8,284.94 | 0.04\% | 0.00\% | 11.00\% | 11.00\% | 0.0042\% |
| FIDELITY NATIONAL INFO SERV | FIS | \$ | 31,588.38 | 0.14\% | 1.22\% | 7.50\% | 8.77\% | 0.0127\% |
| FISERV INC | FISV | \$ | 27,275.54 | 0.13\% | 0.00\% | 9.00\% | 9.00\% | 0.0113\% |
| FIFTH THIRD BANCORP | FITB | \$ | 21,820.31 | 0.10\% | 2.10\% | 4.50\% | 6.65\% | 0.0067\% |
| FOOT LOCKER INC | FL | \$ | 6,397.46 | 0.03\% | 2.58\% | 6.50\% | 9.16\% | 0.0027\% |
| FLIR SYSTEMS INC | FLIR | \$ | 6,556.67 | 0.03\% | 1.52\% | 7.50\% | 9.08\% | 0.0027\% |
| FLUOR CORP | FLR | \$ | 7,171.38 | 0.03\% | 1.64\% | 2.00\% | 3.66\% | 0.0012\% |
| FLOWSERVE CORP | FLS | \$ | 5,418.76 | 0.02\% | 1.83\% | 2.50\% | 4.35\% | 0.0011\% |
| FMC CORP | FMC | \$ | 12,773.69 | 0.06\% | 0.73\% | 8.00\% | 8.76\% | 0.0051\% |
| TWENTY-FIRST CENTURY FOX-A | FOXA | \$ | 65,042.33 | 0.30\% | 1.03\% | 11.50\% | 12.59\% | 0.0375\% |
| FEDERAL REALTY INVS TRUST | FRT | \$ | - | N/A | 3.09\% | N/A | N/A | N/A |
| TECHNIPFMC PLC | FTI |  | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| FORTIVE CORP | FTV | \$ | 25,298.00 | N/A | 0.39\% | N/A | N/A | N/A |
| GENERAL DYNAMICS CORP | GD | \$ | 60,457.09 | 0.28\% | 1.66\% | 5.50\% | 7.21\% | 0.0200\% |
| GENERAL ELECTRIC CO | GE | \$ | 151,501.30 | 0.69\% | 2.75\% | 13.50\% | 16.44\% | 0.1142\% |
| GGP INC | GGP | \$ | - | N/A | 4.16\% | N/A | N/A | N/A |
| GILEAD SCIENCES INC | GILD | \$ | 95,437.15 | 0.44\% | 2.85\% | -1.00\% | 1.84\% | 0.0080\% |
| GENERAL MILLS INC | GIS | \$ | 44,921.34 | 0.21\% | 3.33\% | 3.50\% | 6.89\% | 0.0142\% |
| CORNING INC | GLW | \$ | 28,068.70 | 0.13\% | 1.92\% | 11.50\% | 13.53\% | 0.0174\% |
| GENERAL MOTORS CO | GM | \$ | 59,024.00 | 0.27\% | 3.61\% | 5.50\% | 9.21\% | 0.0249\% |
| ALPHABET INC-CL A | GOOGL |  | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| GENUINE PARTS CO | GPC | \$ | 13,859.33 | 0.06\% | 2.86\% | 7.50\% | 10.47\% | 0.0067\% |
| GLOBAL PAYMENTS INC | GPN | \$ | 15,935.04 | 0.07\% | 0.04\% | 12.00\% | 12.04\% | 0.0088\% |
| GAP INC/THE | GPS | \$ | 13,401.05 | 0.06\% | 2.67\% | 0.50\% | 3.18\% | 0.0020\% |
| GARMIN LTD | GRMN | \$ | 11,094.38 | 0.05\% | 3.52\% | 5.50\% | 9.12\% | 0.0046\% |
| GOLDMAN SACHS GROUP INC | GS | \$ | 98,948.38 | 0.45\% | 1.15\% | 9.50\% | 10.70\% | 0.0486\% |
| GOODYEAR TIRE \& RUBBER CO | GT | \$ | 8,012.22 | 0.04\% | 1.75\% | 10.00\% | 11.84\% | 0.0043\% |
| WW GRAINGER INC | GWW | \$ | 13,392.14 | 0.06\% | 2.18\% | 4.50\% | 6.73\% | 0.0041\% |
| HALLIBURTON CO | HAL | \$ | 42,004.24 | 0.19\% | 1.50\% | 21.50\% | 23.16\% | 0.0446\% |
| HASBRO INC | HAS | \$ | 11,563.69 | 0.05\% | 2.46\% | 10.50\% | 13.09\% | 0.0069\% |
| HUNTINGTON BANCSHARES INC | HBAN | \$ | 16,041.24 | 0.07\% | 3.03\% | 10.00\% | 13.18\% | 0.0097\% |
| HANESBRANDS INC | HBI | \$ | 7,360.71 | 0.03\% | 3.17\% | 9.00\% | 12.31\% | 0.0042\% |
| HCA HEALTHCARE INC | HCA | \$ | 31,357.12 | 0.14\% | 0.00\% | 10.00\% | 10.00\% | 0.0144\% |
| WELLTOWER INC | HCN | \$ | - | N/A | 5.62\% | N/A | N/A | N/A |
| HCP INC | HCP | \$ | - | N/A | 5.90\% | N/A | N/A | N/A |
| HOME DEPOT INC | HD | \$ | 219,677.40 | 1.01\% | 2.21\% | 11.00\% | 13.33\% | 0.1343\% |
| HESS CORP | HES | \$ | 14,724.72 | N/A | 2.16\% | N/A | N/A | N/A |
| HARTFORD FINANCIAL SVCS GRP | HIG | \$ | 19,997.21 | 0.09\% | 1.79\% | 12.50\% | 14.40\% | 0.0132\% |
| HILTON WORLDWIDE HOLDINGS IN | HLT | \$ | 25,471.42 | 0.12\% | 0.76\% | 7.00\% | 7.79\% | 0.0091\% |
| HARLEY-DAVIDSON INC | HOG | \$ | 8,719.36 | 0.04\% | 2.82\% | 8.00\% | 10.93\% | 0.0044\% |
| HOLOGIC INC | HOLX | \$ | 12,119.86 | 0.06\% | 0.00\% | 27.00\% | 27.00\% | 0.0150\% |
| HONEYWELL INTERNATIONAL INC | HON | \$ | 117,107.40 | 0.54\% | 1.94\% | 8.50\% | 10.52\% | 0.0565\% |
| HELMERICH \& PAYNE | HP | \$ | 6,909.07 | 0.03\% | 4.40\% | 4.50\% | 9.00\% | 0.0029\% |
| HEWLETT PACKARD ENTERPRISE | HPE | \$ | 23,480.77 | 0.11\% | 2.04\% | 3.50\% | 5.58\% | 0.0060\% |
| HP INC | HPQ | \$ | 35,053.57 | 0.16\% | 2.64\% | 4.50\% | 7.20\% | 0.0116\% |
| H\&R BLOCK INC | HRB | \$ | 5,582.12 | 0.03\% | 3.60\% | 8.00\% | 11.74\% | 0.0030\% |
| HORMEL FOODS CORP | HRL | \$ | 19,215.02 | 0.09\% | 2.06\% | 10.50\% | 12.67\% | 0.0112\% |
| HARRIS CORP | HRS | \$ | 16,998.58 | 0.08\% | 1.60\% | 10.50\% | 12.18\% | 0.0095\% |
| HENRY SCHEIN INC | HSIC | \$ | 11,168.78 | 0.05\% | 0.00\% | 10.50\% | 10.50\% | 0.0054\% |
| HOST HOTELS \& RESORTS INC | HST | \$ |  | N/A | 4.09\% | N/A | N/A | N/A |
| HERSHEY CO/THE | HSY | \$ | 24,155.31 | 0.11\% | 2.29\% | 6.50\% | 8.86\% | 0.0098\% |
| HUMANA INC | HUM | \$ | 34,797.84 | 0.16\% | 0.66\% | 10.50\% | 11.19\% | 0.0179\% |
| INTL BUSINESS MACHINES CORP | IBM | \$ | 140,257.30 | N/A | 4.16\% | N/A | N/A | N/A |
| INTERCONTINENTAL EXCHANGE IN | ICE | \$ | 41,084.46 | 0.19\% | 1.14\% | 12.00\% | 13.21\% | 0.0249\% |
| IDEXX LABORATORIES INC | IDXX | \$ | 13,730.70 | 0.06\% | 0.00\% | 15.00\% | 15.00\% | 0.0094\% |
| INTL FLAVORS \& FRAGRANCES | IFF | \$ | 11,993.45 | 0.05\% | 1.86\% | 7.50\% | 9.43\% | 0.0052\% |
| ILLUMINA INC | ILMN | \$ | 31,327.22 | 0.14\% | 0.00\% | 17.00\% | 17.00\% | 0.0244\% |
| INCYTE CORP | INCY | \$ | 20,333.79 | 0.09\% | 0.00\% | 70.50\% | 70.50\% | 0.0657\% |
| IHS MARKIT LTD | INFO | \$ | 17,966.46 | 0.08\% | 0.00\% | 14.50\% | 14.50\% | 0.0119\% |
| INTEL CORP | INTC | \$ | 218,836.80 | 1.00\% | 2.33\% | 7.50\% | 9.92\% | 0.0995\% |
| INTUIT INC | INTU | \$ | 40,553.90 | 0.19\% | 0.98\% | 14.50\% | 15.55\% | 0.0289\% |
| INTERNATIONAL PAPER CO | IP | \$ | 23,733.49 | 0.11\% | 3.31\% | 18.50\% | 22.12\% | 0.0241\% |
| INTERPUBLIC GROUP OF COS INC | IPG | \$ | 8,079.86 | 0.04\% | 3.56\% | 10.00\% | 13.74\% | 0.0051\% |
| IQVIA HOLDINGS INC | IQV | \$ | 21,160.88 | 0.10\% | 0.00\% | 12.50\% | 12.50\% | 0.0121\% |
| INGERSOLL-RAND PLC | IR | \$ | 22,640.19 | 0.10\% | 1.99\% | 11.00\% | 13.10\% | 0.0136\% |
| IRON MOUNTAIN INC | IRM | \$ | 9,914.67 | 0.05\% | 6.33\% | 11.00\% | 17.68\% | 0.0080\% |
| INTUITIVE SURGICAL INC | ISRG | \$ | 40,468.96 | 0.19\% | 0.00\% | 15.50\% | 15.50\% | 0.0288\% |
| GARTNER INC | IT | \$ | 11,151.27 | 0.05\% | 0.00\% | 16.00\% | 16.00\% | 0.0082\% |
| ILLINOIS TOOL WORKS | ITW | \$ | 57,645.88 | 0.26\% | 1.85\% | 10.50\% | 12.45\% | 0.0329\% |
| INVESCO LTD | IVZ | \$ | 14,903.93 | 0.07\% | 3.17\% | 5.50\% | 8.76\% | 0.0060\% |
| HUNT (JB) TRANSPRT SVCS INC | JBHT | \$ | 12,371.25 | 0.06\% | 0.84\% | 9.00\% | 9.88\% | 0.0056\% |
| JOHNSON CONTROLS INTERNATION | JCI | \$ | 35,431.16 | 0.16\% | 2.74\% | -0.50\% | 2.23\% | 0.0036\% |
| JACOBS ENGINEERING GROUP INC | JEC | \$ | 7,995.35 | 0.04\% | 0.90\% | 8.00\% | 8.94\% | 0.0033\% |
| JOHNSON \& JOHNSON | JNJ | \$ | 378,743.60 | 1.74\% | 2.47\% | 9.50\% | 12.09\% | 0.2099\% |
| JUNIPER NETWORKS INC | JNPR | \$ | 10,818.10 | 0.05\% | 1.40\% | 7.00\% | 8.45\% | 0.0042\% |
| JPMORGAN CHASE \& CO | JPM | \$ | 374,140.60 | 1.72\% | 2.11\% | 6.50\% | 8.68\% | 0.1489\% |
| NORDSTROM INC | JWN | \$ | 7,913.50 | 0.04\% | 3.12\% | 2.00\% | 5.15\% | 0.0019\% |
| KELLOGG CO | K | \$ | 23,339.25 | 0.11\% | 3.22\% | 7.00\% | 10.33\% | 0.0111\% |
| KEYCORP | KEY | \$ | 22,044.77 | 0.10\% | 2.20\% | 11.00\% | 13.32\% | 0.0135\% |
| KRAFT HEINZ CO/THE | KHC | \$ | 94,857.84 | N/A | 3.25\% | N/A | N/A | N/A |
| KIMCO REALTY CORP | KIM | \$ | - | N/A | 6.35\% | N/A | N/A | N/A |
| KLA-TENCOR CORP | KLAC | \$ | 17,021.62 | 0.08\% | 2.17\% | 16.00\% | 18.34\% | 0.0143\% |
| KIMBERLY-CLARK CORP | KMB | \$ | 42,309.33 | 0.19\% | 3.23\% | 10.50\% | 13.90\% | 0.0270\% |
| KINDER MORGAN INC | KMI | \$ | 40,316.84 | 0.18\% | 2.77\% | 24.00\% | 27.10\% | 0.0501\% |
| CARMAX INC | KMX | \$ | 12,005.66 | 0.06\% | 0.00\% | 10.00\% | 10.00\% | 0.0055\% |
| COCA-COLA CO/THE | KO | \$ | 194,347.20 | 0.89\% | 3.38\% | 4.50\% | 7.96\% | 0.0709\% |
| MICHAEL KORS HOLDINGS LTD | KORS | \$ | 9,736.85 | 0.04\% | 0.00\% | 3.00\% | 3.00\% | 0.0013\% |
| KROGER CO | KR | \$ | 24,271.55 | 0.11\% | 1.89\% | 3.50\% | 5.42\% | 0.0060\% |
| KOHLS CORP | KSS | \$ | 8,982.96 | 0.04\% | 4.40\% | 7.00\% | 11.55\% | 0.0048\% |
| KANSAS CITY SOUTHERN | KSU | \$ | 11,263.35 | 0.05\% | 1.33\% | 9.50\% | 10.89\% | 0.0056\% |
| LOEWS CORP | L | \$ | 16,760.76 | 0.08\% | 0.50\% | 15.00\% | 15.54\% | 0.0119\% |
| L BRANDS INC | LB | \$ | 17,086.38 | 0.08\% | 3.96\% | 0.50\% | 4.47\% | 0.0035\% |
| LEGGETT \& PLATT INC | LEG | \$ | 6,246.81 | 0.03\% | 3.04\% | 7.50\% | 10.65\% | 0.0031\% |
| LENNAR CORP-A | LEN | \$ | 15,298.02 | 0.07\% | 0.25\% | 10.50\% | 10.76\% | 0.0075\% |
| LABORATORY CRP OF AMER HLDGS | LH | \$ | 16,476.90 | 0.08\% | 0.00\% | 9.00\% | 9.00\% | 0.0068\% |
| LKQ CORP | LKQ | \$ | 12,638.84 | 0.06\% | 0.00\% | 11.50\% | 11.50\% | 0.0067\% |
| L3 TECHNOLOGIES INC | LLL | \$ | 15,246.68 | 0.07\% | 1.54\% | 10.00\% | 11.62\% | 0.0081\% |
| ELI LILLY \& CO | LLY | \$ | 94,264.74 | 0.43\% | 2.63\% | 11.00\% | 13.77\% | 0.0595\% |


| LOCKHEED MARTIN CORP | LMT | \$ | 90,949.16 | 0.42\% | 2.59\% | 10.00\% | 12.72\% | 0.0530\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LINCOLN NATIONAL CORP | LNC | \$ | 17,111.34 | 0.08\% | 1.69\% | 7.00\% | 8.75\% | 0.0069\% |
| ALLIANT ENERGY CORP | LNT | \$ | 9,784.55 | 0.04\% | 2.98\% | 6.00\% | 9.07\% | 0.0041\% |
| LOWE'S COS INC | LOW | \$ | 75,396.63 | 0.35\% | 1.92\% | 13.50\% | 15.55\% | 0.0538\% |
| LAM RESEARCH CORP | LRCX | \$ | 30,100.41 | 0.14\% | 1.05\% | 20.00\% | 21.16\% | 0.0292\% |
| LEUCADIA NATIONAL CORP | LUK | \$ | 9,424.79 | 0.04\% | 1.51\% | 30.00\% | 31.74\% | 0.0137\% |
| SOUTHWEST AIRLINES CO | LUV | \$ | 39,181.41 | 0.18\% | 0.76\% | 10.50\% | 11.30\% | 0.0203\% |
| LYONDELLBASELL INDU-CL A | LYB | \$ | 43,500.83 | 0.20\% | 3.26\% | 4.00\% | 7.33\% | 0.0146\% |
| MACY'S INC | M | \$ | 7,787.75 | 0.04\% | 5.91\% | 2.00\% | 7.97\% | 0.0028\% |
| MASTERCARD INC - A | MA | \$ | 159,561.80 | 0.73\% | 0.66\% | 13.00\% | 13.70\% | 0.1003\% |
| MID-AMERICA APARTMENT COMM | MAA |  | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| MACERICH CO/THE | MAC | \$ | - | N/A | 4.60\% | N/A | N/A | N/A |
| MARRIOTT INTERNATIONAL -CL A | MAR | \$ | 48,835.63 | 0.22\% | 0.99\% | 15.00\% | 16.06\% | 0.0360\% |
| MASCO CORP | MAS | \$ | 13,780.76 | 0.06\% | 1.00\% | 14.00\% | 15.07\% | 0.0095\% |
| MATTEL INC | MAT | \$ | 5,399.53 | 0.02\% | 0.00\% | 4.50\% | 4.50\% | 0.0011\% |
| MCDONALD'S CORP | MCD | \$ | 136,998.80 | 0.63\% | 2.35\% | 9.50\% | 11.96\% | 0.0751\% |
| MICROCHIP TECHNOLOGY INC | MCHP | \$ | 20,919.95 | 0.10\% | 1.63\% | 14.50\% | 16.25\% | 0.0156\% |
| MCKESSON CORP | MCK | \$ | 33,228.68 | 0.15\% | 0.85\% | 11.00\% | 11.90\% | 0.0181\% |
| MOODY'S CORP | MCO | \$ | 28,180.63 | 0.13\% | 1.03\% | 9.50\% | 10.58\% | 0.0137\% |
| MONDELEZ INTERNATIONAL INC-A | MDLZ | \$ | 64,450.83 | 0.30\% | 2.09\% | 10.00\% | 12.19\% | 0.0360\% |
| MEDTRONIC PLC | MDT | \$ | 110,290.70 | 0.51\% | 2.31\% | 6.00\% | 8.38\% | 0.0424\% |
| METLIFE INC | MET | \$ | 53,800.27 | 0.25\% | 3.31\% | 7.00\% | 10.43\% | 0.0257\% |
| MGM RESORTS INTERNATIONAL | MGM | \$ | 19,074.12 | 0.09\% | 1.30\% | 41.50\% | 43.07\% | 0.0377\% |
| MOHAWK INDUSTRIES INC | MHK | \$ | 20,655.56 | 0.09\% | 0.00\% | 8.50\% | 8.50\% | 0.0081\% |
| MCCORMICK \& CO-NON VTG SHRS | MKC | \$ | 13,250.45 | 0.06\% | 2.06\% | 9.00\% | 11.15\% | 0.0068\% |
| MARTIN MARIETTA MATERIALS | MLM | \$ | 13,231.19 | 0.06\% | 0.84\% | 17.50\% | 18.41\% | 0.0112\% |
| MARSH \& MCLENNAN COS | MMC | \$ | 41,255.48 | 0.19\% | 1.86\% | 10.00\% | 11.95\% | 0.0226\% |
| 3M CO | MMM | \$ | 139,836.80 | 0.64\% | 2.00\% | 8.00\% | 10.08\% | 0.0646\% |
| MONSTER BEVERAGE CORP | MNST | \$ | 35,986.22 | 0.16\% | 0.00\% | 12.00\% | 12.00\% | 0.0198\% |
| ALTRIA GROUP INC | MO | \$ | 137,378.10 | 0.63\% | 3.67\% | 10.00\% | 13.85\% | 0.0873\% |
| MONSANTO CO | MON | \$ | 50,719.04 | 0.23\% | 1.87\% | 6.00\% | 7.93\% | 0.0184\% |
| MOSAIC CO/THE | MOS | \$ | 8,860.50 | 0.04\% | 0.40\% | 3.00\% | 3.41\% | 0.0014\% |
| MARATHON PETROLEUM CORP | MPC | \$ | 33,032.34 | 0.15\% | 2.53\% | 6.50\% | 9.11\% | 0.0138\% |
| MERCK \& CO. INC. | MRK | \$ | 154,314.50 | 0.71\% | 3.39\% | 5.50\% | 8.98\% | 0.0636\% |
| MARATHON OIL CORP | MRO | \$ | 14,492.50 | N/A | 1.17\% | N/A | N/A | N/A |
| MORGAN STANLEY | MS | \$ | 95,843.52 | 0.44\% | 1.89\% | 10.50\% | 12.49\% | 0.0549\% |
| MICROSOFT CORP | MSFT | \$ | 660,060.00 | 3.03\% | 1.97\% | 8.50\% | 10.55\% | 0.3194\% |
| MOTOROLA SOLUTIONS INC | MSI | \$ | 14,842.44 | 0.07\% | 2.27\% | 10.50\% | 12.89\% | 0.0088\% |
| M \& T BANK CORP | мTB | \$ | 26,479.24 | 0.12\% | 1.73\% | 8.00\% | 9.80\% | 0.0119\% |
| METTLER-TOLEDO INTERNATIONAL | MTD | \$ | 15,818.82 | 0.07\% | 0.00\% | 11.00\% | 11.00\% | 0.0080\% |
| MICRON TECHNOLOGY INC | MU | \$ | 51,438.36 | 0.24\% | 0.00\% | 31.00\% | 31.00\% | 0.0731\% |
| MYLAN NV | MYL | \$ | 22,505.25 | 0.10\% | 0.00\% | 10.00\% | 10.00\% | 0.0103\% |
| NAVIENT CORP | NAVI | \$ | 3,450.72 | 0.02\% | 4.88\% | 6.00\% | 11.03\% | 0.0017\% |
| NOBLE ENERGY INC | NBL | \$ | 14,063.00 | N/A | 1.39\% | N/A | N/A | N/A |
| NORWEGIAN CRUISE LINE HOLDIN | NCLH | \$ | 12,368.77 | 0.06\% | 0.00\% | 21.50\% | 21.50\% | 0.0122\% |
| NASDAQ INC | NDAQ | \$ | 12,561.26 | 0.06\% | 2.02\% | 9.50\% | 11.62\% | 0.0067\% |
| NEXTERA ENERGY INC | NEE | \$ | 72,667.09 | 0.33\% | 2.79\% | 7.00\% | 9.89\% | 0.0329\% |
| NEWMONT MINING CORP | NEM | \$ | 19,589.43 | 0.09\% | 0.82\% | 9.00\% | 9.86\% | 0.0089\% |
| NETFLIX INC | NFLX | \$ | 81,621.72 | 0.37\% | 0.00\% | 44.50\% | 44.50\% | 0.1665\% |
| NEWFIELD EXPLORATION CO | NFX | \$ | 6,189.91 | 0.03\% | 0.00\% | 18.00\% | 18.00\% | 0.0051\% |
| NISOURCE INC | NI | \$ | 8,302.80 | 0.04\% | 2.84\% | 5.50\% | 8.42\% | 0.0032\% |
| NIKE INC -CL B | NKE | \$ | 105,673.40 | 0.48\% | 1.24\% | 14.00\% | 15.33\% | 0.0743\% |
| NIELSEN HOLDINGS PLC | NLSN | \$ | 12,982.32 | 0.06\% | 3.73\% | 2.50\% | 6.28\% | 0.0037\% |
| NORTHROP GRUMMAN CORP | NOC | \$ | 53,005.01 | 0.24\% | 1.31\% | 8.00\% | 9.36\% | 0.0228\% |
| NATIONAL OILWELL VARCO INC | NOV | \$ | 13,510.88 | 0.06\% | 0.56\% | 3.00\% | 3.57\% | 0.0022\% |
| NRG ENERGY INC | NRG | \$ | 8,694.91 | N/A | 0.44\% | N/A | N/A | N/A |
| NORFOLK SOUTHERN CORP | NSC | \$ | 41,285.58 | 0.19\% | 1.69\% | 8.00\% | 9.76\% | 0.0185\% |
| NETAPP INC | NTAP | \$ | 15,008.07 | 0.07\% | 1.42\% | 16.00\% | 17.53\% | 0.0121\% |
| NORTHERN TRUST CORP | NTRS | \$ | 22,753.47 | 0.10\% | 1.68\% | 9.50\% | 11.26\% | 0.0117\% |
| NUCOR CORP | NUE | \$ | 20,515.18 | 0.09\% | 2.36\% | 20.50\% | 23.10\% | 0.0217\% |
| NVIDIA CORP | NVDA | \$ | 118,709.40 | 0.54\% | 0.31\% | 23.50\% | 23.85\% | 0.1298\% |
| NEWELL BRANDS INC | NWL | \$ | 15,070.58 | 0.07\% | 2.99\% | 24.50\% | 27.86\% | 0.0192\% |
| NEWS CORP - CLASS A | NWSA | \$ | 9,519.80 | N/A | 1.22\% | N/A | N/A | N/A |
| REALTY INCOME CORP | O | \$ |  | N/A | 4.76\% | N/A | N/A | N/A |
| ONEOK INC | OKE | \$ | 19,910.70 | 0.09\% | 5.71\% | 18.50\% | 24.74\% | 0.0226\% |
| OMNICOM GROUP | OMC | \$ | 17,077.88 | 0.08\% | 3.11\% | 7.50\% | 10.73\% | 0.0084\% |
| ORACLE CORP | ORCL | \$ | 195,881.00 | 0.90\% | 1.61\% | 8.00\% | 9.67\% | 0.0869\% |
| O'REILLY AUTOMOTIVE INC | ORLY | \$ | 20,609.13 | 0.09\% | 0.00\% | 11.00\% | 11.00\% | 0.0104\% |
| OCCIDENTAL PETROLEUM CORP | OXY | \$ | 55,541.48 | 0.25\% | 4.27\% | 25.00\% | 29.80\% | 0.0759\% |
| PAYCHEX INC | PAYX | \$ | 24,634.90 | 0.11\% | 3.00\% | 8.50\% | 11.63\% | 0.0131\% |
| PEOPLE'S UNITED FINANCIAL | PBCT | \$ | 6,554.29 | 0.03\% | 3.63\% | 10.50\% | 14.32\% | 0.0043\% |
| PACCAR INC | PCAR | \$ | 25,037.34 | 0.11\% | 2.53\% | 6.50\% | 9.11\% | 0.0105\% |
| P G \& E CORP | PCG | \$ | 22,862.90 | 0.10\% | 0.00\% | 9.50\% | 9.50\% | 0.0100\% |
| PRICELINE GROUP INC/THE | PCLN | \$ | 86,719.57 | 0.40\% | 0.00\% | 15.00\% | 15.00\% | 0.0596\% |
| PATTERSON COS INC | PDCO | \$ | 3,443.06 | 0.02\% | 3.03\% | 13.00\% | 16.23\% | 0.0026\% |
| PUBLIC SERVICE ENTERPRISE GP | PEG | \$ | 25,760.05 | 0.12\% | 3.49\% | 1.00\% | 4.51\% | 0.0053\% |
| PEPSICO INC | PEP | \$ | 168,284.00 | 0.77\% | 2.77\% | 7.50\% | 10.37\% | 0.0800\% |
| PFIZER INC | PFE | \$ | 216,016.00 | 0.99\% | 3.75\% | 11.00\% | 14.96\% | 0.1481\% |
| PRINCIPAL FINANCIAL GROUP | PFG | \$ | 20,552.74 | 0.09\% | 2.75\% | 4.50\% | 7.31\% | 0.0069\% |
| PROCTER \& GAMBLE CO/THE | PG | \$ | 232,562.90 | 1.07\% | 3.01\% | 10.00\% | 13.16\% | 0.1403\% |
| PROGRESSIVE CORP | PGR | \$ | 32,453.28 | 0.15\% | 1.72\% | 8.00\% | 9.79\% | 0.0146\% |
| PARKER HANNIFIN CORP | PH | \$ | 26,603.90 | 0.12\% | 1.32\% | 7.50\% | 8.87\% | 0.0108\% |
| PULTEGROUP INC | PHM | \$ | 9,926.22 | 0.05\% | 1.18\% | 17.00\% | 18.28\% | 0.0083\% |
| PACKAGING CORP OF AMERICA | PKG | \$ | 11,356.32 | 0.05\% | 2.10\% | 8.50\% | 10.69\% | 0.0056\% |
| PERKINELMER INC | PKI | \$ | 8,075.97 | 0.04\% | 0.38\% | 8.00\% | 8.40\% | 0.0031\% |
| PROLOGIS INC | PLD | \$ | - | N/A | 2.79\% | N/A | N/A | N/A |
| PHILIP MORRIS INTERNATIONAL | PM | \$ | 162,743.80 | 0.75\% | 4.09\% | 7.50\% | 11.74\% | 0.0876\% |
| PNC FINANCIAL SERVICES GROUP | PNC | \$ | 69,619.77 | 0.32\% | 2.05\% | 5.50\% | 7.61\% | 0.0243\% |
| PENTAIR PLC | PNR | \$ | 12,742.66 | 0.06\% | 2.00\% | 11.50\% | 13.62\% | 0.0080\% |
| PINNACLE WEST CAPITAL | PNW | \$ | 9,514.29 | 0.04\% | 3.26\% | 5.50\% | 8.85\% | 0.0039\% |
| PPG INDUSTRIES INC | PPG | \$ | 29,565.02 | 0.14\% | 1.55\% | 10.50\% | 12.13\% | 0.0164\% |
| PPL CORP | PPL | \$ | 21,462.87 | 0.10\% | 5.26\% | 1.50\% | 6.80\% | 0.0067\% |
| PERRIGO CO PLC | PRGO | \$ | 12,274.94 | 0.06\% | 0.79\% | -0.50\% | 0.29\% | 0.0002\% |
| PRUDENTIAL FINANCIAL INC | PRU | \$ | 49,583.33 | 0.23\% | 2.57\% | 5.50\% | 8.14\% | 0.0185\% |
| PUBLIC STORAGE | PSA | \$ | - | N/A | 4.15\% | N/A | N/A | N/A |
| PHILLIPS 66 | PSX | \$ | 50,714.54 | 0.23\% | 3.01\% | 5.00\% | 8.09\% | 0.0188\% |
| PVH CORP | PVH | \$ | 10,452.82 | 0.05\% | 0.11\% | 7.50\% | 7.61\% | 0.0036\% |
| QUANTA SERVICES INC | PWR | \$ | 5,957.56 | 0.03\% | 0.00\% | 17.00\% | 17.00\% | 0.0046\% |
| PRAXAIR INC | PX | \$ | 44,119.60 | 0.20\% | 2.18\% | 8.00\% | 10.27\% | 0.0208\% |


| PIONEER NATURAL RESOURCES CO | PXD | \$ | 28,727.26 | 0.13\% | 0.05\% | 37.50\% | 37.56\% | 0.0495\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PAYPAL HOLDINGS INC | PYPL | \$ | 88,972.05 | N/A | 0.00\% | N/A | N/A | N/A |
| QUALCOMM INC | QCOM | \$ | 94,910.86 | 0.44\% | 3.73\% | 5.00\% | 8.82\% | 0.0384\% |
| QORVO INC | QRVO | \$ | 8,579.20 | 0.04\% | 0.00\% | 26.50\% | 26.50\% | 0.0104\% |
| ROYAL CARIBBEAN CRUISES LTD | RCL | \$ | 26,063.63 | 0.12\% | 1.97\% | 12.50\% | 14.59\% | 0.0174\% |
| EVEREST RE GROUP LTD | RE | \$ | 8,970.89 | 0.04\% | 2.46\% | 3.50\% | 6.00\% | 0.0025\% |
| REGENCY CENTERS CORP | REG |  | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| REGENERON PHARMACEUTICALS | REGN | \$ | 41,969.22 | 0.19\% | 0.00\% | 23.00\% | 23.00\% | 0.0443\% |
| REGIONS FINANCIAL CORP | RF | \$ | 20,373.75 | 0.09\% | 2.23\% | 9.50\% | 11.84\% | 0.0111\% |
| ROBERT HALF INTL INC | RHI | \$ | 7,003.14 | 0.03\% | 1.83\% | 4.50\% | 6.37\% | 0.0020\% |
| RED HAT INC | RHT | \$ | 21,786.99 | 0.10\% | 0.00\% | 19.50\% | 19.50\% | 0.0195\% |
| RAYMOND JAMES FINANCIAL INC | RJF | \$ | 12,997.12 | 0.06\% | 1.11\% | 11.50\% | 12.67\% | 0.0076\% |
| RALPH LAUREN CORP | RL | \$ | 8,204.80 | 0.04\% | 1.98\% | 1.50\% | 3.49\% | 0.0013\% |
| RESMED INC | RMD | \$ | 12,089.59 | 0.06\% | 1.65\% | 10.00\% | 11.73\% | 0.0065\% |
| ROCKWELL AUTOMATION INC | ROK | \$ | 24,927.58 | 0.11\% | 1.72\% | 6.00\% | 7.77\% | 0.0089\% |
| ROPER TECHNOLOGIES INC | ROP | \$ | 26,448.29 | 0.12\% | 0.64\% | 7.50\% | 8.16\% | 0.0099\% |
| ROSS STORES INC | ROST | \$ | 30,625.18 | 0.14\% | 0.86\% | 9.00\% | 9.90\% | 0.0139\% |
| RANGE RESOURCES CORP | RRC | \$ | 4,094.03 | 0.02\% | 0.49\% | 23.50\% | 24.05\% | 0.0045\% |
| REPUBLIC SERVICES INC | RSG | \$ | 22,391.30 | 0.10\% | 2.11\% | 8.50\% | 10.70\% | 0.0110\% |
| RAYTHEON COMPANY | RTN | \$ | 53,996.76 | 0.25\% | 1.71\% | 8.00\% | 9.78\% | 0.0242\% |
| SBA COMMUNICATIONS CORP | SBAC | \$ | 18,692.68 | 0.09\% | 0.00\% | 87.50\% | 87.50\% | 0.0750\% |
| STARBUCKS CORP | SBUX | \$ | 83,243.41 | 0.38\% | 2.17\% | 15.00\% | 17.33\% | 0.0662\% |
| SCANA CORP | SCG | \$ | 5,346.77 | 0.02\% | 6.55\% | 3.50\% | 10.16\% | 0.0025\% |
| SCHWAB (CHARLES) CORP | SCHW | \$ | 70,056.77 | 0.32\% | 0.67\% | 14.00\% | 14.72\% | 0.0473\% |
| SEALED AIR CORP | SEE | \$ | 8,785.19 | 0.04\% | 1.31\% | 12.00\% | 13.39\% | 0.0054\% |
| SHERWIN-WILLIAMS CO/THE | SHW | \$ | 38,483.82 | 0.18\% | 0.85\% | 14.50\% | 15.41\% | 0.0272\% |
| SIGNET JEWELERS LTD | SIG | \$ | 3,367.30 | 0.02\% | 2.37\% | 2.00\% | 4.39\% | 0.0007\% |
| JM Smucker Colthe | SJM | \$ | 14,076.18 | 0.06\% | 2.53\% | 6.00\% | 8.61\% | 0.0056\% |
| SCHLUMBERGER LTD | SLB | \$ | 94,003.88 | 0.43\% | 2.95\% | 17.50\% | 20.71\% | 0.0893\% |
| SL GREEN REALTY CORP | SLG | \$ | - | N/A | 3.28\% | N/A | N/A | N/A |
| SNAP-ON INC | SNA | \$ | 10,007.58 | 0.05\% | 1.87\% | 9.00\% | 10.95\% | 0.0050\% |
| SCRIPPS NETWORKS INTER-CL A | SNI | \$ | 11,134.67 | 0.05\% | 1.40\% | 6.50\% | 7.95\% | 0.0041\% |
| SYNOPSYS INC | SNPS | \$ | 12,992.58 | 0.06\% | 0.00\% | 9.50\% | 9.50\% | 0.0057\% |
| SOUTHERN CO/THE | SO | \$ | 49,669.55 | 0.23\% | 4.81\% | 3.50\% | 8.39\% | 0.0191\% |
| SIMON PROPERTY GROUP INC | SPG | \$ |  | N/A | 4.49\% | N/A | N/A | N/A |
| S\&P GLOBAL INC | SPGI | \$ | 43,038.90 | 0.20\% | 1.04\% | 11.50\% | 12.60\% | 0.0249\% |
| STERICYCLE INC | SRCL | \$ | 5,874.78 | 0.03\% | 0.00\% | 4.50\% | 4.50\% | 0.0012\% |
| SEMPRA ENERGY | SRE | \$ | 26,834.41 | 0.12\% | 3.26\% | 7.50\% | 10.88\% | 0.0134\% |
| SUNTRUST BANKS INC | STI | \$ | 31,201.87 | 0.14\% | 2.44\% | 7.00\% | 9.53\% | 0.0136\% |
| STATE STREET CORP | STT | \$ | 36,457.38 | 0.17\% | 1.74\% | 7.50\% | 9.31\% | 0.0156\% |
| SEAGATE TECHNOLOGY | STX | \$ | 12,137.39 | 0.06\% | 6.01\% | 4.50\% | 10.65\% | 0.0059\% |
| CONSTELLATION BRANDS INC-A | STZ | \$ | 43,926.59 | 0.20\% | 0.97\% | 13.50\% | 14.54\% | 0.0293\% |
| STANLEY BLACK \& DECKER INC | SWK | \$ | 25,925.69 | 0.12\% | 1.49\% | 9.50\% | 11.06\% | 0.0131\% |
| SKYWORKS SOLUTIONS INC | SWKS | \$ | 17,850.42 | 0.08\% | 1.31\% | 14.00\% | 15.40\% | 0.0126\% |
| SYNCHRONY FINANCIAL | SYF | \$ | 30,207.74 | 0.14\% | 1.55\% | 8.00\% | 9.61\% | 0.0133\% |
| STRYKER CORP | SYK | \$ | 57,633.40 | 0.26\% | 1.22\% | 15.00\% | 16.31\% | 0.0431\% |
| SYMANTEC CORP | SYMC | \$ | 17,647.15 | 0.08\% | 1.05\% | 10.50\% | 11.61\% | 0.0094\% |
| SYSCO CORP | SYY | \$ | 31,607.50 | 0.14\% | 2.38\% | 10.50\% | 13.00\% | 0.0188\% |
| AT\&T INC | T | \$ | 238,697.30 | 1.09\% | 5.14\% | 5.50\% | 10.78\% | 0.1180\% |
| MOLSON COORS BREWING CO -B | TAP | \$ | 17,486.17 | 0.08\% | 2.16\% | 14.00\% | 16.31\% | 0.0131\% |
| TRANSDIGM GROUP INC | TDG | \$ | 14,170.71 | 0.06\% | 0.00\% | 8.00\% | 8.00\% | 0.0052\% |
| TE CONNECTIVITY LTD | TEL | \$ | 33,791.45 | 0.15\% | 1.68\% | 9.50\% | 11.26\% | 0.0174\% |
| TARGET CORP | TGT | \$ | 35,474.01 | 0.16\% | 3.80\% | 4.50\% | 8.39\% | 0.0136\% |
| TIFFANY \& CO | TIF | \$ | 12,735.78 | 0.06\% | 2.05\% | 8.00\% | 10.13\% | 0.0059\% |
| TJX COMPANIES INC | TJX | \$ | 48,244.72 | 0.22\% | 1.64\% | 10.50\% | 12.23\% | 0.0270\% |
| TORCHMARK CORP | TMK | \$ | 10,441.14 | 0.05\% | 0.66\% | 7.50\% | 8.18\% | 0.0039\% |
| THERMO FISHER SCIENTIFIC INC | TMO | \$ | 76,642.18 | 0.35\% | 0.31\% | 10.50\% | 10.83\% | 0.0380\% |
| TAPESTRY INC | TPR | \$ | 12,581.53 | 0.06\% | 3.05\% | 8.00\% | 11.17\% | 0.0064\% |
| TRIPADVISOR INC | TRIP | \$ | 4,823.20 | 0.02\% | 0.00\% | 4.50\% | 4.50\% | 0.0010\% |
| T ROWE PRICE GROUP INC | TROW | \$ | 25,335.59 | 0.12\% | 2.24\% | 8.00\% | 10.33\% | 0.0120\% |
| TRAVELERS COS INC/THE | TRV | \$ | 36,796.23 | 0.17\% | 2.14\% | 1.00\% | 3.15\% | 0.0053\% |
| TRACTOR SUPPLY COMPANY | TSCO | \$ | 9,362.21 | 0.04\% | 1.57\% | 9.00\% | 10.64\% | 0.0046\% |
| TYSON FOODS INC-CL A | TSN | \$ | 29,866.88 | 0.14\% | 1.48\% | 10.50\% | 12.06\% | 0.0165\% |
| TOTAL SYSTEM SERVICES InC | TSS | \$ | 14,461.95 | 0.07\% | 0.66\% | 11.00\% | 11.70\% | 0.0078\% |
| TIME WARNER INC | TWX | \$ | 72,408.05 | 0.33\% | 1.73\% | 9.50\% | 11.31\% | 0.0376\% |
| TEXAS INSTRUMENTS INC | TXN | \$ | 102,650.20 | 0.47\% | 2.38\% | 10.50\% | 13.00\% | 0.0612\% |
| TEXTRON INC | TXT | \$ | 15,061.21 | 0.07\% | 0.14\% | 12.00\% | 12.15\% | 0.0084\% |
| UNDER ARMOUR INC-CLASS A | UAA | \$ | 6,849.68 | 0.03\% | 0.00\% | 10.00\% | 10.00\% | 0.0031\% |
| UNITED CONTINENTAL HOLDINGS | UAL | \$ | 19,931.83 | 0.09\% | 0.00\% | 1.00\% | 1.00\% | 0.0009\% |
| UDR INC | UDR | \$ |  | N/A | 3.29\% | N/A | N/A | N/A |
| UNIVERSAL HEALTH SERVICES-B | UHS | \$ | 10,893.05 | 0.05\% | 0.35\% | 9.00\% | 9.37\% | 0.0047\% |
| ULTA BEAUTY INC | ULTA | \$ | 13,959.68 | 0.06\% | 0.00\% | 20.00\% | 20.00\% | 0.0128\% |
| UNITEDHEALTH GROUP INC | UNH | \$ | 214,817.60 | 0.98\% | 1.35\% | 13.50\% | 14.94\% | 0.1472\% |
| UNUM GROUP | UNM | \$ | 12,302.04 | 0.06\% | 1.68\% | 11.00\% | 12.77\% | 0.0072\% |
| UNION PACIFIC CORP | UNP | \$ | 105,624.60 | 0.48\% | 1.99\% | 8.00\% | 10.07\% | 0.0488\% |
| UNITED PARCEL SERVICE-CL B | UPS | \$ | 102,216.00 | 0.47\% | 2.93\% | 10.00\% | 13.08\% | 0.0613\% |
| UNITED RENTALS INC | URI | \$ | 14,416.99 | 0.07\% | 0.00\% | 8.50\% | 8.50\% | 0.0056\% |
| US BANCORP | USB | \$ | 90,888.80 | 0.42\% | 2.24\% | 4.50\% | 6.79\% | 0.0283\% |
| UNITED TECHNOLOGIES CORP | UTX | \$ | 101,665.90 | 0.47\% | 2.20\% | 7.50\% | 9.78\% | 0.0456\% |
| VISA INC-CLASS A SHARES | $\checkmark$ | \$ | 234,936.90 | 1.08\% | 0.75\% | 11.50\% | 12.29\% | 0.1324\% |
| VARIAN MEDICAL SYSTEMS INC | VAR | \$ | 10,152.11 | 0.05\% | 0.00\% | 7.00\% | 7.00\% | 0.0033\% |
| VF CORP | VFC | \$ | 29,283.96 | 0.13\% | 2.48\% | 8.50\% | 11.09\% | 0.0149\% |
| VIACOM INC-CLASS B | VIAB | \$ | 12,780.22 | 0.06\% | 2.52\% | 2.00\% | 4.55\% | 0.0027\% |
| VALERO ENERGY CORP | VLO | \$ | 39,732.37 | 0.18\% | 3.19\% | 5.00\% | 8.27\% | 0.0151\% |
| VULCAN MATERIALS CO | Vmc | \$ | 16,250.72 | 0.07\% | 0.81\% | 19.00\% | 19.89\% | 0.0148\% |
| VORNADO REALTY TRUST | VNO | \$ | 14,645.29 | 0.07\% | 3.11\% | -0.50\% | 2.60\% | 0.0017\% |
| VERISK ANALYTICS INC | VRSK | \$ | 15,724.54 | 0.07\% | 0.00\% | 10.50\% | 10.50\% | 0.0076\% |
| VERISIGN INC | VRSN | \$ | 11,289.39 | 0.05\% | 0.00\% | 10.50\% | 10.50\% | 0.0054\% |
| VERTEX PHARMACEUTICALS INC | VRTX | \$ | 37,604.29 | N/A | 0.00\% | N/A | N/A | N/A |
| VENTAS INC | VTR | \$ | - | N/A | 5.55\% | N/A | N/A | N/A |
| VERIZON COMMUNICATIONS INC | Vz | \$ | 216,251.20 | 0.99\% | 4.45\% | 2.00\% | 6.49\% | 0.0644\% |
| WATERS CORP | WAT | \$ | 15,468.62 | 0.07\% | 0.00\% | 8.50\% | 8.50\% | 0.0060\% |
| WALGREENS BOOTS ALLIANCE INC | WBA | \$ | 78,384.53 | 0.36\% | 2.18\% | 11.00\% | 13.30\% | 0.0478\% |
| WESTERN DIGITAL CORP | WDC | \$ | 23,844.85 | 0.11\% | 2.47\% | 13.00\% | 15.63\% | 0.0171\% |
| WEC ENERGY GROUP INC | WEC | \$ | 20,708.10 | 0.09\% | 3.37\% | 6.00\% | 9.47\% | 0.0090\% |
| WELLS FARGO \& CO | WFC | \$ | 303,606.10 | 1.39\% | 2.58\% | 5.00\% | 7.64\% | 0.1064\% |
| WHIRLPOOL CORP | WHR | \$ | 12,211.92 | 0.06\% | 2.59\% | 9.50\% | 12.21\% | 0.0068\% |
| WILLIS TOWERS WATSON PLC | WLTW | \$ | 20,155.96 | N/A | 1.39\% | N/A | N/A | N/A |
| WASTE MANAGEMENT INC | WM | \$ | 37,250.53 | 0.17\% | 1.98\% | 8.50\% | 10.56\% | 0.0180\% |


| WILLIAMS COS INC | WMB | \$ | 25,044.32 | 0.11\% | 3.96\% | 18.50\% | 22.83\% | 0.0262\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WAL-MART STORES INC | WMT | \$ | 291,042.10 | 1.33\% | 2.10\% | 5.50\% | 7.66\% | 0.1022\% |
| WESTROCK CO | WRK | \$ | 16,247.28 | 0.07\% | 2.69\% | 10.00\% | 12.82\% | 0.0096\% |
| WESTERN UNION CO | WU | \$ | 8,846.12 | 0.04\% | 3.63\% | 5.50\% | 9.23\% | 0.0037\% |
| WEYERHAEUSER CO | WY | \$ | 26,514.93 | 0.12\% | 3.64\% | 14.50\% | 18.40\% | 0.0224\% |
| WYNDHAM WORLDWIDE CORP | WYN | \$ | 11,476.56 | 0.05\% | 2.23\% | 7.50\% | 9.81\% | 0.0052\% |
| WYNN RESORTS LTD | WYNN | \$ | 17,319.96 | 0.08\% | 1.19\% | 14.00\% | 15.27\% | 0.0121\% |
| CIMAREX ENERGY CO | XEC | \$ | 11,315.10 | 0.05\% | 0.27\% | 31.00\% | 31.31\% | 0.0162\% |
| XCEL ENERGY INC | XEL | \$ | 24,570.65 | 0.11\% | 3.10\% | 4.50\% | 7.67\% | 0.0086\% |
| XL GROUP LTD | XL | \$ | 9,357.13 | 0.04\% | 2.51\% | 13.00\% | 15.67\% | 0.0067\% |
| XILINX INC | XLNX | \$ | 17,157.65 | 0.08\% | 2.05\% | 8.00\% | 10.13\% | 0.0080\% |
| EXXON MOBIL CORP | XOM | \$ | 355,272.50 | 1.63\% | 3.72\% | 10.50\% | 14.42\% | 0.2348\% |
| DENTSPLY SIRONA INC | XRAY | \$ | 15,038.80 | 0.07\% | 0.53\% | 8.50\% | 9.05\% | 0.0062\% |
| XEROX CORP | XRX | \$ | 7,563.75 | 0.03\% | 3.37\% | 4.00\% | 7.44\% | 0.0026\% |
| XYLEM INC | XYL | \$ | 12,167.90 | 0.06\% | 1.06\% | 14.00\% | 15.13\% | 0.0084\% |
| YUM! BRANDS INC | YUM | \$ | 27,967.50 | 0.13\% | 1.60\% | 6.50\% | 8.15\% | 0.0105\% |
| ZIMMER BIOMET HOLDINGS INC | ZBH | \$ | 24,277.88 | 0.11\% | 0.90\% | 11.00\% | 11.95\% | 0.0133\% |
| ZIONS BANCORPORATION | ZION | \$ | 10,277.18 | 0.05\% | 1.63\% | 13.50\% | 15.24\% | 0.0072\% |
| ZOETIS INC | ZTS | \$ | 35,260.50 | 0.16\% | 0.70\% | 12.00\% | 12.74\% | 0.0206\% |

Notes:
1] Equals sum of Col. [9]
2] Source: Bloomberg Professional
[3] Equals [1] - [2]
[4] Source: Value Line
[5] Equals weight in S\&P 500 based on market capitalization
[6] Source: Value Line
[7] Source: Value Line
8] Equals $([6] \times(1+(0.5 \times[7])))+[7$
[9] Equals Col. [5] x Col. [8]

Bloomberg and Value Line Beta Coefficients

|  |  | $[1]$ | $[2]$ |
| :--- | :---: | :---: | :---: |
| Company | Ticker | Bloomberg | Value Line |
|  |  |  |  |
| ALLETE, Inc. | ALE | 0.746 | 0.800 |
| Alliant Energy Corporation | LNT | 0.469 | 0.700 |
| Ameren Corporation | AEE | 0.443 | 0.700 |
| American Electric Power Company, Inc. | AEP | 0.496 | 0.650 |
| Black Hills Corporation | BKH | 0.519 | 0.900 |
| CMS Energy Corporation | CMS | 0.475 | 0.650 |
| Dominion Resources, Inc. | D | 0.500 | 0.650 |
| DTE Energy Company | DTE | 0.521 | 0.650 |
| Duke Energy Corporation | DUK | 0.461 | 0.600 |
| El Paso Electric Company | EE | 0.762 | 0.800 |
| Hawaiian Electric Industries, Inc. | HE | 0.564 | 0.700 |
| IDACORP, Inc. | IDA | 0.700 | 0.700 |
| NorthWestern Corporation | NWE | 0.602 | 0.700 |
| OGE Energy Corp. | OGE | 0.652 | 0.950 |
| Otter Tail Corporation | OTTR | 0.870 | 0.900 |
| Pinnacle West Capital Corporation | PNW | 0.563 | 0.700 |
| PNM Resources, Inc. | PNM | 0.615 | 0.750 |
| Portland General Electric Company | POR | 0.470 | 0.700 |
| Southern Company | SO | 0.531 | 0.550 |
| Wisconsin Energy Corporation | WEC | 0.431 | 0.600 |
| Xcel Energy Inc. | XEL | 0.401 | 0.600 |
| Mean |  |  | 0.561 |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Value Line

Capital Asset Pricing Model Results Bloomberg, and Value Line Derived Market Risk Premium

|  | [1] | [2] | [3] | [4] | [5] | [6] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Average Beta Coefficient | Ex-Ante Market Risk Premium  <br> Bloomberg Value Line <br> Market DCF Market DCF <br> Derived Derived |  | CAPM Result |  |
|  | Risk-Free Rate |  |  |  | Bloomberg Market DCF Derived | Value Line Market DCF Derived |
| PROXY GROUP AVERAGE BLOOMBERG BETA COEFFICIENT |  |  |  |  |  |  |
| Current 30-Year Treasury (30-day average) [7] | 2.77\% | 0.561 | 11.00\% | 11.89\% | 8.95\% | 9.45\% |
| Near-Term Projected 30-Year Treasury [8] | 3.32\% | 0.561 | 11.00\% | 11.89\% | 9.50\% | 9.99\% |
| Mean |  |  |  |  | 9.22\% | 9.72\% |
|  | Risk-Free Rate | Average Beta Coefficient | Ex-Ante Market Risk Premium  <br> Bloomberg Value Line <br> Market DCF Market DCF <br> Derived Derived |  | CAPM Result |  |
|  |  |  |  |  | Bloomberg | Value Line |
|  |  |  |  |  | Market DCF Derived | Market DCF Derived |
| PROXY GROUP AVERAGE VALUE LINE AVERAGE BETA COEFFICIENT |  |  |  |  |  |  |
| Current 30-Year Treasury (30-day average) [7] | 2.77\% | 0.712 | 11.00\% | 11.89\% | 10.61\% | 11.24\% |
| Near-Term Projected 30-Year Treasury [8] | 3.32\% | 0.712 | 11.00\% | 11.89\% | 11.15\% | 11.78\% |
| Mean |  |  |  |  | 10.88\% | 11.51\% |

Notes:
[1] See Notes [7], [8] and [9]
[2] Source: RBH-4
[3] Source: RBH-3
[4] Source: RBH-3
[5] Equals Col. [1] + (Col. [2] $\times$ Col. [3])
[6] Equals Col. [1] + (Col. [2] x Col. [4])
[7] Bloomberg Professional
[8] Source: Blue Chip Financial Forecasts, Vol. 37, No. 1, January 1, 2018, at 2.

| [1] | [2] | $[3]$ <br> $30-Y e a r ~$ | [4] | $[5]$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Rreasury <br> Yield | Risk <br> Premium | Return on <br> Equity |
| Constant | Slope |  |  |  |
| $-2.56 \%$ | $-2.72 \%$ |  | $7.18 \%$ | $9.95 \%$ |
| Current 30-Year Treasury |  | $2.77 \%$ | $6.69 \%$ | $10.01 \%$ |
| Prected 30-Year Treasury | $3.32 \%$ | $6.05 \%$ | $10.25 \%$ |  |



