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MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2018-0146

DIRECT TESTIMONY

OF

ROBERT B. HEVERT

ON BEHALF OF

KCP&L GREATER MISSOURI OPERATIONS COMPANY

Kansas City, Missouri January 2018

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

GLOSSARY OF FREQUENTLY USED TERMS

TERM	DESCRIPTION
Return on Equity ("ROE")	The return required by investors to invest in equity
	securities. The terms "Return on Equity" and "Cost
	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
	for taking on additional increments of risk. Risk
	Premium-based approaches are used in addition to the
	DCF and CAPM to estimate the Cost of Equity.
Terminal Growth	The expected rate of growth in the final, or terminal,
	stage of the Multi-Stage DCF model.
Treasury Inflation Protected Securities	Treasury securities that are indexed to inflation. The
("TIPS")	principal value of TIPS increase with inflation and
	decrease with deflation, as measured by the
	Consumer Price Index.
Treasury Yield	The return on Treasury securities; the yield on long-
	term Treasury bonds is considered to be a measure of
	the Risk-Free Rate.

DIRECT TESTIMONY

OF

ROBERT B. HEVERT

Case No. ER-2018-0146

1		I. INTRODUCTION AND SUMMARY OF RECOMMENDATIONS
2	Q:	Please state your name and business address.
3	A:	My name is Robert B. Hevert and my business address is ScottMadden, Inc., 1900 West
4		Park Drive, Suite 250, Westborough, MA 01581.
5	Q:	On whose behalf are you submitting this testimony?
6	A:	I am submitting this direct testimony ("Direct Testimony") before the Missouri Public
7		Service Commission ("Commission") on behalf of KCP&L Greater Missouri Operations
8		Company ("GMO" or the "Company").
9	Q:	Please describe your educational background.
10	A:	I hold a Bachelor's degree in Business and Economics from the University of Delaware,
11		and an MBA with a concentration in Finance from the University of Massachusetts. I
12		also hold the Chartered Financial Analyst designation.
13	Q:	Please describe your experience in the energy and utility industries.
14	A:	I have worked in regulated industries for over thirty years, having served as an executive
15		and manager with consulting firms, a financial officer of a publicly-traded natural gas
16		utility (at the time, Bay State Gas Company), and an analyst at a telecommunications
17		utility. In my role as a consultant, I have advised numerous energy and utility clients on
18		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.

8

II. PURPOSE AND OVERVIEW OF TESTIMONY

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

- A: On behalf of GMO, 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.
- 15 Q: What are your conclusions regarding the appropriate Cost of Capital for the16 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 54.40 percent common equity and 45.60 percent long-term debt, I conclude that it is consistent with those in place at

¹ Throughout my Direct Testimony, I interchangeably use the terms "ROE" and "Cost of Equity."

2

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

3 As to the Company's Cost of Equity, my analyses indicate that an ROE in the 4 range of 9.75 percent to 10.50 percent represents the range of equity investors' required 5 return for investment in vertically integrated electric utilities similar to the Company in 6 today's capital markets. I note that the Cost of Equity, which is the return required by 7 equity investors to assume the risks of ownership, is a market-based concept. As 8 discussed further in my testimony, as opposed to the earned return on common equity, 9 which is an accounting construct that can be observed in historical data, the Cost of 10 Equity is unobservable and must be estimated based on observable capital market data. 11 As a consequence, there may be differences of opinion among analysts as to the data, 12 assumptions and models used in the estimation process.

13 Further, I am aware that the Commission's 2015 Report and Order in Case No. 14 ER-2014-0370 ("2015 KCP&L Order") discussed the importance of recommendations 15 that rely on verifiable and independent market data, and accepted market-based rate of 16 return models.² As discussed throughout my Direct Testimony, the analyses that underlie 17 my recommended range consider the Commission's findings, and reflect the types of 18 analyses and data discussed in the 2015 KCP&L Order. Based on the those analyses and 19 data, and in light of that order, it is my view that the Company's ROE is within the range 20 of 9.75 percent to 10.50 percent, and represents a reasonable, but conservative range of 21 the Company's Cost of Equity.

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).

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

8 Q: Has Kansas City Power & Light Company ("KCP&L") or GMO filed a rate case 9 since the 2015 KCP&L Order?

A: Yes. In its 2017 Report and Order in Case No. ER-2016-0285 ("2017 KCP&L Order"),
the Commission affirmed the KCP&L'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 off-setting effect.³
GMO filed a rate case in Case No. ER-2016-0156, which was settled.

15 Q: Please discuss the 2015 KCP&L Order as it relates to your recommended ROE for 16 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

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).

²⁰¹⁵ KCP&L Order at 22.

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
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
KCP&L 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.

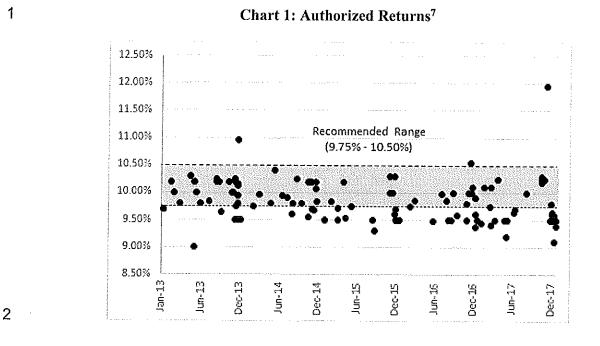
8

Q: How does your recommendation compare to recently authorized returns?

9 A: In both the 2015 and 2017 KCP&L Orders, the Commission noted that it is appropriate to
10 look to authorized ROEs in other jurisdictions to evaluate the reasonableness of ROE
11 recommendations.⁶ As shown in Chart 1, below, my recommendation is highly
12 consistent with recently authorized ROEs for vertically integrated electric utilities.

⁵ Ibid.

⁶ *Ibid.* at 18-19; 2017 KCP&L Order at 18.



3 Q: Please provide a brief overview of the analyses that led to your ROE 4 recommendation.

5 A: Because all financial models are subject to various assumptions and constraints, equity 6 analysts and investors tend to use multiple methods to develop their return requirements. 7 I therefore relied on three widely-accepted approaches to develop my ROE 8 recommendation: (1) the Discounted Cash Flow ("DCF") model, including the Constant 9 Growth and Multi-Stage forms; (2) the Capital Asset Pricing Model ("CAPM"); and (3) 10 the Bond Yield Plus Risk Premium approach. As discussed in Sections V, VI and VII, I 11 considered the results of those methods in the context of both Company-specific, and 12 general capital market factors. Based on those analyses, I conclude that a range of 9.75 13 percent to 10.50 percent represents reasonable estimates of the Company's Cost of 14 Equity.

⁷ S&P Global Market Intelligence as of December 29, 2017.

1	Q:	How is the remainder of your Direct Testimony organized?
2	A:	The remainder of my Direct Testimony is organized as follows:
3		Section III - Provides a summary of issues regarding Cost of Equity estimation in
4		regulatory proceedings and discusses the regulatory guidelines pertinent to the
5		development of the cost of capital;
6		Section IV – Explains my selection of the proxy group used to develop my analytical
7		results;
8		Section $V - Explains$ my analyses and the analytical bases for my ROE recommendation;
9		Section VI – Provides a discussion of specific business risks and other considerations that
10		have a direct bearing on the Company's Cost of Equity;
11		Section VII - Highlights the current capital market conditions and their effect on the
12		Company's Cost of Equity;
13		Section VIII – Analyzes the Company's embedded Cost of Debt;
14		Section IX – Provides my analyses of the Company's capital structure and presents the
15		overall rate of return;
16		Section X – Summarizes my conclusions and recommendations.
17		
	III.	SUMMARY OF ISSUES SURROUNDING COST OF EQUITY ESTIMATION IN
		REGULATORY PROCEEDINGS
18	Q:	Before addressing the specific aspects of this proceeding, please provide an overview
19		of the issues surrounding the Cost of Equity in regulatory proceedings generally.
20	A:	In very general terms, the Cost of Equity is the return that investors require to make an
21		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."

6 The Cost of Capital (including the costs of both debt and equity) is based on the 7 economic principle of "opportunity costs." Investing in any asset, whether debt or equity 8 securities, implies a forgone opportunity to invest in alternative assets. For any 9 investment to be sensible, its expected return must be at least equal to the return expected 10 on alternative, comparable investment opportunities. Because investments with like risks 11 should offer similar returns, the opportunity cost of an investment should equal the return 12 available on an investment of comparable risk.

13 Although both debt and equity have required costs, they differ in certain 14 fundamental ways. Most noticeably, the Cost of Debt is contractually defined and can be 15 directly observed as the interest rate or yield on debt securities.⁸ The Cost of Equity, on 16 the other hand, is neither directly observable nor a contractual obligation. Rather, equity 17 investors have a claim on cash flows only after debt holders are paid. The uncertainty (or 18 risk) associated with those residual cash flows determines the Cost of Equity. Because 19 equity investors bear the "residual risk," they take greater risks and require higher returns 20 than debt holders. In that basic sense, equity and debt investors differ: They invest in different securities, face different risks, and require different returns. 21

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

8

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.

8 In the end, the estimated Cost of Equity should reflect the return that investors 9 require in light of the subject company's risks, and the returns available on comparable 10 investments. A given utility stock may require a higher return based on the risks to 11 which it is exposed relative to other utilities. That is, simply because utilities are viewed 12 as a "sector," that does not mean that all utilities require the same return. The assessment 13 of relative risk, and its effect on the Cost of Equity necessarily requires the application of 14 reasoned, experienced judgment applied to a variety of data, much of which is qualitative 15 in nature.

16 Q: Please now provide a brief summary of the regulatory guidelines established for the 17 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)

⁸ The observed interest rate may be adjusted to reflect issuance or other directly observable costs.

1		comparable to returns investors expect to earn on other investments of similar risk; (2)
2		sufficient to assure confidence in the company's financial integrity; and (3) adequate to
3		maintain and support the company's credit and to attract capital.
4	Q:	Does Missouri precedent provide similar guidance?
5	A:	Yes. In a prior order, the Commission cited the Hope and Bluefield decisions at some
6		length and acknowledged its authority and responsibility to set "just and reasonable" rates
7		for public utility service, stating that:
8 9 10 11 12 13 14 15 16		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
17		Based on those standards, the authorized ROE should provide the Company with the
18		opportunity to earn a fair and reasonable return, and should enable efficient access to
19		external capital under a variety of market conditions. ¹⁰
20		In addition, the Missouri Court of Appeals provided the following guidance,
21		citing a federal court's observation:
22 23 24		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'

In the Matter of KCP&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"). 2017 KCP&L Order at 10-11.

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*.

10 Q: Why is it important for a utility to be allowed the opportunity to earn a return 11 adequate to attract equity capital at reasonable terms?

12 A: A return that is adequate to attract capital at reasonable terms enables the utility to 13 provide service while maintaining its financial integrity. As discussed above, and in 14 keeping with the Hope and Bluefield standards, that return should be commensurate with 15 the returns expected elsewhere in the market for investments of equivalent risk. The 16 consequence of the Commission's order in this case, therefore, should be to provide 17 GMO with the opportunity to earn a return on equity that is: (1) adequate to attract capital 18 at reasonable terms; (2) sufficient to ensure its financial integrity; and (3) commensurate 19 with returns on investments in enterprises having corresponding risks. To the extent 20 GMO is provided a reasonable opportunity to earn its market-based Cost of Equity. 21 neither customers nor shareholders should be disadvantaged. In fact, a return that is

¹¹ 2015 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).

2

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

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

4 A: The Cost of Equity is estimated by the use of various financial models. By their very 5 nature, those models produce a range of results from which the ROE is estimated. Both 6 practitioners and academics, however, recognize that financial models simply are tools to 7 be used in the ROE estimation process, and that strict adherence to any single approach 8 or to the specific results of any single approach can lead to flawed or misleading 9 conclusions. That position is consistent with the Hope and Bluefield principle that it is 10 the analytical result, as opposed to the methodology, that is controlling in arriving at ROE 11 determinations. Thus, a reasonable ROE estimate appropriately considers alternative 12 methodologies and the reasonableness of their individual and collective results in the 13 context of observable, relevant market information.

IV. PROXY GROUP SELECTION

14 Q: Why is it necessary to select a group of proxy companies to determine the Cost of 15 Equity for the Company?

A: Since the ROE is a market-based concept, and GMO 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.

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

3 A: No. For example, the Constant Growth DCF approach defines the Cost of Equity as the 4 sum of the expected dividend yield and projected long-term growth. Despite the care 5 taken to ensure risk comparability, market expectations with respect to future risks and 6 growth opportunities will vary from company to company. Therefore, even within a 7 group of similarly-situated companies, it is common for analytical results to reflect a 8 seemingly wide range. Consequently, the issue is how to estimate the Cost of Equity 9 from within that range. Such a determination necessarily must consider a wide range of 10 both quantitative and qualitative information.

- 11 Q: Please provide a summary profile of GMO.
- A: GMO, a wholly owned subsidiary of Great Plains Energy Incorporated ("GPE"), provides
 electric service to approximately 321,000 retail customers in Missouri.¹⁴ GMO's current
 long-term issuer credit rating from Standard & Poor's ("S&P") is BBB+ (outlook:
 Positive) and Baa2 (outlook: Stable) from Moody's Investors Service ("Moody's").¹⁵
- 16 Q: How did you select the companies included in your proxy group?
- 17 A: I began with the universe of companies that Value Line classifies as Electric Utilities, and
 18 applied the following screening criteria:
- 19

• 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 8, 10.

¹⁵ Source: S&P Global Market Intelligence as of December 29, 2017.

1		• I excluded companies that do not have investment grade senior unsecured bond
2		and/or corporate credit ratings from S&P
3		• I excluded companies that were not vertically-integrated, <i>i.e.</i> utilities that own and
4		operate regulated generation, transmission and distribution assets;
5		• I excluded any companies whose regulated operating income over the three most
6		recently reported fiscal years comprised less than 60.00 percent of the respective
7		totals for that company;
8		• I excluded any companies whose regulated electric operating income over the
9		three most recently reported fiscal years represented less than 60.00 percent of
10		total regulated operating income; and
11		• I eliminated companies that are currently known to be party to a merger, or other
12		significant transaction.
13	Q:	Did you include GPE in your proxy group?
14	A:	No. To avoid the circular logic that would otherwise occur, it has been my consistent
15		practice to exclude the subject company (or its parent) from the proxy group. In any
16		event, GPE would be excluded from my project group based on its announced merger
17		with Westar Energy, Inc. ¹⁶
18	Q:	What companies met those screening criteria?
4.0		

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

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	ВКН
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.	OGE
Otter Tail Corporation	OTTR
Pinnacle West Capital Corporation	PNW
PNM Resources, Inc.	PNM
Portland General Electric Company	POR
Southern Company	SO
WEC Energy Group, Inc.	WEC
Xcel Energy Inc.	XEL

Table 1: Proxy Group Screening Results

V. COST OF EQUITY ESTIMATION

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

A: Regulated utilities primarily use common stock and long-term debt to finance their
capital investments. The Weighted Average Cost of Capital weighs the cost of the
individual sources of capital by their respective book values. While the Cost of Debt can

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

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

3

Q: How is the required ROE determined?

4 A: I estimated the ROE using analyses based on market data to quantify a range of investor 5 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 6 7 discussed throughout my Direct Testimony, that estimation must be based on a 8 comprehensive review of relevant data and information, and does not necessarily lend 9 itself to a strict mathematical solution. Consequently, the key consideration in 10 determining the ROE is to ensure that the overall analysis reasonably reflects investors' 11 view of the financial markets in general, and the subject company (in the context of the 12 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.

20 21 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

proxy group, however I may exclude Dominion from any updated analyses that I may file in this proceeding because it would no longer meet my screening criteria.

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.

5 A. Constant Growth Discounted Cash Flow Model

6 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:

11
$$\mathbf{P} = \frac{\mathbf{D}_{\mathbf{k}}}{(\mathbf{1} \neq \mathbf{k})^{2}} + \frac{\mathbf{D}_{\mathbf{k}}}{(\mathbf{1} \neq \mathbf{k})^{2}} + \frac{\mathbf{D}_{\mathbf{k}}}{(\mathbf{1} \neq \mathbf{k})^{2}} \quad \text{Equation [1]}$$

where P represents the current stock price, D₁ ... D_∞ 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:

$$\mathbf{k} = \frac{\mathbf{p}_{\mathbf{c}} \left(\mathbf{1 + g}\right)}{\mathbf{p}} + \mathbf{g} \qquad \text{Equation [2]}$$

15

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, <u>Financial Management: Theory and Practice</u> at 341 (7th ed. 1994); Tom Copeland, Tim Koller and Jack Murrin, <u>Valuation: Measuring and Managing the Value of Companies</u> at 214 (3rd ed. 2000).

5

O:

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

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

6

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

7 A: The dividend yield is based on the proxy companies' current annualized dividend, and 8 average closing stock prices over the 30-, 90-, and 180-trading day periods as of 9 December 29, 2017.

10 Q: Why did you use three averaging periods to calculate an average stock price?

11 A: I did so to ensure that the model's results are not skewed by anomalous events that may 12 affect stock prices on any given trading day. At the same time, the averaging period 13 should be reasonably representative of expected capital market conditions over the long 14 term. In my view, using 30-, 90-, and 180-day averaging periods reasonably balances 15 those concerns.

16 Did you make any adjustments to the dividend yield to account for periodic growth Q: 17 in dividends?

18 Yes, I did. Since utility companies tend to increase their quarterly dividends at different A: 19 times throughout the year, it is reasonable to assume that dividend increases will be 20 evenly distributed over calendar quarters. Given that assumption, it is appropriate to 21 calculate the expected dividend yield by applying one-half of the long-term growth rate 22 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.

3 Q: Is it important to select appropriate measures of long-term growth in applying the 4 DCF model?

5 Yes. In its Constant Growth form, the DCF model (i.e., as presented in Equation [2] A: above) assumes a single growth estimate in perpetuity. Accordingly, in order to reduce 6 7 the long-term growth rate to a single measure, one must assume a fixed payout ratio, and 8 the same constant growth rate for earnings per share ("EPS"), dividends per share, and 9 book value per share. Since dividend growth can only be sustained by earnings growth, 10 the model should incorporate a variety of measures of long-term earnings growth. That 11 can be accomplished by averaging those measures of long-term growth that tend to be 12 least influenced by capital allocation decisions that companies may make in response to 13 near-term changes in the business environment. Because such decisions may directly 14 affect near-term dividend payout ratios, estimates of earnings growth are more indicative 15 of long-term investor expectations than are dividend growth estimates. For the purposes 16 of the Constant Growth DCF model, therefore, growth in EPS represents the appropriate 17 measure of long-term growth.

1	Q:	Please summarize the findings of academic research on the appropriate measure for
2		estimating equity returns using the DCF model.
3	A:	The relationship between various growth rates and stock valuation metrics has been the
4		subject of much academic research. ¹⁹ As noted over 40 years ago by Charles Phillips in
5		The Economics of Regulation:
6 7 8 9 10		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
11		Philips' conclusion continues to hold true. Subsequent academic research has
12		clearly and consistently indicated that measures of earnings and cash flow are strongly
13		related to returns, and that analysts' forecasts of growth are superior to other measures of
14		growth in predicting stock prices. ²¹ For example, Vander Weide and Carleton state that,
15		"[our] results are consistent with the hypothesis that investors use analysts' forecasts,
16		rather than historically oriented growth calculations, in making stock buy-and-sell
17		decisions."22 Other research specifically notes the importance of analysts' growth
18		estimates in determining the Cost of Equity, and in the valuation of equity securities. Dr.
19		Robert Harris noted that "a growing body of knowledge shows that analysts' earnings
20		forecast are indeed reflected in stock prices." Citing Cragg and Malkiel, Dr. Harris notes
21		that those authors "found that the evaluations of companies that analysts make are the

¹⁹ See Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).

 ²⁰ Charles F. Phillips, Jr., <u>The Economics of Regulation</u> at 285 (Rev. ed. 1969).
 ²¹ See e.g. Christofi Logi and Maliyar Evaluating Conversion Studies

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).

1		sorts of ones on which market valuation is based."23 Similarly, Brigham, Shome and
2		Vinson noted that "evidence in the current literature indicates that (i) analysts' forecasts
3		are superior to forecasts based solely on time series data; and (ii) investors do rely on
4		analysts' forecasts."24
5		To that point, the research of Carleton and Vander Weide demonstrates that
6		earnings growth projections have a statistically significant relationship to stock valuation
7		levels, while dividend growth rates do not. ²⁵ Those findings suggest that investors form
8		their investment decisions based on expectations of growth in earnings, not dividends.
9		Consequently, earnings growth, not dividend growth, is the appropriate estimate for the
10		purpose of the Constant Growth DCF model.
11	Q:	Please summarize your inputs to the Constant Growth DCF model.
11 12	Q: A:	Please summarize your inputs to the Constant Growth DCF model. I applied the DCF model to the proxy group of integrated electric utility companies using
12		I applied the DCF model to the proxy group of integrated electric utility companies using
12 13		I applied the DCF model to the proxy group of integrated electric utility companies using the following inputs for the price and dividend terms:
12 13 14		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
12 13 14 15		 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 P₀; and
12 13 14 15 16		 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 Po; and The annualized dividend per share as of December 29, 2017, for the term Do.
12 13 14 15 16 17		 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 Po; and The annualized dividend per share as of December 29, 2017, for the term Do. I then calculated my DCF results using each of the following growth terms:

²² Vander Weide and Carleton, *Investor Growth Expectations: Analysts vs. History*, <u>The Journal of Portfolio</u> <u>Management</u> (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).

• The Value Line long-term earnings growth estimates.²⁶

2	Q:	In the 2015 KCP&L Order, the Commission suggested that your Constant Growth
3		DCF results were based on unsustainably high growth rates. ²⁷ Do you believe the
4		EPS growth rates used in your Direct Testimony in this proceeding are too high?
5	A:	No, I do not. First, from a practical standpoint, the Constant Growth form of the DCF
6		model is subject to certain limiting assumptions, in particular, that expected growth rates
7		will continue in perpetuity. It is for this reason that I have also provided a Multi-Stage
8		DCF analysis below in Subsection V(B).
9		Second, as discussed in more detail below, the average long-term growth rate in
10		GDP has been 6.14 percent. In that regard, the median growth rate in my Constant
11		Growth DCF analysis of 5.17 percent is reasonable relative to historical measures. ²⁸ That
12		median growth rate is somewhat below the long-term expected GDP growth rate in my
13		Multi-Stage DCF analysis (see Schedule RBH-2).
14		Finally, as discussed above, consensus EPS growth rate forecasts are the
15		appropriate measure of expected growth because earnings growth enables both dividend
16		and book value growth, and investors rely on analysts' forecasts. As such, I believe the
17		growth rates used in my Constant Growth DCF model are reasonable, while being
18		consistent with academic research, and historical and expected measures of long-term
19		growth.

See Schedule RBH-1. 2015 KCP&L Order at 19. *See* Schedule RBH-1.

1 **Q**:

How did you calculate the DCF results?

2 A: For each proxy company, I calculated the mean, mean high, and mean low results. For 3 the mean result, I combined the average of the EPS growth rate estimates reported by 4 Value Line, Zacks, and First Call with the subject company's dividend yield for each 5 proxy company and then calculated the average result for those estimates. I calculated 6 the high DCF result by combining the maximum EPS growth rate estimate as reported by 7 Value Line, Zacks, and First Call with the subject company's dividend yield. The mean 8 high result simply is the average of those estimates. I used the same approach to 9 calculate the low DCF result, using instead the minimum of the Value Line, Zacks, and 10 First Call estimate for each proxy company, and calculating the average result for those 11 estimates.

12 **Q**: Do you have any concerns with the Constant Growth DCF model under current 13 market conditions?

14 Yes. The Constant Growth DCF model is predicated on a number of assumptions, one of A: 15 which is that the Price to Earnings ("P/E") ratio will remain constant, in perpetuity. 16 Because the utility sector P/E ratios have expanded to the point that they recently have 17 exceeded both their long-term average and the market P/E ratio, the Constant Growth 18 DCF model's results should be viewed with caution. As such, it is appropriate to 19 consider additional methods, such as the Multi-Stage DCF model, CAPM approach, and 20 the Bond Yield Plus Risk Premium model.

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

22 A: My Constant Growth DCF results are summarized in Table 2, below (see also Schedule 23 RBH-1),

	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%

Table 2: Constant Growth DCF Results²⁹

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.

9

10

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

²⁹ See Schedule RBH-1.

1		market environment (see Section VII). Because it is important to reflect the results of
2		different models, and the mean and mean low Constant Growth DCF results are far-
3		removed from recently authorized returns, I concluded that they should be given less
4		weight than other methods in determining the Company's ROE.
5		
6	В.	Multi-Stage DCF Model
7	Q:	What other forms of the DCF model have you used?
8	A:	To address certain limiting assumptions underlying the Constant Growth form of the
9		DCF model, I also considered the Multi-Stage (three-stage) DCF Model. The Multi-
10		Stage model, which is an extension of the Constant Growth form, enables the analyst to
11		specify growth rates over three distinct stages. As with the Constant Growth form of the
12		DCF model, the Multi-Stage form defines the Cost of Equity as the discount rate that sets
13		the current price equal to the discounted value of future cash flows. Unlike the Constant
14		Growth form, however, the Multi-Stage model must be solved in an iterative fashion.
15	Q:	Please generally describe the structure of your Multi-Stage DCF model.
16	A:	The Multi-Stage DCF model sets the subject company's stock price equal to the present
17		value of future cash flows received over three "stages" (e.g., Years 1 to 5; Years 5 to 10;
18		Year 11 and beyond). In the first two stages, "cash flows" are defined as projected
19		dividends. In the third stage, "cash flows" equal both dividends and the expected price at
20		which the stock will be sold at the end of the period (i.e., the "terminal price"). I
21		calculated the terminal price based on the Gordon model, ³⁰ which defines the price as the
22		expected dividend divided by the difference between the Cost of Equity (i.e., the discount

³⁰ See Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook at 48-52.

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).

5

Table 3:	Multi-Stage	DCF	Structure
	mann bruge	DOL	Du uctur c

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

6

7 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

5 The model also enables the analyst to assess the reasonableness of the inputs and 6 results by reference to certain market-based metrics. For example, the stock price 7 estimate can be divided by the expected earnings per share in the final year to calculate 8 an average P/E ratio. Similarly, the terminal P/E ratio can be divided by the terminal 9 growth rate to develop a Price to Earnings Growth ("PEG") ratio. To the extent that 10 either the projected P/E or PEG ratios are inconsistent with either historical or expected 11 levels, it may indicate incorrect or inconsistent assumptions within the balance of the 12 model.

13

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

14 A: I applied the Multi-Stage model to the proxy group described earlier in my Direct
15 Testimony. My assumptions with respect to the various model inputs are described in
16 Table 4 (below).

³¹ See Harris and Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management at 21 (Summer 1992).

	T 6.1 3			
Stage	Initial	First	Transition	Terminal
Stock Price	30-, 90-, and 180-day average stock price as of December 29, 2017			
Earnings Growth	2016 actual EPS escalated by Period 1 growth rate	EPS growth as average of (1) Value Line; (2) Zacks; and (3) First Call	Transition to Long-term GDP growth	Long-term GDP growth
Payout Ratio	Value Line company- specific	Value Line company- specific	Transition to long-term industry payout ratio	Long-term expected payout ratio
Terminal Value				Expected dividend in final year divided by solved Cost of Equity less long-term growth rate

Table 4: Multi-Stage DCF Model Assumptions

3 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.

10 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

³⁵ *Ibid*.

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).

30th percentile of observed growth rates in GDP. As such, I believe my long-term growth
 estimate is reasonable, if not conservative.

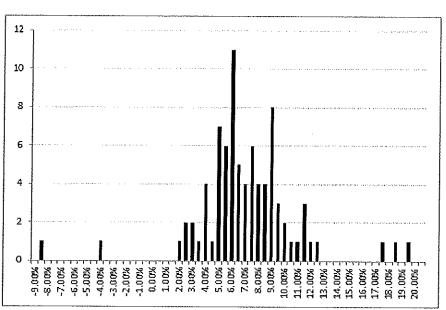


Chart 2: Average Annual GDP Growth Measured over Five-Year Periods³⁶

4

3

5 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.

1	Because they are perpetual, terminal growth rates that substantially deviate from
2	the long-term historical average, they should be viewed with considerable caution. As
3	Chart 2 demonstrates, average annual growth as low as 4.24 percent has been observed
4	very infrequently. In fact, average annual growth exceeded 4.24 percent in 71 of 83 five-
5	year periods, which represents the 15 th percentile of observed results. While the long-
6	term growth rate of 5.38 percent used in my Multi-Stage DCF model represents a
7	conservative measure of the GDP growth, the SSA and EIA forecasts are over 110 basis
8	points lower. As such, I believe my estimate of the long-term growth rate represents a
9	more reasonable measure of perpetual growth in the final stage of my Multi-Stage DCF
10	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.

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.

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 Line⁴¹ 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

6 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 P/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.

12

Table 5: Multi-Stage DCF Model Results⁴⁵

	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%

13

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

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

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.

1

8

C. Capital Asset Pricing Model

2 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:

$$\mathbf{k} = \mathbf{r}_{\mathbf{f}} \div \boldsymbol{\beta} \left(\mathbf{r}_{m} \cdot \mathbf{r}_{\mathbf{f}} \right) \quad \text{Equation [3]}$$

9 where:

10	k = the required market ROE for a security;
11	β = the Beta coefficient of that security;
12	r_{f} = the risk-free rate of return; and
13	r_m = the required return on the market as a whole.

14 In Equation [3], the term $(r_m - r_f)$ represents the Market Risk Premium.⁴⁶ 15 According to the theory underlying the CAPM, since unsystematic risk can be diversified 16 away by adding securities to investment portfolios, investors should be concerned only 17 with systematic or non-diversifiable risk. Non-diversifiable risk is measured by the Beta 18 coefficient, which is defined as:

19
$$\beta_j = \frac{\sigma_j}{\sigma_m} \times \rho_{j,m}$$
 Equation [4]

20 Where σ_j is the standard deviation of returns for company "*j*," σ_m is the standard 21 deviation of returns for the broad market (as measured, for example, by the S&P 500 22 Index), and $\rho_{j,m}$ is the correlation of returns in between company *j* and the broad market. 1 The Beta coefficient therefore represents both relative volatility (*i.e.*, the standard 2 deviation) of returns, and the correlation in returns between the subject company and the 3 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.

8 (

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

- 9 A: Since utility equity is a long duration investment, I used two different measures of the
 10 risk-free rate: (1) the current 30-day average yield on 30-year Treasury bonds (*i.e.*, 2.77
 11 percent); and (2) the projected 30-year Treasury yield (*i.e.*, 3.32 percent).
- 12 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.

17 Q: Please describe your *ex-ante*, or forward-looking, approach to estimating the 18 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 1 With respect to 2 Bloomberg-derived growth estimates, I calculated the expected dividend yield (using the 3 same one-half growth rate assumption described earlier), and combined that amount with 4 the projected earnings growth rate to arrive at the market capitalization weighted average 5 DCF result. I performed that calculation for each of the S&P 500 companies for which 6 Bloomberg provided consensus growth rates. I then subtracted the current 30-year 7 Treasury yield from that amount to arrive at the market DCF-derived *ex-ante* market risk 8 premium estimate. In the case of Value Line, I performed the same calculation, again 9 using all companies for which five-year earnings growth rates were available. The results 10 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.

18 Q: Have you undertaken any analyses to determine the reasonableness of the *ex-ante*19 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

⁴⁷ See Schedule RBH-3.

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.

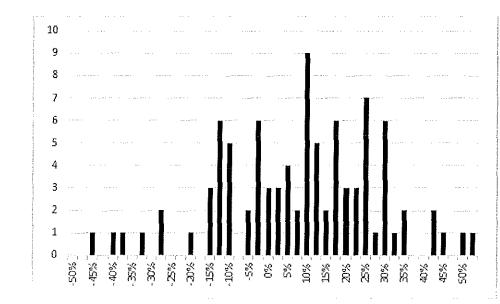


Chart 3: Frequency Distribution of MRP, 1926 -2016⁵⁰

6

5

7 Q: How did you apply your expected Market Risk Premium and risk-free rate 8 estimates?

9 A: I relied on the *ex-ante* Market Risk Premia discussed above, together with the current and

10 near-term projected 30-year Treasury yields as inputs to my CAPM analyses.

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

12 A: As shown in Schedule RBH-4, I considered the Beta coefficients reported by two

13 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.

(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.

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

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

7

Table 6: Summary of CAPM Results⁵¹

	Bloomberg Derived Market Risk Premium	Value Line Derived Market Risk Premium
Average Bloomberg Be	ta 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 Be	ta Coefficient	<u>F</u>
Current 30-Year Treasury (2.77%)	10.61%	11.24%
Near Term Projected 30-Year Treasury (3.32%)	11.15%	11.78%

8

9 D. Bond Yield Plus Risk Premium Approach

10 Q: Please generally describe the Bond Yield Plus Risk Premium approach.

A: 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

1 my discussion of the CAPM, since the equity risk premium is not directly observable, it 2 typically is estimated using a variety of approaches, some of which incorporate *ex-ante* or 3 forward-looking estimates of the Cost of Equity, and others that consider historical or *ex-*4 *post* estimates. An alternative approach is to use actual authorized returns for electric 5 utilities to estimate the Equity Risk Premium.

6

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

7 A: As suggested above, I first defined the Risk Premium as the difference between the 8 authorized ROE and the then-prevailing level of long-term (i.e., 30-year) Treasury yield. 9 I then gathered data for 1,541 electric utility rate proceedings between January 1980 and 10 December 29, 2017. In addition to the authorized ROE, I also calculated the average 11 period between the filing of the case and the date of the final order (the "lag period"). In 12 order to reflect the prevailing level of interest rates during the pendency of the 13 proceedings, I calculated the average 30-year Treasury yield over the average lag period 14 (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.

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

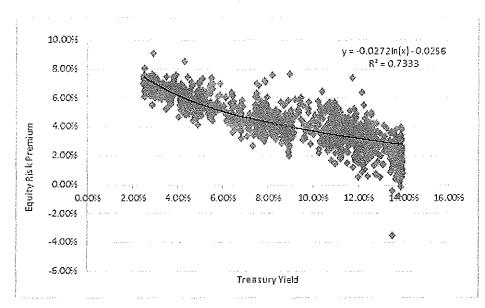
3 A: The basic method used was regression analysis, in which the observed Equity Risk 4 Premium is the dependent variable, and the average 30-year Treasury yield is the 5 independent variable. Relative to the long-term historical average, the analytical period 6 includes interest rates and authorized ROEs that are quite high during one period (i.e., the 7 1980s) and that are quite low during another (i.e., the 2008 Great Recession and the post-8 Lehman bankruptcy period). To account for that variability, I used the semi-log 9 regression, in which the Equity Risk Premium is expressed as a function of the natural 10 log of the 30-year Treasury yield:

11

$$RF = \alpha + \beta(LN(T_{B0}))$$
 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).





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 RBH-6).

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Table 7: Summary of Bond Yield Plus Risk Premium Results⁵³

	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%

⁵² See Schedule RBH-6.

⁵³ See Schedule RBH-6.

1 Has the Commission considered authorized ROEs in other jurisdictions in setting **Q:** 2 the authorized ROE for a subject company? 3 A: Yes, it has. For example, in the 2015 KCP&L Order the Commission determined that 4 recently authorized ROEs for utilities throughout the United States supported its 5 authorized ROE: 6 KCPL must compete with other utilities all over the country for the 7 Therefore, the industry authorized return on equity same capital. 8 provides a reasonableness test for the recommendations offered by the 9 return on equity experts.54 10 The Bond Yield Plus Risk Premium approach relies on the same data over an 11 approximately 36-year period, while also considering the inverse relationship between 12 Treasury yields and the Equity Risk Premium. That is, the Bond Yield Plus Risk 13 Premium approach provides additional information beyond a simple average of 14 authorized ROEs in that it accounts for different market environments and considers the 15 long-term relationship between the inputs to the analysis. 16 Have you provided an alternative Bond Yield Plus Risk Premium analysis to **Q**: 17 account for how market conditions may affect the inverse relationship between 18 interest rates and the Equity Risk Premium? 19 Yes. To address the prospect that the market conditions affect the relationship between A: 20 interest rates and the Equity Risk Premium, I first calculated the "credit spread," or the 21 difference between the Moody's A-Utility Bond yield and the 30-Year Treasury yield. 22 To reflect the risk of equity investments, I calculated the market volatility as measured by 23 the CBOE Volatility Index (the "VIX") since 1990, the first year for which data was 24 available. I then performed a regression analysis in which the Equity Risk Premium is

1	the dependent variable, and Treasury yields, credit spreads, and the VIX were the
2	explanatory variables. There were three principal findings from those analyses (see
3	Schedule RBH-7):
4	1. Credit spreads and the VIX do not negate the statistically significant inverse
5	relationship between Treasury yields and the Equity Risk Premium.
6	2. There is a high degree of correlation between credit spreads and the VIX,
7	indicating that the two move closely together. That is, the "relative risk" of the
8	two is not a meaningful factor.
9	3. Based on the current, and projected Treasury yields, the expected ROE falls in the
10	range of 9.59 percent to 9.70 percent. Those results are only slightly below my
11	recommended range, and are not far removed from the results of my Bond Yield
12	Plus Risk Premium analysis (see Schedule RBH-7).
13	Lastly, please note that neither the VIX nor credit spreads added significantly to
14	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 GMO?

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

⁵⁴ 2015 KCP&L Order at 19.

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 GMO's risk profile and therefore its
 Cost of Equity.

5 A. Regulatory Environment

6 Q: How does the regulatory environment in which a utility operates affect its access to 7 and cost of capital?

8 The regulatory environment can significantly affect both the access to and the cost of A: 9 capital in several ways. First, the proportion and cost of debt capital available to utility 10 companies are influenced by rating agencies' assessment of the regulatory environment. 11 In addition, it is important to recognize that regulatory decisions regarding the authorized 12 ROE and capital structure have direct consequences for the subject utility's internal cash 13 flow generation (sometimes referred to as "Funds from Operations" or "FFO"). Since 14 credit ratings are intended to reflect the ability to meet financial obligations as they come 15 due, the ability to generate the cash flows required to meet those obligations (and to 16 provide an additional amount for unexpected events) is of critical importance to debt 17 investors. Two of the most important metrics used to assess that ability are the ratios of 18 FFO to debt, and FFO to interest expense, both of which are directly affected by 19 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

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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.

- 5 Q: Have you compared GMO's regulatory risks to electric utilities in other
 6 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
 GMO's regulatory risk (and therefore its business risk and S&P Business Risk rating) to
 become more negative, further increasing GMO'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

⁵⁵ Regulatory Research Associates, as of December 29, 2018.

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.

4 In addition, rates for Missouri utilities are usually set based on an historical test 5 year, with limited "known-and-measurable" changes.⁵⁸ In contrast, other utilities, 6 including utilities in the proxy group, have the ability to recover rate base additions 7 through forecast test years or alternative rate plans. As Regulatory Research Associates 8 has noted, "[s]uch rate changes provide for improved cash flow and possibly earnings 9 through reduced regulatory lag."⁵⁹ As with the inability to include CWIP in its rate base, 10 because it is subject to the regulatory lag otherwise mitigated by forecast test years or 11 alternative rate plans, GMO's ability to generate earnings and cash flow is disadvantaged 12 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 GMO would
 leave its business and regulatory risk profile comparable to the risk profiles of other

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).

electric utilities, as it relates to fuel cost recovery. Therefore, no downward adjustment to
GMO's rate of return would be reasonable or appropriate as a result of continuation of an
FAC. Of course, discontinuation of an FAC for GMO would likely warrant an upward
adjustment to the Company's return due to what would be an incremental risk for GMO
in the area of fuel cost recovery relative to other electric utilities.

- 6 Q: Are you aware of GPE's July 10, 2017 announcement of its pending merger with
 7 Westar Energy, Inc. ("Westar")?
- A: Yes, I am. Because my analyses are focused on GMO 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
- 11 B. Generation Portfolio
- 12 Q: Please provide an overview of the Company's generation portfolio.
- A: GMO's operations are heavily dependent on coal-fired generation, which represented
 98.00 percent of the Company's electric utility 2016 net generation.⁶¹
- 15 Q: Please briefly describe the risks associated with GMO'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
- 19

or unplanned outage. In addition, federal environmental and safety regulations present a

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, GMO electric utility net generation.

1 substantial risk of requiring investors to commit new capital to comply with new 2 regulations or operation restrictions or possibly closure. In fact, a report by the Staff of 3 the Missouri Public Service Commission estimated that known Environmental Protection 4 Agency regulations, which primarily affect coal-fired generating plants in Missouri, 5 would cost state electric utilities and their customers between approximately \$2.23 billion 6 and \$2.47 billion from 2012 to 2022.62 That report further highlighted the level of 7 uncertainty regarding emerging environmental regulations and the potential consequences 8 of those emerging environmental regulations, including additional plant investments.

9 In a September 2014 report, S&P noted that power generators have addressed 10 carbon-reduction policies that target coal-fired generating plants by implementing three 11 strategies: adding "scrubbers" to coal-fired plants; switching to burning natural gas; or 12 retiring coal-fired plants outright.⁶³ To the extent these strategies increase costs for 13 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

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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.

1

Q:

What are your conclusions regarding the Company's generating portfolio?

2 A: The Company's generating portfolio consists of a significant percentage of coal power 3 plants that face certain inherent risks associated with capital intensive assets such as the 4 risk of an extended forced outage and changing market dynamics. In particular, the 5 Company and its investors are faced with the risk that new and impending federal 6 environmental and safety regulations will require it to expend additional capital or face 7 closure or curtailment of generating capacity. For example, GPE has announced that 8 KCP&L will cease burning coal at its Montrose plant in 2018, and that KCP&L Greater 9 Missouri Operations Company will similarly cease burning coal at its Sibley and Lake 10 Road plants by 2018 and 2019, respectively, citing the cost-effectiveness of complying 11 with environmental regulations.⁶⁵ Because investors consider these risks in establishing 12 their return requirements, the Commission likewise should consider the effect of the 13 additional risk associated with the Company's generating portfolio in determining 14 GMO's authorized ROE.

15 C.

Planned Capital Expenditures

16 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 GMO.⁶⁶ Because
 the Company will continue to make substantial investments in its utility operations, it will

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.

1		require efficient access to capital markets during the period that rates established in this
2		proceeding will be in effect.
3	Q:	Do credit rating agencies recognize risk associated with increased capital
4		expenditures?
5	A:	Yes, they do. From a credit perspective, the additional pressure on cash flows associated
6		with high levels of capital expenditures exerts corresponding pressure on credit metrics
7		and, therefore, credit ratings. S&P has noted that:
8 9 10 11		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. ***
12 13		To retain critical access to the debt markets, utilities will need to continue to seek and receive supportive cost recovery from regulators. ⁶⁷
14		The rating agency views noted above also are consistent with certain observations
15		discussed earlier in my Direct Testimony: (1) the benefits of maintaining a strong
16		financial profile are significant when capital access is required, and become particularly
17		acute during periods of market instability; and (2) the Commission's decision in this
18		proceeding will have a direct bearing on the Company's credit profile, and its ability to
19		access the capital needed to fund its investments.
20	Q:	Have you also considered the relationship between capital expenditures and the
21		earned return on common equity?
22	A:	Yes, I have. The "DuPont" formula decomposes the Return on Common Equity into
23		three components: (1) the Profit Margin (net income/revenues); (2) Asset Turnover

.

⁶⁷ Standard & Poor's, U.S. Utilities' Capital Spending is Rising, and Cost-Recovery is Vital, RatingsDirect, May 14, 2012, at 6.

(revenues/net plant); and (3) the Equity Multiplier (net plant/equity).⁶⁸ As Schedule 1 2 RBH-9 demonstrates, based on the proxy companies, the Asset Turnover rate declined 3 from 2008 through 2016 and is expected to remain at its current level through Value 4 Line's 2020 - 2022 projection period. Over that same period, according to Value Line 5 data, average Net Plant is expected to experience a cumulative increase of approximately 6 125.00 percent. Since, as noted above, the utility industry is going through a period of 7 increased capital investment, the lag between the addition of net plant and revenue 8 generated by those investments dilute the Asset Turnover ratio, at least in the near term.

9 To gain an additional perspective on the relationship between plant additions and 10 Asset Turnover, I performed a regression analysis in which the annual change in the 11 Asset Turnover rate was the dependent variable, and the annual change in Net Plant was 12 the independent variable. As shown in Schedule RBH-9, that analysis indicates a 13 statistically significant negative relationship between the two variables, such that as 14 annual net plant increases, the Asset Turnover ratio decreases. This, in turn, suggests that 15 an increase in capital expenditures also negatively affects the Return on Common Equity, 16 causing greater financial stress to the utility. To the extent investors value a company 17 based on earnings and cash flow, this additional financial strain is a key concern.

18 Q: What are your conclusions regarding the effect of the Company's capital spending 19 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.

6 Q: Wh

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

7 The regulatory environment is one of the most important issues considered by both debt A: 8 and equity investors in assessing the risks and prospects of utility companies. From the 9 perspective of debt investors, the authorized return should enable the Company to 10 generate the cash flow needed to meet its near-term financial obligations, make the 11 capital investments needed to maintain and expand its system, and maintain sufficient 12 levels of liquidity to fund unexpected events. That financial liquidity must be derived not 13 only from internally generated funds, but also by efficient access to capital markets. 14 Because investors have many investment alternatives, even within a given market sector, 15 the Company's financial profile must be adequate on a relative basis to ensure its ability 16 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 GMO'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.

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

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

6 Q: Do economic conditions influence the required cost of capital and required return 7 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 GMO'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

Theory and Practice at 140-41 (12th ed., 2008).

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.

7 More recently, interest rates have risen and become increasingly volatile. In the 8 equity markets, sectors that historically have included dividend-paying companies lost 9 value, as increasing interest rates provided investors with other sources of current 10 income. Because those dynamics affect different models in different ways, it would be 11 inappropriate to rely on a single method to estimate the Company's Cost of Equity. A 12 more reasoned approach is to understand the relationships among Federal monetary 13 policy, interest rates, and measures of market risk, and to consider how those factors may 14 affect different models and their results. As discussed throughout my Direct Testimony, 15 it remains important to consider a broad range of data and models when determining the 16 Company's Cost of Equity.

17 Q: Please summarize the effect of recent Federal Reserve policies on interest rates and 18 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

⁶⁹ See Federal Reserve Press Release, December 16, 2015.

1 otherwise have been borne by private investors."⁷¹ Under that policy, "Securities held 2 outright" on the Federal Reserve's balance sheet increased from approximately \$489 3 billion at the beginning of October 2008 to \$4.23 trillion by December 2017.⁷² To put 4 that increase in context, the securities held by the Federal Reserve represented 5 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 6 7 such, the Federal Reserve provided a significant source of liquidity, and had a substantial 8 effect on capital markets.

9 Q: Does your recommendation consider the interest rate environment?

10 A: Yes, it does. From an analytical perspective, it is important that the inputs and 11 assumptions used to arrive at an ROE recommendation, including assessments of capital 12 market conditions, are consistent with the recommendation itself. Although all analyses 13 require an element of judgment, the application of that judgment must be made in the 14 context of the quantitative and qualitative information available to the analyst, and the 15 capital market environment in which the analyses were undertaken. Because the Cost of 16 Equity is forward-looking, the salient issue is whether investors see the likelihood of 17 increased interest rates during the period in which the rates set in this proceeding will be 18 in effect.

19 The low interest rate environment associated with central bank intervention may 20 lead some analysts to conclude that current capital costs, including the Cost of Equity, are 21 low and will remain as such. However, that conclusion only holds true under the

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

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.

8 Classic valuation theory assumes investors trade securities rationally, with prices 9 reflecting their perceptions of value. Although central banks may set benchmark interest 10 rates, they have maintained below-normal rates to stimulate economic expansion and 11 capital market recovery. It therefore is reasonable to conclude that the Federal Reserve 12 and other central banks have been acting as market-movers, thereby having a significant 13 effect on the market prices of both bonds and stocks. The presence of market-movers, 14 such as the Federal Reserve, runs counter to the PCCM hypothesis, which underlies 15 traditional Cost of Equity models. Consequently, the results of those models should be 16 considered in the context of both quantitative and qualitative information.

17Although the Federal Reserve's market intervention policies have kept interest18rates historically low, since July 8, 2016 (when the 30-year Treasury yield hit an all-time19low of 2.11 percent), rates have risen. As the Federal Reserve increased the Federal20Funds target rate by 25 basis points in December 2016 (from 0.25 percent - 0.50 percent21to 0.50 percent - 0.75 percent), March 2017 (to 0.75 percent - 1.00 percent), June 201722(to 1.00 percent - 1.25 percent), and in December 2017 (to 1.25 percent - 1.50 percent),

⁷³ Source: Federal Reserve Board Schedule H.4.1; Bureau of Economic Analysis.

short-term and long-term interest rates increased by a corresponding amount (*see* Chart 5
 below).⁷⁴

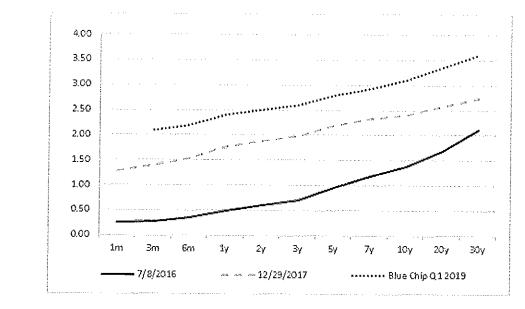


Chart 5: Treasury Yield Curve: 7/8/2016, 12/29/2017 and Projected Q1 201975

5 Lastly, on September 20, 2017, the Federal Reserve announced that it will "initiate the balance sheet normalization program described in the June 2017 Addendum 6 7 to the Committee's Policy Normalization Principles and Plans."⁷⁶ Those "Principles and 8 Plans" call for reducing the reinvestment of principal payments received from its 9 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 10 11 continue considering increases to the Federal Funds target rate. As noted below, current 12 market data indicate an approximately 96.30 percent likelihood of further rate increases 13 by December 2018.

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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).

- 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 long term 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.

12

 Table 8: Probability of Federal Funds Rate Increases⁷⁸

Target	Federal Reserve Meeting Date							
Rate (bps)	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%

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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-

Federal Reserve Addendum to the Policy Normalization Principles and Plans, as adopted effective June 13, 2017.

1 year Treasury yield equals the combination of the current three-year Treasury yield, and 2 the 29-year Treasury yield expected in one year. That is, an investor would be indifferent 3 to (1) holding a 30-year Treasury to maturity, or (2) holding a one-year Treasury to 4 maturity, then a 29-year Treasury bond, also to maturity.⁷⁹ Chart 6, below, shows the 5 difference between the forward and spot Treasury yields over time. It indicates that since 6 2006 the implied forward 29- and 28- year yields (one and two years hence, respectively) 7 consistently exceeded the (interpolated) spot yields. That is, just as economists' 8 projections implied increased interest rates, so did observable Treasury yields.

9

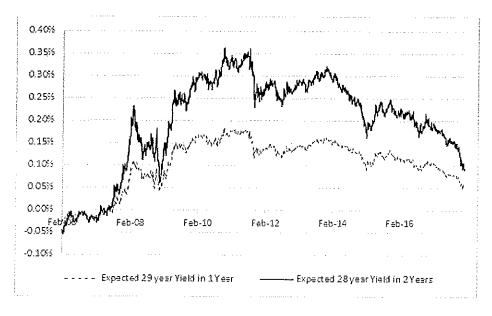


Chart 6: Forward vs. Interpolated Treasury Yields⁸⁰

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- ⁷⁸ See <u>http://www.cmegroup.com/trading/interest-rates/countdown-to-fomc.html</u>, 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, <u>Corporate Finance</u> at 130-131.

⁸⁰ Source: Federal Reserve Schedule H.15. Spot yields are interpolated.

1

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.

8 Although the market data discussed above indicate increasing costs of capital, it is 9 important to keep in mind that although estimating the Cost of Equity is an empirical 10 exercise, rote application of a specific form of an analysis, or the mechanical use of 11 specific model inputs, may well produce misleading results. The methods used to 12 estimate the Cost of Equity, or the weight given to any one method, may change from 13 case to case. Therefore, the returns authorized in other jurisdictions provide a relevant. 14 observable, and verifiable benchmark for assessing the reasonableness of analytical 15 assumptions, results, and conclusions. As shown in Chart 1, my recommended ROE 16 range of 9.75 percent to 10.50 percent is highly consistent with authorized returns over 17 the last five years.

18

19 Q: Have you also reviewed the relationship between credit spreads for A-rated utility 20 debt relative to A-rated corporate debt?

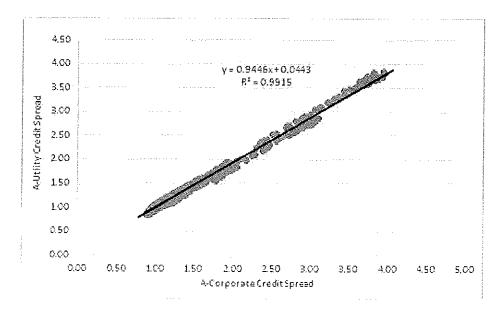
A: Yes, I have. Given the historical volatility in the spread between corporate and utility Arated debt, there is no reason to conclude that utility yields are different than those of
their corporate counterparts. That conclusion is consistent with the finding that over
time, there has been a nearly one-to-one relationship between credit spreads on A-rated

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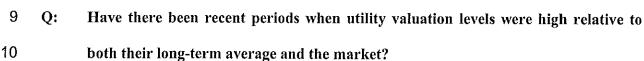
corporate and utility bonds. In fact, a regression analysis in which corporate credit
spreads are the explanatory variable and utility credit spreads are the dependent variable
shows that slope is approximately 1.00 and highly significant (*see* Chart 7, below).
Because the intercept term is nearly zero, we can conclude that there has been no material
difference between the two, and there certainly is no meaningful difference in the current
market.

7

Chart 7: Corporate and Utility Credit Spreads (A-Rated)⁸¹



8



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.

4 Q: What conclusions do you draw from your analyses of the current capital market 5 environment, and how do those conclusions affect your ROE recommendation?

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.

11 From an analytical perspective, it is important that the inputs and assumptions 12 used to arrive at an ROE determination, including assessments of capital market 13 conditions, are consistent with the conclusion itself. Although all analyses require an 14 element of judgment, the application of that judgment must be made in the context of the 15 quantitative and qualitative information available to the analyst and the capital market 16 environment in which the analyses were undertaken. Because the application of financial 17 models and interpretation of their results often is the subject of differences among 18 analysts in regulatory proceedings, I believe that it is important to review and consider a 19 variety of data points. This approach enables us to put in context both quantitative 20 analyses and the associated recommendations.