Notes:
[1] Constant of regression equation
[2] Slope of regression equation
[3] Source: Current = Bloomberg Professional,
Near Term Projected = Blue Chip Financial Forecasts, Vol. 37, No. 1, January 1, 2018, at 2.
Long Term Projected = Blue Chip Financial Forecasts, Vol. 36, No. 12, December 1, 2017, at 14.
[4] Equals [1] $+\ln ([3]) \times[2]$
[5] Equals [3] + [4]
[6] Source: S\&P Global Market Intelligence
[7] Source: S\&P Global Market Intelligence
[8] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
[9] Equals [7] - [8]

| Bond Yield Plus Risk Premium |  |  |  |
| :---: | :---: | :---: | :---: |
| [6] | [7] | [8] | [9] |
| Date of |  | 30 -Year |  |
| Electric Rate | Return on | Treasury | Risk |
| Case | Equity | Yield | Premium |
| 1/1/1980 | 14.50\% | 9.36\% | 5.14\% |
| 1/7/1980 | 14.39\% | 9.38\% | 5.01\% |
| 1/9/1980 | 15.00\% | 9.40\% | 5.60\% |
| 1/14/1980 | 15.17\% | 9.42\% | 5.75\% |
| 1/17/1980 | 13.93\% | 9.44\% | 4.49\% |
| 1/23/1980 | 15.50\% | 9.47\% | 6.03\% |
| 1/30/1980 | 13.86\% | 9.52\% | 4.34\% |
| 1/31/1980 | 12.61\% | 9.53\% | 3.08\% |
| 2/6/1980 | 13.71\% | 9.58\% | 4.13\% |
| 2/13/1980 | 12.80\% | 9.63\% | 3.17\% |
| 2/14/1980 | 13.00\% | 9.65\% | 3.35\% |
| 2/19/1980 | 13.50\% | 9.68\% | 3.82\% |
| 2/27/1980 | 13.75\% | 9.78\% | 3.97\% |
| 2/29/1980 | 13.75\% | 9.81\% | 3.94\% |
| 2/29/1980 | 14.00\% | 9.81\% | 4.19\% |
| 2/29/1980 | 14.77\% | 9.81\% | 4.96\% |
| 3/7/1980 | 12.70\% | 9.89\% | 2.81\% |
| 3/14/1980 | 13.50\% | 9.97\% | 3.53\% |
| 3/26/1980 | 14.16\% | 10.10\% | 4.06\% |
| 3/27/1980 | 14.24\% | 10.12\% | 4.12\% |
| 3/28/1980 | 14.50\% | 10.13\% | 4.37\% |
| 4/11/1980 | 12.75\% | 10.27\% | 2.48\% |
| 4/14/1980 | 13.85\% | 10.29\% | 3.56\% |
| 4/16/1980 | 15.50\% | 10.31\% | 5.19\% |
| 4/22/1980 | 13.25\% | 10.35\% | 2.90\% |
| 4/22/1980 | 13.90\% | 10.35\% | 3.55\% |
| 4/24/1980 | 16.80\% | 10.38\% | 6.43\% |
| 4/29/1980 | 15.50\% | 10.41\% | 5.09\% |
| 5/6/1980 | 13.70\% | 10.45\% | 3.25\% |
| 5/7/1980 | 15.00\% | 10.45\% | 4.55\% |
| 5/8/1980 | 13.75\% | 10.46\% | 3.29\% |
| 5/9/1980 | 14.35\% | 10.47\% | 3.88\% |
| 5/13/1980 | 13.60\% | 10.48\% | 3.12\% |
| 5/15/1980 | 13.25\% | 10.49\% | 2.76\% |
| 5/19/1980 | 13.75\% | 10.51\% | 3.24\% |
| 5/27/1980 | 13.62\% | 10.54\% | 3.08\% |
| 5/27/1980 | 14.60\% | 10.54\% | 4.06\% |
| 5/29/1980 | 16.00\% | 10.56\% | 5.44\% |
| 5/30/1980 | 13.80\% | 10.56\% | 3.24\% |
| 6/2/1980 | 15.63\% | 10.57\% | 5.06\% |
| 6/9/1980 | 15.90\% | 10.60\% | 5.30\% |
| 6/10/1980 | 13.78\% | 10.60\% | 3.18\% |
| 6/12/1980 | 14.25\% | 10.61\% | 3.64\% |
| 6/19/1980 | 13.40\% | 10.62\% | 2.78\% |
| 6/30/1980 | 13.00\% | 10.65\% | 2.35\% |
| 6/30/1980 | 13.40\% | 10.65\% | 2.75\% |
| 7/9/1980 | 14.75\% | 10.67\% | 4.08\% |
| 7/10/1980 | 15.00\% | 10.68\% | 4.32\% |
| 7/15/1980 | 15.80\% | 10.70\% | 5.10\% |
| 7/18/1980 | 13.80\% | 10.71\% | 3.09\% |
| 7/22/1980 | 14.10\% | 10.72\% | 3.38\% |
| 7/24/1980 | 15.00\% | 10.73\% | 4.27\% |


| 7/25/1980 | 13.48\% | 10.73\% | 2.75\% |
| :---: | :---: | :---: | :---: |
| 7/31/1980 | 14.58\% | 10.75\% | 3.83\% |
| 8/8/1980 | 13.50\% | 10.78\% | 2.72\% |
| 8/8/1980 | 14.00\% | 10.78\% | 3.22\% |
| 8/8/1980 | 15.45\% | 10.78\% | 4.67\% |
| 8/11/1980 | 14.85\% | 10.78\% | 4.07\% |
| 8/14/1980 | 14.00\% | 10.79\% | 3.21\% |
| 8/14/1980 | 16.25\% | 10.79\% | 5.46\% |
| 8/25/1980 | 13.75\% | 10.82\% | 2.93\% |
| 8/27/1980 | 13.80\% | 10.83\% | 2.97\% |
| 8/29/1980 | 12.50\% | 10.84\% | 1.66\% |
| 9/15/1980 | 13.50\% | 10.88\% | 2.62\% |
| 9/15/1980 | 13.93\% | 10.88\% | 3.05\% |
| 9/15/1980 | 15.80\% | 10.88\% | 4.92\% |
| 9/24/1980 | 12.50\% | 10.93\% | 1.57\% |
| 9/24/1980 | 15.00\% | 10.93\% | 4.07\% |
| 9/26/1980 | 13.75\% | 10.94\% | 2.81\% |
| 9/30/1980 | 14.10\% | 10.96\% | 3.14\% |
| 9/30/1980 | 14.20\% | 10.96\% | 3.24\% |
| 10/1/1980 | 13.90\% | 10.97\% | 2.93\% |
| 10/3/1980 | 15.50\% | 10.98\% | 4.52\% |
| 10/7/1980 | 12.50\% | 10.99\% | 1.51\% |
| 10/9/1980 | 13.25\% | 11.00\% | 2.25\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/16/1980 | 16.10\% | 11.02\% | 5.08\% |
| 10/17/1980 | 14.50\% | 11.03\% | 3.47\% |
| 10/31/1980 | 13.75\% | 11.11\% | 2.64\% |
| 10/31/1980 | 14.25\% | 11.11\% | 3.14\% |
| 11/4/1980 | 15.00\% | 11.12\% | 3.88\% |
| 11/5/1980 | 13.75\% | 11.12\% | 2.63\% |
| 11/5/1980 | 14.00\% | 11.12\% | 2.88\% |
| 11/8/1980 | 13.75\% | 11.14\% | 2.61\% |
| 11/10/1980 | 14.85\% | 11.15\% | 3.70\% |
| 11/17/1980 | 14.00\% | 11.18\% | 2.82\% |
| 11/18/1980 | 14.00\% | 11.19\% | 2.81\% |
| 11/19/1980 | 13.00\% | 11.19\% | 1.81\% |
| 11/24/1980 | 14.00\% | 11.21\% | 2.79\% |
| 11/26/1980 | 14.00\% | 11.21\% | 2.79\% |
| 12/8/1980 | 14.15\% | 11.22\% | 2.93\% |
| 12/8/1980 | 15.10\% | 11.22\% | 3.88\% |
| 12/9/1980 | 15.35\% | 11.22\% | 4.13\% |
| 12/12/1980 | 15.45\% | 11.23\% | 4.22\% |
| 12/17/1980 | 13.25\% | 11.23\% | 2.02\% |
| 12/18/1980 | 15.80\% | 11.23\% | 4.57\% |
| 12/19/1980 | 14.50\% | 11.23\% | 3.27\% |
| 12/19/1980 | 14.64\% | 11.23\% | 3.41\% |
| 12/22/1980 | 13.45\% | 11.23\% | 2.22\% |
| 12/22/1980 | 15.00\% | 11.23\% | 3.77\% |
| 12/30/1980 | 14.50\% | 11.22\% | 3.28\% |
| 12/30/1980 | 14.95\% | 11.22\% | 3.73\% |
| 12/31/1980 | 13.39\% | 11.22\% | 2.17\% |
| 1/2/1981 | 15.25\% | 11.22\% | 4.03\% |
| 1/7/1981 | 14.30\% | 11.21\% | 3.09\% |
| 1/19/1981 | 15.25\% | 11.20\% | 4.05\% |
| 1/23/1981 | 13.10\% | 11.20\% | 1.90\% |
| 1/23/1981 | 14.40\% | 11.20\% | 3.20\% |

Schedule RBH-6
Page 3 of 29

| 1/26/1981 | 15.25\% | 11.20\% | 4.05\% |
| :---: | :---: | :---: | :---: |
| 1/27/1981 | 15.00\% | 11.21\% | 3.79\% |
| 1/31/1981 | 13.47\% | 11.22\% | 2.25\% |
| 2/3/1981 | 15.25\% | 11.23\% | 4.02\% |
| 2/5/1981 | 15.75\% | 11.25\% | 4.50\% |
| 2/11/1981 | 15.60\% | 11.28\% | 4.32\% |
| 2/20/1981 | 15.25\% | 11.33\% | 3.92\% |
| 3/11/1981 | 15.40\% | 11.49\% | 3.91\% |
| 3/12/1981 | 14.51\% | 11.50\% | 3.01\% |
| 3/12/1981 | 16.00\% | 11.50\% | 4.50\% |
| 3/13/1981 | 13.02\% | 11.52\% | 1.50\% |
| 3/18/1981 | 16.19\% | 11.55\% | 4.64\% |
| 3/19/1981 | 13.75\% | 11.56\% | 2.19\% |
| 3/23/1981 | 14.30\% | 11.58\% | 2.72\% |
| 3/25/1981 | 15.30\% | 11.60\% | 3.70\% |
| 4/1/1981 | 14.53\% | 11.68\% | 2.85\% |
| 4/3/1981 | 19.10\% | 11.71\% | 7.39\% |
| 4/9/1981 | 15.00\% | 11.78\% | 3.22\% |
| 4/9/1981 | 15.30\% | 11.78\% | 3.52\% |
| 4/9/1981 | 16.50\% | 11.78\% | 4.72\% |
| 4/9/1981 | 17.00\% | 11.78\% | 5.22\% |
| 4/10/1981 | 13.75\% | 11.80\% | 1.95\% |
| 4/13/1981 | 13.57\% | 11.82\% | 1.75\% |
| 4/15/1981 | 15.30\% | 11.85\% | 3.45\% |
| 4/16/1981 | 13.50\% | 11.87\% | 1.63\% |
| 4/17/1981 | 14.10\% | 11.87\% | 2.23\% |
| 4/21/1981 | 14.00\% | 11.90\% | 2.10\% |
| 4/21/1981 | 16.80\% | 11.90\% | 4.90\% |
| 4/24/1981 | 16.00\% | 11.95\% | 4.05\% |
| 4/27/1981 | 12.50\% | 11.97\% | 0.53\% |
| 4/27/1981 | 13.61\% | 11.97\% | 1.64\% |
| 4/29/1981 | 13.65\% | 12.00\% | 1.65\% |
| 4/30/1981 | 13.50\% | 12.02\% | 1.48\% |
| 5/4/1981 | 16.22\% | 12.05\% | 4.17\% |
| 5/5/1981 | 14.40\% | 12.07\% | 2.33\% |
| 5/7/1981 | 16.25\% | 12.11\% | 4.14\% |
| 5/7/1981 | 16.27\% | 12.11\% | 4.16\% |
| 5/8/1981 | 13.00\% | 12.13\% | 0.87\% |
| 5/8/1981 | 16.00\% | 12.13\% | 3.87\% |
| 5/12/1981 | 13.50\% | 12.16\% | 1.34\% |
| 5/15/1981 | 15.75\% | 12.22\% | 3.53\% |
| 5/18/1981 | 14.88\% | 12.23\% | 2.65\% |
| 5/20/1981 | 16.00\% | 12.26\% | 3.74\% |
| 5/21/1981 | 14.00\% | 12.27\% | 1.73\% |
| 5/26/1981 | 14.90\% | 12.30\% | 2.60\% |
| 5/27/1981 | 15.00\% | 12.31\% | 2.69\% |
| 5/29/1981 | 15.50\% | 12.34\% | 3.16\% |
| 6/1/1981 | 16.50\% | 12.35\% | 4.15\% |
| 6/3/1981 | 14.67\% | 12.37\% | 2.30\% |
| 6/5/1981 | 13.00\% | 12.39\% | 0.61\% |
| 6/10/1981 | 16.75\% | 12.42\% | 4.33\% |
| 6/17/1981 | 14.40\% | 12.46\% | 1.94\% |
| 6/18/1981 | 16.33\% | 12.47\% | 3.86\% |
| 6/25/1981 | 14.75\% | 12.51\% | 2.24\% |
| 6/26/1981 | 16.00\% | 12.52\% | 3.48\% |
| 6/30/1981 | 15.25\% | 12.54\% | 2.71\% |
| 7/1/1981 | 15.50\% | 12.56\% | 2.94\% |

Schedule RBH-6
Page 4 of 29

| 7/1/1981 | 17.50\% | 12.56\% | 4.94\% |
| :---: | :---: | :---: | :---: |
| 7/10/1981 | 16.00\% | 12.62\% | 3.38\% |
| 7/14/1981 | 16.90\% | 12.64\% | 4.26\% |
| 7/15/1981 | 16.00\% | 12.65\% | 3.35\% |
| 7/17/1981 | 15.00\% | 12.67\% | 2.33\% |
| 7/20/1981 | 15.00\% | 12.68\% | 2.32\% |
| 7/21/1981 | 14.00\% | 12.69\% | 1.31\% |
| 7/28/1981 | 13.48\% | 12.74\% | 0.74\% |
| 7/31/1981 | 13.50\% | 12.78\% | 0.72\% |
| 7/31/1981 | 15.00\% | 12.78\% | 2.22\% |
| 7/31/1981 | 16.00\% | 12.78\% | 3.22\% |
| 8/5/1981 | 15.71\% | 12.83\% | 2.88\% |
| 8/10/1981 | 14.50\% | 12.87\% | 1.63\% |
| 8/11/1981 | 15.00\% | 12.88\% | 2.12\% |
| 8/20/1981 | 13.50\% | 12.95\% | 0.55\% |
| 8/20/1981 | 16.50\% | 12.95\% | 3.55\% |
| 8/24/1981 | 15.00\% | 12.97\% | 2.03\% |
| 8/28/1981 | 15.00\% | 13.01\% | 1.99\% |
| 9/3/1981 | 14.50\% | 13.05\% | 1.45\% |
| 9/10/1981 | 14.50\% | 13.11\% | 1.39\% |
| 9/11/1981 | 16.00\% | 13.12\% | 2.88\% |
| 9/16/1981 | 16.00\% | 13.15\% | 2.85\% |
| 9/17/1981 | 16.50\% | 13.16\% | 3.34\% |
| 9/23/1981 | 15.85\% | 13.20\% | 2.65\% |
| 9/28/1981 | 15.50\% | 13.23\% | 2.27\% |
| 10/9/1981 | 15.75\% | 13.33\% | 2.42\% |
| 10/15/1981 | 16.25\% | 13.37\% | 2.88\% |
| 10/16/1981 | 15.50\% | 13.38\% | 2.12\% |
| 10/16/1981 | 16.50\% | 13.38\% | 3.12\% |
| 10/19/1981 | 14.25\% | 13.39\% | 0.86\% |
| 10/20/1981 | 15.25\% | 13.41\% | 1.84\% |
| 10/20/1981 | 17.00\% | 13.41\% | 3.59\% |
| 10/23/1981 | 16.00\% | 13.45\% | 2.55\% |
| 10/27/1981 | 10.00\% | 13.48\% | -3.48\% |
| 10/29/1981 | 14.75\% | 13.51\% | 1.24\% |
| 10/29/1981 | 16.50\% | 13.51\% | 2.99\% |
| 11/3/1981 | 15.17\% | 13.53\% | 1.64\% |
| 11/5/1981 | 16.60\% | 13.55\% | 3.05\% |
| 11/6/1981 | 15.17\% | 13.56\% | 1.61\% |
| 11/24/1981 | 15.50\% | 13.61\% | 1.89\% |
| 11/25/1981 | 15.25\% | 13.61\% | 1.64\% |
| 11/25/1981 | 15.35\% | 13.61\% | 1.74\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 12/1/1981 | 15.70\% | 13.61\% | 2.09\% |
| 12/1/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/1/1981 | 16.49\% | 13.61\% | 2.88\% |
| 12/1/1981 | 16.50\% | 13.61\% | 2.89\% |
| 12/4/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/11/1981 | 16.25\% | 13.63\% | 2.62\% |
| 12/14/1981 | 14.00\% | 13.63\% | 0.37\% |
| 12/15/1981 | 15.81\% | 13.63\% | 2.18\% |
| 12/15/1981 | 16.00\% | 13.63\% | 2.37\% |
| 12/16/1981 | 15.25\% | 13.63\% | 1.62\% |
| 12/17/1981 | 16.50\% | 13.63\% | 2.87\% |
| 12/18/1981 | 15.45\% | 13.63\% | 1.82\% |
| 12/30/1981 | 14.25\% | 13.67\% | 0.58\% |

Schedule RBH-6
Page 5 of 29

| 12/30/1981 | 16.00\% | 13.67\% | 2.33\% |
| :---: | :---: | :---: | :---: |
| 12/30/1981 | 16.25\% | 13.67\% | 2.58\% |
| 12/31/1981 | 16.15\% | 13.67\% | 2.48\% |
| 1/4/1982 | 15.50\% | 13.67\% | 1.83\% |
| 1/11/1982 | 14.50\% | 13.72\% | 0.78\% |
| 1/11/1982 | 17.00\% | 13.72\% | 3.28\% |
| 1/13/1982 | 14.75\% | 13.74\% | 1.01\% |
| 1/14/1982 | 15.75\% | 13.75\% | 2.00\% |
| 1/15/1982 | 15.00\% | 13.76\% | 1.24\% |
| 1/15/1982 | 16.50\% | 13.76\% | 2.74\% |
| 1/22/1982 | 16.25\% | 13.79\% | 2.46\% |
| 1/27/1982 | 16.84\% | 13.81\% | 3.03\% |
| 1/28/1982 | 13.00\% | 13.81\% | -0.81\% |
| 1/29/1982 | 15.50\% | 13.82\% | 1.68\% |
| 2/1/1982 | 15.85\% | 13.82\% | 2.03\% |
| 2/3/1982 | 16.44\% | 13.84\% | 2.60\% |
| 2/8/1982 | 15.50\% | 13.86\% | 1.64\% |
| 2/11/1982 | 16.00\% | 13.88\% | 2.12\% |
| 2/11/1982 | 16.20\% | 13.88\% | 2.32\% |
| 2/17/1982 | 15.00\% | 13.89\% | 1.11\% |
| 2/19/1982 | 15.17\% | 13.89\% | 1.28\% |
| 2/26/1982 | 15.25\% | 13.89\% | 1.36\% |
| 3/1/1982 | 15.03\% | 13.89\% | 1.14\% |
| 3/1/1982 | 16.00\% | 13.89\% | 2.11\% |
| 3/3/1982 | 15.00\% | 13.88\% | 1.12\% |
| 3/8/1982 | 17.10\% | 13.88\% | 3.22\% |
| 3/12/1982 | 16.25\% | 13.88\% | 2.37\% |
| 3/17/1982 | 17.30\% | 13.88\% | 3.42\% |
| 3/22/1982 | 15.10\% | 13.89\% | 1.21\% |
| 3/27/1982 | 15.40\% | 13.89\% | 1.51\% |
| 3/30/1982 | 15.50\% | 13.90\% | 1.60\% |
| 3/31/1982 | 17.00\% | 13.91\% | 3.09\% |
| 4/1/1982 | 14.70\% | 13.91\% | 0.79\% |
| 4/1/1982 | 16.50\% | 13.91\% | 2.59\% |
| 4/2/1982 | 15.50\% | 13.91\% | 1.59\% |
| 4/5/1982 | 15.50\% | 13.92\% | 1.58\% |
| 4/8/1982 | 16.40\% | 13.93\% | 2.47\% |
| 4/13/1982 | 14.50\% | 13.94\% | 0.56\% |
| 4/23/1982 | 15.75\% | 13.94\% | 1.81\% |
| 4/27/1982 | 15.00\% | 13.94\% | 1.06\% |
| 4/28/1982 | 15.75\% | 13.94\% | 1.81\% |
| 4/30/1982 | 14.70\% | 13.94\% | 0.76\% |
| 4/30/1982 | 15.50\% | 13.94\% | 1.56\% |
| 5/3/1982 | 16.60\% | 13.94\% | 2.66\% |
| 5/4/1982 | 16.00\% | 13.94\% | 2.06\% |
| 5/14/1982 | 15.50\% | 13.92\% | 1.58\% |
| 5/18/1982 | 15.42\% | 13.92\% | 1.50\% |
| 5/19/1982 | 14.69\% | 13.92\% | 0.77\% |
| 5/20/1982 | 15.00\% | 13.91\% | 1.09\% |
| 5/20/1982 | 15.10\% | 13.91\% | 1.19\% |
| 5/20/1982 | 15.50\% | 13.91\% | 1.59\% |
| 5/20/1982 | 16.30\% | 13.91\% | 2.39\% |
| 5/21/1982 | 17.75\% | 13.91\% | 3.84\% |
| 5/27/1982 | 15.00\% | 13.89\% | 1.11\% |
| 5/28/1982 | 15.50\% | 13.89\% | 1.61\% |
| 5/28/1982 | 17.00\% | 13.89\% | 3.11\% |
| 6/1/1982 | 13.75\% | 13.89\% | -0.14\% |


| $6 / 1 / 1982$ | $16.60 \%$ | $13.89 \%$ | $2.71 \%$ |
| :---: | :---: | :---: | :---: |
| $6 / 9 / 1982$ | $17.86 \%$ | $13.88 \%$ | $3.98 \%$ |
| $6 / 14 / 1982$ | $15.75 \%$ | $13.88 \%$ | $1.87 \%$ |
| $6 / 15 / 1982$ | $14.85 \%$ | $13.88 \%$ | $0.97 \%$ |
| $6 / 18 / 1982$ | $15.50 \%$ | $13.87 \%$ | $1.63 \%$ |
| $6 / 21 / 1982$ | $14.90 \%$ | $13.87 \%$ | $1.03 \%$ |
| $6 / 23 / 1982$ | $16.00 \%$ | $13.86 \%$ | $2.14 \%$ |
| $6 / 23 / 1982$ | $16.17 \%$ | $13.86 \%$ | $2.31 \%$ |
| $6 / 24 / 1982$ | $14.85 \%$ | $13.86 \%$ | $0.99 \%$ |
| $6 / 25 / 1982$ | $14.70 \%$ | $13.86 \%$ | $0.84 \%$ |
| $7 / 1 / 1982$ | $16.00 \%$ | $13.84 \%$ | $2.16 \%$ |
| $7 / 2 / 1982$ | $15.62 \%$ | $13.84 \%$ | $1.78 \%$ |
| $7 / 2 / 1982$ | $17.00 \%$ | $13.84 \%$ | $3.16 \%$ |
| $7 / 13 / 1982$ | $14.00 \%$ | $13.82 \%$ | $0.18 \%$ |
| $7 / 13 / 1982$ | $16.80 \%$ | $13.82 \%$ | $2.98 \%$ |
| $7 / 14 / 1982$ | $15.76 \%$ | $13.82 \%$ | $1.94 \%$ |
| $7 / 14 / 1982$ | $16.02 \%$ | $13.82 \%$ | $2.20 \%$ |
| $7 / 19 / 1982$ | $16.50 \%$ | $13.80 \%$ | $2.70 \%$ |
| $7 / 22 / 1982$ | $14.50 \%$ | $13.77 \%$ | $0.73 \%$ |
| $7 / 22 / 1982$ | $17.00 \%$ | $13.77 \%$ | $3.23 \%$ |
| $7 / 27 / 1982$ | $16.75 \%$ | $13.75 \%$ | $3.00 \%$ |
| $7 / 29 / 1982$ | $16.50 \%$ | $13.74 \%$ | $2.76 \%$ |
| $8 / 11 / 1982$ | $17.50 \%$ | $13.68 \%$ | $3.82 \%$ |
| $8 / 18 / 1982$ | $17.07 \%$ | $13.63 \%$ | $3.44 \%$ |
| $8 / 20 / 1982$ | $15.73 \%$ | $13.60 \%$ | $2.13 \%$ |
| $8 / 25 / 1982$ | $16.00 \%$ | $13.57 \%$ | $2.43 \%$ |
| $8 / 26 / 1982$ | $15.50 \%$ | $13.56 \%$ | $1.94 \%$ |
| $8 / 30 / 1982$ | $15.00 \%$ | $13.55 \%$ | $1.45 \%$ |
| $9 / 3 / 1982$ | $16.20 \%$ | $13.53 \%$ | $2.67 \%$ |
| $9 / 8 / 1982$ | $15.00 \%$ | $13.52 \%$ | $1.48 \%$ |
| $9 / 15 / 1982$ | $13.08 \%$ | $13.50 \%$ | $-0.42 \%$ |
| $9 / 15 / 1982$ | $16.25 \%$ | $13.50 \%$ | $2.75 \%$ |
| $9 / 16 / 1982$ | $16.00 \%$ | $13.50 \%$ | $2.50 \%$ |
| $9 / 17 / 1982$ | $15.25 \%$ | $13.50 \%$ | $1.75 \%$ |
| $9 / 23 / 1982$ | $17.17 \%$ | $13.47 \%$ | $3.70 \%$ |
| $9 / 24 / 1982$ | $14.50 \%$ | $13.46 \%$ | $1.04 \%$ |
| $9 / 27 / 1982$ | $15.25 \%$ | $13.46 \%$ | $1.79 \%$ |
| $10 / 1 / 1982$ | $15.50 \%$ | $13.42 \%$ | $2.08 \%$ |
| $10 / 15 / 1982$ | $15.90 \%$ | $13.32 \%$ | $2.58 \%$ |
| $10 / 22 / 1982$ | $15.75 \%$ | $13.24 \%$ | $2.51 \%$ |
| $10 / 22 / 1982$ | $17.15 \%$ | $13.24 \%$ | $3.91 \%$ |
| $10 / 29 / 1982$ | $15.54 \%$ | $13.16 \%$ | $2.38 \%$ |
| $11 / 1 / 1982$ | $15.50 \%$ | $13.15 \%$ | $2.35 \%$ |
| $11 / 3 / 1982$ | $17.20 \%$ | $13.13 \%$ | $4.07 \%$ |
| $11 / 4 / 1982$ | $16.25 \%$ | $13.11 \%$ | $3.14 \%$ |
| $11 / 5 / 1982$ | $16.20 \%$ | $13.09 \%$ | $3.11 \%$ |
| $11 / 9 / 1982$ | $16.00 \%$ | $13.05 \%$ | $2.95 \%$ |
| $11 / 23 / 1982$ | $15.50 \%$ | $12.89 \%$ | $2.61 \%$ |
| $11 / 23 / 1982$ | $15.85 \%$ | $12.89 \%$ | $2.96 \%$ |
| $11 / 30 / 1982$ | $16.50 \%$ | $12.81 \%$ | $3.69 \%$ |
| $12 / 1 / 1982$ | $17.04 \%$ | $12.79 \%$ | $4.25 \%$ |
| $12 / 6 / 1982$ | $15.00 \%$ | $12.73 \%$ | $2.27 \%$ |
| $12 / 6 / 1982$ | $16.35 \%$ | $12.73 \%$ | $3.62 \%$ |
| $12 / 10 / 1982$ | $15.50 \%$ | $12.66 \%$ | $2.84 \%$ |
| $12 / 13 / 1982$ | $16.00 \%$ | $12.65 \%$ | $3.35 \%$ |
| $12 / 14 / 1982$ | $15.30 \%$ | $12.63 \%$ | $2.67 \%$ |
| $12 / 14 / 1982$ | $16.40 \%$ | $12.63 \%$ | $3.77 \%$ |
|  |  |  |  |
| 1 |  |  |  |

Schedule RBH-6
Page 7 of 29

| 12/20/1982 | 16.00\% | 12.57\% | 3.43\% |
| :---: | :---: | :---: | :---: |
| 12/21/1982 | 14.75\% | 12.56\% | 2.19\% |
| 12/21/1982 | 15.85\% | 12.56\% | 3.29\% |
| 12/22/1982 | 16.25\% | 12.54\% | 3.71\% |
| 12/22/1982 | 16.58\% | 12.54\% | 4.04\% |
| 12/22/1982 | 16.75\% | 12.54\% | 4.21\% |
| 12/29/1982 | 14.90\% | 12.48\% | 2.42\% |
| 12/29/1982 | 16.25\% | 12.48\% | 3.77\% |
| 12/30/1982 | 16.00\% | 12.47\% | 3.53\% |
| 12/30/1982 | 16.35\% | 12.47\% | 3.88\% |
| 12/30/1982 | 16.77\% | 12.47\% | 4.30\% |
| 1/5/1983 | 17.33\% | 12.40\% | 4.93\% |
| 1/11/1983 | 15.90\% | 12.34\% | 3.56\% |
| 1/12/1983 | 14.63\% | 12.33\% | 2.30\% |
| 1/12/1983 | 15.50\% | 12.33\% | 3.17\% |
| 1/20/1983 | 17.75\% | 12.24\% | 5.51\% |
| 1/21/1983 | 15.00\% | 12.22\% | 2.78\% |
| 1/24/1983 | 14.50\% | 12.21\% | 2.29\% |
| 1/24/1983 | 15.50\% | 12.21\% | 3.29\% |
| 1/25/1983 | 15.85\% | 12.19\% | 3.66\% |
| 1/27/1983 | 16.14\% | 12.17\% | 3.97\% |
| 2/1/1983 | 18.50\% | 12.13\% | 6.37\% |
| 2/4/1983 | 14.00\% | 12.10\% | 1.90\% |
| 2/10/1983 | 15.00\% | 12.06\% | 2.94\% |
| 2/21/1983 | 15.50\% | 11.98\% | 3.52\% |
| 2/22/1983 | 15.50\% | 11.97\% | 3.53\% |
| 2/23/1983 | 15.10\% | 11.96\% | 3.14\% |
| 2/23/1983 | 16.00\% | 11.96\% | 4.04\% |
| 3/2/1983 | 15.25\% | 11.89\% | 3.36\% |
| 3/9/1983 | 15.20\% | 11.82\% | 3.38\% |
| 3/15/1983 | 13.00\% | 11.77\% | 1.23\% |
| 3/18/1983 | 15.25\% | 11.73\% | 3.52\% |
| 3/23/1983 | 15.40\% | 11.69\% | 3.71\% |
| 3/24/1983 | 15.00\% | 11.67\% | 3.33\% |
| 3/29/1983 | 15.50\% | 11.63\% | 3.87\% |
| 3/30/1983 | 16.71\% | 11.61\% | 5.10\% |
| 3/31/1983 | 15.00\% | 11.59\% | 3.41\% |
| 4/4/1983 | 15.20\% | 11.58\% | 3.62\% |
| 4/8/1983 | 15.50\% | 11.51\% | 3.99\% |
| 4/11/1983 | 14.81\% | 11.49\% | 3.32\% |
| 4/19/1983 | 14.50\% | 11.38\% | 3.12\% |
| 4/20/1983 | 16.00\% | 11.36\% | 4.64\% |
| 4/29/1983 | 16.00\% | 11.24\% | 4.76\% |
| 5/1/1983 | 14.50\% | 11.24\% | 3.26\% |
| 5/9/1983 | 15.50\% | 11.15\% | 4.35\% |
| 5/11/1983 | 16.46\% | 11.12\% | 5.34\% |
| 5/12/1983 | 14.14\% | 11.11\% | 3.03\% |
| 5/18/1983 | 15.00\% | 11.05\% | 3.95\% |
| 5/23/1983 | 14.90\% | 11.01\% | 3.89\% |
| 5/23/1983 | 15.50\% | 11.01\% | 4.49\% |
| 5/25/1983 | 15.50\% | 10.98\% | 4.52\% |
| 5/27/1983 | 15.00\% | 10.96\% | 4.04\% |
| 5/31/1983 | 14.00\% | 10.95\% | 3.05\% |
| 5/31/1983 | 15.50\% | 10.95\% | 4.55\% |
| 6/2/1983 | 14.50\% | 10.93\% | 3.57\% |
| 6/17/1983 | 15.03\% | 10.84\% | 4.19\% |
| 7/1/1983 | 14.80\% | 10.78\% | 4.02\% |


| $7 / 1 / 1983$ | $14.90 \%$ | $10.78 \%$ | $4.12 \%$ |
| :---: | :---: | :---: | :---: |
| $7 / 8 / 1983$ | $16.25 \%$ | $10.76 \%$ | $5.49 \%$ |
| $7 / 13 / 1983$ | $13.20 \%$ | $10.75 \%$ | $2.45 \%$ |
| $7 / 19 / 1983$ | $15.00 \%$ | $10.74 \%$ | $4.26 \%$ |
| $7 / 19 / 1983$ | $15.10 \%$ | $10.74 \%$ | $4.36 \%$ |
| $7 / 25 / 1983$ | $16.25 \%$ | $10.73 \%$ | $5.52 \%$ |
| $7 / 28 / 1983$ | $15.90 \%$ | $10.74 \%$ | $5.16 \%$ |
| $8 / 3 / 1983$ | $16.34 \%$ | $10.75 \%$ | $5.59 \%$ |
| $8 / 3 / 1983$ | $16.50 \%$ | $10.75 \%$ | $5.75 \%$ |
| $8 / 19 / 1983$ | $15.00 \%$ | $10.80 \%$ | $4.20 \%$ |
| $8 / 22 / 1983$ | $15.50 \%$ | $10.80 \%$ | $4.70 \%$ |
| $8 / 22 / 1983$ | $16.40 \%$ | $10.80 \%$ | $5.60 \%$ |
| $8 / 31 / 1983$ | $14.75 \%$ | $10.84 \%$ | $3.91 \%$ |
| $9 / 7 / 1983$ | $15.00 \%$ | $10.86 \%$ | $4.14 \%$ |
| $9 / 14 / 1983$ | $15.78 \%$ | $10.89 \%$ | $4.89 \%$ |
| $9 / 16 / 1983$ | $15.00 \%$ | $10.90 \%$ | $4.10 \%$ |
| $9 / 19 / 1983$ | $14.50 \%$ | $10.91 \%$ | $3.59 \%$ |
| $9 / 20 / 1983$ | $16.50 \%$ | $10.91 \%$ | $5.59 \%$ |
| $9 / 28 / 1983$ | $14.50 \%$ | $10.94 \%$ | $3.56 \%$ |
| $9 / 29 / 1983$ | $15.50 \%$ | $10.95 \%$ | $4.55 \%$ |
| $9 / 30 / 1983$ | $15.25 \%$ | $10.95 \%$ | $4.30 \%$ |
| $9 / 30 / 1983$ | $16.15 \%$ | $10.95 \%$ | $5.20 \%$ |
| $10 / 4 / 1983$ | $14.80 \%$ | $10.96 \%$ | $3.84 \%$ |
| $10 / 7 / 1983$ | $16.00 \%$ | $10.97 \%$ | $5.03 \%$ |
| $10 / 13 / 1983$ | $15.52 \%$ | $10.99 \%$ | $4.53 \%$ |
| $10 / 17 / 1983$ | $15.50 \%$ | $11.00 \%$ | $4.50 \%$ |
| $10 / 18 / 1983$ | $14.50 \%$ | $11.00 \%$ | $3.50 \%$ |
| $10 / 19 / 1983$ | $16.25 \%$ | $11.01 \%$ | $5.24 \%$ |
| $10 / 19 / 1983$ | $16.50 \%$ | $11.01 \%$ | $5.49 \%$ |
| $10 / 26 / 1983$ | $15.00 \%$ | $11.04 \%$ | $3.96 \%$ |
| $10 / 27 / 1983$ | $15.20 \%$ | $11.04 \%$ | $4.16 \%$ |
| $11 / 1 / 1983$ | $16.00 \%$ | $11.06 \%$ | $4.94 \%$ |
| $11 / 9 / 1983$ | $14.90 \%$ | $11.09 \%$ | $3.81 \%$ |
| $11 / 10 / 1983$ | $14.35 \%$ | $11.10 \%$ | $3.25 \%$ |
| $11 / 23 / 1983$ | $16.00 \%$ | $11.13 \%$ | $4.87 \%$ |
| $11 / 23 / 1983$ | $16.15 \%$ | $11.13 \%$ | $5.02 \%$ |
| $11 / 30 / 1983$ | $15.00 \%$ | $11.14 \%$ | $3.86 \%$ |
| $12 / 5 / 1983$ | $15.25 \%$ | $11.15 \%$ | $4.10 \%$ |
| $12 / 6 / 1983$ | $15.07 \%$ | $11.15 \%$ | $3.92 \%$ |
| $12 / 8 / 1983$ | $15.90 \%$ | $11.16 \%$ | $4.74 \%$ |
| $12 / 9 / 1983$ | $14.75 \%$ | $11.17 \%$ | $3.58 \%$ |
| $12 / 12 / 1983$ | $14.50 \%$ | $11.17 \%$ | $3.33 \%$ |
| $12 / 15 / 1983$ | $15.56 \%$ | $11.19 \%$ | $4.37 \%$ |
| $12 / 19 / 1983$ | $14.80 \%$ | $11.21 \%$ | $3.59 \%$ |
| $12 / 20 / 1983$ | $14.69 \%$ | $11.22 \%$ | $3.47 \%$ |
| $12 / 20 / 1983$ | $16.00 \%$ | $11.22 \%$ | $4.78 \%$ |
| $12 / 20 / 1983$ | $16.25 \%$ | $11.22 \%$ | $5.03 \%$ |
| $12 / 22 / 1983$ | $14.75 \%$ | $11.23 \%$ | $3.52 \%$ |
| $12 / 22 / 1983$ | $15.75 \%$ | $11.23 \%$ | $4.52 \%$ |
| $1 / 10 / 1984$ | $14.75 \%$ | $11.27 \%$ | $3.48 \%$ |
| $1 / 12 / 1984$ | $15.90 \%$ | $11.30 \%$ | $4.60 \%$ |
| $1 / 18 / 1984$ | $15.60 \%$ | $11.31 \%$ | $4.29 \%$ |
| $1 / 19 / 1984$ | $13.75 \%$ | $11.33 \%$ | $2.42 \%$ |
| $1 / 30 / 1984$ | $16.10 \%$ | $11.33 \%$ | $4.57 \%$ |
| $1 / 31 / 1984$ | $15.25 \%$ | $11.37 \%$ | $4.73 \%$ |
| $2 / 1 / 1984$ | $14.80 \%$ | $11.37 \%$ | $3.88 \%$ |
|  |  |  | $3.42 \%$ |
| 10 |  |  |  |


| 2/6/1984 | 13.75\% | 11.40\% | 2.35\% |
| :---: | :---: | :---: | :---: |
| 2/6/1984 | 14.75\% | 11.40\% | 3.35\% |
| 2/9/1984 | 15.25\% | 11.42\% | 3.83\% |
| 2/15/1984 | 15.70\% | 11.44\% | 4.26\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/22/1984 | 14.75\% | 11.47\% | 3.28\% |
| 2/28/1984 | 14.50\% | 11.51\% | 2.99\% |
| 3/2/1984 | 14.25\% | 11.54\% | 2.71\% |
| 3/20/1984 | 16.00\% | 11.64\% | 4.36\% |
| 3/23/1984 | 15.50\% | 11.67\% | 3.83\% |
| 3/26/1984 | 14.71\% | 11.68\% | 3.03\% |
| 4/2/1984 | 15.50\% | 11.71\% | 3.79\% |
| 4/6/1984 | 14.74\% | 11.75\% | 2.99\% |
| 4/11/1984 | 15.72\% | 11.78\% | 3.94\% |
| 4/17/1984 | 15.00\% | 11.81\% | 3.19\% |
| 4/18/1984 | 16.20\% | 11.82\% | 4.38\% |
| 4/25/1984 | 14.64\% | 11.85\% | 2.79\% |
| 4/30/1984 | 14.40\% | 11.87\% | 2.53\% |
| 5/16/1984 | 14.69\% | 11.98\% | 2.71\% |
| 5/16/1984 | 15.00\% | 11.98\% | 3.02\% |
| 5/22/1984 | 14.40\% | 12.02\% | 2.38\% |
| 5/29/1984 | 15.10\% | 12.06\% | 3.04\% |
| 6/13/1984 | 15.25\% | 12.15\% | 3.10\% |
| 6/15/1984 | 15.60\% | 12.17\% | 3.43\% |
| 6/22/1984 | 16.25\% | 12.21\% | 4.04\% |
| 6/29/1984 | 15.25\% | 12.26\% | 2.99\% |
| 7/2/1984 | 13.35\% | 12.27\% | 1.08\% |
| 7/10/1984 | 16.00\% | 12.31\% | 3.69\% |
| 7/12/1984 | 16.50\% | 12.32\% | 4.18\% |
| 7/13/1984 | 16.25\% | 12.33\% | 3.92\% |
| 7/17/1984 | 14.14\% | 12.35\% | 1.79\% |
| 7/18/1984 | 15.30\% | 12.36\% | 2.94\% |
| 7/18/1984 | 15.50\% | 12.36\% | 3.14\% |
| 7/19/1984 | 14.30\% | 12.37\% | 1.93\% |
| 7/24/1984 | 16.79\% | 12.39\% | 4.40\% |
| 7/31/1984 | 16.00\% | 12.43\% | 3.57\% |
| 8/3/1984 | 14.25\% | 12.44\% | 1.81\% |
| 8/17/1984 | 14.30\% | 12.49\% | 1.81\% |
| 8/20/1984 | 15.00\% | 12.49\% | 2.51\% |
| 8/27/1984 | 16.30\% | 12.51\% | 3.79\% |
| 8/31/1984 | 15.55\% | 12.52\% | 3.03\% |
| 9/6/1984 | 16.00\% | 12.53\% | 3.47\% |
| 9/10/1984 | 14.75\% | 12.54\% | 2.21\% |
| 9/13/1984 | 15.00\% | 12.55\% | 2.45\% |
| 9/17/1984 | 17.38\% | 12.56\% | 4.82\% |
| 9/26/1984 | 14.50\% | 12.57\% | 1.93\% |
| 9/28/1984 | 15.00\% | 12.57\% | 2.43\% |
| 9/28/1984 | 16.25\% | 12.57\% | 3.68\% |
| 10/9/1984 | 14.75\% | 12.58\% | 2.17\% |
| 10/12/1984 | 15.60\% | 12.59\% | 3.01\% |
| 10/22/1984 | 15.00\% | 12.59\% | 2.41\% |
| 10/26/1984 | 16.40\% | 12.58\% | 3.82\% |
| 10/31/1984 | 16.25\% | 12.58\% | 3.67\% |
| 11/7/1984 | 15.60\% | 12.58\% | 3.02\% |
| 11/9/1984 | 16.00\% | 12.58\% | 3.42\% |
| 11/14/1984 | 15.75\% | 12.58\% | 3.17\% |


| 11/20/1984 | 15.25\% | 12.58\% | 2.67\% |
| :---: | :---: | :---: | :---: |
| 11/20/1984 | 15.92\% | 12.58\% | 3.34\% |
| 11/23/1984 | 15.00\% | 12.58\% | 2.42\% |
| 11/28/1984 | 16.15\% | 12.57\% | 3.58\% |
| 12/3/1984 | 15.80\% | 12.56\% | 3.24\% |
| 12/4/1984 | 16.50\% | 12.56\% | 3.94\% |
| 12/18/1984 | 16.40\% | 12.53\% | 3.87\% |
| 12/19/1984 | 14.75\% | 12.53\% | 2.22\% |
| 12/19/1984 | 15.00\% | 12.53\% | 2.47\% |
| 12/20/1984 | 16.00\% | 12.53\% | 3.47\% |
| 12/28/1984 | 16.00\% | 12.50\% | 3.50\% |
| 1/3/1985 | 14.75\% | 12.49\% | 2.26\% |
| 1/10/1985 | 15.75\% | 12.47\% | 3.28\% |
| 1/11/1985 | 16.30\% | 12.46\% | 3.84\% |
| 1/23/1985 | 15.80\% | 12.43\% | 3.37\% |
| 1/24/1985 | 15.82\% | 12.43\% | 3.39\% |
| 1/25/1985 | 16.75\% | 12.42\% | 4.33\% |
| 1/30/1985 | 14.90\% | 12.40\% | 2.50\% |
| 1/31/1985 | 14.75\% | 12.39\% | 2.36\% |
| 2/8/1985 | 14.47\% | 12.35\% | 2.12\% |
| 3/1/1985 | 13.84\% | 12.31\% | 1.53\% |
| 3/8/1985 | 16.85\% | 12.28\% | 4.57\% |
| 3/14/1985 | 15.50\% | 12.25\% | 3.25\% |
| 3/15/1985 | 15.62\% | 12.25\% | 3.37\% |
| 3/29/1985 | 15.62\% | 12.17\% | 3.45\% |
| 4/3/1985 | 14.60\% | 12.14\% | 2.46\% |
| 4/9/1985 | 15.50\% | 12.11\% | 3.39\% |
| 4/16/1985 | 15.70\% | 12.06\% | 3.64\% |
| 4/22/1985 | 14.00\% | 12.02\% | 1.98\% |
| 4/26/1985 | 15.50\% | 11.98\% | 3.52\% |
| 4/29/1985 | 15.00\% | 11.97\% | 3.03\% |
| 5/2/1985 | 14.68\% | 11.94\% | 2.74\% |
| 5/8/1985 | 15.62\% | 11.89\% | 3.73\% |
| 5/10/1985 | 16.50\% | 11.87\% | 4.63\% |
| 5/29/1985 | 14.61\% | 11.73\% | 2.88\% |
| 5/31/1985 | 16.00\% | 11.71\% | 4.29\% |
| 6/14/1985 | 15.50\% | 11.61\% | 3.89\% |
| 7/9/1985 | 15.00\% | 11.45\% | 3.55\% |
| 7/16/1985 | 14.50\% | 11.39\% | 3.11\% |
| 7/26/1985 | 14.50\% | 11.33\% | 3.17\% |
| 8/2/1985 | 14.80\% | 11.29\% | 3.51\% |
| 8/7/1985 | 15.00\% | 11.27\% | 3.73\% |
| 8/28/1985 | 14.25\% | 11.15\% | 3.10\% |
| 8/28/1985 | 15.50\% | 11.15\% | 4.35\% |
| 8/29/1985 | 14.50\% | 11.15\% | 3.35\% |
| 9/9/1985 | 14.60\% | 11.11\% | 3.49\% |
| 9/9/1985 | 14.90\% | 11.11\% | 3.79\% |
| 9/17/1985 | 14.90\% | 11.08\% | 3.82\% |
| 9/23/1985 | 15.00\% | 11.06\% | 3.94\% |
| 9/27/1985 | 15.50\% | 11.05\% | 4.45\% |
| 9/27/1985 | 15.80\% | 11.05\% | 4.75\% |
| 10/2/1985 | 14.00\% | 11.03\% | 2.97\% |
| 10/2/1985 | 14.75\% | 11.03\% | 3.72\% |
| 10/3/1985 | 15.25\% | 11.03\% | 4.22\% |
| 10/24/1985 | 15.40\% | 10.96\% | 4.44\% |
| 10/24/1985 | 15.82\% | 10.96\% | 4.86\% |
| 10/24/1985 | 15.85\% | 10.96\% | 4.89\% |

Schedule RBH-6
Page 11 of 29

| 10/28/1985 | 16.00\% | 10.95\% | 5.05\% |
| :---: | :---: | :---: | :---: |
| 10/29/1985 | 16.65\% | 10.94\% | 5.71\% |
| 10/31/1985 | 15.06\% | 10.93\% | 4.13\% |
| 11/4/1985 | 14.50\% | 10.92\% | 3.58\% |
| 11/7/1985 | 15.50\% | 10.90\% | 4.60\% |
| 11/8/1985 | 14.30\% | 10.89\% | 3.41\% |
| 12/12/1985 | 14.75\% | 10.73\% | 4.02\% |
| 12/18/1985 | 15.00\% | 10.69\% | 4.31\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 15.00\% | 10.67\% | 4.33\% |
| 1/24/1986 | 15.40\% | 10.41\% | 4.99\% |
| 1/31/1986 | 15.00\% | 10.35\% | 4.65\% |
| 2/5/1986 | 15.00\% | 10.32\% | 4.68\% |
| 2/5/1986 | 15.75\% | 10.32\% | 5.43\% |
| 2/10/1986 | 13.30\% | 10.29\% | 3.01\% |
| 2/11/1986 | 12.50\% | 10.28\% | 2.22\% |
| 2/14/1986 | 14.40\% | 10.24\% | 4.16\% |
| 2/18/1986 | 16.00\% | 10.23\% | 5.77\% |
| 2/24/1986 | 14.50\% | 10.18\% | 4.32\% |
| 2/26/1986 | 14.00\% | 10.15\% | 3.85\% |
| 3/5/1986 | 14.90\% | 10.08\% | 4.82\% |
| 3/11/1986 | 14.50\% | 10.02\% | 4.48\% |
| 3/12/1986 | 13.50\% | 10.00\% | 3.50\% |
| 3/27/1986 | 14.10\% | 9.86\% | 4.24\% |
| 3/31/1986 | 13.50\% | 9.84\% | 3.66\% |
| 4/1/1986 | 14.00\% | 9.83\% | 4.17\% |
| 4/2/1986 | 15.50\% | 9.81\% | 5.69\% |
| 4/4/1986 | 15.00\% | 9.78\% | 5.22\% |
| 4/14/1986 | 13.40\% | 9.69\% | 3.71\% |
| 4/23/1986 | 15.00\% | 9.57\% | 5.43\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/29/1986 | 13.90\% | 9.19\% | 4.71\% |
| 5/30/1986 | 15.10\% | 9.18\% | 5.92\% |
| 6/2/1986 | 12.81\% | 9.17\% | 3.64\% |
| 6/11/1986 | 14.00\% | 9.07\% | 4.93\% |
| 6/24/1986 | 16.63\% | 8.94\% | 7.69\% |
| 6/26/1986 | 12.00\% | 8.91\% | 3.09\% |
| 6/26/1986 | 14.75\% | 8.91\% | 5.84\% |
| 6/30/1986 | 13.00\% | 8.87\% | 4.13\% |
| 7/10/1986 | 14.34\% | 8.75\% | 5.59\% |
| 7/11/1986 | 12.75\% | 8.73\% | 4.02\% |
| 7/14/1986 | 12.60\% | 8.71\% | 3.89\% |
| 7/17/1986 | 12.40\% | 8.66\% | 3.74\% |
| 7/25/1986 | 14.25\% | 8.57\% | 5.68\% |
| 8/6/1986 | 13.50\% | 8.44\% | 5.06\% |
| 8/14/1986 | 13.50\% | 8.35\% | 5.15\% |
| 9/16/1986 | 12.75\% | 8.06\% | 4.69\% |
| 9/19/1986 | 13.25\% | 8.03\% | 5.22\% |
| 10/1/1986 | 14.00\% | 7.95\% | 6.05\% |
| 10/3/1986 | 13.40\% | 7.93\% | 5.47\% |
| 10/31/1986 | 13.50\% | 7.77\% | 5.73\% |
| 11/5/1986 | 13.00\% | 7.75\% | 5.25\% |
| 12/3/1986 | 12.90\% | 7.58\% | 5.32\% |
| 12/4/1986 | 14.44\% | 7.58\% | 6.86\% |
| 12/16/1986 | 13.60\% | 7.52\% | 6.08\% |


| 12/22/1986 | 13.80\% | 7.51\% | 6.29\% |
| :---: | :---: | :---: | :---: |
| 12/30/1986 | 13.00\% | 7.49\% | 5.51\% |
| 1/2/1987 | 13.00\% | 7.49\% | 5.51\% |
| 1/12/1987 | 12.40\% | 7.47\% | 4.93\% |
| 1/27/1987 | 12.71\% | 7.46\% | 5.25\% |
| 3/2/1987 | 12.47\% | 7.47\% | 5.00\% |
| 3/3/1987 | 13.60\% | 7.47\% | 6.13\% |
| 3/4/1987 | 12.38\% | 7.47\% | 4.91\% |
| 3/10/1987 | 13.50\% | 7.47\% | 6.03\% |
| 3/13/1987 | 13.00\% | 7.47\% | 5.53\% |
| 3/31/1987 | 13.00\% | 7.46\% | 5.54\% |
| 4/6/1987 | 13.00\% | 7.47\% | 5.53\% |
| 4/14/1987 | 12.50\% | 7.49\% | 5.01\% |
| 4/16/1987 | 14.50\% | 7.50\% | 7.00\% |
| 4/27/1987 | 12.00\% | 7.54\% | 4.46\% |
| 5/5/1987 | 12.85\% | 7.58\% | 5.27\% |
| 5/12/1987 | 12.65\% | 7.62\% | 5.03\% |
| 5/28/1987 | 13.50\% | 7.70\% | 5.80\% |
| 6/15/1987 | 13.20\% | 7.78\% | 5.42\% |
| 6/29/1987 | 15.00\% | 7.83\% | 7.17\% |
| 6/30/1987 | 12.50\% | 7.84\% | 4.66\% |
| 7/8/1987 | 12.00\% | 7.86\% | 4.14\% |
| 7/10/1987 | 12.90\% | 7.86\% | 5.04\% |
| 7/15/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 15.00\% | 7.88\% | 7.12\% |
| 7/27/1987 | 13.00\% | 7.92\% | 5.08\% |
| 7/27/1987 | 13.40\% | 7.92\% | 5.48\% |
| 7/27/1987 | 13.50\% | 7.92\% | 5.58\% |
| 7/31/1987 | 12.98\% | 7.95\% | 5.03\% |
| 8/26/1987 | 12.63\% | 8.06\% | 4.57\% |
| 8/26/1987 | 12.75\% | 8.06\% | 4.69\% |
| 8/27/1987 | 13.25\% | 8.06\% | 5.19\% |
| 9/9/1987 | 13.00\% | 8.14\% | 4.86\% |
| 9/30/1987 | 12.75\% | 8.31\% | 4.44\% |
| 9/30/1987 | 13.00\% | 8.31\% | 4.69\% |
| 10/2/1987 | 11.50\% | 8.33\% | 3.17\% |
| 10/15/1987 | 13.00\% | 8.43\% | 4.57\% |
| 11/2/1987 | 13.00\% | 8.55\% | 4.45\% |
| 11/19/1987 | 13.00\% | 8.64\% | 4.36\% |
| 11/30/1987 | 12.00\% | 8.68\% | 3.32\% |
| 12/3/1987 | 14.20\% | 8.70\% | 5.50\% |
| 12/15/1987 | 13.25\% | 8.77\% | 4.48\% |
| 12/16/1987 | 13.50\% | 8.78\% | 4.72\% |
| 12/16/1987 | 13.72\% | 8.78\% | 4.94\% |
| 12/17/1987 | 11.75\% | 8.79\% | 2.96\% |
| 12/18/1987 | 13.50\% | 8.80\% | 4.70\% |
| 12/21/1987 | 12.01\% | 8.81\% | 3.20\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.75\% | 8.81\% | 3.94\% |
| 12/22/1987 | 13.00\% | 8.81\% | 4.19\% |
| 1/20/1988 | 13.80\% | 8.94\% | 4.86\% |
| 1/26/1988 | 13.90\% | 8.95\% | 4.95\% |
| 1/29/1988 | 13.20\% | 8.96\% | 4.24\% |
| 2/4/1988 | 12.60\% | 8.96\% | 3.64\% |
| 3/1/1988 | 11.56\% | 8.94\% | 2.62\% |


| 3/23/1988 | 12.87\% | 8.92\% | 3.95\% |
| :---: | :---: | :---: | :---: |
| 3/24/1988 | 11.24\% | 8.92\% | 2.32\% |
| 3/30/1988 | 12.72\% | 8.92\% | 3.80\% |
| 4/1/1988 | 12.50\% | 8.92\% | 3.58\% |
| 4/7/1988 | 13.25\% | 8.93\% | 4.32\% |
| 4/25/1988 | 10.96\% | 8.96\% | 2.00\% |
| 5/3/1988 | 12.91\% | 8.97\% | 3.94\% |
| 5/11/1988 | 13.50\% | 8.99\% | 4.51\% |
| 5/16/1988 | 13.00\% | 8.99\% | 4.01\% |
| 6/30/1988 | 12.75\% | 9.00\% | 3.75\% |
| 7/1/1988 | 12.75\% | 8.99\% | 3.76\% |
| 7/20/1988 | 13.40\% | 8.96\% | 4.44\% |
| 8/5/1988 | 12.75\% | 8.92\% | 3.83\% |
| 8/23/1988 | 11.70\% | 8.93\% | 2.77\% |
| 8/29/1988 | 12.75\% | 8.94\% | 3.81\% |
| 8/30/1988 | 13.50\% | 8.94\% | 4.56\% |
| 9/8/1988 | 12.60\% | 8.95\% | 3.65\% |
| 10/13/1988 | 13.10\% | 8.93\% | 4.17\% |
| 12/19/1988 | 13.00\% | 9.02\% | 3.98\% |
| 12/20/1988 | 12.25\% | 9.02\% | 3.23\% |
| 12/20/1988 | 13.00\% | 9.02\% | 3.98\% |
| 12/21/1988 | 12.90\% | 9.02\% | 3.88\% |
| 12/27/1988 | 13.00\% | 9.03\% | 3.97\% |
| 12/28/1988 | 13.10\% | 9.03\% | 4.07\% |
| 12/30/1988 | 13.40\% | 9.04\% | 4.36\% |
| 1/27/1989 | 13.00\% | 9.05\% | 3.95\% |
| 1/31/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/17/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/20/1989 | 12.40\% | 9.05\% | 3.35\% |
| 3/1/1989 | 12.76\% | 9.05\% | 3.71\% |
| 3/8/1989 | 13.00\% | 9.05\% | 3.95\% |
| 3/30/1989 | 14.00\% | 9.05\% | 4.95\% |
| 4/5/1989 | 14.20\% | 9.05\% | 5.15\% |
| 4/18/1989 | 13.00\% | 9.05\% | 3.95\% |
| 5/5/1989 | 12.40\% | 9.05\% | 3.35\% |
| 6/2/1989 | 13.20\% | 9.00\% | 4.20\% |
| 6/8/1989 | 13.50\% | 8.98\% | 4.52\% |
| 6/27/1989 | 13.25\% | 8.91\% | 4.34\% |
| 6/30/1989 | 13.00\% | 8.90\% | 4.10\% |
| 8/14/1989 | 12.50\% | 8.77\% | 3.73\% |
| 9/28/1989 | 12.25\% | 8.63\% | 3.62\% |
| 10/24/1989 | 12.50\% | 8.54\% | 3.96\% |
| 11/9/1989 | 13.00\% | 8.49\% | 4.51\% |
| 12/15/1989 | 13.00\% | 8.34\% | 4.66\% |
| 12/20/1989 | 12.90\% | 8.32\% | 4.58\% |
| 12/21/1989 | 12.90\% | 8.31\% | 4.59\% |
| 12/27/1989 | 12.50\% | 8.29\% | 4.21\% |
| 12/27/1989 | 13.00\% | 8.29\% | 4.71\% |
| 1/10/1990 | 12.80\% | 8.24\% | 4.56\% |
| 1/11/1990 | 12.90\% | 8.24\% | 4.66\% |
| 1/17/1990 | 12.80\% | 8.22\% | 4.58\% |
| 1/26/1990 | 12.00\% | 8.20\% | 3.80\% |
| 2/9/1990 | 12.10\% | 8.17\% | 3.93\% |
| 2/24/1990 | 12.86\% | 8.15\% | 4.71\% |
| 3/30/1990 | 12.90\% | 8.16\% | 4.74\% |
| 4/4/1990 | 15.76\% | 8.17\% | 7.59\% |
| 4/12/1990 | 12.52\% | 8.18\% | 4.34\% |

Schedule RBH-6
Page 14 of 29

| 4/19/1990 | 12.75\% | 8.20\% | 4.55\% |
| :---: | :---: | :---: | :---: |
| 5/21/1990 | 12.10\% | 8.28\% | 3.82\% |
| 5/29/1990 | 12.40\% | 8.30\% | 4.10\% |
| 5/31/1990 | 12.00\% | 8.30\% | 3.70\% |
| 6/4/1990 | 12.90\% | 8.30\% | 4.60\% |
| 6/6/1990 | 12.25\% | 8.31\% | 3.94\% |
| 6/15/1990 | 13.20\% | 8.32\% | 4.88\% |
| 6/20/1990 | 12.92\% | 8.32\% | 4.60\% |
| 6/27/1990 | 12.90\% | 8.33\% | 4.57\% |
| 6/29/1990 | 12.50\% | 8.33\% | 4.17\% |
| 7/6/1990 | 12.10\% | 8.34\% | 3.76\% |
| 7/6/1990 | 12.35\% | 8.34\% | 4.01\% |
| 8/10/1990 | 12.55\% | 8.41\% | 4.14\% |
| 8/16/1990 | 13.21\% | 8.43\% | 4.78\% |
| 8/22/1990 | 13.10\% | 8.45\% | 4.65\% |
| 8/24/1990 | 13.00\% | 8.46\% | 4.54\% |
| 9/26/1990 | 11.45\% | 8.59\% | 2.86\% |
| 10/2/1990 | 13.00\% | 8.61\% | 4.39\% |
| 10/5/1990 | 12.84\% | 8.62\% | 4.22\% |
| 10/19/1990 | 13.00\% | 8.67\% | 4.33\% |
| 10/25/1990 | 12.30\% | 8.68\% | 3.62\% |
| 11/21/1990 | 12.70\% | 8.69\% | 4.01\% |
| 12/13/1990 | 12.30\% | 8.67\% | 3.63\% |
| 12/17/1990 | 12.87\% | 8.67\% | 4.20\% |
| 12/18/1990 | 13.10\% | 8.67\% | 4.43\% |
| 12/19/1990 | 12.00\% | 8.66\% | 3.34\% |
| 12/20/1990 | 12.75\% | 8.66\% | 4.09\% |
| 12/21/1990 | 12.50\% | 8.66\% | 3.84\% |
| 12/27/1990 | 12.79\% | 8.66\% | 4.13\% |
| 1/2/1991 | 13.10\% | 8.65\% | 4.45\% |
| 1/4/1991 | 12.50\% | 8.65\% | 3.85\% |
| 1/15/1991 | 12.75\% | 8.64\% | 4.11\% |
| 1/25/1991 | 11.70\% | 8.63\% | 3.07\% |
| 2/4/1991 | 12.50\% | 8.60\% | 3.90\% |
| 2/7/1991 | 12.50\% | 8.59\% | 3.91\% |
| 2/12/1991 | 13.00\% | 8.58\% | 4.43\% |
| 2/14/1991 | 12.72\% | 8.57\% | 4.15\% |
| 2/22/1991 | 12.80\% | 8.55\% | 4.25\% |
| 3/6/1991 | 13.10\% | 8.53\% | 4.57\% |
| 3/8/1991 | 12.30\% | 8.52\% | 3.78\% |
| 3/8/1991 | 13.00\% | 8.52\% | 4.48\% |
| 4/22/1991 | 13.00\% | 8.49\% | 4.51\% |
| 5/7/1991 | 13.50\% | 8.47\% | 5.03\% |
| 5/13/1991 | 13.25\% | 8.47\% | 4.78\% |
| 5/30/1991 | 12.75\% | 8.44\% | 4.31\% |
| 6/12/1991 | 12.00\% | 8.41\% | 3.59\% |
| 6/25/1991 | 11.70\% | 8.39\% | 3.31\% |
| 6/28/1991 | 12.50\% | 8.38\% | 4.12\% |
| 7/1/1991 | 12.00\% | 8.38\% | 3.62\% |
| 7/3/1991 | 12.50\% | 8.37\% | 4.13\% |
| 7/19/1991 | 12.10\% | 8.34\% | 3.76\% |
| 8/1/1991 | 12.90\% | 8.32\% | 4.58\% |
| 8/16/1991 | 13.20\% | 8.29\% | 4.91\% |
| 9/27/1991 | 12.50\% | 8.23\% | 4.27\% |
| 9/30/1991 | 12.25\% | 8.23\% | 4.02\% |
| 10/17/1991 | 13.00\% | 8.20\% | 4.80\% |
| 10/23/1991 | 12.50\% | 8.20\% | 4.30\% |

Schedule RBH-6
Page 15 of 29

| $10 / 23 / 1991$ | $12.55 \%$ | $8.20 \%$ | $4.35 \%$ |
| :---: | :---: | :---: | :---: |
| $10 / 31 / 1991$ | $11.80 \%$ | $8.19 \%$ | $3.61 \%$ |
| $11 / 1 / 1991$ | $12.00 \%$ | $8.19 \%$ | $3.81 \%$ |
| $11 / 5 / 1991$ | $12.25 \%$ | $8.19 \%$ | $4.06 \%$ |
| $11 / 12 / 1991$ | $12.50 \%$ | $8.18 \%$ | $4.32 \%$ |
| $11 / 12 / 1991$ | $13.25 \%$ | $8.18 \%$ | $5.07 \%$ |
| $11 / 25 / 1991$ | $12.40 \%$ | $8.18 \%$ | $4.22 \%$ |
| $11 / 26 / 1991$ | $11.60 \%$ | $8.18 \%$ | $3.42 \%$ |
| $11 / 26 / 1991$ | $12.50 \%$ | $8.18 \%$ | $4.32 \%$ |
| $11 / 27 / 1991$ | $12.10 \%$ | $8.18 \%$ | $3.92 \%$ |
| $12 / 18 / 1991$ | $12.25 \%$ | $8.15 \%$ | $4.10 \%$ |
| $12 / 19 / 1991$ | $12.60 \%$ | $8.15 \%$ | $4.45 \%$ |
| $12 / 19 / 1991$ | $12.80 \%$ | $8.15 \%$ | $4.65 \%$ |
| $12 / 20 / 1991$ | $12.65 \%$ | $8.14 \%$ | $4.51 \%$ |
| $1 / 9 / 1992$ | $12.80 \%$ | $8.09 \%$ | $4.71 \%$ |
| $1 / 16 / 1992$ | $12.75 \%$ | $8.07 \%$ | $4.68 \%$ |
| $1 / 21 / 1992$ | $12.00 \%$ | $8.06 \%$ | $3.94 \%$ |
| $1 / 22 / 1992$ | $13.00 \%$ | $8.06 \%$ | $4.94 \%$ |
| $1 / 27 / 1992$ | $12.65 \%$ | $8.05 \%$ | $4.60 \%$ |
| $1 / 31 / 1992$ | $12.00 \%$ | $8.04 \%$ | $3.96 \%$ |
| $2 / 11 / 1992$ | $12.40 \%$ | $8.03 \%$ | $4.37 \%$ |
| $2 / 25 / 1992$ | $12.50 \%$ | $8.01 \%$ | $4.49 \%$ |
| $3 / 16 / 1992$ | $11.43 \%$ | $7.98 \%$ | $3.45 \%$ |
| $3 / 18 / 1992$ | $12.28 \%$ | $7.98 \%$ | $4.30 \%$ |
| $4 / 2 / 1992$ | $12.10 \%$ | $7.95 \%$ | $4.15 \%$ |
| $4 / 9 / 1992$ | $11.45 \%$ | $7.94 \%$ | $3.51 \%$ |
| $4 / 10 / 1992$ | $11.50 \%$ | $7.93 \%$ | $3.57 \%$ |
| $4 / 14 / 1992$ | $11.50 \%$ | $7.93 \%$ | $3.57 \%$ |
| $5 / 5 / 1992$ | $11.50 \%$ | $7.89 \%$ | $3.61 \%$ |
| $5 / 12 / 1992$ | $11.87 \%$ | $7.88 \%$ | $3.99 \%$ |
| $5 / 12 / 1992$ | $12.46 \%$ | $7.88 \%$ | $4.58 \%$ |
| $6 / 1 / 1992$ | $12.30 \%$ | $7.87 \%$ | $4.43 \%$ |
| $6 / 12 / 1992$ | $10.90 \%$ | $7.86 \%$ | $3.04 \%$ |
| $6 / 26 / 1992$ | $12.35 \%$ | $7.85 \%$ | $4.50 \%$ |
| $6 / 29 / 1992$ | $11.00 \%$ | $7.85 \%$ | $3.15 \%$ |
| $6 / 30 / 1992$ | $13.00 \%$ | $7.85 \%$ | $5.15 \%$ |
| $7 / 13 / 1992$ | $11.90 \%$ | $7.84 \%$ | $4.06 \%$ |
| $7 / 13 / 1992$ | $13.50 \%$ | $7.84 \%$ | $5.66 \%$ |
| $7 / 22 / 1992$ | $11.20 \%$ | $7.83 \%$ | $3.37 \%$ |
| $8 / 3 / 1992$ | $12.00 \%$ | $7.81 \%$ | $4.19 \%$ |
| $8 / 6 / 1992$ | $12.50 \%$ | $7.80 \%$ | $4.70 \%$ |
| $9 / 22 / 1992$ | $12.00 \%$ | $7.71 \%$ | $4.29 \%$ |
| $9 / 28 / 1992$ | $11.40 \%$ | $7.71 \%$ | $3.69 \%$ |
| $9 / 30 / 1992$ | $11.75 \%$ | $7.70 \%$ | $4.05 \%$ |
| $10 / 2 / 1992$ | $13.00 \%$ | $7.70 \%$ | $5.30 \%$ |
| $10 / 12 / 1992$ | $12.20 \%$ | $7.70 \%$ | $4.50 \%$ |
| $10 / 16 / 1992$ | $13.16 \%$ | $7.70 \%$ | $5.46 \%$ |
| $10 / 30 / 1992$ | $11.75 \%$ | $7.71 \%$ | $4.04 \%$ |
| $11 / 3 / 1992$ | $12.00 \%$ | $7.71 \%$ | $4.29 \%$ |
| $12 / 3 / 1992$ | $11.85 \%$ | $7.68 \%$ | $4.17 \%$ |
| $12 / 15 / 1992$ | $11.00 \%$ | $7.66 \%$ | $3.34 \%$ |
| $12 / 16 / 1992$ | $11.90 \%$ | $7.66 \%$ | $4.24 \%$ |
| $12 / 16 / 1992$ | $12.40 \%$ | $7.66 \%$ | $4.74 \%$ |
| $12 / 17 / 1992$ | $12.00 \%$ | $7.66 \%$ | $4.34 \%$ |
| $12 / 22 / 1992$ | $12.30 \%$ | $7.65 \%$ | $4.65 \%$ |
| $12 / 22 / 1992$ | $12.40 \%$ | $7.65 \%$ | $4.75 \%$ |
| $12 / 29 / 1992$ | $12.25 \%$ | $7.63 \%$ | $4.62 \%$ |
|  |  |  |  |
| 10 |  |  |  |

Schedule RBH-6
Page 16 of 29

| 12/30/1992 | 12.00\% | 7.63\% | 4.37\% |
| :---: | :---: | :---: | :---: |
| 12/31/1992 | 11.90\% | 7.63\% | 4.27\% |
| 1/12/1993 | 12.00\% | 7.61\% | 4.39\% |
| 1/21/1993 | 11.25\% | 7.59\% | 3.66\% |
| 2/2/1993 | 11.40\% | 7.56\% | 3.84\% |
| 2/15/1993 | 12.30\% | 7.52\% | 4.78\% |
| 2/24/1993 | 11.90\% | 7.49\% | 4.41\% |
| 2/26/1993 | 11.80\% | 7.48\% | 4.32\% |
| 2/26/1993 | 12.20\% | 7.48\% | 4.72\% |
| 4/23/1993 | 11.75\% | 7.29\% | 4.46\% |
| 5/11/1993 | 11.75\% | 7.25\% | 4.50\% |
| 5/14/1993 | 11.50\% | 7.24\% | 4.26\% |
| 5/25/1993 | 11.50\% | 7.23\% | 4.27\% |
| 5/28/1993 | 11.00\% | 7.22\% | 3.78\% |
| 6/3/1993 | 12.00\% | 7.21\% | 4.79\% |
| 6/16/1993 | 11.50\% | 7.19\% | 4.31\% |
| 6/18/1993 | 12.10\% | 7.18\% | 4.92\% |
| 6/25/1993 | 11.67\% | 7.17\% | 4.50\% |
| 7/21/1993 | 11.38\% | 7.10\% | 4.28\% |
| 7/23/1993 | 10.46\% | 7.09\% | 3.37\% |
| 8/24/1993 | 11.50\% | 6.96\% | 4.54\% |
| 9/21/1993 | 10.50\% | 6.81\% | 3.69\% |
| 9/29/1993 | 11.47\% | 6.77\% | 4.70\% |
| 9/30/1993 | 11.60\% | 6.76\% | 4.84\% |
| 11/2/1993 | 10.80\% | 6.60\% | 4.20\% |
| 11/12/1993 | 12.00\% | 6.57\% | 5.43\% |
| 11/26/1993 | 11.00\% | 6.52\% | 4.48\% |
| 12/14/1993 | 10.55\% | 6.48\% | 4.07\% |
| 12/16/1993 | 10.60\% | 6.48\% | 4.12\% |
| 12/21/1993 | 11.30\% | 6.47\% | 4.83\% |
| 1/4/1994 | 10.07\% | 6.44\% | 3.63\% |
| 1/13/1994 | 11.00\% | 6.42\% | 4.58\% |
| 1/21/1994 | 11.00\% | 6.40\% | 4.60\% |
| 1/28/1994 | 11.35\% | 6.39\% | 4.96\% |
| 2/3/1994 | 11.40\% | 6.38\% | 5.02\% |
| 2/17/1994 | 10.60\% | 6.36\% | 4.24\% |
| 2/25/1994 | 11.25\% | 6.35\% | 4.90\% |
| 2/25/1994 | 12.00\% | 6.35\% | 5.65\% |
| 3/1/1994 | 11.00\% | 6.35\% | 4.65\% |
| 3/4/1994 | 11.00\% | 6.35\% | 4.65\% |
| 4/25/1994 | 11.00\% | 6.41\% | 4.59\% |
| 5/10/1994 | 11.75\% | 6.45\% | 5.30\% |
| 5/13/1994 | 10.50\% | 6.46\% | 4.04\% |
| 6/3/1994 | 11.00\% | 6.54\% | 4.46\% |
| 6/27/1994 | 11.40\% | 6.65\% | 4.75\% |
| 8/5/1994 | 12.75\% | 6.88\% | 5.87\% |
| 10/31/1994 | 10.00\% | 7.33\% | 2.67\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/18/1994 | 11.20\% | 7.45\% | 3.75\% |
| 11/22/1994 | 11.60\% | 7.47\% | 4.13\% |
| 11/28/1994 | 11.06\% | 7.49\% | 3.57\% |
| 12/8/1994 | 11.50\% | 7.54\% | 3.96\% |
| 12/8/1994 | 11.70\% | 7.54\% | 4.16\% |
| 12/14/1994 | 10.95\% | 7.56\% | 3.39\% |
| 12/15/1994 | 11.50\% | 7.57\% | 3.93\% |
| 12/19/1994 | 11.50\% | 7.58\% | 3.92\% |

Schedule RBH-6
Page 17 of 29

| 12/28/1994 | 12.15\% | 7.61\% | 4.54\% |
| :---: | :---: | :---: | :---: |
| 1/9/1995 | 12.28\% | 7.64\% | 4.64\% |
| 1/31/1995 | 11.00\% | 7.69\% | 3.31\% |
| 2/10/1995 | 12.60\% | 7.70\% | 4.90\% |
| 2/17/1995 | 11.90\% | 7.70\% | 4.20\% |
| 3/9/1995 | 11.50\% | 7.71\% | 3.79\% |
| 3/20/1995 | 12.00\% | 7.72\% | 4.28\% |
| 3/23/1995 | 12.81\% | 7.72\% | 5.09\% |
| 3/29/1995 | 11.60\% | 7.72\% | 3.88\% |
| 4/6/1995 | 11.10\% | 7.71\% | 3.39\% |
| 4/7/1995 | 11.00\% | 7.71\% | 3.29\% |
| 4/19/1995 | 11.00\% | 7.70\% | 3.30\% |
| 5/12/1995 | 11.63\% | 7.68\% | 3.95\% |
| 5/25/1995 | 11.20\% | 7.65\% | 3.55\% |
| 6/9/1995 | 11.25\% | 7.60\% | 3.65\% |
| 6/21/1995 | 12.25\% | 7.56\% | 4.69\% |
| 6/30/1995 | 11.10\% | 7.52\% | 3.58\% |
| 9/11/1995 | 11.30\% | 7.20\% | 4.10\% |
| 9/27/1995 | 11.30\% | 7.12\% | 4.18\% |
| 9/27/1995 | 11.50\% | 7.12\% | 4.38\% |
| 9/27/1995 | 11.75\% | 7.12\% | 4.63\% |
| 9/29/1995 | 11.00\% | 7.11\% | 3.89\% |
| 11/9/1995 | 11.38\% | 6.90\% | 4.48\% |
| 11/9/1995 | 12.36\% | 6.90\% | 5.46\% |
| 11/17/1995 | 11.00\% | 6.86\% | 4.14\% |
| 12/4/1995 | 11.35\% | 6.78\% | 4.57\% |
| 12/11/1995 | 11.40\% | 6.74\% | 4.66\% |
| 12/20/1995 | 11.60\% | 6.70\% | 4.90\% |
| 12/27/1995 | 12.00\% | 6.66\% | 5.34\% |
| 2/5/1996 | 12.25\% | 6.48\% | 5.77\% |
| 3/29/1996 | 10.67\% | 6.42\% | 4.25\% |
| 4/8/1996 | 11.00\% | 6.42\% | 4.58\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/24/1996 | 11.25\% | 6.43\% | 4.82\% |
| 4/30/1996 | 11.00\% | 6.43\% | 4.57\% |
| 5/13/1996 | 11.00\% | 6.44\% | 4.56\% |
| 5/23/1996 | 11.25\% | 6.43\% | 4.82\% |
| 6/25/1996 | 11.25\% | 6.48\% | 4.77\% |
| 6/27/1996 | 11.20\% | 6.48\% | 4.72\% |
| 8/12/1996 | 10.40\% | 6.57\% | 3.83\% |
| 9/27/1996 | 11.00\% | 6.71\% | 4.29\% |
| 10/16/1996 | 12.25\% | 6.76\% | 5.49\% |
| 11/5/1996 | 11.00\% | 6.81\% | 4.19\% |
| 11/26/1996 | 11.30\% | 6.83\% | 4.47\% |
| 12/18/1996 | 11.75\% | 6.83\% | 4.92\% |
| 12/31/1996 | 11.50\% | 6.83\% | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 3.87\% |
| 2/13/1997 | 11.80\% | 6.82\% | 4.98\% |
| 2/20/1997 | 11.80\% | 6.82\% | 4.98\% |
| 3/31/1997 | 10.02\% | 6.80\% | 3.22\% |
| 4/2/1997 | 11.65\% | 6.80\% | 4.85\% |
| 4/28/1997 | 11.50\% | 6.81\% | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 5.23\% |
| 12/12/1997 | 11.00\% | 6.60\% | 4.40\% |
| 12/23/1997 | 11.12\% | 6.57\% | 4.55\% |

Schedule RBH-6
Page 18 of 29

| 2/2/1998 | 12.75\% | 6.39\% | 6.36\% |
| :---: | :---: | :---: | :---: |
| 3/2/1998 | 11.25\% | 6.29\% | 4.96\% |
| 3/6/1998 | 10.75\% | 6.27\% | 4.48\% |
| 3/20/1998 | 10.50\% | 6.22\% | 4.28\% |
| 4/30/1998 | 12.20\% | 6.12\% | 6.08\% |
| 7/10/1998 | 11.40\% | 5.94\% | 5.46\% |
| 9/15/1998 | 11.90\% | 5.78\% | 6.12\% |
| 11/30/1998 | 12.60\% | 5.58\% | 7.02\% |
| 12/10/1998 | 12.20\% | 5.54\% | 6.66\% |
| 12/17/1998 | 12.10\% | 5.52\% | 6.58\% |
| 2/5/1999 | 10.30\% | 5.38\% | 4.92\% |
| 3/4/1999 | 10.50\% | 5.34\% | 5.16\% |
| 4/6/1999 | 10.94\% | 5.32\% | 5.62\% |
| 7/29/1999 | 10.75\% | 5.52\% | 5.23\% |
| 9/23/1999 | 10.75\% | 5.70\% | 5.05\% |
| 11/17/1999 | 11.10\% | 5.90\% | 5.20\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 2/17/2000 | 10.60\% | 6.17\% | 4.43\% |
| 3/28/2000 | 11.25\% | 6.20\% | 5.05\% |
| 5/24/2000 | 11.00\% | 6.18\% | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 6.04\% |
| 9/29/2000 | 11.16\% | 6.03\% | 5.13\% |
| 11/28/2000 | 12.90\% | 5.89\% | 7.01\% |
| 11/30/2000 | 12.10\% | 5.88\% | 6.22\% |
| 1/23/2001 | 11.25\% | 5.79\% | 5.46\% |
| 2/8/2001 | 11.50\% | 5.77\% | 5.73\% |
| 5/8/2001 | 10.75\% | 5.62\% | 5.13\% |
| 6/26/2001 | 11.00\% | 5.62\% | 5.38\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/31/2001 | 11.00\% | 5.59\% | 5.41\% |
| 8/31/2001 | 10.50\% | 5.56\% | 4.94\% |
| 9/7/2001 | 10.75\% | 5.55\% | 5.20\% |
| 9/10/2001 | 11.00\% | 5.55\% | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 4.45\% |
| 10/24/2001 | 10.30\% | 5.54\% | 4.76\% |
| 11/28/2001 | 10.60\% | 5.49\% | 5.11\% |
| 12/3/2001 | 12.88\% | 5.49\% | 7.39\% |
| 12/20/2001 | 12.50\% | 5.50\% | 7.00\% |
| 1/22/2002 | 10.00\% | 5.50\% | 4.50\% |
| 3/27/2002 | 10.10\% | 5.45\% | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 6.53\% |
| 6/18/2002 | 11.16\% | 5.48\% | 5.68\% |
| 6/20/2002 | 11.00\% | 5.48\% | 5.52\% |
| 6/20/2002 | 12.30\% | 5.48\% | 6.82\% |
| 7/15/2002 | 11.00\% | 5.48\% | 5.52\% |
| 9/12/2002 | 12.30\% | 5.45\% | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 5.04\% |
| 12/4/2002 | 11.55\% | 5.29\% | 6.26\% |
| 12/13/2002 | 11.75\% | 5.27\% | 6.48\% |
| 12/20/2002 | 11.40\% | 5.25\% | 6.15\% |
| 1/8/2003 | 11.10\% | 5.19\% | 5.91\% |
| 1/31/2003 | 12.45\% | 5.13\% | 7.32\% |
| 2/28/2003 | 12.30\% | 5.05\% | 7.25\% |

Schedule RBH-6
Page 19 of 29

| 3/6/2003 | 10.75\% | 5.03\% | 5.72\% |
| :---: | :---: | :---: | :---: |
| 3/7/2003 | 9.96\% | 5.02\% | 4.94\% |
| 3/20/2003 | 12.00\% | 4.98\% | 7.02\% |
| 4/3/2003 | 12.00\% | 4.96\% | 7.04\% |
| 4/15/2003 | 11.15\% | 4.94\% | 6.21\% |
| 6/25/2003 | 10.75\% | 4.79\% | 5.96\% |
| 6/26/2003 | 10.75\% | 4.79\% | 5.96\% |
| 7/9/2003 | 9.75\% | 4.79\% | 4.96\% |
| 7/16/2003 | 9.75\% | 4.79\% | 4.96\% |
| 7/25/2003 | 9.50\% | 4.80\% | 4.70\% |
| 8/26/2003 | 10.50\% | 4.83\% | 5.67\% |
| 12/17/2003 | 9.85\% | 4.94\% | 4.91\% |
| 12/17/2003 | 10.70\% | 4.94\% | 5.76\% |
| 12/18/2003 | 11.50\% | 4.94\% | 6.56\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/23/2003 | 10.50\% | 4.94\% | 5.56\% |
| 1/13/2004 | 12.00\% | 4.95\% | 7.05\% |
| 3/2/2004 | 10.75\% | 4.99\% | 5.76\% |
| 3/26/2004 | 10.25\% | 5.02\% | 5.23\% |
| 4/5/2004 | 11.25\% | 5.03\% | 6.22\% |
| 5/18/2004 | 10.50\% | 5.07\% | 5.43\% |
| 5/25/2004 | 10.25\% | 5.08\% | 5.17\% |
| 5/27/2004 | 10.25\% | 5.08\% | 5.17\% |
| 6/2/2004 | 11.22\% | 5.08\% | 6.14\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 7/16/2004 | 11.60\% | 5.11\% | 6.49\% |
| 8/25/2004 | 10.25\% | 5.10\% | 5.15\% |
| 9/9/2004 | 10.40\% | 5.10\% | 5.30\% |
| 11/9/2004 | 10.50\% | 5.07\% | 5.43\% |
| 11/23/2004 | 11.00\% | 5.06\% | 5.94\% |
| 12/14/2004 | 10.97\% | 5.07\% | 5.90\% |
| 12/21/2004 | 11.25\% | 5.07\% | 6.18\% |
| 12/21/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/22/2004 | 10.70\% | 5.07\% | 5.63\% |
| 12/22/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/29/2004 | 9.85\% | 5.07\% | 4.78\% |
| 1/6/2005 | 10.70\% | 5.08\% | 5.62\% |
| 2/18/2005 | 10.30\% | 4.98\% | 5.32\% |
| 2/25/2005 | 10.50\% | 4.96\% | 5.54\% |
| 3/10/2005 | 11.00\% | 4.93\% | 6.07\% |
| 3/24/2005 | 10.30\% | 4.90\% | 5.40\% |
| 4/4/2005 | 10.00\% | 4.88\% | 5.12\% |
| 4/7/2005 | 10.25\% | 4.87\% | 5.38\% |
| 5/18/2005 | 10.25\% | 4.78\% | 5.47\% |
| 5/25/2005 | 10.75\% | 4.76\% | 5.99\% |
| 5/26/2005 | 9.75\% | 4.76\% | 4.99\% |
| 6/1/2005 | 9.75\% | 4.75\% | 5.00\% |
| 7/19/2005 | 11.50\% | 4.64\% | 6.86\% |
| 8/5/2005 | 11.75\% | 4.62\% | 7.13\% |
| 8/15/2005 | 10.13\% | 4.61\% | 5.52\% |
| 9/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 10/4/2005 | 10.75\% | 4.54\% | 6.21\% |
| 12/12/2005 | 11.00\% | 4.55\% | 6.45\% |
| 12/13/2005 | 10.75\% | 4.55\% | 6.20\% |
| 12/21/2005 | 10.29\% | 4.54\% | 5.75\% |

Schedule RBH-6
Page 20 of 29

| 12/21/2005 | 10.40\% | 4.54\% | 5.86\% |
| :---: | :---: | :---: | :---: |
| 12/22/2005 | 11.00\% | 4.54\% | 6.46\% |
| 12/22/2005 | 11.15\% | 4.54\% | 6.61\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 1/5/2006 | 11.00\% | 4.53\% | 6.47\% |
| 1/27/2006 | 9.75\% | 4.52\% | 5.23\% |
| 3/3/2006 | 10.39\% | 4.53\% | 5.86\% |
| 4/17/2006 | 10.20\% | 4.61\% | 5.59\% |
| 4/26/2006 | 10.60\% | 4.64\% | 5.96\% |
| 5/17/2006 | 11.60\% | 4.69\% | 6.91\% |
| 6/6/2006 | 10.00\% | 4.74\% | 5.26\% |
| 6/27/2006 | 10.75\% | 4.80\% | 5.95\% |
| 7/6/2006 | 10.20\% | 4.83\% | 5.37\% |
| 7/24/2006 | 9.60\% | 4.86\% | 4.74\% |
| 7/26/2006 | 10.50\% | 4.86\% | 5.64\% |
| 7/28/2006 | 10.05\% | 4.86\% | 5.19\% |
| 8/23/2006 | 9.55\% | 4.89\% | 4.66\% |
| 9/1/2006 | 10.54\% | 4.90\% | 5.64\% |
| 9/14/2006 | 10.00\% | 4.91\% | 5.09\% |
| 10/6/2006 | 9.67\% | 4.92\% | 4.75\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.12\% | 4.95\% | 5.17\% |
| 12/1/2006 | 10.25\% | 4.95\% | 5.30\% |
| 12/1/2006 | 10.50\% | 4.95\% | 5.55\% |
| 12/7/2006 | 10.75\% | 4.95\% | 5.80\% |
| 12/21/2006 | 10.90\% | 4.95\% | 5.95\% |
| 12/21/2006 | 11.25\% | 4.95\% | 6.30\% |
| 12/22/2006 | 10.25\% | 4.95\% | 5.30\% |
| 1/5/2007 | 10.00\% | 4.95\% | 5.05\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.90\% | 4.95\% | 5.95\% |
| 1/12/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/13/2007 | 10.40\% | 4.95\% | 5.45\% |
| 1/19/2007 | 10.80\% | 4.94\% | 5.86\% |
| 3/21/2007 | 11.35\% | 4.87\% | 6.48\% |
| 3/22/2007 | 9.75\% | 4.86\% | 4.89\% |
| 5/15/2007 | 10.00\% | 4.81\% | 5.19\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/22/2007 | 10.20\% | 4.80\% | 5.40\% |
| 5/22/2007 | 10.50\% | 4.80\% | 5.70\% |
| 5/23/2007 | 10.70\% | 4.80\% | 5.90\% |
| 5/25/2007 | 9.67\% | 4.80\% | 4.87\% |
| 6/15/2007 | 9.90\% | 4.82\% | 5.08\% |
| 6/21/2007 | 10.20\% | 4.83\% | 5.37\% |
| 6/22/2007 | 10.50\% | 4.83\% | 5.67\% |
| 6/28/2007 | 10.75\% | 4.84\% | 5.91\% |
| 7/12/2007 | 9.67\% | 4.86\% | 4.81\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 8/15/2007 | 10.40\% | 4.88\% | 5.52\% |
| 10/9/2007 | 10.00\% | 4.91\% | 5.09\% |
| 10/17/2007 | 9.10\% | 4.91\% | 4.19\% |
| 10/31/2007 | 9.96\% | 4.90\% | 5.06\% |

Schedule RBH-6
Page 21 of 29

| $11 / 29 / 2007$ | $10.90 \%$ | $4.87 \%$ | $6.03 \%$ |
| :---: | :---: | :---: | :---: |
| $12 / 6 / 2007$ | $10.75 \%$ | $4.86 \%$ | $5.89 \%$ |
| $12 / 13 / 2007$ | $9.96 \%$ | $4.86 \%$ | $5.10 \%$ |
| $12 / 14 / 2007$ | $10.70 \%$ | $4.86 \%$ | $5.84 \%$ |
| $12 / 14 / 2007$ | $10.80 \%$ | $4.86 \%$ | $5.94 \%$ |
| $12 / 19 / 2007$ | $10.20 \%$ | $4.86 \%$ | $5.34 \%$ |
| $12 / 20 / 2007$ | $10.20 \%$ | $4.85 \%$ | $5.35 \%$ |
| $12 / 20 / 2007$ | $11.00 \%$ | $4.85 \%$ | $6.15 \%$ |
| $12 / 28 / 2007$ | $10.25 \%$ | $4.85 \%$ | $5.40 \%$ |
| $12 / 31 / 2007$ | $11.25 \%$ | $4.85 \%$ | $6.40 \%$ |
| $1 / 8 / 2008$ | $10.75 \%$ | $4.83 \%$ | $5.92 \%$ |
| $1 / 17 / 2008$ | $10.75 \%$ | $4.81 \%$ | $5.94 \%$ |
| $1 / 28 / 2008$ | $9.40 \%$ | $4.80 \%$ | $4.60 \%$ |
| $1 / 30 / 2008$ | $10.00 \%$ | $4.79 \%$ | $5.21 \%$ |
| $1 / 31 / 2008$ | $10.71 \%$ | $4.79 \%$ | $5.92 \%$ |
| $2 / 29 / 2008$ | $10.25 \%$ | $4.75 \%$ | $5.50 \%$ |
| $3 / 12 / 2008$ | $10.25 \%$ | $4.73 \%$ | $5.52 \%$ |
| $3 / 25 / 2008$ | $9.10 \%$ | $4.68 \%$ | $4.42 \%$ |
| $4 / 22 / 2008$ | $10.25 \%$ | $4.60 \%$ | $5.65 \%$ |
| $4 / 24 / 2008$ | $10.10 \%$ | $4.60 \%$ | $5.50 \%$ |
| $5 / 1 / 2008$ | $10.70 \%$ | $4.59 \%$ | $6.11 \%$ |
| $5 / 19 / 2008$ | $11.00 \%$ | $4.56 \%$ | $6.44 \%$ |
| $5 / 27 / 2008$ | $10.00 \%$ | $4.55 \%$ | $5.45 \%$ |
| $6 / 10 / 2008$ | $10.70 \%$ | $4.54 \%$ | $6.16 \%$ |
| $6 / 27 / 2008$ | $10.50 \%$ | $4.54 \%$ | $5.96 \%$ |
| $6 / 27 / 2008$ | $11.04 \%$ | $4.54 \%$ | $6.50 \%$ |
| $7 / 10 / 2008$ | $10.43 \%$ | $4.52 \%$ | $5.91 \%$ |
| $7 / 16 / 2008$ | $9.40 \%$ | $4.52 \%$ | $4.88 \%$ |
| $7 / 30 / 2008$ | $10.80 \%$ | $4.51 \%$ | $6.29 \%$ |
| $7 / 31 / 2008$ | $10.70 \%$ | $4.51 \%$ | $6.19 \%$ |
| $8 / 11 / 2008$ | $10.25 \%$ | $4.51 \%$ | $5.74 \%$ |
| $8 / 26 / 2008$ | $10.18 \%$ | $4.50 \%$ | $5.68 \%$ |
| $9 / 10 / 2008$ | $10.30 \%$ | $4.50 \%$ | $5.80 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $9 / 30 / 2008$ | $10.20 \%$ | $4.48 \%$ | $5.72 \%$ |
| $10 / 8 / 2008$ | $10.15 \%$ | $4.46 \%$ | $5.69 \%$ |
| $11 / 13 / 2008$ | $10.55 \%$ | $4.45 \%$ | $6.10 \%$ |
| $11 / 17 / 2008$ | $10.20 \%$ | $4.44 \%$ | $5.76 \%$ |
| $12 / 1 / 2008$ | $10.25 \%$ | $4.40 \%$ | $5.85 \%$ |
| $12 / 23 / 2008$ | $11.00 \%$ | $4.27 \%$ | $6.73 \%$ |
| $12 / 29 / 2008$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $12 / 29 / 2008$ | $10.20 \%$ | $4.24 \%$ | $5.96 \%$ |
| $12 / 31 / 2008$ | $10.75 \%$ | $4.22 \%$ | $6.53 \%$ |
| $1 / 14 / 2009$ | $10.50 \%$ | $4.15 \%$ | $6.35 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 27 / 2009$ | $10.76 \%$ | $4.09 \%$ | $6.67 \%$ |
| $1 / 30 / 2009$ | $10.50 \%$ | $4.08 \%$ | $6.42 \%$ |
| $2 / 4 / 2009$ | $8.75 \%$ | $4.06 \%$ | $4.69 \%$ |
| $3 / 4 / 2009$ | $10.50 \%$ | $3.96 \%$ | $6.54 \%$ |
| $4 / 2 / 2009$ | $11.50 \%$ | $3.93 \%$ | $7.57 \%$ |
| $12 / 2009$ | $11.10 \%$ | $3.85 \%$ | $7.25 \%$ |
| $10.61 \%$ | $3.80 \%$ | $6.81 \%$ |  |
| $10.00 \%$ | $3.79 \%$ | $6.21 \%$ |  |
| $1 / 20$ |  |  |  |


| 4/30/2009 | 11.25\% | 3.78\% | 7.47\% |
| :---: | :---: | :---: | :---: |
| 5/4/2009 | 10.74\% | 3.77\% | 6.97\% |
| 5/20/2009 | 10.25\% | 3.74\% | 6.51\% |
| 5/28/2009 | 10.50\% | 3.74\% | 6.76\% |
| 6/22/2009 | 10.00\% | 3.76\% | 6.24\% |
| 6/24/2009 | 10.80\% | 3.77\% | 7.03\% |
| 7/8/2009 | 10.63\% | 3.77\% | 6.86\% |
| 7/17/2009 | 10.50\% | 3.78\% | 6.72\% |
| 8/31/2009 | 10.25\% | 3.82\% | 6.43\% |
| 10/14/2009 | 10.70\% | 4.01\% | 6.69\% |
| 10/23/2009 | 10.88\% | 4.06\% | 6.82\% |
| 11/2/2009 | 10.70\% | 4.09\% | 6.61\% |
| 11/3/2009 | 10.70\% | 4.10\% | 6.60\% |
| 11/24/2009 | 10.25\% | 4.15\% | 6.10\% |
| 11/25/2009 | 10.75\% | 4.16\% | 6.59\% |
| 11/30/2009 | 10.35\% | 4.17\% | 6.18\% |
| 12/3/2009 | 10.50\% | 4.18\% | 6.32\% |
| 12/7/2009 | 10.70\% | 4.18\% | 6.52\% |
| 12/16/2009 | 10.90\% | 4.21\% | 6.69\% |
| 12/16/2009 | 11.00\% | 4.21\% | 6.79\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/22/2009 | 10.20\% | 4.23\% | 5.97\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/30/2009 | 10.00\% | 4.26\% | 5.74\% |
| 1/4/2010 | 10.80\% | 4.28\% | 6.52\% |
| 1/11/2010 | 11.00\% | 4.30\% | 6.70\% |
| 1/26/2010 | 10.13\% | 4.35\% | 5.78\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.70\% | 4.35\% | 6.35\% |
| 2/9/2010 | 9.80\% | 4.38\% | 5.42\% |
| 2/18/2010 | 10.60\% | 4.40\% | 6.20\% |
| 2/24/2010 | 10.18\% | 4.41\% | 5.77\% |
| 3/2/2010 | 9.63\% | 4.41\% | 5.22\% |
| 3/4/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/5/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/11/2010 | 11.90\% | 4.42\% | 7.48\% |
| 3/17/2010 | 10.00\% | 4.41\% | 5.59\% |
| 3/25/2010 | 10.15\% | 4.42\% | 5.73\% |
| 4/2/2010 | 10.10\% | 4.43\% | 5.67\% |
| 4/27/2010 | 10.00\% | 4.46\% | 5.54\% |
| 4/29/2010 | 9.90\% | 4.46\% | 5.44\% |
| 4/29/2010 | 10.06\% | 4.46\% | 5.60\% |
| 4/29/2010 | 10.26\% | 4.46\% | 5.80\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/28/2010 | 10.10\% | 4.44\% | 5.66\% |
| 5/28/2010 | 10.20\% | 4.44\% | 5.76\% |
| 6/7/2010 | 10.30\% | 4.44\% | 5.86\% |
| 6/16/2010 | 10.00\% | 4.44\% | 5.56\% |
| 6/28/2010 | 9.67\% | 4.43\% | 5.24\% |
| 6/28/2010 | 10.50\% | 4.43\% | 6.07\% |
| 6/30/2010 | 9.40\% | 4.43\% | 4.97\% |
| 7/1/2010 | 10.25\% | 4.43\% | 5.82\% |
| 7/15/2010 | 10.53\% | 4.43\% | 6.10\% |

Schedule RBH-6
Page 23 of 29

| $7 / 15 / 2010$ | $10.70 \%$ | $4.43 \%$ | $6.27 \%$ |
| :---: | :---: | :---: | :---: |
| $7 / 30 / 2010$ | $10.70 \%$ | $4.41 \%$ | $6.29 \%$ |
| $8 / 4 / 2010$ | $10.50 \%$ | $4.41 \%$ | $6.09 \%$ |
| $8 / 6 / 2010$ | $9.83 \%$ | $4.41 \%$ | $5.42 \%$ |
| $8 / 25 / 2010$ | $9.90 \%$ | $4.37 \%$ | $5.53 \%$ |
| $9 / 3 / 2010$ | $10.60 \%$ | $4.35 \%$ | $6.25 \%$ |
| $9 / 14 / 2010$ | $10.70 \%$ | $4.33 \%$ | $6.37 \%$ |
| $9 / 16 / 2010$ | $10.00 \%$ | $4.33 \%$ | $5.67 \%$ |
| $9 / 16 / 2010$ | $10.00 \%$ | $4.33 \%$ | $5.67 \%$ |
| $9 / 30 / 2010$ | $9.75 \%$ | $4.29 \%$ | $5.46 \%$ |
| $10 / 14 / 2010$ | $10.35 \%$ | $4.24 \%$ | $6.11 \%$ |
| $10 / 28 / 2010$ | $10.70 \%$ | $4.21 \%$ | $6.49 \%$ |
| $11 / 2 / 2010$ | $10.38 \%$ | $4.20 \%$ | $6.18 \%$ |
| $11 / 4 / 2010$ | $10.70 \%$ | $4.20 \%$ | $6.50 \%$ |
| $11 / 19 / 2010$ | $10.20 \%$ | $4.18 \%$ | $6.02 \%$ |
| $11 / 22 / 2010$ | $10.00 \%$ | $4.18 \%$ | $5.82 \%$ |
| $12 / 1 / 2010$ | $10.13 \%$ | $4.16 \%$ | $5.97 \%$ |
| $12 / 6 / 2010$ | $9.86 \%$ | $4.15 \%$ | $5.71 \%$ |
| $12 / 9 / 2010$ | $10.25 \%$ | $4.15 \%$ | $6.10 \%$ |
| $12 / 13 / 2010$ | $10.70 \%$ | $4.15 \%$ | $6.55 \%$ |
| $12 / 14 / 2010$ | $10.13 \%$ | $4.15 \%$ | $5.98 \%$ |
| $12 / 15 / 2010$ | $10.44 \%$ | $4.15 \%$ | $6.29 \%$ |
| $12 / 17 / 2010$ | $10.00 \%$ | $4.15 \%$ | $5.85 \%$ |
| $12 / 20 / 2010$ | $10.60 \%$ | $4.15 \%$ | $6.45 \%$ |
| $12 / 21 / 2010$ | $10.30 \%$ | $4.14 \%$ | $6.16 \%$ |
| $12 / 27 / 2010$ | $9.90 \%$ | $4.14 \%$ | $5.76 \%$ |
| $12 / 29 / 2010$ | $11.15 \%$ | $4.14 \%$ | $7.01 \%$ |
| $1 / 5 / 2011$ | $10.15 \%$ | $4.13 \%$ | $6.02 \%$ |
| $1 / 12 / 2011$ | $10.30 \%$ | $4.12 \%$ | $6.18 \%$ |
| $1 / 13 / 2011$ | $10.30 \%$ | $4.12 \%$ | $6.18 \%$ |
| $1 / 18 / 2011$ | $10.00 \%$ | $4.12 \%$ | $5.88 \%$ |
| $1 / 20 / 2011$ | $9.30 \%$ | $4.12 \%$ | $5.18 \%$ |
| $1 / 20 / 2011$ | $10.13 \%$ | $4.12 \%$ | $6.01 \%$ |
| $1 / 31 / 2011$ | $9.60 \%$ | $4.12 \%$ | $5.48 \%$ |
| $2 / 3 / 2011$ | $10.00 \%$ | $4.12 \%$ | $5.88 \%$ |
| $9 / 22 / 2011$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $2 / 25 / 2011$ | $10.00 \%$ | $4.14 \%$ | $5.86 \%$ |
| $3 / 11 / 2011$ | $10.00 \%$ | $4.38 \%$ | $5.62 \%$ |
| $8 / 12 / 2011$ | $10.35 \%$ | $4.37 \%$ | $5.98 \%$ |
| $8 / 19 / 2011$ | $10.25 \%$ | $4.36 \%$ | $5.89 \%$ |
| $3 / 25 / 2011$ | $9.80 \%$ | $4.18 \%$ | $5.62 \%$ |
| $3 / 30 / 2011$ | $10.00 \%$ | $4.18 \%$ | $5.82 \%$ |
| $4 / 12 / 2011$ | $10.00 \%$ | $4.21 \%$ | $5.79 \%$ |
| $4 / 25 / 2011$ | $10.74 \%$ | $4.23 \%$ | $6.51 \%$ |
| $4 / 26 / 2011$ | $9.67 \%$ | $4.23 \%$ | $5.44 \%$ |
| $4 / 27 / 2011$ | $10.40 \%$ | $4.24 \%$ | $6.16 \%$ |
| $5 / 4 / 2011$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $5 / 4 / 2011$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $5 / 24 / 2011$ | $10.50 \%$ | $4.27 \%$ | $6.23 \%$ |
| $6 / 8 / 2011$ | $10.75 \%$ | $4.30 \%$ | $6.45 \%$ |
| $6 / 16 / 2011$ | $9.20 \%$ | $4.32 \%$ | $4.88 \%$ |
| $6 / 17 / 2011$ | $9.95 \%$ | $4.32 \%$ | $5.63 \%$ |
| $7 / 13 / 2011$ | $10.20 \%$ | $4.36 \%$ | $5.84 \%$ |
| $8 / 1 / 2011$ | $9.20 \%$ | $4.39 \%$ | $4.81 \%$ |
| $/ 2011$ | $10.00 \%$ | $4.38 \%$ | $5.62 \%$ |
| $12.88 \%$ | $4.32 \%$ | $8.56 \%$ |  |
| 10 |  |  |  |

Schedule RBH-6
Page 24 of 29

| 10/12/2011 | 10.30\% | 4.14\% | 6.16\% |
| :---: | :---: | :---: | :---: |
| 10/20/2011 | 10.50\% | 4.10\% | 6.40\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 12/14/2011 | 10.00\% | 3.80\% | 6.20\% |
| 12/14/2011 | 10.30\% | 3.80\% | 6.50\% |
| 12/20/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/21/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/22/2011 | 9.90\% | 3.75\% | 6.15\% |
| 12/22/2011 | 10.40\% | 3.75\% | 6.65\% |
| 12/23/2011 | 10.19\% | 3.74\% | 6.45\% |
| 1/25/2012 | 10.50\% | 3.57\% | 6.93\% |
| 1/27/2012 | 10.50\% | 3.56\% | 6.94\% |
| 2/15/2012 | 10.20\% | 3.47\% | 6.73\% |
| 2/23/2012 | 9.90\% | 3.44\% | 6.46\% |
| 2/27/2012 | 10.25\% | 3.43\% | 6.82\% |
| 2/29/2012 | 10.40\% | 3.41\% | 6.99\% |
| 3/29/2012 | 10.37\% | 3.32\% | 7.05\% |
| 4/4/2012 | 10.00\% | 3.30\% | 6.70\% |
| 4/26/2012 | 10.00\% | 3.21\% | 6.79\% |
| 5/2/2012 | 10.00\% | 3.18\% | 6.82\% |
| 5/7/2012 | 9.80\% | 3.17\% | 6.63\% |
| 5/15/2012 | 10.00\% | 3.14\% | 6.86\% |
| 5/29/2012 | 10.05\% | 3.11\% | 6.94\% |
| 6/7/2012 | 10.30\% | 3.08\% | 7.22\% |
| 6/14/2012 | 9.40\% | 3.06\% | 6.34\% |
| 6/15/2012 | 10.40\% | 3.06\% | 7.34\% |
| 6/18/2012 | 9.60\% | 3.06\% | 6.54\% |
| 6/19/2012 | 9.25\% | 3.05\% | 6.20\% |
| 6/26/2012 | 10.10\% | 3.04\% | 7.06\% |
| 6/29/2012 | 10.00\% | 3.04\% | 6.96\% |
| 7/9/2012 | 10.20\% | 3.03\% | 7.17\% |
| 7/16/2012 | 9.80\% | 3.02\% | 6.78\% |
| 7/20/2012 | 9.31\% | 3.01\% | 6.30\% |
| 7/20/2012 | 9.81\% | 3.01\% | 6.80\% |
| 9/13/2012 | 9.80\% | 2.94\% | 6.86\% |
| 9/19/2012 | 9.80\% | 2.94\% | 6.86\% |
| 9/19/2012 | 10.05\% | 2.94\% | 7.11\% |
| 9/26/2012 | 9.50\% | 2.94\% | 6.56\% |
| 10/12/2012 | 9.60\% | 2.93\% | 6.67\% |
| 10/23/2012 | 9.75\% | 2.93\% | 6.82\% |
| 10/24/2012 | 10.30\% | 2.93\% | 7.37\% |
| 11/9/2012 | 10.30\% | 2.92\% | 7.38\% |
| 11/28/2012 | 10.40\% | 2.90\% | 7.50\% |
| 11/29/2012 | 9.75\% | 2.89\% | 6.86\% |
| 11/29/2012 | 9.88\% | 2.89\% | 6.99\% |
| 12/5/2012 | 9.71\% | 2.89\% | 6.82\% |
| 12/5/2012 | 10.40\% | 2.89\% | 7.51\% |


| $12 / 12 / 2012$ | $9.80 \%$ | $2.88 \%$ | $6.92 \%$ |
| :---: | :---: | :---: | :---: |
| $12 / 13 / 2012$ | $9.50 \%$ | $2.88 \%$ | $6.62 \%$ |
| $12 / 13 / 2012$ | $10.50 \%$ | $2.88 \%$ | $7.62 \%$ |
| $12 / 14 / 2012$ | $10.40 \%$ | $2.88 \%$ | $7.52 \%$ |
| $12 / 19 / 2012$ | $9.71 \%$ | $2.87 \%$ | $6.84 \%$ |
| $12 / 19 / 2012$ | $10.25 \%$ | $2.87 \%$ | $7.38 \%$ |
| $12 / 20 / 2012$ | $9.50 \%$ | $2.87 \%$ | $6.63 \%$ |
| $12 / 20 / 2012$ | $9.80 \%$ | $2.87 \%$ | $6.93 \%$ |
| $12 / 20 / 2012$ | $10.25 \%$ | $2.87 \%$ | $7.38 \%$ |
| $12 / 20 / 2012$ | $10.25 \%$ | $2.87 \%$ | $7.38 \%$ |
| $12 / 20 / 2012$ | $10.30 \%$ | $2.87 \%$ | $7.43 \%$ |
| $12 / 20 / 2012$ | $10.40 \%$ | $2.87 \%$ | $7.53 \%$ |
| $12 / 20 / 2012$ | $10.45 \%$ | $2.87 \%$ | $7.58 \%$ |
| $12 / 21 / 2012$ | $10.20 \%$ | $2.87 \%$ | $7.33 \%$ |
| $12 / 26 / 2012$ | $9.80 \%$ | $2.86 \%$ | $6.94 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.85 \%$ | $6.85 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.85 \%$ | $6.85 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.85 \%$ | $6.85 \%$ |
| $1 / 16 / 2013$ | $9.60 \%$ | $2.84 \%$ | $6.76 \%$ |
| $1 / 16 / 2013$ | $9.60 \%$ | $2.84 \%$ | $6.76 \%$ |
| $2 / 13 / 2013$ | $10.20 \%$ | $2.84 \%$ | $7.36 \%$ |
| $2 / 22 / 2013$ | $9.75 \%$ | $2.85 \%$ | $6.90 \%$ |
| $2 / 27 / 2013$ | $10.00 \%$ | $2.86 \%$ | $7.14 \%$ |
| $3 / 14 / 2013$ | $9.30 \%$ | $2.88 \%$ | $6.42 \%$ |
| $3 / 27 / 2013$ | $9.80 \%$ | $2.90 \%$ | $6.90 \%$ |
| $5 / 1 / 2013$ | $9.84 \%$ | $2.94 \%$ | $6.90 \%$ |
| $5 / 15 / 2013$ | $10.30 \%$ | $2.96 \%$ | $7.34 \%$ |
| $5 / 30 / 2013$ | $10.20 \%$ | $2.98 \%$ | $7.22 \%$ |
| $5 / 31 / 2013$ | $9.00 \%$ | $2.98 \%$ | $6.02 \%$ |
| $6 / 11 / 2013$ | $10.00 \%$ | $3.00 \%$ | $7.00 \%$ |
| $6 / 21 / 2013$ | $9.75 \%$ | $3.02 \%$ | $6.73 \%$ |
| $6 / 25 / 2013$ | $9.80 \%$ | $3.03 \%$ | $6.77 \%$ |
| $7 / 12 / 2013$ | $9.36 \%$ | $3.07 \%$ | $6.29 \%$ |
| $8 / 8 / 2013$ | $9.83 \%$ | $3.14 \%$ | $6.69 \%$ |
| $8 / 14 / 2013$ | $9.15 \%$ | $3.16 \%$ | $5.99 \%$ |
| $9 / 11 / 2013$ | $10.20 \%$ | $3.26 \%$ | $6.94 \%$ |
| $9 / 11 / 2013$ | $10.25 \%$ | $3.26 \%$ | $6.99 \%$ |
| $9 / 24 / 2013$ | $10.20 \%$ | $3.31 \%$ | $6.89 \%$ |
| $10 / 3 / 2013$ | $9.65 \%$ | $3.33 \%$ | $6.32 \%$ |
| $11 / 6 / 2013$ | $10.20 \%$ | $3.41 \%$ | $6.79 \%$ |
| $11 / 21 / 2013$ | $10.00 \%$ | $3.44 \%$ | $6.56 \%$ |
| $11 / 26 / 2013$ | $10.00 \%$ | $3.45 \%$ | $6.55 \%$ |
| $12 / 3 / 2013$ | $10.25 \%$ | $3.47 \%$ | $6.78 \%$ |
| $12 / 4 / 2013$ | $9.50 \%$ | $3.47 \%$ | $6.03 \%$ |
| $12 / 5 / 2013$ | $10.20 \%$ | $3.48 \%$ | $6.72 \%$ |
| $12 / 9 / 2013$ | $8.72 \%$ | $3.48 \%$ | $5.24 \%$ |
| $12 / 9 / 2013$ | $9.75 \%$ | $3.48 \%$ | $6.27 \%$ |
| $12 / 13 / 2013$ | $9.75 \%$ | $3.50 \%$ | $6.25 \%$ |
|  |  |  |  |