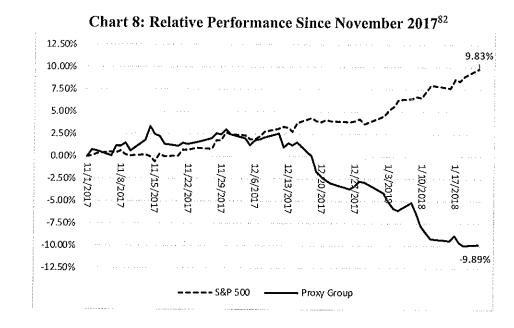
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Because not all models used to estimate the Cost of Equity adequately reflect those changing market dynamics, it is important to give appropriate weight to the

⁸¹ Source: Federal Reserve Schedule H.15.

1		methods and to their results. Moreover, because those models produce a range of results,
2		it is important to consider the type of data discussed above in determining where the
3		Companies' ROE falls within that range. As described in Section V, on balance, I
4		believe that the DCF-based results should be viewed very carefully, and that more weight
5		should be accorded the Risk Premium-based methods, i.e., the Capital Asset Pricing
6		Model discussed in Section V.C and the Bond Yield Plus Risk Premium Model discussed
7		in Section V.D. I believe that doing so supports my recommended range of 9.75 percent
8		to 10.50 percent.
9		
10	Q.	Have you also considered the effect of the recently enacted Tax Cut and Jobs Act
10 11	Q.	Have you also considered the effect of the recently enacted Tax Cut and Jobs Act ("TCJA")?
	Q. A.	
11	_	("TCJA")?
11 12	_	("TCJA")? Yes, I have. On December 22, 2017, the President of the United States signed the TCJA
11 12 13	_	("TCJA")? 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
11 12 13 14	_	("TCJA")? 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)



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.

10 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

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Source: S&P Global Market Intelligence. Proxy group calculated as an index.

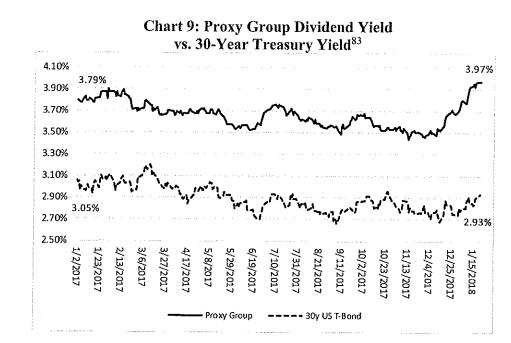
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sector in the context of the TCJA, with Moody's noting negative ratings implications for many of the utilities it covers.

3

2

3 4



5

Q. Are there reasons to expect the TCJA may affect the models used to estimate the Cost of Equity?

8 Yes, there are. As discussed earlier in my Direct Testimony, the Constant Growth DCF Α. 9 model is based on several assumptions that together assume current market conditions 10 essentially will remain in place, unchanged, in perpetuity. Because we have seen a 11 significant change in utility valuations, we should recognize the mean DCF results likely 12 are not reliable indicators of the Company's Cost of Equity. As also discussed in my 13 Direct Testimony, the Cost of Equity is affected by the degree of financial leverage, or 14 debt, in the capital structure. Because there is a "tax shield" associated with debt, lower 15 marginal tax rates will increase the risk-effect of leverage. That effect would manifest 16 itself in increased Beta coefficients of the CAPM, for example. The point simply is that

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Source: S&P Global Market Intelligence. My proxy group calculated as an index.

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?

5 A. The rating agencies have observed that a reduction in utilities' revenue associated with 6 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 7 8 strategies on the regulatory front, this is expected to lead to weaker credit metrics and 9 negative rating actions for issuers with limited headroom to absorb the leverage creep."85 10 In a similar vein, Standard & Poor's observed that the TCJA is "...negative for credit 11 quality because the combination of a lower tax rate and the loss of stimulus provisions 12 related to bonus depreciation or full expensing of capital spending will create headwinds 13 in operating cash-flow generation capabilities as customer rates are lowered in response 14 to the new tax code."⁸⁶ Moody's stated the following:

15 Tax reform is credit negative for US regulated utilities because the 16 lower 21% statutory tax rate reduces cash collected from customers. 17 while the loss of bonus depreciation reduces tax deferrals, all else being equal. Moody's calculates that the recent changes in tax laws 18 19 will dilute a utility's ratio of cash flow before changes in working 20 capital to debt by approximately 150 - 250 basis points on average, 21 depending to some degree on the size of the company's capital 22 expenditure programs. From a leverage perspective, Moody's estimates

⁸⁴ See S&P Global Market Intelligence, *Rating agencies warn tax reform could drag US utility sector credit quality*, January 25, 2018.

⁸⁵ FitchRatings Special Report, *Tax Reform Impact on the U.S. Utilities, Power & Gas Sector*, January 24, 2018.

⁸⁶ S&P Global Ratings, U.S. Tax Reform: For Utilities' Credit Quality, Challenges Abound, January 24, 2018.

1 2		that debt to total capitalization ratios will increase, based on the lower value of deferred tax liabilities. ⁸⁷
3		All three rating agencies, therefore, have observed the negative effects of the TCJA on
4		utilities' cash flow, and the potential consequences for their credit profiles.
5	Q.	Have the rating agencies also discussed possible regulatory reactions to the cash
6		flow implications of the TCJA?
7	A.	Yes. Moody's, for example, identified approaches to help preserve credit profiles,
8		including "accelerated cost recovery of certain regulatory assets or future investment;
9		changes to the equity layer or allowed ROEs in rates, and other actions." Moody's also
10		suggested that "[c]hanges to corporate financial policies could include changes to
11		capitalization, the financing of future investments, dividend growth, or others."88
12		FitchRatings observed the following:
13 14 15 16 17 18 19 20		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:
21 22 23		• 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
24		• Return of excess unprotected ADIT over a longer-term horizon
25		 Increase in authorized equity ratio and/or return on equity
26		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.
 ⁸⁸ Moody's Investors' Service. *Rating Action: Moody's changes outlooks on 25 US regulated utilities*

⁸ Moody's Investors' Service, *Rating Action: Moody's changes outlooks on 25 US regulated utilities primarily impacted by tax reform*, January 19, 2018.

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• Lower capex⁸⁹

		*
2		As both rating agencies discussed, regulatory responses may vary by company and
3		jurisdiction, but may include a variety of potential approaches.
4	Q.	What conclusions do you draw from the data and information discussed above?
5	A.	There is little question that the TCJA has increased cash flow-related risks for utilities.
6		Those risks are manifested in the sector's significant underperformance relative to the
7		broad market, and in the comments of financial participants such as Moody's, Standard &
8		Poor's, and FitchRatings.
9	Q.	Are you recommending a higher ROE in this proceeding in connection with the
10		TCJA?
11	A.	No, I am not. Rather, I recommend that the Commission consider the capital market
12		implications of the TCJA as part of its review. Based on the data and information
13		discussed above, it is my view that the TCJA, and its implications for utilities' cash flows
14		and credit profiles, provide further support for my ROE range and recommendation.
15		
		VIII. COST OF DEBT
16	Q:	What is the Company's Cost of Debt?
17	A:	As shown in Schedule RBH-10, the Company's Cost of Debt is 5.06 percent.
18	Q:	Have you assessed the Company's Cost of Debt?
19	A:	Yes, I reviewed the prevailing Bloomberg Fair Value Curves for A-rated and BBB-rated
20		utility debt concurrent with the date of issuance of the Company's debt instruments. As

⁸⁹ FitchRatings Special Report, *Tax Reform Impact on the U.S. Utilities, Power & Gas Sector*, January 24, 2018.

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

4 Q: Please summarize the Company's requested capital structure and overall rate of 5 return.

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

8

Table 9: Summary of Overall Rate of Return⁹⁰

Capital Components	Ratio	Cost	Weighted Cost		
Long-Term Debt	45.60%	5.06%	2.31%		
Common Equity	54.40%	9.85%	5.36%		
Total	100.00%		7.66%		

9 Q: What is the basis for the Company's requested capital structure and overall rate of 10 return?

A: The requested capital structure, as well as the Cost of Debt, are based on GMO'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.

⁹⁰ See Schedule RBH-10.

1	Q:	What are the principal differences between GMO's actual capital structure as of
2		November 30, 2017 and the requested projected capital structure as of June 30,
3		2018?
4	A:	The actual GMO capital structure as of November 30, 2017, is shown on page 2 of
5		Schedule RBH-10. The key differences between the actual capital structure and the
6		requested capital structure, projected as of June 30, 2018, are as follows:
7		• Net Long-Term Debt is projected to decrease by \$1.125 million due to a
8		yearly principal payment.
9		• Equity is projected to increase by \$4.74 million due to additional earnings
10		and an increase in the accumulated other comprehensive income balance,
11		which is partially offset by common dividends declared.
12	Q:	How does the capital structure affect the Cost of Equity?
12 13	Q: A:	How does the capital structure affect the Cost of Equity? In practice, the capital structure should enable the Company to maintain or enhance its
13		In practice, the capital structure should enable the Company to maintain or enhance its
13 14		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
13 14 15		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
13 14 15 16		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
13 14 15 16 17		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
13 14 15 16 17 18		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,
13 14 15 16 17 18 19		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

1		a just and reasonable rate of return. Therefore, it is important to consider the capital
2		structure in light of industry practice and investor requirements.
3	Q:	Please describe your analysis of the Company's capital structure relative to industry
4		practice.
5	A:	As a measure of industry practice, I calculated the average capital structure for each of
6		the utility operating companies held by the proxy companies over the last eight fiscal
7		quarters. As shown in Schedule RBH-12, the proxy group average capital structure over
8		that period includes 52.32 percent common equity and 47.38 percent long-term debt; the
9		average common equity ratios (on a company-specific basis) range from 45.89 percent to
10		59.52 percent. Based on that review, it is apparent that GMO's capital structure is
11		consistent with those in place at the proxy companies.
11 12	Q:	consistent with those in place at the proxy companies. What is the basis for using average capital components rather than a point-in-time
	Q:	
12	Q: A:	What is the basis for using average capital components rather than a point-in-time
12 13		What is the basis for using average capital components rather than a point-in-time measurement?
12 13 14		What is the basis for using average capital components rather than a point-in-time measurement? Measuring the capital components at a particular point in time can skew the capital
12 13 14 15		What is the basis for using average capital components rather than a point-in-time measurement? 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
12 13 14 15 16		What is the basis for using average capital components rather than a point-in-time measurement? 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
12 13 14 15 16 17	A:	What is the basis for using average capital components rather than a point-in-time measurement? 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.

X. CONCLUSIONS AND RECOMMENDATION

1 **Q**: What is your conclusion regarding the Company's Cost of Equity? 2 As discussed in Section V (and as shown in Schedules RBH-1 through RBH-7), I have A: 3 performed several analyses to estimate GMO's Cost of Equity. In light of those results, 4 and taking into consideration other relevant and observable market data, as well as the 5 Commission's findings in the 2015 KCP&L Order, I believe that an ROE in the range of 6 9.75 percent to 10.50 percent represents the range of returns required by equity investors 7 under current and expected market conditions. As discussed earlier in my testimony, my 8 recommendation reflects analytical results based on a proxy group of electric utilities, 9 and takes into consideration the Company's risk profile, including the regulatory 10 environment in which GMO operates, its generation portfolio, and its planned capital 11 expenditures. 12 I also conclude that the Company's 5.06 percent Cost of Debt reflects prevailing 13 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 54.40 percent
common equity, 45.60 percent long-term debt is reasonable relative to its peers. The
Company's proposed capital structure is consistent with industry practice, and supports
GMO's financial integrity.

18 Q: Does this conclude your Direct Testimony?

19 A: Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of KCP&L Greater Missouri Operations Company's Request for Authority to Implement A General Rate Increase for Electric Service

Case No. ER-2018-0146

AFFIDAVIT OF ROBERT B. HEVERT

)

STATE OF MISSOURI)) ss 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 KCP&L Greater Missouri Operations Company.

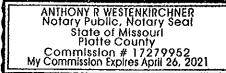
2. Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of KCP&L Greater Missouri Operations Company consisting of <u>seventy-one</u> (<u>71</u>) pages, having been prepared in written form for introduction into evidence in the above-captioned docket.

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 $2^{\frac{2}{1}}$ day of January 2018.

Notary Public

My commission expires: $\frac{4}{26}/262$



		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
			Average		Expected	Zacks	First Call	Value Line	Average			
		Annualized	Stock	Dividend	Dividend	Earnings	Earnings	Earnings	Earnings	Low	Mean	High
Company	Ticker	Dividend	Price	Yield	Yield	Growth	Growth	Growth	Growth	ROE	ROE	ROE
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 Resources, 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%
Hawailan 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.	!DA	\$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.	ÓGE	\$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			<u> </u>	3.13%	3.21%	5.10%	4.71%	6.00%	5.17%	7.56%	8.58%	9.23%

Constant Growth Discounted Cash Flow Model 30 Day Average Stock Price

Notes:

[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals indicated number of trading day average as of December 29, 2017
[3] Equals [1] / [2]
[4] Equals [3] x (1 + 0.5 x [8])
[5] Source: Zacks

[6] Source: Yahoo! Finance [7] Source: Value Line [8] Equals Average([5], [6], [7]) [9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7])

[10] Equals [4] + [8] [11] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

Constant Growth Discounted Cash Flow Model 90 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	<u>[1</u> 1]
Company	Ticker	Annualized Dividend	Average Stock Price	Dividend Yield	Expected Dividend Yield	Zacks Earnings Growth	First Call Eamings Growth	Value Line Earnings Growth	Average Earnings Growth	Low ROE	Mean ROE	High ROE
ALLETE, Inc. Alliant Energy Corporation Ameren Corporation	ALE LNT AEE	\$2.14 \$1.26 \$1.83	\$77.72 \$43.28 \$60.87	2.75% 2.91% 3.01%	2.83% 3.01% 3.11%	7.20% 6.40% 7.00%	5.00% 7.05% 7.00%	5.00% 6.00% 6.00%	5.73% 6.48% 6.67%	7.82% 9.00% 9.10%	8.57% 9.49% 9.77%	10.05% 10.06% 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 Resources, 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%	<u>5.10%</u>	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, 2017 [3] Equals [1] / [2] [4] Equals [3] x (1 + 0.5 x [8]) [5] Source: Zacks [6] Source: Yahoo! Finance [7] Source: Value Line [8] Equals Average([5], [6], [7]) [9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7]) [10] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

Constant Growth Discounted Cash Flow Model 180 Day Average Stock Price

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]
		Annualized	Average Stock	Dividend	Expected Dividend	Zacks Eamings	First Call Earnings	Value Line Eamings	Average Earnings	Low	Mean	Hìgh
Company	Ticker	Dividend	Price	Yield	Yield	Growth	Growth	Growth	Growth	ROE	ROE	
	AL 17	-	A74.04	0.000/	0.049/	7.000/	- 000/	5 000	C 700/	7.00%	0.070/	40.40%
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	AEË	\$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 Resources, 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	ΈE	\$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%

Pinnacie 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 Proxy Group Median				3.26% 3.13%	3.34% 3.24%	5.03% 5.10%	4.68% 4.71%	5.36% 6.00%	5.04% 5.17%	7.49% 7.56%	8.38% 8.48%	9.32% 9.33%

Notes:

 Notes:

 [1] Source: Bloomberg Professional

 [2] Source: Bloomberg Professional, equals indicated number of trading day average as of December 29, 2017

 [3] Equals [1] / [2]

 [4] Equals [3] x (1 + 0.5 x [8])

 [5] Source: Zacks

 [6] Source: Yahool Finance

 [7] Source: Value Line

 [8] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Minimum([5], [6], [7])

 [9] Equals [3] x (1 + 0.5 x Minimum([5], [6], [7])) + Maximum([5], [6], [7])

 [10] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

ALLETE, Inc. A Alliant Energy Corporation L American Electric Power Company, Inc. A Black Hills Corporation E	cker LE	[1] Stock Price		[3] Growth Ra First Call	Value	25	[6] Long-Term	P	[8] ayout Ratio	, [9]	[10] Itorativo S	[11] Solution	[12] Terminal	[13] Terminal PEG				
ALLETE, inc. A Allant Energy Corporation L American Electric Power Company, Inc. A Black Hills Corporation E	LE		Zacks	First Call										550				
ALLETE, inc. A Allant Energy Corporation L American Electric Power Company, Inc. A Black Hills Corporation E	LE		ZUCKS				Construction of the						D/0 0-1-					
Alliant Energy Corporation L American Corporation A American Electric Power Company, Inc. A Black Hills Corporation E			7.20%	5.00%	Line 5,00%	Average 5.73%	Growth 5.38%	2017 63,00%	2021 61.00%	2027 65,91%	Proof (\$0.00)	IRR 8.51%	P/E Ratio 22,21	Ratio 4.13				
Ameren Corporation A American Electric Power Company, Inc. A Black Hills Corporation E	NT	\$77.37 \$43.95	6.40%	7.05%	6.00%	5.73% 6.48%	5.38%	65,00%		65,91%	(\$0.00)	8,45%	22.59	4.13				
American Electric Power Company, Inc. A Black Hills Corporation E	EΕ	\$61.69	7.00%	7.00%	6.00%	6.67%	5.38%	64.00%		65,91%	(\$0.00)	8.93%	19.54	3.63				
	EP	\$75.90	4.80%	2.77%	4.00%	3.86%	5.38%	69.00%		65.91%	(\$0.00)	9.22%	18.09	3.36				
CMS Engrave Corporation C	KH	\$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				
	MS	\$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				
	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				
	UK	\$112.59 \$87.23	6.00% 4.00%	4.91% 3.23%	6.00% 4.50%	5.64% 3.91%	5.38%	56.00%		65.91% 65.91%	(\$0.00)	8.66% 8.42%	21.13 22.83	3.93 4.25				
	EE	\$58.40	5.20%	5.30%	4.50%	5.17%	5.38% 5.38%	81.00% 50.00%	79.00% 57.00%	65.91%	(\$0.00) (\$0.00)	8.36%	22.03	4.25				
	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				
	DA	\$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 N	WE	\$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				
	GE	\$34.24	4.30%	3.90%	6.00%	4.73%	5.38%	67.00%		65.91%	(\$0.00)	9.02%	19.05	3.54				
	TTR	\$46.05	NA	5.20%	7.00%	6.10%	5,38%	72,00%		65.91%	(\$0.00)	8.12%	25.30	4.70				
	NW	\$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				
	NM	\$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				
	'OR 50	\$47.86 \$50.56	3.80%	4.00%	6.00%	4.60%	5.38%	59.00%	57.00%	65.91%	(\$0.00)	8.57%	21.76	4.05				
	SU /EC	\$50.56 \$67.80	4.50% 5.40%	2.33% 5.27%	3.50% 6.00%	3,44% 5.56%	5.38% 5.38%	75.00% 66.00%	73,00% 67.00%	65.91% 65.91%	(\$0.00) (\$0.00)	9.24% 8.75%	17,98 20,59	3,34 3,83				
	EL	\$50.21	5.50%	5.27% NA	4.50%	5.00%	5.38%	62.00%	66.00%	65.91% 65.91%	(\$0.00) \$0.00	8.64%	20.59	3,96				
Noor Chargy into.			0.0075		4,00 %	0.0070	0.00 //	02.0070	00.00 /4	00.0170	Mean	8,70%	21,14	0,00				
											Max	9.63%						
											Min	8.12%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company T	ckor	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	LE	\$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
Allant Energy Corporation	NT	\$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
	EE	\$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
	VEP	\$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
	SKH	\$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 \$4.33	\$5.54 \$4.56	\$5.84 \$4.81	\$6.16 \$5.07
	D	\$1.98 \$3.44	\$2.11 \$3.62	\$2.26 \$3.81	\$2.41 \$4.01	\$2.58 \$4.22	\$2.75 \$4.44	\$2.93 \$4.68	\$3,12 \$4,92	\$3,31 \$5,19	\$3.50 \$5.46	\$3.70 \$5.75	\$3.90 \$6.06	\$4,11 \$6.39	\$4.33 \$6.73	\$4.56 \$7.10	\$4.61 \$7.48	\$7.88
	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
	UK	\$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
	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
Hawalian 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
	DA	\$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
	WE.	\$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
	GE	\$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
	TTR NW	\$1.60 \$3.95	\$1.70 \$4.14	\$1.80 \$4.33	\$1.91 \$4.54	\$2.03 \$4.75	\$2.15 \$4,97	\$2.28 \$5.21	\$2.41 \$5.47	\$2.55 \$5.75	\$2.70 \$6.05	\$2.84 \$6,36	\$3.00 \$6.71	\$3.16 \$7.07	\$3.33 \$7.45	\$3.51 \$7.85	\$3.70 \$8.27	\$3.89 \$8.71
	NM	\$3.95 \$1.65	\$1,75	\$4.33 \$1.87	\$4.54 \$1.98	\$ 4 .75 \$2.11	\$4.97 \$2.24	\$2.38	\$2.53	\$2.68	\$2.83	\$2.98	\$3.15	\$3.31	\$3.49	\$3.68	\$3.88	\$4.09
	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
	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
	VEC	\$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
Xcol Energy Inc.	KEL	\$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]
		······································	. ()															
	ckor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	ALE	Spectrum	63.00%	62.50%	62.00%	61.50%	61.00%	61.82%	62.64%	63.45%	64.27%	65.09%	65.91%	65.91%	85.91%	65.91%	65.91%	65.91%
	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%
	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%	65.91% 65.91%
	AEP BKH		69.00%	67.50% 61.00%	66.00% 61.00%	64.50% 51.00%	63.00%	63.48% 53.48%	63,97%	64.45% 58.45%	64.94% 60.94%	65.42% 63.42%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Black Hills Corporation	SKH CMS		51.00% 61.00%	51.00% 61.00%	51.00% 61.00%	51.00% 61.00%	51.00% 61.00%	53,48% 61,82%	55.97% 62.64%	58.45% 63.45%	60.94% 64.27%	63.42% 65.09%	65.91%	65.91% 65.91%	65.91%	65.91%	65.91%	65.91%
CMS Energy Corporation		Normal Contraction																65.91%
	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%	00.91%
Dominion Resources, Inc.	ם arc		83.00% 56.00%	84.00% 58.00%	85.00% 60.00%	86.00% 62.00%	87.00% 64.00%	83.48% 64.32%	79.97% 64.64%	76.45% 64.95%	72.94% 65.27%	69.42% 65.59%	65.91% 65.91%	65.91% 65.91%	65,91% 65,91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%

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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%
Hawailan Electric Industries, Inc.	HE STREET	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%
Ottor 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)
													· · · · · · · · · · · · · · · · · · ·					Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
Amorican 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 Resources, 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 SERVER	\$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
Hawailan Electric Industries, Inc.	HE CONSCR	\$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 Tall Corporation	OTTR	\$1.22	\$1.23	\$1.24	\$1.25	\$1.25	\$1.35	\$1.45	\$1.58	\$1,71	\$1.84	\$1.97	\$2.08	\$2.19	\$2.31	\$2,44	\$2.57	\$98.50
Pinnacie 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]
		Initial																	
Company	Ticker	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	(\$77.37)	\$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 Resources, 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
Hawalian 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 Enorgy 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 Tall 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 Rosources, 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
Xcol Enorgy 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

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

Company LLETE, Inc. Villant Energy Corporation Imeren Corporation	Tickor	Stock		Cenuth P-	[4]	[5]		7	[8]	[9]	[10]	<u>[11]</u>	[12]	[13]				
ALLETE, Inc. Milant Energy Corporation	Tielcor			Growth Ra	Value	High	Long-Term		ayout Ratio		Itorative \$		Terminal	Terminal PEG				
Illant Energy Corporation		Price		First Call	Lino	Growth	Growth	2017	2021	2027	Proof	IRR	P/E Ratio	Ratio				
	ALE	\$77.37	7.20%	5.00%	5.00%	7.20%	5.38%	63.00%	61.00%	65.91%	(\$0.00)	8.82%	20.17	3.75				
Ameren Corporation	LNT	\$43.95	6.40%	7.05%	6.00%	7.05%	5.38%	66.00%	66.00%	65.91%	(\$0.00)	8.57%	21.77	4.05				
	AEE	\$61.69	7.00%	7.00%	6.00%	7.00%	5.38%	64.00%	60.00%	65.91%	(\$0.00)	9.01%	19.12	3.56				
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)	9.47%	16.99	3.16				
Black Hills Corporation	BKH	\$58.88	4.90%	4.26%	7.50%	7.50%	5.38%	51.00%	51.00%	65.91%	(\$0.00)	9.12%	18.56	3.45				
CMS Energy Corporation	CMS	\$48.93	6.50%	7.44%	6.50%	7.44%	5.38%	61.00%	61.00%	65.91%	(\$0.00)	8.86%	19.95	3.71				
Dominion Resources, Inc.	D	\$82.55	5.60%	3.64%	6.50%	6.50%	5.38%	83.00%	87,00%	65.91%	(\$0.00)	9.00%	19.20	3.57				
DTE Energy Company	DTE	\$112.59	6.00%	4.91%	6.00%	6.00%	5.38%	56.00%	64.00%	65.91%	(\$0.00)	8.74%	20.63	3.84				
Duke Energy Corporation	DUK	\$87.23	4.00%	3.23%	4.50%	4.50%	5.38%	81.00%	79.00%	65.91%	(\$0.00)	8.55%	21.92	4.08				
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)	8.39%	23.05	4.29				
lawalian Electric Industries, Inc.	HΕ	\$37.06	4.20%	4.50%	1.50%	4.50%	5.38%	77.00%	70,00%	65.91%	(\$0.00)	9.96%	15.17	2.82				
DACORP, Inc.	JDA	\$95.25	5.00%	4.00%	3,50%	5.00%	5.38%	54.00%	61,00%	65.91%	(\$0.00)	8.39%	23.03	4.28				
NorthWestern Corporation	NWE	\$61.63	1.50%	2.25%	4.50%	4.50%	5.38%	62.00%	62,00%	65.91%	(\$0.00)	9.30%	17.72	3.30				
DGE Enorgy Corp.	OGE	\$34.24	4.30%	3.90%	6.00%	5.00%	5.38%	67.00%	70.00%	65.91%	(\$0.00)	9.34%	17.51	3.26				
Ottor Tail Corporation	OTTR	\$46.05	NA	5.20%	7.00%	7.00%	5.38%	72.00%	58,00%	65.91%	(\$0,00)	8.29%	23.84	4.43				
Pinnaclo West Capital Corporation	PNW	\$88.73	3.20%	5.46%	5,50%	5.50%	5.38%	63.00%	63.00%	65.91%	(\$0.00)	8.77%	20.47	3.81				
PNM Rosources, Inc.	PNM	\$43.71	5.50%	6.05%	7.50%	7.50%	5.38%	48.00%	57.00%	65.91%	(\$0.00)	8.59%	21,65	4.03				
Portland Goneral Electric Company	POR	\$47.86	3.80%	4.00%	6.00%	6.00%	5.38%	48.00% 59.00%	57.00%	65.91%	(\$0.00)	8.88%	19.84	3.69				
Southern Company	SO	\$50.56	3.80% 4.50%	2.33%	3.50%	4.50%	5.38%	75.00%	73,00%	65.91% 65.91%	(\$0.00) \$0.00	8.00% 9.53%	19.84	3.69				
A/EC Energy Group, Inc.	WEC XEL	\$67.80	5.40%	5.27%	6.00%	6.00%	5,38%	66.00%	67.00%	65.91%	(\$0.00)	8.85% 8.75%	19,99	3.72				
Cel Energy Inc.	XEL	\$50.21	5.50%	NA	4.50%	5.50%	5.38%	62.00%	66.00%	65.91%	(\$0.00)		20.60	3.83				
											Mean	8.91% 9.96%						
											Max Min	9.90% 8.29%						
Projected Annual Earnings por Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	1957	[26]	[27]	[28]	(29)	1201
tarnings per Strate			[19]	_[[0]		[10]	[19]	20		[22]	40		[25]	20	40	20	[23]	[30]
Company	Tickor	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
Amoren 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 Resources, 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 Enorgy 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	\$11.6
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
Hawailan 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
DACORP, 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
	NWE		\$3.54	\$3.70								\$5.38			\$6.29	\$6.63		\$7.36
NorthWestern Corporation		\$3.39			\$3.87	\$4.04	\$4,22	\$4.42	\$4.63	\$4.86	\$5.11		\$5.67	\$5.97			\$6.99	
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 Tall 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
Pinnacio 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	\$9.2
NM 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 Goneral 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	\$6.1
NEC 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	\$7.1
Kool Enorgy 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]
<u>, , , , , , , , , , , , , , , , , , , </u>	Tickor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	203
Company			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
Company ALLETE, Inc.	ALE	 Algebra de la composition de la com		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
Company ALLETE, Inc. Alliant Energy Corporation	LNT		66.00%															
Company ALLETE, Inc. Alliant Energy Corporation Amoron Corporation	LNT AEE		64.00%	63.00%	52.00%	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
Company ALLETE, Inc. Alliant Energy Corporation Amoron Corporation	LNT				52.00% 66.00%	61.00% 64.50%	60.00% 63.00%	60.98% 63.48%	61.97% 63.97%	62.95% 64.45%	63.94% 64.94%	65.42%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%			65.91
Company ALLETE, Inc. Alliant Energy Corporation Amoren Corporation Amorican Eloctric Power Company, Inc.	LNT AEE		64.00%	63.00%												65.91%	65.91% 65.91% 65.91%	65.91 65.91
Company ALLETE, Inc. Aliant Energy Corporation Amorean Corporation Amorean Electric Power Company, Inc. Black Hills Corporation	LNT AEE AEP		64.00% 69.00%	63.00% 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% 65.91%	65.91 65.91 65.91
Company ALLETE, Inc. Alliant Energy Corporation Amoren Corporation Amorican Eloctric Power Company, Inc.	LNT AEE AEP BKH		64.00% 69.00% 51.00%	63.00% 67.50% 51.00%	66.00% 51.00%	64.50% 51.00%	63.00% 51.00%	63.48% 53.48%	63,97% 55,97%	64.45% 58.45%	64.94% 60.94%	65.42% 63.42%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91% 65.91%	65.91% 65.91% 65.91%	65.91 65.91 65.91 65.91 65.91

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Duke Energy Corporation Ei Paso Electric Company Hawaiian Electric Industries, Inc. IDACORP, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PMR Resources, Inc. Portland General Electric Company Southorn Company WEO Energy Group, Inc. Xcol Energy Inc.	DUK EE HEA NWE OGE PNW POR POR SOC WEL		81.00% 50.00% 77.00% 54.00% 67.00% 67.00% 63.00% 48.00% 59.00% 66.00% 62.00%	80.50% 51.75% 75.25% 55.75% 62.00% 67.75% 68.50% 63.00% 50.25% 58.50% 66.25% 63.00%	80.00% 53.50% 73.50% 57.50% 62.00% 68.50% 65.00% 63.00% 52.50% 58.00% 74.00% 66.50% 64.00%	79.50% 55.25% 71.75% 59.25% 69.25% 61.50% 63.00% 54.75% 57.50% 73.50% 66.75% 65.00%	79.00% 57.00% 61.00% 62.00% 58.00% 63.00% 57.00% 57.00% 57.00% 66.00%	76.82% 58.48% 69.32% 61.82% 62.65% 69.32% 63.48% 58.32% 63.48% 71.82% 65.98%	74.64% 59.97% 68.64% 62.64% 63.30% 68.64% 63.97% 59.97% 59.97% 66.64% 65.97%	72.45% 61.45% 63.45% 63.45% 61.95% 61.95% 64.45% 61.45% 61.45% 61.45% 65.95%	70.27% 62.94% 67.27% 64.27% 64.60% 67.27% 63.27% 64.94% 62.94% 62.94% 68.27% 66.27% 65.94%	68.09% 64.42% 65.59% 65.25% 64.59% 64.59% 65.42% 64.42% 64.42% 67.09% 65.92%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 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]
																			Terminal
Company	Tickor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Value
ALLETE, Inc.	ALE	Albumanan -	\$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 Resources, 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 Enorgy 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	EË		\$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
Hawalian 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.	QGE		\$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
Ottor 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
Xcol 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]
		Initial																	
Company	Tickor	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	(\$77.37)	\$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
Amoron 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 Resources, 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.	ΗE	(\$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 Tall 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	\$0.68	\$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
Xcol Energy Inc.	XËL	(\$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

Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Low EPS Growth Rate Estimate In First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	19]	[10]	(11)	[12]	[13]				
		Stock	ÉPS	Growth Ra	te Estimati Value	Low	Long-Term	P	ayout Ratio	>	Itorative	Solution	Terminal	Torminal PEG				
Company	Ticker	Prico	Zacks	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				
Amoren 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	3.52				
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 Dominion Resources, Inc.	CMS D	\$48.93 \$82.55	6.50% 5.60%	7.44% 3.64%	6.50% 6.50%	6.50% 3.64%	5.38% 5.38%	61.00% 83.00%	61.00% 87.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.65% 8.35%	21.21 23.39	3.94 4.35				
DTE Energy Company	DTE	\$112.59	5.80% 6.00%	3.04 <i>%</i> 4.91%	6.00%	3.04% 4.91%	5.38%	56.00%	64.00%	65,91%	(\$0.00)	8.51%	23.39	4.35				
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	EΈ	\$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				
Hawalian 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				
DACORP, 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 Enorgy 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				
Ottor Tail Corporation	OTTR PNW	\$46.05	NA 2 000	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 PNM Resources, Inc.	PNW	\$88.73 \$43.71	3.20% 5.50%	5.46% 6.05%	5.50% 7.50%	3.20% 5.50%	5.38% 5.38%	63.00% 48.00%	63.00% 57.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.28% 8.19%	23.90 24.68	4.44 4.59				
Portland General Electric Company	POR	\$43.71	3.80%	4.00%	6.00%	3.80%	5.38%	48.00% 59.00%	57.00% 57.00%	65.91%	(\$0.00)	8.40%	22.96	4,59				
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 Enorgy 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				
Xcal 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 Min	9.11% 7.96%						
Projected Annual			(46)	(4.5)		(4.63				(22)					1077			10.01
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
Alilant Energy Corporation Amoren Corporation	LNT AEE	\$1.65 \$2.68	\$1.75 \$2.84	\$1.85 \$3.01	\$1.97 \$3.19	\$2.08 \$3.38	\$2.21 \$3.59	\$2.34 \$3.80	\$2.47 \$4.02	\$2.61 \$4.25	\$2.76 \$4.48	\$2.91 \$4.73	\$3.07 \$4,98	\$3.23 \$5,25	\$3.41 \$5.53	\$3.59 \$5.83	\$3.78 \$6.15	\$3.99 \$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	\$3.00 \$7.30	\$7.69	\$8,11
Black Hills Corporation	вкн	\$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 Resources, 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
Duko 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
DACORP, Inc. NorthWestern Corporation	IDA NWE	\$3.94 \$3.39	\$4.08 \$3.44	\$4.22 \$3.49	\$4.37 \$3.54	\$4.52 \$3.60	\$4.68 \$3.65	\$4.86 \$3.73	\$5.06 \$3.83	\$5.28 \$3.97	\$5.53 \$4.13	\$5.81 \$4.32	\$6.13 \$4.56	\$6,46 \$4.80	\$6.80 \$5.06	\$7.17 \$5.33	\$7.56 \$5.62	\$7.96 \$5.92
OGE Energy Corp.	OGE	\$1.69	\$1.76	\$1.82	\$3.34 \$1.90	\$3.00 \$1.97	\$2.05	\$2.13	\$2.22	\$2.33	\$2,44	\$4.32 \$2.57	\$4.56 \$2.71	\$4.80 \$2.85	\$3.00	\$3.33 \$3.17	\$3.34	\$3.52
Ottor Tall 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
Pinnacia 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
Southorn 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			(311	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
						<u> </u>	······					· · · · ·						
Company	Ticker		2017	2018	2019	2020	2021	2022	2023 52.64%	2024 63,45%	2025	2026	2027	2028 65.91%	2029 65.91%	2030 65.91%	2031 65.91%	2032
ALLETE, Inc.	ALE LNT		63.00% 66.00%	62.50% 66.00%	62.00% 66.00%	61.50% 66.00%	61.00% 66.00%	61.82% 65.98%	62.64% 65.97%	63.45% 65.95%	64.27% 65.94%	65.09% 65.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Allort Energy Corporation	AEE		64.00%	63.00%	62.00%	65.00% 61.00%	60.00% 60.00%	65.98% 60.98%	61,97%	62.95%	63.94% 63.94%	65.92%	65.91%	65.91% 65.91%	65.91%	65.91%	65.91% 65.91%	65.91%
			U++.UU 70	00.00/0										65.91%				
Ameren Corporation			69 00%	67.50%	66,00%	64,50%	63,00%	63.48%	63 97%	64.45%	64,94%	65.4.7%			05.97%	65,91%	65,91%	65,91%
Ameren Corporation American Electric Power Company, Inc.	AEP BKH		69.00% 51.00%	67.50% 51.00%	66.00% 51.00%	64.50% 51.00%	63.00% 51.00%	63.48% 53.48%	63.97% 55.97%	64.45% 58.45%	64.94% 60.94%	65.42% 63.42%	65.91% 65.91%	65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Ameren Corporation American Electric Power Company, Inc. Black Hills Corporation	AEP																	
Alilant Energy Corporation Amorean Corporation Amorean Electric Power Company, Inc. Black Hills Corporation CMS Energy Corporation Dominion Resources, Inc.	AEP 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%

Duke Energy Corporation	DUK	90922000	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%
Hawalian 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%
Southorn 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]	(4D]	[49]	[50]	(54)	1501	15:01	15 41	(66)	(50)	-571	[58]	[59]	1001	1041	[62]	[63]
Cash Plows		[43]	[48]	491	[<u>ov</u>]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[30]	[59]	[60]	[61]	021	Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Valuo
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
Allant Energy Corporation	LNT	\$1.15	\$1.22	\$1.30	\$1.37	\$1.45	\$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	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	\$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 Resources, 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 Stability	\$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
Hawalian Electric Industries, Inc.	HE MARKE	\$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 Tall 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
Southorn 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	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	(\$77.37)	\$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
Ameron 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 Resources, 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
Hawailan 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 Tall 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	S1.44	\$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

Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1]	121	[3]	641	[5]	[6]	[7]	(8)	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth Ra	ito Estimal		Long-Torm		ayout Rati		Iterative		Torminal	Torminal				
6	Takas	- Defen	Zacks	First Call	Value	A	A	0047	0004	0007		125		PEG				
Company ALLETE, Inc.	Ticker ALE	Price \$77.72	7.20%	5.00%	Line 5.00%	Average 5.73%	Growth 5.38%	2017 63.00%	2021	2027 65.91%	Proof \$0.00	IRR 8.49%	P/E Ratio 22.31	Ratio 4.15				
Alliant Energy Corporation	LNT	\$43.28	6.40%	7.05%	6.00%	5.48%	5.38%	66,00%	66.00%	65.91%	\$0.00	8.50%	22.31	4.15				
Ameron 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				
Amorican 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 Resources, Inc.	D	\$80.25	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 Enorgy 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				
Hawalian 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				
Ottor Tall 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 Goneral 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 Enorgy 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.	XE1_	\$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	Tickor	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	\$2.00 \$4.19	\$2,70 \$4,44	\$4.69	\$4.96	\$5.22	\$5.51 \$5.51	\$5.80	\$6.11	\$5.92	\$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 Resources, 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
Hawalian 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
Pinnacie 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
Southorn 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			10.41	10.01	1001	10.43	M m	60.07	10.77	1201	1001			64.03		14.47	14.51	1401
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
Company 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%
	LNT	- Alexandre de la constante de	66.00%	66.00%	66.00%	66.00%	66.00%	65.98%	62.64% 65.97%	63.45% 65.95%	65.94%	65.09%	65.91% 65.91%	65.91% 65.91%	65,91% 65,91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Alliant Energy Corporation Ameron Corporation	AEE		66.00% 64.00%	65.00% 63.00%	65.00%	65.00% 61.00%			65.97% 61.97%	65.95% 62.95%	63,94% 63,94%	65.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
American Electric Power Company, Inc.	AEP			63.00% 67.50%		64.50%	50.00%	60.98%	63,97%	62.95% 64,45%	64,94%	65.42%	65.91% 65.91%	65.91%	65,91%	65.91%	65,91%	
Black Hills Corporation	BKH		69.00%		66.00%	51.00%	63.00%	63.48%	55,97%	64,45% 58,45%	60.94%	65.42% 63.42%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
	CMS		51.00%	51.00%	51.00%	51.00% 61.00%	51.00%	53.48% 61.82%	55.97% 62.64%	58.45% 63.45%	60.94% 64.27%	65.09%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91%	65.91% 65.91%	65.91%
CMS Energy Corporation Dominion Resources, Inc.	D		61.00% 83,00%	61.00% 84.00%	61.00% 85.00%	86.00%	61.00% 87.00%	83,48%	52.64 % 79.97%	63.45% 76.45%	72.94%	69.42%	65.91%	65.91% 65.91%	65.91%	65.91%	65.91%	65.91%
Dominion Resources, inc. DTE Energy Company	DTE		56.00%		60.00%		87.00% 64.00%					65.59%		65.91% 65.91%	65.91%	65.91%	65.91%	65.91%
Dire Energy Company	DIE	200620000000	00.00%	50,00%	00.00%	02.00%	04.00%	64.32%	04.04%	04.90%	05.21%	00.09%	05.91%	00.8176	00.0176	00.91%	05.91%	00.8170

Duke Energy Corporation	DUK	And a second	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	ĒE		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%	66.5 9 %	65.91%	65.91%	65.91%	65.91%	65.91%	65.91%
Otter Tall 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%
Xcal Energy Inc.	XEL		62.00%	63.00%	64.00%	65.00%	66.00%	65.98%	65. <u>97%</u>	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)
			1,0,					1401	1	(00)	(00)				(99)	(01)	()	Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Valuo
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 Resources, 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 Station	\$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 State	\$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
Hawallan 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	S1.64	\$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]
sitveator Gasit Prova		initial	[00]	1001	101	1001	[03]	11.01	[71]	12	[[3]	[/4]	[/3]	110	[17]	110	[73]	001	
Сотралу	Ticker	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	\$2.15	\$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
Alilant 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.	AÉP	(\$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
Dominian Resources, 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
Hawalian 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
Pinnaclo 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 Goneral 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

Multi-Stage Growth Discounted Cash Flow Model 90 Day Averago Stock Prico High EPS Growth Rate Estimate in First Stage

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Inputs		1] Stock	[2] EPS	[3] Growth Ra	[4] to Estimati	<u>[5]</u>	[6] Long-Term	[7] 	[8] ayout Rati		[10] Iterative	[11] Solution	[12] Terminal	[13] Terminal				
0	.	-			Value	High			•					PEG				
Company ALLETE, Inc.	Ticker	Price \$77,72	Zacks 7.20%	First Call	Line	Growth	Growth	2017	2021	2027	Proof	IRR	P/E Ratio	Ratio				
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$77.72 \$43,28	7.20% 6.40%	5.00% 7.05%	5.00% 6.00%	7.20%	5.38%	63.00%	61.00%	65.91%	\$0.00	8.81%	20.26	3.77 3.98				
Ameron Corporation	AEE	\$60.87	7.00%	7.00%	6,00%	7.00%	5.38% 5.38%	66.00% 64.00%	66,00% 60,00%	65.91% 65.91%	\$0.00 \$0.00	8.62% 9.06%	21,43 18,87	3.55				
Amorican 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	9.57%	16.58	3.08				
Black Hills Corporation	BKH	\$64.26	4.90%	4.26%	7.50%	7.50%	5.38%	51.00%	51.00%	65.91%	\$0.00	8.82%	20.20	3.76				
CMS Energy Corporation	CMS	\$48.25	6.50%	7.44%	6.50%	7.44%	5,38%	61.00%	61,00%	65,91%	\$0.00	8.91%	19.67	3.66				
Dominion Resources, Inc.	D	\$80.26	5.60%	3.64%	6.50%	6.50%	5.38%	83.00%	87.00%	65.91%	\$0.00	9.11%	18.63	3.46				
DTE Energy Company	DTE	\$111.40	6.00%	4.91%	6.00%	6.00%	5.38%	56.00%	64.00%	65,91%	\$0.00	8.78%	20,41	3.80				
Duke Energy Corporation	DUK	\$87.07	4.00%	3.23%	4.50%	4.50%	5.38%	81.00%	79.00%	65.91%	\$0.00	8.55%	21.88	4.07				
El Paso Eloctric Company	EE	\$57.15	5.20%	5.30%	5.00%	5.30%	5.38%	50.00%	57.00%	65.91%	\$0.00	8.46%	22.57	4.20				
Hawalian Electric Industries, Inc.	HE	\$35.42	4.20%	4.50%	1.50%	4.50%	5.38%	77.00%	70.00%	65.91%	\$0.00	10.18%	14.47	2.69				
DACORP, Inc.	IDA	\$92.20	5.00%	4.00%	3.50%	5.00%	5.38%	54.00%	61,00%	65.91%	\$0.00	8.49%	22.29	4.15				
NorthWestern Corporation	NWE	\$59.96	1.50%	2.25%	4.50%	4.50%	5.38%	62.00%	62.00%	65.91%	\$0.00	9.41%	17.24	3.20				
OGE Energy Corp. Ottor Tail Corporation	OGE OTTR	\$35.55 \$44.86	4.30% NA	3.90% 5.20%	6.00% 7.00%	6.00% 7.00%	5.38% 5.38%	67.00% 72.00%	70,00% 58,00%	65.91% 65.91%	\$0.00 \$0.00	9.19% 8.37%	18.20 23.22	3.38 4.32				
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	8.79%	20.38	3.79				
PNM Resources, Inc.	PNM	\$42,64	5.50%	5.46% 6.05%	5.50% 7.50%	7.50%	5.38%	48.00%	57.00%	65.91%	\$0.00	8.67%	20.38	3.93				
Portland General Electric Company	POR	\$47.20	3.80%	4.00%	6.00%	6.00%	5.38%	48.00% 59.00%	57.00%	65.91%	\$0.00	8.93%	19.57	3.53				
Southorn Company	so	\$50.41	4.50%	2.33%	3.50%	4.50%	5.38%	75.00%	73.00%	65.91%	\$0.00	9.54%	16,68	3.10				
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	8.92%	19,59	3,64				
Xcol Energy Inc.	XEL	\$49.41	5.50%	NA	4,50%	5.50%	5.38%	62.00%	66.00%	65.91%	\$0.00	8.81%	20.27	3.77				
											Mean	8.95%						
											Max Min	10.18% 8.37%						
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 \$4.77	\$6.70	\$7.06
CMS Energy Corporation Dominion Resources, Inc.		\$1.98 \$3.44	\$2.13 \$3.66	\$2.29 \$3.90	\$2.46 \$4.16	\$2.64 \$4.43	\$2.83 \$4.71	\$3.04 \$5.01	\$3.24 \$5.32	\$3.45 \$5.63	\$3.66 \$5.96	\$3.87 \$6,29	\$4.07 \$6.63	\$4.29 \$6.98	\$4.53 \$7.36	\$7.76	\$5.02 \$8.17	\$5.30 \$8.61
DTE Energy Company	DTE	\$4,83	\$3.00 \$5.12	\$5.90 \$5.43	\$4.16 \$5.75	\$4.43 \$6.10	\$6.46	\$5.01 \$6.84	\$5.32 \$7,24	\$7.65	\$3,96 \$8,08	\$8.52	\$0.03 \$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
Hawailan 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 Tall 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 \$5.83	\$5.22
Southern Company WEC Energy Group, Inc.	SÓ WEC	\$2.83 \$2.96	\$2.96 \$3.14	\$3.09 \$3.33	\$3,23 \$3,53	\$3.37 \$3.74	\$3.53 \$3.96	\$3.69 \$4.19	\$3.87 \$4.44	\$4.06 \$4.69	\$4.26 \$4.95	\$4,49 \$5.22	\$4.73 \$5.50	\$4.98 \$5.80	\$5.25 \$6.11	\$5.53 \$6.44	\$5.63	\$6.15 \$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
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Projected Annual																		
Dividend Payout Ratio			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
	Tielect		2017	2019	2010	2000			0000	2024	2005	2020	0007	2029	2020	2020	2021	2020
Company ALLETE, Inc.	Ticker ALE		2017 63.00%	2018 62.50%	2019 62.00%	2020	2021 61.00%	2022 61.82%	2023	2024 63.45%	2025	2026 65.09%	2027	2028	2029 65.91%	2030	2031 65.91%	2032 65.91%
Alliant Energy Corporation		uligaet.	66.00%	66.00%	66,00%	66.00%	66.00%	65.98%	62.64%	65.95%	65.94%	65.92%	65.91%	65.91%	65.91%	65.91%	65.91%	65.91%
Amant Energy 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.	AEC		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 Resources, 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%
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Duke Energy Corporation	DUK	81.00%	80.50%	80.00%	79.50%	79.00%	76.82%	74.54%	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%
Hawailan Electric Industries, Inc.	HE SEARCH	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%
Southorn 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]
																		Terminal
Сотрапу	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
Amoron 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	вкн	\$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 Resources, 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	\$2.56	\$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
Pinnacio 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]	[7 <u>1]</u>	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
		Initial		-															
Сотралу	Ticker	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	\$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 Resources, 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
Hawalian 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 Enorgy Corp.	OGË	(\$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

Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Low EPS Growth Rote Estimate in First Stage

noute		[1]	121	[3]	[4]	161	tes.	(71)	101	101	14.01	(4.4)	401	14.03				
nputs		Stock	EPS	Growth Ra	يبع معاضا	[5] 0s	[6] Long-Term	<u>[7]</u>	[8] ayout Ratio	<u>[9]</u>	[10] Iterative S	[11] Solution	[12] Torminal	[13] Torminal				
Company	There	Prico	Zacks	First Call	Value Line	Low Growth					D	100	P/E Ratio	PEG Ratio				
ALLETE, Inc.	Tickor ALE	\$77.72	7.20%	5.00%	5.00%	5.00%	Growth 5.38%	2017 63.00%	2021 61,00%	2027 65.91%	Proof \$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%	23.43	4.36				
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	BKH	\$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 Resources, 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	EÊ	\$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				
Hawailan Electric Industries, Inc.	ΗE	\$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.	DA	\$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 Tall 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. Portiand General Electric Company	PNM POR	\$42.64 \$47.20	5.50% 3.80%	6.05% 4.00%	7.50% 6,00%	5.50%	5.38%	48.00%	57.00%	65.91%	\$0.00 \$0.00	8.26% 8.45%	24.08	4.48				
Southern Company	SO	\$47.20 \$50.41	3.80%	4.00%	6.00% 3.50%	3.80% 2.33%	5.38% 5.38%	59.00% 75.00%	57.00% 73.00%	65.91% 65.91%	\$0.00 \$0.00	8.45% 8.97%	22.64 19.35	4.21 3.60				
WEC Energy Group, Inc.	WEC	\$50.41 \$66.46	4.50% 5.40%	2.33% 5.27%	3.50% 6.00%	2.33% 5.27%	5.38% 5.38%	75.00% 66.00%	73.00% 67.00%	65.91% 65.91%	\$0.00	8.97% 8.76%	19.35	3.82				
Xcel Energy Inc.	XEL	\$66.46 \$49.41	5.40%	5.27% NA	4.50%	4.50%	5.38%	62.00%	66.00%	65.91%	\$0.00	8.58%	20.56	4.03				
neer Egeligy inte	AEL	@+0.+1	0.00%		···	1.00%	0.0076	02.00 %	30.00 %	00.0170	Moan	8.54%	21.07	4,00				
											Max	9.29%						
Projected Annual											Min	8.03%						
Earnings per Sharo		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Company	Tickor	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
Ameron 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	\$4.45	\$4.70	\$4.96
Dominion Resources, Inc.	Þ	\$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
Hawalian 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 \$6.00	\$7.17	\$7.56	\$7.96
NorthWestern Corporation	NWE OGE	\$3.39 \$1.69	\$3.44 \$1.76	\$3.49 \$1.82	\$3.54 \$1.90	\$3.60 \$1.97	\$3.65 \$2.05	\$3.73 \$2.13	\$3,83 \$2,22	\$3.97 \$2.33	\$4.13 \$2.44	\$4.32 \$2.57	\$4.56 \$2.71	\$4.80 \$2.85	\$5.06 \$3.00	\$5.33 \$3.17	\$5.62 \$3.34	\$5.92 \$3.52
OGE Energy Corp. Otter Tall Corporation	OGE	\$1.69 \$1.60	\$1.75 \$1.68	\$1.82 \$1,77	\$1.90 \$1.86	\$1.97 \$1.96	\$2.05 \$2.06	\$2.13	\$2.22 \$2.28	\$2.33 \$2.40	\$2.44 \$2.53	\$2.57 \$2.67	\$2.81	\$2.85 \$2.96	\$3.00 \$3.12	\$3.17	\$3.34 \$3.47	\$3.52 \$3.65
Pinnacio West Capital Corporation	PNW	\$3.95	\$1.68 \$4.08	\$4.21	\$4,34	\$1.96 \$4.48	\$4,62	\$4.79	\$2.20 \$4,98	\$2,40 \$5,19	\$5.43	\$5.70	\$6.01	\$6.33	\$6.67	\$7.03	\$7.41	\$3.85
PNM Resources, Inc.	PNM	\$1.65	\$4.08 \$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
Xcol 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			TO 41	10.01	1001	10 43	(25)	1000	(07)	1001	1001	110	1443	(40)	1400	14.41	1457	(40)
			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	[45]	[46]
Dividend Payout Ratio	Ticker		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Dividend Payout Ratio Company ALLETE, Inc.	ALE		2017 63,00%	2018 62.50%	2019 62.00%	2020 61.50%	2021 61.00%	2022	2023 62.64%	2024 63.45%	2025 64.27%	2026 65.09%	2027 65.91%	2028 65.91%	2029 65.91%	2030 65.91%	2031 65.91%	2032 65.91%
Dividend Payout Ratio Company ALLETE, inc. Allant Energy Corporation	ALE LNT		2017 63.00% 66.00%	2018 62.50% 66.00%	2019 62.00% 66.00%	2020 61.50% 66.00%	2021 61.00% 66.00%	2022 61.82% 65.98%	2023 62.64% 65.97%	2024 63.45% 65.95%	2025 64.27% 65.94%	2026 65.09% 65.92%	2027 65.91% 65.91%	2028 65.91% 65.91%	2029 65.91% 65.91%	2030 65.91% 65.91%	2031 65.91% 65.91%	2032 65.91% 65.91%
Dividend Payout Ratio Company ALLETE, inc. Alliant Energy Corporation Amoren Corporation	ALE LNT AEE		2017 63.00% 66.00% 64.00%	2018 62.50% 66.00% 63.00%	2019 62.00% 66.00% 62.00%	2020 61.50% 66.00% 61.00%	2021 61.00% 66.00% 60.00%	2022 61.82% 65.98% 60.98%	2023 62.64% 65.97% 61.97%	2024 63.45% 65.95% 62.95%	2025 64.27% 65.94% 63.94%	2026 65,09% 65.92% 64.92%	2027 65.91% 65.91% 65.91%	2028 65.91% 65.91% 65.91%	2029 65.91% 65.91% 65.91%	2030 65.91% 65.91% 65.91%	2031 65.91% 65.91% 65.91%	2032 65.91% 65.91% 65.91%
Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation Amoren Corporation American Electric Power Company, Inc.	ALË LNT AEE AEP		2017 63.00% 66.00% 64.00% 69.00%	2018 62.50% 66.00% 63.00% 67.50%	2019 62.00% 66.00% 62.00% 66.00%	2020 61.50% 66.00% 61.00% 64.50%	2021 61.00% 66.00% 60.00% 63.00%	2022 61.82% 65.98% 60.98% 63.48%	2023 62.64% 65.97% 61.97% 63.97%	2024 63.45% 65.95% 62.95% 64.45%	2025 64.27% 65.94% 63.94% 64.94%	2026 65.09% 65.92% 64.92% 65.42%	2027 65.91% 65.91% 65.91% 65.91%	2028 65.91% 65.91% 65.91% 65.91%	2029 65.91% 65.91% 65.91% 65.91%	2030 65.91% 65.91% 65.91% 65.91%	2031 65.91% 65.91% 65.91% 65.91%	2032 65.91% 65.91% 65.91% 65.91%
Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation	ALE LNT AEE AEP BKH		2017 63.00% 66.00% 64.00% 69.00% 51.00%	2018 62.50% 66.00% 63.00% 67.50% 51.00%	2019 62.00% 66.00% 62.00% 66.00% 51.00%	2020 61.50% 66.00% 61.00% 64.50% 51.00%	2021 61.00% 66.00% 60.00% 63.00% 51.00%	2022 61.82% 65.98% 60.98% 63.48% 53.48%	2023 62.64% 65.97% 61.97% 63.97% 55.97%	2024 63.45% 65.95% 62.95% 64.45% 58.45%	2025 64.27% 65.94% 63.94% 64.94% 60.94%	2026 65.09% 65.92% 64.92% 65.42% 63.42%	2027 65.91% 65.91% 65.91% 65.91% 65.91%	2028 65.91% 65.91% 65.91% 65.91% 65.91%	2029 65.91% 65.91% 65.91% 65.91% 65.91%	2030 65.91% 65.91% 65.91% 65.91% 65.91%	2031 65.91% 65.91% 65.91% 65.91% 65.91%	2032 65.91% 65.91% 65.91% 65.91% 65.91%
Dividend Payout Ratio Company ALLETE, Inc. Allant Energy Corporation Amoren Corporation Amoren Corporation Corporation Black Hills Corporation CMS Energy Corporation	ALE LNT AEE AEP BKH CMS		2017 63.00% 66.00% 64.00% 69.00% 51.00% 61.00%	2018 62.50% 66.00% 63.00% 67.50% 51.00% 61.00%	2019 62.00% 66.00% 62.00% 66.00% 51.00% 61.00%	2020 61.50% 66.00% 61.00% 64.50% 51.00% 61.00%	2021 61.00% 66.00% 60.00% 63.00% 51.00% 61.00%	2022 61.82% 65.98% 60.98% 63.48% 53.48% 61.82%	2023 62.64% 65.97% 61.97% 63.97% 55.97% 62.64%	2024 63.45% 65.95% 62.95% 64.45% 58.45% 63.45%	2025 64.27% 65.94% 63.94% 64.94% 60.94% 64.27%	2026 65.09% 65.92% 64.92% 65.42% 63.42% 65.09%	2027 65.91% 65.91% 65.91% 65.91% 65.91%	2028 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	2029 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	2030 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	2031 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	2032 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%
Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation	ALE LNT AEE AEP BKH		2017 63.00% 66.00% 64.00% 69.00% 51.00%	2018 62.50% 66.00% 63.00% 67.50% 51.00%	2019 62.00% 66.00% 62.00% 66.00% 51.00%	2020 61.50% 66.00% 61.00% 64.50% 51.00%	2021 61.00% 66.00% 60.00% 63.00% 51.00%	2022 61.82% 65.98% 60.98% 63.48% 53.48%	2023 62.64% 65.97% 61.97% 63.97% 55.97%	2024 63.45% 65.95% 62.95% 64.45% 58.45%	2025 64.27% 65.94% 63.94% 64.94% 60.94%	2026 65.09% 65.92% 64.92% 65.42% 63.42%	2027 65.91% 65.91% 65.91% 65.91% 65.91%	2028 65.91% 65.91% 65.91% 65.91% 65.91%	2029 65.91% 65.91% 65.91% 65.91% 65.91%	2030 65.91% 65.91% 65.91% 65.91% 65.91%	2031 65.91% 65.91% 65.91% 65.91% 65.91%	2032 65.91% 65.91% 65.91% 65.91% 65.91%