Schedule RBH-6
Page 26 of 29

| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| :---: | :---: | :---: | :---: |
| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| 12/16/2013 | 10.12\% | 3.50\% | 6.62\% |
| 12/17/2013 | 9.50\% | 3.51\% | 5.99\% |
| 12/17/2013 | 10.95\% | 3.51\% | 7.44\% |
| 12/18/2013 | 8.72\% | 3.51\% | 5.21\% |
| 12/18/2013 | 9.80\% | 3.51\% | 6.29\% |
| 12/19/2013 | 10.15\% | 3.51\% | 6.64\% |
| 12/30/2013 | 9.50\% | 3.54\% | 5.96\% |
| 2/20/2014 | 9.20\% | 3.68\% | 5.52\% |
| 2/26/2014 | 9.75\% | 3.69\% | 6.06\% |
| 3/17/2014 | 9.55\% | 3.72\% | 5.83\% |
| 3/26/2014 | 9.40\% | 3.73\% | 5.67\% |
| 3/26/2014 | 9.96\% | 3.73\% | 6.23\% |
| 4/2/2014 | 9.70\% | 3.73\% | 5.97\% |
| 5/16/2014 | 9.80\% | 3.70\% | 6.10\% |
| 5/30/2014 | 9.70\% | 3.68\% | 6.02\% |
| 6/6/2014 | 10.40\% | 3.67\% | 6.73\% |
| 6/30/2014 | 9.55\% | 3.64\% | 5.91\% |
| 7/2/2014 | 9.62\% | 3.64\% | 5.98\% |
| 7/10/2014 | 9.95\% | 3.63\% | 6.32\% |
| 7/23/2014 | 9.75\% | 3.61\% | 6.14\% |
| 7/29/2014 | 9.45\% | 3.60\% | 5.85\% |
| 7/31/2014 | 9.90\% | 3.60\% | 6.30\% |
| 8/20/2014 | 9.75\% | 3.57\% | 6.18\% |
| 8/25/2014 | 9.60\% | 3.56\% | 6.04\% |
| 8/29/2014 | 9.80\% | 3.54\% | 6.26\% |
| 9/11/2014 | 9.60\% | 3.51\% | 6.09\% |
| 9/15/2014 | 10.25\% | 3.51\% | 6.74\% |
| 10/9/2014 | 9.80\% | 3.45\% | 6.35\% |
| 11/6/2014 | 9.56\% | 3.37\% | 6.19\% |
| 11/6/2014 | 10.20\% | 3.37\% | 6.83\% |
| 11/14/2014 | 10.20\% | 3.35\% | 6.85\% |
| 11/26/2014 | 9.70\% | 3.33\% | 6.37\% |
| 11/26/2014 | 10.20\% | 3.33\% | 6.87\% |
| 12/4/2014 | 9.68\% | 3.31\% | 6.37\% |
| 12/10/2014 | 9.25\% | 3.29\% | 5.96\% |
| 12/10/2014 | 9.25\% | 3.29\% | 5.96\% |
| 12/11/2014 | 10.07\% | 3.29\% | 6.78\% |
| 12/12/2014 | 10.20\% | 3.28\% | 6.92\% |
| 12/17/2014 | 9.17\% | 3.27\% | 5.90\% |
| 12/18/2014 | 9.83\% | 3.26\% | 6.57\% |
| 1/23/2015 | 9.50\% | 3.14\% | 6.36\% |
| 2/24/2015 | 9.83\% | 3.04\% | 6.79\% |
| 3/18/2015 | 9.75\% | 2.98\% | 6.77\% |
| 3/25/2015 | 9.50\% | 2.96\% | 6.54\% |
| 3/26/2015 | 9.72\% | 2.95\% | 6.77\% |
| 4/23/2015 | 10.20\% | 2.87\% | 7.33\% |

Schedule RBH-6
Page 27 of 29

| $4 / 29 / 2015$ | $9.53 \%$ | $2.86 \%$ | $6.67 \%$ |
| :---: | :---: | :---: | :---: |
| $5 / 1 / 2015$ | $9.60 \%$ | $2.85 \%$ | $6.75 \%$ |
| $5 / 26 / 2015$ | $9.75 \%$ | $2.83 \%$ | $6.92 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $9 / 2 / 2015$ | $9.50 \%$ | $2.79 \%$ | $6.71 \%$ |
| $9 / 10 / 2015$ | $9.30 \%$ | $2.79 \%$ | $6.51 \%$ |
| $10 / 15 / 2015$ | $9.00 \%$ | $2.81 \%$ | $6.19 \%$ |
| $11 / 19 / 2015$ | $10.00 \%$ | $2.88 \%$ | $7.12 \%$ |
| $11 / 19 / 2015$ | $10.30 \%$ | $2.88 \%$ | $7.42 \%$ |
| $12 / 3 / 2015$ | $10.00 \%$ | $2.90 \%$ | $7.10 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 11 / 2015$ | $10.30 \%$ | $2.90 \%$ | $7.40 \%$ |
| $12 / 15 / 2015$ | $9.60 \%$ | $2.91 \%$ | $6.69 \%$ |
| $12 / 17 / 2015$ | $9.70 \%$ | $2.91 \%$ | $6.79 \%$ |
| $12 / 18 / 2015$ | $9.50 \%$ | $2.91 \%$ | $6.59 \%$ |
| $12 / 30 / 2015$ | $9.50 \%$ | $2.93 \%$ | $6.57 \%$ |
| $1 / 6 / 2016$ | $9.50 \%$ | $2.94 \%$ | $6.56 \%$ |
| $2 / 23 / 2016$ | $9.75 \%$ | $2.94 \%$ | $6.81 \%$ |
| $3 / 16 / 2016$ | $9.85 \%$ | $2.91 \%$ | $6.94 \%$ |
| $4 / 29 / 2016$ | $9.80 \%$ | $2.83 \%$ | $6.97 \%$ |
| $6 / 3 / 2016$ | $9.75 \%$ | $2.80 \%$ | $6.95 \%$ |
| $6 / 8 / 2016$ | $9.48 \%$ | $2.80 \%$ | $6.68 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.78 \%$ | $6.22 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.78 \%$ | $6.22 \%$ |
| $7 / 18 / 2016$ | $9.98 \%$ | $2.71 \%$ | $7.27 \%$ |
| $8 / 9 / 2016$ | $9.85 \%$ | $2.66 \%$ | $7.19 \%$ |
| $8 / 18 / 2016$ | $9.50 \%$ | $2.63 \%$ | $6.87 \%$ |
| $8 / 24 / 2016$ | $9.75 \%$ | $2.62 \%$ | $7.13 \%$ |
| $9 / 1 / 2016$ | $9.50 \%$ | $2.59 \%$ | $6.91 \%$ |
| $9 / 8 / 2016$ | $10.00 \%$ | $2.58 \%$ | $7.42 \%$ |
| $9 / 28 / 2016$ | $9.58 \%$ | $2.54 \%$ | $7.04 \%$ |
| $9 / 30 / 2016$ | $9.90 \%$ | $2.53 \%$ | $7.37 \%$ |
| $11 / 9 / 2016$ | $9.80 \%$ | $2.48 \%$ | $7.32 \%$ |
| $11 / 10 / 2016$ | $9.50 \%$ | $2.48 \%$ | $7.02 \%$ |
| $11 / 15 / 2016$ | $9.55 \%$ | $2.49 \%$ | $7.06 \%$ |
| $11 / 18 / 2016$ | $10.00 \%$ | $2.50 \%$ | $7.50 \%$ |
| $11 / 29 / 2016$ | $10.55 \%$ | $2.51 \%$ | $8.04 \%$ |
| $12 / 1 / 2016$ | $10.00 \%$ | $2.51 \%$ | $7.49 \%$ |
| $12 / 6 / 2016$ | $8.64 \%$ | $2.52 \%$ | $6.12 \%$ |
| $12 / 6 / 2016$ | $8.64 \%$ | $2.52 \%$ | $6.12 \%$ |
| $12 / 7 / 2016$ | $10.10 \%$ | $2.52 \%$ | $7.58 \%$ |
| $12 / 12 / 2016$ | $9.60 \%$ | $2.53 \%$ | $7.07 \%$ |
| $12 / 14 / 2016$ | $9.10 \%$ | $2.53 \%$ | $6.57 \%$ |
| $12 / 19 / 2016$ | $9.00 \%$ | $2.54 \%$ | $6.46 \%$ |
| $12 / 19 / 2016$ | $9.37 \%$ | $2.54 \%$ | $6.83 \%$ |
| $12 / 22 / 2016$ | $9.60 \%$ | $2.55 \%$ | $7.05 \%$ |
|  |  |  |  |


| $12 / 22 / 2016$ | $9.90 \%$ | $2.55 \%$ | $7.35 \%$ |
| :---: | :---: | :---: | :---: |
| $12 / 28 / 2016$ | $9.50 \%$ | $2.55 \%$ | $6.95 \%$ |
| $1 / 18 / 2017$ | $9.45 \%$ | $2.58 \%$ | $6.87 \%$ |
| $1 / 24 / 2017$ | $9.00 \%$ | $2.59 \%$ | $6.41 \%$ |
| $1 / 31 / 2017$ | $10.10 \%$ | $2.60 \%$ | $7.50 \%$ |
| $2 / 15 / 2017$ | $9.60 \%$ | $2.62 \%$ | $6.98 \%$ |
| $2 / 22 / 2017$ | $9.60 \%$ | $2.64 \%$ | $6.96 \%$ |
| $2 / 24 / 2017$ | $9.75 \%$ | $2.64 \%$ | $7.11 \%$ |
| $2 / 28 / 2017$ | $10.10 \%$ | $2.64 \%$ | $7.46 \%$ |
| $3 / 2 / 2017$ | $9.41 \%$ | $2.65 \%$ | $6.76 \%$ |
| $3 / 20 / 2017$ | $9.50 \%$ | $2.68 \%$ | $6.82 \%$ |
| $4 / 4 / 2017$ | $10.25 \%$ | $2.71 \%$ | $7.54 \%$ |
| $4 / 12 / 2017$ | $9.40 \%$ | $2.74 \%$ | $6.66 \%$ |
| $4 / 20 / 2017$ | $9.50 \%$ | $2.76 \%$ | $6.74 \%$ |
| $5 / 3 / 2017$ | $9.50 \%$ | $2.79 \%$ | $6.71 \%$ |
| $5 / 11 / 2017$ | $9.20 \%$ | $2.81 \%$ | $6.39 \%$ |
| $5 / 18 / 2017$ | $9.50 \%$ | $2.83 \%$ | $6.67 \%$ |
| $5 / 23 / 2017$ | $9.70 \%$ | $2.84 \%$ | $6.86 \%$ |
| $6 / 16 / 2017$ | $9.65 \%$ | $2.89 \%$ | $6.76 \%$ |
| $6 / 22 / 2017$ | $9.70 \%$ | $2.90 \%$ | $6.80 \%$ |
| $6 / 22 / 2017$ | $9.70 \%$ | $2.90 \%$ | $6.80 \%$ |
| $7 / 24 / 2017$ | $9.50 \%$ | $2.95 \%$ | $6.55 \%$ |
| $8 / 15 / 2017$ | $10.00 \%$ | $2.97 \%$ | $7.03 \%$ |
| $9 / 22 / 2017$ | $9.60 \%$ | $2.93 \%$ | $6.67 \%$ |
| $9 / 28 / 2017$ | $9.80 \%$ | $2.92 \%$ | $6.88 \%$ |
| $10 / 20 / 2017$ | $9.50 \%$ | $2.91 \%$ | $6.59 \%$ |
| $10 / 26 / 2017$ | $10.20 \%$ | $2.91 \%$ | $7.29 \%$ |
| $10 / 26 / 2017$ | $10.25 \%$ | $2.91 \%$ | $7.34 \%$ |
| $10 / 26 / 2017$ | $10.30 \%$ | $2.91 \%$ | $7.39 \%$ |
| $11 / 6 / 2017$ | $10.25 \%$ | $2.91 \%$ | $7.34 \%$ |
| $11 / 15 / 2017$ | $11.95 \%$ | $2.91 \%$ | $9.04 \%$ |
| $11 / 30 / 2017$ | $10.00 \%$ | $2.88 \%$ | $7.12 \%$ |
| $11 / 30 / 2017$ | $10.00 \%$ | $2.88 \%$ | $7.12 \%$ |
| $12 / 5 / 2017$ | $9.50 \%$ | $2.88 \%$ | $6.62 \%$ |
| $12 / 6 / 2017$ | $8.40 \%$ | $2.87 \%$ | $5.53 \%$ |
| $12 / 6 / 2017$ | $8.40 \%$ | $2.87 \%$ | $5.53 \%$ |
| $12 / 7 / 2017$ | $9.80 \%$ | $2.87 \%$ | $6.93 \%$ |
| $12 / 14 / 2017$ | $9.60 \%$ | $2.86 \%$ | $6.74 \%$ |
| $12 / 14 / 2017$ | $9.65 \%$ | $2.86 \%$ | $6.79 \%$ |
| $12 / 18 / 2017$ | $9.50 \%$ | $2.86 \%$ | $6.64 \%$ |
| $12 / 20 / 2017$ | $9.58 \%$ | $2.86 \%$ | $6.72 \%$ |
| $12 / 21 / 2017$ | $9.10 \%$ | $2.85 \%$ | $6.25 \%$ |
| $12 / 28 / 2017$ | $9.50 \%$ | $2.85 \%$ | $6.65 \%$ |
| $12 / 29 / 2017$ | $9.40 \%$ | $2.85 \%$ | $6.55 \%$ |
|  |  |  |  |


| \# of Cases: | 1541 |
| :--- | ---: |
| Average: | $4.61 \%$ |

Alternative Bond Yield Plus Risk Premium Analyses

|  | [1] | [2] | [3] | [4] |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 30-Y e a r \\ \text { Treasury Yield } \\ \hline \end{gathered}$ | Moody's Utility A Yield | Moody's Utility A Credit Spread | VIX |
| 30-Day Average | 2.77\% | 3.81\% | 1.03\% | 10.34 |
| Near-Term Projected | 3.32\% | 3.81\% | 0.49\% | 10.34 |
| Long-Term Projected | 4.20\% | 3.81\% | -0.39\% | 10.34 |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.839887946 |
| R Square | 0.705411762 |
| Adjusted R Square | 0.70412722 |
| Standard Error | 0.005358463 |
| Observations | 692 |


|  | $d f$ | SS | MS | $F$ | Significance F |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 3 | 0.047303817 | 0.015767939 | 549.154412 | $4.5268 \mathrm{E}-182$ |  |  |  |
| Residual | 688 | 0.01975463 | 2.87131E-05 |  |  |  |  |  |
| Total | 691 | 0.067058447 |  |  |  |  |  |  |
|  | Coefficients | Standard Error | t Stat | $P$-value | Lower 95\% | Upper 95\% | Lower 95.0\% | Upper 95.0\% |
| Intercept | -0.027749506 | 0.00214866 | -12.91479673 | $2.5451 \mathrm{E}-34$ | -0.031968224 | -0.023530788 | -0.031968224 | -0.023530788 |
| LN(30-Year Treasury) | -0.025746751 | 0.000661026 | -38.94969012 | 3.6014E-176 | -0.027044621 | -0.024448881 | -0.027044621 | -0.024448881 |
| Moody's Utility A Credit Spreac | 0.194808374 | 0.085685578 | 2.273525822 | 0.023301857 | 0.026571766 | 0.363044981 | 0.026571766 | 0.363044981 |
| VIX | 0.000178794 | $5.5527 \mathrm{E}-05$ | 3.219948155 | 0.001342431 | $6.97713 \mathrm{E}-05$ | 0.000287817 | $6.97713 \mathrm{E}-05$ | 0.000287817 |


|  | Risk Premium | Return on <br> Equity |
| :--- | :---: | :---: |
| Regression Result - Credit Spread, VIX | $6.84 \%$ | $9.61 \%$ |
| Regression Result - Credit Spread, VIX | $6.28 \%$ | $9.59 \%$ |
| Regression Result - Credit Spread, VIX | $5.50 \%$ | $9.70 \%$ |

## Notes:

[1] Source: Bloomberg Professiona
[2] Source: Bloomberg Professional
[3] Source: Bloomberg Professional
[4] Source: Bloomberg Professional
[5] Source: S\&P Global Market Intelligence
[6] Source: S\&P Global Market Intelligence
[7] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period) as of December 29, 2017
[8] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period) as of December 29, 201;
[9] Equals LN[8]
[10] Equals [8] - [7]
[11] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period) as of December 29, 201;
[12] Equals [6] - [7]

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/1/1980 | 14.50\% | 9.36\% |  | -2.37 |  |  | 5.14\% |
| 1/7/1980 | 14.39\% | 9.38\% |  | -2.37 |  |  | 5.01\% |
| 1/9/1980 | 15.00\% | 9.40\% |  | -2.36 |  |  | 5.60\% |
| 1/14/1980 | 15.17\% | 9.42\% |  | -2.36 |  |  | 5.75\% |
| 1/17/1980 | 13.93\% | 9.44\% |  | -2.36 |  |  | 4.49\% |
| 1/23/1980 | 15.50\% | 9.47\% |  | -2.36 |  |  | 6.03\% |
| 1/30/1980 | 13.86\% | 9.52\% |  | -2.35 |  |  | 4.34\% |
| 1/31/1980 | 12.61\% | 9.53\% |  | -2.35 |  |  | 3.08\% |
| 2/6/1980 | 13.71\% | 9.58\% |  | -2.35 |  |  | 4.13\% |
| 2/13/1980 | 12.80\% | 9.63\% |  | -2.34 |  |  | 3.17\% |
| 2/14/1980 | 13.00\% | 9.65\% |  | -2.34 |  |  | 3.35\% |
| 2/19/1980 | 13.50\% | 9.68\% |  | -2.34 |  |  | 3.82\% |
| 2/27/1980 | 13.75\% | 9.78\% |  | -2.32 |  |  | 3.97\% |
| 2/29/1980 | 13.75\% | 9.81\% |  | -2.32 |  |  | 3.94\% |
| 2/29/1980 | 14.00\% | 9.81\% |  | -2.32 |  |  | 4.19\% |
| 2/29/1980 | 14.77\% | 9.81\% |  | -2.32 |  |  | 4.96\% |
| 3/7/1980 | 12.70\% | 9.89\% |  | -2.31 |  |  | 2.81\% |
| 3/14/1980 | 13.50\% | 9.97\% |  | -2.31 |  |  | 3.53\% |
| 3/26/1980 | 14.16\% | 10.10\% |  | -2.29 |  |  | 4.06\% |
| 3/27/1980 | 14.24\% | 10.12\% |  | -2.29 |  |  | 4.12\% |
| 3/28/1980 | 14.50\% | 10.13\% |  | -2.29 |  |  | 4.37\% |
| 4/11/1980 | 12.75\% | 10.27\% |  | -2.28 |  |  | 2.48\% |
| 4/14/1980 | 13.85\% | 10.29\% |  | -2.27 |  |  | 3.56\% |
| 4/16/1980 | 15.50\% | 10.31\% |  | -2.27 |  |  | 5.19\% |
| 4/22/1980 | 13.25\% | 10.35\% |  | -2.27 |  |  | 2.90\% |
| 4/22/1980 | 13.90\% | 10.35\% |  | -2.27 |  |  | 3.55\% |
| 4/24/1980 | 16.80\% | 10.38\% |  | -2.27 |  |  | 6.43\% |
| 4/29/1980 | 15.50\% | 10.41\% |  | -2.26 |  |  | 5.09\% |
| 5/6/1980 | 13.70\% | 10.45\% |  | -2.26 |  |  | 3.25\% |
| 5/7/1980 | 15.00\% | 10.45\% |  | -2.26 |  |  | 4.55\% |
| 5/8/1980 | 13.75\% | 10.46\% |  | -2.26 |  |  | 3.29\% |
| 5/9/1980 | 14.35\% | 10.47\% |  | -2.26 |  |  | 3.88\% |
| 5/13/1980 | 13.60\% | 10.48\% |  | -2.26 |  |  | 3.12\% |
| 5/15/1980 | 13.25\% | 10.49\% |  | -2.25 |  |  | 2.76\% |
| 5/19/1980 | 13.75\% | 10.51\% |  | -2.25 |  |  | 3.24\% |
| 5/27/1980 | 13.62\% | 10.54\% |  | -2.25 |  |  | 3.08\% |
| 5/27/1980 | 14.60\% | 10.54\% |  | -2.25 |  |  | 4.06\% |
| 5/29/1980 | 16.00\% | 10.56\% |  | -2.25 |  |  | 5.44\% |
| 5/30/1980 | 13.80\% | 10.56\% |  | -2.25 |  |  | 3.24\% |
| 6/2/1980 | 15.63\% | 10.57\% |  | -2.25 |  |  | 5.06\% |
| 6/9/1980 | 15.90\% | 10.60\% |  | -2.24 |  |  | 5.30\% |
| 6/10/1980 | 13.78\% | 10.60\% |  | -2.24 |  |  | 3.18\% |
| 6/12/1980 | 14.25\% | 10.61\% |  | -2.24 |  |  | 3.64\% |
| 6/19/1980 | 13.40\% | 10.62\% |  | -2.24 |  |  | 2.78\% |
| 6/30/1980 | 13.00\% | 10.65\% |  | -2.24 |  |  | 2.35\% |
| 6/30/1980 | 13.40\% | 10.65\% |  | -2.24 |  |  | 2.75\% |
| 7/9/1980 | 14.75\% | 10.67\% |  | -2.24 |  |  | 4.08\% |
| 7/10/1980 | 15.00\% | 10.68\% |  | -2.24 |  |  | 4.32\% |
| 7/15/1980 | 15.80\% | 10.70\% |  | -2.24 |  |  | 5.10\% |
| 7/18/1980 | 13.80\% | 10.71\% |  | -2.23 |  |  | 3.09\% |
| 7/22/1980 | 14.10\% | 10.72\% |  | -2.23 |  |  | 3.38\% |
| 7/24/1980 | 15.00\% | 10.73\% |  | -2.23 |  |  | 4.27\% |
| 7/25/1980 | 13.48\% | 10.73\% |  | -2.23 |  |  | 2.75\% |
| 7/31/1980 | 14.58\% | 10.75\% |  | -2.23 |  |  | 3.83\% |
| 8/8/1980 | 13.50\% | 10.78\% |  | -2.23 |  |  | 2.72\% |
| 8/8/1980 | 14.00\% | 10.78\% |  | -2.23 |  |  | 3.22\% |
| 8/8/1980 | 15.45\% | 10.78\% |  | -2.23 |  |  | 4.67\% |
| 8/11/1980 | 14.85\% | 10.78\% |  | -2.23 |  |  | 4.07\% |
| 8/14/1980 | 14.00\% | 10.79\% |  | -2.23 |  |  | 3.21\% |
| 8/14/1980 | 16.25\% | 10.79\% |  | -2.23 |  |  | 5.46\% |
| 8/25/1980 | 13.75\% | 10.82\% |  | -2.22 |  |  | 2.93\% |
| 8/27/1980 | 13.80\% | 10.83\% |  | -2.22 |  |  | 2.97\% |
| 8/29/1980 | 12.50\% | 10.84\% |  | -2.22 |  |  | 1.66\% |
| 9/15/1980 | 13.50\% | 10.88\% |  | -2.22 |  |  | 2.62\% |
| 9/15/1980 | 13.93\% | 10.88\% |  | -2.22 |  |  | 3.05\% |
| 9/15/1980 | 15.80\% | 10.88\% |  | -2.22 |  |  | 4.92\% |
| 9/24/1980 | 12.50\% | 10.93\% |  | -2.21 |  |  | 1.57\% |
| 9/24/1980 | 15.00\% | 10.93\% |  | -2.21 |  |  | 4.07\% |
| 9/26/1980 | 13.75\% | 10.94\% |  | -2.21 |  |  | 2.81\% |
| 9/30/1980 | 14.10\% | 10.96\% |  | -2.21 |  |  | 3.14\% |
| 9/30/1980 | 14.20\% | 10.96\% |  | -2.21 |  |  | 3.24\% |
| 10/1/1980 | 13.90\% | 10.97\% |  | -2.21 |  |  | 2.93\% |
| 10/3/1980 | 15.50\% | 10.98\% |  | -2.21 |  |  | 4.52\% |
| 10/7/1980 | 12.50\% | 10.99\% |  | -2.21 |  |  | 1.51\% |
| 10/9/1980 | 13.25\% | 11.00\% |  | -2.21 |  |  | 2.25\% |
| 10/9/1980 | 14.50\% | 11.00\% |  | -2.21 |  |  | 3.50\% |
| 10/9/1980 | 14.50\% | 11.00\% |  | -2.21 |  |  | 3.50\% |
| 10/16/1980 | 16.10\% | 11.02\% |  | -2.21 |  |  | 5.08\% |
| 10/17/1980 | 14.50\% | 11.03\% |  | -2.20 |  |  | 3.47\% |
| 10/31/1980 | 13.75\% | 11.11\% |  | -2.20 |  |  | 2.64\% |
| 10/31/1980 | 14.25\% | 11.11\% |  | -2.20 |  |  | 3.14\% |
| 11/4/1980 | 15.00\% | 11.12\% |  | -2.20 |  |  | 3.88\% |
| 11/5/1980 | 13.75\% | 11.12\% |  | -2.20 |  |  | 2.63\% |

Schedule RBH-7
Page 2 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11/5/1980 | 14.00\% | 11.12\% |  | -2.20 |  |  | 2.88\% |
| 11/8/1980 | 13.75\% | 11.14\% |  | -2.19 |  |  | 2.61\% |
| 11/10/1980 | 14.85\% | 11.15\% |  | -2.19 |  |  | 3.70\% |
| 11/17/1980 | 14.00\% | 11.18\% |  | -2.19 |  |  | 2.82\% |
| 11/18/1980 | 14.00\% | 11.19\% |  | -2.19 |  |  | 2.81\% |
| 11/19/1980 | 13.00\% | 11.19\% |  | -2.19 |  |  | 1.81\% |
| 11/24/1980 | 14.00\% | 11.21\% |  | -2.19 |  |  | 2.79\% |
| 11/26/1980 | 14.00\% | 11.21\% |  | -2.19 |  |  | 2.79\% |
| 12/8/1980 | 14.15\% | 11.22\% |  | -2.19 |  |  | 2.93\% |
| 12/8/1980 | 15.10\% | 11.22\% |  | -2.19 |  |  | 3.88\% |
| 12/9/1980 | 15.35\% | 11.22\% |  | -2.19 |  |  | 4.13\% |
| 12/12/1980 | 15.45\% | 11.23\% |  | -2.19 |  |  | 4.22\% |
| 12/17/1980 | 13.25\% | 11.23\% |  | -2.19 |  |  | 2.02\% |
| 12/18/1980 | 15.80\% | 11.23\% |  | -2.19 |  |  | 4.57\% |
| 12/19/1980 | 14.50\% | 11.23\% |  | -2.19 |  |  | 3.27\% |
| 12/19/1980 | 14.64\% | 11.23\% |  | -2.19 |  |  | 3.41\% |
| 12/22/1980 | 13.45\% | 11.23\% |  | -2.19 |  |  | 2.22\% |
| 12/22/1980 | 15.00\% | 11.23\% |  | -2.19 |  |  | 3.77\% |
| 12/30/1980 | 14.50\% | 11.22\% |  | -2.19 |  |  | 3.28\% |
| 12/30/1980 | 14.95\% | 11.22\% |  | -2.19 |  |  | 3.73\% |
| 12/31/1980 | 13.39\% | 11.22\% |  | -2.19 |  |  | 2.17\% |
| 1/2/1981 | 15.25\% | 11.22\% |  | -2.19 |  |  | 4.03\% |
| 1/7/1981 | 14.30\% | 11.21\% |  | -2.19 |  |  | 3.09\% |
| 1/19/1981 | 15.25\% | 11.20\% |  | -2.19 |  |  | 4.05\% |
| 1/23/1981 | 13.10\% | 11.20\% |  | -2.19 |  |  | 1.90\% |
| 1/23/1981 | 14.40\% | 11.20\% |  | -2.19 |  |  | 3.20\% |
| 1/26/1981 | 15.25\% | 11.20\% |  | -2.19 |  |  | 4.05\% |
| 1/27/1981 | 15.00\% | 11.21\% |  | -2.19 |  |  | 3.79\% |
| 1/31/1981 | 13.47\% | 11.22\% |  | -2.19 |  |  | 2.25\% |
| 2/3/1981 | 15.25\% | 11.23\% |  | -2.19 |  |  | 4.02\% |
| 2/5/1981 | 15.75\% | 11.25\% |  | -2.19 |  |  | 4.50\% |
| 2/11/1981 | 15.60\% | 11.28\% |  | -2.18 |  |  | 4.32\% |
| 2/20/1981 | 15.25\% | 11.33\% |  | -2.18 |  |  | 3.92\% |
| 3/11/1981 | 15.40\% | 11.49\% |  | -2.16 |  |  | 3.91\% |
| 3/12/1981 | 14.51\% | 11.50\% |  | -2.16 |  |  | 3.01\% |
| 3/12/1981 | 16.00\% | 11.50\% |  | -2.16 |  |  | 4.50\% |
| 3/13/1981 | 13.02\% | 11.52\% |  | -2.16 |  |  | 1.50\% |
| 3/18/1981 | 16.19\% | 11.55\% |  | -2.16 |  |  | 4.64\% |
| 3/19/1981 | 13.75\% | 11.56\% |  | -2.16 |  |  | 2.19\% |
| 3/23/1981 | 14.30\% | 11.58\% |  | -2.16 |  |  | 2.72\% |
| 3/25/1981 | 15.30\% | 11.60\% |  | -2.15 |  |  | 3.70\% |
| 4/1/1981 | 14.53\% | 11.68\% |  | -2.15 |  |  | 2.85\% |
| 4/3/1981 | 19.10\% | 11.71\% |  | -2.14 |  |  | 7.39\% |
| 4/9/1981 | 15.00\% | 11.78\% |  | -2.14 |  |  | 3.22\% |
| 4/9/1981 | 15.30\% | 11.78\% |  | -2.14 |  |  | 3.52\% |
| 4/9/1981 | 16.50\% | 11.78\% |  | -2.14 |  |  | 4.72\% |
| 4/9/1981 | 17.00\% | 11.78\% |  | -2.14 |  |  | 5.22\% |
| 4/10/1981 | 13.75\% | 11.80\% |  | -2.14 |  |  | 1.95\% |
| 4/13/1981 | 13.57\% | 11.82\% |  | -2.14 |  |  | 1.75\% |
| 4/15/1981 | 15.30\% | 11.85\% |  | -2.13 |  |  | 3.45\% |
| 4/16/1981 | 13.50\% | 11.87\% |  | -2.13 |  |  | 1.63\% |
| 4/17/1981 | 14.10\% | 11.87\% |  | -2.13 |  |  | 2.23\% |
| 4/21/1981 | 14.00\% | 11.90\% |  | -2.13 |  |  | 2.10\% |
| 4/21/1981 | 16.80\% | 11.90\% |  | -2.13 |  |  | 4.90\% |
| 4/24/1981 | 16.00\% | 11.95\% |  | -2.12 |  |  | 4.05\% |
| 4/27/1981 | 12.50\% | 11.97\% |  | -2.12 |  |  | 0.53\% |
| 4/27/1981 | 13.61\% | 11.97\% |  | -2.12 |  |  | 1.64\% |
| 4/29/1981 | 13.65\% | 12.00\% |  | -2.12 |  |  | 1.65\% |
| 4/30/1981 | 13.50\% | 12.02\% |  | -2.12 |  |  | 1.48\% |
| 5/4/1981 | 16.22\% | 12.05\% |  | -2.12 |  |  | 4.17\% |
| 5/5/1981 | 14.40\% | 12.07\% |  | -2.11 |  |  | 2.33\% |
| 5/7/1981 | 16.25\% | 12.11\% |  | -2.11 |  |  | 4.14\% |
| 5/7/1981 | 16.27\% | 12.11\% |  | -2.11 |  |  | 4.16\% |
| 5/8/1981 | 13.00\% | 12.13\% |  | -2.11 |  |  | 0.87\% |
| 5/8/1981 | 16.00\% | 12.13\% |  | -2.11 |  |  | 3.87\% |
| 5/12/1981 | 13.50\% | 12.16\% |  | -2.11 |  |  | 1.34\% |
| 5/15/1981 | 15.75\% | 12.22\% |  | -2.10 |  |  | 3.53\% |
| 5/18/1981 | 14.88\% | 12.23\% |  | -2.10 |  |  | 2.65\% |
| 5/20/1981 | 16.00\% | 12.26\% |  | -2.10 |  |  | 3.74\% |
| 5/21/1981 | 14.00\% | 12.27\% |  | -2.10 |  |  | 1.73\% |
| 5/26/1981 | 14.90\% | 12.30\% |  | -2.10 |  |  | 2.60\% |
| 5/27/1981 | 15.00\% | 12.31\% |  | -2.09 |  |  | 2.69\% |
| 5/29/1981 | 15.50\% | 12.34\% |  | -2.09 |  |  | 3.16\% |
| 6/1/1981 | 16.50\% | 12.35\% |  | -2.09 |  |  | 4.15\% |
| 6/3/1981 | 14.67\% | 12.37\% |  | -2.09 |  |  | 2.30\% |
| 6/5/1981 | 13.00\% | 12.39\% |  | -2.09 |  |  | 0.61\% |
| 6/10/1981 | 16.75\% | 12.42\% |  | -2.09 |  |  | 4.33\% |
| 6/17/1981 | 14.40\% | 12.46\% |  | -2.08 |  |  | 1.94\% |
| 6/18/1981 | 16.33\% | 12.47\% |  | -2.08 |  |  | 3.86\% |
| 6/25/1981 | 14.75\% | 12.51\% |  | -2.08 |  |  | 2.24\% |
| 6/26/1981 | 16.00\% | 12.52\% |  | -2.08 |  |  | 3.48\% |
| 6/30/1981 | 15.25\% | 12.54\% |  | -2.08 |  |  | 2.71\% |
| 7/1/1981 | 15.50\% | 12.56\% |  | -2.07 |  |  | 2.94\% |


| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/1/1981 | 17.50\% | 12.56\% |  | -2.07 |  |  | 4.94\% |
| 7/10/1981 | 16.00\% | 12.62\% |  | -2.07 |  |  | 3.38\% |
| 7/14/1981 | 16.90\% | 12.64\% |  | -2.07 |  |  | 4.26\% |
| 7/15/1981 | 16.00\% | 12.65\% |  | -2.07 |  |  | 3.35\% |
| 7/17/1981 | 15.00\% | 12.67\% |  | -2.07 |  |  | 2.33\% |
| 7/20/1981 | 15.00\% | 12.68\% |  | -2.07 |  |  | 2.32\% |
| 7/21/1981 | 14.00\% | 12.69\% |  | -2.06 |  |  | 1.31\% |
| 7/28/1981 | 13.48\% | 12.74\% |  | -2.06 |  |  | 0.74\% |
| 7/31/1981 | 13.50\% | 12.78\% |  | -2.06 |  |  | 0.72\% |
| 7/31/1981 | 15.00\% | 12.78\% |  | -2.06 |  |  | 2.22\% |
| 7/31/1981 | 16.00\% | 12.78\% |  | -2.06 |  |  | 3.22\% |
| 8/5/1981 | 15.71\% | 12.83\% |  | -2.05 |  |  | 2.88\% |
| 8/10/1981 | 14.50\% | 12.87\% |  | -2.05 |  |  | 1.63\% |
| 8/11/1981 | 15.00\% | 12.88\% |  | -2.05 |  |  | 2.12\% |
| 8/20/1981 | 13.50\% | 12.95\% |  | -2.04 |  |  | 0.55\% |
| 8/20/1981 | 16.50\% | 12.95\% |  | -2.04 |  |  | 3.55\% |
| 8/24/1981 | 15.00\% | 12.97\% |  | -2.04 |  |  | 2.03\% |
| 8/28/1981 | 15.00\% | 13.01\% |  | -2.04 |  |  | 1.99\% |
| 9/3/1981 | 14.50\% | 13.05\% |  | -2.04 |  |  | 1.45\% |
| 9/10/1981 | 14.50\% | 13.11\% |  | -2.03 |  |  | 1.39\% |
| 9/11/1981 | 16.00\% | 13.12\% |  | -2.03 |  |  | 2.88\% |
| 9/16/1981 | 16.00\% | 13.15\% |  | -2.03 |  |  | 2.85\% |
| 9/17/1981 | 16.50\% | 13.16\% |  | -2.03 |  |  | 3.34\% |
| 9/23/1981 | 15.85\% | 13.20\% |  | -2.03 |  |  | 2.65\% |
| 9/28/1981 | 15.50\% | 13.23\% |  | -2.02 |  |  | 2.27\% |
| 10/9/1981 | 15.75\% | 13.33\% |  | -2.02 |  |  | 2.42\% |
| 10/15/1981 | 16.25\% | 13.37\% |  | -2.01 |  |  | 2.88\% |
| 10/16/1981 | 15.50\% | 13.38\% |  | -2.01 |  |  | 2.12\% |
| 10/16/1981 | 16.50\% | 13.38\% |  | -2.01 |  |  | 3.12\% |
| 10/19/1981 | 14.25\% | 13.39\% |  | -2.01 |  |  | 0.86\% |
| 10/20/1981 | 15.25\% | 13.41\% |  | -2.01 |  |  | 1.84\% |
| 10/20/1981 | 17.00\% | 13.41\% |  | -2.01 |  |  | 3.59\% |
| 10/23/1981 | 16.00\% | 13.45\% |  | -2.01 |  |  | 2.55\% |
| 10/27/1981 | 10.00\% | 13.48\% |  | -2.00 |  |  | -3.48\% |
| 10/29/1981 | 14.75\% | 13.51\% |  | -2.00 |  |  | 1.24\% |
| 10/29/1981 | 16.50\% | 13.51\% |  | -2.00 |  |  | 2.99\% |
| 11/3/1981 | 15.17\% | 13.53\% |  | -2.00 |  |  | 1.64\% |
| 11/5/1981 | 16.60\% | 13.55\% |  | -2.00 |  |  | 3.05\% |
| 11/6/1981 | 15.17\% | 13.56\% |  | -2.00 |  |  | 1.61\% |
| 11/24/1981 | 15.50\% | 13.61\% |  | -1.99 |  |  | 1.89\% |
| 11/25/1981 | 15.25\% | 13.61\% |  | -1.99 |  |  | 1.64\% |
| 11/25/1981 | 15.35\% | 13.61\% |  | -1.99 |  |  | 1.74\% |
| 11/25/1981 | 16.10\% | 13.61\% |  | -1.99 |  |  | 2.49\% |
| 11/25/1981 | 16.10\% | 13.61\% |  | -1.99 |  |  | 2.49\% |
| 12/1/1981 | 15.70\% | 13.61\% |  | -1.99 |  |  | 2.09\% |
| 12/1/1981 | 16.00\% | 13.61\% |  | -1.99 |  |  | 2.39\% |
| 12/1/1981 | 16.49\% | 13.61\% |  | -1.99 |  |  | 2.88\% |
| 12/1/1981 | 16.50\% | 13.61\% |  | -1.99 |  |  | 2.89\% |
| 12/4/1981 | 16.00\% | 13.61\% |  | -1.99 |  |  | 2.39\% |
| 12/11/1981 | 16.25\% | 13.63\% |  | -1.99 |  |  | 2.62\% |
| 12/14/1981 | 14.00\% | 13.63\% |  | -1.99 |  |  | 0.37\% |
| 12/15/1981 | 15.81\% | 13.63\% |  | -1.99 |  |  | 2.18\% |
| 12/15/1981 | 16.00\% | 13.63\% |  | -1.99 |  |  | 2.37\% |
| 12/16/1981 | 15.25\% | 13.63\% |  | -1.99 |  |  | 1.62\% |
| 12/17/1981 | 16.50\% | 13.63\% |  | -1.99 |  |  | 2.87\% |
| 12/18/1981 | 15.45\% | 13.63\% |  | -1.99 |  |  | 1.82\% |
| 12/30/1981 | 14.25\% | 13.67\% |  | -1.99 |  |  | 0.58\% |
| 12/30/1981 | 16.00\% | 13.67\% |  | -1.99 |  |  | 2.33\% |
| 12/30/1981 | 16.25\% | 13.67\% |  | -1.99 |  |  | 2.58\% |
| 12/31/1981 | 16.15\% | 13.67\% |  | -1.99 |  |  | 2.48\% |
| 1/4/1982 | 15.50\% | 13.67\% |  | -1.99 |  |  | 1.83\% |
| 1/11/1982 | 14.50\% | 13.72\% |  | -1.99 |  |  | 0.78\% |
| 1/11/1982 | 17.00\% | 13.72\% |  | -1.99 |  |  | 3.28\% |
| 1/13/1982 | 14.75\% | 13.74\% |  | -1.98 |  |  | 1.01\% |
| 1/14/1982 | 15.75\% | 13.75\% |  | -1.98 |  |  | 2.00\% |
| 1/15/1982 | 15.00\% | 13.76\% |  | -1.98 |  |  | 1.24\% |
| 1/15/1982 | 16.50\% | 13.76\% |  | -1.98 |  |  | 2.74\% |
| 1/22/1982 | 16.25\% | 13.79\% |  | -1.98 |  |  | 2.46\% |
| 1/27/1982 | 16.84\% | 13.81\% |  | -1.98 |  |  | 3.03\% |
| 1/28/1982 | 13.00\% | 13.81\% |  | -1.98 |  |  | -0.81\% |
| 1/29/1982 | 15.50\% | 13.82\% |  | -1.98 |  |  | 1.68\% |
| 2/1/1982 | 15.85\% | 13.82\% |  | -1.98 |  |  | 2.03\% |
| 2/3/1982 | 16.44\% | 13.84\% |  | -1.98 |  |  | 2.60\% |
| 2/8/1982 | 15.50\% | 13.86\% |  | -1.98 |  |  | 1.64\% |
| 2/11/1982 | 16.00\% | 13.88\% |  | -1.97 |  |  | 2.12\% |
| 2/11/1982 | 16.20\% | 13.88\% |  | -1.97 |  |  | 2.32\% |
| 2/17/1982 | 15.00\% | 13.89\% |  | -1.97 |  |  | 1.11\% |
| 2/19/1982 | 15.17\% | 13.89\% |  | -1.97 |  |  | 1.28\% |
| 2/26/1982 | 15.25\% | 13.89\% |  | -1.97 |  |  | 1.36\% |
| 3/1/1982 | 15.03\% | 13.89\% |  | -1.97 |  |  | 1.14\% |
| 3/1/1982 | 16.00\% | 13.89\% |  | -1.97 |  |  | 2.11\% |
| 3/3/1982 | 15.00\% | 13.88\% |  | -1.97 |  |  | 1.12\% |
| 3/8/1982 | 17.10\% | 13.88\% |  | -1.97 |  |  | 3.22\% |


| Date of Electric Rate Case |  | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/12/1982 | 16.25\% | 13.88\% |  | -1.97 |  |  | 2.37\% |
| 3/17/1982 | 17.30\% | 13.88\% |  | -1.97 |  |  | 3.42\% |
| 3/22/1982 | 15.10\% | 13.89\% |  | -1.97 |  |  | 1.21\% |
| 3/27/1982 | 15.40\% | 13.89\% |  | -1.97 |  |  | 1.51\% |
| 3/30/1982 | 15.50\% | 13.90\% |  | -1.97 |  |  | 1.60\% |
| 3/31/1982 | 17.00\% | 13.91\% |  | -1.97 |  |  | 3.09\% |
| 4/1/1982 | 14.70\% | 13.91\% |  | -1.97 |  |  | 0.79\% |
| 4/1/1982 | 16.50\% | 13.91\% |  | -1.97 |  |  | 2.59\% |
| 4/2/1982 | 15.50\% | 13.91\% |  | -1.97 |  |  | 1.59\% |
| 4/5/1982 | 15.50\% | 13.92\% |  | -1.97 |  |  | 1.58\% |
| 4/8/1982 | 16.40\% | 13.93\% |  | -1.97 |  |  | 2.47\% |
| 4/13/1982 | 14.50\% | 13.94\% |  | -1.97 |  |  | 0.56\% |
| 4/23/1982 | 15.75\% | 13.94\% |  | -1.97 |  |  | 1.81\% |
| 4/27/1982 | 15.00\% | 13.94\% |  | -1.97 |  |  | 1.06\% |
| 4/28/1982 | 15.75\% | 13.94\% |  | -1.97 |  |  | 1.81\% |
| 4/30/1982 | 14.70\% | 13.94\% |  | -1.97 |  |  | 0.76\% |
| 4/30/1982 | 15.50\% | 13.94\% |  | -1.97 |  |  | 1.56\% |
| 5/3/1982 | 16.60\% | 13.94\% |  | -1.97 |  |  | 2.66\% |
| 5/4/1982 | 16.00\% | 13.94\% |  | -1.97 |  |  | 2.06\% |
| 5/14/1982 | 15.50\% | 13.92\% |  | -1.97 |  |  | 1.58\% |
| 5/18/1982 | 15.42\% | 13.92\% |  | -1.97 |  |  | 1.50\% |
| 5/19/1982 | 14.69\% | 13.92\% |  | -1.97 |  |  | 0.77\% |
| 5/20/1982 | 15.00\% | 13.91\% |  | -1.97 |  |  | 1.09\% |
| 5/20/1982 | 15.10\% | 13.91\% |  | -1.97 |  |  | 1.19\% |
| 5/20/1982 | 15.50\% | 13.91\% |  | -1.97 |  |  | 1.59\% |
| 5/20/1982 | 16.30\% | 13.91\% |  | -1.97 |  |  | 2.39\% |
| 5/21/1982 | 17.75\% | 13.91\% |  | -1.97 |  |  | 3.84\% |
| 5/27/1982 | 15.00\% | 13.89\% |  | -1.97 |  |  | 1.11\% |
| 5/28/1982 | 15.50\% | 13.89\% |  | -1.97 |  |  | 1.61\% |
| 5/28/1982 | 17.00\% | 13.89\% |  | -1.97 |  |  | 3.11\% |
| 6/1/1982 | 13.75\% | 13.89\% |  | -1.97 |  |  | -0.14\% |
| 6/1/1982 | 16.60\% | 13.89\% |  | -1.97 |  |  | 2.71\% |
| 6/9/1982 | 17.86\% | 13.88\% |  | -1.97 |  |  | 3.98\% |
| 6/14/1982 | 15.75\% | 13.88\% |  | -1.97 |  |  | 1.87\% |
| 6/15/1982 | 14.85\% | 13.88\% |  | -1.97 |  |  | 0.97\% |
| 6/18/1982 | 15.50\% | 13.87\% |  | -1.98 |  |  | 1.63\% |
| 6/21/1982 | 14.90\% | 13.87\% |  | -1.98 |  |  | 1.03\% |
| 6/23/1982 | 16.00\% | 13.86\% |  | -1.98 |  |  | 2.14\% |
| 6/23/1982 | 16.17\% | 13.86\% |  | -1.98 |  |  | 2.31\% |
| 6/24/1982 | 14.85\% | 13.86\% |  | -1.98 |  |  | 0.99\% |
| 6/25/1982 | 14.70\% | 13.86\% |  | -1.98 |  |  | 0.84\% |
| 7/1/1982 | 16.00\% | 13.84\% |  | -1.98 |  |  | 2.16\% |
| 7/2/1982 | 15.62\% | 13.84\% |  | -1.98 |  |  | 1.78\% |
| 7/2/1982 | 17.00\% | 13.84\% |  | -1.98 |  |  | 3.16\% |
| 7/13/1982 | 14.00\% | 13.82\% |  | -1.98 |  |  | 0.18\% |
| 7/13/1982 | 16.80\% | 13.82\% |  | -1.98 |  |  | 2.98\% |
| 7/14/1982 | 15.76\% | 13.82\% |  | -1.98 |  |  | 1.94\% |
| 7/14/1982 | 16.02\% | 13.82\% |  | -1.98 |  |  | 2.20\% |
| 7/19/1982 | 16.50\% | 13.80\% |  | -1.98 |  |  | 2.70\% |
| 7/22/1982 | 14.50\% | 13.77\% |  | -1.98 |  |  | 0.73\% |
| 7/22/1982 | 17.00\% | 13.77\% |  | -1.98 |  |  | 3.23\% |
| 7/27/1982 | 16.75\% | 13.75\% |  | -1.98 |  |  | 3.00\% |
| 7/29/1982 | 16.50\% | 13.74\% |  | -1.99 |  |  | 2.76\% |
| 8/11/1982 | 17.50\% | 13.68\% |  | -1.99 |  |  | 3.82\% |
| 8/18/1982 | 17.07\% | 13.63\% |  | -1.99 |  |  | 3.44\% |
| 8/20/1982 | 15.73\% | 13.60\% |  | -1.99 |  |  | 2.13\% |
| 8/25/1982 | 16.00\% | 13.57\% |  | -2.00 |  |  | 2.43\% |
| 8/26/1982 | 15.50\% | 13.56\% |  | -2.00 |  |  | 1.94\% |
| 8/30/1982 | 15.00\% | 13.55\% |  | -2.00 |  |  | 1.45\% |
| 9/3/1982 | 16.20\% | 13.53\% |  | -2.00 |  |  | 2.67\% |
| 9/8/1982 | 15.00\% | 13.52\% |  | -2.00 |  |  | 1.48\% |
| 9/15/1982 | 13.08\% | 13.50\% |  | -2.00 |  |  | -0.42\% |
| 9/15/1982 | 16.25\% | 13.50\% |  | -2.00 |  |  | 2.75\% |
| 9/16/1982 | 16.00\% | 13.50\% |  | -2.00 |  |  | 2.50\% |
| 9/17/1982 | 15.25\% | 13.50\% |  | -2.00 |  |  | 1.75\% |
| 9/23/1982 | 17.17\% | 13.47\% |  | -2.00 |  |  | 3.70\% |
| 9/24/1982 | 14.50\% | 13.46\% |  | -2.01 |  |  | 1.04\% |
| 9/27/1982 | 15.25\% | 13.46\% |  | -2.01 |  |  | 1.79\% |
| 10/1/1982 | 15.50\% | 13.42\% |  | -2.01 |  |  | 2.08\% |
| 10/15/1982 | 15.90\% | 13.32\% |  | -2.02 |  |  | 2.58\% |
| 10/22/1982 | 15.75\% | 13.24\% |  | -2.02 |  |  | 2.51\% |
| 10/22/1982 | 17.15\% | 13.24\% |  | -2.02 |  |  | 3.91\% |
| 10/29/1982 | 15.54\% | 13.16\% |  | -2.03 |  |  | 2.38\% |
| 11/1/1982 | 15.50\% | 13.15\% |  | -2.03 |  |  | 2.35\% |
| 11/3/1982 | 17.20\% | 13.13\% |  | -2.03 |  |  | 4.07\% |
| 11/4/1982 | 16.25\% | 13.11\% |  | -2.03 |  |  | 3.14\% |
| 11/5/1982 | 16.20\% | 13.09\% |  | -2.03 |  |  | 3.11\% |
| 11/9/1982 | 16.00\% | 13.05\% |  | -2.04 |  |  | 2.95\% |
| 11/23/1982 | 15.50\% | 12.89\% |  | -2.05 |  |  | 2.61\% |
| 11/23/1982 | 15.85\% | 12.89\% |  | -2.05 |  |  | 2.96\% |
| 11/30/1982 | 16.50\% | 12.81\% |  | -2.06 |  |  | 3.69\% |
| 12/1/1982 | 17.04\% | 12.79\% |  | -2.06 |  |  | 4.25\% |
| 12/6/1982 | 15.00\% | 12.73\% |  | -2.06 |  |  | 2.27\% |