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Duke Energy Corporation	DUK severesett	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 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 SEASON	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%
Ottor 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	56.00%	66.25%	66.50%	66.75%	67.00%	66.82%	66.64%	66.45%	66.27%	66.09%	65.91%	65.91%	85.91%	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]
		······	(40)		1001			1301	[34]		(30)	131	1001	1001	[00]			Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	\$4.65	\$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
Ameron 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
Amorican 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	\$2,05	\$2.20	\$2,36	\$2.51	\$2.65	\$2.79	\$2.94	\$3.10	\$3.27	\$103.66
Dominion Resources, 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 (States)	\$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
Hawalian Electric Industries, Inc.	HE SARAS	\$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
Ottor Tall 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 Genoral 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											-	6m - 15	-				(70)	(0.0)	10.43
Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
_	<u> </u>	Initial												0 m = m =	- 10 0 10 0		-		
Company	Ticker	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	\$2.13	\$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
Allant 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
Ameron 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 Resources, 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.	DA	(\$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 Tall 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 Rosources, 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
Xcol 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

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth Ra	to Estimat Value	os	Long-Term	P	ayout Ratio)	Iterative	Solution	Terminal	Terminal PEG				
Company	Ticker	Prico	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				
Allant 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	AËE	\$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 Resources, 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 EË	\$85.84 \$54.81	4.00% 5.20%	3.23% 5.30%	4.50% 5.00%	3.91% 5.17%	5.38% 5.38%	81,00%	79.00%	65.91% 65.91%	\$0.00 \$0.00	8.47% 8.56%	22.45 21.85	4.17 4.06				
El Paso Electric Company Hawalian Electric Industrios, Inc.	HE	\$34.81 \$34.21	5.20% 4.20%	5.30% 4.50%	1.50%	3.40%	5.38%	50.00% 77.00%	57.00% 70.00%	65.91% 65.91%	\$0.00 \$0.00	8.56% 10.00%	∡1.85 15.01	4.06				
DACORP, Inc.	IDA	\$89.17	4.20%	4,50%	3.50%	3.40% 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 Tall Corporation	OTTR	\$42.38	4.30 % 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				
Xcal 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_				
							· · · · · ·				Меал	8.81%						
											Max	10.00%						
											Min	8.30%						
Projected Annual				<i>(</i>) ()				(a.a.)		-001	(00)	10 40	10.51	10.01	1071	TO DI	1901	10.01
Earnings por 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
Amorican 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	вкн	\$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 Resources, 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 \$3.98	\$5.94	\$6.26	\$6.60 \$4.65	\$6.95 \$4.90	\$7.33 \$5.17	\$7.72 \$5.44
El Paso Electric Company	EE HE	\$2.39 \$2.29	\$2.51	\$2.64	\$2.78 \$2.53	\$2.92 \$2.62	\$3.07	\$3.23	\$3,40 \$2,92	\$3.58 \$3.05	\$3,77 \$3,19	\$3.98 \$3.36	\$4.19 \$3,54	\$4.41 \$3.73	\$4.00 \$3,93	\$4.90 \$4.14	\$4.36	\$3.44 \$4.59
Hawallan Electric Industries, Inc.	IDA		\$2.37	\$2,45	\$2.53 \$4,45	\$2.62 \$4,64	\$2.71 \$4.83	\$2.81		\$3.05 \$5.53	\$3.19 \$5.80	33.36 \$6.10	\$3.54 \$6.43	\$3.73 \$6.77	\$3,93 \$7,14	\$7.52	\$7.93	\$4.59 \$8.35
IDACORP, Inc.	NWE	\$3,94	\$4.10	\$4.28	\$4.45 \$3.68	\$4.64 \$3.78	\$4.83 \$3.88	\$5.04	\$5.27 \$4.15	\$5.55 \$4.32	\$5.60 \$4.51	\$4.74	\$6.43 \$4.99	\$5.26	\$7.14 \$5.54	\$7.52	\$6.16	\$6.49
NorthWestern Corporation OGE Energy Corp.	OGE	\$3.39 \$1.69	\$3.48 \$1.77	\$3.58 \$1,85	\$3.68 \$1.94	\$3.78 \$2.03	\$3.88 \$2.13	\$4.01 \$2.23	\$4.15 \$2.34	\$4.32 \$2.46	\$4.51 \$2.59	\$4.74 \$2.73	\$4.99 \$2.87	\$3.03	\$5.54 \$3.19	\$3.36	\$3.54	\$3.73
Otter Tail Corporation	OGE	\$1.69	\$1.77	\$1,85 \$1,80	\$1.94 \$1.91	\$2.03 \$2.03	\$2.13 \$2.15	\$2.23	\$2.34 \$2,41	\$2.46 \$2.55	\$2.59 \$2.70	\$2.73 \$2.84	\$2.07 \$3.00	\$3.03 \$3.16	\$3,33	\$3.50 \$3.51	\$3.54 \$3.70	\$3.73 \$3.89
Pinnacie West Capital Corporation				\$4.33	\$4.54	\$4.75	\$4.97	\$2.20	\$5.47	\$2.55 \$5,75	\$6.05	\$6.36	\$6.71	\$7.07	\$7.45	\$7.85	\$8.27	\$8.71
PNM Resources, Inc.	PN/M	C2 0C					\$2.24		\$2,53	\$2.68	\$2.83	\$2.98	\$3.15	\$3.31	\$3,49	\$3.68	\$3.88	\$4.09
	PNW	\$3.95 \$1.65	\$4.14 \$1.75		\$1.98										ww			
	PNM	\$1.65	\$1.75	\$1.87	\$1.98 \$2.47	\$2.11 \$2.59		\$2.38 \$2.83				\$3.45	\$3.64	\$3.83	\$4.04	\$4,25	\$4.48	
Portland General Electric Company	PNM POR	\$1.65 \$2.16	\$1.75 \$2.26	\$1.87 \$2,36	\$2.47	\$2.59	\$2,70	\$2.83	\$2.97	\$3.12	\$3.28	\$3.45 \$4.16	\$3.64 \$4.38	\$3.83 \$4.52	\$4.04 \$4.87	\$4.25 \$5.13	\$4.48 \$5.40	\$4.72
Portland General Electric Company Southern Company	PNM POR SO	\$1.65 \$2,16 \$2.83	\$1.75 \$2.26 \$2.93	\$1.87 \$2,36 \$3.03	\$2.47 \$3.13	\$2.59 \$3.24	\$2,70 \$3.35	\$2.83 \$3.48	\$2.97 \$3.62	\$3.12 \$3.78	\$3.28 \$3.96	\$4.15	\$4.38	\$4.52	\$4.87	\$5.13	\$5.40	\$4.72 \$5.70
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc.	PNM POR SO WEC	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12	\$1.87 \$2,36 \$3.03 \$3.30	\$2.47 \$3.13 \$3.48	\$2.59 \$3.24 \$3.67	\$2,70 \$3.35 \$3.88	\$2.83 \$3.48 \$4.09	\$2.97 \$3.62 \$4.32	\$3.12 \$3.78 \$4.55	\$3.28 \$3.96 \$4.80	\$4.15 \$5.06	\$4.38 \$5.33	\$4.52 \$5.62	\$4,87 \$5,92	\$5.13 \$6.24	\$5.40 \$6.58	\$4,72 \$5.70 \$6.93
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc.	PNM POR SO	\$1.65 \$2,16 \$2.83	\$1.75 \$2.26 \$2.93	\$1.87 \$2,36 \$3.03	\$2.47 \$3.13	\$2.59 \$3.24	\$2,70 \$3.35	\$2.83 \$3.48	\$2.97 \$3.62	\$3.12 \$3.78	\$3.28 \$3.96	\$4.15	\$4.38	\$4.52	\$4.87	\$5.13	\$5.40	\$4.72 \$5.70
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc.	PNM POR SO WEC	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12	\$1.87 \$2,36 \$3.03 \$3.30	\$2.47 \$3.13 \$3.48	\$2.59 \$3.24 \$3.67	\$2,70 \$3.35 \$3.88	\$2.83 \$3.48 \$4.09	\$2.97 \$3.62 \$4.32	\$3.12 \$3.78 \$4.55	\$3.28 \$3.96 \$4.80	\$4.15 \$5.06	\$4.38 \$5.33	\$4.52 \$5.62	\$4,87 \$5,92	\$5.13 \$6.24	\$5.40 \$6.58	\$4,72 \$5.70 \$6.93
Portland Gonoral Electric Company Southern Company WEC Enorgy Group, Inc. Xcei Enorgy Inc. Projectod Annual	PNM POR SO WEC	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32	\$1.87 \$2,36 \$3.03 \$3.30 \$2.44	\$2.47 \$3.13 \$3.48 \$2.56	\$2.59 \$3.24 \$3.67 \$2.69	\$2,70 \$3.35 \$3.88 \$2.82	\$2.83 \$3.48 \$4.09 \$2.96	\$2.97 \$3.62 \$4.32 \$3.12	\$3.12 \$3.78 \$4.55 \$3.28	\$3.28 \$3.96 \$4.80 \$3.45	\$4.16 \$5.06 \$3.63	\$4.38 \$5.33 \$3.83	\$4.62 \$5.62 \$4.03	\$4.87 \$5.92 \$4.25	\$5.13 \$6.24 <u>\$4.48</u>	\$5.40 \$6.58 \$4.72	\$4,72 \$5,70 \$6,93 \$4,97
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel, Energy Inc.	PNM POR SO WEC	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12	\$1.87 \$2,36 \$3.03 \$3.30	\$2.47 \$3.13 \$3.48	\$2.59 \$3.24 \$3.67	\$2,70 \$3.35 \$3.88	\$2.83 \$3.48 \$4.09	\$2.97 \$3.62 \$4.32	\$3.12 \$3.78 \$4.55	\$3.28 \$3.96 \$4.80	\$4.15 \$5.06	\$4.38 \$5.33	\$4.52 \$5.62	\$4,87 \$5,92	\$5.13 \$6.24	\$5.40 \$6.58	\$4,72 \$5.70 \$6.93
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel, Energy Inc. Projected Annual Dividend Payout Ratio	PNM POR SO WEC XEL	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31]	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32]	\$2.47 \$3.13 \$3.48 \$2.56 [33]	\$2.59 \$3.24 \$3.67 \$2.69 [34]	\$2,70 \$3.35 \$3.88 \$2.82 [35]	\$2.83 \$3.48 \$4.09 \$2.96 [36]	\$2.97 \$3.62 \$4.32 \$3.12 [37]	\$3.12 \$3.78 \$4.55 \$3.28 [38]	\$3.28 \$3.96 \$4.80 \$3.45 [39]	\$4.16 \$5.06 \$3.63 [40]	\$4.38 \$5.33 \$3.83 [41]	\$4.52 \$5.62 \$4.03 [42]	\$4.87 \$5.92 \$4.25 [43]	\$5.13 \$6.24 \$4.48 [44]	\$5.40 \$6.58 \$4.72	\$4.72 \$5.70 \$6.93 \$4.97 [46]
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projected Annual Dividend Payout Ratio Company	PNM POR SO WEC	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019	\$2.59 \$3.24 \$3.67 \$2.69	\$2,70 \$3.35 \$3.88 \$2.82	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022	\$2.97 \$3.62 \$4.32 \$3.12	\$3.12 \$3.78 \$4.55 \$3.28	\$3.28 \$3.96 \$4.80 \$3.45	\$4.16 \$5.06 \$3.63	\$4.38 \$5.33 \$3.83	\$4.62 \$5.62 \$4.03	\$4.87 \$5.92 \$4.25	\$5.13 \$6.24 <u>\$4.48</u>	\$5.40 \$6.58 <u>\$4.72</u> [45]	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projectod Annual Dividend Payout Ratio Company ALLETE, Inc.	PNM POR SO WEC XEL Tickor	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00%	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018 62.50%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025	\$4.16 \$5.06 \$3.63 [40] 2026	\$4.38 \$5.33 \$3.83 [41] 2027	\$4.52 \$5.62 \$4.03 [42] 2028	\$4.87 \$5.92 \$4.25 [43] 2029	\$5.13 \$6.24 \$4.48 [44] 2030	\$5.40 \$6.58 \$4.72 [45] 2031	\$4.72 \$5.70 \$6.93 \$4.97 [45] 2032 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projectod Annual Dividend Payout Ratio Company	PNM POR SO WEC XEL Tickor	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018 62.50% 66.00%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 53.45%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 64.27%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91%	\$4.52 \$5.62 \$4.03 [42] 2028 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032 65.91% 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projected Annual Dividend Payout Ratio Compony ALLETE, Inc. Allant Energy Corporation Ameron Corporation	PNM POR SO WEC XEL Tickor ALE LNT	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00% 66.00% 64.00%	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018 62.50% 66.00% 63.00%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00% 66.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50% 66.00%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00% 66.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82% 65.98%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64% 65.97%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 63.45% 65.95%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 64.27% 65.94%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09% 65.92%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91% 65.91%	\$4.62 \$5.62 \$4.03 [42] 2028 65.91% 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91% 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91% 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91% 55.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032 65.91% 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projectod Annual Dividend Payout Ratio Company ALLETE, Inc. Allant Energy Corporation American Electric Power Company, Inc.	PNM POR SO WEC XEL <u>Tickor</u> ALE LNT AEE	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00% 66.00% 64.00% 69.00%	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018 62.50% 66.00%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00% 66.00% 62.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50% 66.00% 61.00%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00% 66.00% 50.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82% 65.98% 60.98%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64% 65.97% 61.97%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 63.45% 65.95% 62.95%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 64.27% 65.94% 63.94%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09% 65.92% 64.92%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91% 65.91% 65.91%	\$4.62 \$5.62 \$4.03 [42] 2028 65.91% 65.91% 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91% 65.91% 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91% 65.91% 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91% 65.91% 65.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032 65.91% 65.91% 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projectod Annual Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation	PNM POR SO WEC XEL Tickor ALE LNT AEE AEP	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00% 66.00% 64.00%	\$1.87 \$2.36 \$3.03 \$2.44 [32] 2018 62.50% 63.00% 67.50%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00% 62.00% 62.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50% 61.00% 64.50%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00% 66.00% 60.00% 63.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82% 65.98% 60.98% 63.48%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64% 61.97% 63.97%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 63.45% 65.95% 64.45% 58.45%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 84.27% 65.94% 63.94% 64.94%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09% 65.92% 64.92% 65.42%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91% 65.91% 65.91% 65.91%	\$4.62 \$5.62 \$4.03 [42] 2028 65.91% 65.91% 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91% 65.91% 65.91% 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91% 65.91% 65.91% 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91% 65.91% 65.91% 65.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032 65.91% 65.91% 65.91% 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projected Annual Dividend Payout Ratio Compony ALLETE, Inc. Allant Energy Corporation Ameron Corporation Ameron Corporation Ameron Corporation Black Hills Corporation Black Hills Corporation	PNM POR SO WEC XEL <u>Tickor</u> ALE LNT AEE AEP BKH	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00% 66.00% 64.00% 69.00% 51.00% 61.00%	\$1.87 \$2.36 \$3.03 \$2.30 \$2.44 [32] 2018 62.50% 63.00% 51.00%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00% 66.00% 66.00% 51.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50% 66.00% 61.00% 64.50% 51.00%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00% 66.00% 63.00% 51.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82% 65.98% 60.98% 63.48% 53.48%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64% 65.97% 63.97% 55.97% 55.97%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 53.45% 65.95% 62.95% 64.45%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 64.27% 65.94% 63.94% 64.94% 60.94%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09% 64.92% 65.42% 63.42%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.62 \$5.62 \$4.03 [42] 2028 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91% 65.91% 65.91% 65.91% 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91% 65.91% 65.91% 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46] 2032 65.91% 65.91% 65.91% 65.91%
Portland Goneral Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation	PNM POR SO WEC XEL Tickor ALE LNT AEE AEP BKH CMS	\$1.65 \$2.16 \$2.83 \$2.96	\$1.75 \$2.26 \$2.93 \$3.12 \$2.32 [31] 2017 63.00% 66.00% 64.00% 69.00% 51.00%	\$1.87 \$2.36 \$3.03 \$3.30 \$2.44 [32] 2018 62.50% 66.00% 67.50% 63.00% 61.00% 84.00%	\$2.47 \$3.13 \$3.48 \$2.56 [33] 2019 62.00% 66.00% 66.00% 51.00%	\$2.59 \$3.24 \$3.67 \$2.69 [34] 2020 61.50% 66.00% 61.00% 64.50% 61.00% 64.50% 61.00%	\$2.70 \$3.35 \$3.88 \$2.82 [35] 2021 61.00% 66.00% 60.00% 60.00% 51.00% 61.00%	\$2.83 \$3.48 \$4.09 \$2.96 [36] 2022 61.82% 65.98% 60.98% 63.48% 53.48% 53.48%	\$2.97 \$3.62 \$4.32 \$3.12 [37] 2023 62.64% 65.97% 63.97% 55.97%	\$3.12 \$3.78 \$4.55 \$3.28 [38] 2024 63.45% 65.95% 62.95% 64.45% 53.45%	\$3.28 \$3.96 \$4.80 \$3.45 [39] 2025 64.27% 65.94% 63.94% 63.94% 64.94% 60.94% 60.94%	\$4.16 \$5.06 \$3.63 [40] 2026 65.09% 65.92% 64.92% 65.42% 65.42% 65.42% 65.09%	\$4.38 \$5.33 \$3.83 [41] 2027 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.62 \$5.62 \$4.03 [42] 2028 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.87 \$5.92 \$4.25 [43] 2029 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	\$5.13 \$6.24 \$4.48 [44] 2030 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	\$5.40 \$6.58 \$4.72 [45] 2031 65.91% 65.91% 65.91% 65.91% 65.91%	\$4.72 \$5.70 \$6.93 \$4.97 [46]

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Duke Energy Corporation	DUK	81.0	% 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	50.0	% 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%
Hawallan Electric Industries, Inc.	ME	77.0	% 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 👘	54.0	% 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	62.0	% 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	67.0	% 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%
Ottor Tail Corporation	OTTR	72,0	% 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%	55.91%	65.91%
Pinnacle West Capital Corporation	PNW	63.0	% 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	48.0	% 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	59.0	% 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	75.0	% 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	66.0	% 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	62.0)% <u>63.00%</u>	64. <u>00%</u>	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]
0	-				.	.												Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	вкн	\$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 Rosources, 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 (53.856)	\$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
Hawallan Electric Industries, Inc.	HE CONSTR	\$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 Tall 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
Pinnacie 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		\$1,28	\$1.39	\$1,52		\$3.55 \$1.78	\$1.92			\$2.30	\$2.43	\$2.56		\$85.86
					\$1.16				\$1.64			\$2.07	\$2.18				\$2.69	
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]
		Initial		_															
Сотралу	Tickor	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	\$2.15	\$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 Pewer 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	вкн	(\$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 Resources, 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
Hawalian 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 Enorgy 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

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price High EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	(5)	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth R:		05	Long-Term	P	ayout Rati		Iterative	Solution	Terminal	Terminal				
Company	Tiekor	Dulas	Zacks	First Call	Value Line	High Growth	C	0017	0004	0007	0	100		PEG				
Company ALLETE, Inc.	Ticker ALE	Price \$74.84	7.20%	5.00%	5.00%	7,20%	Growth 5.38%	2017	2021 61.00%	2027	Proof \$0.00	IRR 8.94%	P/E Ratio 19.52	Ratio 3.63				
Alliant Energy Corporation	LNT	\$41.99	6.40%	7.05%	6.00%	7.05%	5.38%	66.00%	66.00%	65.91%	\$0.00	8.72%	20.79	3.86				
Ameren Corporation	AEE	\$58.43	7.00%	7.00%	6.00%	7.00%	5.38%	64.00%	60.00%	65.91%	\$0.00	9.21%	18.11	3.37				
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	9.69%	16.10	2.99				
Black Hills Corporation	BKH	\$66.70	4.90%	4.26%	7,50%	7.50%	5.38%	51.00%	51,00%	65.91%	\$0.00	8.70%	20.94	3.89				
CMS Energy Corporation	CMS	\$47.39	6.50%	7.44%	6.50%	7.44%	5.38%	61.00%	61.00%	65.91%	\$0.00	8.97%	19.33	3.59				
Dominion Resources, Inc.	D	\$79.20	5.60%	3.64%	6.50%	6.50%	5,38%	83.00%	87.00%	65.91%	\$0.00	9.16%	18.37	3.42				
DTE Energy Company Duke Energy Corporation	DTE DUK	\$109.30 \$85.84	6.00% 4.00%	4.91% 3.23%	6.00% 4.50%	6.00% 4.50%	5.38% 5.38%	56.00% 81.00%	64.00% 79.00%	65.91%	\$0.00	8.85% 8.60%	20.03	3.72				
El Paso Electric Company	EE	\$55.84 \$54.81	4.00% 5.20%	5.30%	4.50%	4.30% 5.30%	5.38%	50.00%	57.00%	65.91% 65.91%	\$0.00 \$0.00	8.59%	21.55 21.65	4.01 4.03				
Hawailan Electric Industries, Inc.	HE	\$34.21	4.20%	4.50%	1.50%	4.50%	5.38%	77.00%	70.00%	65.91%	\$0.00	10.36%	13.95	2.59				
IDACORP, Inc.	ЮA	\$89.17	5.00%	4.00%	3.50%	5.00%	5.38%	54.00%	61.00%	65.91%	\$0.00	8.60%	21.56	4.01				
NorthWestern Corporation	NWE	\$60.36	1.50%	2.25%	4.50%	4.50%	5.38%	62.00%	62.00%	65.91%	\$0.00	9.38%	17.36	3.23				
OGE Energy Corp.	OGE	\$35.34	4.30%	3.90%	6.00%	6.00%	5.38%	67.00%	70.00%	65.91%	\$0.00	9.22%	18.09	3.36				
Ottor Tall Corporation	OTTR	\$42.38	NA	5.20%	7.00%	7.00%	5.38%	72.00%	58.00%	65.91%	\$0.00	8.54%	21.94	4.08				
Pinnacle Wost Capital Corporation	PNW	\$87.50	3.20%	5.46%	5.50%	5.50%	5.38%	63.00%	63.00%	65.91%	\$0.00	8.82%	20.19	3.75				
PNM Resources, Inc.	PNM	\$40.68	5.50%	6.05%	7.50%	7.50%	5.38%	48.00%	57.00%	65.91%	\$0.00	8.82%	20.18	3.75				
Portland General Electric Company Southern Company	POR SO	\$46.57 \$49.86	3.80% 4.50%	4.00% 2.33%	6.00% 3.50%	6.00% 4.50%	5.38% 5.38%	59.00%	57.00%	65.91% 65.91%	\$0.00	8.97% 9.59%	19.32	3.59 3.07				
WEC Energy Group, Inc.	WEC	\$49.80 \$64.40	4.50% 5,40%	2.33% 5.27%	3.50% 6.00%	4.50%	5.38%	75.00% 66.00%	73.00% 67.00%	65.91%	\$0.00 \$0.00	9.59%	16.49 18.97	3.53				
Xcol Energy Inc.	XEL	\$48.05	5.50%	NA	4.50%	5.50%	5.38%	62.00%	66.00%	65.91%	\$0.00	8.90%	19.70	3.66				
		0.00	0.00 /0		4.0070	0.0075	5.5576	52.0070	00.0070	00.0176	Moan	9.03%	10.70	0.00				
											Max	10.36%						
											Min	8.54%						
Projected Annual																		
Earnings per Share	·····	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Сотрапу	Tickor	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
Allant 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
Amaron 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 Resources, 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 Enorgy Company	DTE	\$4,83 \$3,71	\$5.12	\$5.43 \$4.05	\$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
Duko Energy Corporation El Paso Electric Company	DUK	\$2.39	\$3.88 \$2.52	\$2.65	\$4.23 \$2.79	\$4.42 \$2.94	\$4.62 \$3.09	\$4.84 \$3.26	\$5.07 \$3.43	\$5.32 \$3.62	\$5.59 \$3.81	\$5.88 \$4.01	\$6.20 \$4.23	\$6.53 \$4,46	\$6.88 \$4.70	\$7.26 \$4.95	\$7,65 \$5,21	\$8.06 \$5.50
Hawaiian Electric Industries, Inc.	HE	\$2.29	\$2.32	\$2.50	\$2.61	\$2.94	\$2.85	\$2,99	\$3,43 \$3,13	\$3.02 \$3.28	\$3.45	\$3.63	\$3.83	\$4.40 \$4.03	\$4.25	\$4.48	\$3.21	\$5.50 \$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 Tall Corporation	אזדס	\$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
Pinnacio 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 POR	\$1.65	\$1.77 52.20	\$1.91 \$2.43	\$2.05 \$2.57	\$2.20 \$2.73	\$2.37	\$2.54	\$2.71	\$2.89	\$3,06	\$3.24 \$3.81	\$3.41	\$3.59	\$3.79 \$4.46	\$3.99 \$4.70	\$4.21	\$4.43
Portland General Electric Company Southern Company	SO	\$2.16 \$2.83	\$2.29 \$2.96	\$2.43 \$3.09	\$2.57 \$3.23	\$2.73 \$3.37	\$2.89 \$3.53	\$3.06 \$3.69	\$3.24 \$3.87	\$3.42 \$4.06	\$3.61 \$4,26	\$4,49	\$4.02 \$4.73	\$4.23 \$4.98	\$5.25	\$4.70	\$4,95 \$5,83	\$5.22 \$6.15
WEC Energy Group, Inc.	WEC	\$2.96	\$3.14	\$3.33	\$3,53	\$3.74	\$3.96	\$4.19	\$3.87 \$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	\$4,54	\$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	Theless		0047	0040	0040	0000	0004	0000	0000		0005	0000	0007	0000	0000	0000		0000
Company ALLETE, Inc.	Ticker ALE	····	2017 63.00%	2018 62.50%	2019 62.00%	2020	2021 61.00%	2022	2023	2024 63.45%	2025	2026 65.09%	2027 65.91%	2028	2029 65.91%	2030 65.91%	2031 65.91%	2032 65.91%
Aller E. Inc. Allant Energy Corporation		gilleagel.	65.00%	66.00%	62.00% 66.00%	66.00%	66.00%	61.82% 65,98%	65.97%	63.45% 65.95%	64.27% 65.94%	65.09% 65.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	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	вкн		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%	85.91%	65.91%	65.91%	65.91%
Dominion Resources, Inc.	D		83.00%	84,00%	85.00%	85.00%	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	- Section 200	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%

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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 ARABA	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 NERGER	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 Tall 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 Wost 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%
Xcol 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]
Сотралу	Tickor	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Terminal Valuo
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		\$1.17	\$1.25	\$1.34	\$2.05 \$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
Ameron 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	\$3.37 \$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	\$1.44	\$1.35	\$1.50	\$1.61	\$1.93	\$2.10	\$2.42 \$2.03	\$2.69 \$2.19	\$2.35	\$2.52	\$3.50 \$2,69	\$2.83	\$2,98	\$4.15 \$3.14	\$3,31	\$3.49	\$102.34
Dominion Resources, Inc.		\$3.04	\$3.28		\$3.81			\$2.03 \$4.25	\$4,31	\$4.35	\$4.37	\$2.69 \$4.37	\$4.60	\$4.85	\$5.14	\$5.39	\$5.68	\$158.22
	DTE			\$3.53		\$4.10	\$4.18			34.35 \$5.27	\$5.59		\$6.24	\$6.57	\$5.93	\$0.38 \$7,30	\$7.69	\$233.75
DTE Energy Company		\$2.87	\$3.15	\$3.45	\$3.78	\$4.14	\$4.40	\$4.68	\$4.97			\$5.92			\$6,93 \$4,78			\$173.65
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		\$5.04	\$5.31	
El Paso Electric Company	EE SEAS	\$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
Hawalian 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 Tall 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
Pinnacie 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]
		Initial						_											
Company	Tickor	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	\$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 Resources, 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
Hawailon 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
Pinnacio 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

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth Ra			Long-Term	P	ayout Rati	0	Itorativo :	Solution	Terminal	Terminal				
Company	Ticker	Price	Zacks	First Call	Value Line	Low 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%	55,91%	\$0.00	8.46%	22.55	4.19				
Allant 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				
Amoron 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	вкн	\$66.70	4.90%	4.26%	7.50%	4.26%	5.38%	51.00%	51.00%	65,91%	\$0.00	8.05%	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 Resources, 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 El Paso Electric Company	DUK EE	\$85.84 \$54.81	4.00% 5.20%	3.23% 5.30%	4.50% 5.00%	3.23% 5.00%	5,38% 5,38%	81.00% 50.00%	79.00% 57.00%	65.91% 65.91%	\$0.00 \$0.00	8,33% 8,52%	23.54 22.09	4.38 4.11				
Hawaiian Electric Industries, Inc.	HE	\$34.21	5.20% 4.20%	5.30% 4.50%	1.50%	1.50%	5.38%		70.00%	65.91%	\$0,00	8.52% 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 Rosourcos, 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				
Xcol Enorgy Inc.	XEL	\$48.05	5.50%	NA	4.50%	4.50%	5.38%	62.00%	66.00%	65.91%	\$0.00 Moan	8.68% 8.51%	21.06	3.92				
											Max	9,44%						
											Min	8.06%						
Projected Annual												0.0070						
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
<u>. </u>								······										
Company	Tickor	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
Alilant 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 \$6.48
Amoren Corporation American Electric Power Company, Inc.	AEE AEP	\$2.68 \$4.23	\$2.84 \$4.35	\$3.01 \$4.47	\$3.19 \$4.59	\$3.38 \$4.72	\$3.59 \$4.85	\$3.80 \$5.00	\$4.02 \$5,19	\$4,25 \$5.40	\$4.48 \$5.64	\$4.73 \$5.92	\$4.98 \$6.24	\$5.25 \$6.57	\$5.53 \$6.93	\$5.83 \$7.30	\$6.15 \$7.69	\$6.48 \$8.11
Black Hills Corporation	BKH	\$4.23 \$2.63	\$4.35 \$2.74	\$4.47 \$2.86	\$4.59 \$2.98	\$4.7∠ \$3.11	\$4,85	\$3.38	\$3,54	\$5.40 \$3,71	\$3.90	\$5.92 \$4,10	\$6.24 \$4,32	\$6.57 \$4.55	\$6.93 \$4.80	\$7.30 \$5.06	\$7.69 \$5.33	\$5.61
CMS Energy Corporation	CMS	\$1.98	\$2.14	\$2.56	\$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 Resources, 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	\$5.56	\$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
Hawalian 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 PNM	\$3.95 \$1.65	\$4.08 \$1.74	\$4.21 \$1.84	\$4.34 \$1.94	\$4.48 \$2.04	\$4.62 \$2.16	\$4.79 \$2.27	\$4.98 \$2.40	\$5.19 \$2,53	\$5.43 \$2.67	\$5,70 \$2,81	\$6.01 \$2.96	\$6.33 \$3.12	\$6.67 \$3.29	\$7.03 \$3.47	\$7.41 \$3.65	\$7.81 \$3.85
PNM Resources, Inc. Portland General Electric Company	POR	\$1.65 \$2,16	\$1.74 \$2.24	\$2.33	\$1.94 \$2.42	\$2.04 \$2.51	\$2.60	\$2.71	\$2.40	\$2.55 \$2.96	\$2.07 \$3,10	\$2.81 \$3.26	\$3.43	\$3,62	\$3.29	\$3.47 \$4.02	\$4.23	\$3.05 \$4.46
Southern Company	SO	\$2.83	\$2.24 \$2.90	\$2.33	\$3.03	\$3.10	\$3.18	\$3.27	\$3.37	\$3,50	\$3,66	\$3.84	\$3.40 \$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	Tickor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ALLETE, Inc.	ALE	1999 - San	63.00%		62.00%	61.50%	61.00%	61.82%	62.64%	63.45%	64.27% 65.94%	65.09% 65.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65,91% 65.91%	65.91% 65.91%
Atlant Energy Corporation	LNT AEE		65.00% 64.00%		66.00% 62.00%	66.00% 61.00%	66.00% 60.00%	65.98% 60.98%	65.97% 61.97%	65.95% 62.95%	65.94% 63.94%	65.92% 64.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
American Electric Power Company, Inc.	AEP		69.00%		66.00%	64,50%	63.00%	63,48%	63.97%	64,45%	63.94% 64,94%	65,42%	65,91%	65.91%	65,91%	65.91%	65.91%	65,91%
Black Hillis Corporation	BKH		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%	61.82%	62.64%	63.45%	64.27%	65.09%	65.91%	65,91%	65.91%	65.91%	65.91%	65.91%
Dominion Resources, Inc.	D		83.00%		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%		60.00%	62.00%	64.00%	64.32%	64.64%	64.95%	65.27%	65.59%	55.91%	65.91%	65.91%	65.91%	65.91%	65.91%
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Duke Enorgy 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%
Ottor Tall 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%	58.27%	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)
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Company	Tickor	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
Allant 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
Ameron 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 Resources, Inc.	D (1993)	\$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
Hawallan 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 Tall 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	S1.40	\$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

Investor Cash Flows		[64]	[65]	66	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
6	T 7-1	Initial	10/00/47	10/04/47	0.000.000	00040	0.00.000	0/02/04	0.000	0.000.000	0.000/04	alesier	0.000.000	0.000.007	ainaian	0 (00 (00	0.000.000	0.000.004	0.00000
Company	Tickor	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	\$2.13	\$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 Resources, Inc.	Ď	(\$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
Hawalian 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 Enorgy 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
Xcol 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 Average EPS Growth Rate Estimate in First Stage

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Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]			
		Stock	EPS	Growth R	ate Estima Value	tos	Long-Torm	F	ayout Rat	0	Itorativo	Solution	Terminal	Terminal			
Company	Ticker	Prico	Zacks	First Call	Line	Average	Growth	2017	2024	2027	Denef	100		050.0.0			
ALLETE, Inc.	ALE	\$77.37	7.20%	5.00%	5.00%	5.73%	5.38%	63.00%	2021 61.00%	2027 65.91%	Proof (\$0.00)	IRR 8.86%	23.56	PEG Ratio 4.38			
Allant 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%	51.00%	65.91%	(\$0.00)	9,47%	23.56	4.38			
Dominion Resources, Inc. DTE Energy Company	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			
Duke Energy Corporation	DTE DUK	\$112.59 \$87.23	6.00%	4.91%	6.00%	5.64%	5.38%	56.00%	64.00%	65.91%	(\$0.00)	9.31%	23.56	4.38			
El Paso Electric Company	EE	\$58.40	4.00% 5.20%	3.23% 5.30%	4.50%	3.91%	5.38%	81.00%	79.00%	65.91%	(\$0.00)	8.61%	23,56	4.38			
Hawalian Electric Industries, Inc.	HE	\$37.06	4.20%	5.30% 4.50%	5.00% 1.50%	5.17% 3.40%	5.38% 5.38%	50.00% 77.00%	57.00% 70.00%	65.91%	(\$0.00)	8.44%	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% 65.91%	(\$0.00) (\$0.00)	11.71% 8.03%	23.56 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 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 Tall 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 Southern 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			
WEC Energy Group, Inc.	SO WEC	\$50.56 \$67.80	4.50%	2.33%	3.50%	3.44%	5.38%	75.00%	73.00%	65.91%	(\$0.00)	10.80%	23.56	4.38			
Xcel Energy Inc.	XEL	\$50.21	5.40% 5.50%	5.27% NA	6.00% 4.50%	5.56% 5.00%	5.38% 5.38%	66.00%	67.00%	65.91%	(\$0.00)	9.55%	23.56	4.38			
		300.21	0.0076	INA	4.00%	5,00%	5.36%	62.00%	66.00%	65.91%	(\$0.00)	9.24%	23.56	4.38			
											Mean Mox	9.36% 11.71%					
											Min						
Projected Annual											5 9 14 5	1.00 %					
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	28	[29]
0														/			<u></u>
Company ALLETE, Inc.	Ticker	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Allant Energy Corporation	ALE LNT	\$3.14 \$1.65	\$3.32 \$1.76	\$3.51 \$1.87	\$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
Ameren Corporation	AEE	\$2.68	\$2.86	\$1.87	\$1.99 \$3.25	\$2.12 \$3.47	\$2.26 \$3.70	\$2,40	\$2.55	\$2.70	\$2.85	\$3.01	\$3.18	\$3.35	\$3.53	\$3.72	\$3.92
American Electric Power Company, Inc.	AEP	\$4,23	\$4.39	\$4.56	\$4.74	\$4.92	\$5.11	\$3,94 \$5.32	\$4.19 \$5.55	\$4.44 \$5.81	\$4.69 \$6.09	\$4.96 \$6.41	\$5.22 \$6.75	\$5.51	\$5.80	\$6,11	\$6.44
Black Hills Corporation	вкн	\$2.63	\$2.78	\$2.93	\$3.09	\$3.26	\$3,45	\$3.64	\$3.84	\$4.05	\$6.09	\$4,50	\$3.75 \$4.74	\$7,11 \$4,99	\$7.50 \$5.26	\$7.90 \$5.54	\$8.32
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	\$5.54 \$4.56	\$5.84 \$4.81
Dominion Resources, 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
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
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
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
Hawaiian Electric industries, Inc. IDACORP, 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
NorthWestern Corporation	IDA NWE	\$3.94 \$3.39	\$4.10 \$3.48	\$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
OGE Energy Corp.	OGE	\$3.59 \$1.69	\$3.40 \$1.77	\$3.58 \$1.85	\$3.68 \$1.94	\$3.78 \$2.03	\$3.88 \$2,13	\$4.01 \$2.23	\$4.15	\$4.32	\$4.51	\$4.74	\$4.99	\$5.26	\$5.54	\$5.84	\$6.16
Ottor Tall Corporation	OTTR	\$1.60	\$1.70	\$1.80	\$1.94	\$2.03 \$2.03	\$2.13	\$2.23 \$2.28	\$2.34 \$2.41	\$2.46 \$2.55	\$2.59 \$2.70	\$2.73 \$2.84	\$2.87	\$3.03	\$3.19	\$3.36	\$3.54
Pinnacle West Capital Corporation	PNW	\$3,95	\$4.14	\$4.33	\$4.54	\$4,75	\$4.97	\$5.21	\$5.47	\$2.55 \$5.75	\$6.05	\$4.84 \$6.36	\$3.00 \$6.71	\$3.16 \$7.07	\$3.33 \$7.45	\$3.51 \$7.85	\$3.70 \$8.27
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
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
Southorn Company	so	\$2.83	\$2.93	\$3.03	\$3.13	\$3.24	\$3,35	\$3.48	\$3.62	\$3.78	\$3.96	\$4.15	\$4.38	\$4,62	\$4,87	\$5.13	\$5.40
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
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
Projected Annual																	
Dividond Payout Ratio			[31]	[32]	[33]	[34]	[35]	[36]	[37]	[38]	[39]	[40]	[41]	[42]	[43]	[44]	(45)
			12.21		1001		001	(20)	101	100	[03]	1-01	<u>[4 1]</u>	[42]	[43]	44	[45]
Company	Ticker		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
ALLETE, Inc.	ALE	suudineer.	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%
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%
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%
American Electric Power Company, Inc.	AËP		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%
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%
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%
Dominion Resources, Inc. DTE Enorgy Company	D DTE		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%
D LE MINIBY COMPANY	DIE	100000000000	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%

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[30]

2032 \$7.45 \$4.13 \$6.79 \$8.77 \$6.16 \$5.07 \$7.88 \$11.37 \$7.72 \$5.44 \$4.59 \$6.35 \$6.49 \$3.73 \$5.38 \$4.59 \$8.57 \$6.49 \$3.73 \$3.89 \$4.72 \$5.70

\$6.93 \$4.97

[46] 2032 65.91% 65.91% 65.91% 65.91% 65.91% 65,91%

65.91% 65.91%

Duke Energy Corporation El Paso Electric Company Hawaiian Electric Industries, Inc. IDACORP, Inc. NorthWostern Corporation OGE Energy Corp. Ottor Tail Corporation Pinnacia West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southorn Company WEC Energy Group, Inc. Xeel Energy Inc.	DUK EHE IDA NWEE OTTW PNM POR SO C XEL		\$1.00% 50.00% 77.00% 54.00% 62.00% 67.00% 72.00% 63.00% 59.00% 59.00% 66.00% 62.00%	80.50% 51.75% 75.25% 62.00% 67.75% 68.50% 63.00% 50.25% 58.50% 74.50% 66.25% 63.00%	80.00% 53.50% 73.50% 62.00% 68.50% 65.00% 65.00% 65.250% 52.50% 58.00% 74.00% 66.50% 64.00%	79.50% 55.25% 71.75% 59.25% 62.00% 69.25% 61.50% 63.00% 54.75% 57.50% 73.50% 66.75% 65.00%	79.00% 57.00% 61.00% 62.00% 58.00% 58.00% 57.00% 57.00% 57.00% 63.00% 63.00%	76.82% 58.48% 69.32% 62.65% 69.32% 59.32% 63.48% 58.48% 58.48% 66.82% 65.98%	74.64% 59.97% 68.64% 62.64% 63.30% 58.64% 63.97% 59.97% 59.97% 59.97% 66.64% 65.97%	72.45% 61.45% 63.45% 63.45% 61.95% 61.95% 61.45% 61.45% 61.45% 65.95%	70.27% 62.94% 64.27% 64.60% 67.27% 63.27% 63.27% 64.94% 62.94% 68.27% 66.27% 65.94%	68.09% 64.42% 65.59% 65.25% 66.59% 64.59% 64.42% 64.42% 64.42% 67.09% 66.09% 65.92%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 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]	1631
Company	Ticker		2017														, , , , , , , , , , , , , , , , , ,		Terminal
ALLETE, Inc.	ALE		\$2.09	2018 \$2.19	2019 \$2.30	2020 \$2.41	2021 \$2.53	2022 \$2.71	2023 \$2.90	2024 \$3.10	2025 \$3.31	2026 \$3.54	2027	2028	2029	2030	2031	2032	Valuo
Alliant Energy Corporation	LNT		\$1.16	\$1.23	\$1.31	\$1.40	\$2.55 \$1.49	\$1.58	\$2.90	\$3.10 \$1.78	\$3.31 \$1.88	\$3.54 \$1,99	\$3.78 \$2.09	\$3,98 \$2,21	\$4.19 \$2.32	\$4.42 \$2.45	\$4.66	\$4.91	\$175.45
Ameren Corporation	AEE		\$1,83	\$1.92	\$2.02	\$2.12	\$2.22	\$2.40	\$2.59	\$2.79	\$3.00	\$3.22	\$2.09 \$3.44	\$3.63	\$2.32 \$3.82	≎∠.4⊃ \$4.03	\$2.58 \$4.25	\$2.72 \$4.47	\$97.22 \$159.96
Amorican 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	\$4.03 \$5.21	\$4.25 \$5.49	\$4.47 \$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 Resources, 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	\$1.68	\$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 Tall 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	1949/2020	\$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]
0		Initial																	
Company ALLETE, Inc.	Tickor	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
	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
Alilant Enorgy Corporation Ameron 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
	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
Amorican Electric Power Company, Inc.	AËP BKH	(\$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		(\$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 Dominion Resources, inc.	CMS D	(\$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
		(\$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	\$190.85
DTE Energy Company Duke Energy Corporation	DTE DUK	(\$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
El Paso Electric Company	EE	(\$87.23) (\$58.40)	\$0.00 \$0.00	\$0.02 \$0.01	\$3.18 \$1.29	\$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
Hawaiian Electric Industries, Inc.	HE	(\$58.40) (\$37.06)	\$0.00 \$0.00			\$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
IDACORP. Inc.	IDA			\$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
		(\$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 Pinnacle West Capital 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
Philade West Capital Corporation PNM Resources, Inc.	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
Portland General Electric Company	PNM POR	(\$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
r orauna oonorar aloone oompany	FUR	(\$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

\$2.32 \$2.32 \$2.32 \$1.64

\$2.23

\$2.12

\$1.47

Southern Company

WEC Energy Group, Inc. Xcel Energy Inc.

SO

WEC

XEL

(\$50.56)

(\$67.80) (\$50.21)

\$0.00

\$0.00

\$0.00

\$0.01

\$0.01

\$0.01

\$1.49 \$2.38

\$2.45 \$1.75

\$2.45

\$2.60

\$1.86

\$1.66

\$2.50

\$2.74

\$1.96

\$2.56

\$2.88

\$2.06

\$2.63

\$3.03

\$2.16

\$1.78 \$2.06

\$2.70

\$3.18

\$2.27

\$1.92 \$2.22 \$2.79

\$3.35 \$2.39

\$2.89

\$3.52 \$2.52

\$2.18 \$2.52

\$3.04

\$3.70 \$2.66

\$3.21

\$3.90 \$2.80

\$3.38

\$4,11 \$2.95

\$3.56

\$4.34 \$3.11

\$137.95

\$167.90 \$120.48

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

P==										or orage								
Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth R	ate Estima Value		Long-Term	۶	ayout Rat	ю	Itorativo	Solution	Torminal	Terminal	•			
Company	Ticker	Price	Zacks	First Call	Line	High Growth	Counth	2047	0004									
ALLETE, Inc.	ALE	\$77.37	7.20%	5.00%	5.00%	7.20%	Growth 5.38%	2017 63.00%	2021	2027	Proof	IRR		PEG Ratio				
Alllant Energy Corporation	LNT	\$43.95	6,40%	7.05%	6.00%	7.05%	5.38%	66.00%	66.00%	65.91% 65.91%	(\$0.00) (\$0.00)	9.74% 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)	9.04%	23.56 23.56	4.38 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 Resources, Inc. DTE Energy Company	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				
Duke Energy Corporation	DTE	\$112.59 \$87.23	6.00%	4.91%	6.00%	6.00%	5.38%	56.00%	64.00%	65.91%	(\$0.00)	9.53%	23.56	4.38				
El Paso Electric Company	ÉÉ	\$58.40	4.00% 5.20%	3.23%	4.50%	4.50%	5.38%	81,00%	79.00%	65.91%	(\$0.00)	8.97%	23.56	4.38				
Hawailan Electric Industries, Inc.	HE	\$37.06	4.20%	5.30% 4.50%	5.00% 1.50%	5.30% 4.50%	5.38%	50.00%	57.00%	65.91%	(\$0.00)	8.52%	23.56	4.38				
IDACORP, Inc.	IDA	\$95.25	5.00%	4.00%	3.50%	4.50%	5.38% 5.38%	77.00% 54.00%	70.00% 61.00%	65.91%	(\$0.00)	12.44%	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% 65.91%	(\$0.00) (\$0.00)	8.53% 10.95%	23.56	4.38				
OGE Energy Corp.	ÓGE	\$34.24	4.30%	3.90%	6.00%	6.00%	5.38%	67.00%	70.00%	65.91%	(\$0.00)	11.06%	23.56 23.56	4.38 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 WEC Energy Group, Inc.	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				
Xcol Energy Inc.	WEC XEL	\$67.80 \$50.21	5.40%	5.27%	6.00%	6.00%	5.38%	66.00%	67.00%	65.91%	(\$0.00)	9.82%	23.56	4.38				
Noor Enorgy inc.		350.21	5.50%	NA	4.50%	5.50%	5.38%	62.00%	66.00%	65.91%	(\$0.00)	9.54%	23.56	4.38				
											Mean	9.93%						
											Max Min	12.44% 8.22%						
Projected Annual											IAN11	0.2270						
Earnings per Share		[14]	15	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
C										• • • • • • • • • • • • • • • • • • • •		·		,,			(20)	(00)
Company ALLETE, Inc.	Ticker	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Alliant Energy Corporation	ALE LNT	\$3.14 \$1.65	\$3.37 \$1.77	\$3.61 \$1.89	\$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
Ampron Corporation	AEE	\$2.68	\$2.87	\$3.07	\$2,02 \$3.28	\$2.17 \$3.51	\$2.32	\$2.48	\$2.64	\$2.80	\$2.97	\$3.14	\$3.30	\$3.48	\$3.67	\$3.87	\$4.07	\$4.29
American Electric Power Company, Inc.	AEP	\$4.23	\$4,43	\$4.65	\$4.87	\$5.10	\$3.76 \$5.35	\$4.01 \$5.61	\$4.27 \$5.89	\$4.54 \$6.19	\$4.80 \$6.51	\$5.08	\$5.35	\$5.64	\$5.94	\$6.26	\$6.59	\$6.95
Black Hills Corporation	BKH	\$2.63	\$2.83	\$3.04	\$3.27	\$3.51	\$3.78	\$4.05	\$4,32	\$4.60	\$4,88	\$6.85 \$5.16	\$7.22 \$5.44	\$7,61	\$8.02	\$8.45	\$8.91	\$9.39
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	\$5.73 \$4.29	\$6.04 \$4.53	\$6.36 \$4.77	\$6.70 \$5.02	\$7.06 \$5.30
Dominion Resources, 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 El Paso Electric Company	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
Hawaiian Electric Industries, Inc.	EE ME	\$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
IDACORP, Inc.	IDA	\$2.29 \$3,94	\$2.39 \$4.14	\$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
NorthWestern Corporation	NWE	\$3,39	\$3.54	\$4.34 \$3.70	\$4.56 \$3.87	\$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
OGE Energy Corp.	OGE	\$1,69	\$1.79	\$1.90	\$3.07 \$2.01	\$4.04 \$2.13	\$4.22 \$2.26	\$4.42 \$2.39	\$4.63	\$4.86	\$5.11	\$5.38	\$5.67	\$5.97	\$6.29	\$6.63	\$6.99	\$7.36
Otter Tail Corporation	OTTR	\$1.60	\$1.71	\$1.83	\$1.96	\$2.13	\$2.20	\$2.39 \$2.40	\$2.53 \$2.55	\$2.68 \$2.71	\$2.83 \$2.87	\$2.98	\$3.14	\$3.31	\$3.49	\$3.68	\$3.88	\$4.08
Pinnacle West Capital Corporation	PNW	\$3,95	\$4.17	\$4.40	\$4.64	\$4.89	\$5.15	\$5.45	\$5.74	\$6.06	\$6.38	\$3.03 \$6.73	\$3.19 \$7.09	\$3.36 \$7,47	\$3.55 \$7.87	\$3.74 \$8.30	\$3.94	\$4.15
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	\$8.74 \$4,21	\$9.21 \$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
Southorn 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. Xeel Energy 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
Acti 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]	(40)	1403			
		wa			,,	(0.1)	100	100	[07]	00	[35]	[⇔v]	[41]	[42]	[43]	[44]	[45]	[46]
Company	Tickor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ALLETE, Inc.	ALE	general (1994)	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%	56.00%	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%
Amoren 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. Black Hills Corporation	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%
CMS Energy Corporation	BKH CMS		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%
Dominion Resources, Inc.	D		61.00%	61.00% 84.00%	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%
DTE Energy Company	DTE		83.00% 56.00%	84.00% 58.00%	85.00% 60.00%	86.00% 62.00%	87,00%	83.48%	79.97%	76.45%	72.94%	69.42%	65.91%	65.91%	65.91%	65.91%	65.91%	65.91%
	012		30.00%	30.00%	00.00%	02.00%	64.00%	64.32%	64.64%	64.95%	65.27%	65.59%	65.91%	65.91%	65.91%	65.91%	65.91%	65.91%

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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.	нE	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%
Ottor Tall 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 Enorgy 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%	6 <u>5.92</u> %	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]
												_						Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Valuo
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
Ameron 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		\$3.21	\$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		\$1.67	\$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		\$1.50	\$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 Resources, 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 200	\$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
Hawailan 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	STIR	\$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		\$2.39	\$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
Xcol Energy Inc.	XEL	\$1.45		\$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
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Projected Annual Data Investor Cash Elows	r	641 [65]	[66]	1671	(6A)	(69)	10701	[71]	1721	[73]	[74]	1751	[76]	[77]	(78)	[79]	[80]	(81)

Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[07]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
		Initial													****				
Company	Tickor	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	(\$77.37)	\$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
Amoren 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 Resources, 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
Ottor 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 Goneral 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
Southorn 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 <u>.49</u>	\$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

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

Inputs		[1] Stock	[2] EPS	[3] Growth Ra	[4] te Estimat	[5]	[6] Long-Term	[7]	[8] ayout Rati	[9]	[10] Itorative	[11] Solution	[12] Torminal	[13] Terminal				
		-			Value	Low	Long-Tonn	r r	ayour nuu	5	ILCH OLLA C	30141011	FORTHER	Tarranat				
Company	Tickor	Prico		First Call	Lino	Growth	Growth	2017	2021	2027	Proof	IRR		PEG Ratio				
ALLETE, Inc. Alliant Energy Corporation	ALE LNT	\$77.37 \$43.95	7.20% 6.40%	5.00% 7.05%	5.00% 6.00%	5.00% 6.00%	5.38% 5.38%	63.00% 66.00%	61.00% 66.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.42% 8.41%	23.56 23.56	4.38 4.38				
Ameron Corporation	AEE	\$61.69	7.00%	7.00%	6.00%	6.00%	5.38% 5.38%	64.00%	60.00%	65.91% 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 Resources, 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 Enorgy 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 El Paso Electric Company	DUK EE	\$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				
Hawalian Electric Industries, Inc.	HE	\$58.40 \$37.06	5.20% 4.20%	5.30% 4.50%	5.00% 1.50%	5.00% 1.50%	5.38% 5.38%	50.00% 77.00%	57.00% 70.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.34% 10.47%	23.56 23.56	4.38				
DACORP, 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 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 Tall 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 MEC Express Group Inc.	SO WEC	\$50.56 \$67.80	4.50%	2.33% 5.27%	3.50% 6.00%	2.33%	5.38%	75.00%	73,00%	65.91%	(\$0.00)	10.08% 9.37%	23.56	4.38				
WEC Energy Group, Inc. Xeel Energy Inc.	XEL	\$67.80 \$50.21	5.40% 5.50%	5.27% NA	6.00% 4.50%	5.27% 4.50%	5.38% 5.38%	66.00% 62.00%	67.00% 66.00%	65.91% 65,91%	(\$0.00) (\$0.00)	9.37% 8.93%	23.56 23.56	4.38 4.38				
Kool Enorgy life.		400.21	5.50 %	11/1	4.30 /6	4.30.76	3.36%	02.00%	00,00 %	00.9176	Mean	8.82%	23,30	4.30				
											Max	10.47%						
											Min	7.17%						
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
					<u></u>	[10]	[10]		14-11	(~~)			(20)	[20]		,201	100	(00)
Company	Ticker	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ALLETE, Inc. Alliant Energy Corporation	ALE	\$3.14 \$1.65	\$3.30 \$1.75	\$3.46 \$1.85	\$3,63 \$1,97	\$3.82 \$2.08	\$4.01 \$2.21	\$4.21 \$2.34	\$4.43 \$2.47	\$4.65 \$2.61	\$4,90 \$2,76	\$5.16 \$2.91	\$5.44 \$3.07	\$5.73 \$3.23	\$6.04 \$3,41	\$5.36 \$3.59	\$6,71 \$3,78	\$7.07 \$3.99
Ameren Corporation	AEE	\$2.68	\$1.75 \$2.84	\$3.01	\$3,19	\$2.08 \$3.38	\$3.59	32.34 \$3.80	\$4.02	\$4.25	\$4.48	\$2.91 \$4.73	\$3.07 \$4.98	\$3.∠3 \$5.25	\$3.41 \$5.53	\$3,59 \$5,83	\$3.76 \$6.15	\$3.99 \$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 Resources, 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 \$2.39	\$3.83 \$2.51	\$3.95	\$4.08	\$4.21 \$2.91	\$4.35	\$4.51 \$3.20	\$4.68	\$4.88	\$5.11	\$5.37 \$3.93	\$5.66	\$5.96	\$6.28	\$6.62 \$4.84	\$6,98 65 10	\$7.35
El Paso Electric Company Hawajian Electric Industries, Inc.	HE	\$2.29	\$2.32	\$2.63 \$2.36	\$2.77 \$2.39	\$2.91	\$3.05 \$2.47	\$2.52	\$3.37 \$2.59	\$3.54 \$2.68	\$3.73 \$2.79	\$3.93 \$2.92	\$4.14 \$3.08	\$4.36 \$3.24	\$4.60 \$3,42	\$4.64 \$3.60	\$5,10 \$3,80	\$5.38 \$4.00
DACORP, 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
Ottor Tall 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 Southern Company	POR SO	\$2,16 \$2,83	\$2.24 \$2.90	\$2.33 \$2.96	\$2.42 \$3,03	\$2.51 \$3.10	\$2.60 \$3.18	\$2.71 \$3.27	\$2,83 \$3,37	\$2.96 \$3.50	\$3.10 \$3.66	\$3.26 \$3.84	\$3.43 \$4.04	\$3.62 \$4.26	\$3.81 \$4.49	\$4.02 \$4.73	\$4.23 \$4.98	\$4.46 \$5.25
WEC Energy Group, Inc.	WEC	\$2,96	\$3.12	\$3.28	\$3,45	\$3.64	\$3.83	\$4,03	\$3,57 \$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	Tickor		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ALLETE, Inc.	ALË LNT	312499	63.00% 66.00%	62.50% 66.00%	62.00% 66.00%	61.50% 66.00%	61.00% 66.00%	61.82% 65.98%	62.64% 65.97%	63.45% 65.95%	64.27% 65.94%	65.09% 65.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Alliant Energy Corporation Ameren Corporation	AEE		66.00% 64.00%	63.00%	66.00% 62.00%	66.00% 61.00%	60.00% 60.00%	65.98% 60.98%	61.97%	65.95% 62.95%	65.94% 63.94%	65.92% 64.92%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91%	65.91% 65.91%	65.91%
American Electric Power Company, Inc.	AEE		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 Resources, 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%

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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%
Hawalian Electric Industries, Inc.	HE	77.00%	75.25%	73.50%	71.75%	70.00%	69.32%	68.64%	67,95%	67.27%	56.59%	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%	66.54%	66.45%	66.27%	66.09%	65.91%	65.91%	65.91%	65,91%	65.91%	65.91%
Xcol Energy Inc.	XE1	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]
0		0047		0040	0000		0000											Terminal
Company	Ticker	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	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	\$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 Resources, Inc.	D	\$2.96	\$3.10	\$3.26	\$3.41	\$3.58	\$3.57	\$3.56	\$3.55	\$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
Hawailan Electric Industries, Inc.	HE SAME	\$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 Tall 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	\$3.35	\$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
Southorn Company	SO	\$2.17	\$2.21	\$2.24	\$2.28	\$2.32	\$2.35	\$2.38		\$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	\$2.21 \$2.17	\$2.24 \$2.30	\$2.43	\$2.32 \$2.56	\$∠.35 \$2.69		\$2.43			\$2.66 \$3.44		\$2.96 \$3.83	\$3.12 \$4.03	\$3.29 \$4.25	\$3.46 \$4.48	\$123.77 \$160.03
					\$2.43 \$1.71			\$2.83	\$2.97	\$3.12	\$3.28		\$3.63					
Xcol Energy Inc.	XEL	\$1.43	\$1.52	\$1.61	<u></u>	\$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]
		Initial																	
Company	Tickor	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	(\$77.37)	\$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	\$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 Resources, 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	EΕ	(\$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
Hawallan 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 Tall 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 Average EPS Growth Rate Estimate in First Stoge

[1] Stock Skor Price FF State Stock Stock State Stock Stock Stock Stock Stock Stock Stock State Sta	Zacks 7.20% 6.40% 7.00% 4.80% 6.50% 5.60% 4.90% 4.00% 5.20% 4.20% 4.20% 5.20% 4.30% 4.30% 4.30% 4.30% 5.50% 5.50% 5.40% 5.50%	Bit Bit First Call 5.00% 7.05% 7.05% 7.05% 7.05% 7.07% 4.26% 7.44% 3.64% 3.64% 4.91% 3.23% 5.30% 5.30% 4.50% 4.50% 4.50% 4.50% 5.20% 5.46% 5.27% NA NA	[4] ato Estimat Value Line 5.00% 6.00% 4.00% 4.00% 6.50% 6.50% 6.50% 6.50% 6.50% 6.50% 6.50% 4.50% 6.00% 4.50% 3.50% 6.00% 4.50% 3.50% 6.00% 4.50% 3.50% 6.00% 4.50% 5.00% 5.00%	[5] Avorage 5.73% 6.48% 6.67% 3.86% 5.55% 6.81% 5.25% 6.81% 5.25% 3.40% 4.17% 4.73% 6.35% 4.72% 6.35% 4.56% 5.56% 5.00%	[6] Long-Term 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	[7] 2017 63.00% 64.00% 64.00% 64.00% 61.00% 61.00% 63.00% 63.00% 62.00% 63.	60.00% 63.00% 51.00% 61.00% 87.00% 64.00% 79.00% 57.00% 57.00% 62.00% 63.00% 63.00% 57.00% 57.00% 57.00%	9 2027 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	[10] Iterative 5 Proof (\$0.00) (\$0.		P/E Ratio 23.56	[13] Torminal PEG Ratio 4.38				
LE \$77.72 NT \$43.28 EE \$60.87 EP \$74.10 KH \$64.26 D \$80.26 TE \$111.40 UK \$87.07 EE \$35.42 UK \$87.07 EE \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 STTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 VEC \$66.46 (EL \$49.41	7.20% 6.40% 7.00% 4.80% 6.50% 6.50% 4.00% 5.80% 5.20% 4.00% 5.20% 4.00% 5.20% 5.00% 5.50% 4.30% 5.50% 5.50% 5.40%	5.00% 7.05% 7.05% 2.77% 4.26% 4.26% 4.26% 4.81% 3.23% 5.30% 4.50% 4.00% 2.25% 4.00% 5.20% 5.60% 4.00% 2.33%	Line 5.00% 6.00% 4.00% 7.50% 6.50% 6.50% 4.50% 4.50% 3.50% 4.50% 6.00% 7.50% 5.00% 5.00% 6.00%	5.73% 6.48% 6.67% 3.86% 5.55% 6.81% 5.25% 5.25% 5.25% 5.25% 3.91% 3.40% 4.17% 3.40% 4.73% 6.10% 4.73% 6.35% 4.60% 3.44%	538% 538% 538% 538% 538% 538% 538% 538%	63.00% 66.00% 64.00% 69.00% 51.00% 51.00% 61.00% 83.00% 55.00% 77.00% 54.00% 63.00% 63.00% 63.00% 63.00% 59.00% 59.00% 59.00% 59.00%	51.00% 66.00% 60.00% 51.00% 51.00% 61.00% 87.00% 57.00% 57.00% 57.00% 61.00% 62.00% 62.00% 63.00% 57.00% 57.00% 57.00%	85.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	8.82% 8.84% 10.15% 10.95% 9.67% 9.67% 9.41% 8.62% 8.63% 12.18% 8.32% 9.90% 7.93% 9.16%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
LE \$77.72 NT \$43.28 EE \$60.87 EP \$74.10 KH \$64.26 MS \$48.25 D \$80.26 TE \$111.40 UK \$87.07 EE \$57.15 UK \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 TTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 VEC \$66.46 (EL \$49.41	6.40% 7.00% 4.80% 4.90% 6.50% 5.60% 4.00% 5.20% 4.20% 5.20% 4.20% 5.20% 3.20% 4.30% NA 3.20% 3.80% 4.50% 5.40%	7.05% 7.00% 2.77% 4.26% 4.26% 4.26% 4.91% 3.23% 5.30% 4.50% 4.50% 4.50% 5.20% 5.46% 4.00% 2.33% 5.22%	6.00% 6.00% 4.00% 6.50% 6.50% 6.50% 4.50% 5.00% 4.50% 4.50% 6.00% 5.50% 7.50% 6.00% 7.50% 6.00%	5.73% 6.48% 6.67% 3.86% 5.55% 6.81% 5.25% 5.25% 5.25% 5.25% 3.91% 3.40% 4.17% 3.40% 4.73% 6.10% 4.73% 6.35% 4.60% 3.44%	538% 538% 538% 538% 538% 538% 538% 538%	63.00% 66.00% 64.00% 69.00% 51.00% 51.00% 61.00% 83.00% 55.00% 77.00% 54.00% 63.00% 63.00% 63.00% 63.00% 59.00% 59.00% 59.00% 59.00%	51.00% 66.00% 60.00% 51.00% 51.00% 61.00% 87.00% 57.00% 57.00% 57.00% 61.00% 62.00% 62.00% 63.00% 57.00% 57.00% 57.00%	85.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	8.82% 8.84% 10.15% 10.95% 9.67% 9.67% 9.41% 8.62% 8.63% 12.18% 8.32% 9.90% 7.93% 9.16%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
NT \$43.28 EE \$60.87 EP \$74.10 KH \$64.26 MS \$48.25 D \$80.26 TE \$111.40 UK \$87.07 EE \$57.15 HE \$35.42 DA \$92.20 WE \$59.96 GE \$35.59 NM \$42.64 NW \$68.35 NM \$42.64 NW \$68.35 NM \$42.64 OR \$47.20 50 \$50.41 FEC \$66.46 EL \$49.41	6.40% 7.00% 4.80% 4.90% 6.50% 5.60% 4.00% 5.20% 4.20% 5.20% 4.20% 5.20% 3.20% 4.30% NA 3.20% 3.80% 4.50% 5.40%	7.05% 7.00% 2.77% 4.26% 4.26% 4.26% 4.91% 3.23% 5.30% 4.50% 4.50% 4.50% 5.20% 5.46% 4.00% 2.33% 5.22%	6.00% 6.00% 4.00% 6.50% 6.50% 6.50% 4.50% 5.00% 4.50% 4.50% 6.00% 5.50% 7.50% 6.00% 7.50% 6.00%	6.48% 6.67% 3.86% 5.55% 6.81% 5.25% 5.25% 5.24% 3.91% 5.17% 4.73% 4.73% 4.73% 6.10% 4.72% 6.35% 4.60% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	66.00% 64.00% 69.00% 51.00% 83.00% 61.00% 83.00% 60.00% 77.00% 62.00% 62.00% 62.00% 62.00% 63.00% 43.00% 59.00% 43.00% 59.00% 63.00%	66.00% 60.00% 63.00% 61.00% 61.00% 79.00% 79.00% 70.00% 62.00% 62.00% 63.00% 63.00% 57.00% 57.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	8.84% 10.16% 10.99% 8.58% 9.60% 9.67% 9.41% 8.63% 8.63% 12.18% 8.32% 10.11% 9.90% 7.93% 9.16% 8.64%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
EE \$60.87 EP \$74.10 KH \$64.26 MS \$48.25 D \$80.26 TE \$111.40 UK \$87.07 EE \$57.15 IE \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 TTR \$44.86 NW \$68.35 NM \$42.64 OR \$47.20 SO \$50.41 FEC \$66.46 (EL \$49.41	7.00% 4.80% 4.90% 6.50% 6.00% 4.00% 4.00% 4.20% 5.20% 4.20% 4.30% 4.30% NA 3.20% 3.80% 4.50% 3.80% 5.40%	7.00% 2.77% 4.26% 3.64% 3.64% 3.23% 5.30% 4.50% 4.00% 2.25% 3.90% 5.20% 4.00% 2.25% 3.90% 5.26%	6.00% 4.00% 7.50% 6.50% 6.50% 4.50% 4.50% 4.50% 4.50% 4.50% 6.00% 7.50% 5.50% 8.00% 3.50%	6.67% 3.86% 5.55% 5.64% 5.25% 5.64% 3.91% 3.40% 4.17% 3.40% 4.72% 6.35% 4.72% 6.35% 4.52%	5.38% 5.38%	64.00% 69.00% 51.00% 61.00% 83.00% 56.00% 61.00% 61.00% 62.00% 62.00% 62.00% 63.00% 63.00% 59.00% 75.00% 86.00%	60.00% 63.00% 51.00% 61.00% 64.00% 79.00% 57.00% 61.00% 62.00% 70.00% 63.00% 57.00% 57.00% 57.00% 57.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	10.15% 10.99% 8.58% 9.60% 9.41% 8.62% 8.62% 8.63% 12.18% 8.32% 10.11% 9.90% 7.93% 8.64%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
EP \$74.10 KH \$64.26 MS \$48.25 D \$80.26 ITE \$111.40 UK \$87.07 EE \$57.15 IE \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 ITR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 S0 \$50.41 IEC \$66.46 EL \$49.41 [14]	4.80% 4.90% 6.50% 5.60% 6.00% 5.20% 4.20% 5.20% 4.30% NA 3.20% 5.50% 3.80% 4.50% 5.40%	2.77% 4.26% 7.44% 4.91% 3.23% 5.30% 4.50% 4.00% 2.25% 3.90% 5.20% 5.20% 5.46% 6.05% 4.00% 2.33%	4.00% 7.50% 6.50% 6.00% 4.50% 5.00% 1.50% 4.50% 4.50% 6.00% 7.50% 7.50% 8.00% 3.50%	3.86% 5.55% 6.81% 5.25% 5.64% 3.91% 5.17% 4.17% 2.75% 4.17% 6.10% 4.72% 6.35% 4.55%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	69.00% 51.00% 61.00% 83.00% 55.00% 81.00% 60.00% 62.00% 62.00% 63.00% 48.00% 59.00% 75.00%	63.00% 51.00% 61.00% 87.00% 57.00% 57.00% 57.00% 61.00% 62.00% 58.00% 63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	10.99% 8.58% 9.60% 9.41% 8.62% 8.63% 12.18% 8.32% 10.11% 9.90% 7.93% 9.16% 8.54%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
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EE \$57.15 HE \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 TTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 FEC \$66.46 EL \$49.41	5.20% 4.20% 5.00% 1.50% 4.30% 5.50% 3.80% 4.50% 5.40%	5.30% 4.50% 4.00% 2.25% 3.90% 5.20% 5.46% 6.05% 4.00% 2.33% 5.27%	5.00% 1.50% 3.50% 4.50% 6.00% 5.50% 7.50% 6.00% 3.50% 6.00%	5.17% 3.40% 4.17% 2.75% 4.73% 6.10% 4.72% 6.35% 4.35% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	50.00% 77.00% 54,00% 62.00% 67.00% 63.00% 63.00% 48.00% 59.00% 66.00%	57.00% 70.00% 61.00% 62.00% 70.00% 58.00% 63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	8.63% 12.18% 8.32% 10.11% 9.90% 7.93% 9.16% 8.64%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38 4.38				
1E \$35.42 DA \$92.20 WE \$59.96 GE \$35.55 TTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 YEC \$66.46 YEL \$49.41	4.20% 5.00% 1.50% 4.30% NA 3.20% 5.50% 3.80% 4.50% 5.40%	4.50% 4.00% 2.25% 3.90% 5.20% 5.46% 6.05% 4.00% 2.33% 5.27%	1.50% 3.50% 4.50% 6.00% 5.50% 7.50% 6.00% 3.50% 6.00%	3.40% 4.17% 2.75% 4.73% 6.10% 4.72% 6.35% 4.60% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	77.00% 54.00% 62.00% 67.00% 72.00% 63.00% 48.00% 59.00% 75.00% 66.00%	70.00% 61.00% 62.00% 70.00% 58.00% 63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	12.18% 8.32% 10.11% 9.90% 7.93% 9.16% 8.64%	23.56 23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38 4.38 4.38				
DA \$92.20 WE \$59.96 (GE \$35.55 TTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 FEC \$66.46 (EL \$49.41	5.00% 1.50% 4.30% NA 3.20% 5.50% 3.80% 4.50% 5.40%	4.00% 2.25% 3.90% 5.20% 5.46% 6.05% 4.00% 2.33% 5.27%	3.50% 4.50% 6.00% 5.50% 7.50% 6.00% 3.50% 6.00%	4.17% 2.75% 4.73% 6.10% 4.72% 6.35% 4.60% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	54,00% 62,00% 67,00% 72,00% 63,00% 48,00% 59,00% 75,00% 86,00%	61.00% 62.00% 70.00% 58.00% 63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	8.32% 10.11% 9.90% 7.93% 9.16% 8.64%	23.56 23.56 23.56 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38 4.38				
WE \$59.96 GE \$35.55 TTR \$44.86 NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 VEC \$66.46 (EL \$49.41	1.50% 4.30% NA 3.20% 5.50% 3.80% 4.50% 5.40%	2.25% 3.90% 5.20% 5.46% 6.05% 4.00% 2.33% 5.27%	4.50% 6.00% 5.50% 7.50% 6.00% 3.50% 6.00%	2.75% 4.73% 6.10% 4.72% 6.35% 4.60% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38% 5.38%	62.00% 67.00% 63.00% 48.00% 59.00% 75.00% 66.00%	62.00% 70.00% 58.00% 63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00) (\$0.00)	10.11% 9.90% 7.93% 9.16% 8.64%	23.55 23.56 23.56 23.56 23.56	4.38 4.38 4.38 4.38				
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NW \$88.35 NM \$42.64 OR \$47.20 SO \$50.41 /EC \$66.46 (EL \$49.41	3.20% 5.50% 3.80% 4.50% 5.40%	5.46% 6.05% 4.00% 2.33% 5.27%	5.50% 7.50% 6.00% 3.50% 6.00%	4.72% 6,35% 4.60% 3.44% 5.56%	5.38% 5.38% 5.38% 5.38% 5.38%	63.00% 48.00% 59.00% 75.00% 66.00%	63.00% 57.00% 57.00% 73.00%	65.91% 65.91% 65.91%	(\$0.00) (\$0.00) (\$0.00)	9.16% 8.64%	23.56 23.56	4.38				
NM \$42.64 OR \$47.20 SO \$50.41 /EC \$66.46 /EL \$49.41	5.50% 3.80% 4.50% 5.40%	6.05% 4.00% 2.33% 5.27%	7.50% 6.00% 3.50% 6.00%	6,35% 4.60% 3.44% 5.56%	5,38% 5.38% 5.38% 5.38%	48.00% 59.00% 75.00% 66.00%	57.00% 57.00% 73.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.64%	23,56					
OR \$47.20 SO \$50.41 /EC \$66.46 /EL \$49.41 [14]	3.80% 4.50% 5.40%	4.00% 2.33% 5.27%	6.00% 3.50% 6.00%	4.60% 3.44% 5.56%	5.38% 5.38% 5.38%	59.00% 75.00% 66.00%	57.00% 73.00%	65.91%	(\$0.00)			4,00				
50 \$50.41 YEC \$66.46 YEL \$49.41	4.50% 5.40%	2.33% 5.27%	3.50% 6.00%	3.44% 5.56%	5.38% 5.38%	75.00% 66.00%	73.00%									
(EC \$66.46 (EL \$49.41 [14]	5.40%	5.27%	6.00%	5.56%	5.38%	66.00%					23.56	4.38				
<u>EL \$49.41</u> [14]									(\$0.00)	10.83%	23.56	4.38				
[14]	5.50%	<u>NA</u>	4.50%	5.00%	5.38%		67.00%	65.91%	(\$0.00)	9.74%	23.56	4.38				
						64.0078	66.00%	65.91%	(\$0.00)	9.39%	23.56	4.38				
									Моап	9.46%						
									Max Min	12,18% 7.93%						
									18(+) 1							
cker 2016	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
LE \$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
NT \$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
EE \$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	\$6.7
EP \$4.23	\$4.39	\$4.56	\$4.74	\$4.92	\$5.11	\$5.32	\$5.55	\$5.81	\$6.09	\$5.41	\$6.75	\$7.11	\$7.50	\$7.90	\$8.32	\$8.71
																\$6.16
																\$5.0
																\$7.88
																\$11.3
			\$4.16		\$4.49	\$4.68	\$4.89	\$5.11	\$5.36	\$5.64	\$5.94	\$6.26	\$6.60	\$6.95		\$7.73
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	\$5.4
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	\$4.5
DA \$3.94	\$4,10	\$4.28	\$4,45	\$4,64	\$4,83	\$5.04	\$5.27		\$5,80	\$6.10	\$6.43	\$6.77	\$7.14	\$7.52	\$7.93	\$8.3
WE \$3.39	\$3,48			\$3.78	\$3.88		\$4.15		\$4.51	\$4.74	\$4,99	\$5.26	\$5.54	\$5.84	\$6.16	\$6.4
																\$3.7
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	. ఎ.న. చచ	33.U J	QQ.13	¢J.∠4		33.40				CA 10						\$4.7
VEC \$2.96	\$3.12	\$3.30	\$3.48	\$3.67	\$3.88	\$4.09	\$4.32	\$3.78 \$4.55	\$3.96 \$4.80	\$4.16 \$5.06	\$4.38 \$5.33	\$4.62 \$5.62	\$4.87 \$5.92	\$5.13 \$6.24	\$5.40 \$6.58	\$4.7 \$5.7 \$6.9
DA IWE DGE TTR NW NM PNM POR	\$2.29	\$1.98 \$2.11 \$3.44 \$3.62 \$4.83 \$5.10 \$3.71 \$3.86 \$2.39 \$2.51 \$2.29 \$2.37 \$3.94 \$4.10 \$3.39 \$3.48 \$1.69 \$1.77 \$1.60 \$1.70 \$3.95 \$4.14 \$1.65 \$1.75 \$2.16 \$2.26	\$1.98 \$2.11 \$2.26 \$3.44 \$3.62 \$3.81 \$4.83 \$5.10 \$5.39 \$3.71 \$3.86 \$4.01 \$2.29 \$2.51 \$2.64 \$2.29 \$2.37 \$2.45 \$3.94 \$4.10 \$4.28 \$3.39 \$3.48 \$3.58 \$1.69 \$1.77 \$1.85 \$1.60 \$1.70 \$1.80 \$3.95 \$4.14 \$4.33 \$1.65 \$1.75 \$1.87 \$2.26 \$2.26	\$1.98 \$2.11 \$2.26 \$2.41 \$3.44 \$3.62 \$3.81 \$4.01 \$4.83 \$5.10 \$5.39 \$5.69 \$3.71 \$3.86 \$4.01 \$4.16 \$2.29 \$2.51 \$2.64 \$2.78 \$2.29 \$2.37 \$2.45 \$2.53 \$3.94 \$4.10 \$4.28 \$4.45 \$3.39 \$3.46 \$3.58 \$3.68 \$1.69 \$1.77 \$1.85 \$1.94 \$1.60 \$1.70 \$1.80 \$1.91 \$3.95 \$4.14 \$4.33 \$4.54 \$1.65 \$1.75 \$1.87 \$1.98 \$2.16 \$2.26 \$2.36 \$2.47	\$1.98 \$2.11 \$2.26 \$2.41 \$2.58 \$3.44 \$3.62 \$3.81 \$4.01 \$4.22 \$4.83 \$5.10 \$5.39 \$5.69 \$6.01 \$3.71 \$3.86 \$4.01 \$4.22 \$2.39 \$2.39 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Duke Energy Corporation	DUK	eroanne.	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 🔗	164844 -	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%
Hawalian 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%	85.91%	65.91%	65.91%	65.91%	65.91%	65.91%
NorthWestorn Corporation	NWE 60		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	1993년 -	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													1000				1000	1000
Cash Flows		[47]	[48]	[49]	[50]	[51]	[52]	[53]	<u>[54]</u>	[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 Valuo
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
Amorican 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	вкн	\$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
Dominian Resources, Inc.	D DATA	\$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 Enorgy 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 200323	\$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
Hawalian Electric Industries, Inc.	HE BARADE	\$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
NorthWostern 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
Southorn 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]
		Initial																	
Company	Tickor	Outflow	12/29/17	12/31/17	6/30/18	<u>6/30/19</u>	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	\$2.15	\$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 Resources, 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	EË	(\$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
Hawalian 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.	1DA	(\$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
Ottor Tall Corporation	OTTR	(\$44.86)	\$0.00	\$0.01	\$1.26	\$1.24	\$1.25	\$1.25	\$1.35	\$1.48	\$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

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

nputs			[2]	[3]	[4]	[5]	[6]	[7]	[8]	(9)	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth Ra	te Estimati Valuo	es High	Long-Torm	P	ayout Ratio	0	Iterative t	Solution	Torminal	Terminal				
Company	Ticker	Prico	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%	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%	5.00%	7.05%	5.38%	66.00%	66.00%	65.91%	(\$0.00)	9.18%	23.56	4.38				
moron 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				
merican 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 D	\$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 Resources, Inc. DTE Energy Company	DTE	\$80.26 \$111,40	5.60% 6.00%	3.64% 4.91%	6.50% 6.00%	6.50% 6.00%	5.38% 5.38%	83.00% 56.00%	87.00% 64.00%	65.91% 65.91%	(\$0.00) (\$0.00)	10.45% 9.63%	23.56 23.56	4.38 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)	9.63% 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				
lawallan 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				
DACORP, Inc.	IDA	\$92.20	5.00%	4.00%	3.50%	5.00%	5.38%		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				
DGE 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 Tall 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				
NM 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				
Southorn 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				
NEC 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				
(cel Enorgy 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%						
											Max Min	12.91% 8.46%						
Projected Annual		54.43	14.51	M.Cl	14.71	14.01		1001	5041	(00)	(00)		10.53	1000	(07)	1000	6001	mm
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
Amoren 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	\$2.53	\$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 Dominion Resources, Inc.	CMS D	\$1.98 \$3.44	\$2.13 \$3.66	\$2.29 \$3.90	\$2.46 \$4.16	\$2.64 \$4.43	\$2.83 \$4.71	\$3.04 \$5.01	\$3.24 \$5.32	\$3.45	\$3.66	\$3.87 \$6.29	\$4.07 \$6.63	\$4.29	\$4.53 \$7.36	\$4.77 \$7.76	\$5.02	\$5.30 \$8.61
DTE Energy Company	DTE	\$3.44 \$4.83	\$5.12	\$5.43	\$4.10 \$5.75	\$6.10	\$4.71 \$6.46	\$5.01 \$6.84	\$5.32 \$7.24	\$5,63 \$7,65	\$5.96 \$8.08	\$6.29 \$8.52	\$8.98	\$6.98 \$9.47	\$9.97	\$7.76 \$10.51	\$8.17 \$11.08	\$11.67
Dike Energy Company Duke Energy Corporation	DUK	\$3.71	\$3.88	\$3.43 \$4.05	\$4.23	\$4.42	\$4.62	\$4.84	\$5.07	\$5,32	\$5.59	\$5.88	\$6.20	\$9.47	\$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	\$3.52	\$3.81	\$4.01	\$4.23	\$4.46	\$4.70	\$4.95	\$5.21	\$5.50
Hawalian 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
DACORP, 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				\$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
	OTR	\$1.60	\$1.71	31.00	W1.55			ΨZ++ ŦΟ	94VV								φ 0 .0.τ	
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
Pinnacle West Capital Corporation PNM Resources, Inc.	PNW PNM	\$3.95 \$1.65	\$4.17 \$1.77	\$4.40 \$1.91	\$4.64 \$2.05	\$4.89 \$2.20	\$5.16 \$2.37	\$5.45 \$2.54	\$5.74 \$2.71	\$6.06 \$2.89	\$6.38 \$3.06	\$3.24	\$3.41	\$3.59	\$3.79	\$3.99	\$8.74 \$4.21	\$9.21 \$4.43
Pinnacle West Capital Corporation PNM Resources, inc. Portland General Electric Company	PNW PNM POR	\$3.95 \$1.65 \$2.16	\$4.17 \$1.77 \$2.29	\$4.40 \$1.91 \$2.43	\$4.64 \$2.05 \$2.57	\$4.89 \$2.20 \$2.73	\$5.16 \$2.37 \$2.89	\$5.45 \$2.54 \$3.06	\$5.74 \$2.71 \$3.24	\$6.06 \$2.89 \$3.42	\$6.38 \$3.06 \$3.61	\$3.24 \$3.81	\$3.41 \$4.02	\$3.59 \$4.23	\$3.79 \$4.46	\$3.99 \$4.70	\$8.74 \$4.21 \$4.95	\$9.21 \$4.43 \$5.22
Pinnacle West Capital Corporation PNM Resources, Inc. Portland Gonoral Electric Company Southern Company	PNW PNM POR SO	\$3.95 \$1.65 \$2.16 \$2.83	\$4.17 \$1.77 \$2.29 \$2.96	\$4.40 \$1.91 \$2.43 \$3.09	\$4.64 \$2.05 \$2.57 \$3.23	\$4.89 \$2.20 \$2.73 \$3.37	\$5.16 \$2.37 \$2.89 \$3.53	\$5.45 \$2.54 \$3.06 \$3.69	\$5.74 \$2.71 \$3.24 \$3.87	\$6.06 \$2.89 \$3.42 \$4.06	\$6.38 \$3.06 \$3.61 \$4,26	\$3.24 \$3.81 \$4.49	\$3.41 \$4.02 \$4.73	\$3.59 \$4.23 \$4.98	\$3.79 \$4.46 \$5.25	\$3.99 \$4.70 \$5.53	\$8.74 \$4.21 \$4.95 \$5.83	\$9.21 \$4.43 \$5.22 \$6.15
Pinnacle West Capital Corporation PNM Resources, Inc. Portland Gonoral Electric Company Southern Company WEC Energy Group, Inc.	PNW PNM POR SO WEC	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69	\$6.38 \$3.06 \$3.61 \$4,26 \$4.95	\$3.24 \$3.81 \$4.49 \$5.22	\$3.41 \$4.02 \$4.73 \$5.50	\$3.59 \$4.23 \$4.98 \$5.80	\$3.79 \$4.46 \$5.25 \$6.11	\$3.99 \$4.70 \$5.53 \$6,44	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15
Pinnacle West Capital Corporation PNM Resources, Inc. Portland Gonoral Electric Company Southern Company WEC Energy Group, Inc.	PNW PNM POR SO	\$3.95 \$1.65 \$2.16 \$2.83	\$4.17 \$1.77 \$2.29 \$2.96	\$4.40 \$1.91 \$2.43 \$3.09	\$4.64 \$2.05 \$2.57 \$3.23	\$4.89 \$2.20 \$2.73 \$3.37	\$5.16 \$2.37 \$2.89 \$3.53	\$5.45 \$2.54 \$3.06 \$3.69	\$5.74 \$2.71 \$3.24 \$3.87	\$6.06 \$2.89 \$3.42 \$4.06	\$6.38 \$3.06 \$3.61 \$4,26	\$3.24 \$3.81 \$4.49	\$3.41 \$4.02 \$4.73	\$3.59 \$4.23 \$4.98	\$3.79 \$4.46 \$5.25	\$3.99 \$4.70 \$5.53	\$8.74 \$4.21 \$4.95 \$5.83	\$9.21 \$4.43 \$5.22 \$6.15
Pinnacle Wast Capital Corporation PNM Resources, Inc. Portland Genoral Electric Company Southern Company WEC Energy Group, Inc. Xeel Energy Inc.	PNW PNM POR SO WEC	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69	\$6.38 \$3.06 \$3.61 \$4,26 \$4.95	\$3.24 \$3.81 \$4.49 \$5.22	\$3.41 \$4.02 \$4.73 \$5.50	\$3.59 \$4.23 \$4.98 \$5.80	\$3.79 \$4.46 \$5.25 \$6.11	\$3.99 \$4.70 \$5.53 \$6,44	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual	PNW PNM POR SO WEC	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19 \$3.05	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39	\$6.38 \$3.06 \$3.61 \$4,26 \$4.95 \$3.57	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual	PNW PNM POR SO WEC	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69	\$6.38 \$3.06 \$3.61 \$4,26 \$4.95	\$3.24 \$3.81 \$4.49 \$5.22	\$3.41 \$4.02 \$4.73 \$5.50	\$3.59 \$4.23 \$4.98 \$5.80	\$3.79 \$4.46 \$5.25 \$6.11	\$3.99 \$4.70 \$5.53 \$6,44	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual Dividend Payout Ratio	PNW PNM POR SO WEC XEL	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019	\$4,89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 	\$5.45 \$2.54 \$3.69 \$4.19 \$3.05 [36] 2022	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] [38]	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032
Pinnacle West Capital Corporation PNM Resources, inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xeel Energy Inc. Projected Annual Dividend Payout Ratio	PNW PNM POR SO WEC XEL Ticker ALE	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] <u>2017</u> 63.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50%	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00%	\$4.89 \$2.20 \$2.73 \$3.77 \$3.74 \$2.74 [34] 2020 61.50%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00%	\$5.45 \$2.54 \$3.69 \$4.19 \$3.05 [36] 2022 61.82%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 62.64%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] 2024 63.45%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] <u>2027</u> 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 55.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 85.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91%
Pinnacle West Capital Corporation NM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Keel Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc.	PNW PNM SO WEC XEL Tickor	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 2017 63.00% 66.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00%	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00%	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19 \$3.05 [36] 2022 61.82% 65.98%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 62.64% 65.97%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] 2024 63.45% 65.95%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09% 65.92%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 55.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 \$5.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91%
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Keel Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Alillant Energy Corporation Ameron Corporation	PNW PNM SO WEC XEL Ticker ALE LNT AEE	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 2017 63.00% 66.00% 64.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00% 63.00%	\$4,64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00% 62.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00% 61.00%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00% 60.00%	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19 \$3.05 [36] <u>2022</u> 61.82% 65.98% 60.98%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 62.64% 65.97% 61.97%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] 2024 63.45% 65.95% 62.95%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94% 63.94%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09% 65.92% 64.92%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 65.91% 65.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91% 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 65.91% 65.91% 65.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91% 65.91%
Pinnacle West Capital Corporation PNM Resources, inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xeel Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc.	PNW PNM POR SO WEC XEL Tickor ALE LNT AEE AEP	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 2017 63.00% 66.00% 64.00% 69.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00% 63.00% 67.50%	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00% 66.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00% 61.00% 64.50%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00% 60.00% 63.00%	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19 \$3.05 [36] <u>2022</u> 61.82% 65.98% 63.48%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 \$2.64% \$5.97% \$63.97%	\$6.06 \$2.89 \$3.42 \$4.06 \$3.39 [38] 2024 83.45% 65.95% 62.95% 64.45%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94% 63.94% 64.94%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.92% 65.92% 65.92% 65.92%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 65.91% 65.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91% 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 65.91% 65.91% 65.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91% 65.91%
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation	PNW PNM SO WEC XEL Tickor ALE LNT AEE AEP BXH	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 2017 63.00% 66.00% 66.00% 69.00% 51.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00% 63.00% 67.50% 51.00%	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00% 62.00% 62.00% 65.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00% 61.00% 64.50% 64.50%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00% 60.00% 63.00% 51.00%	\$5.45 \$2.54 \$3.69 \$4.19 \$3.05 [36] 2022 61.82% 65.98% 63.48% 63.48%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 62.64% 65.97% 61.97% 63.97% 63.97%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] 2024 63.45% 65.95% 62.95% 64.45%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94% 63.94% 64.94%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09% 65.92% 65.42% 63.42%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91% 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91% 65.91% 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 65.91% 65.91% 65.91% 65.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91% 65.91% 65.91%
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Altilant Energy Corporation Amoren Corporation Amoren Corporation Black Hills Corporation CMS Energy Corporation	PNW PNM POR SO WEC XEL Tickor ALE LNT AEE AEP BKH CMS	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$3.14 \$2.33 [31] 2017 63.00% 66.00% 54.00% 54.00% 51.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00% 63.00% 67.50% 51.00%	\$4.64 \$2.05 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00% 51.00% 61.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00% 61.00% 61.00%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00% 60.00% 60.00% 61.00%	\$5.45 \$2.54 \$3.06 \$3.69 \$4.19 \$3.05 [36] 2022 61.82% \$5.98% \$0.98% \$3.48% \$5.348%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 \$2.64% \$5.97% \$63.97% \$5.97% \$5.97% \$5.87%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] [38] 2024 63.45% 65.95% 62.95% 62.45% 63.45%	\$6.38 \$3.06 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94% 63.94% 64.94% 64.27%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09% 65.92% 65.92% 65.42% 65.42% 65.09%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91% 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	\$8.74 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 85.91% 65.91% 65.91% 65.91% 65.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91% 65.91% 65.91%
Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcol Energy Inc. Projected Annual Dividend Payout Ratio Company ALLETE, Inc. Alliant Energy Corporation American Electric Power Company, Inc. Black Hills Corporation CMS Energy Corporation Dominion Resources, Inc. Datt Electric Company	PNW PNM SO WEC XEL Tickor ALE LNT AEE AEP BXH	\$3.95 \$1.65 \$2.16 \$2.83 \$2.96	\$4.17 \$1.77 \$2.29 \$2.96 \$3.14 \$2.33 [31] 2017 63.00% 66.00% 66.00% 69.00% 51.00%	\$4.40 \$1.91 \$2.43 \$3.09 \$3.33 \$2.46 [32] 2018 62.50% 66.00% 63.00% 67.50% 51.00%	\$4.64 \$2.05 \$2.57 \$3.23 \$3.53 \$2.60 [33] 2019 62.00% 66.00% 62.00% 62.00% 65.00%	\$4.89 \$2.20 \$2.73 \$3.37 \$3.74 \$2.74 [34] 2020 61.50% 66.00% 61.00% 64.50% 64.50%	\$5.16 \$2.37 \$2.89 \$3.53 \$3.96 \$2.89 [35] 2021 61.00% 66.00% 60.00% 63.00% 51.00%	\$5.45 \$2.54 \$3.69 \$4.19 \$3.05 [36] 2022 61.82% 65.98% 63.48% 63.48%	\$5.74 \$2.71 \$3.24 \$3.87 \$4.44 \$3.21 [37] 2023 62.64% 65.97% 61.97% 63.97% 63.97%	\$6.06 \$2.89 \$3.42 \$4.06 \$4.69 \$3.39 [38] 2024 63.45% 65.95% 62.95% 64.45%	\$6.38 \$3.06 \$3.61 \$4.26 \$4.95 \$3.57 [39] 2025 64.27% 65.94% 63.94% 64.94%	\$3.24 \$3.81 \$4.49 \$5.22 \$3.76 [40] 2026 65.09% 65.92% 65.42% 63.42%	\$3.41 \$4.02 \$4.73 \$5.50 \$3.97 [41] 2027 65.91% 65.91% 65.91% 65.91%	\$3.59 \$4.23 \$4.98 \$5.80 \$4.18 [42] 2028 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.79 \$4.46 \$5.25 \$6.11 \$4.40 [43] 2029 65.91% 65.91% 65.91% 65.91% 65.91%	\$3.99 \$4.70 \$5.53 \$6.44 \$4.64 [44] 2030 65.91% 65.91% 65.91% 65.91%	\$8.74 \$4.21 \$4.95 \$5.83 \$6.79 \$4.89 [45] 2031 65.91% 65.91% 65.91% 65.91%	\$9.21 \$4.43 \$5.22 \$6.15 \$7.15 \$5.15 [46] 2032 65.91% 65.91% 65.91% 65.91%

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Duke Energy Corporation El Paso Electric Company Hawalian Electric Industries, Inc. IDACORP, Inc. NorthWestern Corporation OGE Energy Corp. Ottor Tall Corporation Pinnacie Wast Capital Corporation Pinnacie Wast Capital Corporation PNM Resources, Inc. Portland General Electric Company Southorn Company WEC Energy Group, Inc. Xcol Energy Inc.	DUK EE IDA NWE OTTR PNW PNM PNR SO WEC XEL		81.00% 50.00% 77.00% 62.00% 67.00% 67.00% 63.00% 63.00% 63.00% 66.00% 62.00%	80,50% 51,75% 75,25% 62,00% 67,75% 68,50% 63,00% 50,25% 58,60% 66,25% 63,00%	80.00% 53.50% 73.50% 57.50% 62.00% 65.00% 65.00% 52.50% 58.00% 66.50% 66.50% 64.00%	79.50% 55.25% 71.75% 59.25% 62.00% 63.00% 54.75% 57.50% 66.75% 65.00%	79.00% 57.00% 61.00% 62.00% 58.00% 63.00% 57.00% 57.00% 57.00% 66.00%	76.82% 58.48% 69.32% 62.65% 69.32% 63.48% 58.48% 58.48% 71.82% 66.82% 65.98%	74.64% 59.97% 62.64% 63.30% 63.30% 63.64% 60.64% 59.97% 59.97% 66.64% 65.97%	72.45% 61.45% 63.95% 63.95% 61.95% 64.45% 61.45% 61.45% 61.45% 66.45% 65.95%	70.27% 62.94% 64.27% 64.60% 63.27% 63.27% 62.94% 62.94% 68.27% 65.24% 65.24%	68.09% 64.42% 65.09% 65.25% 64.59% 65.42% 64.42% 64.42% 64.42% 64.42% 65.92%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	55.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	85.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	
Projectod Annual Cash Flows			[47]	[48]	[49]	[50]	[51]	[52]	[53]	[54]	[55]	[56]	[57]	[58]	[59]	[60]	[61]	[62]	[63]
Company	-													·····			<u>l</u>		Terminal
ALLETE, Inc.	Ticker ALE		2017 \$2.12	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Valuo
Alliant Energy Corporation	LNT		\$2.12 \$1.17	\$2.26 \$1.25	\$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
Ameren Corporation	AEE		\$1.17 \$1.84	\$1.25 \$1.93	\$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
American Electric Power Company, Inc.	AEP		\$1.04 \$3.06	\$1.93 \$3.14	\$2.04 \$3.21	\$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
Black Hills Corporation	BKH		\$1.44	\$1.55	\$3.21 \$1.67	\$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
CMS Energy Corporation	CMS		\$1.30	\$1.35	\$1.50	\$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
Dominion Resources, Inc.	D		\$3.04	\$3.28	\$3.53	\$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
DTE Enorgy Company	DTE		\$2.87	\$3.15	\$3.55	\$3.81 \$3.78	\$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
Duke Energy Corporation	DUK		\$3.14	\$3.26	\$3.39	\$3.52	\$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
El Paso Electric Company	EE		\$1.26	\$1,37	\$3.39 \$1.49	\$3.52 \$1.62	\$3.65 \$1.76	\$3.72	\$3.78	\$3.85	\$3.93	\$4.01	\$4.09	\$4.31	\$4.54	\$4.78	\$5.04	\$5.31	\$189.84
Hawalian Electric Industries, Inc.	HE		\$1.84	\$1.88	\$1.92	\$1.92 \$1.96	\$2.00	\$1.91 \$2.07	\$2.06	\$2.22	\$2.40	\$2.59	\$2.79	\$2.94	\$3.10	\$3.26	\$3.44	\$3.62	\$129.49
IDACORP. Inc.	IDA		\$2.23	\$2.42	\$2.62	\$2.84	\$2.00	\$3.27	\$2.15 \$3.48	\$2.23	\$2.32	\$2.42	\$2.52	\$2.66	\$2.80	\$2.95	\$3.11	\$3.28	\$117.18
NorthWestern Corporation	NWE		\$2.20	\$2.30	\$2.40	\$2.54	\$2.62	\$3.27 \$2.77	\$3.48 \$2.93	\$3.71 \$3.11	\$3.95 \$3.30	\$4.22	\$4.50	\$4,74	\$4.99	\$5.26	\$5.55	\$5.84	\$208.95
OGE Enorgy Corp.	OGE		\$1.20	\$1.29	\$1.38	\$1.48	\$1.58	\$1.66	\$1,74	\$1.82	\$3.30 \$1,90	\$3.51	\$3.73	\$3,93	\$4.15	\$4.37	\$4.60	\$4.85	\$173.46
Otter Tail Corporation	OTTR		\$1.23	\$1.25	\$1.27	\$1.29	\$1.30	\$1.42	\$1.55	\$1.68	\$1.90 \$1.81	\$1,99 \$1,96	\$2.07 \$2.10	\$2.18 \$2.22	\$2.30	\$2.42	\$2.55	\$2.69	\$96.23
Pinnacle West Capital Corporation	PNW		\$2.63	\$2.77	\$2.92	\$3.08	\$3.25	\$3,46	\$3.67	\$3.90	\$4.15	\$1.96 \$4.40	\$4.67	\$2.22 \$4.92	\$2.34	\$2.46	\$2.59	\$2.73	\$97.76
PNM Resources, Inc.	PNM		\$0,85	\$0.96	\$1.08	\$1.21	\$1.35	\$1.48	\$1.63	\$1.77	\$1.93	\$2.08	\$4.67	\$4.92 \$2.37	\$5.19	\$5.47	\$5.76	\$6.07	\$217.08
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	\$2.37 \$2.79	\$2.50 \$2.94	\$2.63	\$2.77	\$2.92	\$104.41
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	\$2.79 \$3.28	\$2.94 \$3.46	\$3.10 \$3.65	\$3.26	\$3.44	\$122.99
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	\$3.20 \$3.82	\$3.46 \$4.03	\$3.65 \$4.25	\$3.84	\$4.05	\$144.81
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	\$4.03 \$2.90	\$3.06	\$4.47 \$3.22	\$4.71 \$3.40	\$168.55 \$121.45
							•								92.00	\$5.00	40.2Z	\$0.40	0121.40
Projected Annual Data																			
Investor Cash Flows		[64]	[65]	[56]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
C++++++		Initial										·							<u> </u>
Company ALLETE, Inc.	Tickor	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
Alliant Energy Corporation		(\$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
Ameren Corporation	AEE	(\$43.28) (\$60.87)	\$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
American Electric Power Company, Inc.	AEP	(\$50.87) (\$74.10)	\$0.00 \$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
Black Hills Corporation	BKH	(\$64,26)	\$0.00	\$0.02 \$0.01	\$3.13 \$1.50	\$3.21 \$1.67	\$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
CMS Energy Corporation	CMS	(\$48.25)	\$0.00	\$0.01	\$1.50 \$1.35		\$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
Dominion Resources, Inc.	D	(\$80.26)	\$0.00	\$0.02	\$1.35 \$3.14	\$1.50 \$3.53	\$1.61 \$3.81	\$1.73	\$1.88	\$2.03	\$2.19	\$2.35	\$2.52	\$2.69	\$2.83	\$2.98	\$3.14	\$3.31	\$128.26
DTE Energy Company	DTE	(\$111.40)	\$0.00	\$0.02	\$2.95	\$3.45	\$3.78	\$4.10 \$4.14	\$4.18 \$4.40	\$4.25	\$4.31	\$4.35	\$4.37	\$4.37	\$4.60	\$4.85	\$5.11	\$5.39	\$208.60
Duke Energy Corporation	DUK	(\$87.07)	\$0.00	\$0.02	\$3.21	\$3.39	\$3.52	\$3.65	\$4.40 \$3.72	\$4.68 \$3.78	\$4.97 \$3.85	\$5.27 \$3.93	\$5.59	\$5.92	\$6.24	\$6.57	\$6.93	\$7.30	\$282.72
El Paso Electric Company	EE	(\$57.15)	\$0.00	\$0.01	\$1.29	\$1.49	\$1.62	\$1.76	\$1.91	\$2,06	\$3.85 \$2.22	\$3.93 \$2.40	\$4.01 \$2.59	\$4.09 \$2.79	\$4.31	\$4.54	\$4.78	\$5.04	\$195.15
Hawallan Electric Industries, Inc.	HE	(\$35,42)	\$0.00	\$0.01	\$1.88	\$1.92	\$1.96	\$2.00	\$2.07	\$2.15	\$2.22	\$2.32			\$2.94	\$3.10	\$3.26	\$3.44	\$133.11
IDACORP, Inc.	IDA	(\$92.20)	\$0.00	\$0.01	\$2.29	\$2.62	\$2.84	\$2.00 \$3.07	\$3.27	\$2,15 \$3,48	\$2.23 \$3.71	ծ∡. 3∡ \$3.95	\$2.42 \$4.22	\$2.52 \$4.50	\$2.66 \$4.74	\$2.80	\$2.95	\$3.11	\$120.46
NorthWestern Corporation	NWE	(\$59.96)	\$0.00	\$0.01	\$2.25	\$2.40	\$2.51	\$2.62	\$2.77	\$3,48 \$2.93	\$3.11	\$3.95 \$3,30	\$4.22 \$3.51	\$4.50 \$3.73		\$4.99	\$5.26	\$5.55	\$214.79
OGE Energy Corp.	OGE	(\$35.55)	\$0.00	\$0.01	\$1.24	\$1.38	\$1.48	\$1.58	\$1.66	\$2.95	\$3.11 \$1.82	\$3.30 \$1.90	\$3.51 \$1,99	\$3.73 \$2.07	\$3.93 \$2.18	\$4.15 \$2.30	\$4.37	\$4.60	\$178.32
Otter Tail Corporation	OTTR	(\$44.86)	\$0.00	\$0.01	\$1.28	\$1.27	\$1.29	\$1.30	\$1.42	\$1.55	\$1.62	\$1.90	\$1.99 \$1.96	\$2.07 \$2.10	\$2.18 \$2.22		\$2.42	\$2.55	\$98.92
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	\$1.96	\$2.10 \$4.67	\$2.22 \$4.92	\$2.34 \$5.19	\$2.46	\$2.59	\$100.50
PNM Resources, Inc.	PNM	(\$42.64)	\$0.00	\$0.00	\$0.88	\$1.08	\$1.21	\$1,35	\$3.40 \$1.48	\$1.63	\$3.90 \$1.77	\$4.15 \$1.93	\$4.40 \$2.08	\$4.67 \$2.25	\$4.92 \$2.37		\$5.47	\$5.76	\$223.15
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	\$2.06 \$2.46	\$2.25 \$2.65	\$2.37 \$2.79	\$2.50 \$2.04	\$2.63	\$2,77	\$107.33
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∠.46 \$3.01	\$2.65 \$3.12	\$2.79 \$3.28	\$2.94 \$3.46	\$3.10	\$3.26	\$126.43
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	\$3.28 \$3.82	\$3.45 \$4.03	\$3.65 \$4.25	\$3.84 \$4,47	\$148.86
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	\$4.03 \$2.90	\$4.25	\$4.47 \$3.22	\$173.26 \$124.85
																46	40.00	44.66	ψ1 2 4.00