| Date of Electric Rate Case |  | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/6/1982 | 16.35\% | 12.73\% |  | -2.06 |  |  | 3.62\% |
| 12/10/1982 | 15.50\% | 12.66\% |  | -2.07 |  |  | 2.84\% |
| 12/13/1982 | 16.00\% | 12.65\% |  | -2.07 |  |  | 3.35\% |
| 12/14/1982 | 15.30\% | 12.63\% |  | -2.07 |  |  | 2.67\% |
| 12/14/1982 | 16.40\% | 12.63\% |  | -2.07 |  |  | 3.77\% |
| 12/20/1982 | 16.00\% | 12.57\% |  | -2.07 |  |  | 3.43\% |
| 12/21/1982 | 14.75\% | 12.56\% |  | -2.07 |  |  | 2.19\% |
| 12/21/1982 | 15.85\% | 12.56\% |  | -2.07 |  |  | 3.29\% |
| 12/22/1982 | 16.25\% | 12.54\% |  | -2.08 |  |  | 3.71\% |
| 12/22/1982 | 16.58\% | 12.54\% |  | -2.08 |  |  | 4.04\% |
| 12/22/1982 | 16.75\% | 12.54\% |  | -2.08 |  |  | 4.21\% |
| 12/29/1982 | 14.90\% | 12.48\% |  | -2.08 |  |  | 2.42\% |
| 12/29/1982 | 16.25\% | 12.48\% |  | -2.08 |  |  | 3.77\% |
| 12/30/1982 | 16.00\% | 12.47\% |  | -2.08 |  |  | 3.53\% |
| 12/30/1982 | 16.35\% | 12.47\% |  | -2.08 |  |  | 3.88\% |
| 12/30/1982 | 16.77\% | 12.47\% |  | -2.08 |  |  | 4.30\% |
| 1/5/1983 | 17.33\% | 12.40\% |  | -2.09 |  |  | 4.93\% |
| 1/11/1983 | 15.90\% | 12.34\% |  | -2.09 |  |  | 3.56\% |
| 1/12/1983 | 14.63\% | 12.33\% |  | -2.09 |  |  | 2.30\% |
| 1/12/1983 | 15.50\% | 12.33\% |  | -2.09 |  |  | 3.17\% |
| 1/20/1983 | 17.75\% | 12.24\% |  | -2.10 |  |  | 5.51\% |
| 1/21/1983 | 15.00\% | 12.22\% |  | -2.10 |  |  | 2.78\% |
| 1/24/1983 | 14.50\% | 12.21\% |  | -2.10 |  |  | 2.29\% |
| 1/24/1983 | 15.50\% | 12.21\% |  | -2.10 |  |  | 3.29\% |
| 1/25/1983 | 15.85\% | 12.19\% |  | -2.10 |  |  | 3.66\% |
| 1/27/1983 | 16.14\% | 12.17\% |  | -2.11 |  |  | 3.97\% |
| 2/1/1983 | 18.50\% | 12.13\% |  | -2.11 |  |  | 6.37\% |
| 2/4/1983 | 14.00\% | 12.10\% |  | -2.11 |  |  | 1.90\% |
| 2/10/1983 | 15.00\% | 12.06\% |  | -2.12 |  |  | 2.94\% |
| 2/21/1983 | 15.50\% | 11.98\% |  | -2.12 |  |  | 3.52\% |
| 2/22/1983 | 15.50\% | 11.97\% |  | -2.12 |  |  | 3.53\% |
| 2/23/1983 | 15.10\% | 11.96\% |  | -2.12 |  |  | 3.14\% |
| 2/23/1983 | 16.00\% | 11.96\% |  | -2.12 |  |  | 4.04\% |
| 3/2/1983 | 15.25\% | 11.89\% |  | -2.13 |  |  | 3.36\% |
| 3/9/1983 | 15.20\% | 11.82\% |  | -2.13 |  |  | 3.38\% |
| 3/15/1983 | 13.00\% | 11.77\% |  | -2.14 |  |  | 1.23\% |
| 3/18/1983 | 15.25\% | 11.73\% |  | -2.14 |  |  | 3.52\% |
| 3/23/1983 | 15.40\% | 11.69\% |  | -2.15 |  |  | 3.71\% |
| 3/24/1983 | 15.00\% | 11.67\% |  | -2.15 |  |  | 3.33\% |
| 3/29/1983 | 15.50\% | 11.63\% |  | -2.15 |  |  | 3.87\% |
| 3/30/1983 | 16.71\% | 11.61\% |  | -2.15 |  |  | 5.10\% |
| 3/31/1983 | 15.00\% | 11.59\% |  | -2.15 |  |  | 3.41\% |
| 4/4/1983 | 15.20\% | 11.58\% |  | -2.16 |  |  | 3.62\% |
| 4/8/1983 | 15.50\% | 11.51\% |  | -2.16 |  |  | 3.99\% |
| 4/11/1983 | 14.81\% | 11.49\% |  | -2.16 |  |  | 3.32\% |
| 4/19/1983 | 14.50\% | 11.38\% |  | -2.17 |  |  | 3.12\% |
| 4/20/1983 | 16.00\% | 11.36\% |  | -2.18 |  |  | 4.64\% |
| 4/29/1983 | 16.00\% | 11.24\% |  | -2.19 |  |  | 4.76\% |
| 5/1/1983 | 14.50\% | 11.24\% |  | -2.19 |  |  | 3.26\% |
| 5/9/1983 | 15.50\% | 11.15\% |  | -2.19 |  |  | 4.35\% |
| 5/11/1983 | 16.46\% | 11.12\% |  | -2.20 |  |  | 5.34\% |
| 5/12/1983 | 14.14\% | 11.11\% |  | -2.20 |  |  | 3.03\% |
| 5/18/1983 | 15.00\% | 11.05\% |  | -2.20 |  |  | 3.95\% |
| 5/23/1983 | 14.90\% | 11.01\% |  | -2.21 |  |  | 3.89\% |
| 5/23/1983 | 15.50\% | 11.01\% |  | -2.21 |  |  | 4.49\% |
| 5/25/1983 | 15.50\% | 10.98\% |  | -2.21 |  |  | 4.52\% |
| 5/27/1983 | 15.00\% | 10.96\% |  | -2.21 |  |  | 4.04\% |
| 5/31/1983 | 14.00\% | 10.95\% |  | -2.21 |  |  | 3.05\% |
| 5/31/1983 | 15.50\% | 10.95\% |  | -2.21 |  |  | 4.55\% |
| 6/2/1983 | 14.50\% | 10.93\% |  | -2.21 |  |  | 3.57\% |
| 6/17/1983 | 15.03\% | 10.84\% |  | -2.22 |  |  | 4.19\% |
| 7/1/1983 | 14.80\% | 10.78\% |  | -2.23 |  |  | 4.02\% |
| 7/1/1983 | 14.90\% | 10.78\% |  | -2.23 |  |  | 4.12\% |
| 7/8/1983 | 16.25\% | 10.76\% |  | -2.23 |  |  | 5.49\% |
| 7/13/1983 | 13.20\% | 10.75\% |  | -2.23 |  |  | 2.45\% |
| 7/19/1983 | 15.00\% | 10.74\% |  | -2.23 |  |  | 4.26\% |
| 7/19/1983 | 15.10\% | 10.74\% |  | -2.23 |  |  | 4.36\% |
| 7/25/1983 | 16.25\% | 10.73\% |  | -2.23 |  |  | 5.52\% |
| 7/28/1983 | 15.90\% | 10.74\% |  | -2.23 |  |  | 5.16\% |
| 8/3/1983 | 16.34\% | 10.75\% |  | -2.23 |  |  | 5.59\% |
| 8/3/1983 | 16.50\% | 10.75\% |  | -2.23 |  |  | 5.75\% |
| 8/19/1983 | 15.00\% | 10.80\% |  | -2.23 |  |  | 4.20\% |
| 8/22/1983 | 15.50\% | 10.80\% |  | -2.23 |  |  | 4.70\% |
| 8/22/1983 | 16.40\% | 10.80\% |  | -2.23 |  |  | 5.60\% |
| 8/31/1983 | 14.75\% | 10.84\% |  | -2.22 |  |  | 3.91\% |
| 9/7/1983 | 15.00\% | 10.86\% |  | -2.22 |  |  | 4.14\% |
| 9/14/1983 | 15.78\% | 10.89\% |  | -2.22 |  |  | 4.89\% |
| 9/16/1983 | 15.00\% | 10.90\% |  | -2.22 |  |  | 4.10\% |
| 9/19/1983 | 14.50\% | 10.91\% |  | -2.22 |  |  | 3.59\% |
| 9/20/1983 | 16.50\% | 10.91\% |  | -2.22 |  |  | 5.59\% |
| 9/28/1983 | 14.50\% | 10.94\% |  | -2.21 |  |  | 3.56\% |
| 9/29/1983 | 15.50\% | 10.95\% |  | -2.21 |  |  | 4.55\% |
| 9/30/1983 | 15.25\% | 10.95\% |  | -2.21 |  |  | 4.30\% |

Schedule RBH-7
Page 6 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/30/1983 | 16.15\% | 10.95\% |  | -2.21 |  |  | 5.20\% |
| 10/4/1983 | 14.80\% | 10.96\% |  | -2.21 |  |  | 3.84\% |
| 10/7/1983 | 16.00\% | 10.97\% |  | -2.21 |  |  | 5.03\% |
| 10/13/1983 | 15.52\% | 10.99\% |  | -2.21 |  |  | 4.53\% |
| 10/17/1983 | 15.50\% | 11.00\% |  | -2.21 |  |  | 4.50\% |
| 10/18/1983 | 14.50\% | 11.00\% |  | -2.21 |  |  | 3.50\% |
| 10/19/1983 | 16.25\% | 11.01\% |  | -2.21 |  |  | 5.24\% |
| 10/19/1983 | 16.50\% | 11.01\% |  | -2.21 |  |  | 5.49\% |
| 10/26/1983 | 15.00\% | 11.04\% |  | -2.20 |  |  | 3.96\% |
| 10/27/1983 | 15.20\% | 11.04\% |  | -2.20 |  |  | 4.16\% |
| 11/1/1983 | 16.00\% | 11.06\% |  | -2.20 |  |  | 4.94\% |
| 11/9/1983 | 14.90\% | 11.09\% |  | -2.20 |  |  | 3.81\% |
| 11/10/1983 | 14.35\% | 11.10\% |  | -2.20 |  |  | 3.25\% |
| 11/23/1983 | 16.00\% | 11.13\% |  | -2.20 |  |  | 4.87\% |
| 11/23/1983 | 16.15\% | 11.13\% |  | -2.20 |  |  | 5.02\% |
| 11/30/1983 | 15.00\% | 11.14\% |  | -2.19 |  |  | 3.86\% |
| 12/5/1983 | 15.25\% | 11.15\% |  | -2.19 |  |  | 4.10\% |
| 12/6/1983 | 15.07\% | 11.15\% |  | -2.19 |  |  | 3.92\% |
| 12/8/1983 | 15.90\% | 11.16\% |  | -2.19 |  |  | 4.74\% |
| 12/9/1983 | 14.75\% | 11.17\% |  | -2.19 |  |  | 3.58\% |
| 12/12/1983 | 14.50\% | 11.17\% |  | -2.19 |  |  | 3.33\% |
| 12/15/1983 | 15.56\% | 11.19\% |  | -2.19 |  |  | 4.37\% |
| 12/19/1983 | 14.80\% | 11.21\% |  | -2.19 |  |  | 3.59\% |
| 12/20/1983 | 14.69\% | 11.22\% |  | -2.19 |  |  | 3.47\% |
| 12/20/1983 | 16.00\% | 11.22\% |  | -2.19 |  |  | 4.78\% |
| 12/20/1983 | 16.25\% | 11.22\% |  | -2.19 |  |  | 5.03\% |
| 12/22/1983 | 14.75\% | 11.23\% |  | -2.19 |  |  | 3.52\% |
| 12/22/1983 | 15.75\% | 11.23\% |  | -2.19 |  |  | 4.52\% |
| 1/3/1984 | 14.75\% | 11.27\% |  | -2.18 |  |  | 3.48\% |
| 1/10/1984 | 15.90\% | 11.30\% |  | -2.18 |  |  | 4.60\% |
| 1/12/1984 | 15.60\% | 11.31\% |  | -2.18 |  |  | 4.29\% |
| 1/18/1984 | 13.75\% | 11.33\% |  | -2.18 |  |  | 2.42\% |
| 1/19/1984 | 15.90\% | 11.33\% |  | -2.18 |  |  | 4.57\% |
| 1/30/1984 | 16.10\% | 11.37\% |  | -2.17 |  |  | 4.73\% |
| 1/31/1984 | 15.25\% | 11.37\% |  | -2.17 |  |  | 3.88\% |
| 2/1/1984 | 14.80\% | 11.38\% |  | -2.17 |  |  | 3.42\% |
| 2/6/1984 | 13.75\% | 11.40\% |  | -2.17 |  |  | 2.35\% |
| 2/6/1984 | 14.75\% | 11.40\% |  | -2.17 |  |  | 3.35\% |
| 2/9/1984 | 15.25\% | 11.42\% |  | -2.17 |  |  | 3.83\% |
| 2/15/1984 | 15.70\% | 11.44\% |  | -2.17 |  |  | 4.26\% |
| 2/20/1984 | 15.00\% | 11.46\% |  | -2.17 |  |  | 3.54\% |
| 2/20/1984 | 15.00\% | 11.46\% |  | -2.17 |  |  | 3.54\% |
| 2/22/1984 | 14.75\% | 11.47\% |  | -2.17 |  |  | 3.28\% |
| 2/28/1984 | 14.50\% | 11.51\% |  | -2.16 |  |  | 2.99\% |
| 3/2/1984 | 14.25\% | 11.54\% |  | -2.16 |  |  | 2.71\% |
| 3/20/1984 | 16.00\% | 11.64\% |  | -2.15 |  |  | 4.36\% |
| 3/23/1984 | 15.50\% | 11.67\% |  | -2.15 |  |  | 3.83\% |
| 3/26/1984 | 14.71\% | 11.68\% |  | -2.15 |  |  | 3.03\% |
| 4/2/1984 | 15.50\% | 11.71\% |  | -2.14 |  |  | 3.79\% |
| 4/6/1984 | 14.74\% | 11.75\% |  | -2.14 |  |  | 2.99\% |
| 4/11/1984 | 15.72\% | 11.78\% |  | -2.14 |  |  | 3.94\% |
| 4/17/1984 | 15.00\% | 11.81\% |  | -2.14 |  |  | 3.19\% |
| 4/18/1984 | 16.20\% | 11.82\% |  | -2.14 |  |  | 4.38\% |
| 4/25/1984 | 14.64\% | 11.85\% |  | -2.13 |  |  | 2.79\% |
| 4/30/1984 | 14.40\% | 11.87\% |  | -2.13 |  |  | 2.53\% |
| 5/16/1984 | 14.69\% | 11.98\% |  | -2.12 |  |  | 2.71\% |
| 5/16/1984 | 15.00\% | 11.98\% |  | -2.12 |  |  | 3.02\% |
| 5/22/1984 | 14.40\% | 12.02\% |  | -2.12 |  |  | 2.38\% |
| 5/29/1984 | 15.10\% | 12.06\% |  | -2.12 |  |  | 3.04\% |
| 6/13/1984 | 15.25\% | 12.15\% |  | -2.11 |  |  | 3.10\% |
| 6/15/1984 | 15.60\% | 12.17\% |  | -2.11 |  |  | 3.43\% |
| 6/22/1984 | 16.25\% | 12.21\% |  | -2.10 |  |  | 4.04\% |
| 6/29/1984 | 15.25\% | 12.26\% |  | -2.10 |  |  | 2.99\% |
| 7/2/1984 | 13.35\% | 12.27\% |  | -2.10 |  |  | 1.08\% |
| 7/10/1984 | 16.00\% | 12.31\% |  | -2.09 |  |  | 3.69\% |
| 7/12/1984 | 16.50\% | 12.32\% |  | -2.09 |  |  | 4.18\% |
| 7/13/1984 | 16.25\% | 12.33\% |  | -2.09 |  |  | 3.92\% |
| 7/17/1984 | 14.14\% | 12.35\% |  | -2.09 |  |  | 1.79\% |
| 7/18/1984 | 15.30\% | 12.36\% |  | -2.09 |  |  | 2.94\% |
| 7/18/1984 | 15.50\% | 12.36\% |  | -2.09 |  |  | 3.14\% |
| 7/19/1984 | 14.30\% | 12.37\% |  | -2.09 |  |  | 1.93\% |
| 7/24/1984 | 16.79\% | 12.39\% |  | -2.09 |  |  | 4.40\% |
| 7/31/1984 | 16.00\% | 12.43\% |  | -2.09 |  |  | 3.57\% |
| 8/3/1984 | 14.25\% | 12.44\% |  | -2.08 |  |  | 1.81\% |
| 8/17/1984 | 14.30\% | 12.49\% |  | -2.08 |  |  | 1.81\% |
| 8/20/1984 | 15.00\% | 12.49\% |  | -2.08 |  |  | 2.51\% |
| 8/27/1984 | 16.30\% | 12.51\% |  | -2.08 |  |  | 3.79\% |
| 8/31/1984 | 15.55\% | 12.52\% |  | -2.08 |  |  | 3.03\% |
| 9/6/1984 | 16.00\% | 12.53\% |  | -2.08 |  |  | 3.47\% |
| 9/10/1984 | 14.75\% | 12.54\% |  | -2.08 |  |  | 2.21\% |
| 9/13/1984 | 15.00\% | 12.55\% |  | -2.08 |  |  | 2.45\% |
| 9/17/1984 | 17.38\% | 12.56\% |  | -2.08 |  |  | 4.82\% |
| 9/26/1984 | 14.50\% | 12.57\% |  | -2.07 |  |  | 1.93\% |

Schedule RBH-7
Page 7 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9/28/1984 | 15.00\% | 12.57\% |  | -2.07 |  |  | 2.43\% |
| 9/28/1984 | 16.25\% | 12.57\% |  | -2.07 |  |  | 3.68\% |
| 10/9/1984 | 14.75\% | 12.58\% |  | -2.07 |  |  | 2.17\% |
| 10/12/1984 | 15.60\% | 12.59\% |  | -2.07 |  |  | 3.01\% |
| 10/22/1984 | 15.00\% | 12.59\% |  | -2.07 |  |  | 2.41\% |
| 10/26/1984 | 16.40\% | 12.58\% |  | -2.07 |  |  | 3.82\% |
| 10/31/1984 | 16.25\% | 12.58\% |  | -2.07 |  |  | 3.67\% |
| 11/7/1984 | 15.60\% | 12.58\% |  | -2.07 |  |  | 3.02\% |
| 11/9/1984 | 16.00\% | 12.58\% |  | -2.07 |  |  | 3.42\% |
| 11/14/1984 | 15.75\% | 12.58\% |  | -2.07 |  |  | 3.17\% |
| 11/20/1984 | 15.25\% | 12.58\% |  | -2.07 |  |  | 2.67\% |
| 11/20/1984 | 15.92\% | 12.58\% |  | -2.07 |  |  | 3.34\% |
| 11/23/1984 | 15.00\% | 12.58\% |  | -2.07 |  |  | 2.42\% |
| 11/28/1984 | 16.15\% | 12.57\% |  | -2.07 |  |  | 3.58\% |
| 12/3/1984 | 15.80\% | 12.56\% |  | -2.07 |  |  | 3.24\% |
| 12/4/1984 | 16.50\% | 12.56\% |  | -2.07 |  |  | 3.94\% |
| 12/18/1984 | 16.40\% | 12.53\% |  | -2.08 |  |  | 3.87\% |
| 12/19/1984 | 14.75\% | 12.53\% |  | -2.08 |  |  | 2.22\% |
| 12/19/1984 | 15.00\% | 12.53\% |  | -2.08 |  |  | 2.47\% |
| 12/20/1984 | 16.00\% | 12.53\% |  | -2.08 |  |  | 3.47\% |
| 12/28/1984 | 16.00\% | 12.50\% |  | -2.08 |  |  | 3.50\% |
| 1/3/1985 | 14.75\% | 12.49\% |  | -2.08 |  |  | 2.26\% |
| 1/10/1985 | 15.75\% | 12.47\% |  | -2.08 |  |  | 3.28\% |
| 1/11/1985 | 16.30\% | 12.46\% |  | -2.08 |  |  | 3.84\% |
| 1/23/1985 | 15.80\% | 12.43\% |  | -2.08 |  |  | 3.37\% |
| 1/24/1985 | 15.82\% | 12.43\% |  | -2.09 |  |  | 3.39\% |
| 1/25/1985 | 16.75\% | 12.42\% |  | -2.09 |  |  | 4.33\% |
| 1/30/1985 | 14.90\% | 12.40\% |  | -2.09 |  |  | 2.50\% |
| 1/31/1985 | 14.75\% | 12.39\% |  | -2.09 |  |  | 2.36\% |
| 2/8/1985 | 14.47\% | 12.35\% |  | -2.09 |  |  | 2.12\% |
| 3/1/1985 | 13.84\% | 12.31\% |  | -2.10 |  |  | 1.53\% |
| 3/8/1985 | 16.85\% | 12.28\% |  | -2.10 |  |  | 4.57\% |
| 3/14/1985 | 15.50\% | 12.25\% |  | -2.10 |  |  | 3.25\% |
| 3/15/1985 | 15.62\% | 12.25\% |  | -2.10 |  |  | 3.37\% |
| 3/29/1985 | 15.62\% | 12.17\% |  | -2.11 |  |  | 3.45\% |
| 4/3/1985 | 14.60\% | 12.14\% |  | -2.11 |  |  | 2.46\% |
| 4/9/1985 | 15.50\% | 12.11\% |  | -2.11 |  |  | 3.39\% |
| 4/16/1985 | 15.70\% | 12.06\% |  | -2.12 |  |  | 3.64\% |
| 4/22/1985 | 14.00\% | 12.02\% |  | -2.12 |  |  | 1.98\% |
| 4/26/1985 | 15.50\% | 11.98\% |  | -2.12 |  |  | 3.52\% |
| 4/29/1985 | 15.00\% | 11.97\% |  | -2.12 |  |  | 3.03\% |
| 5/2/1985 | 14.68\% | 11.94\% |  | -2.13 |  |  | 2.74\% |
| 5/8/1985 | 15.62\% | 11.89\% |  | -2.13 |  |  | 3.73\% |
| 5/10/1985 | 16.50\% | 11.87\% |  | -2.13 |  |  | 4.63\% |
| 5/29/1985 | 14.61\% | 11.73\% |  | -2.14 |  |  | 2.88\% |
| 5/31/1985 | 16.00\% | 11.71\% |  | -2.14 |  |  | 4.29\% |
| 6/14/1985 | 15.50\% | 11.61\% |  | -2.15 |  |  | 3.89\% |
| 7/9/1985 | 15.00\% | 11.45\% |  | -2.17 |  |  | 3.55\% |
| 7/16/1985 | 14.50\% | 11.39\% |  | -2.17 |  |  | 3.11\% |
| 7/26/1985 | 14.50\% | 11.33\% |  | -2.18 |  |  | 3.17\% |
| 8/2/1985 | 14.80\% | 11.29\% |  | -2.18 |  |  | 3.51\% |
| 8/7/1985 | 15.00\% | 11.27\% |  | -2.18 |  |  | 3.73\% |
| 8/28/1985 | 14.25\% | 11.15\% |  | -2.19 |  |  | 3.10\% |
| 8/28/1985 | 15.50\% | 11.15\% |  | -2.19 |  |  | 4.35\% |
| 8/29/1985 | 14.50\% | 11.15\% |  | -2.19 |  |  | 3.35\% |
| 9/9/1985 | 14.60\% | 11.11\% |  | -2.20 |  |  | 3.49\% |
| 9/9/1985 | 14.90\% | 11.11\% |  | -2.20 |  |  | 3.79\% |
| 9/17/1985 | 14.90\% | 11.08\% |  | -2.20 |  |  | 3.82\% |
| 9/23/1985 | 15.00\% | 11.06\% |  | -2.20 |  |  | 3.94\% |
| 9/27/1985 | 15.50\% | 11.05\% |  | -2.20 |  |  | 4.45\% |
| 9/27/1985 | 15.80\% | 11.05\% |  | -2.20 |  |  | 4.75\% |
| 10/2/1985 | 14.00\% | 11.03\% |  | -2.20 |  |  | 2.97\% |
| 10/2/1985 | 14.75\% | 11.03\% |  | -2.20 |  |  | 3.72\% |
| 10/3/1985 | 15.25\% | 11.03\% |  | -2.20 |  |  | 4.22\% |
| 10/24/1985 | 15.40\% | 10.96\% |  | -2.21 |  |  | 4.44\% |
| 10/24/1985 | 15.82\% | 10.96\% |  | -2.21 |  |  | 4.86\% |
| 10/24/1985 | 15.85\% | 10.96\% |  | -2.21 |  |  | 4.89\% |
| 10/28/1985 | 16.00\% | 10.95\% |  | -2.21 |  |  | 5.05\% |
| 10/29/1985 | 16.65\% | 10.94\% |  | -2.21 |  |  | 5.71\% |
| 10/31/1985 | 15.06\% | 10.93\% |  | -2.21 |  |  | 4.13\% |
| 11/4/1985 | 14.50\% | 10.92\% |  | -2.21 |  |  | 3.58\% |
| 11/7/1985 | 15.50\% | 10.90\% |  | -2.22 |  |  | 4.60\% |
| 11/8/1985 | 14.30\% | 10.89\% |  | -2.22 |  |  | 3.41\% |
| 12/12/1985 | 14.75\% | 10.73\% |  | -2.23 |  |  | 4.02\% |
| 12/18/1985 | 15.00\% | 10.69\% |  | -2.24 |  |  | 4.31\% |
| 12/20/1985 | 14.50\% | 10.67\% |  | -2.24 |  |  | 3.83\% |
| 12/20/1985 | 14.50\% | 10.67\% |  | -2.24 |  |  | 3.83\% |
| 12/20/1985 | 15.00\% | 10.67\% |  | -2.24 |  |  | 4.33\% |
| 1/24/1986 | 15.40\% | 10.41\% |  | -2.26 |  |  | 4.99\% |
| 1/31/1986 | 15.00\% | 10.35\% |  | -2.27 |  |  | 4.65\% |
| 2/5/1986 | 15.00\% | 10.32\% |  | -2.27 |  |  | 4.68\% |
| 2/5/1986 | 15.75\% | 10.32\% |  | -2.27 |  |  | 5.43\% |
| 2/10/1986 | 13.30\% | 10.29\% |  | -2.27 |  |  | 3.01\% |

Schedule RBH-7
Page 8 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/11/1986 | 12.50\% | 10.28\% |  | -2.27 |  |  | 2.22\% |
| 2/14/1986 | 14.40\% | 10.24\% |  | -2.28 |  |  | 4.16\% |
| 2/18/1986 | 16.00\% | 10.23\% |  | -2.28 |  |  | 5.77\% |
| 2/24/1986 | 14.50\% | 10.18\% |  | -2.28 |  |  | 4.32\% |
| 2/26/1986 | 14.00\% | 10.15\% |  | -2.29 |  |  | 3.85\% |
| 3/5/1986 | 14.90\% | 10.08\% |  | -2.29 |  |  | 4.82\% |
| 3/11/1986 | 14.50\% | 10.02\% |  | -2.30 |  |  | 4.48\% |
| 3/12/1986 | 13.50\% | 10.00\% |  | -2.30 |  |  | 3.50\% |
| 3/27/1986 | 14.10\% | 9.86\% |  | -2.32 |  |  | 4.24\% |
| 3/31/1986 | 13.50\% | 9.84\% |  | -2.32 |  |  | 3.66\% |
| 4/1/1986 | 14.00\% | 9.83\% |  | -2.32 |  |  | 4.17\% |
| 4/2/1986 | 15.50\% | 9.81\% |  | -2.32 |  |  | 5.69\% |
| 4/4/1986 | 15.00\% | 9.78\% |  | -2.32 |  |  | 5.22\% |
| 4/14/1986 | 13.40\% | 9.69\% |  | -2.33 |  |  | 3.71\% |
| 4/23/1986 | 15.00\% | 9.57\% |  | -2.35 |  |  | 5.43\% |
| 5/16/1986 | 14.50\% | 9.32\% |  | -2.37 |  |  | 5.18\% |
| 5/16/1986 | 14.50\% | 9.32\% |  | -2.37 |  |  | 5.18\% |
| 5/29/1986 | 13.90\% | 9.19\% |  | -2.39 |  |  | 4.71\% |
| 5/30/1986 | 15.10\% | 9.18\% |  | -2.39 |  |  | 5.92\% |
| 6/2/1986 | 12.81\% | 9.17\% |  | -2.39 |  |  | 3.64\% |
| 6/11/1986 | 14.00\% | 9.07\% |  | -2.40 |  |  | 4.93\% |
| 6/24/1986 | 16.63\% | 8.94\% |  | -2.41 |  |  | 7.69\% |
| 6/26/1986 | 12.00\% | 8.91\% |  | -2.42 |  |  | 3.09\% |
| 6/26/1986 | 14.75\% | 8.91\% |  | -2.42 |  |  | 5.84\% |
| 6/30/1986 | 13.00\% | 8.87\% |  | -2.42 |  |  | 4.13\% |
| 7/10/1986 | 14.34\% | 8.75\% |  | -2.44 |  |  | 5.59\% |
| 7/11/1986 | 12.75\% | 8.73\% |  | -2.44 |  |  | 4.02\% |
| 7/14/1986 | 12.60\% | 8.71\% |  | -2.44 |  |  | 3.89\% |
| 7/17/1986 | 12.40\% | 8.66\% |  | -2.45 |  |  | 3.74\% |
| 7/25/1986 | 14.25\% | 8.57\% |  | -2.46 |  |  | 5.68\% |
| 8/6/1986 | 13.50\% | 8.44\% |  | -2.47 |  |  | 5.06\% |
| 8/14/1986 | 13.50\% | 8.35\% |  | -2.48 |  |  | 5.15\% |
| 9/16/1986 | 12.75\% | 8.06\% |  | -2.52 |  |  | 4.69\% |
| 9/19/1986 | 13.25\% | 8.03\% |  | -2.52 |  |  | 5.22\% |
| 10/1/1986 | 14.00\% | 7.95\% |  | -2.53 |  |  | 6.05\% |
| 10/3/1986 | 13.40\% | 7.93\% |  | -2.53 |  |  | 5.47\% |
| 10/31/1986 | 13.50\% | 7.77\% |  | -2.55 |  |  | 5.73\% |
| 11/5/1986 | 13.00\% | 7.75\% |  | -2.56 |  |  | 5.25\% |
| 12/3/1986 | 12.90\% | 7.58\% |  | -2.58 |  |  | 5.32\% |
| 12/4/1986 | 14.44\% | 7.58\% |  | -2.58 |  |  | 6.86\% |
| 12/16/1986 | 13.60\% | 7.52\% |  | -2.59 |  |  | 6.08\% |
| 12/22/1986 | 13.80\% | 7.51\% |  | -2.59 |  |  | 6.29\% |
| 12/30/1986 | 13.00\% | 7.49\% |  | -2.59 |  |  | 5.51\% |
| 1/2/1987 | 13.00\% | 7.49\% |  | -2.59 |  |  | 5.51\% |
| 1/12/1987 | 12.40\% | 7.47\% |  | -2.59 |  |  | 4.93\% |
| 1/27/1987 | 12.71\% | 7.46\% |  | -2.60 |  |  | 5.25\% |
| 3/2/1987 | 12.47\% | 7.47\% |  | -2.59 |  |  | 5.00\% |
| 3/3/1987 | 13.60\% | 7.47\% |  | -2.59 |  |  | 6.13\% |
| 3/4/1987 | 12.38\% | 7.47\% |  | -2.59 |  |  | 4.91\% |
| 3/10/1987 | 13.50\% | 7.47\% |  | -2.59 |  |  | 6.03\% |
| 3/13/1987 | 13.00\% | 7.47\% |  | -2.59 |  |  | 5.53\% |
| 3/31/1987 | 13.00\% | 7.46\% |  | -2.59 |  |  | 5.54\% |
| 4/6/1987 | 13.00\% | 7.47\% |  | -2.59 |  |  | 5.53\% |
| 4/14/1987 | 12.50\% | 7.49\% |  | -2.59 |  |  | 5.01\% |
| 4/16/1987 | 14.50\% | 7.50\% |  | -2.59 |  |  | 7.00\% |
| 4/27/1987 | 12.00\% | 7.54\% |  | -2.59 |  |  | 4.46\% |
| 5/5/1987 | 12.85\% | 7.58\% |  | -2.58 |  |  | 5.27\% |
| 5/12/1987 | 12.65\% | 7.62\% |  | -2.57 |  |  | 5.03\% |
| 5/28/1987 | 13.50\% | 7.70\% |  | -2.56 |  |  | 5.80\% |
| 6/15/1987 | 13.20\% | 7.78\% |  | -2.55 |  |  | 5.42\% |
| 6/29/1987 | 15.00\% | 7.83\% |  | -2.55 |  |  | 7.17\% |
| 6/30/1987 | 12.50\% | 7.84\% |  | -2.55 |  |  | 4.66\% |
| 7/8/1987 | 12.00\% | 7.86\% |  | -2.54 |  |  | 4.14\% |
| 7/10/1987 | 12.90\% | 7.86\% |  | -2.54 |  |  | 5.04\% |
| 7/15/1987 | 13.50\% | 7.88\% |  | -2.54 |  |  | 5.62\% |
| 7/16/1987 | 13.50\% | 7.88\% |  | -2.54 |  |  | 5.62\% |
| 7/16/1987 | 15.00\% | 7.88\% |  | -2.54 |  |  | 7.12\% |
| 7/27/1987 | 13.00\% | 7.92\% |  | -2.54 |  |  | 5.08\% |
| 7/27/1987 | 13.40\% | 7.92\% |  | -2.54 |  |  | 5.48\% |
| 7/27/1987 | 13.50\% | 7.92\% |  | -2.54 |  |  | 5.58\% |
| 7/31/1987 | 12.98\% | 7.95\% |  | -2.53 |  |  | 5.03\% |
| 8/26/1987 | 12.63\% | 8.06\% |  | -2.52 |  |  | 4.57\% |
| 8/26/1987 | 12.75\% | 8.06\% |  | -2.52 |  |  | 4.69\% |
| 8/27/1987 | 13.25\% | 8.06\% |  | -2.52 |  |  | 5.19\% |
| 9/9/1987 | 13.00\% | 8.14\% |  | -2.51 |  |  | 4.86\% |
| 9/30/1987 | 12.75\% | 8.31\% |  | -2.49 |  |  | 4.44\% |
| 9/30/1987 | 13.00\% | 8.31\% |  | -2.49 |  |  | 4.69\% |
| 10/2/1987 | 11.50\% | 8.33\% |  | -2.49 |  |  | 3.17\% |
| 10/15/1987 | 13.00\% | 8.43\% |  | -2.47 |  |  | 4.57\% |
| 11/2/1987 | 13.00\% | 8.55\% |  | -2.46 |  |  | 4.45\% |
| 11/19/1987 | 13.00\% | 8.64\% |  | -2.45 |  |  | 4.36\% |
| 11/30/1987 | 12.00\% | 8.68\% |  | -2.44 |  |  | 3.32\% |
| 12/3/1987 | 14.20\% | 8.70\% |  | -2.44 |  |  | 5.50\% |

Schedule RBH-7
Page 9 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] <br> 30 Year <br> Treasury <br> (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year <br> Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/15/1987 | 13.25\% | 8.77\% |  | -2.43 |  |  | 4.48\% |
| 12/16/1987 | 13.50\% | 8.78\% |  | -2.43 |  |  | 4.72\% |
| 12/16/1987 | 13.72\% | 8.78\% |  | -2.43 |  |  | 4.94\% |
| 12/17/1987 | 11.75\% | 8.79\% |  | -2.43 |  |  | 2.96\% |
| 12/18/1987 | 13.50\% | 8.80\% |  | -2.43 |  |  | 4.70\% |
| 12/21/1987 | 12.01\% | 8.81\% |  | -2.43 |  |  | 3.20\% |
| 12/22/1987 | 12.00\% | 8.81\% |  | -2.43 |  |  | 3.19\% |
| 12/22/1987 | 12.00\% | 8.81\% |  | -2.43 |  |  | 3.19\% |
| 12/22/1987 | 12.75\% | 8.81\% |  | -2.43 |  |  | 3.94\% |
| 12/22/1987 | 13.00\% | 8.81\% |  | -2.43 |  |  | 4.19\% |
| 1/20/1988 | 13.80\% | 8.94\% |  | -2.42 |  |  | 4.86\% |
| 1/26/1988 | 13.90\% | 8.95\% |  | -2.41 |  |  | 4.95\% |
| 1/29/1988 | 13.20\% | 8.96\% |  | -2.41 |  |  | 4.24\% |
| 2/4/1988 | 12.60\% | 8.96\% |  | -2.41 |  |  | 3.64\% |
| 3/1/1988 | 11.56\% | 8.94\% |  | -2.41 |  |  | 2.62\% |
| 3/23/1988 | 12.87\% | 8.92\% |  | -2.42 |  |  | 3.95\% |
| 3/24/1988 | 11.24\% | 8.92\% |  | -2.42 |  |  | 2.32\% |
| 3/30/1988 | 12.72\% | 8.92\% |  | -2.42 |  |  | 3.80\% |
| 4/1/1988 | 12.50\% | 8.92\% |  | -2.42 |  |  | 3.58\% |
| 4/7/1988 | 13.25\% | 8.93\% |  | -2.42 |  |  | 4.32\% |
| 4/25/1988 | 10.96\% | 8.96\% |  | -2.41 |  |  | 2.00\% |
| 5/3/1988 | 12.91\% | 8.97\% |  | -2.41 |  |  | 3.94\% |
| 5/11/1988 | 13.50\% | 8.99\% |  | -2.41 |  |  | 4.51\% |
| 5/16/1988 | 13.00\% | 8.99\% |  | -2.41 |  |  | 4.01\% |
| 6/30/1988 | 12.75\% | 9.00\% |  | -2.41 |  |  | 3.75\% |
| 7/1/1988 | 12.75\% | 8.99\% |  | -2.41 |  |  | 3.76\% |
| 7/20/1988 | 13.40\% | 8.96\% |  | -2.41 |  |  | 4.44\% |
| 8/5/1988 | 12.75\% | 8.92\% |  | -2.42 |  |  | 3.83\% |
| 8/23/1988 | 11.70\% | 8.93\% |  | -2.42 |  |  | 2.77\% |
| 8/29/1988 | 12.75\% | 8.94\% |  | -2.41 |  |  | 3.81\% |
| 8/30/1988 | 13.50\% | 8.94\% |  | -2.41 |  |  | 4.56\% |
| 9/8/1988 | 12.60\% | 8.95\% |  | -2.41 |  |  | 3.65\% |
| 10/13/1988 | 13.10\% | 8.93\% |  | -2.42 |  |  | 4.17\% |
| 12/19/1988 | 13.00\% | 9.02\% |  | -2.41 |  |  | 3.98\% |
| 12/20/1988 | 12.25\% | 9.02\% |  | -2.41 |  |  | 3.23\% |
| 12/20/1988 | 13.00\% | 9.02\% |  | -2.41 |  |  | 3.98\% |
| 12/21/1988 | 12.90\% | 9.02\% |  | -2.41 |  |  | 3.88\% |
| 12/27/1988 | 13.00\% | 9.03\% |  | -2.40 |  |  | 3.97\% |
| 12/28/1988 | 13.10\% | 9.03\% |  | -2.40 |  |  | 4.07\% |
| 12/30/1988 | 13.40\% | 9.04\% |  | -2.40 |  |  | 4.36\% |
| 1/27/1989 | 13.00\% | 9.05\% |  | -2.40 |  |  | 3.95\% |
| 1/31/1989 | 13.00\% | 9.05\% |  | -2.40 |  |  | 3.95\% |
| 2/17/1989 | 13.00\% | 9.05\% |  | -2.40 |  |  | 3.95\% |
| 2/20/1989 | 12.40\% | 9.05\% |  | -2.40 |  |  | 3.35\% |
| 3/1/1989 | 12.76\% | 9.05\% |  | -2.40 |  |  | 3.71\% |
| 3/8/1989 | 13.00\% | 9.05\% |  | -2.40 |  |  | 3.95\% |
| 3/30/1989 | 14.00\% | 9.05\% |  | -2.40 |  |  | 4.95\% |
| 4/5/1989 | 14.20\% | 9.05\% |  | -2.40 |  |  | 5.15\% |
| 4/18/1989 | 13.00\% | 9.05\% |  | -2.40 |  |  | 3.95\% |
| 5/5/1989 | 12.40\% | 9.05\% |  | -2.40 |  |  | 3.35\% |
| 6/2/1989 | 13.20\% | 9.00\% |  | -2.41 |  |  | 4.20\% |
| 6/8/1989 | 13.50\% | 8.98\% |  | -2.41 |  |  | 4.52\% |
| 6/27/1989 | 13.25\% | 8.91\% |  | -2.42 |  |  | 4.34\% |
| 6/30/1989 | 13.00\% | 8.90\% |  | -2.42 |  |  | 4.10\% |
| 8/14/1989 | 12.50\% | 8.77\% |  | -2.43 |  |  | 3.73\% |
| 9/28/1989 | 12.25\% | 8.63\% |  | -2.45 |  |  | 3.62\% |
| 10/24/1989 | 12.50\% | 8.54\% |  | -2.46 |  |  | 3.96\% |
| 11/9/1989 | 13.00\% | 8.49\% |  | -2.47 |  |  | 4.51\% |
| 12/15/1989 | 13.00\% | 8.34\% |  | -2.48 |  |  | 4.66\% |
| 12/20/1989 | 12.90\% | 8.32\% |  | -2.49 |  |  | 4.58\% |
| 12/21/1989 | 12.90\% | 8.31\% |  | -2.49 |  |  | 4.59\% |
| 12/27/1989 | 12.50\% | 8.29\% |  | -2.49 |  |  | 4.21\% |
| 12/27/1989 | 13.00\% | 8.29\% |  | -2.49 |  |  | 4.71\% |
| 1/10/1990 | 12.80\% | 8.24\% |  | -2.50 |  | 19.95 | 4.56\% |
| 1/11/1990 | 12.90\% | 8.24\% |  | -2.50 |  | 19.96 | 4.66\% |
| 1/17/1990 | 12.80\% | 8.22\% |  | -2.50 |  | 21.59 | 4.58\% |
| 1/26/1990 | 12.00\% | 8.20\% |  | -2.50 |  | 22.87 | 3.80\% |
| 2/9/1990 | 12.10\% | 8.17\% |  | -2.50 |  | 23.58 | 3.93\% |
| 2/24/1990 | 12.86\% | 8.15\% |  | -2.51 |  | 23.35 | 4.71\% |
| 3/30/1990 | 12.90\% | 8.16\% |  | -2.51 |  | 22.17 | 4.74\% |
| 4/4/1990 | 15.76\% | 8.17\% |  | -2.51 |  | 22.16 | 7.59\% |
| 4/12/1990 | 12.52\% | 8.18\% |  | -2.50 |  | 22.04 | 4.34\% |
| 4/19/1990 | 12.75\% | 8.20\% |  | -2.50 |  | 22.01 | 4.55\% |
| 5/21/1990 | 12.10\% | 8.28\% |  | -2.49 |  | 21.42 | 3.82\% |
| 5/29/1990 | 12.40\% | 8.30\% |  | -2.49 |  | 21.25 | 4.10\% |
| 5/31/1990 | 12.00\% | 8.30\% |  | -2.49 |  | 21.17 | 3.70\% |
| 6/4/1990 | 12.90\% | 8.30\% |  | -2.49 |  | 21.11 | 4.60\% |
| 6/6/1990 | 12.25\% | 8.31\% |  | -2.49 |  | 21.06 | 3.94\% |
| 6/15/1990 | 13.20\% | 8.32\% |  | -2.49 |  | 20.80 | 4.88\% |
| 6/20/1990 | 12.92\% | 8.32\% |  | -2.49 |  | 20.68 | 4.60\% |
| 6/27/1990 | 12.90\% | 8.33\% |  | -2.49 |  | 20.52 | 4.57\% |
| 6/29/1990 | 12.50\% | 8.33\% |  | -2.48 |  | 20.45 | 4.17\% |
| 7/6/1990 | 12.10\% | 8.34\% |  | -2.48 |  | 20.33 | 3.76\% |

Schedule RBH-7
Page 10 of 20

| Date of Electric Rate Case | [6] <br> Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/6/1990 | 12.35\% | 8.34\% |  | -2.48 |  | 20.33 | 4.01\% |
| 8/10/1990 | 12.55\% | 8.41\% |  | -2.48 |  | 20.52 | 4.14\% |
| 8/16/1990 | 13.21\% | 8.43\% |  | -2.47 |  | 20.64 | 4.78\% |
| 8/22/1990 | 13.10\% | 8.45\% |  | -2.47 |  | 20.82 | 4.65\% |
| 8/24/1990 | 13.00\% | 8.46\% |  | -2.47 |  | 21.00 | 4.54\% |
| 9/26/1990 | 11.45\% | 8.59\% |  | -2.45 |  | 21.96 | 2.86\% |
| 10/2/1990 | 13.00\% | 8.61\% |  | -2.45 |  | 22.09 | 4.39\% |
| 10/5/1990 | 12.84\% | 8.62\% |  | -2.45 |  | 22.18 | 4.22\% |
| 10/19/1990 | 13.00\% | 8.67\% |  | -2.45 |  | 22.68 | 4.33\% |
| 10/25/1990 | 12.30\% | 8.68\% |  | -2.44 |  | 22.81 | 3.62\% |
| 11/21/1990 | 12.70\% | 8.69\% |  | -2.44 |  | 22.98 | 4.01\% |
| 12/13/1990 | 12.30\% | 8.67\% |  | -2.44 |  | 22.96 | 3.63\% |
| 12/17/1990 | 12.87\% | 8.67\% |  | -2.45 |  | 22.99 | 4.20\% |
| 12/18/1990 | 13.10\% | 8.67\% |  | -2.45 |  | 23.00 | 4.43\% |
| 12/19/1990 | 12.00\% | 8.66\% |  | -2.45 |  | 23.02 | 3.34\% |
| 12/20/1990 | 12.75\% | 8.66\% |  | -2.45 |  | 23.04 | 4.09\% |
| 12/21/1990 | 12.50\% | 8.66\% |  | -2.45 |  | 23.05 | 3.84\% |
| 12/27/1990 | 12.79\% | 8.66\% |  | -2.45 |  | 23.11 | 4.13\% |
| 1/2/1991 | 13.10\% | 8.65\% |  | -2.45 |  | 23.23 | 4.45\% |
| 1/4/1991 | 12.50\% | 8.65\% |  | -2.45 |  | 23.31 | 3.85\% |
| 1/15/1991 | 12.75\% | 8.64\% |  | -2.45 |  | 23.74 | 4.11\% |
| 1/25/1991 | 11.70\% | 8.63\% |  | -2.45 |  | 23.92 | 3.07\% |
| 2/4/1991 | 12.50\% | 8.60\% |  | -2.45 |  | 23.93 | 3.90\% |
| 2/7/1991 | 12.50\% | 8.59\% |  | -2.45 |  | 23.93 | 3.91\% |
| 2/12/1991 | 13.00\% | 8.58\% |  | -2.46 |  | 23.96 | 4.43\% |
| 2/14/1991 | 12.72\% | 8.57\% |  | -2.46 |  | 23.98 | 4.15\% |
| 2/22/1991 | 12.80\% | 8.55\% |  | -2.46 |  | 24.05 | 4.25\% |
| 3/6/1991 | 13.10\% | 8.53\% |  | -2.46 |  | 24.14 | 4.57\% |
| 3/8/1991 | 12.30\% | 8.52\% |  | -2.46 |  | 24.18 | 3.78\% |
| 3/8/1991 | 13.00\% | 8.52\% |  | -2.46 |  | 24.18 | 4.48\% |
| 4/22/1991 | 13.00\% | 8.49\% |  | -2.47 |  | 24.19 | 4.51\% |
| 5/7/1991 | 13.50\% | 8.47\% |  | -2.47 |  | 24.21 | 5.03\% |
| 5/13/1991 | 13.25\% | 8.47\% |  | -2.47 |  | 24.13 | 4.78\% |
| 5/30/1991 | 12.75\% | 8.44\% |  | -2.47 |  | 23.59 | 4.31\% |
| 6/12/1991 | 12.00\% | 8.41\% |  | -2.48 |  | 23.06 | 3.59\% |
| 6/25/1991 | 11.70\% | 8.39\% |  | -2.48 |  | 22.50 | 3.31\% |
| 6/28/1991 | 12.50\% | 8.38\% |  | -2.48 |  | 22.35 | 4.12\% |
| 7/1/1991 | 12.00\% | 8.38\% |  | -2.48 |  | 22.30 | 3.62\% |
| 7/3/1991 | 12.50\% | 8.37\% |  | -2.48 |  | 22.18 | 4.13\% |
| 7/19/1991 | 12.10\% | 8.34\% |  | -2.48 |  | 21.59 | 3.76\% |
| 8/1/1991 | 12.90\% | 8.32\% |  | -2.49 |  | 20.95 | 4.58\% |
| 8/16/1991 | 13.20\% | 8.29\% |  | -2.49 |  | 20.17 | 4.91\% |
| 9/27/1991 | 12.50\% | 8.23\% |  | -2.50 |  | 19.03 | 4.27\% |
| 9/30/1991 | 12.25\% | 8.23\% |  | -2.50 |  | 19.01 | 4.02\% |
| 10/17/1991 | 13.00\% | 8.20\% |  | -2.50 |  | 18.52 | 4.80\% |
| 10/23/1991 | 12.50\% | 8.20\% |  | -2.50 |  | 18.27 | 4.30\% |
| 10/23/1991 | 12.55\% | 8.20\% |  | -2.50 |  | 18.27 | 4.35\% |
| 10/31/1991 | 11.80\% | 8.19\% |  | -2.50 |  | 17.73 | 3.61\% |
| 11/1/1991 | 12.00\% | 8.19\% |  | -2.50 |  | 17.67 | 3.81\% |
| 11/5/1991 | 12.25\% | 8.19\% |  | -2.50 |  | 17.58 | 4.06\% |
| 11/12/1991 | 12.50\% | 8.18\% |  | -2.50 |  | 17.38 | 4.32\% |
| 11/12/1991 | 13.25\% | 8.18\% |  | -2.50 |  | 17.38 | 5.07\% |
| 11/25/1991 | 12.40\% | 8.18\% |  | -2.50 |  | 17.24 | 4.22\% |
| 11/26/1991 | 11.60\% | 8.18\% |  | -2.50 |  | 17.22 | 3.42\% |
| 11/26/1991 | 12.50\% | 8.18\% |  | -2.50 |  | 17.22 | 4.32\% |
| 11/27/1991 | 12.10\% | 8.18\% |  | -2.50 |  | 17.21 | 3.92\% |
| 12/18/1991 | 12.25\% | 8.15\% |  | -2.51 |  | 17.09 | 4.10\% |
| 12/19/1991 | 12.60\% | 8.15\% |  | -2.51 |  | 17.08 | 4.45\% |
| 12/19/1991 | 12.80\% | 8.15\% |  | -2.51 |  | 17.08 | 4.65\% |
| 12/20/1991 | 12.65\% | 8.14\% |  | -2.51 |  | 17.06 | 4.51\% |
| 1/9/1992 | 12.80\% | 8.09\% |  | -2.51 |  | 17.13 | 4.71\% |
| 1/16/1992 | 12.75\% | 8.07\% |  | -2.52 |  | 17.14 | 4.68\% |
| 1/21/1992 | 12.00\% | 8.06\% |  | -2.52 |  | 17.13 | 3.94\% |
| 1/22/1992 | 13.00\% | 8.06\% |  | -2.52 |  | 17.12 | 4.94\% |
| 1/27/1992 | 12.65\% | 8.05\% |  | -2.52 |  | 17.08 | 4.60\% |
| 1/31/1992 | 12.00\% | 8.04\% |  | -2.52 |  | 17.12 | 3.96\% |
| 2/11/1992 | 12.40\% | 8.03\% |  | -2.52 |  | 17.16 | 4.37\% |
| 2/25/1992 | 12.50\% | 8.01\% |  | -2.52 |  | 17.14 | 4.49\% |
| 3/16/1992 | 11.43\% | 7.98\% |  | -2.53 |  | 17.25 | 3.45\% |
| 3/18/1992 | 12.28\% | 7.98\% |  | -2.53 |  | 17.25 | 4.30\% |
| 4/2/1992 | 12.10\% | 7.95\% |  | -2.53 |  | 17.23 | 4.15\% |
| 4/9/1992 | 11.45\% | 7.94\% |  | -2.53 |  | 17.25 | 3.51\% |
| 4/10/1992 | 11.50\% | 7.93\% |  | -2.53 |  | 17.24 | 3.57\% |
| 4/14/1992 | 11.50\% | 7.93\% |  | -2.53 |  | 17.22 | 3.57\% |
| 5/5/1992 | 11.50\% | 7.89\% |  | -2.54 |  | 17.08 | 3.61\% |
| 5/12/1992 | 11.87\% | 7.88\% |  | -2.54 |  | 17.08 | 3.99\% |
| 5/12/1992 | 12.46\% | 7.88\% |  | -2.54 |  | 17.08 | 4.58\% |
| 6/1/1992 | 12.30\% | 7.87\% |  | -2.54 |  | 17.01 | 4.43\% |
| 6/12/1992 | 10.90\% | 7.86\% |  | -2.54 |  | 16.96 | 3.04\% |
| 6/26/1992 | 12.35\% | 7.85\% |  | -2.54 |  | 16.91 | 4.50\% |
| 6/29/1992 | 11.00\% | 7.85\% |  | -2.54 |  | 16.89 | 3.15\% |
| 6/30/1992 | 13.00\% | 7.85\% |  | -2.55 |  | 16.87 | 5.15\% |
| 7/13/1992 | 11.90\% | 7.84\% |  | -2.55 |  | 16.78 | 4.06\% |