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

Inputs			rot				101		(2)									
inputs	~	[1] Stock	[2] EPS	Growth Ra	ito Estimat	[5]	[6] Long-Torm	[7]	[8] ayout Rate	<u>[9]</u>	[10] Iterative :	[11] Solution	[12] Torminal	[13] Terminal				
					Value	Low	20119 10///	•	4,0411444	• .	Hereit of	00101011						
Company	Tickor	Price		First Call	Lino	Growth	Growth	2017	2021	2027	Proof	IRR						
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				
Amoren Corporation	AEE	\$60.87 \$74.40	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. Black Hills Corporation	AEP BKH	\$74.10 \$64.26	4.80% 4.90%	2.77% 4.26%	4.00% 7,50%	2.77% 4.26%	5,38% 5,38%	69.00% 51.00%	63.00% 51.00%	65.91% 65.91%	(\$0.00) (\$0,00)	10.30% 7.81%	23.56 23.56	4.38 4.38				
CMS Energy Corporation	CMS	\$48.25	4.90% 5.50%	7.44%	6.50%	4.20 % 6.50%	5.38%	51.00% 51.00%	61.00%	65.91%	(\$0.00)	9.41%	23.56	4.38				
Dominion Resources, 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	EΕ	\$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				
Hawallan 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.	ÓGE	\$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				
Ottor 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 XEL	\$66.46 \$49.41	5.40% 5.50%	5.27%	6.00%	5.27% 4.50%	5.38% 5.38%	66.00%	67.00%	65.91%	(\$0.00) (\$0.00)	9,56% 9,08%	23.56	4.38				
Xcol Energy Inc.	, AEL	\$49,4 <u>[</u>	5.50%	NA	4,50%	4,50%	5.36%	62.00%	66.00%	65.91%	Mean	8,92%	23.56	4.38				
											Max	10.92%						
											Min	7.40%						
Projected Annual																		
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
0	T .	0040	0047	0040	0010	0000	0004	0000	0000	0004	0005	0000		0000	8000	0000	0004	0000
Company ALLETE, Inc.		2016 \$3,14	2017 \$3,30	2018 \$3,46	2019 \$3,63	2020 \$3,82	2021 \$4.01	2022 \$4,21	2023 \$4.43	2024 \$4.66	2025 \$4.90	2026 \$5.16	2027 \$5,44	2028 \$5.73	2029 \$6.04	2030 \$6.36	2031 \$6.71	2032 \$7.07
Allant 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
Amoren 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 Resources, 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
Hawalian 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 OGE	\$3.39 \$1.69	\$3.44	\$3.49	\$3.54	\$3.60	\$3.65	\$3.73	\$3.83	\$3.97	\$4.13	\$4.32 \$2.57	\$4.56 \$2.71	\$4.80 \$2.85	\$5.06 \$3.00	\$5.33 \$3.17	\$5.62 \$3.34	\$5.92 \$3.52
OGE Enorgy Corp. Otter Tail Corporation	OTTR	\$1.69 \$1.60	\$1.76 \$1.68	\$1.82 \$1.77	\$1.90 \$1,86	\$1.97 \$1.96	\$2.05 \$2.06	\$2.13 \$2.17	\$2.22 \$2.28	\$2.33 \$2.40	\$2.44 \$2.53	\$2.57 \$2.67	\$2.71 \$2.81	5∠.00 \$2.96	\$3.12	\$3.29	\$3.34 \$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	\$2.40	\$5.43	\$5.70	\$ <u>6.01</u>	\$6,33	\$5,67	\$3.2 3 \$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
Southorn 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
Xcol Enorgy 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]
	· · · · · · · · · · · · · · · · · · ·						التعريك		1000									
Company	Tickor		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%
Amoron Corporation	AÉE		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 Resources, Inc.	D DTE		83.00%	84.00%	85.00%	86.00%	87,00%	83.48%	79,97%	76.45% 64.95%	72.94%	69,42% 65,59%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65,91%	65.91% 65.91%	65.91% 65.91%
DTE Energy Company		2002/00/00	56.00%	58.00%	60.00%	62.00%	64.00%	64.32%	64.64%	04.50%	65.27%	03,39%	03,91%	02.31%	03/31/0	00,81%	00.81%	03.81%

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Duke Energy Corporation	DUK	81.00%		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 Baarde	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%
Hawallan 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%
Ottor 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%
Pinnacio 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%
Xcol 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]	 4 8]	[49]	[50]	Kt al	(52)	15-01	15.43	te en	100	(57)	1001	[59]	(00)	(04)	1623	rem
Casil Flows		<u> 4</u> /		[49]	<u>[50)</u>	[51]]əz]	[53]	[54]	(55]	[56]	[57]	[58]	[29]	[60]	[61]	<u>[02]</u>	[63] Torminal
Company	Tickor	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	\$3.45	\$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	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	\$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 Resources, Inc.	D ANNA	\$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 States	\$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
Hawallan Electric Industries, Inc.	HE COLOR	\$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 Tall 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
Xcol 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]
		Initial																	
Company	_Tickor	_ 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	\$2.13	\$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
Ameron 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	вкн	(\$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 Resources, 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
Hawalian 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.	ÓGE	(\$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 Average EPS Growth Rate Estimate in First Stage

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth Ra	Value	os	Long-Term	P	ayout Rati	0	Iterative	Solution	Terminal	Terminal				
Сотралу	Ticker	Prico	Zacks	First Call	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				
Amoren Corporation	AEE	\$58.43	7.00%	7.00%	5.00%	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 CMS Energy Corporation	BKH CMS	\$66,70 \$47,39	4.90% 6.50%	4.26% 7.44%	7.50% 6.50%	5.55% 6.81%	5.38% 5.38%	51.00%	51.00%	65.91%	(\$0.00)	8.25%	23.56 23.56	4.38				
Dominion Resources, Inc.	D	\$79.20	5.60%	3.64%	6.50%	5.25%	5.38%	61,00% 83.00%	61.00% 87.00%	65,91% 65.91%	(\$0.00) (\$0.00)	9.76% 9.79%	23.56	4.38 4.38				
DTE Energy Company	DTE	\$109.30	5.00%	4.91%	6.00%	5.64%	5.38%	56.00%	64.00%	65.91%	(\$0.00)	9.75%	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				
Hawalian 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 Enorgy 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				
Ottor Tall 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 XEL	\$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.	<u>AEL</u>	\$48.05	5.50%	NA	4.50%	5.00%	5.38%	62.00%	66.00%	65.91%	(\$0.00) Mean	9.65%	23.56	4.38				
											Max	9.67% 12.54%						
											Min	8.25%						
Projected Annual											(1)	0.1070						
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 AEP	\$2.68 \$4.23	\$2,86	\$3.05	\$3.25	\$3.47	\$3.70	\$3.94	\$4.19 \$5.65	\$4.44	\$4.69	\$4.96	\$5.22	\$5.51	\$5.80	\$6.11	\$6.44	\$6.79
American Electric Power Company, Inc. Black Hills Corporation	BKH	\$4.23 \$2.63	\$4.39 \$2.78	\$4.56 \$2.93	\$4.74 \$3.09	\$4,92 \$3,26	\$5.11 \$3.45	\$5.32 \$3.64	\$5 <i>.</i> 55 \$3.84	\$5.81 \$4.05	\$6.09 \$4.27	\$6.41 \$4,50	\$6.75 \$4.74	\$7.11 \$4.99	\$7.50 \$5.26	\$7.90 \$5.54	\$8.32 \$5.84	\$8.77 \$6.16
CMS Energy Corporation	CMS	\$1.98	\$2.10	\$2.33	\$3.09 \$2.41	\$3.20 \$2.58	\$2.75	\$3.64 \$2.93	\$3.04 \$3.12	\$4.05 \$3.31	\$4.27 \$3.50	\$4,50 \$3,70	\$4.74 \$3.90	\$4,99 \$4,11	\$5.26 \$4.33	ээ,54 \$4,56	\$5.84 \$4.81	\$5.07
Dominion Resources, 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 Enorgy 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
Hawallan 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
IDAGORP, 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
Ottor 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. Portland General Electric Company	PNM POR	\$1.65 \$2.16	\$1.75 \$2.26	\$1.87 \$2,36	\$1.98 \$2,47	\$2.11 \$2.59	\$2.24 \$2.70	\$2.38 \$2.83	\$2.53 \$2.97	\$2.68 \$3.12	\$2.83 \$3.28	\$2.98 \$3.45	\$3.15 \$3.64	\$3,31 \$3,83	\$3.49 \$4.04	\$3.68 \$4.25	\$3.88 \$4.48	\$4.09 \$4.72
Southern Company	SO	\$2.83	\$2,93	\$3.03	\$2.47 \$3.13	\$2.59 \$3.24	\$3.35	\$2.83 \$3.48	\$3.62	\$3.78	\$3.28 \$3.96	\$3.45 \$4.16	\$4.38	\$3.83 \$4.62	\$4.87	94.20 \$5.13	\$4.48 \$5.40	\$4.72
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]
<u> </u>																		
Company	Ticker		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
ALLETE, Inc.	ALE		63.00%		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%
Allant Energy Corporation			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% cc.01%
Ameron Corporation American Electric Power Company, Inc.	AEE AEP		64.00% 69.00%		62.00% 66.00%	61.00% 64.50%	60.00% 63.00%	60.98% 63.48%	61.97% 63.97%	62.95% 64.45%	63.94% 64.94%	64,92% 65,42%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%	65.91% 65.91%
Black Hills Corporation	BKH		51.00%		51.00%	51.00%	51.00%	63.48% 53.48%	55,97%	58.45%	60.94%	63.42%	65.91% 65.91%	65.91%	65,91%	65.91% 65.91%	65.91% 65.91%	65.91%
CMS Energy Corporation	CMS		61.00%		61.00%	61.00%	61.00%	53.48% 61.82%	62.64%	50.45% 63.45%	64.27%	65.09%	65.91%	65,91%	65.91%	65.91%	65.91%	65.91%
Dominion Resources, Inc.	D		83,00%		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%		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%
···· · ·		2001 Million (1990) 611				/*									-			

Duko Energy Corporation El Paso Electric Company Hawalian Electric Industrios, Inc. IDACORP, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacle West Capital Corporation PNM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc.	DUK EE IDA NWE OTTR PNW PNM POR SO WEC XEL		81.00% 50.00% 77.00% 54.00% 67.00% 67.00% 63.00% 48.00% 59.00% 66.00% 62.00%	80.50% 51.75% 75.25% 55.75% 62.00% 67.75% 68.50% 63.00% 50.25% 58.50% 63.25% 66.25% 63.00%	80.00% 53.50% 73.50% 57.50% 68.50% 65.00% 65.00% 63.00% 52.50% 58.00% 66.50% 64.00%	79.50% 55.25% 71.75% 59.25% 69.25% 61.50% 63.00% 54.75% 63.00% 54.75% 66.75% 65.00%	79.00% 57.00% 61.00% 62.00% 58.00% 57.00% 57.00% 57.00% 67.00% 66.00%	76.82% 58.48% 69.32% 61.82% 62.65% 69.32% 63.48% 58.48% 58.48% 58.48% 66.82% 65.98%	74.54% 59.97% 68.64% 62.64% 63.30% 68.64% 60.64% 63.97% 59.97% 70.64% 65.97%	72,45% 61,45% 63,95% 63,95% 61,95% 61,95% 61,45% 61,45% 61,45% 66,45% 66,45%	70.27% 62.94% 67.27% 64.27% 64.60% 67.27% 63.27% 64.94% 62.94% 62.94% 68.27% 66.27%	68.09% 64.42% 66.59% 65.25% 65.59% 64.59% 64.59% 64.42% 64.42% 67.09% 66.09% 65.92%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 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	0000	0000	0004									Terminal
ALLETE, Inc.	ALE	the c	\$2.09	\$2.19	\$2.30	\$2.41	\$2.53	2022 \$2.71	2023 \$2.90	2024 \$3.10	2025 \$3.31	2026	2027	2028	2029	2030	2031	2032	Value
Allant Energy Corporation	LNT		\$1.16	\$1.23	\$1.31	\$1.40	\$1.49	\$1.58	\$2.90 \$1.68	\$3.10 \$1.78	\$3.31 \$1.88	\$3.54 \$1.99	\$3.78 \$2.09	\$3.98 \$2.21	\$4.19 \$2.32	\$4.42 \$2.45	\$4.66 \$2.58	\$4,91 \$2,72	\$175.45
Ameren Corporation	AEE		\$1.83	\$1.92	\$2.02	\$2.12	\$2.22	\$2.40	\$2.59	\$2,79	\$3,00	\$3.22	\$2.09	\$3.63	\$2.32 \$3.82	\$2.45 \$4.03	\$2.58 \$4.25	\$2.72 \$4.47	\$97.22 \$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 Resources, Inc.	0_		\$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 El Paso Electric Company	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
Hawalian Electric Industries, Inc.	EE HE		\$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
DACORP, Inc.	IDA		\$1.82 \$2.22	\$1.84 \$2.38	\$1.86 \$2.56	\$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
NorthWestern Corporation	NWE		\$2.16	\$2.22	\$2.56 \$2.28	\$2.75 \$2.34	\$2.95 \$2.41	\$3.12	\$3.30	\$3.51	\$3.73	\$3.97	\$4.24	\$4.46	\$4.70	\$4.96	\$5.22	\$5.51	\$196.84
OGE Energy Corp.	OGE		\$1.19	\$1.26	\$2.20 \$1.33	\$2.34 \$1.41	\$2.41 \$1.49	\$2.51 \$1.55	\$2.63 \$1.61	\$2.76	\$2.92	\$3.09	\$3.29	\$3.47	\$3.65	\$3.85	\$4.06	\$4.28	\$152.87
Otter Tall Corporation	ATTO		\$1.22	\$1.23	\$1.24	\$1.25	\$1.25	\$1.35	\$1.01 \$1.46	\$1.67 \$1.58	\$1.74 \$1.71	\$1.81 \$1.84	\$1.89 \$1.97	\$1.99 \$2.08	\$2.10 \$2.19	\$2.21	\$2.33	\$2.46	\$87.93
Pinnacie 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	\$2.00 \$4.66	\$2.19 \$4,91	\$2.31 \$5.17	\$2.44 \$5.45	\$2.57 \$5.74	\$91.75 \$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	\$205.33 \$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	1999999	\$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]	1711	[72]	[73]	[74]	[75]	[76]	1771	701		(0.01	(0.41)
		Initial		[55]		[00]	1001	1.01		(14)	(15)	[(*)]	(/5)	[/0]	[77]	[78]	[79]	[80]	[81]
Сотралу	Ticker	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	\$2.15	\$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
Allant 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
Amoron 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	\$154.43
American Electric Power Company, Inc. Black Hills Corporation	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
CMS Energy Corporation	BKH CMS	(\$66.70) (\$47.39)	\$0.00 \$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
Dominion Resources, Inc.	D	(\$79,20)	\$0.00	\$0.01 \$0.02	\$1.33 \$3.08	\$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
DTE Energy Company	DTE	(\$109.30)	\$0.00	\$0.02	\$2.94	\$3.41 \$3.42	\$3.63 \$3.73	\$3.86 \$4.07	\$3.90 \$4.32	\$3.94 \$4.58	\$3.96 \$4.85	\$3.98	\$3.99	\$4.00	\$4.21	\$4.44	\$4.68	\$4.93	\$190.86
Duke Energy Corporation	DUK	(\$85.84)	\$0.00	\$0.02	\$3.18	\$3.33	\$3.44	\$3.55	94.32 \$3.60	\$4.56 \$3.65	\$4.85 \$3.71	\$5.14 \$3.77	\$5.45 \$3.84	\$5.77 \$3.92	\$6.08 \$4,13	\$6.41	\$6.75	\$7.11	\$275.53
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	\$3.04 \$2.56	\$2.76	φ4.13 \$2.91	\$4.35 \$3.07	\$4,58 \$3,23	\$4.83 \$3.40	\$187.05
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	\$2.35	\$2.30 \$2.23	\$2.33	\$2.91 \$2.46	\$3.07 \$2.59	\$3.23 \$2.73	\$3.40 \$2.87	\$131.85
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	\$2.59 \$4.70	\$4.96	\$5.22	\$111.28 \$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	\$5.22 \$4.06	\$202.35
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
Ottor 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 WEC Energy Group Jac	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. Xcol Energy Inc.	WEC XEL	(\$64.40) (\$48.05)	\$0.00 \$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
11111 - 1111 B7 1114		(0.00)	90.00	\$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

Multi-Stage Growth Discounted Cash Flow Model - Terminal P/E 180 Day Average Steck Price High EPS Growth Rate Estimate in First Stage

In the second seco								in Nato La		at Glage								
Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]				
		Stock	EPS	Growth R			Long-Term	1	Payout Rat	lo	Itorative	Solution	Terminal	Terminal	•			
Company	Ticker	Price	Zacks	First Call	Valuo Lino	High Growth	Ourse als											
ALLETE, Inc.	ALE	\$74.84	7.20%	5.00%	5.00%	7.20%	Growth 5.38%	2017 63.00%	2021 61.00%	2027	Proof	IRR		PEG Ratio				
Allant Energy Corporation	LNT	\$41.99	6.40%	7.05%	6.00%	7.05%	5.38%	66.00%	66.00%	65.91% 65.91%	(\$0.00) (\$0.00)	10.05%	23.56	4.38				
Ameron Corporation	AEE	\$58.43	7.00%	7.00%	6.00%	7.00%	5.38%	64.00%	60.00%	65.91%	(\$0.00)	9.46% 10,75%	23.56 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 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 Resources, Inc. DTE Enorgy Company	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				
Duke Enorgy Corporation	DTE DUK	\$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				
El Paso Electric Company	EE	\$85.84 \$54.81	4.00% 5.20%	3.23% 5.30%	4.50%	4.50%	5.38%	81.00%		65.91%	(\$0.00)	9.12%	23.56	4.38				
Hawallan Electric Industries, Inc.	HE	\$34.21	4.20%	4.50%	5.00% 1.50%	5.30% 4.50%	5.38%	50.00%	57.00%	65.91%	(\$0.00)	9.09%	23.56	4.38				
IDACORP, Inc.	IDA I	\$89,17	5.00%	4.00%	3.50%	4.50% 5.00%	5.38% 5.38%	77.00% 54.00%	70.00% 61.00%	65.91% 65.91%	(\$0.00)	13.27%	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) (\$0.00)	9.13% 11.15%	23.56 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 4.38				
Otter Tall 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 Southern 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				
WEC Enorgy Group, Inc.	SO WEC	\$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				
Xcol Energy Inc.	XEL	\$64.40 \$48.05	5.40%	5.27%	6.00%	6.00%	5.38%	66.00%	67.00%	65.91%	(\$0.00)	10.31%	23.56	4.38				
yaar chorgy no.	VEL	\$40.05	5.50%	NA	4.50%	5.50%	5.38%	62.00%	66.00%	65.91%	(\$0.00)	9.95%	23.56	4.38				
											Mean	10.24%						
											Max Min							
Projected Annual											14(01)	0.9776						
Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
A							· · · · · · · · · · · · · · · · · · ·					()		1001		(LO)	[23]	
Company ALLETE, Inc.	Ticker	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Alliant Energy Corporation	ALE LNT	\$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
Ameron Corporation	AEE	\$1.65 \$2.68	\$1.77 \$2.87	\$1.89 \$3.07	\$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
American Electric Power Company, Inc.	AEP	\$4.23	\$4.43	\$3.07 \$4.65	\$3.28 \$4,87	\$3.51 \$5.10	\$3.76 \$5.35	\$4.01	\$4.27	\$4.54	\$4.80	\$5.08	\$5.35	\$5.64	\$5.94	\$6.26	\$6.59	\$6.95
Black Hills Corporation	вкн	\$2.63	\$2.83	\$3.04	\$3.27	\$3.51	\$3.78	\$5.61 \$4.05	\$5.89 \$4.32	\$6.19 \$4.60	\$6.51 \$4.88	\$6.85 \$5.16	\$7.22	\$7.61	\$8.02	\$8.45	\$8.91	\$9.39
CMS Energy Corporation	CMS	\$1.98	\$2.13	\$2.29	\$2.46	\$2.64	\$2.83	\$3.04	\$3.24	\$3.45	34.60 \$3.66	\$3.87	\$5.44 \$4.07	\$5.73 \$4.29	\$6.04 \$4.53	\$6.36	\$6.70	\$7.06
Dominion Resources, 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	\$5.98	\$4.53 \$7.36	\$4.77 \$7.76	\$5.02 \$8.17	\$5.30 \$8.61
DTE Enorgy 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	\$3.17 \$11,08	\$8.61
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
Hawalian Electric Industries, Inc. IDACORP, Inc.	HÉ IDA	\$2.29 \$3,94	\$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
NorthWestern Corporation	NWE	\$3,94 \$3,39	\$4.14 \$3.54	\$4.34 \$3.70	\$4.56 \$3.87	\$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
OGE Energy Corp.	OGE	\$1,69	\$3.54 \$1.79	\$3.70 \$1.90	\$3.87 \$2.01	\$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
Otter Tail Corporation	OTTR	\$1.60	\$1.75	\$1.83	\$2.01	\$2.13 \$2.10	\$2.26 \$2.24	\$2.39 \$2.40	\$2.53	\$2.68	\$2.83	\$2.98	\$3.14	\$3.31	\$3.49	\$3.68	\$3.88	\$4.08
Pinnacle West Capital Corporation	PNW	\$3,95	\$4.17	\$4.40	\$4.64	\$4.89	\$5.16	\$5,45	\$2,55 \$5.74	\$2.71 \$6.06	\$2.87 \$6.38	\$3.03 \$6.73	\$3.19	\$3.36	\$3.55	\$3.74	\$3,94	\$4,15
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	\$7.09 \$3.41	\$7.47 \$3.59	\$7.87	\$8.30	\$8,74	\$9.21
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	\$3.24 \$3.81	\$4.02	\$4.23	\$3.79 \$4.46	\$3.99 \$4.70	\$4.21 \$4.95	\$4.43 \$5,22
Southorn 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	\$5,22 \$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 Enorgy 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]	19.53	1001	1070									
	·····	· · · · · ·	[01]	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	2020	2020	0000	0004	
ALLETE, Inc.	ALE	and the second	63.00%	62.50%	62.00%	61.50%	61.00%	61.82%	62.64%	63.45%	64.27%	65.09%	65.91%	2028 65.91%	2029 65.91%	2030	2031	2032
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%	65.91% 65.91%	65.91% 65.91%
Ameron 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%	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 Dominion Resources, Inc.	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 Resources, Inc. DTE Energy Company	D DTE		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%
one energy ophipany	DIE	0,40403143	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 El Paso Electric Company Hawalian Electric Industries, Inc. IDACORP, Inc. NorthWestern Corporation OGE Energy Corp. Otter Tail Corporation Pinnacio Wost Capital Corporation Pinnacio Wost Capital Corporation PMM Resources, Inc. Portland Goneral Electric Company Souther Company	DUK EE IDA NWE OGE PNW PNM POR SO		81.00% 50.00% 77.00% 54.00% 62.00% 67.00% 72.00% 63.00% 48.00% 59.00% 75.00%	80.50% 51.75% 55.75% 62.00% 67.75% 68.50% 63.00% 50.25% 58.50% 74.50%	80.00% 53.50% 73.50% 57.50% 62.00% 68.50% 65.00% 63.00% 52.50% 58.00% 74.00%	79.50% 55.25% 71.75% 59.25% 62.00% 69.25% 61.50% 63.00% 54.75% 57.50% 73.50%	79.00% 57.00% 70.00% 61.00% 62.00% 70.00% 58.00% 57.00% 57.00% 57.00% 73.00%	76.82% 58.48% 69.32% 61.82% 62.65% 69.32% 63.32% 63.48% 58.48% 71.82%	74.64% 59.97% 68.64% 62.64% 63.30% 68.64% 60.64% 63.97% 59.97% 59.97% 70.64%	72.45% 61.45% 67.95% 63.45% 63.95% 67.95% 61.95% 64.45% 61.45% 61.45% 61.45% 69.45%	70.27% 62.94% 67.27% 64.60% 67.27% 63.27% 64.94% 62.94% 62.94% 68.27%	68.09% 64.42% 65.59% 65.25% 66.59% 64.59% 64.42% 64.42% 64.42% 64.42% 67.09%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 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%	
Xcol 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] Terminal
Company	Ticker		2017	2018	2019	2020	2021	2022	2023	2024	2025_	2026	2027	2028	2029	2030	2031	2032	Valuo
ALLETE, Inc.	ALE	and a start	\$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
Amoron 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 \$3.98	\$5.57 \$4.19	\$5.87 \$4,42	\$6.19 \$4.65	\$221.15 \$166.43
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 \$2.69	\$3.77 \$2.83	\$3.98 \$2.98	\$4.19 \$3.14	\$4.42 \$3.31	\$4.65 \$3,49	\$106.43
CMS Energy Corporation	CMS		\$1.30	\$1.39	\$1.50	\$1.61	\$1.73	\$1.88	\$2.03	\$2.19	\$2.35 \$4.35	\$2.52	\$4.37	≎2.63 \$4.60	\$2.98 \$4.85	\$3.14 \$5.11	\$5.39	\$5.68	\$202.92
Dominion Resources, Inc.	D DTE		\$3.04 \$2.87	\$3.28 \$3.15	\$3.53 \$3.45	\$3.81 \$3.78	\$4.10 \$4.14	\$4.18 \$4,40	\$4.25 \$4.68	\$4,31 \$4,97	34.35 \$5.27	\$4.37 \$5.59	\$4.37 \$5.92	\$6.24	\$6.57	\$6.93	\$7.30	\$7.69	\$202.92
DTE Energy Company	DUK		\$2.87 \$3.14	\$3.15	\$3.45 \$3.39	\$3.78 \$3.52	\$4.14 \$3.65	\$4.40 \$3.72	\$4.66 \$3.78	\$4.97 \$3.85	\$3.93	\$5.59 \$4.01	\$5.92 \$4.09	эр.24 \$4.31	\$4.54	\$4.78	\$7.30 \$5.04	\$7.09 \$5.31	\$189.84
Duke Energy Corporation			\$3.14 \$1.26	\$3.26 \$1.37	\$3.39 \$1.49	⊅3.52 \$1.62	\$3.65 \$1,76	⊅3.7∠ \$1.91	\$3.78 \$2.06	\$3.85 \$2.22	\$3.93 \$2.40	\$4.01 \$2.59	\$2.79	\$2.94	\$4.54 \$3,10	\$4.76	\$3.44	\$3.62	\$129.49
El Paso Electric Company Hawallan Electric Industries, Inc.	EE HE		\$1.26 \$1.84	\$1.37 \$1.88	\$1,49 \$1.92	\$1.96 \$1.96	\$2.00	\$2,07	\$2.08 \$2.15	\$2.22 \$2.23	\$2.40	⇒2.59 \$2.42	\$2.52	\$2.66	\$2.80	\$2.95	\$3.11	\$3.02	\$125.45
DACORP, 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	\$2.62	\$2.54	\$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
Ottor Tall 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
Projectod Annual Data Invostor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[77]	[78]	[79]	[80]	[81]
		Initial	·····							·									
Compony	Tieker	Outflow	10/00/17	12/31/17	6/30/18	6/30/10	6/30/20	6/30/21	6/20/22	6/20/23	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

		Initial																	
Company	Tickor	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
Ameron 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 Resources, 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	\$8.57	\$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	EΕ	(\$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
Hawalian 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	(\$60,35)	\$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

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

Inputs		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	191	[10]	[11]	(12)	[13]				
10000		Stock		Growth Ra			Long-Term		ayout Rati		Itorative		Terminal	Terminal				
0	. .		7	Elect O all	Value	Low	_	···-	- 									
Company ALLETE, Inc.	Tickor ALE	Price \$74.84	Zacks 7.20%	First Call 5.00%	Line 5.00%	Growth 5.00%	Growth 5.38%	2017 63.00%	2021 61,00%	2027 65.91%	Proof (\$0.00)	IRR 8.72%	23.56	PEG Ratio 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				
Amoron 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	8KH	\$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 Resources, 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 El Paso Electric Company	DUK EE	\$85.84 \$54.81	4.00% 5.20%	3.23% 5.30%	4.50% 5.00%	3.23% 5.00%	5.38% 5.38%	81.00% 50.00%	79.00%	65.91% 65.91%	(\$0.00) (\$0.00)	8.33% 8.91%	23.56 23.56	4.38 4.38				
Hawailan Electric Industries, Inc.	HE	\$34.21	4.20%	5.50% 4.50%	1.50%	1.50%	5.38%	50.00% 77,00%	57.00% 70.00%	65.91% 65.91%	(\$0.00)	8.91% 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				
Ottor 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 WEC Energy Group, Inc.	SO WEC	\$49.86 \$64.40	4.50% 5,40%	2.33% 5.27%	3.50% 6.00%	2.33% 5.27%	5.38% 5,38%	75.00% 66.00%	73.00% 67.00%	65.91% 65.91%	(\$0.00) (\$0.00)	10.22% 9.86%	23.56 23.56	4.38 4.38				
Xcol Energy Inc.	XEL	\$48.05	5.50%	NA	4.50%	4.50%	5.38%	62.00%	66.00%	65.91% 65.91%	(\$0.00)	9.34%	23.56	4.38				
Add Enorgy inte.	NCC_	040.00	0.0078	00	4.00 10	4.00 /0	0.0076	02,0070	00.00 /0	00.0174	Mean	9.13%	20.30					
											Max	11.27%						
Designational Arrows and											Min	7.49%						
Projected Annual Earnings per Share		[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	[25]	[26]	[27]	[28]	[29]	[30]
Currings per onaro		[1-4]	1101	0.01		1101	[13]	[20]	[2]]	221	20	(24)	[20]	20	(27)	[20]	12.01	[00]
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 Amorican Electric Power Company, Inc.	AEE AEP	\$2.68 \$4.23	\$2.84 \$4.35	\$3.01 \$4.47	\$3.19 \$4.59	\$3.38 \$4.72	\$3.59 \$4.85	\$3.80 \$5.00	\$4.02	\$4.25	\$4.48	\$4.73 \$5.92	\$4.98 \$6.24	\$5.25	\$5.53 \$6.93	\$5.83 \$7.30	\$6.15 \$7.69	\$6.48
Black Hills Corporation	BKH	\$4.23 \$2.63	\$4.35 \$2.74	\$4.47 \$2.86	\$4.59 \$2.98	\$4.72 \$3.11	\$4.85 \$3.24	\$3.38	\$5.19 \$3.54	\$5.40 \$3.71	\$5.64 \$3.90	\$5.92 \$4.10	\$6.24 \$4.32	\$6.57 \$4.55	\$6.93 \$4.80	\$7.30	\$7.69 \$5.33	\$8.11 \$5.61
CMS Energy Corporation	CMS	\$1.98	\$2.11	\$2.25	\$2.39	\$2.55	\$2.71	\$2.88	\$3.06	\$3.24	\$3.50 \$3.43	\$3.62	\$4.32 \$3.81	\$4.02	\$4.24	\$4.46	\$4.70	\$4.96
Dominion Resources, 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
Hawalian 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. NorthWestern Corporation	IDA NWE	\$3.94 \$3.39	\$4.08 \$3.44	\$4.22 \$3.49	\$4.37 \$3.54	\$4.52 \$3.60	\$4.68 \$3.65	\$4.86 \$3.73	\$5.06	\$5.28 \$3.97	\$5.53 \$4.13	\$5.81 \$4.32	\$6.13 \$4.56	\$6.46 \$4.80	\$6.80 \$5.06	\$7.17 \$5.33	\$7.56 \$5.62	\$7.96 \$5.92
OGE Energy Corp.	OGE	\$1.69	\$3.44 \$1.76	\$3.49 \$1.82	ֆ 3.54 \$1.90	\$3.60 \$1.97	\$2.05	\$3.73 \$2,13	\$3.83 \$2.22	\$3.97 \$2.33	\$4.13 \$2.44	\$4.32 \$2.57	\$4.56 \$2,71	\$4.80 \$2.85	\$3.00	\$5.33 \$3.17	\$5.62 \$3.34	\$3.52
Otter Tall 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 XEL	\$2.96 \$2.21	\$3.12	\$3.28 \$2.41	\$3.45	\$3.64	\$3.83	\$4.03	\$4.24	\$4.47	\$4.71	\$4.96	\$5.23 \$3.69	\$5.51	\$5.80	\$6.12	\$6.44	\$6.79
Xcel Energy Inc.		34.21	\$2.31	<u>φ</u> 2.4 Ι	\$2.52	\$2.64	\$2.75	\$2.88	\$3.02	\$3.17	\$3.33	\$3.50	<u></u>	\$3.89	\$4.10	\$4.32	\$4.55	\$4.80
Projected Annual																		
Dividend Payout Ratlo			[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	the start	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%	56.00%	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%
Ameron 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	вкн		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 Resources, 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	.99933359.	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 El Paso Electric Company Hawailan Electric Company IDACORP, Inc. NorthWestern Corporation OGE Energy Carp. Otter Tall Corporation Pinnacle West Capital Corporation PINM Resources, Inc. Portland General Electric Company Southern Company WEC Energy Group, Inc. Xcel Energy Inc.	DUK EE HE IDA NWE OGE OTTR PNW PNM POR SO WEC XEL	81.00% 50.00% 77.00% 54.00% 62.00% 67.00% 72.00% 63.00% 48.00% 59.00% 59.00% 66.00% 62.00%	80.50% 51.75% 55.75% 62.00% 67.75% 68.50% 63.00% 50.25% 58.50% 74.50% 66.25% 63.00%	80.00% 53.50% 73.50% 57.50% 62.00% 68.50% 63.00% 63.00% 52.50% 58.00% 74.00% 66.50% 64.00%	79.50% 55.25% 71.75% 59.25% 62.00% 69.25% 61.50% 63.00% 54.75% 57.50% 73.50% 65.00%	79.00% 57.00% 61.00% 62.00% 62.00% 58.00% 63.00% 57.00% 57.00% 57.00% 63.00% 66.00%	76.82% 58.48% 69.32% 61.82% 62.65% 69.32% 59.32% 63.48% 58.48% 58.48% 71.82% 66.82% 65.98%	74.64% 59.97% 68.64% 63.30% 68.64% 60.64% 63.97% 59.97% 59.97% 70.64% 66.64% 65.97%	72.45% 61.45% 67.95% 63.95% 63.95% 67.95% 61.95% 64.45% 61.45% 61.45% 61.45% 69.45% 66.45% 65.95%	70.27% 62.94% 67.27% 64.60% 67.27% 63.27% 63.27% 64.94% 62.94% 62.94% 68.27% 66.27% 65.94%	68.09% 64.42% 66.59% 65.25% 66.59% 64.59% 64.42% 64.42% 64.42% 67.09% 66.09% 65.92%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91% 65.91%	
Projected Annual Cash Flows		[47]	[48]	(49)	501	1511	[52]	(53)	[54]	(55)	(561	1571	[58]	[59]	[60]	[61]	1621	1631
		 1471	(40)	(40)	1301	1011		(00)	10-1	(00)	(00)		(00)		1001	101		Terminal
Company	Ticker	 2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	\$3.85	\$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 Resources, 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	\$4.52	\$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
Hawalian Electric Industries, Inc.	HE S	\$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

\$3.00

\$2.34

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\$1,53

\$1,38

\$3,18

\$1.44

\$1,69

\$2.38

\$2.83 \$1.99

\$3.35

\$2.54

\$1.58

\$1.49

\$3.35

\$1.55

\$1.82

\$2.43

\$2.97 \$2.09

\$3.56

\$2.67

\$1.64

\$1.60

\$3.53

\$1.68

\$1.95

\$2.50

\$3.12 \$2.20

\$3.78

\$2.82

\$1.71

\$1.72

\$3.73

\$1.81

\$2.10

\$2.57

\$3.28

\$2.31

\$4.04

\$3.00

\$1.78

\$1.85

\$3.96

\$1.95

\$2.26

\$2.66

\$3.44

\$2.43

\$4.26

\$3.16

\$1.88

\$1.95

\$4.17

\$2.06

\$2.38

\$2.81

\$3.63

\$2.56

\$4.48

\$3.33

\$1.98

\$2.06

\$4.40

\$2.17

\$2.51

\$2.96

\$3.83

\$2.70

\$4.73

\$3.51

\$2.09

\$2.17

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\$2.65

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\$4.03 \$2.85

\$4.98

\$3.70

\$2.20

\$2.28

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\$2.41

\$2.79

\$3.29

\$4.25

\$3.00

\$5.25

\$3.90

\$2.32

\$2.41

\$5.15

\$2.54

\$2.94

\$3.46

\$4,48

\$3.16

\$2.85

\$2.26

\$1.43

\$1.20

\$2.91

\$1.23

\$1.48

\$2,32

\$2.56 \$1.82

\$2,35

\$2.17

\$1.24

\$1.21

\$2.65

\$0.92

\$1.36

\$2.21

\$2.17 \$1.52

\$2.51

\$2.20

\$1.30

\$1,21

\$2.74

\$1.02

\$1.40

\$2.24

\$2.30 \$1.61

\$2.68

\$2.23

\$1.36

\$1,21

\$2.82

\$1.12

\$1.44

\$2.28

\$2.43 \$1.71

\$2.20

\$2.13

\$1.18

\$1.21

\$2.57

\$0.84

\$1.32

\$2.17

\$2.06

\$1.43

IDA

NWE

OGE

OTTR

PNW

PNM

POR

SO

WEC XEL

Pinnacle West Capital Corporation

Portland General Electric Company

NorthWestern Corporation OGE Enorgy Corp.

Otter Tail Corporation

PNM Rosources, Inc.

Southern Company

Xcel Energy Inc.

WEC Energy Group, Inc.

IDACORP, Inc.

Projected Annual Data																			
Investor Cash Flows		[64]	[65]	[66]	[67]	[68]	[69]	[70]	[71]	[72]	[73]	[74]	[75]	1761	[77]	[78]	[79]	[80]	[81]
Investor Castl Plows		Initial	[03]	[00]	101		[03]	1001	17.0	(4)	1.0	10.41	11.21	1/0]		1.01		[00]	
Comments	Ticker	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
Company ALLETE, Inc.	ALE	(\$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
			\$0.00 \$0.00	\$0.01 \$0.01			\$2.35 \$1.37	\$2.44 \$1.46		\$2.77 \$1.63	\$1.72	\$1.82	\$1.92	\$3.58 \$2.02	\$2,13	\$2.25	\$2.37	\$2.49	\$96.58
Allant Energy Corporation	LNT	(\$41.99)			\$1.19	\$1.30			\$1.54					\$3.28	\$3,46	\$3.65	\$3.84	\$4.05	\$156.87
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						
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	вкн	(\$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 Resources, 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	EÉ	(\$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
Hawajjan 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
Ottor 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
Pinnaclo 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
ALOI CININY ML.		(040.00)		40.01	31,40			91.02	91.50			Q2.20		W44,70					

\$187.60

\$139.51

\$82.83

\$86.07

\$184.04

\$90.68

\$105.10

\$123.77

\$160.03

\$113.08

Mutii-Stage DCF Notes: [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 Equals indicated value (average, minimum, maximum) of Columns [2], [3], [4] Source: Federal Reserve, Bureau of Economic Analysis, Blue Chip Financial Forecast [5] [6] [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 [11] Equals Toshin (a) Column [30]; or Proxy Group 30-day average PE ratio (source: S&P Global Market Intel§gence)
 [13] Equals Column [12] / (Column [6] x 100) [14] Source: Value Line [15] Equals Column [14] x (1 + Column [5]) [16] Equals Column [15] x (1 + Column [5]) [17] Equals Column [16] x (1 + Column [5]) [18] Equals Column [17] x (1 + Column [5]) [16] Equals Column [17] x (1 + Column [5])
 [19] Equals Column [18] x (1 + Column [5])
 [20] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2022 - 2021)))) x Column [19]
 [21] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2023 - 2021)))) x Column [20]
 [22] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2024 - 2021)))) x Column [21]
 [23] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2024 - 2021)))) x Column [22]
 [24] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2024 - 2021)))) x Column [22]
 [25] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2025 - 2021)))) x Column [22] [24] Equals (1 + (Column [5] + ((Column [6] - Column [5]) / (2027 - 2022 + 1)) x (2026 - 2021)))) x Column [23] [26] Equals Column [24] x (1 + Column [6]) [26] Equals Column [25] x (1 + Column [6]) [27] Equals Column [25] x (1 + Column [6])
 [28] Equals Column [27] x (1 + Column [6])
 [29] Equals Column [28] x (1 + Column [6]) [29] Equals Column [29] X (1 + Column [0])
[30] Equals Column [29] X (1 + Column [6])
[31] Equals Column [7]
[32] Equals Column [31] + ((Column [35] - Column [31]) / 4)
[33] Equals Column [33] + ((Column [35] - Column [31]) / 4)
[34] Equals Column [31] + ((Column [35] - Column [31]) / 4)
[35] Equals Column [8] [35] Equais Column [8] [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 [39] + ((Column [41] - Column [35]) / 6)
 [40] Equals Column [9] + ((Column [41] - Column [35]) / 6)
 [41] Equals Column [9] [42] Equais Column [9] [43] Equais Column [9] [44] Equais Column [9] [45] Equais Column [9] [46] Equais Column [9]
 [47]
 Equals Column [15] x Column [31]

 [48]
 Equals Column [16] x Column [32]

 [49]
 Equals Column [17] x Column [33]
 [50] Equals Column [18] x Column [34]
 [51] Equals Column [19] x Column [35]
 [52] Equals Column [20] x Column [36] [53] Equals Column [21] x Column [33]
 [54] Equals Column [22] x Column [38]
 [55] Equals Column [23] x Column [39] [56] Equals Column [24] x Column [40]
 [57] Equals Column [25] x Column [41]
 [58] Equals Column [26] x Column [42] [59] Equals Column [27] x Column [43] [60] Equals Column [28] x Column [44] [61] Equals Column [29] x Column [45] [62] Equals Column [30] x Column [46] [63] Equals (Column [62) x (1 + Column [6])) / (Column [11] - Column [6]); or Column [12] x 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] x (12/31/2017 - 11/17/2017) / 365 [67] Equals Column [47] x (1 + (0.5 x Column [5])) [68] Equals Column [49] [69] Equals Column [49] [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]

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Ex-Ante Market Risk Premium Market DCF Method Based - Bloomberg

N	[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%

· · · · · · · · · · · · · · · · · · ·			[4]	[5]	[6]	[7]	[8]	[9]
Company	Ticker		Market Capitalization	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	ş	24,696.31	0.10%	0.80%	-1.14%	-0.35%	-0.0004%
ADVANCE AUTO PARTS INC APPLE INC	AAP AAPL	\$ \$	7,366.90	0.03%	0.26%	13.05%	13.32%	0.0041%
ABBVIE INC	ABBV	ş	860,882.49 154,390.72	3.56% 0.64%	1.56% 2.68%	10.17% 11.70%	11.80% 14.53%	0.4208% 0.0929%
AVERISOURCEBERGEN CORP	ABC	š	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-CLA	ACN	\$	98,590.72	0.41%	1.74%	10.57%	12.40%	0.0506%
ADOBE SYSTEMS INC	ADBE	\$	86,383.33	0.35%	0.00%	16.77%	16.77%	0.0600%
ANALOG DEVICES INC	ADI	ş	32,819.64	0.14%	2.06%	9.75%	11.91%	0.0162%
ARCHER-DANIELS-MIDLAND CO AUTOMATIC DATA PROCESSING	ADM ADP	s s	22,414.75 51,972.56	0.09% 0 22%	3.15%	8.50%	11.79%	0.0109%
ALLIANCE DATA SYSTEMS CORP	ADS	ş	14,004,43	0.06%	2.02% 0.82%	10.85% 14.00%	12.98% 14.88%	0.0279% 0.0086%
AUTODESK INC	ADSK	š	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%
AVERICAN 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 AFLAC INC	AET AFL	ş	58,825.18 34,510.67	0.24%	1.06%	12.00%	13.12%	0.0320%
ALLERGAN PLC	AGN	ŝ	54,403.94	0.14% 0.23%	2.80%	2.85% 8.50%	5.69%	0.0081%
AVERICAN INTERNATIONAL GROUP	AIG	ş	53,560,00	0.22%	2.15%	11.00%	10.28% 13.27%	0.0232% 0.0294%
APARTMENT INVT & MGMT CO -A	AIV	š	6,863.49	0.03%	3.32%	6.80%	10.23%	0.0029%
ASSURANT INC	AZ	ŝ	5 426 37	N/A	2.13%	N/A	N/A	N/A
ARTHUR J GALLAGHER & CO	AJG	s	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%
ALSEMARLE CORP	ALB	s	14,131.29	0.06%	1.00%	12.40%	13.46%	0.0079%
ALIGN TECHNOLOGY INC ALASKA AIR GROUP INC	ALGN	ş	17,814.68	N/A	0.00%	N/A	N/A	N/A
ALASKA AIR GROOP INC	ALK ALL	\$ \$	9,045.03 37,695.60	0.04%	1.63%	-0.18%	1.45%	0.0005%
ALLEGION PLC	ALLE	ŝ	7,561.59	0.16% 0.03%	1.40% 0.75%	16.27% 12.99%	17.78%	0.0278%
ALEXION PHARMACEUTICALS INC	ALXN	ŝ	26,717.56	0.03%	0.00%	12.99% 19.69%	13.78% 19.89%	0.0043% 0.0220%
APPLIED MATERIALS INC	AMAT	ŝ	54,000.14	0.22%	0.79%	11.35%	12.18%	0.0272%
ADVANCED MICRO DEVICES	AND	\$	9,918.13	0.04%	0.00%	8.00%	8.00%	0.0033%
AMETEK INC	ANE	\$	16,749.06	0.07%	0.51%	11.75%	12.29%	0.0085%
AFFILIATED MANAGERS GROUP	AMG	\$	11,408.19	D.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 AMERICAN TOWER CORP	AMP	ş	25,069.70	0.10%	1.92%	8.60%	10.80%	0.0112%
MAZON.COMINC	amit Amzn	s s	61,184,94 563,535.05	0.25%	1.84%	19.71%	21.73%	0.0550%
ANDEAVOR	ANOV	ŝ	17,836,73	2.33% 0.07%	0.00% 2.00%	25.64% 18.60%	25.64% 20.99%	0.5983%
ANSYS INC	ANSS	š	12,524.56	0.05%	0.00%	10.38%	10.38%	0.0155% 0.0054%
ANTHEM INC	ANTI	ŝ	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%
NADARKO PETROLEUM CORP	APC	ş	29,349.53	0.12%	0.37%	-1.91%	-1.54%	-0.0019%
VR PRODUCTS & CHEMICALS INC IMPHENOL CORPICE A	APD APH	\$ \$	35,903.52	0.15%	2.33%	10.30%	12.75%	0.0190%
VPTIV PLC	APTV	ş	26,808.77 22,551.19	0.11% 0.09%	0.77%	12.22%	13.04%	0.0145%
LEXANDRIA REAL ESTATE EQUIT	ARE	ŝ	12,499.79	0.05%	1.35% 2.61%	10.43% 7.30%	11.84% 10.01%	0.0111% 0.0052%
ARCONIC INC	ARINC	ŝ	13,116.08	0.05%	1.17%	17.50%	18.78%	0.0102%
CTIVISION BUZZARD INC	ATVI	\$ \$	47,876.22	0.20%	0.47%	13.93%	14.43%	0.0286%
VALONBAY COMMUNITIES INC	AVB	\$	24,636 26	0.10%	3.18%	6.45%	9.73%	0.0099%
ROADCOMILTD	AVGO	\$	105,165.22	0.44%	2.72%	15.00%	17.93%	0.0781%
VERY DENNISON CORP	AVY	ş	10,111.86	0.04%	1.55%	7.80%	9.41%	0.0039%
MERICAN WATER WORKS CO INC MERICAN EXPRESS CO	AWK AXP	s s	16,319,57	0.07%	1.78%	8.53%	10.38%	0.0070%
CUITY BRANDS INC	AYI	ŝ	86,200.71 7,418.91	0.36% 0.03%	1.35%	10.17%	11.59%	0.0414%
UTOZONE INC	AZO	ş	19,458.11	0.03%	0.30% 0.00%	11.00% 12.90%	11.31% 12.90%	0.0035% 0.0104%
OEING CO/THE	BA	ŝ	175,642.06	0.73%	1.93%	16.27%	18.36%	0.1335%
ANK OF AMERICA CORP	BAC	\$	307,911.72	1.27%	1.34%	12.65%	14.07%	0.1794%
AXTER INTERNATIONAL INC	BAX	s	35,217.94	0.15%	0.97%	13.45%	14.48%	0.0211%
B&T CORP	BBT	\$	39,225.15	0.16%	2 53%	8.65%	11.29%	0.0183%
EST BUY CO INC	BBY	\$	20,015.60	0.08%	1.97%	12.65%	14,74%	0.0122%
R BARD INC ECTON DICKINSON AND CO	BCR BDX	\$ \$	24,144.87	0.10%	0.31%	8.73%	9.06%	0.0091%
RANKLIN RESOURCES INC	BEN	ŝ	57,028.85 24,000.83	0.24% 0.10%	1.43% 1.99%	12.80% 10.00%	14.32%	0.0338%
ROWN-FORMAN CORP-CLASS B	8F/8	ş	26,150.71	0.11%	1.12%	10.00%	12.09% 11.91%	0.0120% 0.0129%
RIGHTHOUSE FINANCIAL INC	BHF	ŝ	7,023.49	0.03%	0.00%	8.00%	8.00%	0.0023%
AKER HUGHES A GE CO	BHGE	ŝ	36,236.87	0.15%	1.77%	7.92%	9.76%	0.0146%
IOGEN INC	BliB	\$	67,370.21	0.28%	0.00%	5.21%	521%	0.0145%
ANK OF NEW YORK MELLON CORP	BK	\$	55,153.84	0.23%	1.60%	9.07%	10.74%	0.0245%
LACKROCK INC	BLK	S	83,179.41	0.34%	1.95%	14.03%	16.12%	0.0555%
ALL CORP RISTOL-MYERS SQUIBB CO	BLL	Ş	13,249.63	0.05%	0.85%	1.27%	2.13%	0.0012%
ERKSHIRE HATHAWAY INC-CL B	BMY BRK/B	\$ \$	100,296.96 489.248.72	0.42%	2.54%	8.07%	10.71%	0.0445%
OSTON SCIENTIFIC CORP	BSX	ŝ	469,245.72 34,041.52	2.03% 0.14%	0.00% 0.00%	6.60% 10.37%	6 60%	0.1337%
ORGWARNER INC	BWA	š	10,771.74	0.04%	1.13%	7.20%	10.37% 8.37%	0.0146% 0.0037%
OSTON PROPERTIES INC	BXP	ŝ	20,056.52	0.08%	2.32%	5.56%	7.94%	0.0066%
ITIGROUP INC	С	\$	196,740.19	0.81%	1.31%	12.40%	13.79%	0.1123%
A INC	CA	\$	13,929.12	0.06%	3.09%	2.97%	6.10%	0.0035%
ONAGRA BRANDS INC	CAG	\$	15,388.12	0.06%	2 23%	8.80%	11.13%	0.0071%
ARDINAL HEALTH INC	CAH	ş	19,275.77	0.08%	3.02%	12.30%	15.51%	0.0124%
ATERPILLAR INC	CAT	Ş	93,749.63	0.39%	2.01%	10.00%	12.11%	0.0470%
HUBB LTD SRE GROUP INC - A	CB	ş	67,836.76	0 28%	1.93%	8.73%	10.74%	0.0302%
SRE GROUP INC - A BOE GLOBAL MARKETS INC	CBG CBOE	\$ \$	14,701.98	0.06% 0.05%	0.00%	9.35%	9.35%	0.0057%
SOE GLOBAL MARKETS INC.	CBS	ŝ	14,135.71 23,639.87	0.06% 0.10%	0.83%	22.16%	23.09%	0.0135%
ROWN CASTLE INTL CORP	CCI	\$	45,100.60	0.19%	1.25% 3.52%	14.98% 21.03%	16.32% 24.92%	0.0160%
ARNIVAL CORP	CCL	ş	47,583.29	0.19%	3.52%	21.03%	24.92% 15.31%	0.0465% 0.0302%
	CONS	ŝ	11,808.30	0.05%	0.00%	12.49%	12.00%	0.0059%
ADENCE DESIGN SYS INC	00.00							
ELGENE CORP ERNER CORP	CELG	s s	82,164.39 22,401.44	0.34%	0.00%	18.95%	18.95%	0.0645%

CF INDUSTRIES HOLDINGS INC	CF	ş	9,922.88	0.04%	2.82%	6.00%	8.91% 16.80%	0.0037% 0.0144%
CITIZENS FRANCIAL GROUP	CFG CHD	\$ \$	20,653.80 12,538.75	0.09% 0.05%	1.54% 1.52%	15.14% 9.01%	10.60%	0.0055%
CHURCH & DWIGHT CO INC CHESAPEAKE ENERGY CORP	CHD	ŝ	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% 0.0251%
CIGNA CORP	CI CINF	s \$	50,071.78 12,300.46	0.21% N/A	0.02% 2.89%	12.10% N/A	12.12% N/A	0.025175 N/A
CINCINNATI FINANCIAL CORP COLGATE-PALMOLIVE CO	CL	ŝ	66,253.04	0.27%	2.11%	7.53%	9.72%	0.0267%
CLOROX COMPANY	cīx	\$	19,178 32	0.08%	2.25%	6.35%	8.67%	0.0069%
COMERICA INC	CL/A	\$	15,097.56	0.06%	1.26%	29.00%	30.44%	0.0190%
COMCAST CORP-CLASS A	CHICSA	ş	187,184.56 49,700.01	0.78% 0.21%	1.57% 4.01%	11.35% 12.29%	13.01% 16.55%	0.1008% 0.0341%
CME GROUP INC CHIPOTLE MEXICAN GRILL INC	CME CMG	\$ \$	8,160.18	0.03%	0.00%	46.98%	46.98%	0.0159%
CUMMINS INC	CM1	š	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	ş	17,408.51	0.07%	0.00%	13.27% 7.36%	13.27% 11.29%	0.0096% 0.0057%
CENTERPOINT ENERGY INC CAPITAL ONE FINANCIAL CORP	CNP COF	\$ \$	12,224,11 48,270,83	0.05% 0.20%	3.79% 1.61%	7.25%	8.92%	0.0178%
CABOT OIL & GAS CORP	cõg	š	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	CO0	\$	10,645.84	0.04%	0.04% 1.93%	9.75% 6.00%	9.79% 7.99%	0.0043% 0.0217%
CONOCOPHILLIPS	COP COST	\$ \$	65,621.86 81,726.38	0.27% 0.34%	1.12%	10.03%	11.20%	0.0379%
COSTCO WHOLESALE CORP COTY INC-CL A	COTY	ŝ	14,907.39	0.06%	2.49%	17.13%	19.83%	0.0122%
CAMPBELL SOUP CO	CPB	s	14,452.20	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% 8.07%	0.0865% 0.0633%
CISCO SYSTEMS INC	CSCO CSRA	\$ \$	189,340.73 4,900.30	0.78% 0.02%	3.19% 1.34%	4.80% 7.39%	8.69%	0.0018%
CSRA INC CSX CORP	CSX	š	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	ş	17,830.98	0.07%	12.95%	-14.57%	-2.56% 14.95%	-0.0019% 0.0259%
COGNIZANT TECH SOLUTIONS-A	CTSH CTXS	\$ \$	41,876.63 13,259.44	0.17% 0.05%	0.70% 0.00%	14.20% 4.85%	4.85%	0.0027%
CITRIX SYSTEMS INC CVS HEALTH CORP	CVS	ŝ	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	ş	22,337.12	N/A	0.00%	N/A	N/A	N/A
DOMINION ENERGY INC	D	\$ \$	52,164.52 39,926.50	0.22% 0.17%	3.75% 1.81%	5.98% 4.75%	9.84% 6.61%	0.0212% 0.0109%
DELTA AIR LINES INC DEERE & CO	DAL DE	ŝ	50,489,35	0.21%	1.58%	9.00%	10.65%	0.0223%
DISCOVER FINANCIAL SERVICES	DFS	S	27,951.24	0.12%	1.68%	6.40%	8.13%	0.0094%
DOLLAR GENERAL CORP	DG	ŝ	25,258.13	0.10%	1.11%	8.28%	9.43%	0.0099% 0.0054%
QUEST DIAGNOSTICS INC	DGX	s	13,424.13 19,202,47	0.06%	1.82% 0.94%	7.87% 17.20%	9.76% 18.22%	0.0145%
DR HORTON INC DANAHER CORP	DHI DHR	\$ \$	64,566.08	0.03% 0.27%	0.57%	7.98%	8.57%	0.0229%
WALT DISNEY CO/THE	DIS	š	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	ş	22,268.57	0.09%	0.00%	-5.75%	-5.75% 10.65%	-0.0053% 0.0104%
DIGITAL REALTY TRUST INC	ÐLR DLTR	\$ \$	23,673.65 25,442.83	0.10% 0.11%	3.27% 0.00%	7.26% 13.98%	13.98%	0.0147%
DOLLAR TREE INC DOVER CORP	DOV	š	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	ş	9,690.59	0.04%	5.95%	3.71% 9.50%	9.77% 12.25%	0.0039% 0.0060%
DARDEN RESTAURANTS INC DTE ENERGY COMPANY	DRJ DTE	\$ \$	11,875.11 19,636.06	0.05% 0.08%	2.63% 3.04%	5.78%	8.90%	0.0072%
DUKE ENERGY CORP	DUK	š	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	5	21,755.70	0.09%	0.58%	16.95%	17.58% 9.66%	0.0158% 0.0667%
DOWDUPONT INC	DWDP DXC	\$ \$	166,654.11 27,072.00	0.69% 0.11%	2.16% 0.74%	7.43% 15.00%	15.80%	0.0177%
DXC TECHNOLOGY CO ELECTRONIC ARTS INC	EA	š	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	ş	38,766.52	0.16%	1.13%	12.95%	14.15%	0.0227%
CONSOLIDATED EDISON INC	ED EFX	s \$	26,340,34 14,159,76	0.11% 0.06%	3.25% 1.32%	2.00% 10.00%	528% 11.39%	0.0058% 0.0067%
EQUIFAX INC EDISON INTERNATIONAL	EIX	ŝ	20,604.30	0.09%	3.51%	6.16%	9.78%	0.0083%
ESTEE LAUDER COMPANIES-CL A	EL	š	46,854.49	0.19%	1.18%	12.00%	13 25%	0.0257%
EASTMAN CHEMICAL CO	EWN	s	13,315.55	0.06%	2 20%	7.30%	9.58%	0.0053% 0.0213%
EMERSON ELECTRIC CO	EMR EOG	s s	44,728,42 62,395,64	0.19% 0.26%	2.80% 0.62%	8.59% -10.86%	11.50% -10.27%	-0.0265%
EOG RESOURCES INC EQUINIX INC	EQIX	š	35,457.08	0.15%	1.77%	25.52%	27.52%	0.0404%
EQUITY RESIDENTIAL	EOR	\$	23,434.50	0.10%	3.16%	5.30%	8.54%	0.0083%
EQT CORP	EQT	ş	14,669.16	0.06%	0.21%	17.50%	17.73% 9.20%	0.0108% 0.0076%
EVERSOURCE ENERGY	ES ESRX	s \$	20,020,85 42,274,08	0.08%	3.01% 0.00%	6.10% 11.33%	11.33%	0.0198%
EXPRESS SCRIPTS HOLDING CO ESSEX PROPERTY TRUST INC	ESS	ŝ	15,939.36	0.07%	2.90%	623%	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	έtn εtd	ş	34,811.81	0.14% 0.06%	3.03% 4.32%	9.82% 0.14%	13.00% 4.46%	0.0187% 0.0027%
ENTERGY CORP ENVISION HEALTHCARE CORP	ETR EVHC	\$ \$	14,670.66 4,181.27	0.02%	0.00%	2.74%	2.74%	0.0005%
EDWARDS LIFESCIENCES CORP	EW	ŝ	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	ş	11,495.60 18,235.22	0.05% 0.08%	1.30% 0.96%	8.50% 14.60%	9.85% 15.63%	0.0047% 0.0118%
EXPEDIA INC EXTRA SPACE STORAGE INC	EXPE EXR	\$ \$	11,019.38	0.05%	3.59%	6.82%	10.53%	0.0048%
FORD MOTOR CO	F	š	49,614.05	0.21%	4.97%	-7.57%	-2.79%	-0.0057%
FASTENAL CO	FAST	s	15,717,38	0.07%	2.35%	15.75%	18 28%	0.0119%
FACEBOOK INC-A	FB	s	514,985.30	2.13%	0.00% 1.05%	28.81% 11.61%	28.81% 12.72%	0.6143% 0.0055%
FORTUNE BRANDS HOME & SECURI FREEPORT-MCMORAN INC	F8HS FCX	\$ \$	10,389.24 27,446.32	0.04% 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	Ş	8,213,52	0.03%	0.00% 1.22%	8.93% 12.00%	8.93% 13 29%	0.0030% 0.0173%
FIDELITY NATIONAL INFO SERV FISERV INC	FIS FISV	s \$	31,413.69 27,327.41	0.13% 0.11%	0.00%	10.80%	10.80%	0.0122%
FISERVING 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%
FUR SYSTEMS INC	FLIR	ş	6,460.33	N/A	1.20%	₩A 8.46%	N/A 10.18%	N/A 0.0030%
FLUOR CORP FLOWSERVE CORP	FLR FLS	\$ \$	7,224.56 5,503.65	0.03% 0.02%	1.66% 1.81%	8 99%	10.87%	0.0025%
FMC CORP	FN/C	\$	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	Ş	9,634.95	0.04% 0.06%	2.99% 0.94%	6.17% 4.56%	9.25% 5.52%	0.0037% 0.0033%
TECHNIPFMC PLC FORTIVE CORP	FTV	\$ \$	14,603,89 25,145,89	0.10%	0.36%	4.56%	10.64%	0.0111%
GENERAL DYNAMICS CORP	GÐ	\$	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%

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							0.55%	0.00792
GGP INC GILEAD SCIENCES INC	GGP GILD	\$ \$	22,126.40 93,581.11	0.09% 0.39%	3.88% 2.89%	4.58% 3.00%	8.55% 5.93%	0.0078% 0.0230%
GENERAL MILLS INC	GIS	ŝ	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% 12.45%	0.5427% 0.0072%
GENUINE PARTS CO	GPC GPN	s s	13,929.75 15,952.44	0.06% 0.07%	2.84% 0.04%	9.47% 14.50%	14.55%	0.0096%
GLOBAL PAYMENTS INC GAP INC/THE	GPS	ŝ	13,244.47	0.05%	2.72%	6.83%	9.64%	0.0053%
GAR/NN LTD	GRMN	ŝ	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 11.60%	N/A 14.06%	N/A 0.0078%
WW GRAINGER INC	GWW HAL	\$ \$	13,462.28 42,641.07	0.06% 0.18%	2.14% 1.47%	74.00%	76.02%	0,1342%
HALLIBURTON CO HASBRO INC	HAS	ŝ	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	Hat	\$	7,623.46	0.03%	2 87%	8.56%	11.55%	0.0036%
HCA HEALTHCARE INC	HCA	ş	31,099.97	0.13%	0.00% 5.47%	11.08% 2.21%	11.08% 7.73%	0.0143% 0.0076%
WELLTOWER INC HCP INC	HCN HCP	\$ \$	23,617.66 12,234.35	0.10% 0.05%	5.68%	-3.91%	1.66%	0.0008%
HOME DEPOT INC	HO	š	221,323.40	0.92%	1.88%	14.01%	16.03%	0 1459%
HESS CORP	HES	\$	15,083.78	0.06%	2.17%	-14.90%	-12.89%	-0.0081%
HARTFORD FINANCIAL SVCS GRP	HIG	ş	20,076.13	0.08%	1.70%	9.50%	11.28%	0.0094% 0.0187%
HILTON WORLDWIDE HOLDINGS IN	HLT HOG	ş	25,551.32	0.11% 0.04%	0.75% 2.89%	16.88% 7.95%	17.69% 10.96%	0.0039%
HARLEY-DAVIDSON INC HOLOGIC INC	HOLX	\$ \$	8,562.86 11,785.47	0.05%	0.00%	8.82%	8.82%	0.0043%
HONEYWELL INTERNATIONAL INC	HON	š	116,833.14	0.48%	1.77%	8.82%	10.67%	0.0516%
HEUVERICH & PAYNE	HP	s	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% 0.0124%
HP INC	HPQ HRB	\$ \$	34,566.25 5,481,79	0.14% 0.02%	2.68% 3.66%	5.93% 11.00%	8.70% 14.86%	0.0034%
H&R BLOCK INC HORMEL FOODS CORP	HRL	ŝ	19.271.60	0.08%	2.05%	6.15%	8.27%	0.0066%
HARRIS CORP	HRS	ŝ	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	ş	14,690.75	0.06%	4.09%	3.80%	7.96% 12.10%	0.0048% 0.0120%
HERSHEY CO/THE	HSY HUM	\$ \$	23,916.03 35,439.30	0.10% 0.15%	2.25% 0.64%	9.73% 11.71%	12.40%	0.0182%
HUMANA INC INTL BUSINESS MACHINES CORP	IBM	ŝ	142,034.91	0.59%	3.85%	3.77%	7.69%	0.0452%
INTERCONTINENTAL EXCHANGE IN	ICE	š	41,279,45	0.17%	1.14%	11.49%	12.69%	0.0217%
DEXX LABORATORIES INC	DXX	s	13,639.26	0.06%	0.00%	11.16%	11.16%	0.0063%
INTL FLAVORS & FRAGRANCES	IFF	ş	12,052.70	0.05%	0.00%	5.10%	5.10%	0.0025%
ILLUMINA INC	IUAN WOM	ş	31,899.54	0.13%	0.00% 0.00%	14.70% 40.42%	14.70 % 40.42%	0.0194% 0.0335%
INCYTE CORP	INCY INFO	\$ \$	19,987.34 18,010.03	0.08% 0.07%	0.00%	13.06%	13.06%	0.0097%
IHS MARKIT LTD INTEL CORP	INTC	ş	216.028.80	0.89%	2.34%	8.56%	11.00%	0.0984%
INTUIT INC	INTU	ŝ	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	ş	7,834.35	0.03%	3.57% 0.00%	4.57% 14.64%	8.21% 14.64%	0.0027% 0.0123%
IQVIA HOLDINGS INC	KQV IR	s s	20,362.01 22,285.71	0.08% 0.09%	1.88%	9.90%	11.87%	0.0110%
INGERSOLL-RAND PLC IRON MOUNTAIN INC	IRM	š	10,618.55	N/A	5.63%	N/A	N/A	N/A
INTUITIVE SURGICAL INC	ISRG	Ś	40,890.74	0.17%	0.00%	11.83%	11.83%	0.0200%
GARTNER INC	IT	s	11,163,72	0.05%	0.00%	17.50%	17.50%	0.0081%
ILLINOIS TOOL WORKS	nw	\$ \$	57,162.64	0.24% 0.06%	1.66% 3.17%	9.79% 13.39%	11.54% 16.77%	0.0273% 0.0103%
INVESCO LTD HUNT (JB) TRANSPRT SVCS INC	ÍVZ JBHT	ŝ	14,874.65 12,619.27	0.05%	0.80%	13.40%	14.25%	0.0074%
JOHNSON CONTROLS INTERNATION	JCI	š	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%
VOSNHOL & KOSNHOL	1841	s	375,360.58	1.55%	2.38%	7.10%	9.56%	0.1486% 0.0031%
JUNIPER NETWORKS INC	JNPR	ş	10,685.46	0.04% 1.54%	1.42% 1.98%	5.60% 8.87%	7.06% 10.94%	0.1680%
JPHORGAN CHASE & CO NORDSTROM INC	JPM JWN	\$ \$	371,052.45 7,892.67	0.03%	3.18%	9.67%	13.00%	0.0042%
KELLOGG CO	ĸ	ŝ	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	ş	94,748.06	0.39%	3.16%	7.01%	10.28%	0.0403% 0.0076%
KIMCO REALTY CORP	KIM KLAC	\$ 5	7,725.61 16,465.30	0.03% 0.07%	6.07% 2.20%	17.15% 8.05%	23.73% 10.34%	0.0070%
KLA-TENCOR CORP KIMBERLY-CLARK CORP	KMB	\$	42,443.04	0.18%	3.19%	6.03%	9.31%	0.0164%
KINDER MORGAN INC	KM	\$	40,354.64	0.17%	2.77%	15.75%	18.73%	0.0313%
CARMAX INC	KMX	Ş	11,692.83	0.05%	0.00%	12 37%	12.37%	0.0060%
COCA-COLA CO/THE	KO	ş	195,479.42	0.81%	3.22% 0.00%	5.58% 14.39%	8.89% 14.39%	0.0719% 0.0057%
MICHAEL KORS HOLDINGS LTD	KORS KR	\$ \$	9,573.35 24,193.38	0.04% 0.10%	1.84%	3.09%	4.96%	0.0050%
KROGER CO KOHLS CORP	KSS	š	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	Ļ	Ş	16,841.66	N/A 0.078	0.50% 3,99%	N'A 9.20%	N/A 13.37%	איא 0.0094%
L BRANDS INC LEGGETT & PLATT INC	LB LEG	s s	16,993.01 6,291.64	0.07% 0.03%	2.95%	920%	20.61%	0.0054%
LENNAR CORP-A	LEN	ş	14,585.15	0.06%	0.25%	12.46%	12.73%	0.0077%
LABORATORY CRP OF AVER 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% 0.0054%
L3 TECHNOLOGIES INC	LLL	ş	15,460.42	0.06%	1.59% 2.49%	6.79% 10.85%	8.42% 13.47%	0.0519%
ELI LILLY & CO LOCKHEED MARTIN CORP	LLY LMT	\$ \$	92,993,46 92,056.01	0.39% 0.38%	2.30%	10.63%	13.05%	0.0497%
LINCOLN NATIONAL CORP	LNC	ş	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	s	77,117.95	0.32%	1.69%	15.52% 2.50%	17.34% 3.46%	0.0554% 0.0043%
LAM RESEARCH CORP	LRCX	\$ \$	29,809.45 9,437.67	0.12% 0.04%	0.97% 1.36%	18.00%	19,48%	0.0076%
LEUCADIA NATIONAL CORP SOUTHWEST AIRLINES CO	LUX	ş	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%
MACYSINC	м	\$	7,672.03	0.03%	6.15%	2.97%	9.21%	0.0029%
MASTERCARD INC - A	MA	ş	160,239.33	0.66%	0.58% 3.48%	17.85% N/A	18.48% N/A	0.1226% N/A
MID-AMERICA APARTMENT COMM MACERICH CO/THE	MAA MAC	s s	11,426.33 9,245.96	N/A 0.04%	4.66%	7.36%	12.18%	0.0047%
MACERICH COTHE MARRIOTT INTERNATIONAL -CLA	MAR	ŝ	49,484.62	0.20%	0.95%	14.16%	15.18%	0.0311%
MASCO CORP	MAS	5	13,822.00	0.05%	0.93%	15.44%	16.44%	0.0094%
MATTEL INC	MAT	\$	5,286.56	0.02%	5.33%	9.73%	15.32%	0.0034% 0.0693%
MCDONALD'S CORP	MCHP	\$ \$	137,211.58 20,555.61	0.57% 0.09%	2.22% 1.65%	9.86% 14.18%	12.19% 15.94%	0.0136%
MCROCHIP TECHNOLOGY INC MCKESSON CORP	MCK	ş	32,511.59	0.13%	0.83%	10.30%	11.18%	0.0150%
MOODY'S CORP	MCO	š	28,208.27	0.12%	1.03%	8.00%	9.07%	0.0106%
MONDELEZ INTERNATIONAL INC-A	MOLZ	\$	63 959 83	0.26%	1.86%	11.64%	13.61%	0.0361%
MEDTRONIC PLC	MOT	ş	109,294.96	0.45%	2.31%	5.96% 9.00%	8.33% 12.31%	0.0377% 0.0271%
VETLIFE INC	MET MGM	s s	53,204,25 18,903.36	0.22% 0.08%	3.16% 1.32%	9.00% 7.47%	8.83%	0.0069%
MGM RESORTS INTERNATIONAL MOHAWK INDUSTRIES INC	MGM	ŝ	20,509.90	0.08%	0.00%	7.95%	7.95%	0.0068%
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MCCORMICK & CO-NON VTG SHRS	MKC	\$	13,329.40	0.06%	1.84%	9.70%	11.63%	0.0064%
MARTIN MARIETTA MATERIALS	MLM	\$	13,894.48	0.06%	0.78% 1.76%	20.67% 12.39%	21.52% 14.26%	0.0124% 0.0245%
MARSH & MCLENNAN COS	MMC MAM	\$ \$	41,537.94 140,188.28	0.17% 0.58%	2.00%	8.67%	10.75%	0.0624%
3M CO MONSTER BEVERAGE CORP	MNST	ŝ	35,693.24	0.15%	0.00%	20.30%	20.30%	0.0300%
ALTRIA GROUP INC	MO	ŝ	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% 0.0210%
MARATHON PETROLEUM CORP	MPC	\$	32,225.43	0.13%	2 31% 3.13%	13.28% 5.19%	15.74% 8.40%	0.0533%
MERCK & CO. INC. MARATHON OIL CORP	MRK MRO	\$ \$	153,304.06 14,384.80	0.63% 0.06%	1.18%	5.00%	6.21%	0.0037%
MORGAN STANLEY	MS	ŝ	94,860.47	0.39%	1.73%	15.84%	17.71%	0.0695%
MCROSOFT CORP	MSFT	ŝ	659,906.05	2.73%	1.95%	10.32%	12.37%	0.3350%
MOTOROLA SOLUTIONS INC	MSF	\$	14,635.06	0.06%	2.16%	4.35%	6.56%	0.0040%
M & T BANK CORP	MTB	\$	25,736.62	0.11%	1.76% 0.00%	9.02% 12.16%	10.86% 12.16%	0.0116% 0.0030%
METTLER-TOLEDO INTERNATIONAL	MTD MU	s s	15,846.78 47,547.67	0.07% 0.20%	0.41%	1.60%	2.01%	0.0040%
MICRON TECHNOLOGY INC MYLAN NV	MYL	ŝ	22,696.62	0.09%	0.00%	2.95%	2.95%	0.0028%
NAVIENT CORP	NAVI	š	3,503.32	N/A	4.60%	N/A	N/A	N/A
NOSLE ENERGY INC	NBL	š	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% 0.0295%
NEXTERA ENERGY INC	NEE	s	73,471.40	0.30%	2.52% 0.71%	7.11% -11.20%	9.71% -10.53%	-0.0087%
NEWMONT MINING CORP	NEM NFLX	s s	20,010.78 83,067.07	0.08% 0.34%	0.00%	39.74%	39.74%	0.1367%
NETFLIX INC NEWFIELD EXPLORATION CO	NEX	ş	6,293.98	0.03%	0.00%	12.36%	12.36%	0.0032%
NISOURCEINC	NI	ŝ	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	S	53,426,44	0.22%	1.26%	7.81%	9,11%	0.0202% N/A
NATIONAL OILWELL VARCO INC	NOV	ş	13,688.76	N/A 0.04%	0.56% 0.51%	N/A 23.53%	№A 24.10%	0.0090%
NRG ENERGY INC	NRG NSC	ş ş	9,017.96 41,462 98	0.17%	1.69%	14.23%	16.05%	0.0276%
NORFOLK SOUTHERN CORP NETAPP INC	NTAP	š	14,758.92	0.06%	1.45%	12.15%	13.68%	0.0084%
NORTHERN TRUST CORP	NTRS	ŝ	22,717.10	0.09%	1.61%	11.68%	13.38%	0.0126%
NUCOR CORP	NUE	ŝ	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.	s	15,144.09	0.06%	2.85%	4.42%	7.33% 20.49%	0.0046% 0.0031%
NEWS CORP - CLASS A	NWSA	ş	9,522.16	0.04%	1.33%	19.03% 4.94%	9.50%	0.0063%
REALTY INCOME CORP	O OKE	\$	16,067.40 20,494.69	0.07% 0.08%	5.33%	12.75%	18.42%	0.0156%
ONEOK INC OMNICOM GROUP	OMC	\$ \$	16,789.69	0.07%	3.08%	4.80%	7.95%	D.0055%
ORACLE CORP	ORCL	Š	195,720.38	0.81%	1.52%	8.28%	9.86%	0.0799%
O'REALLY AUTOMOTIVE INC	ORLY	ŝ	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%
PAYCHEX INC	PAYX	\$	24,453.35	0.10%	2.92%	8.50%	11.54%	0.0117% 0.0015%
PEOPLE'S UNITED FINANCIAL	PBCT	ş	6,474.91	0.03%	3.68% 2.54%	2.00% 7.50%	5.72% 10.13%	0.0105%
PACCAR INC	PCAR PCG	\$ \$	24,992.45 23,061.57	0.10% 0.10%	4.46%	5.15%	9.73%	0.0093%
P G & E CORP PRICELINE GROUP INC/THE	PCLN	\$	84,748.79	0.35%	0.00%	16.96%	16.96%	0.0595%
PATTERSON COS INC	PDCO	ŝ	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	5	170,543.43	0.71%	2.63%	6.21%	8.93%	0.0630%
PFIZER INC	PFE	ş	215,696.82	0.89%	3.51%	7.02%	10.65%	0.0952% 0.0111%
PRINCIPAL FINANCIAL GROUP	PFG	ş	20,374.53	0.08% 0.97%	2.64% 3.07%	10.40% 7.31%	13.18% 10.50%	0,1013%
PROCTER & GAMBLE CO/THE	PG PGR	\$ \$	233,095.71 32,755.71	0.14%	1.48%	11.93%	13.50%	0.0183%
PROGRESSIVE CORP PARKER HANNIFIN CORP	РН	š	26,589.26	0.11%	1.33%	11.49%	12.90%	0.0142%
PULTEGROUPINC	PHM	ŝ	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	ş	8,059.67	0.03%	0.38%	54.39%	54.88%	0.0183%
PROLOGIS INC	PLD	s	34,161.90	0.14%	2.70%	7.49%	10.30% 13.57%	0.0146% 0.0922%
PHILIP MORRIS INTERNATIONAL	PM PNC	\$ \$	164,095.85 68,653.34	0.68% 0.28%	3.99% 1.82%	9.39% 10.09%	11.99%	0.0341%
PNC FINANCIAL SERVICES GROUP PENTAIR PLC	PNR	ş	12,824.41	0.05%	1.95%	8.18%	10.22%	0.0054%
PINNACLE WEST CAPITAL	PNW	ŝ	9,517,14	0.04%	3.14%	4.06%	7.27%	0.0029%
PPG INDUSTRIES INC	PPG	s	29,727.88	0.12%	1.47%	7.65%	9.17%	0.0113%
PPL CORP	PPL	s	21,297,72	0.09%	5.11%	-1.00%	4.08%	0.0036%
PERRIGO CO PLC	PRGO	ş	12,275.68	0.05%	0.73% 2.66%	6.43% 11.45%	7.19% 14.26%	0.0037% 0.0288%
PRUDENTIAL FINANCIAL INC	PRU PSA	5 5	48,751.52 36,374.61	0.20% 0.15%	3.85%	4.87%	8.81%	0.0133%
PUBLIC STORAGE PHILLIPS 66	PSX	ş	51,256.60	0.21%	2.70%	-18.87%	-16.42%	-0.0348%
PVH CORP	PVH	š	10,555.47	0.04%	0.12%	10.69%	10.82%	0.0047%
QUANTA SERVICES INC	PWR	s	6,070.14	N/A	0.00%	N/A	N/A	N/A
PRAXAIR INC	PX	ş	44,285.71	0.18%	2.04%	12.80%	14.97%	0.0274% 0.0244%
PIONEER NATURAL RESOURCES CO	PXD	\$	29,413.07	0.12%	0.05% 0.00%	20.00% 20.77%	20.05% 20.77%	0.0761%
PAYPAL HOLDINGS INC QUALCOMMINC	PYPL QCOM	\$ \$	88,484.64 94,376.02	0.37% 0.39%	3.67%	10.47%	14.32%	0.0560%
QUALCOMMING QORVO INC	QRVO	ŝ	8,468.06	0.04%	0.00%	14.02%	14.02%	0.0049%
ROYAL CARIBBEAN CRUISES LTD	RCL	š	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%	927%	12.47%	0.0061%
REGENERON PHARMACEUTICALS	REGN	\$	40,393.00	0.17%	0.00% 1.85%	16.95% 11.88%	16.95% 13.84%	0.0283% 0.0115%
REGIONS FINANCIAL CORP	RF RHI	\$ \$	20,044.31 6,961.93	0.08% 0.03%	1.72%	8.90%	10.70%	0.0031%
ROBERT HALF INTL INC RED HAT INC	RHT	ŝ	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	ş	12,017.84	0.05%	1.77%	13.40%	15.29%	0.0076%
ROCKWELL AUTOMATION INC	ROK	ş	25,209.78	0.10%	1.64% 0.54%	10.85% 12.83%	12.58% 13.40%	0.0131% 0.0147%
ROPER TECHNOLOGIES INC	ROP ROST	\$ \$	26,511,81 30,667,22	0.11% 0.13%	0.80%	13.00%	13.85%	0.0176%
ROSS STORES INC RANGE RESOURCES CORP	RRC	ş	4,233 26	0.13%	0.47%	29.16%	29.70%	0.0052%
REPUBLIC SERVICES INC	RSG	ŝ	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	s	19 201 77	0.08%	0.00%	22.70%	22.70%	0.0160%
STARBUCKS CORP	SBUX	ş	81,711.40	0.34%	2.13%	15.90%	18.20%	0.0615% 0.0011%
SCANA CORP	SCG	S	5,673.27	0.02%	6.16% 0.62%	-1.39% 18.82%	4.72% 19.50%	0.0556%
SCHWAB (CHARLES) CORP	SCHW SEE	5 \$	68,865,41 8,893.05	0.29% 0.04%	0.62%	6.12%	7.45%	0.0027%
SEALED AIR CORP SHERWIN-WILLIAMS CO/THE	SHW	ş	38,344.45	0.16%	0.83%	11.24%	12.12%	0.0192%
SIGNET JEWELERS LTD	SIG	ş	3,422.18	0.01%	2.16%	4.17%	6.37%	0.0009%
JM SHUCKER CO/THE	SJM	s s	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% 12.72%	0.0014% 0.0052%
SNAP-ON INC COBRESS METHODICS INTERIOL A	SNA SNI	\$ \$	9,936.35 11,092.20	0.04% 0.05%	1.87% 1.37%	10.75% 5.75%	7.16%	0.0033%
SCRIPPS NETWORKS INTER-CLA		*						

SYNOPSYS INC SOUTHERN COTHE SIMON PROPERTY GROUP INC SEENCYCLE INC SEEMPRA ENERGY SUNTRUST BANKS INC STATE STREET CORP	SNPS SO SPG SPGI SRCL	\$ \$ \$ \$ \$	12,676.35 48,064.71 53,387.16	0.05% 0.20% 0.22%	0.00% 4.80% 4.17%	10.00% 4.10%	10.00% 9.00%	0.0052% 0.0179%
SOUTHERN CO/THE SIMON PROPERTY GROUP INC S&P GLOBAL INC STERICYCLE INC SEMPRA ENERGY SUNTRUST BANKS INC	SO SPG SPGI	\$ \$	48,064.71 53,387.16	0.20%	4.80%	4.10%	9.00%	
SIMON PROPERTY GROUP INC S&P GLOBAL INC STERICYCLE INC SEMPRA ENERGY SUNTRUST BANKS INC	SPG SPGI	\$	53,387.16					0.0179%
S&P GLOBAL INC STERICYCLE INC SEMPRA ENERGY SUNTRUST BANKS INC	SPGI							
STERICYCLE INC SEMPRA ENERGY SUNTRUST BANKS INC						6.67%	10.98%	0.0243%
SEMPRA ENERGY SUNTRUST BANKS INC			43,197.00	0.18%	0.97%	10.00%	11.01%	0.0197%
SUNTRUST BANKS INC		\$	5,804.50	0.02%	0 22%	8.83%	9.06%	0.0022%
	SRE	\$	26,845,22	0.11%	3.07%	12.34%	15.60%	0.0173%
STATE STREET CORP	STI	\$	30,746.99	0.13%	2.05%	8.51%	10.65%	0.0136%
	SIT	\$	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	ŝ	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	š	17,393,85	0.07%				
SYNCHRONY FINANCIAL	SYF				1.34%	13.08%	14.51%	0.0104%
		Ş	30,215.86	0.13%	1.45%	5.60%	7.09%	0.0069%
STRYKER CORP	SYK	ş	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%
A7&T INC	Ϋ́	\$	238,684,32	0.99%	5.06%	5.10%	10.29%	0.1017%
MOLSON COORS BREWING CO -B	PAT	\$	17,699.87	0.07%	2.00%	6.96%	9.02%	0.0066%
TRANSD/GM 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	ŝ	35,468.12	0.15%				
TIFFANY & CO	TIF	š	12,918.64	0.05%	3.81%	-0.05%	3.75%	0.0055%
TJX COMPANIES INC	TJX				1.90%	10.48%	12.48%	0.0067%
		\$	48,345.85	0.20%	1.58%	12.67%	14.35%	0.0287%
TORCHMARK CORP	THE	\$	10,472.18	0.04%	0.65%	8.00%	8.68%	0.0038%
THERMO FISHER SCIENTIFIC INC	TNO	\$	76,141.00	0.32%	0.32%	12.50%	12.84%	0.0405%
TAPESTRY INC	TPR	\$	12,577.92	0.05%	3.11%	\$1.63%	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	Ś	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	š	32,368.73	0.13%	1.43%	9.60%	11.10%	
TOTAL SYSTEM SERVICES INC	TSS	š						0.0149%
TIME WARNER INC			14,540,40	0.06%	0.51%	12.75%	13.29%	0.0080%
	TWX	s	71,217.90	0.29%	1.80%	8.30%	10.18%	0.0300%
TEXAS INSTRUMENTS INC	TXN	ş	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	0.03%	0.00%	-0.39%	-0.39%	-0.0003%
UDRINC	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	ŝ	13,641.56	0.06%	0.00%	17.00%	17.00%	0.0096%
UNITEDHEALTH GROUP INC	UNH	ŝ	213,640.61	0.88%				0.1220%
UNUM GROUP	UNM	\$	12,316.72		1.31%	12.40%	13.79%	
UNION PACIFIC CORP	UNP			0.05%	1.56%	5.00%	6.60%	0.0034%
		\$	105,559.34	0.44%	1.82%	12.10%	14.03%	0.0613%
UNITED PARCEL SERVICE-CL B	UPS	ş	102,675.29	0.43%	2.78%	9.18%	12.09%	0.0514%
UNITED RENTALS INC	มณ	\$	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	5	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	ŝ	40,218.10	0.17%	3.05%	9.86%	13.06%	0.0217%
VULCAN MATERIALS CO	VMC	š	16,981.36	0.07%	0.78%	23.30%		
VORNADO REALTY TRUST	VNO	ŝ	14,844.65	0.06%			24.17%	0.0170%
VERISK ANALYTICS INC					3 26%	-0.72%	2.53%	0.0016%
	VRSK	5	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	Ş	37,900.02	0.16%	0.00%	70.84%	70.84%	0.1112%
VENTAS INC	VIR	\$	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	ŝ	20,963,68	0.09%	3.13%	5.68%	8.90%	0.0077%
WELLS FARGO & CO	WFC	ŝ	298,754.94	1.24%	2.54%	22.22%	25.04%	0.3097%
WHIRLPOOL CORP	WHR	š	12,118.94	0.05%	2.51%	7.23%	9.83%	0.0049%
WILLIS TOWERS WATSON PLC	WLTW	š	19,896.93	0.03%	1.40%	13,15%	14.64%	
WASTE MANAGEMENT INC	WM	ŝ						0.0121%
WILLIAMS COS INC	WM8		37,472.85	0.16%	1.97%	10.35%	12.43%	0.0193%
		5	25,207.50	0.10%	3.94%	2.30%	6.28%	0.0066%
WAL-MART STORES INC	WAIT	ş	292,535.17	1.21%	2.07%	5.45%	7.57%	0.0917%
WESTROCK CO	WRK	S	16,102.72	0.07%	2.73%	9.03%	11.89%	0.0079%
WESTERN UNION CO	WU	ş	8,731.15	0.04%	3.68%	8.00%	11.83%	0.0043%
WEYERHAEUSER CO	WY	\$	26,615.29	0.11%	3.63%	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	Ş	11,622.78	0.05%	0.26%	63.22%	63.57%	0.0306%
XCEL ENERGY INC	XEL	ŝ	24,428.47	0.10%	2.99%	5.97%	9.05%	0.0092%
XL GROUP LTD	XL	š	9,001.49	0.04%	2.15%	20.45%	22.82%	0.0085%
XILINX INC	XLNX	ŝ	16,919.24	0.07%		20.45% 8.30%		
EXXON MOBIL CORP					2.08%		10.47%	0.0073%
	XOM	ş	354,391.55	1.47%	3.66%	16.27%	20.23%	0.2968%
DENTSPLY SIRONA INC	XRAY	ş	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	Ş	12,248.72	0.05%	1.06%	15.35%	16.49%	0.0084%
YUM BRANDS INC	YUN	\$	27,502.05	0.11%	1.40%	12.98%	14,47%	0.0165%
ZIMMER BIOMET HOLDINGS INC	ZBH	\$	24,432.43	0.10%	0.60%	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	ŝ	35,104.25	0.15%	0.58%	15.14%	15.76%	0.0229%
			4,151,835.62				19.1974	13.78%
	tal Market Capitalization:	5 /						

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 Professional [8] Equals ([6] x (1 + (0.5 x (7]))) + [7] [9] Equals Col. [5] x Col. [8]

Ex-Ante Market Risk Premium Market DCF Method Based - Value Line

[1]	[2]	[3]
S&P 500	Current 30-Year	
Est. Required	Treasury (30-day	Imp§ed Market
Market Return	average)	Risk Premium
14.67%	2.77%	11.89%

			[4] Market	[5]	[6] Estimated	[7]	(8)	[9]
Company	Ticker		Capitalization	Weight in Index	Dividend Yield	Long-Term Growth Est.	DCF Result	Weighter DCF Res
AGILENT TECHNOLOGIES INC	A	Ş		0.10%	0.89%	7.00%	7.92%	0.0079%
AMERICAN AIRLINES GROUP INC	AAL	ŝ	25,339.20	0.12%	0.76%	1.00%	1.76%	0.0020%
ADVANCE AUTO PARTS INC	AAP	Ś	7,399.41	0.03%	0.24%	9.50%	9.75%	0.0033%
APPLE INC	AAPL	\$	897,136.50	4.11%	1.56%	14.50%	16.17%	0.6653%
ABBVIE INC	ABBV	Š	156,276.40	0.72%	2.90%	11.50%	14.57%	0.1044%
MERISOURCEBERGEN CORP	ABC	Š	20.368.16	0.09%	1.64%	9.50%	11.22%	0.0105%
ABBOTT LABORATORIES	ABT	ŝ	99,092.41	0.45%	1.97%	8,50%	10.55%	
CCENTURE PLC-CL A	ACN	š	97,966.20	0.45%				0.0480%
DOBE SYSTEMS INC	ADBE	š	86,036.09	0.39%	1.73%	9.00%	10.81%	0.0485%
INALOG DEVICES INC	ADI	š	32,593,77	0.15%	0.00%	33.00%	33.00%	0.13029
RCHER-DANIELS-MIDLAND CO	ADM	ŝ			2.03%	16.00%	18.19%	0.0272%
UTOMATIC DATA PROCESSING	ADA	ŝ	22,410.31	0.10%	3.19%	3.50%	6.75%	0.0069%
LLIANCE DATA SYSTEMS CORP			52,125.60	0.24%	2.15%	10.00%	12.26%	0.0293%
UTODESK INC	ADS	\$	13,812.83	0.06%	0.83%	11.50%	12.38%	0.0078%
	ADSK	ş	23,002.48	N/A	0.00%	N/A	N/A	N/A
MEREN CORPORATION	AEE	\$	14,160.56	0.06%	3.17%	6.00%	9.27%	0.0060%
MERICAN ELECTRIC POWER	AEP	\$	36,268.43	0.17%	3.40%	4.00%	7.47%	0.0124%
ESCORP	AES	Ş	7,013.31	N/A	4.90%	N/A	N/A	N/A
ETNA INC	AET	\$	58,936.06	0.27%	1.11%	9.00%	10.16%	0.0275%
FLAC INC	AFL	\$	34,310.45	0.16%	2.07%	4.00%	6.11%	0.0096%
LLERGAN PLC	AGN	\$	55,753.74	0.26%	1.67%	10.00%	11.75%	0.0300%
MERICAN INTERNATIONAL GROUP	AIG	\$	54,004.71	0.25%	2.13%	27.00%	29.42%	0.0728%
PARTMENT INVT & MGMT CO -A	٨IV	Ś		N/A	3.34%	N/A	N/A	N/A
SSURANT INC	AZ	ŝ	5,439.85	0.02%	2.22%	4.00%		
RTHUR J GALLAGHER & CO	AJG	š	11,386.79	0.05%	2.48%	15.50%	6.26%	0.0016%
KAMAI TECHNOLOGIES INC	AKAM	ŝ	11,174.83	0.05%	2.46%		18.17%	
LBEMARLE CORP	ALB	ş	14,215.18			11.00%	11.00%	0.0056%
LIGN TECHNOLOGY INC	ALGN	ş		0.07%	1.00%	9.50%	10.55%	0.0069%
		ş	17,539.30	0.08%	0.00%	23.50%	23.50%	0.0189%
LASKA AIR GROUP INC	ALK	ş	9,215.78	0.04%	1.61%	5.50%	7.15%	0.0030%
LLSTATE CORP	ALL	ş	37,515.60	0.17%	1.42%	7.50%	8.97%	0.0154%
LLEGION PLC	ALLE	\$ \$ \$	7,697.11	0.04%	0.79%	10.00%	10.83%	0.0038%
LEXION PHARMACEUTICALS INC	ALXN	\$	26,387.52	0.12%	0.00%	23.50%	23.50%	0.0284%
PPLIED MATERIALS INC	AMAT	\$	55,314.74	0.25%	0.93%	24.00%	25.04%	0.0635%
DVANCED MICRO DEVICES	AMD	\$ \$	10,508.85	N/A	0.00%	N/A	N/A	N/A
METEK INC	AME	Ś	16,783.71	0.68%	0.50%	5.50%	6.01%	0.0046%
FFILIATED MANAGERS GROUP	AMG	ŝ	11,224.53	0.05%	0.40%	7.00%	7.41%	0.0038%
WGEN INC	AMGN	ŝ	128,375.70	0.59%	2.99%	8.50%	11.62%	
MERIPRISE FINANCIAL INC	AMP	ş	25,469.64	0.12%	1.93%			0.0684%
MERICAN TOWER CORP	ANT	ŝ	59,926,75			12.00%	14.05%	0.0164%
MAZON.COM INC	AMZN	ŝ	566,234.30	0.27%	2.09%	10.50%	12.70%	0.0349%
NDEAVOR		~		2.60%	0.00%	58.50%	58.50%	1.5188%
	ANDV	ş	17,318.57	0.08%	2.13%	6.50%	8.70%	0.0069%
NSYS INC	ANSS	\$	12,490.11	0.06%	0.00%	9.50%	9.50%	0.0054%
NTHEMINC	ANTM	Ş	57,936.71	0.27%	1.24%	12.00%	13.31%	0.0354%
ON PLC	AON	\$	33,943.27	0.16%	1.06%	9.50%	10.61%	0.0165%
HITH (A.O.) CORP	AOS	\$	10,609.80	0.05%	0.91%	11.50%	12.46%	0.0061%
PACHE CORP	APA	\$	16,498.42	0.08%	2.31%	20.00%	22.54%	0.0171%
ADARKO PETROLEUM CORP	APC	\$	28,713.10	N/A	0.39%	N/A	N/A	N/A
R PRODUCTS & CHEMICALS INC	APD	\$	35,561.86	0.16%	2.33%	9.00%	11.43%	0.0186%
APHENOL CORP-CLA	APH	\$	27,007.23	0.12%	0.86%	9.50%	10.40%	0.0129%
PTIV PLC	APTV	\$	22,591.00	0.10%	1.46%	7.50%	9.01%	0.0093%
EXANDRIA REAL ESTATE EQUIT	ARE	•	N/A	N/A	0.00%	N/A	N/A	
ICONIC INC	ARNC	\$	12,899.48	N/A				N/A
CTIVISION BLIZZARD INC	ATVI	ş	49,204.19		0.90%	N/A	N/A	N/A
ALONBAY COMMUNITIES INC	AVB	Ş	49,204.19	0.23%	0.52%	9.00%	9.54%	0.0215%
ROADCOM LTD			106 607 40	N/A	3.42%	N/A	N/A	N/A
	AVGO	ş	106,587.40	0.49%	2.68%	44.00%	47.27%	0.2310%
ERY DENNISON CORP	AVY	ş	10,043.00	0.05%	1.68%	10.00%	11.76%	0.0054%
ERICAN WATER WORKS CO INC	AWK	ş	16,000.15	0.07%	1.93%	8.50%	10.51%	0.0077%
ERICAN EXPRESS CO	AXP	\$	85,793.50	0.39%	1.42%	6.00%	7.46%	0.0294%
UITY BRANDS INC	AYI	\$	7,255.01	0.03%	0.30%	14.50%	14.82%	0.0049%
ITOZONE INC	AZO	\$	19,244.52	0.09%	0.00%	11.50%	11.50%	0.0101%
EING CO/THE	BA	\$	176,236.50	0.81%	2.32%	11.00%	13,45%	0.1087%
NK OF AMERICA CORP	BAC	Ś	311,841.90	1.43%	1.74%	17.00%	18.89%	0.2701%
XTER INTERNATIONAL INC	BAX	Ś	35,144.65	0.16%	0.99%	4.00%	5.01%	0.0081%
&T CORP	BBT	š	39,753.73	0.18%	2.74%	5.50%	8.32%	
ST BUY CO INC	BBY	š	19,855.68	0.09%	2.21%	9.00%		0.0152%
BARDINC	BCR	ŝ	24,156.41	0.11%	0.32%		11.31%	0.0103%
CTON DICKINSON AND CO	BDX	ŝ	49,559.11	0.23%		10.00%	10.34%	0.0114%
ANKLIN RESOURCES INC					1.47%	9.00%	10.54%	0.0239%
	BEN	ş	24,460.96	0.11%	2.10%	5.00%	7.15%	0.0080%
OWN-FORMAN CORP-CLASS B	BF/B	\$	25,899.05	0.12%	1.17%	10.00%	11.23%	0.0133%
GHTHOUSE FINANCIAL INC	BHF	~	N/A	N/A	0.00%	N/A	N/A	N/A
KER HUGHES A GE CO	BHGE	ş	13,824.40	N/A	2.23%	N/A	N/A	N/A
GEN INC	BliB	\$	68,205.56	0.31%	0.00%	7.00%	7.00%	0.0219%
WK OF NEW YORK MELLON CORP	вк	\$	55,665.84	0.26%	1.77%	8.50%	10.35%	0.0264%
CKROCK INC	BLK	\$	82,445.57	0.38%	1.95%	10.50%	12.55%	0.0475%
L CORP	BLL	ŝ	13,164.89	0.06%	1.06%	15.00%	16.14%	0.0097%
ISTOL-MYERS SQUIBB CO	BIAY	š	100,657.00	0.46%	2.60%			
RKSHIRE HATHAWAY INC-CL 8	BRK/B	ŝ	100,007.00			14.50%	17.29%	0.0798%
STON SCIENTIFIC CORP			24 540 50	N/A	0.00%	N/A	N/A	N/A
	BSX	ş	34,510.58	0.16%	0.00%	18.50%	18.50%	0.0293%
RGWARNER INC	BWA	ş	10,963.58	0.05%	1.31%	8.50%	9.87%	0.0050%
STON PROPERTIES INC	BXP	\$	-	N/A	2.52%	N/A	N/A	N/A
IGROUP INC	С	Ş	200,468.30	0.92%	1.69%	11.00%	12.78%	0.1175%
INC	CA	s	13,863.66	0.06%	3.10%	6.00%	9.19%	0.0058%
NAGRA BRANDS INC	CAG	š	15,461.65	0.07%	2.25%	3.00%	5.28%	0.0037%
				0.01.10	A. A. U 10	0.0073	0.2076	0.0037%
RDINAL HEALTH INC	CAH	\$	19,744.20	0.09%	3.08%	12.00%	15.26%	0.0138%

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							10.045	0.004004
CHU88 LTD	CB	\$ \$	67,307.70 14,705.38	0.31% 0.07%	1.96% 0.00%	8.00% 8.50%	10.04% 8.50%	0.0310% 0.0057%
CBRE GROUP INC - A CBOE GLOBAL MARKETS INC	CBG CBOE	ş	14,140.27	0.06%	0.87%	13.00%	13.93%	0.0090%
CBS CORP-CLASS B NON VOTING	CBS	ŝ	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% 0.0055%
CADENCE DESIGN SYS INC	CONS	ş	11,994.65	0.05% 0.39%	0.00%	10.00% 25.00%	10.00% 25.00%	0.0973%
CELGENE CORP	CELG	\$ \$	84,912.35 22,560.73	0.10%	0.00%	9.50%	9.50%	0.0098%
CERNER CORP CF INDUSTRIES HOLDINGS INC	CF	š	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	ş	3,480.34	N/A	0.00%	N/A	N/A 8.17%	N/A 0.0046%
C.H. ROBINSON WORLDWIDE INC	CHRW CHTR	\$ \$	12,186.96 82,772.21	0.06% 0.38%	2.11% 0.00%	6.00% 26.00%	26.00%	0.0987%
CHARTER COMMUNICATIONS INC-A CIGNA CORP	CI	ŝ	50,424.20	0.23%	0.02%	12.00%	12.02%	0.0278%
CINCINNATI FINANCIAL CORP	CINF	š	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	Ş	15,281.77	0.07%	1.37%	13.50% 11.00%	14.96% 12.62%	0.0105% 0.1104%
COMCAST CORP-CLASS A	CMCSA CME	\$ \$	190,736.60 51,166.13	0.87% 0.23%	1.54% 1.75%	8.50%	10.32%	0.0242%
CME GROUP INC CHIPOTLE MEXICAN GRILL INC	CMG	ŝ	8,271.12	0.04%	0.00%	11.00%	11.00%	0.0042%
CUMMINS INC	CMI	Š	29,098.36	0.13%	2.47%	8.00%	10.57%	0.0141%
CMS ENERGY CORP	CMS	Ś	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% 5.64%	0.0056% 0.0125%
CAPITAL ONE FINANCIAL CORP	COF COG	\$ \$	48,209.48 12,820.70	0.22% N/A	1.61% 0.72%	4.00% N/A	0.047a N/A	N/A
CABOT OIL & GAS CORP ROCKWELL COLLINS INC	COL	ŝ	21,988.24	0.10%	0.98%	14.00%	15.05%	0.0152%
COOPER COS INC/THE	coo	ŝ	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	Ş	82,039.75	0.38%	1.07%	10.00%	11,12%	0.0418% 0.0076%
COTY INC-CL A	COTY	ş	14,800.65	0.07%	2.53% 2.88%	8.50% 4.00%	11.14% 6.94%	0.0050%
CAMPBELL SOUP CO	CPB CRM	\$ \$	15,720.41 74,844,72	0.07% N/A	0.00%	N/A	N/A	N/A
SALESFORCE.COM INC CISCO SYSTEMS INC	CSCO	š	190,762.00	0.87%	3.01%	7.50%	10.62%	0.0929%
CSRA INC	CSRA	Ş	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	ş	9,602.46	0.04%	12.36% 0.83%	-1.50% 12.50%	10.77% 13.38%	0.0047% 0.0262%
COGNIZANT TECH SOLUTIONS-A	CTSH CTXS	\$ \$	42,716.00 13,276.44	0.20% 0.06%	0.00%	5.50%	5.50%	0.0033%
CITRIX SYSTEMS INC CVS HEALTH CORP	CVS	š	75,610.32	0.35%	2.68%	9.00%	11.80%	0.0409%
CHEVRON CORP	cvx	š	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	Ş	39,947.88	0.18% 0.23%	2.18% 1.54%	10.50% 8.00%	12.79% 9.60%	0.0234% 0.0220%
DEERE & CO DISCOVER FINANCIAL SERVICES	DE DFS	\$ \$	50,077.35 27,833.91	0.13%	1.84%	5.00%	6.89%	0.0088%
DOLLAR GENERAL CORP	DG	š	24,886.13	0.11%	1.14%	9.50%	10,69%	0.0122%
QUEST DIAGNOSTICS INC	DGX	Ś	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	ş	65,251.82	0.30%	0.60%	9.00% 8.50%	9.63% 10.10%	0.0288% 0.0811%
WALT DISNEY CO/THE	DIS DISCA	\$ \$	175,312.00 8,854.73	0.80% 0.04%	1.53% 0.00%	13.50%	13.50%	0.0055%
DISCOVERY COMMUNICATIONS-A DISH NETWORK CORP-A	DISH	ŝ	22,907.26	0.11%	0.00%	2.50%	2.50%	0.0026%
DIGITAL REALTY TRUST INC	DLR	ŝ	-	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	ş	15,713.08	0.07%	1.86%	8.00%	9.93%	0.0072%
DR PEPPER SNAPPLE GROUP INC	DPS	ş	17,305.31	0.08%	2.48% 2.99%	7.50% 33.50%	10.07% 36.99%	0.0080% 0.0000%
DUKE REALTY CORP DARDEN RESTAURANTS INC	DRE DRI	\$ \$	11,756.36	0.00% 0.05%	2.65%	11.00%	13.80%	0.0074%
DTE ENERGY COMPANY	DTE	š	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	ş	21,483.00	0.10%	0.59%	14.50%	15.13% N/A	0.0149% N/A
DOWDUPONT INC	DWDP	\$ \$	167,594.30 27,421.25	N/A 0.13%	2.37% 0.75%	N/A 18.00%	18.82%	0.0237%
DXC TECHNOLOGY CO ELECTRONIC ARTS INC	DXC EA	ş	33,254.76	0.15%	0.00%	13.00%	13.00%	0.0198%
EBAY INC	EBAY	š	39,652.69	0.18%	0.00%	10.00%	10.00%	0.0182%
ECOLABINC	ECL	\$	38,572.91	0.18%	1.23%	8.50%	9.78%	0.0173%
CONSOLIDATED EDISON INC	EÐ	Ş	26,284.90	0.12%	3.35%	2.50%	5.89%	0.0071%
EQUIFAX INC	EFX	ş	14,348.40	0.07%	1.31%	8.00% 4.00%	9.36% 7.90%	0.0062% 0.0075%
EDISON INTERNATIONAL ESTEE LAUDER COMPANIES-CL A	EIX EL	\$ \$	20,627.09 47,016.16	0.09% 0.22%	3.82% 1.19%	13.50%	14.77%	0.0318%
EASTMAN CHEMICAL CO	EMN	ŝ	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	ş	34,883.76	0.16%	1.79%	23.00%	25.00% N/A	0.0400% N/A
EQUITY RESIDENTIAL	EQR	ş	0 609 97	N/A	3.25% 0.22%	N/A 22.00%	22.24%	0.0098%
EQT CORP EVERSOURCE ENERGY	EQT ES	\$ \$	9,606.67 19,640.60	0.04% 0.09%	3.26%	6.50%	9.87%	0.0089%
EXPRESS SCRIPTS HOLDING CO	ESRX	ş	42,174.15	0.19%	0.00%	14.50%	14.50%	0.0280%
ESSEX PROPERTY TRUST INC	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	ş	34,410.86	0.16%	3.07%	7.00%	10.18%	0.0161% 0.0013%
ENTERGY CORP	ETR	ş	14,391.63	0.07% N/A	4.47% 0.00%	-2.50% N/A	1.91% N/A	N/A
ENVISION HEALTHCARE CORP EDWARDS LIFESCIENCES CORP	EVHC EW	\$ \$	4,173.09 23,973.15	0.11%	0.00%	17.00%	17.00%	0.0187%
EXELON CORP	EXC	ŝ	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	ş	- 60 570 47	N/A 0.235/	3.95%	N/A 2.50%	N/A 7.31%	N/A 0.0168%
FORD MOTOR CO	F FAST	\$ \$	50,170.17 15,550.29	0.23% 0.07%	4.75% 2.37%	2.50%	7.94%	0.0057%
FASTENAL CO FACEBOOK INC-A	FB	ş	515,669.80	2.36%	0.00%	31.50%	31.50%	0.7448%
FORTUNE BRANDS HOME & SECURI	FBHS	ş	10,522.85	0.05%	1.15%	12.00%	13.22%	0.0064%