| Date of Electric Rate Case | [6] <br> Return on Equity (\%) | [7] <br> 30 Year <br> Treasury <br> (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/13/1992 | 13.50\% | 7.84\% |  | -2.55 |  | 16.78 | 5.66\% |
| 7/22/1992 | 11.20\% | 7.83\% |  | -2.55 |  | 16.66 | 3.37\% |
| 8/3/1992 | 12.00\% | 7.81\% |  | -2.55 |  | 16.51 | 4.19\% |
| 8/6/1992 | 12.50\% | 7.80\% |  | -2.55 |  | 16.48 | 4.70\% |
| 9/22/1992 | 12.00\% | 7.71\% |  | -2.56 |  | 15.90 | 4.29\% |
| 9/28/1992 | 11.40\% | 7.71\% |  | -2.56 |  | 15.79 | 3.69\% |
| 9/30/1992 | 11.75\% | 7.70\% |  | -2.56 |  | 15.76 | 4.05\% |
| 10/2/1992 | 13.00\% | 7.70\% |  | -2.56 |  | 15.75 | 5.30\% |
| 10/12/1992 | 12.20\% | 7.70\% |  | -2.56 |  | 15.86 | 4.50\% |
| 10/16/1992 | 13.16\% | 7.70\% |  | -2.56 |  | 15.84 | 5.46\% |
| 10/30/1992 | 11.75\% | 7.71\% |  | -2.56 |  | 15.75 | 4.04\% |
| 11/3/1992 | 12.00\% | 7.71\% |  | -2.56 |  | 15.75 | 4.29\% |
| 12/3/1992 | 11.85\% | 7.68\% |  | -2.57 |  | 15.37 | 4.17\% |
| 12/15/1992 | 11.00\% | 7.66\% |  | -2.57 |  | 15.19 | 3.34\% |
| 12/16/1992 | 11.90\% | 7.66\% |  | -2.57 |  | 15.16 | 4.24\% |
| 12/16/1992 | 12.40\% | 7.66\% |  | -2.57 |  | 15.16 | 4.74\% |
| 12/17/1992 | 12.00\% | 7.66\% |  | -2.57 |  | 15.13 | 4.34\% |
| 12/22/1992 | 12.30\% | 7.65\% |  | -2.57 |  | 15.01 | 4.65\% |
| 12/22/1992 | 12.40\% | 7.65\% |  | -2.57 |  | 15.01 | 4.75\% |
| 12/29/1992 | 12.25\% | 7.63\% | 8.36\% | -2.57 | 0.73\% | 14.87 | 4.62\% |
| 12/30/1992 | 12.00\% | 7.63\% | 8.36\% | -2.57 | 0.73\% | 14.85 | 4.37\% |
| 12/31/1992 | 11.90\% | 7.63\% | 8.36\% | -2.57 | 0.74\% | 14.83 | 4.27\% |
| 1/12/1993 | 12.00\% | 7.61\% | 8.37\% | -2.58 | 0.76\% | 14.72 | 4.39\% |
| 1/21/1993 | 11.25\% | 7.59\% | 8.34\% | -2.58 | 0.75\% | 14.55 | 3.66\% |
| 2/2/1993 | 11.40\% | 7.56\% | 8.28\% | -2.58 | 0.72\% | 14.36 | 3.84\% |
| 2/15/1993 | 12.30\% | 7.52\% | 8.23\% | -2.59 | 0.71\% | 14.23 | 4.78\% |
| 2/24/1993 | 11.90\% | 7.49\% | 8.19\% | -2.59 | 0.70\% | 14.19 | 4.41\% |
| 2/26/1993 | 11.80\% | 7.48\% | 8.18\% | -2.59 | 0.70\% | 14.17 | 4.32\% |
| 2/26/1993 | 12.20\% | 7.48\% | 8.18\% | -2.59 | 0.70\% | 14.17 | 4.72\% |
| 4/23/1993 | 11.75\% | 7.29\% | 8.03\% | -2.62 | 0.74\% | 13.85 | 4.46\% |
| 5/11/1993 | 11.75\% | 7.25\% | 8.00\% | -2.62 | 0.75\% | 13.85 | 4.50\% |
| 5/14/1993 | 11.50\% | 7.24\% | 8.00\% | -2.63 | 0.76\% | 13.87 | 4.26\% |
| 5/25/1993 | 11.50\% | 7.23\% | 7.99\% | -2.63 | 0.76\% | 13.88 | 4.27\% |
| 5/28/1993 | 11.00\% | 7.22\% | 7.99\% | -2.63 | 0.77\% | 13.85 | 3.78\% |
| 6/3/1993 | 12.00\% | 7.21\% | 7.98\% | -2.63 | 0.77\% | 13.84 | 4.79\% |
| 6/16/1993 | 11.50\% | 7.19\% | 7.97\% | -2.63 | 0.78\% | 13.77 | 4.31\% |
| 6/18/1993 | 12.10\% | 7.18\% | 7.96\% | -2.63 | 0.78\% | 13.76 | 4.92\% |
| 6/25/1993 | 11.67\% | 7.17\% | 7.95\% | -2.64 | 0.79\% | 13.73 | 4.50\% |
| 7/21/1993 | 11.38\% | 7.10\% | 7.90\% | -2.65 | 0.81\% | 13.46 | 4.28\% |
| 7/23/1993 | 10.46\% | 7.09\% | 7.90\% | -2.65 | 0.81\% | 13.37 | 3.37\% |
| 8/24/1993 | 11.50\% | 6.96\% | 7.83\% | -2.67 | 0.87\% | 12.80 | 4.54\% |
| 9/21/1993 | 10.50\% | 6.81\% | 7.75\% | -2.69 | 0.94\% | 12.72 | 3.69\% |
| 9/29/1993 | 11.47\% | 6.77\% | 7.73\% | -2.69 | 0.96\% | 12.73 | 4.70\% |
| 9/30/1993 | 11.60\% | 6.76\% | 7.72\% | -2.69 | 0.96\% | 12.74 | 4.84\% |
| 11/2/1993 | 10.80\% | 6.60\% | 7.60\% | -2.72 | 0.99\% | 12.67 | 4.20\% |
| 11/12/1993 | 12.00\% | 6.57\% | 7.57\% | -2.72 | 1.00\% | 12.76 | 5.43\% |
| 11/26/1993 | 11.00\% | 6.52\% | 7.53\% | -2.73 | 1.01\% | 12.85 | 4.48\% |
| 12/14/1993 | 10.55\% | 6.48\% | 7.49\% | -2.74 | 1.01\% | 12.75 | 4.07\% |
| 12/16/1993 | 10.60\% | 6.48\% | 7.49\% | -2.74 | 1.01\% | 12.73 | 4.12\% |
| 12/21/1993 | 11.30\% | 6.47\% | 7.48\% | -2.74 | 1.01\% | 12.66 | 4.83\% |
| 1/4/1994 | 10.07\% | 6.44\% | 7.45\% | -2.74 | 1.01\% | 12.50 | 3.63\% |
| 1/13/1994 | 11.00\% | 6.42\% | 7.43\% | -2.75 | 1.01\% | 12.46 | 4.58\% |
| 1/21/1994 | 11.00\% | 6.40\% | 7.41\% | -2.75 | 1.01\% | 12.39 | 4.60\% |
| 1/28/1994 | 11.35\% | 6.39\% | 7.40\% | -2.75 | 1.01\% | 12.37 | 4.96\% |
| 2/3/1994 | 11.40\% | 6.38\% | 7.39\% | -2.75 | 1.01\% | 12.34 | 5.02\% |
| 2/17/1994 | 10.60\% | 6.36\% | 7.38\% | -2.76 | 1.01\% | 12.38 | 4.24\% |
| 2/25/1994 | 11.25\% | 6.35\% | 7.37\% | -2.76 | 1.02\% | 12.40 | 4.90\% |
| 2/25/1994 | 12.00\% | 6.35\% | 7.37\% | -2.76 | 1.02\% | 12.40 | 5.65\% |
| 3/1/1994 | 11.00\% | 6.35\% | 7.37\% | -2.76 | 1.02\% | 12.41 | 4.65\% |
| 3/4/1994 | 11.00\% | 6.35\% | 7.37\% | -2.76 | 1.02\% | 12.44 | 4.65\% |
| 4/25/1994 | 11.00\% | 6.41\% | 7.42\% | -2.75 | 1.01\% | 13.02 | 4.59\% |
| 5/10/1994 | 11.75\% | 6.45\% | 7.45\% | -2.74 | 1.01\% | 13.19 | 5.30\% |
| 5/13/1994 | 10.50\% | 6.46\% | 7.47\% | -2.74 | 1.01\% | 13.24 | 4.04\% |
| 6/3/1994 | 11.00\% | 6.54\% | 7.53\% | -2.73 | 0.99\% | 13.31 | 4.46\% |
| 6/27/1994 | 11.40\% | 6.65\% | 7.63\% | -2.71 | 0.98\% | 13.42 | 4.75\% |
| 8/5/1994 | 12.75\% | 6.88\% | 7.82\% | -2.68 | 0.95\% | 13.41 | 5.87\% |
| 10/31/1994 | 10.00\% | 7.33\% | 8.22\% | -2.61 | 0.90\% | 13.76 | 2.67\% |
| 11/9/1994 | 10.85\% | 7.39\% | 8.28\% | -2.61 | 0.89\% | 13.92 | 3.46\% |
| 11/9/1994 | 10.85\% | 7.39\% | 8.28\% | -2.61 | 0.89\% | 13.92 | 3.46\% |
| 11/18/1994 | 11.20\% | 7.45\% | 8.33\% | -2.60 | 0.88\% | 14.12 | 3.75\% |
| 11/22/1994 | 11.60\% | 7.47\% | 8.35\% | -2.59 | 0.88\% | 14.14 | 4.13\% |
| 11/28/1994 | 11.06\% | 7.49\% | 8.37\% | -2.59 | 0.88\% | 14.20 | 3.57\% |
| 12/8/1994 | 11.50\% | 7.54\% | 8.43\% | -2.58 | 0.88\% | 14.30 | 3.96\% |
| 12/8/1994 | 11.70\% | 7.54\% | 8.43\% | -2.58 | 0.88\% | 14.30 | 4.16\% |
| 12/14/1994 | 10.95\% | 7.56\% | 8.45\% | -2.58 | 0.89\% | 14.29 | 3.39\% |
| 12/15/1994 | 11.50\% | 7.57\% | 8.46\% | -2.58 | 0.89\% | 14.27 | 3.93\% |
| 12/19/1994 | 11.50\% | 7.58\% | 8.47\% | -2.58 | 0.89\% | 14.24 | 3.92\% |
| 12/28/1994 | 12.15\% | 7.61\% | 8.50\% | -2.58 | 0.88\% | 14.15 | 4.54\% |
| 1/9/1995 | 12.28\% | 7.64\% | 8.53\% | -2.57 | 0.89\% | 14.14 | 4.64\% |
| 1/31/1995 | 11.00\% | 7.69\% | 8.58\% | -2.57 | 0.89\% | 13.72 | 3.31\% |
| 2/10/1995 | 12.60\% | 7.70\% | 8.59\% | -2.56 | 0.89\% | 13.56 | 4.90\% |
| 2/17/1995 | 11.90\% | 7.70\% | 8.60\% | -2.56 | 0.90\% | 13.50 | 4.20\% |
| 3/9/1995 | 11.50\% | 7.71\% | 8.61\% | -2.56 | 0.90\% | 13.36 | 3.79\% |

Schedule RBH-7
Page 12 of 20

| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3/20/1995 | 12.00\% | 7.72\% | 8.61\% | -2.56 | 0.89\% | 13.34 | 4.28\% |
| 3/23/1995 | 12.81\% | 7.72\% | 8.61\% | -2.56 | 0.89\% | 13.32 | 5.09\% |
| 3/29/1995 | 11.60\% | 7.72\% | 8.61\% | -2.56 | 0.90\% | 13.31 | 3.88\% |
| 4/6/1995 | 11.10\% | 7.71\% | 8.61\% | -2.56 | 0.90\% | 13.31 | 3.39\% |
| 4/7/1995 | 11.00\% | 7.71\% | 8.61\% | -2.56 | 0.90\% | 13.30 | 3.29\% |
| 4/19/1995 | 11.00\% | 7.70\% | 8.61\% | -2.56 | 0.91\% | 13.21 | 3.30\% |
| 5/12/1995 | 11.63\% | 7.68\% | 8.58\% | -2.57 | 0.90\% | 13.20 | 3.95\% |
| 5/25/1995 | 11.20\% | 7.65\% | 8.56\% | -2.57 | 0.91\% | 13.21 | 3.55\% |
| 6/9/1995 | 11.25\% | 7.60\% | 8.52\% | -2.58 | 0.92\% | 13.25 | 3.65\% |
| 6/21/1995 | 12.25\% | 7.56\% | 8.48\% | -2.58 | 0.92\% | 13.23 | 4.69\% |
| 6/30/1995 | 11.10\% | 7.52\% | 8.45\% | -2.59 | 0.94\% | 13.19 | 3.58\% |
| 9/11/1995 | 11.30\% | 7.20\% | 8.18\% | -2.63 | 0.97\% | 12.51 | 4.10\% |
| 9/27/1995 | 11.30\% | 7.12\% | 8.10\% | -2.64 | 0.98\% | 12.25 | 4.18\% |
| 9/27/1995 | 11.50\% | 7.12\% | 8.10\% | -2.64 | 0.98\% | 12.25 | 4.38\% |
| 9/27/1995 | 11.75\% | 7.12\% | 8.10\% | -2.64 | 0.98\% | 12.25 | 4.63\% |
| 9/29/1995 | 11.00\% | 7.11\% | 8.09\% | -2.64 | 0.98\% | 12.24 | 3.89\% |
| 11/9/1995 | 11.38\% | 6.90\% | 7.91\% | -2.67 | 1.01\% | 12.46 | 4.48\% |
| 11/9/1995 | 12.36\% | 6.90\% | 7.91\% | -2.67 | 1.01\% | 12.46 | 5.46\% |
| 11/17/1995 | 11.00\% | 6.86\% | 7.87\% | -2.68 | 1.02\% | 12.50 | 4.14\% |
| 12/4/1995 | 11.35\% | 6.78\% | 7.82\% | -2.69 | 1.04\% | 12.51 | 4.57\% |
| 12/11/1995 | 11.40\% | 6.74\% | 7.79\% | -2.70 | 1.04\% | 12.52 | 4.66\% |
| 12/20/1995 | 11.60\% | 6.70\% | 7.75\% | -2.70 | 1.05\% | 12.50 | 4.90\% |
| 12/27/1995 | 12.00\% | 6.66\% | 7.72\% | -2.71 | 1.06\% | 12.48 | 5.34\% |
| 2/5/1996 | 12.25\% | 6.48\% | 7.59\% | -2.74 | 1.11\% | 12.63 | 5.77\% |
| 3/29/1996 | 10.67\% | 6.42\% | 7.52\% | -2.75 | 1.11\% | 13.47 | 4.25\% |
| 4/8/1996 | 11.00\% | 6.42\% | 7.53\% | -2.75 | 1.11\% | 13.62 | 4.58\% |
| 4/11/1996 | 12.59\% | 6.43\% | 7.53\% | -2.74 | 1.11\% | 13.73 | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 7.53\% | -2.74 | 1.11\% | 13.73 | 6.16\% |
| 4/24/1996 | 11.25\% | 6.43\% | 7.55\% | -2.74 | 1.11\% | 13.92 | 4.82\% |
| 4/30/1996 | 11.00\% | 6.43\% | 7.55\% | -2.74 | 1.12\% | 13.98 | 4.57\% |
| 5/13/1996 | 11.00\% | 6.44\% | 7.57\% | -2.74 | 1.13\% | 14.14 | 4.56\% |
| 5/23/1996 | 11.25\% | 6.43\% | 7.57\% | -2.74 | 1.14\% | 14.23 | 4.82\% |
| 6/25/1996 | 11.25\% | 6.48\% | 7.60\% | -2.74 | 1.12\% | 14.71 | 4.77\% |
| 6/27/1996 | 11.20\% | 6.48\% | 7.60\% | -2.74 | 1.12\% | 14.75 | 4.72\% |
| 8/12/1996 | 10.40\% | 6.57\% | 7.67\% | -2.72 | 1.10\% | 15.35 | 3.83\% |
| 9/27/1996 | 11.00\% | 6.71\% | 7.76\% | -2.70 | 1.05\% | 15.96 | 4.29\% |
| 10/16/1996 | 12.25\% | 6.76\% | 7.79\% | -2.69 | 1.03\% | 16.20 | 5.49\% |
| 11/5/1996 | 11.00\% | 6.81\% | 7.83\% | -2.69 | 1.02\% | 16.42 | 4.19\% |
| 11/26/1996 | 11.30\% | 6.83\% | 7.84\% | -2.68 | 1.01\% | 16.58 | 4.47\% |
| 12/18/1996 | 11.75\% | 6.83\% | 7.85\% | -2.68 | 1.02\% | 16.80 | 4.92\% |
| 12/31/1996 | 11.50\% | 6.83\% | 7.85\% | -2.68 | 1.02\% | 16.84 | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 7.85\% | -2.68 | 1.02\% | 16.86 | 3.87\% |
| 2/13/1997 | 11.80\% | 6.82\% | 7.83\% | -2.68 | 1.01\% | 17.23 | 4.98\% |
| 2/20/1997 | 11.80\% | 6.82\% | 7.83\% | -2.69 | 1.01\% | 17.29 | 4.98\% |
| 3/31/1997 | 10.02\% | 6.80\% | 7.81\% | -2.69 | 1.00\% | 17.83 | 3.22\% |
| 4/2/1997 | 11.65\% | 6.80\% | 7.80\% | -2.69 | 1.00\% | 17.86 | 4.85\% |
| 4/28/1997 | 11.50\% | 6.81\% | 7.80\% | -2.69 | 0.99\% | 18.20 | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 7.80\% | -2.69 | 0.99\% | 18.21 | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 7.75\% | -2.69 | 0.97\% | 19.03 | 5.23\% |
| 12/12/1997 | 11.00\% | 6.60\% | 7.60\% | -2.72 | 1.00\% | 22.57 | 4.40\% |
| 12/23/1997 | 11.12\% | 6.57\% | 7.58\% | -2.72 | 1.01\% | 22.84 | 4.55\% |
| 2/2/1998 | 12.75\% | 6.39\% | 7.47\% | -2.75 | 1.08\% | 23.43 | 6.36\% |
| 3/2/1998 | 11.25\% | 6.29\% | 7.39\% | -2.77 | 1.10\% | 23.40 | 4.96\% |
| 3/6/1998 | 10.75\% | 6.27\% | 7.38\% | -2.77 | 1.11\% | 23.37 | 4.48\% |
| 3/20/1998 | 10.50\% | 6.22\% | 7.34\% | -2.78 | 1.12\% | 23.35 | 4.28\% |
| 4/30/1998 | 12.20\% | 6.12\% | 7.26\% | -2.79 | 1.14\% | 23.66 | 6.08\% |
| 7/10/1998 | 11.40\% | 5.94\% | 7.16\% | -2.82 | 1.23\% | 23.13 | 5.46\% |
| 9/15/1998 | 11.90\% | 5.78\% | 7.09\% | -2.85 | 1.31\% | 23.82 | 6.12\% |
| 11/30/1998 | 12.60\% | 5.58\% | 7.05\% | -2.89 | 1.47\% | 26.04 | 7.02\% |
| 12/10/1998 | 12.20\% | 5.54\% | 7.05\% | -2.89 | 1.50\% | 26.30 | 6.66\% |
| 12/17/1998 | 12.10\% | 5.52\% | 7.04\% | -2.90 | 1.52\% | 26.55 | 6.58\% |
| 2/5/1999 | 10.30\% | 5.38\% | 7.01\% | -2.92 | 1.63\% | 27.50 | 4.92\% |
| 3/4/1999 | 10.50\% | 5.34\% | 7.01\% | -2.93 | 1.67\% | 28.15 | 5.16\% |
| 4/6/1999 | 10.94\% | 5.32\% | 7.03\% | -2.93 | 1.70\% | 28.43 | 5.62\% |
| 7/29/1999 | 10.75\% | 5.52\% | 7.25\% | -2.90 | 1.74\% | 25.84 | 5.23\% |
| 9/23/1999 | 10.75\% | 5.70\% | 7.43\% | -2.86 | 1.73\% | 24.95 | 5.05\% |
| 11/17/1999 | 11.10\% | 5.90\% | 7.63\% | -2.83 | 1.73\% | 24.34 | 5.20\% |
| 1/7/2000 | 11.50\% | 6.05\% | 7.79\% | -2.81 | 1.75\% | 23.49 | 5.45\% |
| 1/7/2000 | 11.50\% | 6.05\% | 7.79\% | -2.81 | 1.75\% | 23.49 | 5.45\% |
| 2/17/2000 | 10.60\% | 6.17\% | 7.94\% | -2.78 | 1.77\% | 23.37 | 4.43\% |
| 3/28/2000 | 11.25\% | 6.20\% | 8.04\% | -2.78 | 1.85\% | 22.98 | 5.05\% |
| 5/24/2000 | 11.00\% | 6.18\% | 8.19\% | -2.78 | 2.00\% | 23.85 | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 8.27\% | -2.79 | 2.11\% | 23.37 | 6.04\% |
| 9/29/2000 | 11.16\% | 6.03\% | 8.31\% | -2.81 | 2.28\% | 22.44 | 5.13\% |
| 11/28/2000 | 12.90\% | 5.89\% | 8.28\% | -2.83 | 2.40\% | 22.97 | 7.01\% |
| 11/30/2000 | 12.10\% | 5.88\% | 8.28\% | -2.83 | 2.40\% | 23.03 | 6.22\% |
| 1/23/2001 | 11.25\% | 5.79\% | 8.20\% | -2.85 | 2.41\% | 23.50 | 5.46\% |
| 2/8/2001 | 11.50\% | 5.77\% | 8.18\% | -2.85 | 2.40\% | 23.17 | 5.73\% |
| 5/8/2001 | 10.75\% | 5.62\% | 7.97\% | -2.88 | 2.35\% | 24.37 | 5.13\% |
| 6/26/2001 | 11.00\% | 5.62\% | 7.93\% | -2.88 | 2.31\% | 24.90 | 5.38\% |
| 7/25/2001 | 11.02\% | 5.60\% | 7.89\% | -2.88 | 2.29\% | 25.06 | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 7.89\% | -2.88 | 2.29\% | 25.06 | 5.42\% |
| 7/31/2001 | 11.00\% | 5.59\% | 7.88\% | -2.88 | 2.29\% | 24.98 | 5.41\% |

Schedule RBH-7
Page 13 of 20

| Date of Electric Rate Case |  | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/31/2001 | 10.50\% | 5.56\% | 7.82\% | -2.89 | 2.26\% | 24.50 | 4.94\% |
| 9/7/2001 | 10.75\% | 5.55\% | 7.81\% | -2.89 | 2.25\% | 24.54 | 5.20\% |
| 9/10/2001 | 11.00\% | 5.55\% | 7.80\% | -2.89 | 2.25\% | 24.57 | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 7.79\% | -2.89 | 2.25\% | 24.85 | 4.45\% |
| 10/24/2001 | 10.30\% | 5.54\% | 7.78\% | -2.89 | 2.24\% | 25.70 | 4.76\% |
| 11/28/2001 | 10.60\% | 5.49\% | 7.75\% | -2.90 | 2.26\% | 26.15 | 5.11\% |
| 12/3/2001 | 12.88\% | 5.49\% | 7.75\% | -2.90 | 2.26\% | 26.20 | 7.39\% |
| 12/20/2001 | 12.50\% | 5.50\% | 7.76\% | -2.90 | 2.26\% | 26.14 | 7.00\% |
| 1/22/2002 | 10.00\% | 5.50\% | 7.76\% | -2.90 | 2.27\% | 25.52 | 4.50\% |
| 3/27/2002 | 10.10\% | 5.45\% | 7.69\% | -2.91 | 2.24\% | 24.63 | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 7.67\% | -2.91 | 2.22\% | 24.46 | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 7.64\% | -2.91 | 2.17\% | 24.27 | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 7.63\% | -2.91 | 2.16\% | 24.33 | 6.53\% |
| 6/18/2002 | 11.16\% | 5.48\% | 7.62\% | -2.90 | 2.15\% | 24.40 | 5.68\% |
| 6/20/2002 | 11.00\% | 5.48\% | 7.62\% | -2.90 | 2.15\% | 24.45 | 5.52\% |
| 6/20/2002 | 12.30\% | 5.48\% | 7.62\% | -2.90 | 2.15\% | 24.45 | 6.82\% |
| 7/15/2002 | 11.00\% | 5.48\% | 7.60\% | -2.90 | 2.13\% | 24.13 | 5.52\% |
| 9/12/2002 | 12.30\% | 5.45\% | 7.51\% | -2.91 | 2.06\% | 25.14 | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 7.48\% | -2.92 | 2.07\% | 25.82 | 5.04\% |
| 12/4/2002 | 11.55\% | 5.29\% | 7.36\% | -2.94 | 2.07\% | 28.01 | 6.26\% |
| 12/13/2002 | 11.75\% | 5.27\% | 7.34\% | -2.94 | 2.08\% | 28.25 | 6.48\% |
| 12/20/2002 | 11.40\% | 5.25\% | 7.33\% | -2.95 | 2.08\% | 28.44 | 6.15\% |
| 1/8/2003 | 11.10\% | 5.19\% | 7.29\% | -2.96 | 2.10\% | 28.87 | 5.91\% |
| 1/31/2003 | 12.45\% | 5.13\% | 7.24\% | -2.97 | 2.11\% | 29.61 | 7.32\% |
| 2/28/2003 | 12.30\% | 5.05\% | 7.19\% | -2.99 | 2.14\% | 30.69 | 7.25\% |
| 3/6/2003 | 10.75\% | 5.03\% | 7.17\% | -2.99 | 2.14\% | 30.93 | 5.72\% |
| 3/7/2003 | 9.96\% | 5.02\% | 7.17\% | -2.99 | 2.14\% | 30.99 | 4.94\% |
| 3/20/2003 | 12.00\% | 4.98\% | 7.13\% | -3.00 | 2.15\% | 31.50 | 7.02\% |
| 4/3/2003 | 12.00\% | 4.96\% | 7.10\% | -3.00 | 2.14\% | 31.71 | 7.04\% |
| 4/15/2003 | 11.15\% | 4.94\% | 7.07\% | -3.01 | 2.13\% | 31.67 | 6.21\% |
| 6/25/2003 | 10.75\% | 4.79\% | 6.85\% | -3.04 | 2.06\% | 28.30 | 5.96\% |
| 6/26/2003 | 10.75\% | 4.79\% | 6.84\% | -3.04 | 2.05\% | 28.22 | 5.96\% |
| 7/9/2003 | 9.75\% | 4.79\% | 6.82\% | -3.04 | 2.03\% | 27.50 | 4.96\% |
| 7/16/2003 | 9.75\% | 4.79\% | 6.80\% | -3.04 | 2.01\% | 27.03 | 4.96\% |
| 7/25/2003 | 9.50\% | 4.80\% | 6.79\% | -3.04 | 1.99\% | 26.35 | 4.70\% |
| 8/26/2003 | 10.50\% | 4.83\% | 6.74\% | -3.03 | 1.90\% | 24.80 | 5.67\% |
| 12/17/2003 | 9.85\% | 4.94\% | 6.51\% | -3.01 | 1.57\% | 20.53 | 4.91\% |
| 12/17/2003 | 10.70\% | 4.94\% | 6.51\% | -3.01 | 1.57\% | 20.53 | 5.76\% |
| 12/18/2003 | 11.50\% | 4.94\% | 6.51\% | -3.01 | 1.57\% | 20.45 | 6.56\% |
| 12/19/2003 | 12.00\% | 4.94\% | 6.50\% | -3.01 | 1.56\% | 20.38 | 7.06\% |
| 12/19/2003 | 12.00\% | 4.94\% | 6.50\% | -3.01 | 1.56\% | 20.38 | 7.06\% |
| 12/23/2003 | 10.50\% | 4.94\% | 6.50\% | -3.01 | 1.56\% | 20.21 | 5.56\% |
| 1/13/2004 | 12.00\% | 4.95\% | 6.46\% | -3.01 | 1.51\% | 19.36 | 7.05\% |
| 3/2/2004 | 10.75\% | 4.99\% | 6.38\% | -3.00 | 1.39\% | 18.18 | 5.76\% |
| 3/26/2004 | 10.25\% | 5.02\% | 6.35\% | -2.99 | 1.33\% | 17.98 | 5.23\% |
| 4/5/2004 | 11.25\% | 5.03\% | 6.35\% | -2.99 | 1.32\% | 17.86 | 6.22\% |
| 5/18/2004 | 10.50\% | 5.07\% | 6.36\% | -2.98 | 1.28\% | 17.45 | 5.43\% |
| 5/25/2004 | 10.25\% | 5.08\% | 6.35\% | -2.98 | 1.28\% | 17.37 | 5.17\% |
| 5/27/2004 | 10.25\% | 5.08\% | 6.35\% | -2.98 | 1.28\% | 17.34 | 5.17\% |
| 6/2/2004 | 11.22\% | 5.08\% | 6.35\% | -2.98 | 1.27\% | 17.30 | 6.14\% |
| 6/30/2004 | 10.50\% | 5.10\% | 6.32\% | -2.98 | 1.22\% | 16.97 | 5.40\% |
| 6/30/2004 | 10.50\% | 5.10\% | 6.32\% | -2.98 | 1.22\% | 16.97 | 5.40\% |
| 7/16/2004 | 11.60\% | 5.11\% | 6.30\% | -2.97 | 1.19\% | 16.72 | 6.49\% |
| 8/25/2004 | 10.25\% | 5.10\% | 6.27\% | -2.98 | 1.17\% | 16.53 | 5.15\% |
| 9/9/2004 | 10.40\% | 5.10\% | 6.25\% | -2.98 | 1.16\% | 16.36 | 5.30\% |
| 11/9/2004 | 10.50\% | 5.07\% | 6.20\% | -2.98 | 1.13\% | 15.94 | 5.43\% |
| 11/23/2004 | 11.00\% | 5.06\% | 6.19\% | -2.98 | 1.13\% | 15.75 | 5.94\% |
| 12/14/2004 | 10.97\% | 5.07\% | 6.18\% | -2.98 | 1.11\% | 15.58 | 5.90\% |
| 12/21/2004 | 11.25\% | 5.07\% | 6.17\% | -2.98 | 1.10\% | 15.51 | 6.18\% |
| 12/21/2004 | 11.50\% | 5.07\% | 6.17\% | -2.98 | 1.10\% | 15.51 | 6.43\% |
| 12/22/2004 | 10.70\% | 5.07\% | 6.17\% | -2.98 | 1.10\% | 15.49 | 5.63\% |
| 12/22/2004 | 11.50\% | 5.07\% | 6.17\% | -2.98 | 1.10\% | 15.49 | 6.43\% |
| 12/29/2004 | 9.85\% | 5.07\% | 6.17\% | -2.98 | 1.10\% | 15.33 | 4.78\% |
| 1/6/2005 | 10.70\% | 5.08\% | 6.17\% | -2.98 | 1.09\% | 15.14 | 5.62\% |
| 2/18/2005 | 10.30\% | 4.98\% | 6.08\% | -3.00 | 1.11\% | 14.60 | 5.32\% |
| 2/25/2005 | 10.50\% | 4.96\% | 6.07\% | -3.00 | 1.11\% | 14.48 | 5.54\% |
| 3/10/2005 | 11.00\% | 4.93\% | 6.03\% | -3.01 | 1.10\% | 14.19 | 6.07\% |
| 3/24/2005 | 10.30\% | 4.90\% | 5.99\% | -3.02 | 1.09\% | 14.06 | 5.40\% |
| 4/4/2005 | 10.00\% | 4.88\% | 5.97\% | -3.02 | 1.09\% | 14.02 | 5.12\% |
| 4/7/2005 | 10.25\% | 4.87\% | 5.96\% | -3.02 | 1.09\% | 14.00 | 5.38\% |
| 5/18/2005 | 10.25\% | 4.78\% | 5.86\% | -3.04 | 1.08\% | 13.90 | 5.47\% |
| 5/25/2005 | 10.75\% | 4.76\% | 5.84\% | -3.04 | 1.07\% | 13.77 | 5.99\% |
| 5/26/2005 | 9.75\% | 4.76\% | 5.83\% | -3.04 | 1.07\% | 13.74 | 4.99\% |
| 6/1/2005 | 9.75\% | 4.75\% | 5.82\% | -3.05 | 1.07\% | 13.66 | 5.00\% |
| 7/19/2005 | 11.50\% | 4.64\% | 5.73\% | -3.07 | 1.08\% | 13.17 | 6.86\% |
| 8/5/2005 | 11.75\% | 4.62\% | 5.70\% | -3.07 | 1.07\% | 12.95 | 7.13\% |
| 8/15/2005 | 10.13\% | 4.61\% | 5.68\% | -3.08 | 1.07\% | 12.85 | 5.52\% |
| 9/28/2005 | 10.00\% | 4.54\% | 5.61\% | -3.09 | 1.07\% | 12.77 | 5.46\% |
| 10/4/2005 | 10.75\% | 4.54\% | 5.61\% | -3.09 | 1.07\% | 12.78 | 6.21\% |
| 12/12/2005 | 11.00\% | 4.55\% | 5.63\% | -3.09 | 1.08\% | 12.96 | 6.45\% |
| 12/13/2005 | 10.75\% | 4.55\% | 5.63\% | -3.09 | 1.08\% | 12.96 | 6.20\% |
| 12/21/2005 | 10.29\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.91 | 5.75\% |
| 12/21/2005 | 10.40\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.91 | 5.86\% |


| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/22/2005 | 11.00\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.90 | 6.46\% |
| 12/22/2005 | 11.15\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.90 | 6.61\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.87 | 5.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.63\% | -3.09 | 1.09\% | 12.87 | 5.46\% |
| 1/5/2006 | 11.00\% | 4.53\% | 5.62\% | -3.09 | 1.09\% | 12.82 | 6.47\% |
| 1/27/2006 | 9.75\% | 4.52\% | 5.62\% | -3.10 | 1.10\% | 12.73 | 5.23\% |
| 3/3/2006 | 10.39\% | 4.53\% | 5.65\% | -3.09 | 1.12\% | 12.40 | 5.86\% |
| 4/17/2006 | 10.20\% | 4.61\% | 5.75\% | -3.08 | 1.14\% | 12.34 | 5.59\% |
| 4/26/2006 | 10.60\% | 4.64\% | 5.78\% | -3.07 | 1.14\% | 12.34 | 5.96\% |
| 5/17/2006 | 11.60\% | 4.69\% | 5.85\% | -3.06 | 1.15\% | 12.47 | 6.91\% |
| 6/6/2006 | 10.00\% | 4.74\% | 5.90\% | -3.05 | 1.16\% | 12.72 | 5.26\% |
| 6/27/2006 | 10.75\% | 4.80\% | 5.98\% | -3.04 | 1.18\% | 13.07 | 5.95\% |
| 7/6/2006 | 10.20\% | 4.83\% | 6.00\% | -3.03 | 1.18\% | 13.12 | 5.37\% |
| 7/24/2006 | 9.60\% | 4.86\% | 6.05\% | -3.02 | 1.19\% | 13.30 | 4.74\% |
| 7/26/2006 | 10.50\% | 4.86\% | 6.06\% | -3.02 | 1.20\% | 13.30 | 5.64\% |
| 7/28/2006 | 10.05\% | 4.86\% | 6.06\% | -3.02 | 1.20\% | 13.29 | 5.19\% |
| 8/23/2006 | 9.55\% | 4.89\% | 6.09\% | -3.02 | 1.21\% | 13.19 | 4.66\% |
| 9/1/2006 | 10.54\% | 4.90\% | 6.10\% | -3.02 | 1.21\% | 13.19 | 5.64\% |
| 9/14/2006 | 10.00\% | 4.91\% | 6.11\% | -3.01 | 1.21\% | 13.24 | 5.09\% |
| 10/6/2006 | 9.67\% | 4.92\% | 6.12\% | -3.01 | 1.20\% | 13.29 | 4.75\% |
| 11/21/2006 | 10.08\% | 4.95\% | 6.15\% | -3.01 | 1.19\% | 13.11 | 5.13\% |
| 11/21/2006 | 10.08\% | 4.95\% | 6.15\% | -3.01 | 1.19\% | 13.11 | 5.13\% |
| 11/21/2006 | 10.12\% | 4.95\% | 6.15\% | -3.01 | 1.19\% | 13.11 | 5.17\% |
| 12/1/2006 | 10.25\% | 4.95\% | 6.14\% | -3.00 | 1.19\% | 13.06 | 5.30\% |
| 12/1/2006 | 10.50\% | 4.95\% | 6.14\% | -3.00 | 1.19\% | 13.06 | 5.55\% |
| 12/7/2006 | 10.75\% | 4.95\% | 6.14\% | -3.00 | 1.19\% | 13.06 | 5.80\% |
| 12/21/2006 | 10.90\% | 4.95\% | 6.14\% | -3.01 | 1.18\% | 12.98 | 5.95\% |
| 12/21/2006 | 11.25\% | 4.95\% | 6.14\% | -3.01 | 1.18\% | 12.98 | 6.30\% |
| 12/22/2006 | 10.25\% | 4.95\% | 6.14\% | -3.01 | 1.18\% | 12.97 | 5.30\% |
| 1/5/2007 | 10.00\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.97 | 5.05\% |
| 1/11/2007 | 10.10\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.98 | 5.15\% |
| 1/11/2007 | 10.10\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.98 | 5.15\% |
| 1/11/2007 | 10.90\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.98 | 5.95\% |
| 1/12/2007 | 10.10\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.97 | 5.15\% |
| 1/13/2007 | 10.40\% | 4.95\% | 6.13\% | -3.01 | 1.18\% | 12.97 | 5.45\% |
| 1/19/2007 | 10.80\% | 4.94\% | 6.13\% | -3.01 | 1.18\% | 12.95 | 5.86\% |
| 3/21/2007 | 11.35\% | 4.87\% | 6.03\% | -3.02 | 1.16\% | 12.82 | 6.48\% |
| 3/22/2007 | 9.75\% | 4.86\% | 6.03\% | -3.02 | 1.16\% | 12.81 | 4.89\% |
| 5/15/2007 | 10.00\% | 4.81\% | 5.94\% | -3.03 | 1.14\% | 12.23 | 5.19\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.94\% | -3.04 | 1.13\% | 12.22 | 5.44\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.94\% | -3.04 | 1.13\% | 12.22 | 5.44\% |
| 5/22/2007 | 10.20\% | 4.80\% | 5.94\% | -3.04 | 1.13\% | 12.20 | 5.40\% |
| 5/22/2007 | 10.50\% | 4.80\% | 5.94\% | -3.04 | 1.13\% | 12.20 | 5.70\% |
| 5/23/2007 | 10.70\% | 4.80\% | 5.94\% | -3.04 | 1.13\% | 12.19 | 5.90\% |
| 5/25/2007 | 9.67\% | 4.80\% | 5.94\% | -3.04 | 1.13\% | 12.18 | 4.87\% |
| 6/15/2007 | 9.90\% | 4.82\% | 5.94\% | -3.03 | 1.12\% | 12.27 | 5.08\% |
| 6/21/2007 | 10.20\% | 4.83\% | 5.94\% | -3.03 | 1.12\% | 12.30 | 5.37\% |
| 6/22/2007 | 10.50\% | 4.83\% | 5.95\% | -3.03 | 1.12\% | 12.31 | 5.67\% |
| 6/28/2007 | 10.75\% | 4.84\% | 5.95\% | -3.03 | 1.11\% | 12.38 | 5.91\% |
| 7/12/2007 | 9.67\% | 4.86\% | 5.96\% | -3.02 | 1.11\% | 12.56 | 4.81\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.97\% | -3.02 | 1.11\% | 12.65 | 5.13\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.97\% | -3.02 | 1.11\% | 12.65 | 5.13\% |
| 8/15/2007 | 10.40\% | 4.88\% | 5.99\% | -3.02 | 1.11\% | 13.75 | 5.52\% |
| 10/9/2007 | 10.00\% | 4.91\% | 6.07\% | -3.01 | 1.16\% | 15.91 | 5.09\% |
| 10/17/2007 | 9.10\% | 4.91\% | 6.08\% | -3.01 | 1.17\% | 16.13 | 4.19\% |
| 10/31/2007 | 9.96\% | 4.90\% | 6.08\% | -3.02 | 1.18\% | 16.59 | 5.06\% |
| 11/29/2007 | 10.90\% | 4.87\% | 6.08\% | -3.02 | 1.21\% | 18.10 | 6.03\% |
| 12/6/2007 | 10.75\% | 4.86\% | 6.08\% | -3.02 | 1.22\% | 18.41 | 5.89\% |
| 12/13/2007 | 9.96\% | 4.86\% | 6.09\% | -3.02 | 1.24\% | 18.60 | 5.10\% |
| 12/14/2007 | 10.70\% | 4.86\% | 6.10\% | -3.02 | 1.24\% | 18.63 | 5.84\% |
| 12/14/2007 | 10.80\% | 4.86\% | 6.10\% | -3.02 | 1.24\% | 18.63 | 5.94\% |
| 12/19/2007 | 10.20\% | 4.86\% | 6.10\% | -3.03 | 1.25\% | 18.72 | 5.34\% |
| 12/20/2007 | 10.20\% | 4.85\% | 6.10\% | -3.03 | 1.25\% | 18.75 | 5.35\% |
| 12/20/2007 | 11.00\% | 4.85\% | 6.10\% | -3.03 | 1.25\% | 18.75 | 6.15\% |
| 12/28/2007 | 10.25\% | 4.85\% | 6.12\% | -3.03 | 1.26\% | 18.83 | 5.40\% |
| 12/31/2007 | 11.25\% | 4.85\% | 6.12\% | -3.03 | 1.27\% | 18.86 | 6.40\% |
| 1/8/2008 | 10.75\% | 4.83\% | 6.12\% | -3.03 | 1.29\% | 19.13 | 5.92\% |
| 1/17/2008 | 10.75\% | 4.81\% | 6.12\% | -3.03 | 1.31\% | 19.48 | 5.94\% |
| 1/28/2008 | 9.40\% | 4.80\% | 6.12\% | -3.04 | 1.33\% | 19.95 | 4.60\% |
| 1/30/2008 | 10.00\% | 4.79\% | 6.12\% | -3.04 | 1.33\% | 20.10 | 5.21\% |
| 1/31/2008 | 10.71\% | 4.79\% | 6.12\% | -3.04 | 1.34\% | 20.17 | 5.92\% |
| 2/29/2008 | 10.25\% | 4.75\% | 6.15\% | -3.05 | 1.40\% | 21.41 | 5.50\% |
| 3/12/2008 | 10.25\% | 4.73\% | 6.16\% | -3.05 | 1.43\% | 21.95 | 5.52\% |
| 3/25/2008 | 9.10\% | 4.68\% | 6.16\% | -3.06 | 1.48\% | 22.51 | 4.42\% |
| 4/22/2008 | 10.25\% | 4.60\% | 6.16\% | -3.08 | 1.56\% | 23.28 | 5.65\% |
| 4/24/2008 | 10.10\% | 4.60\% | 6.16\% | -3.08 | 1.56\% | 23.32 | 5.50\% |
| 5/1/2008 | 10.70\% | 4.59\% | 6.16\% | -3.08 | 1.57\% | 23.42 | 6.11\% |
| 5/19/2008 | 11.00\% | 4.56\% | 6.16\% | -3.09 | 1.60\% | 23.33 | 6.44\% |
| 5/27/2008 | 10.00\% | 4.55\% | 6.16\% | -3.09 | 1.61\% | 23.21 | 5.45\% |
| 6/10/2008 | 10.70\% | 4.54\% | 6.17\% | -3.09 | 1.62\% | 22.88 | 6.16\% |
| 6/27/2008 | 10.50\% | 4.54\% | 6.18\% | -3.09 | 1.64\% | 22.74 | 5.96\% |
| 6/27/2008 | 11.04\% | 4.54\% | 6.18\% | -3.09 | 1.64\% | 22.74 | 6.50\% |
| 7/10/2008 | 10.43\% | 4.52\% | 6.19\% | -3.10 | 1.66\% | 22.86 | 5.91\% |


| Date of Electric Rate Case | $\begin{gathered} {[6]} \\ \text { Return on } \\ \text { Equity } \\ (\%) \\ \hline \end{gathered}$ | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7/16/2008 | 9.40\% | 4.52\% | 6.19\% | -3.10 | 1.67\% | 23.05 | 4.88\% |
| 7/30/2008 | 10.80\% | 4.51\% | 6.20\% | -3.10 | 1.69\% | 23.31 | 6.29\% |
| 7/31/2008 | 10.70\% | 4.51\% | 6.20\% | -3.10 | 1.70\% | 23.32 | 6.19\% |
| 8/11/2008 | 10.25\% | 4.51\% | 6.22\% | -3.10 | 1.71\% | 23.36 | 5.74\% |
| 8/26/2008 | 10.18\% | 4.50\% | 6.24\% | -3.10 | 1.74\% | 23.26 | 5.68\% |
| 9/10/2008 | 10.30\% | 4.50\% | 6.25\% | -3.10 | 1.75\% | 23.04 | 5.80\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.28\% | -3.11 | 1.79\% | 23.44 | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.28\% | -3.11 | 1.79\% | 23.44 | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.28\% | -3.11 | 1.79\% | 23.44 | 6.17\% |
| 9/30/2008 | 10.20\% | 4.48\% | 6.29\% | -3.11 | 1.81\% | 23.77 | 5.72\% |
| 10/8/2008 | 10.15\% | 4.46\% | 6.31\% | -3.11 | 1.85\% | 24.58 | 5.69\% |
| 11/13/2008 | 10.55\% | 4.45\% | 6.52\% | -3.11 | 2.08\% | 29.55 | 6.10\% |
| 11/17/2008 | 10.20\% | 4.44\% | 6.54\% | -3.11 | 2.09\% | 29.97 | 5.76\% |
| 12/1/2008 | 10.25\% | 4.40\% | 6.59\% | -3.12 | 2.20\% | 31.76 | 5.85\% |
| 12/23/2008 | 11.00\% | 4.27\% | 6.62\% | -3.15 | 2.35\% | 34.10 | 6.73\% |
| 12/29/2008 | 10.00\% | 4.24\% | 6.62\% | -3.16 | 2.38\% | 34.33 | 5.76\% |
| 12/29/2008 | 10.20\% | 4.24\% | 6.62\% | -3.16 | 2.38\% | 34.33 | 5.96\% |
| 12/31/2008 | 10.75\% | 4.22\% | 6.62\% | -3.17 | 2.40\% | 34.45 | 6.53\% |
| 1/14/2009 | 10.50\% | 4.15\% | 6.63\% | -3.18 | 2.48\% | 35.20 | 6.35\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.63\% | -3.19 | 2.51\% | 35.74 | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.63\% | -3.19 | 2.51\% | 35.74 | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.63\% | -3.19 | 2.51\% | 35.74 | 6.38\% |
| 1/27/2009 | 10.76\% | 4.09\% | 6.63\% | -3.20 | 2.54\% | 36.20 | 6.67\% |
| 1/30/2009 | 10.50\% | 4.08\% | 6.63\% | -3.20 | 2.56\% | 36.50 | 6.42\% |
| 2/4/2009 | 8.75\% | 4.06\% | 6.64\% | -3.20 | 2.57\% | 36.86 | 4.69\% |
| 3/4/2009 | 10.50\% | 3.96\% | 6.64\% | -3.23 | 2.67\% | 39.48 | 6.54\% |
| 3/12/2009 | 11.50\% | 3.93\% | 6.64\% | -3.24 | 2.71\% | 40.32 | 7.57\% |
| 4/2/2009 | 11.10\% | 3.85\% | 6.65\% | -3.26 | 2.80\% | 41.94 | 7.25\% |
| 4/21/2009 | 10.61\% | 3.80\% | 6.65\% | -3.27 | 2.85\% | 42.82 | 6.81\% |
| 4/24/2009 | 10.00\% | 3.79\% | 6.66\% | -3.27 | 2.87\% | 43.01 | 6.21\% |
| 4/30/2009 | 11.25\% | 3.78\% | 6.66\% | -3.28 | 2.89\% | 43.20 | 7.47\% |
| 5/4/2009 | 10.74\% | 3.77\% | 6.66\% | -3.28 | 2.89\% | 43.30 | 6.97\% |
| 5/20/2009 | 10.25\% | 3.74\% | 6.66\% | -3.29 | 2.92\% | 43.85 | 6.51\% |
| 5/28/2009 | 10.50\% | 3.74\% | 6.67\% | -3.29 | 2.92\% | 44.13 | 6.76\% |
| 6/22/2009 | 10.00\% | 3.76\% | 6.66\% | -3.28 | 2.90\% | 44.90 | 6.24\% |
| 6/24/2009 | 10.80\% | 3.77\% | 6.66\% | -3.28 | 2.89\% | 44.97 | 7.03\% |
| 7/8/2009 | 10.63\% | 3.77\% | 6.64\% | -3.28 | 2.88\% | 44.89 | 6.86\% |
| 7/17/2009 | 10.50\% | 3.78\% | 6.62\% | -3.28 | 2.84\% | 44.53 | 6.72\% |
| 8/31/2009 | 10.25\% | 3.82\% | 6.34\% | -3.27 | 2.52\% | 39.06 | 6.43\% |
| 10/14/2009 | 10.70\% | 4.01\% | 6.13\% | -3.22 | 2.12\% | 33.94 | 6.69\% |
| 10/23/2009 | 10.88\% | 4.06\% | 6.10\% | -3.20 | 2.05\% | 33.27 | 6.82\% |
| 11/2/2009 | 10.70\% | 4.09\% | 6.08\% | -3.20 | 1.99\% | 32.69 | 6.61\% |
| 11/3/2009 | 10.70\% | 4.10\% | 6.08\% | -3.20 | 1.99\% | 32.55 | 6.60\% |
| 11/24/2009 | 10.25\% | 4.15\% | 6.03\% | -3.18 | 1.87\% | 30.96 | 6.10\% |
| 11/25/2009 | 10.75\% | 4.16\% | 6.02\% | -3.18 | 1.86\% | 30.84 | 6.59\% |
| 11/30/2009 | 10.35\% | 4.17\% | 6.02\% | -3.18 | 1.85\% | 30.67 | 6.18\% |
| 12/3/2009 | 10.50\% | 4.18\% | 6.01\% | -3.18 | 1.83\% | 30.27 | 6.32\% |
| 12/7/2009 | 10.70\% | 4.18\% | 6.00\% | -3.17 | 1.82\% | 29.98 | 6.52\% |
| 12/16/2009 | 10.90\% | 4.21\% | 5.98\% | -3.17 | 1.77\% | 29.08 | 6.69\% |
| 12/16/2009 | 11.00\% | 4.21\% | 5.98\% | -3.17 | 1.77\% | 29.08 | 6.79\% |
| 12/18/2009 | 10.40\% | 4.22\% | 5.98\% | -3.16 | 1.75\% | 28.81 | 6.18\% |
| 12/18/2009 | 10.40\% | 4.22\% | 5.98\% | -3.16 | 1.75\% | 28.81 | 6.18\% |
| 12/22/2009 | 10.20\% | 4.23\% | 5.97\% | -3.16 | 1.74\% | 28.54 | 5.97\% |
| 12/22/2009 | 10.40\% | 4.23\% | 5.97\% | -3.16 | 1.74\% | 28.54 | 6.17\% |
| 12/22/2009 | 10.40\% | 4.23\% | 5.97\% | -3.16 | 1.74\% | 28.54 | 6.17\% |
| 12/30/2009 | 10.00\% | 4.26\% | 5.96\% | -3.16 | 1.70\% | 27.98 | 5.74\% |
| 1/4/2010 | 10.80\% | 4.28\% | 5.95\% | -3.15 | 1.68\% | 27.77 | 6.52\% |
| 1/11/2010 | 11.00\% | 4.30\% | 5.94\% | -3.15 | 1.64\% | 27.16 | 6.70\% |
| 1/26/2010 | 10.13\% | 4.35\% | 5.90\% | -3.13 | 1.55\% | 26.14 | 5.78\% |
| 1/27/2010 | 10.40\% | 4.35\% | 5.90\% | -3.13 | 1.54\% | 26.06 | 6.05\% |
| 1/27/2010 | 10.40\% | 4.35\% | 5.90\% | -3.13 | 1.54\% | 26.06 | 6.05\% |
| 1/27/2010 | 10.70\% | 4.35\% | 5.90\% | -3.13 | 1.54\% | 26.06 | 6.35\% |
| 2/9/2010 | 9.80\% | 4.38\% | 5.87\% | -3.13 | 1.49\% | 25.50 | 5.42\% |
| 2/18/2010 | 10.60\% | 4.40\% | 5.85\% | -3.12 | 1.45\% | 25.09 | 6.20\% |
| 2/24/2010 | 10.18\% | 4.41\% | 5.84\% | -3.12 | 1.43\% | 24.84 | 5.77\% |
| 3/2/2010 | 9.63\% | 4.41\% | 5.82\% | -3.12 | 1.41\% | 24.58 | 5.22\% |
| 3/4/2010 | 10.50\% | 4.41\% | 5.82\% | -3.12 | 1.41\% | 24.45 | 6.09\% |
| 3/5/2010 | 10.50\% | 4.41\% | 5.82\% | -3.12 | 1.40\% | 24.40 | 6.09\% |
| 3/11/2010 | 11.90\% | 4.42\% | 5.80\% | -3.12 | 1.39\% | 24.14 | 7.48\% |
| 3/17/2010 | 10.00\% | 4.41\% | 5.79\% | -3.12 | 1.37\% | 23.87 | 5.59\% |
| 3/25/2010 | 10.15\% | 4.42\% | 5.77\% | -3.12 | 1.36\% | 23.50 | 5.73\% |
| 4/2/2010 | 10.10\% | 4.43\% | 5.76\% | -3.12 | 1.33\% | 23.19 | 5.67\% |
| 4/27/2010 | 10.00\% | 4.46\% | 5.74\% | -3.11 | 1.29\% | 22.18 | 5.54\% |
| 4/29/2010 | 9.90\% | 4.46\% | 5.74\% | -3.11 | 1.28\% | 22.13 | 5.44\% |
| 4/29/2010 | 10.06\% | 4.46\% | 5.74\% | -3.11 | 1.28\% | 22.13 | 5.60\% |
| 4/29/2010 | 10.26\% | 4.46\% | 5.74\% | -3.11 | 1.28\% | 22.13 | 5.80\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.72\% | -3.11 | 1.27\% | 22.27 | 5.85\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.72\% | -3.11 | 1.27\% | 22.27 | 5.85\% |
| 5/28/2010 | 10.10\% | 4.44\% | 5.70\% | -3.11 | 1.26\% | 22.82 | 5.66\% |
| 5/28/2010 | 10.20\% | 4.44\% | 5.70\% | -3.11 | 1.26\% | 22.82 | 5.76\% |
| 6/7/2010 | 10.30\% | 4.44\% | 5.69\% | -3.11 | 1.25\% | 23.01 | 5.86\% |
| 6/16/2010 | 10.00\% | 4.44\% | 5.69\% | -3.11 | 1.25\% | 23.17 | 5.56\% |
| 6/28/2010 | 9.67\% | 4.43\% | 5.68\% | -3.12 | 1.25\% | 23.20 | 5.24\% |