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FREEPORT-MCMORAN INC	FCX	\$	26,324.64	N/A	0.00%	N/A	N/A	N/A
FEDEX CORP	FDX	ş	67,018.05	0.31%	0.80%	11.00%	11.84%	0.0364% 0.0107%
FIRSTENERGY CORP	FE	ş	13,730.57 8,284,94	0.06%	4.71% 0.00%	12.00% 11.00%	16.99% 11.00%	0.0042%
F5 NETWORKS INC	FFIV FIS	Ş	31,588.38	0.04% 0.14%	1.22%	7.50%	8.77%	0.0127%
FIDELITY NATIONAL INFO SERV	FISV	\$ \$	27,275.54	0.13%	0.00%	9.00%	9.00%	0.0113%
FISERV INC FIFTH THIRD BANCORP	FITB	Ş	21,820.31	0.10%	2.10%	4.50%	6.65%	0.0067%
FOOT LOCKER INC	FL	š	6,397.46	0.03%	2.58%	6.50%	9.16%	0.0027%
FLIR SYSTEMS INC	FLIR	ŝ	6,556,67	0.03%	1.52%	7.50%	9.08%	0.0027%
FLUOR CORP	FLR	ŝ	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	Ş	-	N/A	3.09%	N/A	N/A	N/A N/A
TECHNIPFMC PLC	FT	•	N/A	N/A	0.00%	N/A	N/A N/A	N/A
FORTIVE CORP	FTV	Ş	25,298.00	N/A	0.39%	N/A 5.50%	7.21%	0.0200%
GENERAL DYNAMICS CORP	GD	ş	60,457.09	0.28% 0.69%	1.66% 2.75%	13.50%	16.44%	0.1142%
GENERAL ELECTRIC CO	GE	\$ \$	151,501.30	N/A	4.16%	N/A	N/A	N/A
GGP INC	GGP GILD	ŝ	95,437,15	0.44%	2.85%	-1.00%	1.84%	0.0080%
GILEAD SCIENCES INC GENERAL MILLS INC	GIS	š	44,921,34	0.21%	3.33%	3.50%	6.89%	0.0142%
CORNING INC	GLW	š	28,068,70	0.13%	1.92%	11.50%	13.53%	0.0174%
GENERAL MOTORS CO	GM	Š	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%
GARAGN LTD	GRAIN	\$	11,094.38	0.05%	3.52%	5.50%	9.12%	0.0046%
GOLDMAN SACHS GROUP INC	GS	S	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% 0.0041%
WW GRAINGER INC	GWW	\$	13,392.14	0.06%	2.18%	4.50%	6.73% 23.16%	0.0446%
HALLIBURTON CO	HAL	ş	42,004.24	0.19%	1.50%	21.50%	13.09%	0.0069%
HASBRO INC	HAS	s	11,563.69	0.05% 0.07%	2.46% 3.03%	10.50% 10.00%	13.18%	0.0097%
HUNTINGTON BANCSHARES INC	HBAN	ş	16,041.24	0.07%	3.03%	9.00%	12.31%	0.0042%
HANESBRANDS INC	HBI	Ş	7,360.71 31,357.12	0.03%	3.17%	10.00%	10.00%	0.0042%
HCA HEALTHCARE INC WELLTOWER INC	HCA HCN	ş Ş	31,337,12	0.14% N/A	5.62%	N/A	N/A	N/A
HCP INC	HCP	ş	-	N/A	5.90%	N/A	N/A	N/A
HOME DEPOT INC	HD	š	219,677.40	1.01%	2.21%	11.00%	13.33%	0.1343%
HESS CORP	HES	š	14,724,72	N/A	2.16%	N/A	N/A	N/A
HARTFORD FINANCIAL SVCS GRP	HIG	Ş	19,997,21	0.09%	1.79%	12.50%	14.40%	0.0132%
HILTON WORLDWIDE HOLDINGS IN	HLT	ŝ	25.471.42	0.12%	0.76%	7.00%	7.79%	0.0091%
HARLEY-DAVIDSON INC	HOG	ŝ	8,719.36	0.04%	2.82%	8.00%	10.93%	0.0044%
HOLOGIC INC	HOLX	ŝ	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	Ş	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	Ş	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	ş	16,998.58	0.08%	1.60%	10.50%	12.18%	0.0095% 0.0054%
HENRY SCHEIN INC	HSIC	ş	11,168,78	0.05%	0.00%	10.50%	10.50% N/A	N/A
HOST HOTELS & RESORTS INC	HST	s	04 455 91	N/A	4.09%	N/A 6.50%	8.86%	0.0098%
HERSHEY CO/THE	HSY	Ş	24,155.31	0.11%	2.29% 0.66%	10.50%	11.19%	0.0179%
HUMANA INC	HUM	\$ \$	34,797.84 140,257,30	0.16% N/A	4.16%	N/A	N/A	N/A
INTL BUSINESS MACHINES CORP	IBM ICE	ŝ	41,084,46	0.19%	1.14%	12.00%	13.21%	0.0249%
INTERCONTINENTAL EXCHANGE IN IDEXX LABORATORIES INC	IDXX	ş	13,730.70	0.06%	0.00%	15.00%	15.00%	0.0094%
INTL FLAVORS & FRAGRANCES	IFF	š	11.993.45	0.05%	1.86%	7.50%	9.43%	0.0052%
RLUMINA INC	R.M.N	š	31,327.22	0.14%	0.00%	17.00%	17.00%	0.0244%
INCYTE CORP	INCY	ŝ	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	P	\$	23,733.49	0.11%	3.31%	18.50%	22.12%	0.0241%
INTERPUBLIC GROUP OF COS INC	IPG	ş	8,079.86	0.04%	3.56%	10.00%	13.74%	0.0051% 0.0121%
IQVIA HOLDINGS INC	KQV	Ş	21,160.88	0.10%	0.00%	12.50%	12.50% 13.10%	0.0136%
INGERSOLL-RAND PLC	IR IR	Ş	22,640.19 9,914.67	0.10% 0.05%	1.99% 6.33%	11.00% 11.00%	17.68%	0.0080%
IRON MOUNTAIN INC	IRM ISRG	s s	9,914.67 40,468.96	0.05%	0.00%	15.50%	15.50%	0.0288%
INTUITIVE SURGICAL INC GARTNER INC	IT	ŝ	40,468.95	0.05%	0.00%	16.00%	16.00%	0.0082%
ILLINOIS TOOL WORKS	пw	ş	57,645,88	0.26%	1.85%	10.50%	12.45%	0.0329%
INVESCO LTD	īvz.	ŝ	14,903,93	0.07%	3.17%	5.50%	8.76%	0.0060%
HUNT (JB) TRANSPRT SVCS INC	JBHT	š	12,371.25	0.06%	0.84%	9.00%	9.88%	0.0056%
JOHNSON CONTROLS INTERNATION	JC1	\$	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	Ş	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% 0.0019%
NORDSTROMINC	JWN	s	7,913.50	0.04%	3.12%	2.00%	5.15%	
KELLOGG CO	K	ş	23,339.25	0.11%	3.22%	7.00%	10.33%	0.0111% 0.0135%
KEYCORP	KEY	ş	22,044.77	0.10%	2.20%	11.00% N/A	13.32% N/A	N/A
KRAFT HEINZ CO/THE	KHC	Ş	94,857.84	N/A	3.25%	N/A N/A	N/A N/A	N/A
KINCO REALTY CORP	KIM	ş	17,021.62	N/A 0.08%	6.35% 2.17%	16.00%	18.34%	0.0143%
KLA-TENCOR CORP	KLAC KMB	\$ \$	42,309,33	0.19%	3.23%	10.50%	13.90%	0.0270%
KIMBERLY-CLARK CORP	KMB	ş	42,309.33	0.19%	2.77%	24.00%	27.10%	0.0501%
KINDER MORGAN INC	KMX	ş	12,005,66	0.06%	0.00%	10.00%	10.00%	0.0055%
CARMAX INC COCA-COLA CO/THE	KO	ş	194,347,20	0.89%	3.38%	4.50%	7.96%	0.0709%
MICHAEL KORS HOLDINGS LTD	KORS	ş	9,736.85	0.04%	0.00%	3.00%	3.00%	0.0013%
KROGER CO	KR	š	24,271.55	0.11%	1.89%	3.50%	5.42%	0.0060%
KOHLS CORP	KSS	š	8,982,96	0.04%	4.40%	7.00%	11.55%	0.0048%
KANSAS CITY SOUTHERN	KSU	ŝ	11,263.35	0.05%	1.33%	9.50%	10.89%	0.0056%
LOEWS CORP	L	š	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%
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LKQ CORP	(KQ	ş	12,638.84	0.06%	0.00%	11.50%	11.50%	0.0067%
L3 TECHNOLOGIES INC ELI LILLY & CO		\$ \$	15,246.68	0.07%	1.54%	10.00%	11.62%	0.0081%
LOCKHEED MARTIN CORP	LLT	ş	94,264.74 90,949.16	0.43% 0.42%	2.63% 2.59%	11.00% 10.00%	13.77% 12.72%	0.0595%
LINCOLN NATIONAL CORP	LNC	ŝ	17,111.34	0.08%	1.69%	7.00%	8.75%	0.0530% 0.0069%
ALLIANT ENERGY CORP	LNT	Š	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 ARLINES CO	LUV	ş	39,181.41	0.18%	0.76%	10.50%	11.30%	0.0203%
LYONDELLBASELL INDU-CL A MACY'S INC	LYB	\$ \$	43,500.83	0.20%	3.26%	4.06%	7.33%	0.0146%
MASTERCARD INC - A		ş	7,787.75 159,561.80	0.04% 0.73%	5.91% 0.66%	2.00% 13.00%	7.97% 13.70%	0.0028% 0.1003%
MID-AMERICA APARTMENT COMM	MAA	Ŷ	N/A	N/A	0.00%	N/A	N/A	N/A
MACERICH CO/THE	MAC	s	-	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	ş	136,998.80	0.63%	2.35%	9.50%	11.96%	0.0751%
MICROCHIP TECHNOLOGY INC MCKESSON CORP	MCHP MCK	\$ \$	20,919.95	0.10%	1.63%	14.50%	16.25%	0.0156%
MOODYSCORP	MCO	ŝ	33,228.68 28,180.63	0.15% 0.13%	0.85% 1.03%	11.00% 9.50%	11.90% 10.58%	0.0181% 0.0137%
MONDELEZ INTERNATIONAL INC-A	MOLZ	š	64,450.83	0.30%	2.09%	10.00%	12.19%	0.0360%
MEDTRONIC PLC	MOT	ŝ	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	Ş	20,655.56	0.09%	0.00%	8.50%	8.50%	0.0081%
MCCORMICK & CO-NON VTG SHRS	MKC	Ş	13,250.45	0.06%	2.06%	9.00%	11.15%	0.0068%
MARTIN MARIETTA MATERIALS MARSH & MCLENNAN COS	MLM MMC	\$	13,231.19	0.06%	0.84%	17.50%	18.41%	0.0112%
3M CO	MAN	\$ \$	41,255.48 139.836.80	0.19% 0.64%	1.86% 2.00%	10.00% 8.00%	11.95% 10.08%	0.0226%
MONSTER BEVERAGE CORP	MNST	Ş	35,986.22	0.16%	0.00%	12.00%	12.00%	0.0646% 0.0198%
ALTRIA GROUP INC	MO	ŝ	137,378.10	0.63%	3.67%	10.00%	13.85%	0.0873%
MONSANTO CO	MON	Ś	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	ş	33,032.34	0.15%	2.53%	6.50%	9.11%	0.0138%
MERCK & CO, INC.	MRK	ş	154,314.50	0.71%	3.39%	5.50%	8.98%	0.0636%
MARATHON OIL CORP MORGAN STANLEY	MRO MS	\$ \$	14,492.50 95,843.52	N/A 0.44%	1.17%	N/A	N/A	N/A
MICROSOFT CORP	MSFT	ŝ	660,060.00	3.03%	1.89% 1.97%	10.50% 8.50%	12.49% 10.55%	0.0549% 0.3194%
MOTOROLA SOLUTIONS INC	MSI	š	14,842.44	0.07%	2.27%	10.50%	12.89%	0.0088%
M & T BANK CORP	MTB	ŝ	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	NU	\$	51,438.36	0.24%	0.00%	31.00%	31.00%	0.0731%
MYLAN NV	MYL	ş	22,505.25	0.10%	0.00%	10.00%	10.00%	0.0103%
NAVIENT CORP NOBLE ENERGY INC	NAVI	\$ \$	3,450.72	0.02%	4.88%	6.00%	11.03%	0.0017%
NORWEGIAN CRUISE LINE HOLDIN	NBL NCLH	ş	14,063.00 12,368.77	N/A 0.06%	1.39% 0.00%	N/A 21.50%	N/A	N/A
NASDAQ INC	NDAQ	š	12,561.26	0.06%	2.02%	21.50%	21.50% 11.62%	0.0122% 0.0067%
NEXTERA ENERGY INC	NEE	ŝ	72,667.09	0.33%	2.79%	7.00%	9.89%	0.0329%
NEWMONT MINING CORP	NEM	ŝ	19,589.43	0.09%	0.82%	9.00%	9.86%	0.0089%
NETFLIX INC	NFLX	s	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 NIKE INC -CL B	NI	ş	8,302.80	0.04%	2.84%	5.50%	8.42%	0.0032%
NIELSEN HOLDINGS PLC	NKE NLSN	ş ş	105,673.40 12,982.32	0.48% 0.06%	1.24% 3.73%	14.00% 2.50%	15.33% 6.28%	0.0743%
NORTHROP GRUMMAN CORP	NOC	š	53,005.01	0.24%	1.31%	8.00%	9.36%	0.0037% 0.0228%
NATIONAL OILWELL VARCO INC	NOV	š	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 NUCOR CORP	NTRS	ş	22,753.47	0.10%	1.68%	9.50%	11.26%	0.0117%
NVIDIA CORP	NUE NVDA	\$ \$	20,515.18 118,709.40	0.09% 0.54%	2.36% 0.31%	20.50% 23.50%	23.10%	0.0217%
NEWELL BRANDS INC	NWL	š	15,070.58	0.07%	2.99%	24.50%	23.85% 27.86%	0.1298% 0.0192%
NEWS CORP - CLASS A	NWSA	š	9,519.80	N/A	1.22%	N/A	N/A	N/A
REALTY INCOME CORP	0	Ś	-	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	OWC	ş	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 OCCIDENTAL PETROLEUM CORP	ORLY OXY	\$ \$	20,609.13 55,541.48	0.09% 0.25%	0.00% 4.27%	11.00% 25.00%	11.00% 29.80%	0.0104% 0.0759%
PAYCHEXING	PAYX	š	24,634.90	0.11%	3.00%	8.50%	11.63%	0.0131%
PEOPLE'S UNITED FINANCIAL	PBCT	ş	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	\$	22,882.90	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	ş	3,443.06	0.02%	3.03%	13.00%	16.23%	0.0026%
PUBLIC SERVICE ENTERPRISE GP PEPSICO INC	PEG PEP	s s	25,760.05 168,284.00	0.12% 0.77%	3.49%	1.00%	4.51%	0.0053%
PFIZER INC	PFE	š	216,016.00	0.99%	2.77% 3.75%	7.50% 11.00%	10.37% 14. 96 %	0.0800% 0.1481%
PRINCIPAL FINANCIAL GROUP	PFG	š	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	ş	32,453.28	0.15%	1.72%	8.00%	9.79%	0.0146%
PARKER HANNIFIN CORP	PH	ş	26,603.90	0.12%	1.32%	7.50%	8.87%	0.0108%
PULTEGROUP INC	PHM	ş	9,926.22	0.05%	1.18%	17.00%	18.28%	0.0083%
PACKAGING CORP OF AMERICA PERKINELMER INC	PKG PKI	\$ \$	11,356.32 8,075.97	0.05% 0.04%	2.10%	8.50%	10.69%	0.0056%
PROLOGIS INC	PLD	ş	0,010.97	0.04% N/A	0.38% 2.79%	8.00% N/A	8.40% N/A	0.0031% N/A
PHILIP MORRIS INTERNATIONAL	PM	ŝ	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	Ş	12,742.66	0.06%	2.00%	11.50%	13.62%	0.0080%
PINNACLE WEST CAPITAL	PNW	s	9,514.29	0.04%	3.26%	5.50%	8.85%	0.0039%
PPG INDUSTRIES INC	PPG	ş	29,565.02	0.14%	1.55%	10.50%	12.13%	0.0164%
PPL CORP PERRIGO CO PLC	PPL PRGO	\$ \$	21,462.87 12,274.94	0.10% 0.06%	5.26% 0.79%	1.50% -0.50%	6.80%	0.0067%
PRUDENTIAL FINANCIAL INC	PRU	ş	49,583.33	0.23%	2.57%	-0.50%	0.29% 8.14%	0.0002% 0.0185%
PUBLIC STORAGE	PSA	š	-	N/A	4.15%	N/A	N/A	N/A

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PHILLIPS 66	PSX	Ş	50,714.54	0.23%	3.01%	5.00%	8.09%	0.0188%
PVH CORP	PVH	ş	10,452.82	0.05%	0.11%	7.50%	7.61% 17.00%	0.0036% 0.0046%
QUANTA SERVICES INC	PWR	Ş	5,957.56	0.03%	0.00% 2.18%	17.00% 8.00%	10.27%	0.0208%
PRAXAIR INC	PX PXD	ş	44,119.60 28,727.26	0.20% 0.13%	0.05%	37.60%	37.56%	0.0495%
PIONEER NATURAL RESOURCES CO	PYPL	\$ \$	88,972.05	N/A	0.00%	N/A	N/A	N/A
PAYPAL HOLDINGS INC QUALCOMMINC	QCOM	ŝ	94,910.86	0.44%	3.73%	5.00%	8.82%	0.0384%
QORVO INC	QRVO	š	8,579.20	0.04%	0.00%	26.50%	26.50%	0.0104%
ROYAL CARIBBEAN CRUISES LTD	RCL	š	26.063.63	0.12%	1.97%	12.50%	14.59%	0.0174%
EVEREST RE GROUP LTD	RE	ŝ	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%	0.0689%
ROPER TECHNOLOGIES INC	ROP	\$	26,448.29	0.12%	0.64%	7.50%	8.16%	0.0099%
ROSS STORES INC	ROST	S	30,625.18	0.14%	0.86%	9.00%	9.90%	0.0139%
RANGE RESOURCES CORP	RRC	ş	4,094.03	0.02%	0.49%	23.50%	24.05%	0.0045%
REPUBLIC SERVICES INC	RSG	Ş	22,391.30	0.10%	2.11%	8.50%	10.70%	0.0110%
RAYTHEON COMPANY	RTN	ş	53,996.76	0.25%	1.71%	8.00%	9.78%	0.0242% 0.0750%
SBA COMMUNICATIONS CORP	SBAC	ş	18,692.68	0.09%	0.00%	87,50%	87.50% 17.33%	0.0662%
STARBUCKS CORP	SBUX	ş	83,243.41	0.38%	2.17%	15.00% 3.50%	10.16%	0.0025%
SCANA CORP	SCG	ş	5,346.77	0.02%	6.55% 0.67%	14.00%	14.72%	0.0473%
SCHWAB (CHARLES) CORP	SCHW	ş	70,056.77	0.32% 0.04%	1.31%	12.00%	13.39%	0.0054%
SEALED AIR CORP	SEE SHW	\$ \$	8,785.19 38.483.82	0.18%	0.85%	14.50%	15.41%	0.0272%
SHERWIN-WILLIAMS CO/THE	SIG	ş	3,367.30	0.02%	2.37%	2.00%	4.39%	0.0007%
SIGNET JEWELERS LTD	SJM	ŝ	14.076.18	0.06%	2.53%	6.00%	8.61%	0.0056%
JM SMUCKER CO/THE SCHLUMBERGER LTD	SLB	\$	94.003.88	0.43%	2.95%	17.50%	20.71%	0.0893%
SL GREEN REALTY CORP	SLG	ŝ	-	N/A	3.28%	N/A	N/A	N/A
SNAP-ON INC	SNA	š	10,007.58	0.05%	1.87%	9.00%	10.95%	0.0050%
SCRIPPS NETWORKS INTER-CL A	SNI	š	11,134.67	0.05%	1.40%	6.50%	7.95%	0.0041%
SYNOPSYS INC	SNPS	ŝ	12,992.58	0.06%	0.00%	9.50%	9.50%	0.0057%
SOUTHERN CO/THE	SO	Ş	49,669.55	0.23%	4.81%	3.50%	8.39%	0.0191%
SIMON PROPERTY GROUP INC	SPG	ŝ	-	N/A	4.49%	N/A	N/A	N/A
S&P GLOBAL INC	SPGI	Š	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	S	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	\$	38,457.38	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	Ş	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% 0.0131%
MOLSON COORS BREWING CO -B	TAP	\$	17,486.17	0.08%	2.16%	14.00%	16.31% 8.00%	0.0052%
TRANSDIGM GROUP INC	TDG	ş	14,170.71	0.06%	0.00%	8.00%	11.26%	0.0052%
TE CONNECTIVITY LTD	TEL	ş	33,791.45	0.15%	1.68% 3.80%	9.50% 4.50%	8.39%	0.0136%
TARGET CORP	TGT TIF	\$	35,474.01	0.16% 0.06%	2.05%	8.00%	10.13%	0.0059%
TIFFANY & CO	TJX	\$ \$	12,735.78 48,244.72	0.22%	1.64%	10.50%	12.23%	0.0270%
TJX COMPANIES INC	TMK	š	10.441.14	0.05%	0.66%	7.50%	8.18%	0.0039%
TORCHMARK CORP THERMO FISHER SCIENTIFIC INC	TMO	ŝ	76,642.18	0.35%	0.31%	10.50%	10.83%	0.0380%
TAPESTRY INC	TPR	ŝ	12,581.53	0.06%	3.05%	8.00%	11.17%	0.0064%
TRIPADVISOR INC	TRIP	š	4,823.20	0.02%	0.00%	4.50%	4.50%	0.0010%
T ROWE PRICE GROUP INC	TROW	Š	25,335.59	0.12%	2.24%	8.00%	10.33%	0.0120%
TRAVELERS COS INC/THE	TRV	ŝ	36,796.23	0.17%	2.14%	1.00%	3.15%	0.0053%
TRACTOR SUPPLY COMPANY	TSCO	Ś	9,362.21	0.04%	1.57%	9.00%	10.64%	0.0046%
TYSON FOODS INC-CL A	TSN	\$	29,865.88	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	Ş	102,650.20	0.47%	2.38%	10.50%	13.00%	0.0612%
TEXTRON INC	TXT	ş	15,061.21	0.07%	0.14%	12.00%	12.15%	0.0084% 0.0031%
UNDER ARMOUR INC-CLASS A	UAA	ş	6,849.68	0.03%	0.00%	10.00%	10.00% 1.00%	0.0031%
UNITED CONTINENTAL HOLDINGS	UAL	ş	19,931.83	0.09%	0.00%	1.00%		N/A
UDR INC	UDR	ş	10 000 00	N/A	3.29% 0.35%	N/A 9.00%	N/A 9.37%	0.0047%
UNIVERSAL HEALTH SERVICES-B	UHS ULTA	\$ \$	10,893.05 13,959.68	0.05% 0.06%	0.35%	20.00%	20.00%	0.0128%
ULTA BEAUTY INC	UNH	ŝ		0.98%	1.35%	13.50%	14.94%	0.1472%
UNITEDHEALTH GROUP INC	UNM	\$	214,817.60 12,302.04	0.06%	1.68%	11.00%	12.77%	0.0072%
UNUM GROUP UNION PACIFIC CORP	UNP	\$ \$	105,624.60	0.48%	1.99%	8.00%	10.07%	0.0488%
UNITED PARCEL SERVICE-CL B	UPS	ş	102,216.00	0.47%	2.93%	10.00%	13.08%	0.0613%
UNITED RENTALS INC	URI	ŝ	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	ş	101,665.90	0.47%	2.20%	7.50%	9.78%	0.0456%
VISA INC-CLASS A SHARES	v	s	234,936.90	1.08%	0.75%	11.50%	12.29%	0.1324%
VARIAN MEDICAL SYSTEMS INC	VAR	ŝ	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	ş	· · · ·	N/A	5.55%	N/A	N/A	N/A
VERIZON COMMUNICATIONS INC	VZ	ş	216,251.20	0.99%	4.45%	2.00%	6.49%	0.0644%
WATERS CORP	WAT	ş	15,468.62	0.07%	0.00%	8.50%	8.50% 13.30%	0.0060% 0.0478%
WALGREENS BOOTS ALLIANCE INC	WBA	\$ S	78,384.53	0.36%	2.18% 2.47%	11.00% 13.00%	15.63%	0.0478%
WESTERN DIGITAL CORP	WDC	Ş	23,844.85	0.11%	2.41 70	10.00 %	10.0075	9.917 I P2

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WEC ENERGY GROUP INC	WEC	\$	20,708.10	0.09%	3.37%	6.00%	9.47%	0.0090%
WELLS FARGO & CO	WFC	Ś	303,606.10	1.39%	2.58%	5.00%	7.64%	0.1064%
WHIREPOOL CORP	WHR	Ś	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	WA4	\$	37,250.63	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	Ś	291,042.10	1.33%	2.10%	5.50%	7.66%	0.1022%
WESTROCK CO	WRK	Ş	16,247.28	0.07%	2.69%	10.00%	12.82%	0.0096%
WESTERN UNION CO	WU	s	8,846.12	0.04%	3.63%	5.50%	9.23%	0.0037%
WEYERHAEUSER CO	WY	Ś	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	Ś	11,315.10	0.05%	0.27%	31.00%	31.31%	0.0162%
XCEL ENERGY INC	XEL	Ś	24,570.65	0.11%	3.10%	4.50%	7.67%	0.0086%
XL GROUP LTD	XL	Ś	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	Ś	355,272.50	1.63%	3.72%	10.50%	14.42%	0.2348%
DENTSPLY SIRONA INC	XRAY	Ś	15.038.80	0.07%	0.53%	8.50%	9.05%	0.0062%
XEROX CORP	XRX	Ś	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	S	27.967.50	0.13%	1.60%	6.50%	8,15%	0.0105%
ZIMMER BIOMET HOLDINGS INC	ZBH	Ś	24.277.88	0.11%	0.90%	11.00%	11.95%	0.0133%
ZIONS BANCORPORATION	ZION	Ś	10.277.18	0.05%	1.63%	13.50%	15.24%	0.0072%
ZOETIS INC	ZTS	Ś	35,260,50	0.16%	0.70%	12.00%	12.74%	0.0206%
Total	Market Capitalization	: S :	21,809,944.56					14.67%

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] x (1 + (0.5 x [7]))) + [7] [9] Equals Col. [5] x Col. [8]

		[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	0.712

Bloomberg and Value Line Beta Coefficients

Notes:

Source: Bloomberg Professional
 Source: Value Line

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

	[1]	[2]	[3]	[4]	[5]	[6]
			Ex-Ante Marke	t Risk Premium	CAPM	Result
		Average	Bloomberg	Value Line	Bloomberg	Value Line
	Risk-Free	Beta	Market DCF	Market DCF	Market DCF	Market DCF
	Rate	Coefficient	Derived	Derived	Derived	Derived
PROXY GROUP AVERAGE BLOOMBERG BETA CO	EFFICIENT					
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%

			Ex-Ante Marke	t Risk Premium	CAPM	Result
	Risk-Free Rate	Average Beta Coefficient	Bloomberg Market DCF Derived	Value Line Market DCF Derived	Bloomberg Market DCF Derived	Value Line Market DCF Derived
PROXY GROUP AVERAGE VALUE LINE AVERAGE	BETA COEFFICIE	INT				
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] x Col. [3])

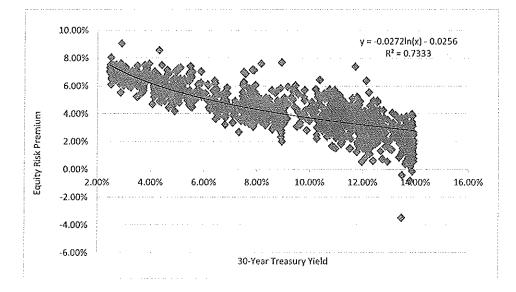
[6] Equals Col. [1] + (Col. [2] x Col. [4])

[7] Bloomberg Professional

[8] Source: Blue Chip Financial Forecasts, Vol. 37, No. 1, January 1, 2018, at 2.

Bond Yield Plus Risk Premium

	[1]	[2]	[3] 30-Year	[4]	[5]
			Treasury	Risk	Return on
	Constant	Slope	Yield	Premium	Equity
	-2.56%	-2.72%			
·	Current 30-	Year Treasury	2.77%	7.18%	9.95%
Near-Term	Projected 30-	Year Treasury	3.32%	6.69%	10.01%
Long-Term	n Projected 30-	Year Treasury	4.20%	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] + In([3]) x [2]
- [5] Equals [3] + [4]
- [6] Source: S&P Global Market Intelligence
- [7] Source: S&P Global Market Intelligence
- [8] Source: Bloomberg Professional, equais 200-trading day average (i.e. lag period)
- [9] Equals [7] [8]

B	ond 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	14.30%	11.02%	5.08%
10/17/1980	14.50%	11.03%	3.47%
10/31/1980	13.75%	11.11%	2.64%
	14.25%	11.11%	3.14%
10/31/1980	14.23%	11.12%	3.88%
11/4/1980		11.12%	2.63%
11/5/1980	13.75%	11.12%	2.88%
11/5/1980	14.00% 13.75%	11.12%	2.61%
11/8/1980	13.75%	11.14%	3.70%
11/10/1980	14.00%	11.13%	2.82%
11/17/1980 11/18/1980	14.00%	11.10%	2.82%
	14.00%	11.19%	2.81%
11/19/1980		11.19%	2.79%
11/24/1980	14.00%	11.21%	2.79%
11/26/1980	14.00%		2.93%
12/8/1980	14.15%	11.22%	2.93%
12/8/1980	15.10%	11.22%	3.88 <i>%</i> 4.13%
12/9/1980	15.35%	11.22% 11.23%	4.13%
12/12/1980	15.45%		4.22 <i>%</i> 2.02%
12/17/1980	13.25%	11.23%	
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%

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%
	13.57%	11.82%	1.75%
4/13/1981		11.85%	3.45%
4/15/1981	15.30%		3.45% 1.63%
4/16/1981	13.50%	11.87%	
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	1 4.88%	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%
111100	10.0070	12.0070	

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	14.00 %	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%
12/30/1901	14,2070	10.01 /0	0.0070

·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%
	14.75%	13.74%	1.01%
1/13/1982	14.75%	13.75%	2.00%
1/14/1982			2.00%
1/15/1982	15.00%	13.76%	
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%
V/ 11 1302	10.1070	10.0070	V. TT /U

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%
			0.0070
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%	4.20% 2.27%
12/6/1982	16.35%	12.73%	3.62%
12/10/1982	15.50%	12.75%	3.02 <i>%</i> 2.84%
12/13/1982	15.50%		2.84% 3.35%
12/13/1982		12.65%	
	15.30%	12.63%	2.67%
12/14/1982	16.40%	12.63%	3.77%

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%	12.22%	2.78%
1/24/1983		12.21%	2.29%
	15.50% 15.85%		
1/25/1983		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%	4.49% 4.52%
5/27/1983	15.00%	10.98%	4.52% 4.04%
5/31/1983	15.00%	10.96%	
			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	14.50%	10.91%	5.59%
	14.50%	10.94%	3.56%
9/28/1983	14.50%	10.95%	4.55%
9/29/1983		10.95%	4.30%
9/30/1983	15.25%		4.30% 5.20%
9/30/1983	16.15%	10.95%	
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%
1/3/1984	14.75%	11.27%	3.48%
1/10/1984	15.90%	11.30%	4.60%
1/10/1984	15.60%	11.31%	4.29%
	13.75%	11.31%	4.29% 2.42%
1/18/1984		11.33%	2.42% 4.57%
1/19/1984	15.90%		4.57% 4.73%
1/30/1984	16.10%	11.37%	
1/31/1984	15.25%	11.37%	3.88%
2/1/1984	14.80%	11.38%	3.42%

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%

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%
	12.38%	7.47%	4.91%
3/4/1987	13.50%	7.47%	6.03%
3/10/1987		7.47%	5.53%
3/13/1987	13.00%		5.54%
3/31/1987	13.00%	7.46%	
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%

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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%
10/20/1001	12.0070	5.2070	

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	12.75%	8.06%	3.94%
1/2/1992	13.00%	8.06%	4.94%
	12.65%	8.05%	4.60%
1/27/1992			4.00% 3.96%
1/31/1992	12.00%	8.04%	3.90% 4.37%
2/11/1992	12.40%	8.03%	
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%
1212011332	16.20/0	7.0070	T. V. /U

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	12.00%	7.19%	4.31%
6/18/1993	12.10%	7.18%	4.92%
6/25/1993	11.67%	7.17%	4.52%
7/21/1993	11.38%	7.10%	4.30%
			4.20%
7/23/1993	10.46%	7.09%	3.37% 4.54%
8/24/1993	11.50%	6.96%	
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%
12/13/1994	11.0070	1.00/0	0.0270

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%
		7.12%	4.03%
9/29/1995	11.00%		
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%

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	12.30%	5.88%	6.22%
1/23/2000	11.25%	5.79%	5.46%
2/8/2001	11.50%	5.77%	5.73%
	10.75%	5.62%	5.13%
5/8/2001 6/26/2001	10.75%	5.62%	5.38%
7/25/2001	11.02%	5.60%	5.42%
	11.02%	5.60%	5.42%
7/25/2001	11.02%	5.59%	5.42 <i>%</i> 5.41%
7/31/2001	10.50%	5.59% 5.56%	4.94%
8/31/2001	10.50%	5.55%	4.94 <i>%</i> 5.20%
9/7/2001 9/10/2001	10.75%	5.55%	5.20% 5.45%
		5.55%	5.45% 4.45%
9/20/2001	10.00%		4.45%
10/24/2001	10.30%	5.54%	4.70% 5.11%
11/28/2001	10.60% 12.88%	5.49% 5.40%	5.11% 7.39%
12/3/2001		5.49% 5.60%	
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%

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	10.35%	5.08%	5,17%
	10.25%	5.08%	5.17%
5/27/2004		5.08%	5.17 <i>%</i> 6.14%
6/2/2004	11.22%	5.10%	5.40%
6/30/2004	10.50%		5.40% 5.40%
6/30/2004	10.50%	5.10%	5.40% 6.49%
7/16/2004	11.60%	5.11%	
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%

	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%

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%
3/12/2009	11.50%	3.93%	7.57%
4/2/2009	11.10%	3.85%	7.25%
4/21/2009	10.61%	3.80%	6.81%
4/24/2009	10.00%	3.79%	6.21%

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	10.00%	4.09%	6.61%
11/3/2009	10.70%	4.10%	6.60%
11/24/2009	10.25%	4.15%	6.10%
	10.25%	4.15%	6.59%
11/25/2009			
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%
	10.10%	4.43%	5.67%
4/2/2010		4.43%	5.54%
4/27/2010	10.00%		5.44%
4/29/2010	9.90%	4.46%	
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%

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%
2/25/2011	10.00%	4.14%	5.86%
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%
8/8/2011	10.00%	4.38%	5.62%
8/11/2011	10.00%	4.38%	5.62%
8/12/2011	10.35%	4.37%	5.98%
8/19/2011	10.25%	4.36%	5.89%
9/2/2011	12.88%	4.32%	8.56%
9/22/2011	10.00%	4.24%	5.76%

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%
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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%

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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%
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8/25/2014	9.60%	3.56%	6.04%
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10/9/2014	9.80%	3.45%	6.35%
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11/6/2014	10.20%	3.37%	6.83%
11/14/2014	10.20%	3.35%	6.85%
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9/10/2015	9.30%	2.79%	6.51%
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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%
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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%
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11/10/2016	9.50%	2.48%	7.02%
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4/4/2017	10.25%	2.71%	7.54%
4/12/2017	9.40%	2.74%	6.66%
4/20/2017	9.50% 9.50%	2.76% 2.79%	6.74% 6.71%
5/3/2017 5/11/2017	9.50% 9.20%	2.79%	6.39%
5/18/2017	9.20% 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%
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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%
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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%
	9.40%		6.55%

# of Cases:	1541
Average:	4.61%

Alternative Bond Yield Plus Risk Premium Analyses

	[1]	[2]	[3]	[4]
	30-Year	Moody's Utility	Moody's Utility A	
	Treasury Yield	A Yield	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					

ANOVA

	df	SŚ	MS	F	Significance F
Regression	3	0.047303817	0.015767939	549,154412	4.5268E-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	2.5451E-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 Spread	0.194808374	0.085685578	2.273525822	0.023301857	0.026571766	0.363044981	0.026571766	0.363044981
VIX	0.000178794	5.5527E-05	3.219948155	0.001342431	6.97713E-05	0.000287817	6.97713E-05	0.000287817

	Risk Premium	Return on 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 Professional [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, 2017
 [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, 2017

- [12] Equals [6] [7]

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Doto of Electric Det. O	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	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			4.32%
4/11/1980	12.75%	10.27%		-2.28			2.48%
4/14/1980	13.85%	10.29%		-2.27			2.40% 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			
5/9/1980	14.35%	10.47%		-2.26			3.29% 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			3.08% 4.06%
5/29/1980	16.00%	10.56%		-2.25			
5/30/1980	13.80%	10.56%		-2.25			5.44%
6/2/1980	15.63%	10.57%		-2.25			3.24%
6/9/1980	15.90%	10.60%		-2.24			5.06%
6/10/1980	13.78%	10.60%		-2.24			5.30%
6/12/1980	14.25%	10.61%		-2.24			3.18%
6/19/1980	13.40%	10.62%		-2.24			3.64%
				-2.2-7			2.78%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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			2.93%
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%
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%

	[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
		Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
<u></u>	Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
	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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
 4/15/1981	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
	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 4/27/1981	16.00%	11.95%		-2.12			4.05%
	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%
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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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			
12/16/1981	15.25%	13.63%		-1.99			2.37%
							1.62%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Data of Florida Data of	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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%
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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Data of Classic Data of	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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			3.90% 1.87%
6/15/1982	14.85%	13.88%		-1.97			0.97%
6/18/1982	15.50%	13.87%		-1.98			
6/21/1982	14.90%	13.87%		-1.98			1.63%
6/23/1982	16.00%	13.86%		-1.98			1.03%
6/23/1982	16.17%	13.86%		-1.98			2.14%
6/24/1982	14.85%	13.86%		-1.98			2.31%
6/25/1982	14.70%	13.86%		-1.98			0.99%
7/1/1982	16.00%	13.84%		-1.98			0.84%
7/2/1982	15.62%	13.84%	•	-1.98			2.16%
7/2/1982	17.00%	13.84%		-1.98			1.78%
7/13/1982	14.00%	13.82%		-1.98			3.16%
7/13/1982	16.80%	13.82%		-1.98			0.18%
7/14/1982	15.76%	13.82%		-1.98			2.98%
7/14/1982	16.02%	13.82%		-1.98			1.94%
7/19/1982	16.50%	13.80%		-1.98			2.20%
7/22/1982	14.50%	13.77%		-1.98			2.70%
7/22/1982	17.00%	13.77%		-1.98			0.73%
7/27/1982	16.75%	13.75%		-1.98			3.23%
7/29/1982	16.50%	13.74%		-1.99			3.00%
8/11/1982	17.50%	13.68%		-1.99			2.76%
8/18/1982	17.07%	13.63%		-1.99			3.82%
8/20/1982	15.73%	13.60%		-1.99			3.44%
8/25/1982	16.00%	13.57%		-2.00			2.13%
8/26/1982	15.50%	13.56%		-2.00			2.43%
8/30/1982	15.00%	13.55%		-2.00			1.94%
		10.0070		-2.00			1.45%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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			
10/22/1982	15.75%	13.24%		-2.02			2.58%
10/22/1982	17.15%	13.24%		-2.02			2.51%
10/29/1982	15.54%	13.16%		-2.02			3.91%
11/1/1982	15.50%	13.15%		-2.03			2.38%
11/3/1982	17.20%	13.13%		-2.03			2.35%
11/4/1982	16.25%	13.11%		-2.03			4.07%
11/5/1982	16.20%	13.09%		-2.03			3.14%
11/9/1982	16.00%	13.05%		-2.03			3.11%
11/23/1982	15.50%	12.89%		-2.04			2.95%
11/23/1982	15.85%	12.89%					2.61%
11/30/1982	16.50%	12.81%		-2.05			2.96%
12/1/1982	17.04%	12.79%		-2.06			3.69%
12/6/1982	15.00%	12.73%		-2.06			4.25%
12/6/1982	16.35%	12.73%		-2.06			2.27%
12/10/1982	15.50%	12.66%		-2.06			3.62%
12/13/1982	16.00%			-2.07			2.84%
12/14/1982	15.30%	12.65% 12.63%		-2.07			3.35%
12/14/1982	16.40%			-2.07			2.67%
12/20/1982		12.63%		-2.07			3.77%
12/21/1982	16.00%	12.57%		-2.07			3.43%
12/21/1982	14.75%	12.56%		-2.07			2.19%
12/2/1982	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%
12/29/1982	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%
	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%

Date of Electric Rate Case (%) Yield Treasury Credit Spread VIX Risk Premium 1/2/1/1983 15,00% 12,22% 2:10 5:51% 1/2/1/1983 15,50% 12,21% 2:10 2.29% 1/2/1/1983 15,55% 12,21% 2:10 3.29% 1/2/1/1983 15,55% 12,11% 3.66% 3.29% 1/2/1/1983 16,14% 12,17% 2:11 3.66% 2/1/1/1983 16,00% 12,10% 2:11 6.37% 2/2/1/1983 15,50% 12,06% 2:11 1.00% 2/2/1/1983 15,50% 11,95% 2:12 3.53% 2/2/2/1983 15,00% 11,96% 2:12 3.53% 2/2/2/1983 15,00% 11,96% 2:12 3.33% 3/2/2/1983 15,00% 11,96% 2:12 3.33% 3/2/2/1983 15,00% 11,96% 2:12 3.38% 3/2/2/1983 15,00% 11,95% 2:15 3.75%	[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Data of Electric Data Occa-	Equity	Treasury	Moody's Utility A		Moody's Utility A		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			(%)			Credit Spread	VIX	Risk Premium
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					-2.10			5.51%
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					-2.10			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					-2.10			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					-2.10			
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$					-2.11			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					-2.12			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			11.96%					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2/23/1983	16.00%	11.96%					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		15.25%						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/9/1983							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/15/1983	13.00%						3.30%
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/18/1983							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/23/1983		11.69%					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/24/1983							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/29/1983							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								3.41%
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		15.50%						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		14 50%						
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
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 3.89% 5/25/1983 15.50% 10.98% -2.21 4.49% 5/27/1983 15.00% 10.98% -2.21 4.04% 5/31/1983 14.00% 10.95% -2.21 3.05% 5/31/1983 14.00% 10.95% -2.21 3.05% 6/2/1983 14.50% 10.93% -2.21 3.05% 6/17/1983 15.03% 10.93% -2.21 3.05% 6/17/1983 15.03% 10.84% -2.22 4.19% 7/1/1983 14.80% 10.78% -2.23 4.02%								
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%								
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%								
5/31/1983 15.50% 10.95% -2.21 3.05% 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%								
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%								
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 14.80% 10.78% -2.23 4.02%								
7/1/1965 14.80% 10.78% -2.23 4.02%								4.19%
								4.02%
7/1/1963 14.90% 10.78% -2.23 4.12%								
7/8/1983 16.25% 10.76% -2.23 5.49%	(10) 1983	10.25%	10.76%		-2.23			5.49%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A Yield	LN(30-Year Treasury)	Moody's Utility A		
7/13/1983	13.20%	10.75%		-2.23	Credit Spread	VIX	Risk Premium
7/19/1983	15.00%	10.74%		-2.23			2.45%
7/19/1983	15.10%	10.74%					4.26%
7/25/1983	16.25%	10.73%		-2.23 -2.23			4.36%
7/28/1983	15.90%	10.74%		-2.23			5.52%
8/3/1983	16.34%	10.75%		-2.23			5.16%
8/3/1983	16.50%	10.75%					5.59%
8/19/1983	15.00%	10.80%		-2.23 -2.23			5.75%
8/22/1983	15.50%	10.80%					4.20%
8/22/1983	16.40%	10.80%		-2.23			4.70%
8/31/1983	14.75%	10.84%		-2.23			5.60%
9/7/1983	15.00%	10.86%		-2.22			3.91%
9/14/1983	15.78%	10.89%		-2.22			4.14%
9/16/1983	15.00%	10.89%		-2.22			4.89%
9/19/1983	14.50%			-2.22			4.10%
9/20/1983	16.50%	10.91%		-2.22			3.59%
9/28/1983		10.91%		-2.22			5.59%
9/29/1983	14.50% 15.50%	10.94%		-2.21			3.56%
9/30/1983		10.95%		-2.21			4.55%
9/30/1983	15.25% 16.15%	10.95%		-2.21			4.30%
10/4/1983		10.95%		-2.21			5.20%
10/7/1983	14.80% 16.00%	10.96%		-2.21			3.84%
10/13/1983		10.97%		-2.21			5.03%
10/13/1303	15.52% 15.50%	10.99%		-2.21			4.53%
10/18/1983		11.00%		-2.21			4.50%
10/13/1303	14.50%	11.00%		-2.21			3.50%
10/19/1983	16.25%	11.01%		-2.21			5.24%
10/26/1983	16.50%	11.01%		-2.21			5.49%
10/27/1983	15.00%	11.04%		-2.20			3.96%
11/1/1983	15.20%	11.04%		-2.20			4.16%
11/9/1983	16.00%	11.06%		-2.20			4.94%
11/10/1983	14.90%	11.09%		-2.20			3.81%
	14.35%	11.10%		-2.20			3.25%
11/23/1983 11/23/1983	16.00%	11.13%		-2.20			4.87%
	16.15%	11.13%		-2.20			5.02%
11/30/1983 12/5/1983	15.00%	11.14%		-2.19			3.86%
	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%

[5]	[6] Return on Equity	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	(%)	Treasury (%)	Moody's Utility A Yield	LN(30-Year Treasury)	Moody's Utility A Credit Spread	1014	
12/20/1983	16.25%	11.22%		-2.19	Credit Spread	VIX	Risk Premium
12/22/1983	14.75%	11.23%		-2.19			5.03%
12/22/1983	15.75%	11.23%		-2.19			3.52%
1/3/1984	14.75%	11.27%		-2.19			4.52%
1/10/1984	15.90%	11.30%		-2.18			3.48%
1/12/1984	15.60%	11.31%		-2.18			4.60%
1/18/1984	13.75%	11.33%		-2.18			4.29%
1/19/1984	15.90%	11.33%		-2.18			2.42%
1/30/1984	16.10%	11.37%		-2.18			4.57%
1/31/1984	15.25%	11.37%		-2.17			4.73%
2/1/1984	14.80%	11.38%					3.88%
2/6/1984	13.75%	11.40%		-2.17			3.42%
2/6/1984	14.75%	11.40%		-2.17			2.35%
2/9/1984	15.25%	11.40%		-2.17			3.35%
2/0/1004	15.70%			-2.17			3.83%
2/20/1984	15.00%	11.44%		-2.17			4.26%
2/20/1984		11.46%		-2.17			3.54%
2/22/1984	15.00% 14.75%	11.46%		-2.17			3.54%
2/28/1984		11.47%		-2.17			3.28%
3/2/1984	14.50% 14.25%	11.51%		-2.16			2.99%
3/20/1984		11.54%		-2.16			2.71%
3/23/1984	16.00%	11.64%		-2.15			4.36%
3/26/1984	15.50%	11.67%		-2.15			3.83%
4/2/1984	14.71%	11.68%		-2.15			3.03%
4/2/1984 4/6/1984	15.50%	11.71%		-2.14			3.79%
4/0/1984 4/11/1984	14.74%	11.75%		-2.14			2.99%
4/17/1984	15.72%	11.78%		-2.14			3.94%
4/17/1984 4/18/1984	15.00%	11.81%		-2.14			3.19%
	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 5/16/1984	14.69%	11.98%		-2.12			2.71%
	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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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			
9/13/1984	15.00%	12.55%		-2.08			2.21%
9/17/1984	17.38%	12.56%		-2.08			2.45%
9/26/1984	14.50%	12.57%		-2.08			4.82%
9/28/1984	15.00%	12.57%		-2.07			1.93%
9/28/1984	16.25%	12.57%		-2.07			2.43%
10/9/1984	14.75%	12.58%		-2.07 -2.07			3.68%
10/12/1984	15.60%	12.59%					2.17%
10/22/1984	15.00%	12.59%		-2.07			3.01%
10/26/1984	16.40%	12.58%		-2.07			2.41%
10/31/1984	16,25%	12.58%		-2.07			3.82%
11/7/1984	15.60%			-2.07			3.67%
11/9/1984		12.58%		-2.07			3.02%
11/14/1984	16.00%	12.58%		-2.07			3.42%
11/20/1984	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%
11/25/1964	15.00%	12.58%		-2.07			2.42%
	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			4.33% 2.50%
1/31/1985	14.75%	12.39%		-2.09			
2/8/1985	14.47%	12.35%		-2.09			2.36%
	· · · · · · · · · · · · · · · · · · ·			- 2.			2.12%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A	LN(30-Year	Moody's Utility A		
3/1/1985	13.84%	12.31%	Yield	Treasury)	Credit Spread	VIX	Risk Premium
3/8/1985	16.85%	12.31%		-2.10			1.53%
3/14/1985	15.50%			-2.10			4.57%
3/15/1985	15.62%	12.25% 12.25%		-2.10			3.25%
3/29/1985	15.62%			-2.10			3.37%
4/3/1985		12.17%		-2.11			3.45%
4/9/1985	14.60%	12.14%		-2.11			2.46%
4/16/1985	15.50%	12.11%		-2.11			3.39%
4/22/1985	15.70%	12.06%		-2.12			3.64%
4/26/1985	14.00%	12.02%		-2.12			1.98%
4/20/1985	15.50%	11.98%		-2.12			3.52%
5/2/1985	15.00%	11.97%		-2.12			3.03%
	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			3.49%
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			
9/27/1985	15.80%	11.05%		-2.20			4.45%
10/2/1985	14.00%	11.03%		-2.20			4.75%
10/2/1985	14.75%	11.03%		-2.20			2.97%
10/3/1985	15.25%	11.03%		-2.20			3.72%
10/24/1985	15.40%	10.96%		-2.21			4.22%
10/24/1985	15.82%	10.96%		-2.21			4.44%
10/24/1985	15.85%	10.96%		-2.21			4.86%
10/28/1985	16.00%	10.95%		-2.21			4.89%
10/29/1985	16.65%	10.94%		-2.21			5.05%
10/31/1985	15.06%	10.93%		-2.21			5.71%
11/4/1985	14.50%	10.92%		-2.21			4.13%
11/7/1985	15.50%	10.92%					3.58%
11/8/1985	14.30%	10.90%		-2.22			4.60%
12/12/1985	14.75%	10.89%		-2.22			3.41%
	17.7 570	10.7376		-2.23			4.02%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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%
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%
							0.0070

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
10/3/1986	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
10/31/1986	13.40%	7.93%		-2.53			5.47%
	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%
							4.0770

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
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%
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			
1/26/1988	13.90%	8.95%		-2.41			4.86%
1/29/1988	13.20%	8.96%		-2.41			4.95%
2/4/1988	12.60%	8.96%		-2.41			4.24%
3/1/1988	11.56%	8.94%		-2.41			3.64%
3/23/1988	12.87%	8.92%		-2.42			2.62%
3/24/1988	11.24%	8.92%		-2.42			3.95%
3/30/1988	12.72%	8.92%		-2.42			2.32%
4/1/1988	12.50%	8.92%		-2.42			3.80%
4/7/1988	13.25%	8.93%		-2.42			3.58%
4/25/1988	10.96%	8.96%		-2.41			4.32%
5/3/1988	12.91%	8.97%		-2.41			2.00%
5/11/1988	13.50%	8.99%		-2.41			3.94%
5/16/1988	13.00%	8.99%		-2.41			4.51%
6/30/1988	12.75%	9.00%		-2.41			4.01%
7/1/1988	12.75%	8.99%		-2.41			3.75%
7/20/1988	13.40%	8.96%		-2.41			3.76%
8/5/1988	12.75%	8.92%		-2.41			4.44%
8/23/1988	11.70%	8.93%		-2.42			3.83%
8/29/1988	12.75%	8.94%		-2.42 -2.41			2.77%
8/30/1988	13.50%	8.94%					3.81%
9/8/1988	12.60%	8.95%		-2.41			4.56%
10/13/1988	13.10%	8.93%		-2.41			3.65%
12/19/1988	13.00%	9.02%		-2.42			4.17%
12/20/1988	12.25%	9.02%		-2.41			3.98%
12/20/1988	13.00%	9.02%		-2.41			3.23%
12/21/1988	12.90%	9.02%		-2.41			3.98%
12/27/1988	13.00%	9.02 %		-2.41			3.88%
12/28/1988	13.10%	9.03%		-2.40			3.97%
12/30/1988	13.40%	9.03%		-2.40			4.07%
	10.40 /0	3.04%		-2.40			4.36%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
1/27/1989		(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
1/31/1989	13.00%	9.05%		-2.40		<u> </u>	3.95%
2/17/1989	13.00%	9.05%		-2.40			3.95%
2/1//1989	13.00%	9.05%		-2.40			3.95%
3/1/1989	12.40%	9.05%		-2.40			3.35%
	12.76%	9.05%		-2.40			3.71%
3/8/1989 3/30/1989	13.00%	9.05%		-2.40			3.95%
	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		20.32	4.17%
7/6/1990	12.10%	8.34%		-2.48		20.43	3.76%
7/6/1990	12.35%	8.34%		-2.48		20.33	3.76% 4.01%
				•		20.00	4.0170

[5]	[6] Return on	[7] _30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A Yield	LN(30-Year	Moody's Utility A		
8/10/1990	12.55%	8.41%		Treasury) -2.48	Credit Spread	VIX	Risk Premium
8/16/1990	13.21%	8.43%				20.52	4.14%
8/22/1990	13.10%	8.45%		-2.47		20.64	4.78%
8/24/1990	13.00%	8.46%		-2.47		20.82	4.65%
9/26/1990	11.45%	8.59%		-2.47		21.00	4.54%
10/2/1990	13.00%	8.61%		-2.45		21.96	2.86%
10/5/1990	12.84%	8.62%		-2.45		22.09	4.39%
10/19/1990	13.00%	8.67%		-2.45		22.18	4.22%
10/25/1990	12.30%	8.68%		-2.45		22.68	4.33%
11/21/1990	12.70%	8.69%		-2.44		22.81	3.62%
12/13/1990	12.30%	8.67%		-2.44		22.98	4.01%
12/17/1990	12.87%	8.67%		-2.44		22.96	3.63%
12/18/1990	13.10%	8.67%		-2.45		22.99	4.20%
12/19/1990	12.00%			-2.45		23.00	4.43%
12/10/1990	12.00%	8.66%		-2.45		23.02	3.34%
12/21/1990	12.75%	8.66%		-2.45		23.04	4.09%
12/27/1990	12.50%	8.66%		-2.45		23.05	3.84%
1/2/1991	12.79%	8.66%		-2.45		23.11	4.13%
1/4/1991	13.10%	8.65%		-2.45		23.23	4.45%
1/15/1991	12.50%	8.65%		-2.45		23.31	3.85%
1/25/1991	12.75%	8.64%		-2.45		23.74	4.11%
2/4/1991	11.70%	8.63%		-2.45		23.92	3.07%
2/7/1991	12.50%	8.60%		-2.45		23.93	3.90%
2/12/1991	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%
	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%