| Date of Electric Rate Case | [6] Return on Equity (\%) |  | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/28/2010 | 10.50\% | 4.43\% | 5.68\% | -3.12 | 1.25\% | 23.20 | 6.07\% |
| 6/30/2010 | 9.40\% | 4.43\% | 5.68\% | -3.12 | 1.25\% | 23.30 | 4.97\% |
| 7/1/2010 | 10.25\% | 4.43\% | 5.68\% | -3.12 | 1.25\% | 23.35 | 5.82\% |
| 7/15/2010 | 10.53\% | 4.43\% | 5.67\% | -3.12 | 1.24\% | 23.44 | 6.10\% |
| 7/15/2010 | 10.70\% | 4.43\% | 5.67\% | -3.12 | 1.24\% | 23.44 | 6.27\% |
| 7/30/2010 | 10.70\% | 4.41\% | 5.66\% | -3.12 | 1.24\% | 23.39 | 6.29\% |
| 8/4/2010 | 10.50\% | 4.41\% | 5.65\% | -3.12 | 1.24\% | 23.39 | 6.09\% |
| 8/6/2010 | 9.83\% | 4.41\% | 5.65\% | -3.12 | 1.24\% | 23.40 | 5.42\% |
| 8/25/2010 | 9.90\% | 4.37\% | 5.60\% | -3.13 | 1.23\% | 23.38 | 5.53\% |
| 9/3/2010 | 10.60\% | 4.35\% | 5.58\% | -3.14 | 1.23\% | 23.43 | 6.25\% |
| 9/14/2010 | 10.70\% | 4.33\% | 5.56\% | -3.14 | 1.23\% | 23.46 | 6.37\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.56\% | -3.14 | 1.23\% | 23.44 | 5.67\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.56\% | -3.14 | 1.23\% | 23.44 | 5.67\% |
| 9/30/2010 | 9.75\% | 4.29\% | 5.52\% | -3.15 | 1.23\% | 23.46 | 5.46\% |
| 10/14/2010 | 10.35\% | 4.24\% | 5.48\% | -3.16 | 1.24\% | 23.48 | 6.11\% |
| 10/28/2010 | 10.70\% | 4.21\% | 5.45\% | -3.17 | 1.24\% | 23.52 | 6.49\% |
| 11/2/2010 | 10.38\% | 4.20\% | 5.44\% | -3.17 | 1.24\% | 23.57 | 6.18\% |
| 11/4/2010 | 10.70\% | 4.20\% | 5.44\% | -3.17 | 1.24\% | 23.56 | 6.50\% |
| 11/19/2010 | 10.20\% | 4.18\% | 5.42\% | -3.18 | 1.24\% | 23.30 | 6.02\% |
| 11/22/2010 | 10.00\% | 4.18\% | 5.41\% | -3.18 | 1.24\% | 23.26 | 5.82\% |
| 12/1/2010 | 10.13\% | 4.16\% | 5.40\% | -3.18 | 1.24\% | 23.19 | 5.97\% |
| 12/6/2010 | 9.86\% | 4.15\% | 5.39\% | -3.18 | 1.24\% | 23.17 | 5.71\% |
| 12/9/2010 | 10.25\% | 4.15\% | 5.39\% | -3.18 | 1.23\% | 23.12 | 6.10\% |
| 12/13/2010 | 10.70\% | 4.15\% | 5.38\% | -3.18 | 1.24\% | 23.10 | 6.55\% |
| 12/14/2010 | 10.13\% | 4.15\% | 5.38\% | -3.18 | 1.24\% | 23.10 | 5.98\% |
| 12/15/2010 | 10.44\% | 4.15\% | 5.38\% | -3.18 | 1.24\% | 23.09 | 6.29\% |
| 12/17/2010 | 10.00\% | 4.15\% | 5.38\% | -3.18 | 1.24\% | 23.08 | 5.85\% |
| 12/20/2010 | 10.60\% | 4.15\% | 5.38\% | -3.18 | 1.23\% | 23.07 | 6.45\% |
| 12/21/2010 | 10.30\% | 4.14\% | 5.38\% | -3.18 | 1.23\% | 23.07 | 6.16\% |
| 12/27/2010 | 9.90\% | 4.14\% | 5.37\% | -3.18 | 1.23\% | 23.04 | 5.76\% |
| 12/29/2010 | 11.15\% | 4.14\% | 5.37\% | -3.18 | 1.23\% | 23.04 | 7.01\% |
| 1/5/2011 | 10.15\% | 4.13\% | 5.37\% | -3.19 | 1.23\% | 23.06 | 6.02\% |
| 1/12/2011 | 10.30\% | 4.12\% | 5.36\% | -3.19 | 1.23\% | 23.04 | 6.18\% |
| 1/13/2011 | 10.30\% | 4.12\% | 5.35\% | -3.19 | 1.23\% | 23.03 | 6.18\% |
| 1/18/2011 | 10.00\% | 4.12\% | 5.35\% | -3.19 | 1.23\% | 23.02 | 5.88\% |
| 1/20/2011 | 9.30\% | 4.12\% | 5.35\% | -3.19 | 1.23\% | 23.03 | 5.18\% |
| 1/20/2011 | 10.13\% | 4.12\% | 5.35\% | -3.19 | 1.23\% | 23.03 | 6.01\% |
| 1/31/2011 | 9.60\% | 4.12\% | 5.34\% | -3.19 | 1.22\% | 23.09 | 5.48\% |
| 2/3/2011 | 10.00\% | 4.12\% | 5.33\% | -3.19 | 1.22\% | 23.10 | 5.88\% |
| 2/25/2011 | 10.00\% | 4.14\% | 5.34\% | -3.18 | 1.20\% | 22.61 | 5.86\% |
| 3/25/2011 | 9.80\% | 4.18\% | 5.35\% | -3.18 | 1.17\% | 21.32 | 5.62\% |
| 3/30/2011 | 10.00\% | 4.18\% | 5.35\% | -3.17 | 1.16\% | 21.18 | 5.82\% |
| 4/12/2011 | 10.00\% | 4.21\% | 5.35\% | -3.17 | 1.14\% | 20.76 | 5.79\% |
| 4/25/2011 | 10.74\% | 4.23\% | 5.37\% | -3.16 | 1.13\% | 20.20 | 6.51\% |
| 4/26/2011 | 9.67\% | 4.23\% | 5.37\% | -3.16 | 1.13\% | 20.15 | 5.44\% |
| 4/27/2011 | 10.40\% | 4.24\% | 5.37\% | -3.16 | 1.13\% | 20.11 | 6.16\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.37\% | -3.16 | 1.13\% | 19.87 | 5.76\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.37\% | -3.16 | 1.13\% | 19.87 | 5.76\% |
| 5/24/2011 | 10.50\% | 4.27\% | 5.38\% | -3.15 | 1.11\% | 19.45 | 6.23\% |
| 6/8/2011 | 10.75\% | 4.30\% | 5.39\% | -3.15 | 1.09\% | 19.06 | 6.45\% |
| 6/16/2011 | 9.20\% | 4.32\% | 5.40\% | -3.14 | 1.09\% | 18.86 | 4.88\% |
| 6/17/2011 | 9.95\% | 4.32\% | 5.40\% | -3.14 | 1.09\% | 18.85 | 5.63\% |
| 7/13/2011 | 10.20\% | 4.36\% | 5.43\% | -3.13 | 1.06\% | 18.50 | 5.84\% |
| 8/1/2011 | 9.20\% | 4.39\% | 5.44\% | -3.13 | 1.05\% | 18.46 | 4.81\% |
| 8/8/2011 | 10.00\% | 4.38\% | 5.43\% | -3.13 | 1.05\% | 18.77 | 5.62\% |
| 8/11/2011 | 10.00\% | 4.38\% | 5.42\% | -3.13 | 1.05\% | 19.06 | 5.62\% |
| 8/12/2011 | 10.35\% | 4.37\% | 5.42\% | -3.13 | 1.05\% | 19.14 | 5.98\% |
| 8/19/2011 | 10.25\% | 4.36\% | 5.41\% | -3.13 | 1.05\% | 19.52 | 5.89\% |
| 9/2/2011 | 12.88\% | 4.32\% | 5.37\% | -3.14 | 1.05\% | 20.30 | 8.56\% |
| 9/22/2011 | 10.00\% | 4.24\% | 5.31\% | -3.16 | 1.07\% | 21.32 | 5.76\% |
| 10/12/2011 | 10.30\% | 4.14\% | 5.23\% | -3.18 | 1.09\% | 22.80 | 6.16\% |
| 10/20/2011 | 10.50\% | 4.10\% | 5.20\% | -3.19 | 1.10\% | 23.24 | 6.40\% |
| 11/30/2011 | 10.90\% | 3.87\% | 5.03\% | -3.25 | 1.15\% | 25.24 | 7.03\% |
| 11/30/2011 | 10.90\% | 3.87\% | 5.03\% | -3.25 | 1.15\% | 25.24 | 7.03\% |
| 12/14/2011 | 10.00\% | 3.80\% | 4.97\% | -3.27 | 1.17\% | 25.64 | 6.20\% |
| 12/14/2011 | 10.30\% | 3.80\% | 4.97\% | -3.27 | 1.17\% | 25.64 | 6.50\% |
| 12/20/2011 | 10.20\% | 3.76\% | 4.94\% | -3.28 | 1.17\% | 25.73 | 6.44\% |
| 12/21/2011 | 10.20\% | 3.76\% | 4.93\% | -3.28 | 1.17\% | 25.74 | 6.44\% |
| 12/22/2011 | 9.90\% | 3.75\% | 4.92\% | -3.28 | 1.17\% | 25.74 | 6.15\% |
| 12/22/2011 | 10.40\% | 3.75\% | 4.92\% | -3.28 | 1.17\% | 25.74 | 6.65\% |
| 12/23/2011 | 10.19\% | 3.74\% | 4.92\% | -3.28 | 1.17\% | 25.74 | 6.45\% |
| 1/25/2012 | 10.50\% | 3.57\% | 4.80\% | -3.33 | 1.23\% | 25.85 | 6.93\% |
| 1/27/2012 | 10.50\% | 3.56\% | 4.78\% | -3.34 | 1.23\% | 25.86 | 6.94\% |
| 2/15/2012 | 10.20\% | 3.47\% | 4.71\% | -3.36 | 1.23\% | 26.07 | 6.73\% |
| 2/23/2012 | 9.90\% | 3.44\% | 4.68\% | -3.37 | 1.24\% | 26.09 | 6.46\% |
| 2/27/2012 | 10.25\% | 3.43\% | 4.67\% | -3.37 | 1.24\% | 26.10 | 6.82\% |
| 2/29/2012 | 10.40\% | 3.41\% | 4.66\% | -3.38 | 1.25\% | 26.12 | 6.99\% |
| 3/29/2012 | 10.37\% | 3.32\% | 4.58\% | -3.41 | 1.26\% | 25.97 | 7.05\% |
| 4/4/2012 | 10.00\% | 3.30\% | 4.56\% | -3.41 | 1.27\% | 25.86 | 6.70\% |
| 4/26/2012 | 10.00\% | 3.21\% | 4.49\% | -3.44 | 1.28\% | 25.88 | 6.79\% |
| 5/2/2012 | 10.00\% | 3.18\% | 4.47\% | -3.45 | 1.29\% | 25.81 | 6.82\% |
| 5/7/2012 | 9.80\% | 3.17\% | 4.46\% | -3.45 | 1.29\% | 25.81 | 6.63\% |
| 5/15/2012 | 10.00\% | 3.14\% | 4.43\% | -3.46 | 1.28\% | 25.77 | 6.86\% |


| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/29/2012 | 10.05\% | 3.11\% | 4.40\% | -3.47 | 1.29\% | 25.29 | 6.94\% |
| 6/7/2012 | 10.30\% | 3.08\% | 4.38\% | -3.48 | 1.30\% | 24.83 | 7.22\% |
| 6/14/2012 | 9.40\% | 3.06\% | 4.36\% | -3.49 | 1.30\% | 24.50 | 6.34\% |
| 6/15/2012 | 10.40\% | 3.06\% | 4.36\% | -3.49 | 1.30\% | 24.44 | 7.34\% |
| 6/18/2012 | 9.60\% | 3.06\% | 4.36\% | -3.49 | 1.30\% | 24.37 | 6.54\% |
| 6/19/2012 | 9.25\% | 3.05\% | 4.35\% | -3.49 | 1.30\% | 24.30 | 6.20\% |
| 6/26/2012 | 10.10\% | 3.04\% | 4.34\% | -3.49 | 1.30\% | 23.90 | 7.06\% |
| 6/29/2012 | 10.00\% | 3.04\% | 4.34\% | -3.49 | 1.30\% | 23.63 | 6.96\% |
| 7/9/2012 | 10.20\% | 3.03\% | 4.32\% | -3.50 | 1.30\% | 23.23 | 7.17\% |
| 7/16/2012 | 9.80\% | 3.02\% | 4.31\% | -3.50 | 1.29\% | 22.67 | 6.78\% |
| 7/20/2012 | 9.31\% | 3.01\% | 4.30\% | -3.50 | 1.30\% | 22.15 | 6.30\% |
| 7/20/2012 | 9.81\% | 3.01\% | 4.30\% | -3.50 | 1.30\% | 22.15 | 6.80\% |
| 9/13/2012 | 9.80\% | 2.94\% | 4.22\% | -3.53 | 1.28\% | 19.17 | 6.86\% |
| 9/19/2012 | 9.80\% | 2.94\% | 4.22\% | -3.53 | 1.28\% | 18.89 | 6.86\% |
| 9/19/2012 | 10.05\% | 2.94\% | 4.22\% | -3.53 | 1.28\% | 18.89 | 7.11\% |
| 9/26/2012 | 9.50\% | 2.94\% | 4.21\% | -3.53 | 1.27\% | 18.55 | 6.56\% |
| 10/12/2012 | 9.60\% | 2.93\% | 4.19\% | -3.53 | 1.26\% | 18.06 | 6.67\% |
| 10/23/2012 | 9.75\% | 2.93\% | 4.17\% | -3.53 | 1.24\% | 17.86 | 6.82\% |
| 10/24/2012 | 10.30\% | 2.93\% | 4.17\% | -3.53 | 1.24\% | 17.85 | 7.37\% |
| 11/9/2012 | 10.30\% | 2.92\% | 4.14\% | -3.53 | 1.22\% | 17.75 | 7.38\% |
| 11/28/2012 | 10.40\% | 2.90\% | 4.12\% | -3.54 | 1.22\% | 17.61 | 7.50\% |
| 11/29/2012 | 9.75\% | 2.89\% | 4.11\% | -3.54 | 1.22\% | 17.59 | 6.86\% |
| 11/29/2012 | 9.88\% | 2.89\% | 4.11\% | -3.54 | 1.22\% | 17.59 | 6.99\% |
| 12/5/2012 | 9.71\% | 2.89\% | 4.10\% | -3.54 | 1.22\% | 17.53 | 6.82\% |
| 12/5/2012 | 10.40\% | 2.89\% | 4.10\% | -3.54 | 1.22\% | 17.53 | 7.51\% |
| 12/12/2012 | 9.80\% | 2.88\% | 4.09\% | -3.55 | 1.21\% | 17.49 | 6.92\% |
| 12/13/2012 | 9.50\% | 2.88\% | 4.09\% | -3.55 | 1.21\% | 17.48 | 6.62\% |
| 12/13/2012 | 10.50\% | 2.88\% | 4.09\% | -3.55 | 1.21\% | 17.48 | 7.62\% |
| 12/14/2012 | 10.40\% | 2.88\% | 4.09\% | -3.55 | 1.21\% | 17.47 | 7.52\% |
| 12/19/2012 | 9.71\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.46 | 6.84\% |
| 12/19/2012 | 10.25\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.46 | 7.38\% |
| 12/20/2012 | 9.50\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 6.63\% |
| 12/20/2012 | 9.80\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 6.93\% |
| 12/20/2012 | 10.25\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 7.38\% |
| 12/20/2012 | 10.25\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 7.38\% |
| 12/20/2012 | 10.30\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 7.43\% |
| 12/20/2012 | 10.40\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 7.53\% |
| 12/20/2012 | 10.45\% | 2.87\% | 4.09\% | -3.55 | 1.21\% | 17.44 | 7.58\% |
| 12/21/2012 | 10.20\% | 2.87\% | 4.09\% | -3.55 | 1.22\% | 17.43 | 7.33\% |
| 12/26/2012 | 9.80\% | 2.86\% | 4.08\% | -3.55 | 1.22\% | 17.45 | 6.94\% |
| 1/9/2013 | 9.70\% | 2.85\% | 4.06\% | -3.56 | 1.22\% | 17.49 | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 4.06\% | -3.56 | 1.22\% | 17.49 | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 4.06\% | -3.56 | 1.22\% | 17.49 | 6.85\% |
| 1/16/2013 | 9.60\% | 2.84\% | 4.05\% | -3.56 | 1.21\% | 17.44 | 6.76\% |
| 1/16/2013 | 9.60\% | 2.84\% | 4.05\% | -3.56 | 1.21\% | 17.44 | 6.76\% |
| 2/13/2013 | 10.20\% | 2.84\% | 4.03\% | -3.56 | 1.19\% | 17.01 | 7.36\% |
| 2/22/2013 | 9.75\% | 2.85\% | 4.03\% | -3.56 | 1.17\% | 16.90 | 6.90\% |
| 2/27/2013 | 10.00\% | 2.86\% | 4.02\% | -3.56 | 1.17\% | 16.86 | 7.14\% |
| 3/14/2013 | 9.30\% | 2.88\% | 4.02\% | -3.55 | 1.14\% | 16.37 | 6.42\% |
| 3/27/2013 | 9.80\% | 2.90\% | 4.03\% | -3.54 | 1.13\% | 15.90 | 6.90\% |
| 5/1/2013 | 9.84\% | 2.94\% | 4.02\% | -3.53 | 1.08\% | 15.26 | 6.90\% |
| 5/15/2013 | 10.30\% | 2.96\% | 4.03\% | -3.52 | 1.07\% | 15.03 | 7.34\% |
| 5/30/2013 | 10.20\% | 2.98\% | 4.05\% | -3.51 | 1.07\% | 14.88 | 7.22\% |
| 5/31/2013 | 9.00\% | 2.98\% | 4.05\% | -3.51 | 1.07\% | 14.89 | 6.02\% |
| 6/11/2013 | 10.00\% | 3.00\% | 4.06\% | -3.51 | 1.06\% | 14.96 | 7.00\% |
| 6/21/2013 | 9.75\% | 3.02\% | 4.08\% | -3.50 | 1.06\% | 15.01 | 6.73\% |
| 6/25/2013 | 9.80\% | 3.03\% | 4.09\% | -3.50 | 1.06\% | 15.02 | 6.77\% |
| 7/12/2013 | 9.36\% | 3.07\% | 4.13\% | -3.48 | 1.06\% | 15.06 | 6.29\% |
| 8/8/2013 | 9.83\% | 3.14\% | 4.20\% | -3.46 | 1.05\% | 14.83 | 6.69\% |
| 8/14/2013 | 9.15\% | 3.16\% | 4.21\% | -3.45 | 1.05\% | 14.74 | 5.99\% |
| 9/11/2013 | 10.20\% | 3.26\% | 4.31\% | -3.42 | 1.04\% | 14.57 | 6.94\% |
| 9/11/2013 | 10.25\% | 3.26\% | 4.31\% | -3.42 | 1.04\% | 14.57 | 6.99\% |
| 9/24/2013 | 10.20\% | 3.31\% | 4.35\% | -3.41 | 1.04\% | 14.48 | 6.89\% |
| 10/3/2013 | 9.65\% | 3.33\% | 4.37\% | -3.40 | 1.04\% | 14.46 | 6.32\% |
| 11/6/2013 | 10.20\% | 3.41\% | 4.44\% | -3.38 | 1.03\% | 14.40 | 6.79\% |
| 11/21/2013 | 10.00\% | 3.44\% | 4.47\% | -3.37 | 1.03\% | 14.36 | 6.56\% |
| 11/26/2013 | 10.00\% | 3.45\% | 4.48\% | -3.37 | 1.03\% | 14.35 | 6.55\% |
| 12/3/2013 | 10.25\% | 3.47\% | 4.49\% | -3.36 | 1.02\% | 14.38 | 6.78\% |
| 12/4/2013 | 9.50\% | 3.47\% | 4.50\% | -3.36 | 1.02\% | 14.38 | 6.03\% |
| 12/5/2013 | 10.20\% | 3.48\% | 4.50\% | -3.36 | 1.02\% | 14.38 | 6.72\% |
| 12/9/2013 | 8.72\% | 3.48\% | 4.51\% | -3.36 | 1.02\% | 14.35 | 5.24\% |
| 12/9/2013 | 9.75\% | 3.48\% | 4.51\% | -3.36 | 1.02\% | 14.35 | 6.27\% |
| 12/13/2013 | 9.75\% | 3.50\% | 4.52\% | -3.35 | 1.02\% | 14.34 | 6.25\% |
| 12/16/2013 | 9.95\% | 3.50\% | 4.52\% | -3.35 | 1.02\% | 14.35 | 6.45\% |
| 12/16/2013 | 9.95\% | 3.50\% | 4.52\% | -3.35 | 1.02\% | 14.35 | 6.45\% |
| 12/16/2013 | 10.12\% | 3.50\% | 4.52\% | -3.35 | 1.02\% | 14.35 | 6.62\% |
| 12/17/2013 | 9.50\% | 3.51\% | 4.53\% | -3.35 | 1.02\% | 14.36 | 5.99\% |
| 12/17/2013 | 10.95\% | 3.51\% | 4.53\% | -3.35 | 1.02\% | 14.36 | 7.44\% |
| 12/18/2013 | 8.72\% | 3.51\% | 4.53\% | -3.35 | 1.02\% | 14.37 | 5.21\% |
| 12/18/2013 | 9.80\% | 3.51\% | 4.53\% | -3.35 | 1.02\% | 14.37 | 6.29\% |
| 12/19/2013 | 10.15\% | 3.51\% | 4.53\% | -3.35 | 1.02\% | 14.37 | 6.64\% |
| 12/30/2013 | 9.50\% | 3.54\% | 4.55\% | -3.34 | 1.01\% | 14.40 | 5.96\% |
| 2/20/2014 | 9.20\% | 3.68\% | 4.64\% | -3.30 | 0.96\% | 14.61 | 5.52\% |


| Date of Electric Rate Case | [6] Return on Equity (\%) | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/26/2014 | 9.75\% | 3.69\% | 4.65\% | -3.30 | 0.96\% | 14.64 | 6.06\% |
| 3/17/2014 | 9.55\% | 3.72\% | 4.67\% | -3.29 | 0.96\% | 14.72 | 5.83\% |
| 3/26/2014 | 9.40\% | 3.73\% | 4.68\% | -3.29 | 0.95\% | 14.67 | 5.67\% |
| 3/26/2014 | 9.96\% | 3.73\% | 4.68\% | -3.29 | 0.95\% | 14.67 | 6.23\% |
| 4/2/2014 | 9.70\% | 3.73\% | 4.68\% | -3.29 | 0.95\% | 14.59 | 5.97\% |
| 5/16/2014 | 9.80\% | 3.70\% | 4.63\% | -3.30 | 0.93\% | 14.38 | 6.10\% |
| 5/30/2014 | 9.70\% | 3.68\% | 4.61\% | -3.30 | 0.93\% | 14.34 | 6.02\% |
| 6/6/2014 | 10.40\% | 3.67\% | 4.60\% | -3.30 | 0.93\% | 14.27 | 6.73\% |
| 6/30/2014 | 9.55\% | 3.64\% | 4.56\% | -3.31 | 0.92\% | 13.95 | 5.91\% |
| 7/2/2014 | 9.62\% | 3.64\% | 4.56\% | -3.31 | 0.92\% | 13.91 | 5.98\% |
| 7/10/2014 | 9.95\% | 3.63\% | 4.54\% | -3.32 | 0.91\% | 13.86 | 6.32\% |
| 7/23/2014 | 9.75\% | 3.61\% | 4.52\% | -3.32 | 0.91\% | 13.71 | 6.14\% |
| 7/29/2014 | 9.45\% | 3.60\% | 4.51\% | -3.32 | 0.90\% | 13.58 | 5.85\% |
| 7/31/2014 | 9.90\% | 3.60\% | 4.50\% | -3.32 | 0.90\% | 13.57 | 6.30\% |
| 8/20/2014 | 9.75\% | 3.57\% | 4.47\% | -3.33 | 0.90\% | 13.61 | 6.18\% |
| 8/25/2014 | 9.60\% | 3.56\% | 4.46\% | -3.34 | 0.90\% | 13.59 | 6.04\% |
| 8/29/2014 | 9.80\% | 3.54\% | 4.44\% | -3.34 | 0.90\% | 13.57 | 6.26\% |
| 9/11/2014 | 9.60\% | 3.51\% | 4.42\% | -3.35 | 0.90\% | 13.56 | 6.09\% |
| 9/15/2014 | 10.25\% | 3.51\% | 4.41\% | -3.35 | 0.91\% | 13.57 | 6.74\% |
| 10/9/2014 | 9.80\% | 3.45\% | 4.36\% | -3.37 | 0.91\% | 13.61 | 6.35\% |
| 11/6/2014 | 9.56\% | 3.37\% | 4.29\% | -3.39 | 0.92\% | 14.11 | 6.19\% |
| 11/6/2014 | 10.20\% | 3.37\% | 4.29\% | -3.39 | 0.92\% | 14.11 | 6.83\% |
| 11/14/2014 | 10.20\% | 3.35\% | 4.28\% | -3.40 | 0.93\% | 13.98 | 6.85\% |
| 11/26/2014 | 9.70\% | 3.33\% | 4.27\% | -3.40 | 0.94\% | 13.82 | 6.37\% |
| 11/26/2014 | 10.20\% | 3.33\% | 4.27\% | -3.40 | 0.94\% | 13.82 | 6.87\% |
| 12/4/2014 | 9.68\% | 3.31\% | 4.25\% | -3.41 | 0.95\% | 13.79 | 6.37\% |
| 12/10/2014 | 9.25\% | 3.29\% | 4.24\% | -3.41 | 0.95\% | 13.80 | 5.96\% |
| 12/10/2014 | 9.25\% | 3.29\% | 4.24\% | -3.41 | 0.95\% | 13.80 | 5.96\% |
| 12/11/2014 | 10.07\% | 3.29\% | 4.24\% | -3.42 | 0.95\% | 13.83 | 6.78\% |
| 12/12/2014 | 10.20\% | 3.28\% | 4.23\% | -3.42 | 0.95\% | 13.87 | 6.92\% |
| 12/17/2014 | 9.17\% | 3.27\% | 4.23\% | -3.42 | 0.96\% | 13.96 | 5.90\% |
| 12/18/2014 | 9.83\% | 3.26\% | 4.22\% | -3.42 | 0.96\% | 13.98 | 6.57\% |
| 1/23/2015 | 9.50\% | 3.14\% | 4.13\% | -3.46 | 0.99\% | 14.37 | 6.36\% |
| 2/24/2015 | 9.83\% | 3.04\% | 4.06\% | -3.49 | 1.02\% | 14.67 | 6.79\% |
| 3/18/2015 | 9.75\% | 2.98\% | 4.02\% | -3.51 | 1.04\% | 14.88 | 6.77\% |
| 3/25/2015 | 9.50\% | 2.96\% | 4.00\% | -3.52 | 1.04\% | 14.94 | 6.54\% |
| 3/26/2015 | 9.72\% | 2.95\% | 4.00\% | -3.52 | 1.04\% | 14.97 | 6.77\% |
| 4/23/2015 | 10.20\% | 2.87\% | 3.94\% | -3.55 | 1.07\% | 15.19 | 7.33\% |
| 4/29/2015 | 9.53\% | 2.86\% | 3.93\% | -3.56 | 1.07\% | 15.20 | 6.67\% |
| 5/1/2015 | 9.60\% | 2.85\% | 3.93\% | -3.56 | 1.08\% | 15.23 | 6.75\% |
| 5/26/2015 | 9.75\% | 2.83\% | 3.93\% | -3.56 | 1.10\% | 15.16 | 6.92\% |
| 6/17/2015 | 9.00\% | 2.82\% | 3.95\% | -3.57 | 1.13\% | 15.29 | 6.18\% |
| 6/17/2015 | 9.00\% | 2.82\% | 3.95\% | -3.57 | 1.13\% | 15.29 | 6.18\% |
| 9/2/2015 | 9.50\% | 2.79\% | 4.00\% | -3.58 | 1.21\% | 15.67 | 6.71\% |
| 9/10/2015 | 9.30\% | 2.79\% | 4.01\% | -3.58 | 1.22\% | 15.97 | 6.51\% |
| 10/15/2015 | 9.00\% | 2.81\% | 4.06\% | -3.57 | 1.24\% | 16.67 | 6.19\% |
| 11/19/2015 | 10.00\% | 2.88\% | 4.15\% | -3.55 | 1.27\% | 16.29 | 7.12\% |
| 11/19/2015 | 10.30\% | 2.88\% | 4.15\% | -3.55 | 1.27\% | 16.29 | 7.42\% |
| 12/3/2015 | 10.00\% | 2.90\% | 4.18\% | -3.54 | 1.28\% | 16.27 | 7.10\% |
| 12/9/2015 | 9.14\% | 2.90\% | 4.19\% | -3.54 | 1.29\% | 16.32 | 6.24\% |
| 12/9/2015 | 9.14\% | 2.90\% | 4.19\% | -3.54 | 1.29\% | 16.32 | 6.24\% |
| 12/11/2015 | 10.30\% | 2.90\% | 4.20\% | -3.54 | 1.29\% | 16.41 | 7.40\% |
| 12/15/2015 | 9.60\% | 2.91\% | 4.20\% | -3.54 | 1.30\% | 16.49 | 6.69\% |
| 12/17/2015 | 9.70\% | 2.91\% | 4.21\% | -3.54 | 1.30\% | 16.53 | 6.79\% |
| 12/18/2015 | 9.50\% | 2.91\% | 4.21\% | -3.54 | 1.30\% | 16.56 | 6.59\% |
| 12/30/2015 | 9.50\% | 2.93\% | 4.23\% | -3.53 | 1.30\% | 16.59 | 6.57\% |
| 1/6/2016 | 9.50\% | 2.94\% | 4.25\% | -3.53 | 1.31\% | 16.71 | 6.56\% |
| 2/23/2016 | 9.75\% | 2.94\% | 4.31\% | -3.53 | 1.38\% | 18.29 | 6.81\% |
| 3/16/2016 | 9.85\% | 2.91\% | 4.31\% | -3.54 | 1.40\% | 18.67 | 6.94\% |
| 4/29/2016 | 9.80\% | 2.83\% | 4.25\% | -3.56 | 1.42\% | 18.56 | 6.97\% |
| 6/3/2016 | 9.75\% | 2.80\% | 4.21\% | -3.57 | 1.40\% | 18.78 | 6.95\% |
| 6/8/2016 | 9.48\% | 2.80\% | 4.20\% | -3.58 | 1.40\% | 18.67 | 6.68\% |
| 6/15/2016 | 9.00\% | 2.78\% | 4.19\% | -3.58 | 1.40\% | 18.34 | 6.22\% |
| 6/15/2016 | 9.00\% | 2.78\% | 4.19\% | -3.58 | 1.40\% | 18.34 | 6.22\% |
| 7/18/2016 | 9.98\% | 2.71\% | 4.11\% | -3.61 | 1.40\% | 17.47 | 7.27\% |
| 8/9/2016 | 9.85\% | 2.66\% | 4.05\% | -3.63 | 1.39\% | 17.06 | 7.19\% |
| 8/18/2016 | 9.50\% | 2.63\% | 4.03\% | -3.64 | 1.40\% | 16.96 | 6.87\% |
| 8/24/2016 | 9.75\% | 2.62\% | 4.01\% | -3.64 | 1.40\% | 16.91 | 7.13\% |
| 9/1/2016 | 9.50\% | 2.59\% | 3.98\% | -3.65 | 1.39\% | 16.79 | 6.91\% |
| 9/8/2016 | 10.00\% | 2.58\% | 3.97\% | -3.66 | 1.39\% | 16.69 | 7.42\% |
| 9/28/2016 | 9.58\% | 2.54\% | 3.92\% | -3.67 | 1.39\% | 16.54 | 7.04\% |
| 9/30/2016 | 9.90\% | 2.53\% | 3.91\% | -3.68 | 1.39\% | 16.46 | 7.37\% |
| 11/9/2016 | 9.80\% | 2.48\% | 3.85\% | -3.70 | 1.36\% | 15.66 | 7.32\% |
| 11/10/2016 | 9.50\% | 2.48\% | 3.84\% | -3.70 | 1.36\% | 15.62 | 7.02\% |
| 11/15/2016 | 9.55\% | 2.49\% | 3.84\% | -3.69 | 1.36\% | 15.52 | 7.06\% |
| 11/18/2016 | 10.00\% | 2.50\% | 3.84\% | -3.69 | 1.35\% | 15.39 | 7.50\% |
| 11/29/2016 | 10.55\% | 2.51\% | 3.85\% | -3.69 | 1.34\% | 14.98 | 8.04\% |
| 12/1/2016 | 10.00\% | 2.51\% | 3.85\% | -3.68 | 1.34\% | 14.90 | 7.49\% |
| 12/6/2016 | 8.64\% | 2.52\% | 3.85\% | -3.68 | 1.33\% | 14.79 | 6.12\% |
| 12/6/2016 | 8.64\% | 2.52\% | 3.85\% | -3.68 | 1.33\% | 14.79 | 6.12\% |
| 12/7/2016 | 10.10\% | 2.52\% | 3.85\% | -3.68 | 1.33\% | 14.74 | 7.58\% |
| 12/12/2016 | 9.60\% | 2.53\% | 3.86\% | -3.68 | 1.33\% | 14.63 | 7.07\% |
| 12/14/2016 | 9.10\% | 2.53\% | 3.86\% | -3.68 | 1.32\% | 14.59 | 6.57\% |


| Date of Electric Rate Case | $\begin{gathered} {[6]} \\ \text { Return on } \\ \text { Equity } \\ (\%) \\ \hline \end{gathered}$ | [7] 30 Year Treasury (\%) | [8] <br> Moody's Utility A Yield | [9] <br> LN(30-Year Treasury) | [10] <br> Moody's Utility A Credit Spread | [11] VIX | [12] <br> Risk Premium |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/19/2016 | 9.00\% | 2.54\% | 3.86\% | -3.67 | 1.32\% | 14.52 | 6.46\% |
| 12/19/2016 | 9.37\% | 2.54\% | 3.86\% | -3.67 | 1.32\% | 14.52 | 6.83\% |
| 12/22/2016 | 9.60\% | 2.55\% | 3.86\% | -3.67 | 1.31\% | 14.41 | 7.05\% |
| 12/22/2016 | 9.90\% | 2.55\% | 3.86\% | -3.67 | 1.31\% | 14.41 | 7.35\% |
| 12/28/2016 | 9.50\% | 2.55\% | 3.86\% | -3.67 | 1.31\% | 14.34 | 6.95\% |
| 1/18/2017 | 9.45\% | 2.58\% | 3.86\% | -3.66 | 1.28\% | 14.20 | 6.87\% |
| 1/24/2017 | 9.00\% | 2.59\% | 3.86\% | -3.65 | 1.27\% | 14.13 | 6.41\% |
| 1/31/2017 | 10.10\% | 2.60\% | 3.87\% | -3.65 | 1.27\% | 14.05 | 7.50\% |
| 2/15/2017 | 9.60\% | 2.62\% | 3.88\% | -3.64 | 1.25\% | 13.90 | 6.98\% |
| 2/22/2017 | 9.60\% | 2.64\% | 3.88\% | -3.64 | 1.25\% | 13.82 | 6.96\% |
| 2/24/2017 | 9.75\% | 2.64\% | 3.89\% | -3.63 | 1.25\% | 13.80 | 7.11\% |
| 2/28/2017 | 10.10\% | 2.64\% | 3.89\% | -3.63 | 1.25\% | 13.78 | 7.46\% |
| 3/2/2017 | 9.41\% | 2.65\% | 3.89\% | -3.63 | 1.24\% | 13.75 | 6.76\% |
| 3/20/2017 | 9.50\% | 2.68\% | 3.91\% | -3.62 | 1.23\% | 13.56 | 6.82\% |
| 4/4/2017 | 10.25\% | 2.71\% | 3.93\% | -3.61 | 1.22\% | 13.30 | 7.54\% |
| 4/12/2017 | 9.40\% | 2.74\% | 3.94\% | -3.60 | 1.21\% | 13.09 | 6.66\% |
| 4/20/2017 | 9.50\% | 2.76\% | 3.95\% | -3.59 | 1.19\% | 13.06 | 6.74\% |
| 5/3/2017 | 9.50\% | 2.79\% | 3.98\% | -3.58 | 1.19\% | 12.95 | 6.71\% |
| 5/11/2017 | 9.20\% | 2.81\% | 4.00\% | -3.57 | 1.18\% | 12.88 | 6.39\% |
| 5/18/2017 | 9.50\% | 2.83\% | 4.01\% | -3.57 | 1.18\% | 12.88 | 6.67\% |
| 5/23/2017 | 9.70\% | 2.84\% | 4.02\% | -3.56 | 1.18\% | 12.86 | 6.86\% |
| 6/16/2017 | 9.65\% | 2.89\% | 4.05\% | -3.54 | 1.16\% | 12.69 | 6.76\% |
| 6/22/2017 | 9.70\% | 2.90\% | 4.06\% | -3.54 | 1.16\% | 12.65 | 6.80\% |
| 6/22/2017 | 9.70\% | 2.90\% | 4.06\% | -3.54 | 1.16\% | 12.65 | 6.80\% |
| 7/24/2017 | 9.50\% | 2.95\% | 4.09\% | -3.52 | 1.15\% | 12.24 | 6.55\% |
| 8/15/2017 | 10.00\% | 2.97\% | 4.10\% | -3.52 | 1.13\% | 11.97 | 7.03\% |
| 9/22/2017 | 9.60\% | 2.93\% | 4.07\% | -3.53 | 1.14\% | 11.47 | 6.67\% |
| 9/28/2017 | 9.80\% | 2.92\% | 4.07\% | -3.53 | 1.14\% | 11.43 | 6.88\% |
| 10/20/2017 | 9.50\% | 2.91\% | 4.04\% | -3.54 | 1.13\% | 11.23 | 6.59\% |
| 10/26/2017 | 10.20\% | 2.91\% | 4.03\% | -3.54 | 1.12\% | 11.22 | 7.29\% |
| 10/26/2017 | 10.25\% | 2.91\% | 4.03\% | -3.54 | 1.12\% | 11.22 | 7.34\% |
| 10/26/2017 | 10.30\% | 2.91\% | 4.03\% | -3.54 | 1.12\% | 11.22 | 7.39\% |
| 11/6/2017 | 10.25\% | 2.90\% | 4.03\% | -3.54 | 1.12\% | 11.15 | 7.35\% |
| 11/15/2017 | 11.95\% | 2.89\% | 4.02\% | -3.54 | 1.12\% | 11.15 | 9.06\% |
| 11/30/2017 | 10.00\% | 2.88\% | 4.00\% | -3.55 | 1.12\% | 11.11 | 7.12\% |
| 11/30/2017 | 10.00\% | 2.88\% | 4.00\% | -3.55 | 1.12\% | 11.11 | 7.12\% |
| 12/5/2017 | 9.50\% | 2.88\% | 3.99\% | -3.55 | 1.11\% | 11.11 | 6.62\% |
| 12/6/2017 | 8.40\% | 2.87\% | 3.99\% | -3.55 | 1.11\% | 11.10 | 5.53\% |
| 12/6/2017 | 8.40\% | 2.87\% | 3.99\% | -3.55 | 1.11\% | 11.10 | 5.53\% |
| 12/7/2017 | 9.80\% | 2.87\% | 3.99\% | -3.55 | 1.11\% | 11.10 | 6.93\% |
| 12/14/2017 | 9.60\% | 2.86\% | 3.98\% | -3.55 | 1.11\% | 11.04 | 6.74\% |
| 12/14/2017 | 9.65\% | 2.86\% | 3.98\% | -3.55 | 1.11\% | 11.04 | 6.79\% |
| 12/18/2017 | 9.50\% | 2.86\% | 3.97\% | -3.55 | 1.11\% | 11.02 | 6.64\% |
| 12/20/2017 | 9.58\% | 2.86\% | 3.97\% | -3.56 | 1.11\% | 11.01 | 6.72\% |
| 12/21/2017 | 9.10\% | 2.85\% | 3.97\% | -3.56 | 1.11\% | 10.99 | 6.25\% |
| 12/28/2017 | 9.50\% | 2.85\% | 3.96\% | -3.56 | 1.11\% | 10.96 | 6.65\% |
| 12/29/2017 | 9.40\% | 2.85\% | 3.95\% | -3.56 | 1.11\% | 10.96 | 6.55\% |
|  |  |  |  |  |  | Average: ate Cases: | $4.61 \%$ |

Summary of Adjustment Clauses \& Alternative Regulation/Incentive Plans

|  |  |  |  |  |  | ustment Clauses |  |  |  |  | Altern | ative Regul | ation/ Incentive | Plans |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Parent | State | Fuel/ Purchased Power/Gas Commodity | Decoupling (F/P) [1] | Capital Investment (New and Replaceme nt) [2] | Energy Efficiency [3] | Renewables \& $\operatorname{RPS}[4]$ | Environm ental [5] | Other [6] | Formula- Based Rates | Price Freeze/ Cap | Earnings <br> Sharing | Formula- Based ROE | $\begin{aligned} & \text { Service } \\ & \text { Qualityl } \\ & \text { Performa } \end{aligned}$ nce | Merger Savings |
| ALLETE (Minnesota Power) | ALE | MN | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| Superior Water, Light and Power Company | ALE | wi | $\checkmark$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Interstate Power and Light Company | LNT | IA | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Wisconsin Power and Light Company | LNT | wi | $\checkmark$ |  |  |  |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Ameren Illinois Company | AEE | IL | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Union Electric Company | AEE | MO | $\checkmark$ | P |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| AEP Texas Central Company | AEP | TX | NA |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| AEP Texas North Company | AEP | TX | NA |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| Appalachian Power Company | AEP | VA | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Appalachian Power/Wheeling Power | AEP | wv | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| Indiana Michigan Power Company Indiana Michigan Power Company | AEP | IN <br> M | $\stackrel{\rightharpoonup}{*}$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Kentucky Power Company | AEP | KY | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Kingsport Power Company | AEP | TN | $\checkmark$ |  |  |  |  |  | $\checkmark$ |  |  |  |  |  |  |
| Ohio Power Company | AEP | $\bigcirc$ | $\checkmark$ | F | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Public Service Company of Oklahoma | AEP | OK AR | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Southwestern Electric Power Company | AEP | LA | $\checkmark$ |  |  |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| Southwestern Electric Power Company | AEP | TX | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Black Hills Colorado Electric Utility Company, LP | BKH | co | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |
| Black Hills Power, Inc. | BKH | SD | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Black Hills Power, Inc. | BKH | WY | $\checkmark$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Cheyenne Light, Fuel and Power Company Consumers Energy Company | BKH CMS | WY Ml | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |
| Virginia Electric and Power Company | D | NC | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |  |
| Virginia Electric and Power Company | D | VA | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| DTE Electric Company | DTE | MI | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Duke Energy Carolinas, LLC | DUK | NC | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Duke Energy Carolinas, LLC | DUK | SC | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Duke Energy Indiana, LLC | duk | in | $\checkmark$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Duke Energy Kentucky, Inc. | DUK | ${ }^{\mathrm{KY}}$ | $\checkmark$ | P |  | $\checkmark$ |  |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Duke Energy Ohio, Inc. Duke Energy Progress, LLC | DUK | OH | $\checkmark$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
| l $\begin{aligned} & \text { Duke Energy Progress, LLC } \\ & \text { Duke Energy Progress, LLC }\end{aligned}$ | DUK | NC SC | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| El Paso Electric Company | EE | NM | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| El Paso Electric Company | EE | TX | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| Hawaii Electric Light Company, Inc. | HE | H | $\checkmark$ | F |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Hawaiiin Electric Company, Inc. | HE | ${ }^{\text {H }}$ | $\checkmark$ | F |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
| Maui Electric Company, Limited Idaho Power Co. | ${ }_{\text {IE }}^{\text {IDA }}$ | HI ID | $\checkmark$ | F |  | $\stackrel{\rightharpoonup}{*}$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
| Idaho Power Co. | IDA | OR | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| NorthWestern Corporation | NWE | MT | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| NorthWestern Corporation | NWE | SD | $\checkmark$ |  |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Oklahoma Gas and Electric Company Oklahoma Gas and Electric Company | OGE | AR OK | $\checkmark$ | P | $\checkmark$ | $\stackrel{\rightharpoonup}{*}$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| - ${ }^{\text {Oklahoma Gas and Electric Company }}$ Otter Tail Power Company | OTTR | OK | $\checkmark$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |  |
| Otter Tail Power Company | OTTR | ND | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Otter Tail Power Company | OTTR | SD | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Arizona Public Service Company | PNW | AZ | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Public Service Company of New Mexico Texas New Mexico Power | PNM | TM | NA |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |
| Portland General Electric Company | POR | OR | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Alabama Power Company | so | ${ }^{\text {AL }}$ | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |
| Georgia Power Company Gulf Power Company | so | GA | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| ( ${ }^{\text {Guff Power Company }}$ Mississippi Power Company | so | ML | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
| Wisconsin Electric Power Company | WEC | MI | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |  |  |
| Wisconsin Electric Power Company | WEC | w | $\checkmark$ |  |  |  |  |  |  |  | $\checkmark$ |  |  |  |  |
| Wisconsin Public Service Corporation Northern States Power Company - MN | WEC | Wi M | $\checkmark$ | F | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |  |  |  |
| Northern States Power Company - MN | XEL | ND | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Northern States Power Company - MN | XEL | SD | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Northern States Power Company - WI | XEL | MI | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |  |  |  |
| Northern States Power Company - WI | XEL | WI | $\checkmark$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Public Sevice Company of Colorado | XEL XEL | CO NM | $\checkmark$ | P |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |  |  |  |  |
| Southwestern Public Service Company | XEL | TX | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |  |  |  |  |  |  |

Notes:
Note: Texas electric T\&D-orly, and Georgia and Ohio gas utilities do not have provider of last
resort obligations, therefore fuelpowergas cost recovery is not Note. Texas electric 1 LD-only, and Georgia and Ohio gas utilitits do not have provider of last
resort obligations, therefore fuel/powergas cost recovery is not applicable. A mechanism may cover one or more cost categories; therefore, designations may not indicate separate
[1] Full or partial decoupling (such as Straight-Fixed Variable rate design, weather
normalization clauses, and recovery of lost revenues as a result of Energy Efficiency programs).
[2] Includes recovery of costs related to targeted new generation projects, infrastructure replacement, system integrity/hardening, Smart Grid, AMl metering, and other capital expenditures.
[3] Utility-sponsored conservation, energy efficiency, load control, or other demand side management programs.
(4) Recovers costs associated with renewable energy projects, clean energy, Distributed Energy Resources, REC purchases, net metering, RPS expense, and renewable PPAs.
[5] EPA upgrade costs, emissions control \& allowance purchase costs, nuclear decommissioning, and other costs to comply with state and federal environmental mandates.
[6] Pension expenses, bad debt costs, storm costs, vegetation management, RTO/Transmission Expense, capaciiy costs, transmission costs, government \& franchise fees and taxes, economic development, and low income programs.

Sources: Company SEC Form 10-Ks; Operating company tariffs; Regulatory Research Associates, Alternative Requlation/Incentive Plans: A State-by-State Overview, November 19, 2013; Regulatory Research Associates, Adjustment Clauses: A State-by-State Overview, August 22, 2016.

| $\begin{array}{c}\text { Change in Net Plant and Asset Turnover } \\ \text { Proxy Group - Annual Average }\end{array}$ |  |  |  |
| ---: | :---: | :---: | :---: |
|  | $\begin{array}{c}\text { Average } \\ \text { Revenue/Net } \\ \text { Plant }\end{array}$ | $\begin{array}{c}\text { Average } \\ \text { Change in Net }\end{array}$ | $\begin{array}{c}\text { Cumulative } \\ \text { Change } \\ \text { Year }\end{array}$ |
| 2008 | $63.09 \%$ |  |  |
| 2009 | $51.93 \%$ | $8.16 \%$ | $8.16 \%$ |
| 2010 | $52.12 \%$ | $6.36 \%$ | $15.04 \%$ |
| 2011 | $50.74 \%$ | $6.12 \%$ | $22.07 \%$ |
| 2012 | $45.25 \%$ | $8.02 \%$ | $31.87 \%$ |
| 2013 | $44.40 \%$ | $4.62 \%$ | $37.96 \%$ |
| 2014 | $42.55 \%$ | $9.17 \%$ | $50.61 \%$ |
| 2015 | $36.76 \%$ | $11.99 \%$ | $68.66 \%$ |
| 2016 | $34.55 \%$ | $9.04 \%$ | $83.90 \%$ |
| in Net Plant |  |  |  |$]$

Change in Net Plant and Asset Turnover
Proxy Group - Individual Company Results

| Ticker | Year |  | Revenue |  | Net Plant | Revenue/Net Plant | Change in Net Plant | $\begin{gathered} \hline \text { Change in } \\ \text { Revenue/Net } \\ \text { Plant } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALE | 2008 | \$ | 801.00 | \$ | 1,387.30 | 57.74\% |  |  |
| ALE | 2009 |  | 759.10 |  | 1,622.70 | 46.78\% | 16.97\% | -18.98\% |
| ALE | 2010 |  | 907.00 |  | 1,805.60 | 50.23\% | 11.27\% | 7.38\% |
| ALE | 2011 |  | 928.20 |  | 1,982.70 | 46.81\% | 9.81\% | -6.80\% |
| ALE | 2012 |  | 961.20 |  | 2,347.60 | 40.94\% | 18.40\% | -12.54\% |
| ALE | 2013 |  | 1,018.40 |  | 2,576.50 | 39.53\% | 9.75\% | -3.46\% |
| ALE | 2014 |  | 1,136.80 |  | 3,286.40 | 34.59\% | 27.55\% | -12.49\% |
| ALE | 2015 |  | 1,486.40 |  | 3,669.10 | 40.51\% | 11.64\% | 17.11\% |
| ALE | 2016 |  | 1,339.70 |  | 3,741.20 | 35.81\% | 1.97\% | -11.61\% |
| ALE | 2020-22 |  | 1,655.00 |  | 4,000.00 | 41.38\% | 6.92\% | 15.54\% |
| LNT | 2008 | \$ | 3,681.70 | \$ | 5,353.50 | 68.77\% |  |  |
| LNT | 2009 |  | 3,432.80 |  | 6,203.00 | 55.34\% | 15.87\% | -19.53\% |
| LNT | 2010 |  | 3,416.10 |  | 6,730.60 | 50.75\% | 8.51\% | -8.29\% |
| LNT | 2011 |  | 3,665.30 |  | 7,037.10 | 52.09\% | 4.55\% | 2.62\% |
| LNT | 2012 |  | 3,094.50 |  | 7,838.00 | 39.48\% | 11.38\% | -24.20\% |
| LNT | 2013 |  | 3,276.80 |  | 7,147.30 | 45.85\% | -8.81\% | 16.12\% |
| LNT | 2014 |  | 3,350.30 |  | 6,442.00 | 52.01\% | -9.87\% | 13.44\% |
| LNT | 2015 |  | 3,253.60 |  | 8,970.20 | 36.27\% | 39.25\% | -30.26\% |
| LNT | 2016 |  | 3,320.00 |  | 9,809.90 | 33.84\% | 9.36\% | -6.69\% |
| LNT | 2020-22 |  | 3,895.00 |  | 11,000.00 | 35.41\% | 12.13\% | 4.63\% |
| AEE | 2008 | \$ | 7,839.00 | \$ | 16,567.00 | 47.32\% |  |  |
| AEE | 2009 |  | 7,090.00 |  | 17,610.00 | 40.26\% | 6.30\% | -14.91\% |
| AEE | 2010 |  | 7,638.00 |  | 17,853.00 | 42.78\% | 1.38\% | 6.26\% |
| AEE | 2011 |  | 7,531.00 |  | 18,127.00 | 41.55\% | 1.53\% | -2.89\% |
| AEE | 2012 |  | 6,828.00 |  | 16,096.00 | 42.42\% | -11.20\% | 2.11\% |
| AEE | 2013 |  | 5,838.00 |  | 16,205.00 | 36.03\% | 0.68\% | -15.07\% |
| AEE | 2014 |  | 6,053.00 |  | 17,424.00 | 34.74\% | 7.52\% | -3.57\% |
| AEE | 2015 |  | 6,098.00 |  | 18,799.00 | 32.44\% | 7.89\% | -6.63\% |
| AEE | 2016 |  | 6,076.00 |  | 20,113.00 | 30.21\% | 6.99\% | -6.87\% |
| AEE | 2020-22 |  | 7,000.00 |  | 26,200.00 | 26.72\% | 30.26\% | -11.56\% |
| AEP | 2008 | \$ | 14,440.00 | \$ | 32,987.00 | 43.77\% |  |  |
| AEP | 2009 |  | 13,489.00 |  | 34,344.00 | 39.28\% | 4.11\% | -10.28\% |
| AEP | 2010 |  | 14,427.00 |  | 35,674.00 | 40.44\% | 3.87\% | 2.97\% |
| AEP | 2011 |  | 15,116.00 |  | 36,971.00 | 40.89\% | 3.64\% | 1.10\% |
| AEP | 2012 |  | 14,945.00 |  | 38,763.00 | 38.55\% | 4.85\% | -5.70\% |
| AEP | 2013 |  | 15,357.00 |  | 40,997.00 | 37.46\% | 5.76\% | -2.84\% |
| AEP | 2014 |  | 17,020.00 |  | 44,117.00 | 38.58\% | 7.61\% | 2.99\% |
| AEP | 2015 |  | 16,453.00 |  | 46,133.00 | 35.66\% | 4.57\% | -7.56\% |
| AEP | 2016 |  | 16,380.00 |  | 45,639.00 | 35.89\% | -1.07\% | 0.63\% |
| AEP | 2020-22 |  | 17,000.00 |  | 65,300.00 | 26.03\% | 43.08\% | -27.46\% |
| BKH | 2008 | \$ | 1,005.80 | \$ | 2,022.20 | 49.74\% |  |  |
| BKH | 2009 |  | 1,269.60 |  | 2,160.70 | 58.76\% | 6.85\% | 18.14\% |
| BKH | 2010 |  | 1,307.30 |  | 2,495.40 | 52.39\% | 15.49\% | -10.84\% |
| BKH | 2011 |  | 1,272.20 |  | 2,789.60 | 45.61\% | 11.79\% | -12.95\% |
| BKH | 2012 |  | 1,173.90 |  | 2,742.70 | 42.80\% | -1.68\% | -6.15\% |
| BKH | 2013 |  | 1,275.90 |  | 2,990.30 | 42.67\% | 9.03\% | -0.31\% |
| BKH | 2014 |  | 1,393.60 |  | 3,239.40 | 43.02\% | 8.33\% | 0.83\% |
| BKH | 2015 |  | 1,304.60 |  | 3,259.10 | 40.03\% | 0.61\% | -6.95\% |
| BKH | 2016 |  | 1,573.00 |  | 4,469.00 | 35.20\% | 37.12\% | -12.07\% |
| BKH | 2020-22 |  | 2,025.00 |  | 5,275.00 | 38.39\% | 18.04\% | 9.06\% |
| CMS | 2008 | \$ | 6,821.00 | \$ | 9,190.00 | 74.22\% |  |  |
| CMS | 2009 |  | 6,205.00 |  | 9,682.00 | 64.09\% | 5.35\% | -13.65\% |
| CMS | 2010 |  | 6,432.00 |  | 10,069.00 | 63.88\% | 4.00\% | -0.33\% |
| CMS | 2011 |  | 6,503.00 |  | 10,633.00 | 61.16\% | 5.60\% | -4.26\% |
| CMS | 2012 |  | 6,312.00 |  | 11,551.00 | 54.64\% | 8.63\% | -10.65\% |
| CMS | 2013 |  | 6,566.00 |  | 12,246.00 | 53.62\% | 6.02\% | -1.88\% |
| CMS | 2014 |  | 7,179.00 |  | 13,412.00 | 53.53\% | 9.52\% | -0.17\% |
| CMS | 2015 |  | 6,456.00 |  | 14,705.00 | 43.90\% | 9.64\% | -17.98\% |
| CMS | 2016 |  | 6,399.00 |  | 15,715.00 | 40.72\% | 6.87\% | -7.25\% |
| CMS | 2020-22 |  | 7,500.00 |  | 19,900.00 | 37.69\% | 26.63\% | -7.44\% |
| D | 2008 | \$ | 16,290.00 | \$ | 23,274.00 | 69.99\% |  |  |
| D | 2009 |  | 15,131.00 |  | 25,592.00 | 59.12\% | 9.96\% | -15.53\% |
| D | 2010 |  | 15,197.00 |  | 26,713.00 | 56.89\% | 4.38\% | -3.78\% |
| D | 2011 |  | 14,379.00 |  | 29,670.00 | 48.46\% | 11.07\% | -14.81\% |
| D | 2012 |  | 13,093.00 |  | 30,773.00 | 42.55\% | 3.72\% | -12.21\% |
| D | 2013 |  | 13,120.00 |  | 32,628.00 | 40.21\% | 6.03\% | -5.49\% |
| D | 2014 |  | 12,436.00 |  | 36,270.00 | 34.29\% | 11.16\% | -14.73\% |
| D | 2015 |  | 11,683.00 |  | 41,554.00 | 28.12\% | 14.57\% | -18.00\% |

Change in Net Plant and Asset Turnover
Proxy Group - Individual Company Results

| Ticker | Year | Revenue |  | Net Plant | Revenue/Net Plant | Change in Net Plant | Change in Revenue/Net Plant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | 2016 | 11,737.00 |  | 49,964.00 | 23.49\% | 20.24\% | -16.45\% |
| D | 2020-22 | 13,850.00 |  | 64,300.00 | 21.54\% | 28.69\% | -8.31\% |
| DTE | 2008 \$ | 9,329.00 | \$ | 12,231.00 | 76.27\% |  |  |
| DTE | 2009 | 8,014.00 |  | 12,431.00 | 64.47\% | 1.64\% | -15.48\% |
| DTE | 2010 | 8,557.00 |  | 12,992.00 | 65.86\% | 4.51\% | 2.17\% |
| DTE | 2011 | 8,897.00 |  | 13,746.00 | 64.72\% | 5.80\% | -1.73\% |
| DTE | 2012 | 8,791.00 |  | 14,684.00 | 59.87\% | 6.82\% | -7.50\% |
| DTE | 2013 | 9,661.00 |  | 15,800.00 | 61.15\% | 7.60\% | 2.13\% |
| DTE | 2014 | 12,301.00 |  | 16,820.00 | 73.13\% | 6.46\% | 19.61\% |
| DTE | 2015 | 10,337.00 |  | 18,034.00 | 57.32\% | 7.22\% | -21.62\% |
| DTE | 2016 | 10,630.00 |  | 19,730.00 | 53.88\% | 9.40\% | -6.01\% |
| DTE | 2020-22 | 15,000.00 |  | 26,300.00 | 57.03\% | 33.30\% | 5.86\% |
| DUK | 2008 \$ | 13,207.00 | \$ | 34,036.00 | 38.80\% |  |  |
| DUK | 2009 | 12,731.00 |  | 37,950.00 | 33.55\% | 11.50\% | -13.55\% |
| DUK | 2010 | 14,272.00 |  | 40,344.00 | 35.38\% | 6.31\% | 5.45\% |
| DUK | 2011 | 14,529.00 |  | 42,661.00 | 34.06\% | 5.74\% | -3.73\% |
| DUK | 2012 | 19,624.00 |  | 68,558.00 | 28.62\% | 60.70\% | -15.95\% |
| DUK | 2013 | 24,598.00 |  | 69,490.00 | 35.40\% | 1.36\% | 23.67\% |
| DUK | 2014 | 23,925.00 |  | 70,046.00 | 34.16\% | 0.80\% | -3.51\% |
| DUK | 2015 | 23,459.00 |  | 75,709.00 | 30.99\% | 8.08\% | -9.28\% |
| DUK | 2016 | 22,743.00 |  | 82,520.00 | 27.56\% | 9.00\% | -11.05\% |
| DUK | 2020-22 | 26,650.00 |  | 109,100.00 | 24.43\% | 32.21\% | -11.37\% |
| EE | 2008 \$ | 1,038.90 | \$ | 1,595.60 | 65.11\% |  |  |
| EE | 2009 | 828.00 |  | 1,756.00 | 47.15\% | 10.05\% | -27.58\% |
| EE | 2010 | 877.30 |  | 1,865.80 | 47.02\% | 6.25\% | -0.28\% |
| EE | 2011 | 918.00 |  | 1,947.10 | 47.15\% | 4.36\% | 0.27\% |
| EE | 2012 | 852.90 |  | 2,102.30 | 40.57\% | 7.97\% | -13.95\% |
| EE | 2013 | 890.40 |  | 2,257.50 | 39.44\% | 7.38\% | -2.78\% |
| EE | 2014 | 917.50 |  | 2,488.40 | 36.87\% | 10.23\% | -6.52\% |
| EE | 2015 | 849.90 |  | 2,695.50 | 31.53\% | 8.32\% | -14.48\% |
| EE | 2016 | 886.90 |  | 2,821.20 | 31.44\% | 4.66\% | -0.30\% |
| EE | 2020-22 | 1,025.00 |  | 3,325.00 | 30.83\% | 17.86\% | -1.94\% |
| HE | 2008 \$ | 3,218.90 | \$ | 2,907.40 | 110.71\% |  |  |
| HE | 2009 | 2,309.60 |  | 3,088.60 | 74.78\% | 6.23\% | -32.46\% |
| HE | 2010 | 2,665.00 |  | 3,165.90 | 84.18\% | 2.50\% | 12.57\% |
| HE | 2011 | 3,242.30 |  | 3,334.50 | 97.23\% | 5.33\% | 15.51\% |
| HE | 2012 | 3,375.00 |  | 3,594.80 | 93.89\% | 7.81\% | -3.44\% |
| HE | 2013 | 3,238.50 |  | 3,858.90 | 83.92\% | 7.35\% | -10.61\% |
| HE | 2014 | 3,239.50 |  | 4,148.80 | 78.08\% | 7.51\% | -6.96\% |
| HE | 2015 | 2,603.00 |  | 4,377.70 | 59.46\% | 5.52\% | -23.85\% |
| HE | 2016 | 2,380.70 |  | 4,603.50 | 51.71\% | 5.16\% | -13.03\% |
| HE | 2020-22 | 2,950.00 |  | 5,525.00 | 53.39\% | 20.02\% | 3.25\% |
| IDA | 2008 \$ | 960.40 | \$ | 2,758.20 | 34.82\% |  |  |
| IDA | 2009 | 1,049.80 |  | 2,917.00 | 35.99\% | 5.76\% | 3.36\% |
| IDA | 2010 | 1,036.00 |  | 3,161.40 | 32.77\% | 8.38\% | -8.94\% |
| IDA | 2011 | 1,026.80 |  | 3,406.60 | 30.14\% | 7.76\% | -8.02\% |
| IDA | 2012 | 1,080.70 |  | 3,536.00 | 30.56\% | 3.80\% | 1.40\% |
| IDA | 2013 | 1,246.20 |  | 3,665.00 | 34.00\% | 3.65\% | 11.26\% |
| IDA | 2014 | 1,282.50 |  | 3,833.50 | 33.46\% | 4.60\% | -1.61\% |
| IDA | 2015 | 1,270.30 |  | 3,992.40 | 31.82\% | 4.15\% | -4.89\% |
| IDA | 2016 | 1,262.00 |  | 4,172.00 | 30.25\% | 4.50\% | -4.93\% |
| IDA | 2020-22 | 1,400.00 |  | 4,925.00 | 28.43\% | 18.05\% | -6.03\% |
| NWE | 2008 \$ | 1,260.80 | \$ | 1,839.70 | 68.53\% |  |  |
| NWE | 2009 | 1,141.90 |  | 1,964.10 | 58.14\% | 6.76\% | -15.17\% |
| NWE | 2010 | 1,110.70 |  | 2,118.00 | 52.44\% | 7.84\% | -9.80\% |
| NWE | 2011 | 1,117.30 |  | 2,213.30 | 50.48\% | 4.50\% | -3.74\% |
| NWE | 2012 | 1,070.30 |  | 2,435.60 | 43.94\% | 10.04\% | -12.95\% |
| NWE | 2013 | 1,154.50 |  | 2,690.10 | 42.92\% | 10.45\% | -2.34\% |
| NWE | 2014 | 1,204.90 |  | 3,758.00 | 32.06\% | 39.70\% | -25.29\% |
| NWE | 2015 | 1,214.30 |  | 4,059.50 | 29.91\% | 8.02\% | -6.70\% |
| NWE | 2016 | 1,257.20 |  | 4,214.90 | 29.83\% | 3.83\% | -0.28\% |
| NWE | 2020-22 | 1,575.00 |  | 4,875.00 | 32.31\% | 15.66\% | 8.32\% |
| OGE | 2008 \$ | 4,070.70 | \$ | 5,249.80 | 77.54\% |  |  |
| OGE | 2009 | 2,869.70 |  | 5,911.60 | 48.54\% | 12.61\% | -37.40\% |
| OGE | 2010 | 3,716.90 |  | 6,464.40 | 57.50\% | 9.35\% | 18.45\% |
| OGE | 2011 | 3,915.90 |  | 7,474.00 | 52.39\% | 15.62\% | -8.88\% |
| OGE | 2012 | 3,671.20 |  | 8,344.80 | 43.99\% | 11.65\% | -16.03\% |
| OGE | 2013 | 2,867.70 |  | 6,672.80 | 42.98\% | -20.04\% | -2.31\% |

Change in Net Plant and Asset Turnover
Proxy Group - Individual Company Results

| Ticker | Year |  | Revenue |  | Net Plant | Revenue/Net Plant | Change in Net Plant | Change in Revenue/Net Plant |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OGE | 2014 |  | 2,453.10 |  | 6,979.90 | 35.15\% | 4.60\% | -18.22\% |
| OGE | 2015 |  | 2,196.90 |  | 7,322.40 | 30.00\% | 4.91\% | -14.63\% |
| OGE | 2016 |  | 2,259.20 |  | 7,696.20 | 29.35\% | 5.10\% | -2.16\% |
| OGE | 2020-22 |  | 2,850.00 |  | 8,725.00 | 32.66\% | 13.37\% | 11.28\% |
| OTTR | 2008 | \$ | 1,311.20 | \$ | 1,037.60 | 126.37\% |  |  |
| OTTR | 2009 |  | 1,039.50 |  | 1,098.60 | 94.62\% | 5.88\% | -25.12\% |
| OTTR | 2010 |  | 1,119.10 |  | 1,108.70 | 100.94\% | 0.92\% | 6.68\% |
| OTTR | 2011 |  | 1,077.90 |  | 1,077.50 | 100.04\% | -2.81\% | -0.89\% |
| OTTR | 2012 |  | 859.20 |  | 1,049.50 | 81.87\% | -2.60\% | -18.16\% |
| OTTR | 2013 |  | 893.30 |  | 1,167.00 | 76.55\% | 11.20\% | -6.50\% |
| OTTR | 2014 |  | 799.30 |  | 1,268.50 | 63.01\% | 8.70\% | -17.68\% |
| OTTR | 2015 |  | 779.80 |  | 1,387.80 | 56.19\% | 9.40\% | -10.83\% |
| OTTR | 2016 |  | 803.50 |  | 1,477.20 | 54.39\% | 6.44\% | -3.20\% |
| OTTR | 2020-22 |  | 1,100.00 |  | 1,850.00 | 59.46\% | 25.24\% | 9.31\% |
| PNW | 2008 | \$ | 3,367.10 | \$ | 8,916.70 | 37.76\% |  |  |
| PNW | 2009 |  | 3,297.10 |  | 9,257.80 | 35.61\% | 3.83\% | -5.69\% |
| PNW | 2010 |  | 3,263.60 |  | 9,578.80 | 34.07\% | 3.47\% | -4.33\% |
| PNW | 2011 |  | 3,241.40 |  | 9,962.30 | 32.54\% | 4.00\% | -4.50\% |
| PNW | 2012 |  | 3,301.80 |  | 10,396.00 | 31.76\% | 4.35\% | -2.39\% |
| PNW | 2013 |  | 3,454.60 |  | 10,889.00 | 31.73\% | 4.74\% | -0.11\% |
| PNW | 2014 |  | 3,491.60 |  | 11,194.00 | 31.19\% | 2.80\% | -1.68\% |
| PNW | 2015 |  | 3,495.40 |  | 11,809.00 | 29.60\% | 5.49\% | -5.10\% |
| PNW | 2016 |  | 3,498.70 |  | 12,714.00 | 27.52\% | 7.66\% | -7.03\% |
| PNW | 2020-22 |  | 4,500.00 |  | 15,100.00 | 29.80\% | 18.77\% | 8.30\% |
| PNM | 2008 | \$ | 1,959.50 | \$ | 3,192.00 | 61.39\% |  |  |
| PNM | 2009 |  | 1,647.70 |  | 3,332.40 | 49.44\% | 4.40\% | -19.45\% |
| PNM | 2010 |  | 1,673.50 |  | 3,444.40 | 48.59\% | 3.36\% | -1.74\% |
| PNM | 2011 |  | 1,700.60 |  | 3,627.10 | 46.89\% | 5.30\% | -3.50\% |
| PNM | 2012 |  | 1,342.40 |  | 3,746.50 | 35.83\% | 3.29\% | -23.58\% |
| PNM | 2013 |  | 1,387.90 |  | 3,933.90 | 35.28\% | 5.00\% | -1.54\% |
| PNM | 2014 |  | 1,435.90 |  | 4,270.00 | 33.63\% | 8.54\% | -4.68\% |
| PNM | 2015 |  | 1,439.10 |  | 4,535.40 | 31.73\% | 6.22\% | -5.64\% |
| PNM | 2016 |  | 1,363.00 |  | 4,904.70 | 27.79\% | 8.14\% | -12.42\% |
| PNM | 2020-22 |  | 1,725.00 |  | 5,525.00 | 31.22\% | 12.65\% | 12.35\% |
| POR | 2008 | \$ | 1,745.00 | \$ | 3,301.00 | 52.86\% |  |  |
| POR | 2009 |  | 1,804.00 |  | 3,858.00 | 46.76\% | 16.87\% | -11.54\% |
| POR | 2010 |  | 1,783.00 |  | 4,133.00 | 43.14\% | 7.13\% | -7.74\% |
| POR | 2011 |  | 1,813.00 |  | 4,285.00 | 42.31\% | 3.68\% | -1.92\% |
| POR | 2012 |  | 1,805.00 |  | 4,392.00 | 41.10\% | 2.50\% | -2.87\% |
| POR | 2013 |  | 1,810.00 |  | 4,880.00 | 37.09\% | 11.11\% | -9.75\% |
| POR | 2014 |  | 1,900.00 |  | 5,679.00 | 33.46\% | 16.37\% | -9.80\% |
| POR | 2015 |  | 1,898.00 |  | 6,012.00 | 31.57\% | 5.86\% | -5.64\% |
| POR | 2016 |  | 1,923.00 |  | 6,434.00 | 29.89\% | 7.02\% | -5.33\% |
| POR | 2020-22 |  | 2,300.00 |  | 6,450.00 | 35.66\% | 0.25\% | 19.31\% |
| SO | 2008 | \$ | 17,127.00 | \$ | 35,878.00 | 47.74\% |  |  |
| SO | 2009 |  | 15,743.00 |  | 39,230.00 | 40.13\% | 9.34\% | -15.93\% |
| SO | 2010 |  | 17,456.00 |  | 42,002.00 | 41.56\% | 7.07\% | 3.56\% |
| SO | 2011 |  | 17,657.00 |  | 45,010.00 | 39.23\% | 7.16\% | -5.61\% |
| SO | 2012 |  | 16,537.00 |  | 48,390.00 | 34.17\% | 7.51\% | -12.88\% |
| SO | 2013 |  | 17,087.00 |  | 51,208.00 | 33.37\% | 5.82\% | -2.36\% |
| SO | 2014 |  | 18,467.00 |  | 54,868.00 | 33.66\% | 7.15\% | 0.87\% |
| SO | 2015 |  | 17,489.00 |  | 61,114.00 | 28.62\% | 11.38\% | -14.97\% |
| SO | 2016 |  | 19,896.00 |  | 78,446.00 | 25.36\% | 28.36\% | -11.37\% |
| SO | 2020-22 |  | 26,450.00 |  | 99,800.00 | 26.50\% | 27.22\% | 4.50\% |
| WEC | 2008 | \$ | 4,431.00 | \$ | 8,517.00 | 52.03\% |  |  |
| WEC | 2009 |  | 4,127.90 |  | 9,070.50 | 45.51\% | 6.50\% | -12.53\% |
| WEC | 2010 |  | 4,202.50 |  | 9,601.50 | 43.77\% | 5.85\% | -3.82\% |
| WEC | 2011 |  | 4,486.40 |  | 10,160.00 | 44.16\% | 5.82\% | 0.89\% |
| WEC | 2012 |  | 4,246.40 |  | 10,572.00 | 40.17\% | 4.06\% | -9.04\% |
| WEC | 2013 |  | 4,519.00 |  | 10,907.00 | 41.43\% | 3.17\% | 3.15\% |
| WEC | 2014 |  | 4,997.10 |  | 11,258.00 | 44.39\% | 3.22\% | 7.13\% |
| WEC | 2015 |  | 5,926.10 |  | 19,190.00 | 30.88\% | 70.46\% | -30.43\% |
| WEC | 2016 |  | 7,472.30 |  | 19,916.00 | 37.52\% | 3.78\% | 21.49\% |
| WEC | 2020-22 |  | 8,900.00 |  | 27,800.00 | 32.01\% | 39.59\% | -14.67\% |
| XEL | 2008 | \$ | 11,203.00 | \$ | 17,689.00 | 63.33\% |  |  |
| XEL | 2009 |  | 9,644.30 |  | 18,508.00 | 52.11\% | 4.63\% | -17.72\% |
| XEL | 2010 |  | 10,311.00 |  | 20,663.00 | 49.90\% | 11.64\% | -4.24\% |
| XEL | 2011 |  | 10,655.00 |  | 22,353.00 | 47.67\% | 8.18\% | -4.48\% |

$\left.\begin{array}{lcrccrr}\text { Change in Net Plant and Asset Turnover } \\ \text { Proxy Group - Individual Company Results }\end{array}\right]$

## Change in Net Plant and Asset Turnover

Regression Analysis

## SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.324247105 |
| R Square | 0.105136185 |
| Adjusted R Square | 0.100350817 |
| Standard Error | 0.100147332 |
| Observations | 189 |



## Kansas City Power \& Light Company

Capitalization
June 30, 2018 Projected
(\$ in 000's)

|  | AMOUNT |  | REQUIRED <br> RETURN | $\begin{aligned} & \text { WEIGHTED } \\ & \text { RETURN } \end{aligned}$ | AFTER-TAX |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 21.00\% |
|  |  | PERCENT |  |  | WEIGHTED RETURN |
| KCP\&L Long-Term Debt [1] | \$2,549,380 | 49.97\% | 5.06\% | 2.5259\% | 1.9955\% |
| KCP\&L Common Equity | 2,552,787 | 50.03\% | 9.85\% | 4.9283\% | 4.9283\% |
| Total KCP\&L Capital | \$5,102,167 | 100.00\% |  | 7.4542\% | 6.9238\% |

[1] Excludes unamortized debt expenses and discounts. Includes current maturities of long-term debt.
Kansas City Power \& Light Company

| Capitalization |
| :---: |
| November 30, 2017 Actual |


| (\$ in 000's) |
| :---: | ---: | ---: | ---: | ---: | ---: |

AMOUNT
[1] Excludes unamortized debt expenses and discounts. Includes current maturities of long-term debt.


Notes:
(1) Expenses associated with the Senior Notes are being amortized over a 10 year period.
(2) Expenses associated with the Senior Notes are being amortized over a 30 year period.
(3) Expenses associated with the Senior Notes are being amortized over a 30 year period.
(3) Expenses associated with the Senior Notes are being amortized over a 30 year period.
(4) Projected Issuance Expense
(4] Projected Issuance Expense

Cost of Long-Term Debt Comparison

sources: Schedule RBH-10 and Bloomberg Professional
[1] Date of Offering in the future.

Proxy Group Capital Structur

|  |  |  |  |  |  | \% Common Equity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 201703 | 201702 | 201701 | 201604 | 201603 | 201602 | 201601 | 201504 | Average |
| ALLETE, Inc. | ALE | 61.03\% | ${ }^{60.62 \%}$ | 60.28\% | 59.02\% | 59.28\% | 59.08\% | 58.83\% | ${ }^{58.04 \%}$ | ${ }^{59.52 \%}$ |
| Alliant Energy Corporation | LNT | 51.03\% | 50.17\% | 49.77\% | 49.65\% | 49.61\% | 50.02\% | 50.41\% | 50.00\% | 50.08\% |
| Ameren Corporation | AEE | 53.00\% | 52.55\% | 52.21\% | 52.06\% | 53.40\% | 52.52\% | 52.24\% | 51.66\% | 52.45\% |
| American Electric Power Company, Inc. | AEP | 49.16\% | 49.40\% | 49.71\% | 49.90\% | 49.81\% | 49.66\% | 49.13\% | 48.82\% | 49.45\% |
| Black Hills Corporation | BKH | 54.75\% | 53.84\% | 53.20\% | 52.81\% | 52.73\% | 52.55\% | 52.57\% | 52.51\% | 53.12\% |
| CMS Energy Corporation | cms | 53.09\% | 52.81\% | 51.93\% | 51.07\% | 51.13\% | 52.14\% | 51.25\% | 50.46\% | 51.74\% |
| Dominion Resources, Inc. |  | 50.84\% | 50.92\% | 50.94\% | 52.83\% | 54.62\% | 53.48\% | 52.85\% | 53.03\% | 52.44\% |
| DTE Energy Company | DTE | 50.50\% | 50.63\% | 50.50\% | 50.50\% | 50.13\% | 49.35\% | 50.53\% | 50.39\% | 50.31\% |
| Duke Energy Corporation | DUK | 53.78\% | 54.62\% | 54.37\% | 54.66\% | 54.58\% | 54.85\% | 56.18\% | 56.81\% | 54.98\% |
| El Paso Electric Company | EE | 49.81\% | 48.01\% | 47.48\% | 47.73\% | 47.73\% | 46.22\% | 45.95\% | 49.86\% | 47.85\% |
| Hawaian Electric Industries, Inc. | HE | 58.11\% | 57.76\% | 57.71\% | 57.70\% | 58.00\% | 57.67\% | 57.51\% | 57.48\% | 57.74\% |
| IDACORP, Inc. | IDA | 54.22\% | 53.48\% | 53.22\% | 53.15\% | 53.15\% | 52.46\% | 50.70\% | 52.34\% | 52.84\% |
| NorthWestern Corporation | NWE | 48.86\% | 48.61\% | 48.61\% | 48.13\% | 47.72\% | 47.66\% | 47.54\% | 47.31\% | 48.05\% |
| OGE Energy Corp | OGE | 53.05\% | 52.75\% | 53.46\% | 56.09\% | 56.23\% | 55.50\% | 55.17\% | 54.30\% | 54.57\% |
| Otter Tail Corporation | OTTR | 57.24\% | 55.31\% | 55.31\% | 55.06\% | 54.80\% | 54.15\% | 53.10\% | 52.75\% | 54.71\% |
| Pinnacle West Capital Corporation | PNW | 53.05\% | 53.32\% | 53.20\% | 54.59\% | 54.70\% | 53.13\% | 55.54\% | 55.50\% | 54.13\% |
| PNM Resources, inc. | PNM | 47.41\% | 46.71\% | 46.20\% | 45.84\% | 45.90\% | 44.71\% | 45.17\% | 45.14\% | 45.89\% |
| Portland General Electric Company | PoR | 50.17\% | 50.32\% | 50.28\% | 49.82\% | 49.72\% | 49.64\% | 50.89\% | 50.61\% | 50.18\% |
| Southern Company | so | 49.47\% | 49.51\% | 50.17\% | 49.82\% | 48.64\% | 48.00\% | 46.40\% | 47.93\% | 48.74\% |
| WEC Energy Group, Inc. | WEC | 55.68\% | 55.34\% | 54.66\% | 56.12\% | 56.07\% | 55.74\% | 55.66\% | 55.25\% | 55.57\% |
| Xcel Energy Inc. | XEL | 53.93\% | 54.37\% | 54.94\% | 54.37\% | 53.45\% | 54.17\% | 54.68\% | 54.43\% | $\frac{54.29 \%}{5232 \%}$ |


| Operating Company Capital Structure |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Operating Company | Parent | 201703 | 2017Q2 | 201701 | $2016{ }^{4}$ | 201603 | 201602 | 201601 | 2015 P 4 | Average |
| ALLETE (Minnesota Power) | ALE | 59.73\% | 59.16\% | 58.71\% | 56.92\% | 56.90\% | 56.63\% | 56.60\% | 55.86\% | 57.57\% |
| Superior Water, Light and Power Company | ALE | 62.33\% | 62.08\% | 61.85\% | 61.12\% | 61.65\% | 61.52\% | 61.06\% | 60.23\% | 61.48\% |
| Interstate Power and Light Company | LNT | 49.68\% | 48.78\% | 5 | 48.09\% | , | 48.15\% | 049 |  |  |
| Wisconsin Power and Light Company | LNT | 52.39\% | 51.56\% | 51.45\% | 51.22\% | 52.38\% | 51.89\% | 51.78\% | 51.56\% | 51.78\% |
| Ameren Illinois Company | AEE | 54.40\% | 53.96\% | 53.50\% | 52.85\% | 55.18\% | 54.47\% | 53.06\% | 52.81\% | 53.78\% |
| Union Electric Company | AEE | 51.61\% | 51.14\% | 50.92\% | 51.27\% | 51.62\% | 50.56\% | 51.42\% | 50.51\% | 51.13\% |
| AEP Texas Central Company | AEP | NA | NA | NA | 46.01\% | 45.44\% | 45.01\% | 44.18\% | 43.63\% | 44.85\% |
| AEP Texas North Company | AEP | NA | NA | NA | 43.29\% | 43.17\% | 42.84\% | 42.64\% | 42.36\% | 42.86\% |
| Appalachian Power Company | atep | 48.30\% | 47.85\% | 48.17\% | 46.89\% | 46.68\% | 46.41\% | 47.20\% | 46.77\% | 47.28\% |
| Indiana Michigan Power Company | AEP | 46.65\% | 46.27\% | 49.54\% | 49.11\% | 49.03\% | 48.50\% | 48.26\% | 52.65\% | 48.75\% |
| Kentucky Power Company | AEP | 43.22\% | 43.30\% | 43.57\% | 43.45\% | 43.22\% | 43.50\% | 43.58\% | 43.26\% | 43.33\% |
| Kingsport Power Company | AEP | 45.88\% | 55.58\% | 48.98\% | 65.24\% | 65.24\% | 64.34\% | ${ }^{65.21 \%}$ | 59.70\% | 55.14\% |
| Ohio Power Company | AEP | 57.64\% | 56.72\% | 56.75\% | 56.51\% | 56.08\% | 54.87\% | 50.03\% | 50.09\% | 54.84\% |
| Public Service Company of Oklahoma | AEP | 48.85\% | 48.26\% | 48.20\% | 48.47\% | 48.52\% | 47.42\% | 46.80\% | 46.45\% | 47.87\% |
| Southwestern Electric Power Company | AEP | 48.66\% | 48.14\% | 48.33\% | 45.95\% | 46.12\% | 49.66\% | 49.51\% | 49.59\% | 48.24\% |
| Wheeling Power Company | AEP | 54.13\% | 54.10\% | 54.10\% | 54.12\% | 54.31\% | 54.08\% | 53.90\% | 53.73\% | 54.06\% |
| Black Hilis Colorado Electric Utility Company, LF | вкн | 54.96\% | 55.01\% | 53.08\% | 52.20\% | 51.85\% | 51.39\% | 51.06\% | 50.85\% | 52.55\% |
| Black Hills Power, Inc. | BKH | ${ }_{5}^{56.14 \%}$ | 53.26\% | 53.24\% | ${ }^{52.88 \%}$ | ${ }^{53.13 \%}$ | 53.13\% | ${ }_{5}^{53.27 \%}$ | ${ }^{553.35 \%}$ | 53.55\% |
| Cheyenne Light, Fuel and Power Company | BKH | 53.16\% | 53.27\% | 553.29\% | ${ }^{53.35 \%}$ | 55.22\% | 53.14\% | 55.36\% | 55.32\% | 53.26\% |
| Consumers Energy Company | CMS | 53.09\% | 52.81\% | 51.93\% | 51.07\% | 51.13\% | 52.14\% | 51.25\% | 50.46\% | 51.74\% |
| Virginia Electric and Power Company | DTE | 50.84\% | 50.92\% | 50.94\% | 52.83\% | 54.62\% | 53.48\% | 52.85\% | 53.03\% | 52.44\% |
| DTE Electric Company | dTE | 50.50\% | 50.63\% | 50.50\% | 50.50\% | 50.13\% | 49.35\% | 50.53\% | 50.39\% | 50.31\% |
| Duke Energy Carolinas, LL | DKK | 5.98\% | 53.49\% | 53.32\% | 52.81\% | 53.59\% | 53.84\% | 54.59\% | 58.07\% |  |
| Duke Energy Florida, LLC | DUK | 49.46\% | 47.74\% | 46.95\% | 50.83\% | 50.52\% | 53.43\% | 55.81\% | 55.28\% | 51.25\% |
| Duke Energy Indiana, LLC | DUK | 51.71\% | 51.89\% | 52.15\% | 51.59\% | 51.14\% | 49.35\% | 50.89\% | 50.27\% | 51.12\% |
| Duke Energy Kentucky, Inc. | DUK | 50.69\% | 55.74\% | 55.43\% | 54.74\% | 54.87\% | 54.14\% | 53.94\% | 56.11\% | 54.46\% |
| Duke Energy Ohio, Inc. | DUK | 65.79\% | 65.38\% | 65.36\% | 66.39\% | 65.96\% | 65.21\% | 69.15\% | 68.71\% | 66.49\% |
| Duke Energy Progress, LLC | DUK | 51.06\% | 53.51\% | 52.99\% | 51.78\% | 51.77\% | 53.15\% | 52.70\% | 52.40\% | 52.35\% |
| El Paso Electric Company | EE | 49.81\% | 48.01\% | 47.48\% | 47.73\% | 47.73\% | 46.22\% | 45.95\% | 49.86\% | 47.85\% |
| Hawaii Electric Light Company, Inc. | HE | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Hawaiian Electric Company, Inc. | HE | 58.11\% | 57.76\% | 57.71\% | 57.70\% | 58.00\% | 57.67\% | 57.51\% | 57.48\% | 57.74\% |
| Maui Electric Company, Limited Idaho Power Co. | ${ }_{\text {IDE }} \mathrm{HE}$ | - ${ }_{54}$ | ${ }_{\text {NA }}^{\text {NA } 48}$ | ${ }_{\text {53.22\% }}^{\text {NA }}$ | ${ }_{\text {53.15\% }}^{\text {NA }}$ | $\stackrel{\text { NA }}{53.15 \%}$ | NA ${ }_{\text {NA }}$ | - $\begin{gathered}\text { NA } \\ 50\end{gathered}$ |  | ${ }_{\text {Na }}^{\text {NA }}$ (184\% |
| Idaho Power Co. NorthWestern Corporation | NWE | 48.86\% | 48.61\% | 48.61\% | 48.13\% | 477.72\% | 47.66\% | 47.54\% | 47.31\% | 48.05\% |
| Oklahoma Gas and Electric Company | OGE | 53.05\% | 52.75\% | 53.46\% | 56.09\% | 56.23\% | 55.50\% | 55.17\% | 54.30\% | 54.57\% |
| Otter Tail Power Company | OTTR | 57.24\% | 55.31\% | 55.31\% | 55.06\% | 54.80\% | 54.15\% | 53.10\% | 52.75\% | 54.71\% |
| Arizona Public Service Company | PNW | 53.05\% | 53.32\% | 53.20\% | 54.59\% | 54.70\% | 53.13\% | 55.54\% | 55.50\% | 54.13\% |
| Public Service Company of New Mexico | PNM | 47.41\% | 46.71\% | 46.20\% | 45.84\% | 45.90\% | 44.71\% | 45.17\% | 45.14\% | 45.89\% |
| Texas-New Mexico Power Company | PNM |  | NA | NA | NA | NA | NA |  | NA | NA |
| Portland General Electric Company | POR | 50.17\% | 50.32\% | 50.28\% | 49.82\% | 49.72\% | 49.64\% | 50.89\% | 50.61\% | 50.18\% |
| Alabama Power Company | so | 46.20\% | 46.32\% | 46.07\% | 46.00\% | 46.31\% | 45.61\% | 45.51\% | 45.49\% | 45.94\% |
| Georgia Power Company | so | 49.78\% | 50.94\% | 49.77\% | 51.01\% | 51.08\% | 49.86\% | 49.87\% | 50.43\% | 50.34\% |
| Gulf Power Company | so | 54.97\% | 54.41\% | 55.63\% | 52.94\% | 50.68\% | 50.32\% | 48.03\% | 48.06\% | 51.88\% |
| Mississippi Power Company | so | 46.93\% | 46.37\% | 49.22\% | 49.34\% | 46.50\% | 46.23\% | 42.18\% | 47.77\% | 46.82\% |
| Wisconsin Electric Power Company | WEC | 55.69\% | 55.48\% | 55.30\% | 56.46\% | 56.99\% | 56.87\% | 56.67\% | 56.97\% | 56.30\% |
| Wisconsin Public Service Corporation | WEC | ${ }^{55.68 \%}$ | 55.21\% | 54.02\% | 55.78\% | 55.15\% | 54.61\% | ${ }^{55.65 \%}$ | 55.53\% | ${ }^{54.83 \%}$ |
| Northern States Power Company - MN Northern States Power Company - WI | XEL | 55.22\% |  | 52.22\% $55.66 \%$ | 52.31\% |  |  |  |  | $52.60 \%$ $54.94 \%$ |
| Northern States Power Company - W1 Public Sevice Company of Colorado |  | 55.57\% | $55.2 \%$ $54.88 \%$ | 55.66\% |  | 54.83\% | 54.5\%\% 55.93\% | 54.43\% |  | 54.94\%\% |
| Southwestern Public Service Company | XEL | 52.29\% | 54.61\% | 54.48\% | 53.93\% | 50.45\% | 54.30\% | 54.13\% | 53.83\% | 55.50\% |
| Mean |  | 52.48\% | 52.40\% | 52.37\% | 52.31\% | 52.18\% | 51.98\% | 51.93\% | 52.02\% | 52.07\% |


| Company | Ticker | $2017{ }^{3} 3$ | 2017P2 | 201701 | 201694 | 201623 | $2016{ }^{2}$ | ng-Term |  | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | 201601 |  |  |
| ALLETE, Inc. | ALE |  |  |  | 40.98\% |  | 40.92\% |  | 41.96\% | 40.48\% |
| Alliant Energy Corporation | LNT | 46.93\% | 47.75\% | 48.99\% | 48.21\% | 48.20\% | 47.61\% | 47.19\% | 47.57\% | 47.69\% |
| Ameren Corporation | AEE | 45.95\% | 46.39\% | 46.73\% | 46.88\% | 45.52\% | 46.37\% | 46.66\% | 47.26\% | 46.47\% |
| American Electric Power Company, Inc. | AEP | 50.84\% | 50.60\% | 50.29\% | 50.10\% | 50.19\% | 50.34\% | 50.87\% | 51.18\% | 50.55\% |
| Black Hills Corporation | вкн | 45.25\% | 46.16\% | 46.80\% | 47.19\% | 47.27\% | 47.45\% | 47.43\% | 47.49\% | 46.88\% |
| CMS Energy Corporat | cms | 46.60\% | 46.88\% | 47.75\% | 48.619 | 48.54\% |  |  |  |  |
| Dominion Resources, |  | 49.16\% | 49.08\% | 49.06\% | 47.17\% | 45.38\% | 46.52\% | 47.15\% | 46.97\% | 47.56\% |
| DTE Energy Company | DTE | 49.50\% | 49.37\% | 49.50\% | 49.50\% | 49.87\% | 50.65\% | 49.47\% | 49.61\% | 49.69\% |
| Duke Energy Corporation | DUK | 46.22\% | 45.38\% | 45.63\% | 45.34\% | 45.42\% | 45.15\% | 43.82\% | 43.19\% | 45.02\% |
| El Paso Electric Company | EE | 50.19\% | 51.99\% | 52.52\% | 52.27\% | 52.27\% | 53.78\% | 54.05\% | 50.14\% | 52.15\% |
| Hawaiian Electric Industries, Inc. | HE | 41.89\% | 42.24\% | 42.29\% | 42.30\% | 42.00\% | 42.33\% | 42.49\% | 42.52\% | 42.26\% |
| IDACORP, Inc. | IDA | 45.78\% | 46.52\% | 46.78\% | 46.85\% | 46.85\% | 47.54\% | 49.30\% | 47.66\% | 47.16\% |
| NorthWestern Corpora | NWE | 51.14\% | 51.39\% | 51.39\% | 51.87\% | 52.28\% | 52.34\% | 52.46\% | 52.69\% | 51.95\% |
| OGE Energy Corp | OGE | 46.95\% | 47.25\% | 46.54\% | 43.91\% | 43.77\% | 44.50\% | 44.83\% | 45.70\% | 45.43\% |
| Otter Tail Corporation | OTTR | 42.76\% | 44.69\% | 44.69\% | 44.94\% | 45.20\% | 45.85\% | 46.90\% | 47.25\% | 45.29\% |
| Pinnacle West Capital Corporation | PNW | 46.95\% | 46.68\% | 46.80\% | 45.41\% | 45.30\% | 46.87\% | 44.46\% | 44.50\% | 45.87\% |
| PNM Resources, inc. | PNM | 52.23\% | 52.91\% | 53.42\% | 53.78\% | 53.73\% | 54.90\% | 54.44\% | 54.46\% | 53.73\% |
| Portland General Electric Company | POR | 49.83\% | 49.68\% | 49.72\% | 50.18\% | 50.28\% | 50.36\% | 49.11\% | 49.39\% | 49.82\% |
| Southern Company | so | 49.14\% | 49.49\% | 47.56\% | 47.78\% | 49.01\% | 49.62\% | 51.28\% | 49.70\% | 49.20\% |
| WEC Energy Group, Inc. | WEC | 44.07\% | 44.40\% | 45.99\% | 43.63\% | 43.69\% | 44.02\% | 44.10\% | 44.51\% | 44.19\% |
| Xcel Energy Inc. | XEL | 46.07\% | 45.63\% | 45.06\% | 45.63\% | 46.55\% | 45.83\% | 45.32\% | 45.57\% | 45.71\% |
|  |  | 46.97\% |  | 47.40\% | 47.26\% | 47.24\% |  | 47.66 |  | 47.3 |


| Operating Company Capital Structure |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Operating Company | Parent |  |  |  |  |  |  |  | $\begin{aligned} & \text { ong Te } \\ & 2015 \end{aligned}$ |  |
| ALLETE (Minnesota Power) | ALE | 40.27\% | 40.84\% | 41.29\% | 43.08\% | 43.10\% | 43.37\% | 43.40\% | 44.14\% | 42.43\% |
| Superior Water, Light and Power Company | ALE | 37.67\% | 37.92\% | 38.15\% | 38.88\% | 38.35\% | 38.48\% | 38.94\% | 39.77\% | 38.52\% |
| Interstate Power and Light Company | LNT | 46.24\% | 47.07\% | 47.64\% | 47.64\% | 48.77\% | 47.12\% | 46.16\% | 46.71\% | 47.17\% |
| Wisconsin Power and Light Company | LNT | 47.61\% | 48.44\% | 48.55\% | 48.78\% | 47.62\% | 48.11\% | 48.22\% | 48.44\% | 48.22\% |
| Ameren Illinois Company | AEE | 44.54\% | 44.97\% | 45.41\% | 46.05\% | 43.67\% | 44.36\% | 45.80\% | 46.04\% | 45.11\% |
| Union Electric Company | AEE | 47.36\% | 47.81\% | 48.04\% | 47.70\% | 47.36\% | 48.39\% | 47.51\% | 48.47\% | 47.83\% |
| AEP Texas Central Company | AEP | NA | NA | NA | 3.99\% | 54.56\% | 54.99\% | 55.82\% | 56.37\% | 55.15\% |
| AEP Texas North Company | AEP | NA | NA | NA | 56.71\% | 56.83\% | 57.16\% | 57.36\% | 57.64\% | 57.14\% |
| Appalachian Power Company | AEP | 51.70\% | 52.15\% | 51.83\% | 53.11\% | 53.32\% | 53.59\% | 52.80\% | 53.23\% | 52.72\% |
| Indiana Michigan Power Company | AEP | 53.35\% | 53.73\% | 50.46\% | 50.89\% | 50.97\% | 51.50\% | 51.74\% | 47.35\% | 51.25\% |
| Kentucky Power Company | AEP | 56.78\% | 56.70\% | 56.43\% | 56.55\% | 56.48\% | 56.50\% | 56.42\% | 56.74\% | 56.57\% |
| Kingsport Power Company | AEP | 54.12\% | 49.42\% | 51.02\% | 34.76\% | 34.76\% | 35.66\% | 34.79\% | 40.30\% | 41.86\% |
| Ohio Power Company | AEP | 42.36\% | 43.28\% | 43.25\% | 43.49\% | 43.92\% | 45.13\% | 49.97\% | 49.91\% | 45.16\% |
| Public Service Company of Oklaho | AEP | 51.15\% | 51.74\% | 51.80\% | 51.53\% | 51.48\% | 52.58\% | 53.20\% | 53.55\% | 52.13\% |
| Southwestern Electric Power Company | AEP | 51.34\% | 51.86\% | 51.67\% | 54.05\% | 53.88\% | 50.34\% | 50.49\% | 50.41\% | 51.76\% |
| Wheeling Power Company | AEP | 45.87\% | 45.90\% | 45.90\% | 45.88\% | 45.69\% | 45.92\% | 46.10\% | 46.27\% | 45.94\% |
| Black Hills Colorado Electric Utility Company, LF | BKH | 45.04\% | 44.99\% | 46.92\% | 47.80\% | 48.15\% | 48.61\% | 48.94\% | 49.15\% | 47.45\% |
| Black Hills Power, Inc. | вкн | 43.86\% | 46.74\% | 46.76\% | 47.12\% | 46.87\% | 46.87\% | 46.73\% | 46.65\% | 46.45\% |
| Cheyenne Light, Fuel and Power Company | ${ }^{\text {BKH }}$ | 46.84\% | 46.73\% | 46.71\% | 46.65\% | 46.78\% | 46.86\% | 46.64\% | 46.68\% | 46.74\% |
| Consumers Energy Company | CMS | 46.60\% | 46.88\% | 47.75\% | 48.61\% | 48.54\% | 47.53\% | 48.41\% | 49.20\% | 47.94\% |
| Virginia Electric and Power Co | D | 49.16\% | 49.08\% | 49.06\% | 47.17\% | 45.38\% | 46.52\% | 47.15\% | 46.97\% | 47.56\% |
| DTE Electric Company | DTE | 49.50\% | 49.37\% | 49.50\% | 49.50\% | 49.87\% | 50.65\% | 49.47\% | 49.61\% | 49.69\% |
| Duke Energy Carolinas, LLC | DUK | ${ }^{46.02 \%}$ | 46.51\% | 46.68\% | 47.19\% | 46.41\% | 46.16\% | 45.41\% | 41.93\% | 45.79\% |
| Duke Energy Florida, LLC |  |  |  | 53.05\% | 49.17\% | 49.48\% | 46.57\% |  | 44.72\% | 48.75\% |
| Duke Energy Indiana, LLC | DUK | 48.29\% | 48.11\% | 47.85\% | 48.41\% | 48.86\% | 50.65\% | 49.11\% | 49.73\% | 48.88\% |
| Duke Energy Kentucky, Inc. | DUK | 49.31\% | 44.26\% | 44.57\% | 45.26\% | 45.13\% | 45.86\% | 46.06\% | 43.89\% | 45.54\% |
| Duke Energy Ohio, Inc. | DUK | 34.21\% | $34.62 \%$ | 34.64\% | 33.61\% | 34.04\% | 34.79\% | 30.85\% | 31.29\% | 33.51\% |
| Duke Energy Progress, LLC | DUK | 48.94\% | 46.49\% | 47.01\% | 48.42\% | 48.63\% | 46.85\% | 47.30\% | 47.60\% | 47.65\% |
| El Paso Electric Company | EE | 50.19\% | 51.99\% | 52.52\% | 52.27\% | 52.27\% | 53.78\% | 54.05\% | 50.14\% | 52.15\% |
| Hawaii Electric Light Company, Inc. | HE | N0 | Na | , | NA |  |  |  |  |  |
| Hawaian Electric Company, Inc. | HE | 41.89\% | 42.24\% | 42.29\% | 42.30\% | 42.00\% | 42.33\% | 42.49\% | 42.52\% | 42.26\% |
| Maui Electric Company, Limited | HE | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Idaho Power Co. | IDA | 45.78\% | 46.52\% | 46.78\% | 46.85\% | 46.85\% | 47.54\% | 49.30\% | 47.66\% | 47.16\% |
| NorthWestern Corporation | NWE | 51.14\% | 51.39\% | 51.39\% | 51.87\% | 52.28\% | 52.34\% | 52.46\% | 52.69\% | 51.95\% |
| Oklahoma Gas and Electric Comp | OGE | 46.95\% | 47.25\% | 46.54\% | 43.91\% | 43.77\% | 44.50\% | 44.83\% | 45.70\% | 45.43\% |
| Otter Tail Power Company | OTTR | 42.76\% | 44.69\% | 44.69\% | 44.94\% | 45.20\% | 45.85\% | 46.90\% | 47.25\% | 45.29\% |
| Arizona Public Service Company | PNW | 46.95\% | 46.68\% | 46.80\% | 45.41\% | 45.30\% | 46.87\% | 44.46\% | 44.50\% | 45.87\% |
| Public Service Company of New Mexico | NM | 52.23\% | 52.91\% | 53.42\% | 53.78\% | 53.73\% | 54.90\% | 54.44\% | 54.46\% | 53.73\% |
| Texas-New Mexico Power Company | PNM | NA | NA | NA | NA | NA | NA | NA | NA |  |
| Portland General Electric Company | POR | 49.83\% | 49.68\% | 49.72\% | 50.18\% | 50.28\% | 50.36\% | 49.11\% | 49.39\% | 49.82\% |
| Alabama Power Company | so | 50.19\% | 51.71\% | 51.95\% | 51.93\% | 51.63\% | 52.30\% | 52.40\% | 52.34\% | 51.80\% |
| Georgia Power Company | so | 49.10\% | 47.88\% | 49.07\% | 47.78\% | 47.70\% | 48.91\% | 48.89\% | 48.30\% | 48.45\% |
| Gulf Power Company | so | 45.03\% | 45.59\% | 38.99\% | 41.32\% | 43.81\% | 44.11\% | 46.63\% | 46.61\% | 44.01\% |
| Mississippi Power Company |  | 52.25\% | 52.80\% | 50.22\% | 50.10\% | ${ }_{42}^{52.53 \%}$ | ${ }^{53.17 \% \%}$ | 57.22\% |  |  |
| Wisconsin Public Service Corporation | WEC | 44.32\% | 44.79\% | 45.98\% | 44.22\% |  | 45.39\% | 45.35\% |  | 45.17\% |
| Northerm States Power Company - MN | XEL | 47.78\% | 47.22\% | 47.38\% | 47.69\% | 47.92\% | 48.14\% | 46.32\% | 46.74\% | 47.40\% |
| Northern States Power Company - WI | XEL | 44.43\% | 44.78\% | 44.34\% | 45.07\% | 45.11\% | 45.43\% | 45.57\% | 45.73\% | 45.06\% |
| Public Service Company of Colorado | XEL | 44.36\% | 45.12\% | 43.00\% | 43.68\% | 43.63\% | 44.07\% | 43.51\% | 43.66\% | 43.88\% |
| Southwestern Public Sevice Company | XEL | 47.71\% | 45.39\% | 45.52\% | 46.07\% | 49.55\% | 45.70\% | 45.87\% | 46.17\% | 46.50\% |
| ean |  | 退 | . $35 \%$ | 7.26\% | 77.33\% | 47.45\% | 47.65 | 47.6 | 47.60 | 47.59\% |


[^0]:    1 Throughout my Direct Testimony, I interchangeably use the terms "ROE" and "Cost of Equity."

[^1]:    ${ }^{2}$ In the Matter of Kansas City Power \& Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2014-0370, Report and Order at 20 (Sept. 2, 2015).

[^2]:    3 In the Matter of Kansas City Power \& Light Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2016-0285, Report and Order at 22 (May 3, 2017).
    $4 \quad 2015 \mathrm{KCP} \& L$ Order at 22.

[^3]:    5 Ibid.
    6 Ibid., at 18-19; 2017 KCP\&L Order at 18.

[^4]:    7 S\&P Global Market Intelligence as of December 29, 2017.

[^5]:    8 The observed interest rate may be adjusted to reflect issuance or other directly observable costs.

[^6]:    9 In the Matter of $K C P \& L$ Greater Missouri Operations Company's Request for Authority to Implement a General Rate Increase for Electric Service, Case No. ER-2012-0175, Report and Order at 11 (Jan. 9, 2013) ("2013 GMO Order").
    102017 KCP\&L Order at 10-11.

[^7]:    112015 KCP\&L Order at 21. See State ex rel. Laclede Gas Co. v. Public Serv. Comm 'n, 535 S.W.2d 561, 570 571 (Mo. App. 1976), quoting Mountain States Tel. \& Tel. Co. v. Public Util. Comm'n, 345 F. Supp. 80,85 (D. Colo. 1972).
    12 State ex rel. Public Counsel v. Public Serv. Comm'n, 274 S.W.3d 569, 574 (Mo. App. W.D. 2009).
    13 State ex rel. Mo. Gas Energy v. Public Serv. Comm'n, 186 S.W.3d 376, 383 (Mo. App. W.D. 2005).

[^8]:    17 Dominion Energy, Inc. ("Dominion") announced its proposed acquisition of SCANA Corp. on January 3, 2018, subsequent to the period used in the various analyses discussed in more detail below (i.e., December 29, 2017). See Dominion Energy, Inc. Merger Press Release, January 3, 2018. As such, I have retained Dominion in the

[^9]:    19 See Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).
    $20 \quad$ Charles F. Phillips, Jr., The Economics of Regulation at 285 (Rev. ed. 1969).
    ${ }^{21}$ See, e.g., Christofi, Christofi, Lori and Moliver, Evaluating Common Stocks Using Value Line's Projected Cash Flows and Implied Growth Rate, Journal of Investing (Spring 1999); Harris and Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management, (Summer 1992); and Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).

[^10]:    22 Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).
    23 Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).
    ${ }_{24}$ Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, The Risk Premium Approach to Measuring a Utility's Cost of Equity, Financial Management (Spring 1985).
    25 See Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).

[^11]:    26 See Schedule RBH-1.
    2015 KCP\&L Order at 19. See Schedule RBH-1.

[^12]:    30 See Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook, at 48-52.

[^13]:    32 See Bureau of Economic Analysis, "Current-Dollar and 'Real' Gross Domestic Product," (Dec. 21, 2017 update).
    33 See Board of Governors of the Federal Reserve System, "Table H. 15 Selected Interest Rates."
    34 Blue Chip Financial Forecasts at 14 (December 1, 2017).
    Ibid.

[^14]:    39 Tables V.B. 1 and V.B. 2 of the 2017 ANNUAL REPORT OF THE BOARD OF TRUSTEES OF THE FEDERAL OLD-AGE AND SURVIVORS INSURANCE AND FEDERAL DISABILITY INSURANCE TRUST FUNDS includes "Low-cost" and "High-cost" scenario assumptions of 2.90 percent and 1.50 percent for the GDP Price Index, and Real GDP Growth 2.70 percent and 1.30 percent, respectively, over the period 2026 through 2090. When combined, those projections indicate nominal GDP growth of 5.68 percent and 2.82 percent.
    40 Energy Information Administration, 2017 Annual Energy Outlook, Table 20. EIA forecasts the GDP Price Index, and Real GDP growth to be 2.00 percent and 2.10 percent, respectively, for the High Oil Price and Low Oil Price scenarios and 3.30 percent and 1.60 percent, respectively, for the Low Economic Growth scenario. When combined, those assumptions indicate nominal GDP growth rates of 4.14 percent and 4.95 percent.

[^15]:    41 As stated in the Value Line Investment Survey company reports as "All Div'ds to Net Prof", as of December 29, 2017.
    42 Bloomberg Professional, as of December 29, 2017.
    43 See Schedule RBH-2.
    ${ }^{44}$ Defined as the 30-day average of the proxy group P/E ratio, calculated as an Index.
    45 See Schedule RBH-2.

[^16]:    47 See Schedule RBH-3.

[^17]:    52 See Schedule RBH-6.
    ${ }^{53}$ See Schedule RBH-6.

[^18]:    54
    2015 KCP\&L Order at 19.

[^19]:    57 Regulatory Research Associates, Construction Work in Progress: Getting Acquainted with an Old Issue at 2 (Apr. 22, 2013); Regulatory Research Associates, Missouri Regulatory Review, October 6, 2016, at 3.
    58 Regulatory Research Associates, Missouri Regulatory Review at 2 (Dec. 19, 2017).

[^20]:    59 Regulatory Research Associates, Alternative Regulation/Incentive Plans, A State-by-State Review at 1 (Nov. 2013).
    ${ }^{60}$ Please note that, based on the screening criterion regarding mergers or other significant transactions, Westar was excluded from the proxy group provided in Table 1.
    ${ }^{61}$ S\&P Global Market Intelligence, KCP\&L electric utility net generation.

[^21]:    62 See Amended Updated Staff Report on The Cost of Compliance with Federal Environmental Regulations, Case No. EW-2012-0065 (Apr. 3, 2014) at 23. The report includes cost estimates for Kansas City Power \& Light Company, KCP\&L Greater Missouri Operations Co., Ameren Missouri, and Empire District Electric Company.
    63 S\&P Research, The Clean Power Plan Will Spur Further Coal Plant Closings, But How Will U.S. Utilities Recover The Costs? (September 2, 2014).
    64 Ibid.

[^22]:    ${ }^{65}$ See Kansas City Power \& Light Company Release, "KCP\&L Furthers Sustainability Commitment by Announcing Plans to Cease Burning Coal at Three Power Plants" (Jan. 20, 2016); Kansas City Power \& Light Company Release, "KCP\&L Continues Sustainability Commitment by Announcing Retirement of Six Units at Three Power Plants" (June 2, 2017).
    ${ }^{66}$ See Great Plains Energy Inc., SEC Form 10-K for year-end December 31, 2016 at 50.

[^23]:    ${ }^{67}$ Standard \& Poor's, U.S. Utilities' Capital Spending is Rising, and Cost-Recovery is Vital, RatingsDirect, May 14,2012 , at 6 .

[^24]:    x (revenue / assets) x (assets / equity). See, e.g., Eugene Brigham \& Michael Ehrhardt, Financial Management:

[^25]:    Theory and Practice at $140-41$ ( $12^{\text {th }}$ ed., 2008).

[^26]:    ${ }^{69}$ See Federal Reserve Press Release, December 16, 2015.

[^27]:    ${ }^{70}$ See Federal Reserve Press Release, June 19, 2013.
    71 Federal Reserve Bank of New York, Domestic Open Market Operations During 2012, April 2013, page 29.
    72 Source: Federal Reserve Board Schedule H.4.1. "Securities held outright" include U.S. Treasury securities, Federal agency debt securities, and mortgage-backed securities

[^28]:    73 Source: Federal Reserve Board Schedule H.4.1; Bureau of Economic Analysis.

[^29]:    74 Federal Reserve Board Schedule H.15. 6-month and 1-year Treasury yields increased by 117 basis points and 128 basis points, respectively, July 8, 2016 to December 29, 2017.
    75 Sources: Federal Reserve Board Schedule H.15.; Blue Chip Financial Forecasts, Vol. 36, No. 12 at p. 2 (Dec. 1, 2017). 3 -year, 7 -year and 20 -year projected Treasury yields interpolated.

    76 Federal Reserve Press Release, (Sept. 20, 2017).

[^30]:    81 Source: Federal Reserve Schedule H. 15.