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[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
10/23/1991	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
	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		17.23	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%
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	4.70% 4.29%
9/28/1992	11.40%	7.71%		-2.56		15.90	
				2.00		15.79	3.69%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
9/30/1992	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
10/2/1992	11.75%	7.70%		-2.56		15.76	4.05%
10/12/1992	13.00%	7.70%		-2.56		15.75	5.30%
10/12/1992	12.20%	7.70%		-2.56		15.86	4.50%
10/30/1992	13.16%	7.70%		-2.56		15.84	5.46%
11/3/1992	11.75%	7.71%		-2.56		15.75	4.04%
12/3/1992	12.00%	7.71%		-2.56		15.75	4.29%
12/15/1992	11.85%	7.68%		-2.57		15.37	4.17%
12/16/1992	11.00%	7.66%		-2.57		15.19	3.34%
12/16/1992	11.90%	7.66%		-2.57		15.16	4.24%
12/17/1992	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%
	12.40%	7.65%		-2.57		15.01	4.75%
12/29/1992 12/30/1992	12.25%	7.63%	8.36%	-2.57	0.73%	14.87	4.62%
	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 12/21/1993	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%

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[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A	LN(30-Year	Moody's Utility A		
1/4/1994	10.07%	(%) 6.44%	Yield	Treasury)	Credit Spread	VIX	Risk Premium
1/13/1994				-2.74	1.01%	12.50	3.63%
1/21/1994	11.00%	6.42%		-2.75	1.01%	12.46	4.58%
1/28/1994	11.00% 11.35%	6.40%		-2.75	1.01%	12.39	4.60%
2/3/1994		6.39%		-2.75	1.01%	12.37	4.96%
2/17/1994	11.40%	6.38%		-2.75	1.01%	12.34	5.02%
2/25/1994	10.60%	6.36%		-2.76	1.01%	12.38	4.24%
2/25/1994	11.25%	6.35%		-2.76	1.02%	12.40	4.90%
3/1/1994	12.00%	6.35%		-2.76	1.02%	12.40	5.65%
3/4/1994	11.00%	6.35%		-2.76	1.02%	12.41	4.65%
4/25/1994	11.00%	6.35%		-2.76	1.02%	12.44	4.65%
5/10/1994	11.00%	6.41%	7.42%	-2.75	1.01%	13.02	4.59%
5/13/1994	11.75%	6.45%	7.45%	-2.74	1.01%	13.19	5.30%
6/3/1994	10.50%	6.46%	7.47%	-2.74	1.01%	13.24	4.04%
6/27/1994	11.00%	6.54%	7.53%	-2.73	0.99%	13.31	4.46%
8/5/1994	11.40%	6.65%	7.63%	-2.71	0.98%	13.42	4.75%
10/31/1994	12.75%	6.88%	7.82%	-2.68	0.95%	13.41	5.87%
11/9/1994	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%
	10.85%	7.39%	8.28%	-2.61	0.89%	13.92	3.46%
11/18/1994 11/22/1994	11.20%	7.45%	8.33%	-2.60	0.88%	14.12	3.75%
	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%
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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A	LN(30-Year	Moody's Utility A		
9/11/1995	11.30%	7.20%	Yield	Treasury)	Credit Spread		Risk Premium
9/27/1995	11.30%	7.12%		-2.63	0.97%	12.51	4.10%
9/27/1995	11.50%	7.12%		-2.64	0.98%	12.25	4.18%
9/27/1995	11.75%	7.12%		-2.64	0.98%	12.25	4.38%
9/29/1995	11.00%	7.12%		-2.64	0.98%	12.25	4.63%
11/9/1995				-2.64	0.98%	12.24	3.89%
11/9/1995	11.38% 12.36%	6.90%		-2.67	1.01%	12.46	4.48%
11/17/1995		6.90%		-2.67	1.01%	12.46	5.46%
12/4/1995	11.00%	6.86%		-2.68	1.02%	12.50	4.14%
12/1/1995	11.35%	6.78%		-2.69	1.04%	12.51	4.57%
12/20/1995	11.40%	6.74%		-2.70	1.04%	12.52	4.66%
12/20/1995	11.60%	6.70%		-2.70	1.05%	12.50	4.90%
2/5/1996	12.00%	6.66%		-2.71	1.06%	12.48	5.34%
	12.25%	6.48%		-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%	17.23	
3/31/1997	10.02%	6.80%	7.81%	-2.69	1.00%		4.98%
4/2/1997	11.65%	6.80%	7.80%	-2.69	1.00%	17.83	3.22%
4/28/1997	11.50%	6.81%	7.80%	-2.69	0.99%	17.86	4.85%
4/29/1997	11.70%	6.81%	7.80%	-2.69	0.99%	18.20	4.69%
7/17/1997	12.00%	6.77%	7.75%	-2.69		18.21	4.89%
12/12/1997	11.00%	6.60%	7.60%	-2.72	0.97%	19.03	5.23%
12/23/1997	11.12%	6.57%	7.58%	-2.72	1.00%	22.57	4.40%
2/2/1998	12.75%	6.39%	7.47%	-2.72	1.01%	22.84	4.55%
3/2/1998	11.25%	6.29%	7.39%	-2.75	1.08%	23.43	6.36%
3/6/1998	10.75%	6.27%	7.38%	-2.77	1.10%	23.40	4.96%
3/20/1998	10.50%	6.22%	7.34%	-2.78	1.11%	23.37	4.48%
	10.0070	0.22 /0	1.0470	-2.10	1.12%	23.35	4.28%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
4/30/1998	12.20%	6.12%		-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%
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%

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[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
7/15/2002	11.00%	5.48%		-2.90	2.13%	24.13	5.52%
9/12/2002	12.30%	5.45%		-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 11/9/2004	10.40%	5.10%	6.25%	-2.98	1.16%	16.36	5.30%
11/9/2004 11/23/2004	10.50%	5.07%	6.20%	-2.98	1.13%	15.94	5.43%
	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 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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
12/22/2004	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
12/22/2004	10.70%	5.07%		-2.98	1.10%	15.49	5.63%
	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%
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%	13.24	4.75%
11/21/2006	10.08%	4.95%	6.15%	-3.01	1.19%	13.29	5.13%
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[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
 Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
12/31/2007	11.25%	4.85%		-3.03	1.27%	18.86	6.40%
1/8/2008	10.75%	4.83%		-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%		-3.04	1.33%	19.95	4.60%
1/30/2008	10.00%	4.79%		-3.04	1.33%	20.10	5.21%
1/31/2008	10.71%	4.79%		-3.04	1.34%	20.17	5.92%
2/29/2008	10.25%	4.75%		-3.05	1.40%	21.41	5.50%
3/12/2008	10.25%	4.73%		-3.05	1.43%	21.95	5.52%
3/25/2008	9.10%	4.68%		-3.06	1.48%	22.51	4.42%
4/22/2008	10.25%	4.60%		-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%		-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%		-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%
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%		-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%		-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%		-3.11	1.85%	24.58	5.69%
11/13/2008	10.55%	4.45%		-3.11	2.08%	29.55	6.10%
11/17/2008	10.20%	4.44%		-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%		-3.15	2.35%	34.10	6.73%
12/29/2008	10.00%	4.24%		-3.16	2.38%	34.33	5.76%
12/29/2008	10.20%	4.24%		-3.16	2.38%	34.33	5.96%
12/31/2008	10.75%	4.22%		-3.17	2.40%	34.45	6.53%
1/14/2009	10.50%	4.15%		-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%		-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%		-3.20	2.56%	36.50	6.42%
2/4/2009	8.75%	4.06%		-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%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
3/12/2009	11.50%	3.93%		-3.24	2.71%	40.32	7.57%
4/2/2009	11.10%	3.85%		-3.26	2.80%	41.94	7.25%
4/21/2009	10.61%	3.80%		-3.27	2.85%	42.82	6.81%
4/24/2009	10.00%	3.79%		-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	
12/18/2009	10.40%	4.22%	5.98%	-3.16	1.75%	29.00	6.79% 6.18%
12/18/2009	10.40%	4.22%	5.98%	-3.16	1.75%	28.81	
12/22/2009	10.20%	4.23%	5.97%	-3.16	1.74%	28.54	6.18%
12/22/2009	10.40%	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%
12/30/2009	10.00%	4.26%	5.96%	-3.16	1.70%	20.54 27.98	6.17%
1/4/2010	10.80%	4.28%	5.95%	-3.15	1.68%		5.74%
1/11/2010	11.00%	4.30%	5.94%	-3.15	1.64%	27.77 27.16	6.52%
1/26/2010	10.13%	4.35%	5.90%	-3.13	1.55%		6.70%
1/27/2010	10.40%	4.35%	5.90%	-3.13	1.54%	26.14	5.78%
1/27/2010	10.40%	4.35%	5.90%	-3.13	1.54%	26.06	6.05%
1/27/2010	10.70%	4.35%	5.90%	-3.13	1.54%	26.06	6.05%
2/9/2010	9.80%	4.38%	5.87%	-3.13	1.49%	26.06	6.35%
2/18/2010	10.60%	4.40%	5.85%	-3.12		25.50	5.42%
2/24/2010	10.18%	4.41%	5.84%	-3.12	1.45%	25.09	6.20%
3/2/2010	9.63%	4.41%	5.82%	-3.12	1.43%	24.84	5.77%
3/4/2010	10.50%	4.41%	5.82%	-3.12	1.41%	24.58	5.22%
3/5/2010	10.50%	4.41%	5.82%	-3.12	1.41%	24.45	6.09%
3/11/2010	11.90%	4.42%	5.80%	-3.12	1.40%	24.40	6.09%
3/17/2010	10.00%	4.41%	5.79%	-3.12	1.39%	24.14	7.48%
			0.1970	-0.12	1.37%	23.87	5.59%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Data of Electric Data of	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
3/25/2010	10.15%	4.42%		-3.12	1.36%	23.50	5.73%
4/2/2010	10.10%	4.43%		-3.12	1.33%	23.19	5.67%
4/27/2010	10.00%	4.46%		-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%		-3.11	1.27%	22.13	5.85%
5/12/2010	10.30%	4.45%		-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	5.00% 5.70%
6/7/2010	10.30%	4,44%	5.69%	-3.11	1.25%		5.76%
6/16/2010	10.00%	4.44%	5.69%	-3.11	1.20%	23.01	5.86%
6/28/2010	9.67%	4.43%	5.68%	-3.12	1.25%	23.17	5.56%
6/28/2010	10.50%	4.43%	5.68%	-3.12	1.25%	23.20	5.24%
6/30/2010	9.40%	4.43%	5.68%	-3.12	1.25%	23.20	6.07%
7/1/2010	10.25%	4.43%	5.68%	-3.12	1.25%	23.30	4.97%
7/15/2010	10.53%	4.43%	5.67%	-3.12	1.25%	23.35	5.82%
7/15/2010	10.70%	4.43%	5.67%	-3.12	1.24%	23.44	6.10%
7/30/2010	10.70%	4.41%	5.66%		1.24%	23.44	6.27%
8/4/2010	10.50%	4.41%	5.65%	-3.12	1.24%	23.39	6.29%
8/6/2010	9.83%	4.41%		-3.12	1.24%	23.39	6.09%
8/25/2010	9.90%	4.41%	5.65%	-3.12	1.24%	23.40	5.42%
9/3/2010	10.60%	4.37%	5.60%	-3.13	1.23%	23.38	5.53%
9/14/2010	10.80%	4.33%	5.58%	-3.14	1.23%	23.43	6.25%
9/16/2010	10.00%		5.56%	-3.14	1.23%	23.46	6.37%
9/16/2010		4.33%	5.56%	-3.14	1.23%	23.44	5.67%
9/30/2010	10.00%	4.33%	5.56%	-3.14	1.23%	23.44	5.67%
10/14/2010	9.75%	4.29%	5.52%	-3.15	1.23%	23.46	5.46%
	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%	23.00	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%	23.07	5.76%
12/29/2010	11.15%	4.14%	5.37%	-3.18	1.23%	23.04	7.01%
					1.2070	20.04	1.0170

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A	LN(30-Year	Moody's Utility A		
1/5/2011	10.15%	4.13%	Yield	Treasury)	Credit Spread	VIX	Risk Premium
1/12/2011	10.30%			-3.19	1.23%	23.06	6.02%
1/13/2011	10.30%	4.12%	5.36%	-3.19	1.23%	23.04	6.18%
1/18/2011	10.00%	4.12% 4.12%	5.35%	-3.19	1.23%	23.03	6.18%
1/20/2011	9.30%	4.12%	5.35%	-3.19	1.23%	23.02	5.88%
1/20/2011	9.30% 10.13%	4.12%	5.35%	-3.19	1.23%	23.03	5.18%
1/31/2011	9.60%	4.12%	5.35%	-3.19	1.23%	23.03	6.01%
2/3/2011	10.00%	4.12%	5.34%	-3.19	1.22%	23.09	5.48%
2/25/2011	10.00%	4.12%	5.33%	-3.19	1.22%	23.10	5.88%
3/25/2011	9.80%	4.14%	5.34%	-3.18	1.20%	22.61	5.86%
3/30/2011	10.00%		5.35%	-3.18	1.17%	21.32	5.62%
4/12/2011	10.00%	4.18%	5.35%	-3.17	1.16%	21.18	5.82%
4/25/2011		4.21%	5.35%	-3.17	1.14%	20.76	5.79%
4/26/2011	10.74%	4.23%	5.37%	-3.16	1.13%	20.20	6.51%
4/27/2011	9.67%	4.23%	5.37%	-3.16	1.13%	20.15	5.44%
5/4/2011	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%
5/24/2011	10.00%	4.24%	5.37%	-3.16	1.13%	19.87	5.76%
6/8/2011	10.50%	4.27%	5.38%	-3.15	1.11%	19.45	6.23%
6/16/2011	10.75%	4.30%	5.39%	-3.15	1.09%	19.06	6.45%
6/17/2011	9.20%	4.32%	5.40%	-3.14	1.09%	18.86	4.88%
7/13/2011	9.95%	4.32%	5.40%	-3.14	1.09%	18.85	5.63%
8/1/2011	10.20%	4.36%	5.43%	-3.13	1.06%	18.50	5.84%
	9.20%	4.39%	5.44%	-3.13	1.05%	18.46	4.81%
8/8/2011 8/11/2011	10.00%	4.38%	5.43%	-3.13	1.05%	18.77	5.62%
8/12/2011	10.00%	4.38%	5.42%	-3.13	1.05%	19.06	5.62%
8/19/2011	10.35%	4.37%	5.42%	-3.13	1.05%	19.14	5.98%
	10.25%	4.36%	5.41%	-3.13	1.05%	19.52	5.89%
9/2/2011 9/22/2011	12.88%	4.32%	5.37%	-3.14	1.05%	20.30	8.56%
	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 12/20/2011	10.30%	3.80%	4.97%	-3.27	1.17%	25.64	6.50%
	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%

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[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
2/27/2012	10.25%	3.43%		-3.37	1.24%	26.10	6.82%
2/29/2012	10.40%	3.41%		-3.38	1.25%	26.12	6.99%
3/29/2012	10.37%	3.32%		-3.41	1.26%	25.97	7.05%
4/4/2012	10.00%	3.30%		-3.41	1.27%	25.86	6.70%
4/26/2012	10.00%	3.21%		-3.44	1.28%	25.88	6.79%
5/2/2012	10.00%	3.18%		-3.45	1.29%	25.81	6.82%
5/7/2012	9.80%	3.17%		-3.45	1.29%	25.81	6.63%
5/15/2012	10.00%	3.14%		-3.46	1.28%	25.77	6.86%
5/29/2012	10.05%	3.11%		-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%	17.40	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%
					1	17.44	1.4070

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
12/20/2012	10.40%	2.87%		-3.55	1.21%	17.44	7.53%
12/20/2012	10.45%	2.87%		-3.55	1.21%	17.44	7.58%
12/21/2012	10.20%	2.87%	4.09%	-3.55	1.22%	17.44	
12/26/2012	9.80%	2.86%	4.08%	-3.55	1.22%	17.43	7.33%
1/9/2013	9.70%	2.85%		-3.56	1.22%	17.43	6.94%
1/9/2013	9.70%	2.85%		-3.56	1.22%	17.49	6.85%
1/9/2013	9.70%	2.85%		-3.56	1.22%	17.49	6.85%
1/16/2013	9.60%	2.84%	4.05%	-3.56	1.21%	17.49	6.85%
1/16/2013	9.60%	2.84%		-3.56	1.21%	17.44	6.76%
2/13/2013	10.20%	2.84%		-3.56	1.19%	17.44	6.76%
2/22/2013	9.75%	2.85%		-3.56	1.17%	16.90	7.36%
2/27/2013	10.00%	2.86%	4.02%	-3.56	1.17%	16.90	6.90%
3/14/2013	9.30%	2.88%	4.02%	-3.55	1.14%		7.14%
3/27/2013	9.80%	2.90%	4.03%	-3.54	1.14%	16.37	6.42%
5/1/2013	9.84%	2.94%	4.02%	-3.53	1.08%	15.90	6.90%
5/15/2013	10.30%	2.96%	4.03%	-3.52	1.08%	15.26	6.90%
5/30/2013	10.20%	2.98%	4.05%	-3.51	1.07%	15.03	7.34%
5/31/2013	9.00%	2.98%	4.05%	-3.51	1.07%	14.88	7.22%
6/11/2013	10.00%	3.00%	4.06%	-3.51		14.89	6.02%
6/21/2013	9.75%	3.02%	4.08%	-3.50	1.06%	14.96	7.00%
6/25/2013	9.80%	3.03%	4.09%	-3.50	1.06%	15.01	6.73%
7/12/2013	9.36%	3.07%	4.13%	-3.48	1.06%	15.02	6.77%
8/8/2013	9.83%	3.14%	4.20%	-3.46	1.06%	15.06	6.29%
8/14/2013	9.15%	3.16%	4.21%	-3.45	1.05%	14.83	6.69%
9/11/2013	10.20%	3.26%	4.31%	-3.43	1.05%	14.74	5.99%
9/11/2013	10.25%	3.26%	4.31%	-3.42	1.04%	14.57	6.94%
9/24/2013	10.20%	3.31%	4.35%	-3.41	1.04%	14.57	6.99%
10/3/2013	9.65%	3.33%	4.37%	-3.40	1.04%	14.48	6.89%
11/6/2013	10.20%	3.41%	4.44%	-3.38	1.04%	14.46	6.32%
11/21/2013	10.00%	3.44%	4.47%	-3.30 -3.37	1.03%	14.40	6.79%
11/26/2013	10.00%	3.45%	4.48%	-3.37 -3.37	1.03%	14.36	6.56%
12/3/2013	10.25%	3.47%	4.49%	-3.37 -3.36	1.03%	14.35	6.55%
12/4/2013	9.50%	3.47%	4.49%	-3.36	1.02%	14.38	6.78%
12/5/2013	10.20%	3.48%	4.50%	-3.36	1.02%	14.38	6.03%
12/9/2013	8.72%	3.48%	4.51%		1.02%	14.38	6.72%
12/9/2013	9.75%	3.48%	4.51%	-3.36 -3.36	1.02%	14.35	5.24%
12/13/2013	9.75%	3.50%	4.52%		1.02%	14.35	6.27%
12/16/2013	9.95%	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	10.12%	3.50%		-3.35	1.02%	14.35	6.45%
12/17/2013	9.50%	3.51%	4.52% 4.53%	-3.35	1.02%	14.35	6.62%
12/17/2013	10.95%	3.51%	4.53% 4.53%	-3.35	1.02%	14.36	5.99%
12/18/2013	8.72%	3.51%		-3.35	1.02%	14.36	7.44%
12/18/2013	9.80%	3.51%	4.53% 4.53%	-3.35	1.02%	14.37	5.21%
	0.0070	0.0776	4.0070	-3.35	1.02%	14.37	6.29%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A	LN(30-Year	Moody's Utility A		
 12/19/2013	10.15%		Yield	Treasury)	Credit Spread	VIX	Risk Premium
12/30/2013		3.51%	4.53%	-3.35	1.02%	14.37	6.64%
2/20/2014	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%
3/17/2014	9.75%	3.69%	4.65%	-3.30	0.96%	14.64	6.06%
3/26/2014	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%
4/2/2014	9.96%	3.73%	4.68%	-3.29	0.95%	14.67	6.23%
5/16/2014	9.70%	3.73%	4.68%	-3.29	0.95%	14.59	5.97%
	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%	13.55	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	
11/6/2014	10.20%	3.37%	4.29%	-3.39	0.92%	14.11	6.19% 6.83%
11/14/2014	10.20%	3.35%	4.28%	-3.40	0.93%		
11/26/2014	9.70%	3.33%	4.27%	-3.40	0.94%	13.98 13.82	6.85%
11/26/2014	10.20%	3.33%	4.27%	-3.40	0.94%		6.37%
12/4/2014	9.68%	3.31%	4.25%	-3.41	0.94 %	13.82	6.87%
12/10/2014	9.25%	3.29%	4.24%	-3.41		13.79	6.37%
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%	-3.41	0.95%	13.80	5.96%
12/12/2014	10.20%	3.28%	4.23%	-3.42	0.95%	13.83	6.78%
12/17/2014	9.17%	3.27%	4.23%	-3.42	0.95%	13.87	6.92%
12/18/2014	9.83%	3.26%	4.22%		0.96%	13.96	5.90%
1/23/2015	9.50%	3.14%	4.22%	-3.42	0.96%	13.98	6.57%
2/24/2015	9.83%	3.04%		-3.46	0.99%	14.37	6.36%
3/18/2015	9.75%	2.98%	4.06%	-3.49	1.02%	14.67	6.79%
3/25/2015	9.50%		4.02%	-3.51	1.04%	14.88	6.77%
3/26/2015	9.50% 9.72%	2.96%	4.00%	-3.52	1.04%	14.94	6.54%
4/23/2015		2.95%	4.00%	-3.52	1.04%	14.97	6.77%
4/29/2015	10.20%	2.87%	3.94%	-3.55	1.07%	15.19	7.33%
4/29/2015 5/1/2015	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%
5/20/2015	9.75%	2.83%	3.93%	-3.56	1.10%	15.16	6.92%

[5]	[6] Return on	[7] 30 Year	[8]	[ə]	[10]	[11]	[12]
Data of Flacture Data Octo	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread		Risk Premium
6/17/2015	9.00%	2.82%		-3.57	1.13%	15.29	6.18%
6/17/2015	9.00%	2.82%		-3.57	1.13%	15.29	6.18%
9/2/2015	9.50%	2.79%		-3.58	1.21%	15.67	6.71%
9/10/2015	9.30%	2.79%		-3.58	1.22%	15.97	6.51%
10/15/2015	9.00%	2.81%		-3.57	1.24%	16.67	6.19%
11/19/2015	10.00%	2.88%		-3.55	1.27%	16.29	7.12%
11/19/2015	10.30%	2.88%		-3.55	1.27%	16.29	7.42%
12/3/2015	10.00%	2.90%		-3.54	1.28%	16.27	7.10%
12/9/2015	9.14%	2.90%		-3.54	1.29%	16.32	6.24%
12/9/2015	9.14%	2.90%		-3.54	1.29%	16.32	6.24%
12/11/2015	10.30%	2.90%		-3.54	1.29%	16.41	7.40%
12/15/2015	9.60%	2.91%		-3.54	1.30%	16.49	6.69%
12/17/2015	9.70%	2.91%		-3.54	1.30%	16.53	6.79%
12/18/2015	9.50%	2.91%		-3.54	1.30%	16.56	6.59%
12/30/2015	9.50%	2.93%		-3.53	1.30%	16.59	6.57%
1/6/2016	9.50%	2.94%		-3.53	1.31%	16.71	6.56%
2/23/2016	9.75%	2.94%		-3.53	1.38%	18.29	6.81%
3/16/2016	9.85%	2.91%		-3.54	1.40%	18.67	6.94%
4/29/2016	9.80%	2.83%		-3.56	1.42%	18.56	6.97%
6/3/2016	9.75%	2.80%		-3.57	1.40%	18.78	6.95%
6/8/2016	9.48%	2.80%		-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%		-3.58	1.40%	18.34	6.22%
7/18/2016	9.98%	2.71%		-3.61	1.40%	17.47	7.27%
8/9/2016	9.85%	2.66%		-3.63	1.39%	17.06	7.19%
8/18/2016 8/24/2016	9.50%	2.63%		-3.64	1.40%	16.96	6.87%
	9.75%	2.62%	4.01%	-3.64	1.40%	16.91	7.13%
9/1/2016 9/8/2016	9.50%	2.59%		-3.65	1.39%	16.79	6.91%
	10.00%	2.58%		-3.66	1.39%	16.69	7.42%
9/28/2016 9/30/2016	9.58%	2.54%	3.92%	-3.67	1.39%	16.54	7.04%
11/9/2016	9.90%	2.53%		-3.68	1.39%	16.46	7.37%
11/10/2016	9.80%	2.48%		-3.70	1.36%	15.66	7.32%
11/15/2016	9.50%	2.48%	3.84%	-3.70	1.36%	15.62	7.02%
11/13/2016	9.55%	2.49% 2.50%		-3.69	1.36%	15.52	7.06%
.11/29/2016	10.00%			-3.69	1.35%	15.39	7.50%
12/1/2016	10.55% 10.00%	2.51% 2.51%		-3.69	1.34%	14.98	8.04%
				-3.68	1.34%	14.90	7.49%
12/6/2016 12/6/2016	8.64%	2.52%	3.85%	-3.68	1.33%	14.79	6.12%
12/7/2016	8.64%	2.52%	3.85%	-3.68	1.33%	14.79	6.12%
12/12/2016	10.10% 9.60%	2.52% 2.53%	3.85%	-3.68	1.33%	14.74	7.58%
				-3.68	1.33%	14.63	7.07%
12/14/2016 12/19/2016	9.10% 9.00%	2.53% 2.54%		-3.68	1.32%	14.59	6.57%
12/19/2016		2.54% 2.54%		-3.67	1.32%	14.52	6.46%
(2/19/2016	9.37%	∠.34%	3.86%	-3.67	1.32%	14.52	6.83%

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Data of Electric Data Oct.	Equity	Treasury	Moody's Utility A	LN(30-Year	Moody's Utility A		
Date of Electric Rate Case	(%)	(%)	Yield	Treasury)	Credit Spread	VIX	Risk Premium
12/22/2016	9.60%	2.55%		-3.67	1.31%	14.41	7.05%
12/22/2016	9.90%	2.55%		-3.67	1.31%	14.41	7.35%
12/28/2016	9.50%	2.55%		-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%		-3.65	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%	13.75	6.82%
4/4/2017	10.25%	2.71%	3.93%	-3.61	1.23%	13.30	
4/12/2017	9.40%	2.74%	3.94%	-3.60	1.21%		7.54%
4/20/2017	9.50%	2.76%	3.95%	-3.59	1.19%	13.09	6.66%
5/3/2017	9.50%	2.79%	3.98%	-3.58	1.19%	13.06	6.74%
5/11/2017	9.20%	2.81%	4.00%	-3.57	1.18%	12.95	6.71%
5/18/2017	9.50%	2.83%	4.01%	-3.57		12.88	6.39%
5/23/2017	9.70%	2.84%	4.02%	-3.56	1.18%	12.88	6.67%
6/16/2017	9.65%	2.89%	4.05%		1.18%	12.86	6.86%
6/22/2017	9.70%	2.90%		-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%
7/24/2017	9.50%	2.90%	4.06%	-3.54	1.16%	12.65	6.80%
8/15/2017	10.00%	2.95%	4.09%	-3.52	1.15%	12.24	6.55%
9/22/2017	9.60%		4.10%	-3.52	1.13%	11.97	7.03%
9/28/2017	9.80%	2.93%	4.07%	-3.53	1.14%	11.47	6.67%
10/20/2017	9.50%	2.92%	4.07%	-3.53	1.14%	11.43	6.88%
10/26/2017	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%
	10.30%	2.91%	4.03%	-3.54	1.12%	11.22	7.39%
11/6/2017 11/15/2017	10.25%	2.90%	4.03%	-3.54	1.12%	11.15	7.35%
	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%
						10.30	0.0076

[5]	[6] Return on	[7] 30 Year	[8]	[9]	[10]	[11]	[12]
Date of Electric Rate Case	Equity (%)	Treasury (%)	Moody's Utility A Yield	LN(30-Year Treasury)	Moody's Utility A Credit Spread	VIX	Risk Premium
12/29/2017	9.40%	2.85%	3.95%	-3.56	1.11%	10.96	6.55%
					# of	Average: Rate Cases;	

		1				stmont Clauso	ą				Altorn	ativo Regula	tion / Incentive	Plans	
			Fuol/		Copital Invosiment	_								Service	
			Purchased		(Now and					Formula-	Price			Ouality/	
1			Power/Gas	Decoupling		Energy	Renewables &	Environm		Basod	Frooze/	Earnings	Formula-	Performa	Morgor
Сотрапу	Paront	Stato	Commodity	(F/P) [1]		Efficiency [3]	RPS [4]	ontal [5]	Other [6]	Ratos	Cap	Sharing	Based ROE	nco	Savings
ALLETE (Minnesota Power)	ALE	MN			·····										
Superior Water, Light and Power Company	ALE	WL	1												
Interstate Power and Light Company	LNT	IA	1			~	*	1	×,	1	1	,			
Wiscontin Power and Light Company	LNT	WI	1			,	,	,	1	,	×	<i>v</i>	,	,	
Ameren Illinois Company	AEE	IL NO	1			4	~	4	~			*	~	*	
Union Electric Company AEP Toxos Central Company	AEE AEP	MO TX	ŇA	۴	4	×.		¥	,	1					
AEP Texas North Company	AEP	ŤX	NA		~	~		•	~						
Appalachian Power Company	AEP	VA	4		1	1	1	1	1						
Appalachian Power/Wheeling Power	AEP	WV	~		1	~			~	Į					
Indiana Michigan Powor Compony	AEP	IN	1	P	~	1	~	1	1	-					
Indiana Michigan Powor Company	AEP	MI	1	P		×	*	1	×						
Kentucky Power Company	AEP	KY	1	P	~	~		~	1						
Kingsport Power Company	AEP		4	F	,	1				1		1			
Ohio Power Company Public Sorvice Company of Oklahoma	AEP AEP	OH OK	-	P	ž	· ·	¥	1	ž		*	•			
Southwestern Electric Power Company	AEP	AR	1	P				¥.							
Southwastern Electric Power Company	AEP	LA	~	F	•	•		~	2	1	~	1			
Southwostom Electric Power Company	AEP	тх	~		~	~	~		1	I	~				
Black Hills Colorado Electric Utility Company, LP	вкн	co	1		1	1	1		1						
Black Hills Power, Inc.	вкн	SD	1	Р	~	~		~	1	1					
Black Hills Power, Inc.	ВКН	WY	~							{					
Cheyonne Light, Fuel and Power Company	BKH	WY	· ·	Р		· .	-		1						
Consumers Energy Company	CMS	M					<i>.</i>	,	~						
Virginia Electric and Power Company	D	NC			1	*		*	1		1	1	1	7	
Virginia Electric and Power Company	DTE	VA MI			•		•	1			•		•	•	
DTE Electric Company Duke Energy Carolines, LLC	DUK	NC		Р		~	~	~		1	*				
Duke Energy Carolinas, LLC	DUK	SC	1	P		1		1	1	1	1				
Duke Energy Florida, LLC	DUK	FL	~			~		~	~	ł	✓				
Duko Enorgy Indiana, LLC	DUK	IN	~	P	1	~	~	~	×.		1				
Duke Energy Kentucky, Inc.	DUK	KY	1	P		×.	_		1		~				
Duko Energy Ohio, Inc.	DUK	OH	1	P	1	1	1		1	1		~			
Duke Energy Progress, LLC	DUK	NC	1		¥	*		1	1						
Duke Energy Progress, LLC El Paso Electric Company	DUK EE	SC NM	1			· ·	×	*	, ,	1					
El Paso Electric Company	EE	TX			1	~			¥.						
Hawail Electric Light Company, Inc.	HE	Ĥ	-	F		~	~		1	1	~	~			
Hawaiian Electric Company, Inc.	HE	HI	~	F		1	~		1			~			
Maul Electric Company, Limited	HE	HI	1	F		1	*		1			1			
Idaho Power Co.	IDA	D	1	F		×			1			×			
ldaha Powor Co.	IDA.	OR	· ·			· .	~	1	1						
NorthWestern Corporation	NWE	MT				4			1						
NorthWestern Corporation	NWE			Р	1	× .		1	1	1					
Oktahoma Gas and Electric Company Oktahoma Gas and Electric Company	OGE OGE	AR OK		P	*			•	1	{					
Otter Tail Power Company	OTTR			r	~	~	~	1	1						
Otter Tail Power Company	OTTR		1		1		1	1	~						
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Arizona Public Service Company	PNW	AZ	· ·	P		*	~	~	1		~				
Public Service Company of New Moxico	PNM		1			4	1		4						
Texas New Maxico Power	PNM	TX	NA	-	~	1			1						
Portland General Electric Company	POR	OR	1	Р	,	~	×		1						
Alabama Powor Company	SO	AL			1	1		~	1	*					
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Missisalppi Power Company	SO	MS		Р			1	1	2	1			1	1	
Wisconsin Electric Power Company	WEC		· ·	•		~	1		1	1					
Wisconsin Electric Power Company	WEC		×								✓				
Wisconsin Public Service Corporation	WEC	WI	· ·							1					
Northern States Power Company - MN	XEL	MN	~	F	~	~	~	✓	✓	{		_			
Northern States Power Company - MN	XEL	ND	×.		1		4		1	1	×.	~			
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Northorn States Power Company - Wi	XEL	M				~				1					
Northern States Power Company - Wi	XEL XEL	WI CO	1 2	P		~	1	1	~	1	1	1			
Public Service Company of Colorado Southwestern Public Service Company	XEL		~	r	•	~			1	1	~	•			
Southwestern Public Service Company	XEL	TX	1		4	1			1						
ferences and an entropy and and and		,	,												

Summary of Adjustment Clauses & Alternative Regulation/Incentive Plans

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Notes:

Nato: Texas electric T&D-only, and Georgia and Ohio gas utilities do not have provider of last resort obligations, therefore fuel/power/pas cost recovery is not applicable. A mechanism may cover one or more cost calegories; therefore, designations may not indicate separata mechanism for each category.

[1] Full or partial decoupling (auch as Straight-Fixed Variable rate design, wapthor normalization clauses, and recovery of loci revonues as a result of Energy Efficiency programs).

[2] Includes recovery of casts related to targeted new generatian projects, infrastructure replacement, system integrity/hardening, Smart Grid, AMI metering, and other capital exponditures.

[3] Utility-spansored conservation, energy efficiency, load control, or other domand alde management programs. [4] Rocovers costs associated with renewable energy projects, clean energy, Distributed Energy Resources, REC purchases, not meloring, RPS expense, and renewable PPAs.

[5] EPA upgrade costs, emissions centrol & allowance purchase costs, nuclear decommissioning, and other costs to comply with state and federal environmental mandates.

[6] Ponsion expenses, bad debt costs, storm costs, vegetation management, RTO/Transmission Expense, capacity costs, transmission costs, government & franchise fees and taxes, economic development, and lew income programs.

Sources: Company SEC Form 10-Ks; Operating company lariffs; Regulatory Research Associates, Atternative Regulation/incentive Planc: A State-by-State Overview, Nevember 19, 2013; Regulatory Research Associates, Adjustment Glauses: A State-by-State Overview, August 22, 2016.

	Average	Average	Cumulative
	Revenue/Net	Change in Net	Change
Year	Plant	Plant	in Net Plan
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%
3-5 Year Projection	34.85%	22.31%	124.92%

Change in Net Plant and Asset Turnover Broxy Group - Appual Average

		Prox	/ Gr	oup - Individual	Company Result	s	Change in
					Revenue/Net	Change in Net	Revenue/Net
Ticker	Year	Revenue		Net Plant	Plant	Plant	Plant
ALE	2008 9		\$	1,387.30	57.74%		
ALE	2009	759.10		1,622.70	46.78%	16.97%	-18.98%
ALE	2010	907.00	I	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% -12.49%
ALE	2014	1,136.80		3,286.40	34.59% 40.51%	27.55% 11.64%	17.11%
ALE	2015 2016	1,486.40 1,339.70		3,669.10 3,741.20	35.81%	1.97%	-11.61%
ALE ALE	2010	1,655.00		4,000.00	41.38%	6.92%	15.54%
	2020-22			5,353.50	68.77%	0.02.0	1010111
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	ŀ	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% 9.36%	-30.26% -6.69%
LNT	2016 2020-22	3,320.00		9,809.90 11,000.00	33.84% 35.41%	12.13%	4.63%
LNT AEE	2020-22	3,895.00 7,839.00		16,567.00	47.32%	12.1070	4,0070
AEE	2000	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	1	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% 30.26%	-6.87% -11.56%
AEE	2020-22 2008 \$	7,000.00		26,200.00 32,987.00	26.72% 43.77%	30.2076	-11,0075
AEP AEP	2008 3	5 14,440.00 13,489.00		32,987.00	39.28%	4.11%	-10.28%
AEP	2005	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	ł	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% -27.46%
AEP	2020-22	17,000.00		65,300.00	26.03% 49.74%	43.08%	-21.4076
BKH	2008	5 1,005.80 1,269.60		2,022.20 2,160.70	49.74% 58.76%	6.85%	18.14%
вкн вкн	2009 2010	1,307.30		2,495.40	52.39%	15.49%	-10.84%
BKH	2010	1,272.20		2,789.60	45.61%	11.79%	-12.95%
вкн	2012	1,173.90		2,742.70	42.80%	-1.68%	-6.15%
вкн	2013	1,275.90		2,990.30	42.67%	9.03%	-0.31%
вкн	2014	1,393.60)	3,239.40	43.02%	8.33%	0.83%
вкн	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 \$			9,190.00	74.22% 64.09%	5.35%	-13.65%
CMS	2009 2010	6,205.00 6,432.00		9,682.00 10,069.00	63.88%	4.00%	-0.33%
CMS CMS	2010	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 \$			23,274.00	69.99%	~ ~~~	40 0001
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% 11.07%	-3.78% -14.81%
D	2011 2012	14,379.00 13,093.00		29,670.00 30,773.00	48.46% 42.55%	3.72%	-12.21%
D D	2012	13,120.00		32,628.00	40.21%	6.03%	-5.49%
D	2013	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 Not Flant Plant Change in NM Convent/NM Ticker Vear 13,850.00 64,300.00 21,54% 20,24% 16,45% D 2020-22 13,850.00 64,300.00 21,54% 28,024% 16,45% DTE 2009 8,014.00 12,431.00 64,47% 1.64% -4.31% DTE 2011 8,657.00 12,929.20 68,65% 4.51% -1.73% DTE 2011 8,661.00 15,860.00 61,85% 7.64% 2.13% DTE 2016 0,630.00 17,970.00 53,85% 64,43% 2.13% DTE 2016 0,630.00 17,970.00 53,85% 64,43% 2.13% DTE 2016 14,270.00 0,34,050.00 35,35% 11,90% -21,82% DUK 2008 51,327.00 33,405.00 35,55% 11,90% -13,55% DUK 2011 14,229.00 75,750.00 33,65% 60,79% -21,85%				Proxy	Gro	oup - Individual	Company Result	s	Channe in
Ticker Year Rovenue Net Plant Plant Plant Plant Plant D 2020-22 13,850,00 64,300,00 21,54% 28,69% -8,31% DTE 2008 \$9,3200 \$1,2231,00 76,27% 16,45% -16,45% DTE 2010 8,577,00 12,942,00 66,48% 4,61% -17,3% DTE 2011 8,967,00 13,746,00 64,47% 5,60% -1,73% DTE 2012 8,7100 15,800,00 61,15% 7,60% 2,13% DTE 2016 10,337,00 18,034,00 57,32% 7,22% -21,26% DUK 2008 \$1,377,00 9,340,60 33,65% 11,60% -13,5% DUK 2009 12,731,00 0,58,00 03,58% 6,11% -21,78% DUK 2010 14,272,00 04,2661,00 33,69% 11,35% -23,67% DUK 2011 14,529,00 75,709,00 33,69% 1,68%							Rovenue/Met	Change in Net	Change in Revenue/Net
D 2016 11,737,00 44,984,00 24,49% 20,24% -16,45% DTE 2020-22 13,850,00 64,300,00 76,27% 28,89% -8,31% DTE 2009 8,014,00 12,231,00 76,27% 28,89% -16,54% DTE 2010 8,557,00 12,982,00 65,86% 4,61% -1,73% DTE 2011 8,857,00 13,746,00 67,72% 56,82% -7,50% DTE 2013 9,661,00 15,800,00 61,15% 7,00% -21,3% DTE 2014 12,317,00 16,820,00 73,13% 6,46% 19,61% DTE 2015 10,330,00 19,730,00 38,80% 9,40% -6,11% DUK 2009 12,214,00 34,403,00 35,55% 11,40% -13,55% DUK 2010 14,272,00 40,344,00 35,85% 6,31% -43,45% DUK 2011 14,282,00 46,558,00 26,656 03,460% -	Tickor	Year		Revenue		Net Plant		-	
D 2020.22 13,860,00 64,300,00 21,64% 28,69% -8,31% DTE 2008 \$,920,00 \$,12,231,00 64,27% 1,64% -16,46% DTE 2010 8,577,00 1,292,00 66,86% 4,61% 2,17% DTE 2011 8,897,00 13,746,00 64,47% 5,60% -1,73% DTE 2012 8,91100 14,684,00 56,87% 6,62% -7,50% DTE 2014 12,3100 16,820,00 7,13% 6,467% 1,96% DTE 2016 10,337,00 18,700,00 57,03% 33,30% 5,89% DUK 2008 13,207,00 34,066,00 33,58% 6,11% -13,5% DUK 2010 14,272,00 37,785,00 28,62% 60,79% -15,59% DUK 2011 42,240,00 66,563,00 28,62% 60,79% -15,59% DUK 2012 28,260,00 109,010,00 24,43% 3,647% 1,32% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>the second s</td> <td></td>								the second s	
DTE 2008 § 9,329,00 § 12,231,00 76,27% DTE 2010 8,557,00 12,932,00 68,66% 4,51% 2,17% DTE 2011 8,897,00 13,746,00 64,72% 68,6% 4,51% 2,17% DTE 2012 8,791,00 14,684,00 59,87% 68,82% 7,750% DTE 2013 9,661,00 15,800,00 61,15% 7,60% 2,21,32% DTE 2016 10,337,00 18,804,00 57,42% 33,30% 6,801% DTE 2010 14,272,00 40,344,00 38,80% 11,50% 13,35% DUK 2010 14,272,00 40,344,00 38,80% 11,50% 13,37% DUK 2011 14,529,00 73,450,00 35,85% 11,50% 13,37% DUK 2011 21,271,00 34,036,00 36,40% 02,82% 02,74% 3,37% DUK 2010 21,274,00 86,550,00 34,036,0%									-8.31%
DTE 2009 8,014,00 12,431,00 64,47% 1.64% 1-15,47% DTE 2010 8,567,00 12,992,00 65,66% 4.51% 2.17% DTE 2012 8,897,00 13,746,00 64,27% 5.80% 1.73% DTE 2013 9,661,00 15,860,00 61,15% 7.60% 2.13% DTE 2016 10,837,00 18,034,00 57,32% 7.22% 221,62% DTE 2016 10,830,00 19,730,00 38,85% 11,50% -13,55% DUK 2000 12,731,00 34,036,00 36,85% 0.37% 3.33% DUK 2010 14,252,00 40,340,00 35,85% 61,35% -13,55% DUK 2011 14,529,00 75,708,00 35,85% 61,35% -33,73% DUK 2013 24,589,00 75,708,00 36,86% 1,86% 0,36,67% DUK 2014 23,925,00 7,750,00 36,86% 1,28% 0,22% </td <td></td> <td></td> <td>s</td> <td></td> <td>\$</td> <td></td> <td></td> <td></td> <td></td>			s		\$				
DTE 2010 8,557.00 12,992.00 65.86% 4,51% 2.173% DTE 2011 8,897.00 13,746.00 64.72% 5.80% -1.73% DTE 2013 9,661.00 15.800.00 61.15% 7.60% 2.13% DTE 2016 10.837.00 18,804.00 57.32% 7.22% 2.162% DTE 2016 10.630.00 19,730.00 53.86% 9.40% 6.01% DTE 2010 14.272.00 43.408.00 38.65% 11.50% -13.55% DUK 2010 14.272.00 40.344.00 35.58% 6.31% 5.46% DUK 2011 14.528.00 65.56.00 34.60% 1.36% 2.367% DUK 2011 21.219.026.00 75.708.00 3.46% 1.06% -3.51% DUK 2016 2.243.00 65.260.00 27.56% 9.00% -1.15% DUK 2016 2.243.00 65.260.00 47.16% 4.36% -2.26%			•	•			64.47%	1.64%	
DTE 2012 2,701,00 1,664,00 59,87% 6.82% 7.50% DTE 2013 9,661,00 15,800,00 73,13% 6,46% 19,61% DTE 2016 10,537,00 16,820,00 73,13% 6,46% 19,61% DTE 2016 10,500,00 12,731,00 3,4036,00 57,03% 33,30% 5,86% DUK 2009 12,731,00 3,4036,00 36,86% 11,55% 10,357,00 33,56% 11,50% -13,55% DUK 2010 14,722,00 42,661,00 34,06% 5,74% -3,74% -3,75% DUK 2011 14,529,00 70,464,00 34,46% 0,86% 9,28% 0,40,00 34,46% 0,80% -2,28% DUK 2014 23,95,00 70,464,00 34,46% 0,80% 9,28% 0,04% -2,28% DUK 2016 2,743,00 82,520,00 27,56% 9,00% -11,65% DUK 20014 2,395,00 1,7560		2010		8,557.00		12,992.00	65.86%	4.51%	2.17%
DTE 2013 9,661,00 15,800,00 61,15% 7,60% 2.13% DTE 2014 12,301,00 16,820,00 73,13% 64,96% 19,61% DTE 2016 10,650,00 19,730,00 53,88% 94,09% 64,01% DTE 2016 10,650,00 19,730,00 53,88% 94,09% 65,03% DUK 2009 12,731,00 37,360,00 33,63% 63,11% 5,45% DUK 2010 14,272,00 40,344,00 33,63% 63,11% 5,45% DUK 2011 14,272,00 40,246,100 34,64% 0,80% -3,31% DUK 2012 19,624,00 68,558,00 28,62% 60,70% -11,35% DUK 2015 23,925,00 70,046,00 34,16% 0,80% -3,25% DUK 200-22 26,661,00 109,100.00 24,43% 32,21% -11,37% EE 2008 \$1,395,60 65,11% -13,95% 65,23% 0,	DTE	2011		8,897.00		13,746.00	64.72%		
DTE 2014 12,301.00 16,202.00 73,13% 6,46% 19,41% DTE 2015 10,337.00 16,034.00 53,88% 9,40% -6,01% DTE 2016 10,630.00 19,730.00 53,88% 9,40% -6,01% DUK 2008 51,3207.00 34,038.00 38,03% -6,01% DUK 2009 12,731.00 37,950.00 33,55% 11,50% -5,43% DUK 2010 14,272.00 42,661.00 34,06% 5,74% -3,73% DUK 2012 19,624.00 68,558.00 28,62% 60,70% -16,95% DUK 2014 23,459.00 75,090.00 30,99% 8.08% -3,36% DUK 2015 22,443.00 82,520.00 27,56% 9.00% -11,05% DUK 2016 82,743.00 82,520.00 47,15% 10,05% -27,89% EE 2010 87,730 1,865.80 04,715% 10,05% -2,75% <t< td=""><td>DTE</td><td>2012</td><td></td><td>8,791.00</td><td></td><td></td><td></td><td></td><td></td></t<>	DTE	2012		8,791.00					
DTE 2016 10.337.00 18.034.00 57.23% 7.22% 21.42% DTE 2020-22 15.000.00 19.730.00 53.86% 9.40% 60.11% DTE 2020-22 15.000.00 26.300.00 57.03% 33.30% 5.86% DUK 2008 \$1.207.00 \$3.4038.00 38.40% 6.31% 5.45% DUK 2010 14.272.00 40.344.00 35.38% 6.31% 5.45% DUK 2011 14.529.00 70.046.00 34.16% 0.80% 9.23% DUK 2012 23.925.00 70.046.00 34.41% 0.80% 9.23% DUK 2016 22.743.00 82.220.00 27.56% 9.00% -11.05% DUK 2016 22.743.00 82.250.00 70.560.04 7.16% 0.05% -27.8% DUK 2016 82.80.0 1.7560.00 47.16% 0.23% -6.22% 0.28% DUK 2016 849.90 2.465.50 31.43% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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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%				3,716.90		6,464.40			
		2011		3,915.90					
OGE 2013 2,867.70 6,672.80 42.98% -20.04% -2.31%									
	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

			Proxy	Gro	oup - Individual	Company Result	s	
						Revenue/Net	Change in Net	Change in Revenue/Net
Ticker	Year		Revenue		Net Plant	Plant	Plant	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 OTTR	2010 2011		1,119.10 1,077.90		1,108.70 1,077.50	100.94% 100.04%	0.92% -2.81%	6.68% -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 PNW	2011 2012		3,241.40 3,301.80		9,962.30 10,396.00	32.54% 31.76%	4.00% 4.35%	-4.50% -2.39%
PNW	2012		3,454.60		10,330.00	31.73%	4.33%	-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 PNM	2012 2013		1,342.40 1,387.90		3,746.50 3,933.90	35.83% 35.28%	3.29% 5.00%	-23.58% -1.54%
PNM	2013		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 POR	2012 2013		1,805.00 1,810.00		4,392.00 4,880.00	41.10% 37.09%	2.50% 11.11%	-2.87% -9.75%
POR	2013		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 SO	2011 2012		17,657.00 16,537.00		45,010.00 48,390.00	39.23%	7.16%	-5.61%
SO SO	2012		16,537.00		48,390.00	34.17% 33.37%	7.51% 5.82%	-12.88% -2.36%
SO	2013		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% 3.15%
WEC WEC	2013 2014		4,519.00 4,997.10		10,907.00 11,258.00	41.43% 44.39%	3.17% 3.22%	3.15% 7.13%
WEC	2014		4,997.10 5,926.10		19,190.00	44.39% 30.88%	70.46%	-30.43%
WEC	2015		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%

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

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

						Change in
				Revenue/Net	Change in Net	Revenue/Net
Ticker	Year	Revenue	Net Plant	Plant	Plant	Plant
XEL	2012	10,128.00	23,809.00	42.54%	6.51%	-10.76%
XEL	2013	10,915.00	26,122.00	41.78%	9.71%	-1.77%
XEL	2014	11,686.00	28,757.00	40.64%	10.09%	-2.75%
XEL	2015	11,024.00	31,206.00	35.33%	8.52%	-13.07%
XEL	2016	11,107.00	32,842.00	33.82%	5.24%	-4.27%
XEL	2020-22	13,100.00	42,200.00	31.04%	28.49%	-8.21%
Source: V	'alue Line					

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								

ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.220351314	0.220351314	21.97034486	5.32216E-06
Residual	187	1.87551429	0.010029488		
Total	188	2.095865604			
	Coefficients	Standard Error	t Stat	P-value	Lower 95%

	Coencients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-0.02499191	0.009851686	-2.536815411	0.012003668	-0.044426638	-0.005557182
Change in Net Plant	-0.326190413	0.069590948	-4.687253445	5.32216E-06	-0.463474637	-0.188906189

KCP&L Greater Missouri Operations Capitalization June 30, 2018 Projected

(\$ in 000's)

					AFTER-TAX 21.00%
			REQUIRED	WEIGHTED	WEIGHTED
CAPITAL COMPONENT	AMOUNT	PERCENT	RETURN	RETURN	RETURN
GMO Long-Term Debt [1]	\$1,079,114	45.60%	5.06%	2.3064%	1.8221%
GMO Common Equity	1,287,188	54.40%	9.85%	5.3581%	5.3581%
Total GMO Capital	\$2,366,302	100.00%	•	7.6645%	7.1802%

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

KCP&L Greater Missouri Operations Capitalization November 30, 2017 Actual

(\$ in 000's)

CAPITAL COMPONENT	AMOUNT	PERCENT	REQUIRED RETURN	WEIGHTED RETURN	AFTER-TAX 38.40% WEIGHTED RETURN
GMO Long-Term Debt [1]	\$1,080,239	45.72%	5.06%	2.3144%	1.4257%
GMO Common Equity	1,282,451	54.28%	9.50%	5.1576%	5.1576%
Total GMO Capital	\$2,362,690	100.00%	-	7.4720%	6.5833%

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

KOP&L Greater Missouri Operations Weighted Average Cest of Long-Term Debt Capital June 30, 2018 (Projected)

Line	15800	[2] Initial Offoring	[b] Dato of Offering	[c] Date of Maturity	[d] Prico to Public	[o] Coupen	[1] Issuance Expense Amertization	(g) Issuanco Discount Amortization	[h] Not Procoods to Company	[] Long-tarm Dobt Capital Outstanding	[]] Annual Cost of Long-term Debt Capital
1	Pledged General Mortgage Bonds	\$3,375,000	2/1/1991	2/1/2021	\$3,375,000	9.44%	\$3,903		\$3,371,097	\$3,375,000	\$322,503
,	Unsecured Notes	0,010,000									
2	Senier Notes Due 2021 - 8.27% Couper	\$80,850,000	3/31/1999	11/15/2021	\$80,850,000	8,27%	\$97,798		\$80,752,202	\$80,850,000	\$6,784,093
3	Modlum Term Notes Due 2023 - 7.33% Coupon	\$3,000,000	11/30/1993	11/30/2023	\$3,000,000	7.33%	\$1,129		\$2,998,871	\$3,000,000	\$221,029
4	Medium Term Notes Due 2023 - 7.17% Coupon	\$7,000,000	12/6/1993	12/1/2023	\$7,000,000	7.17%	\$2,636		\$6,997,364	\$7,000,000	\$504,536
5	Senior Notes Series A Due 2025 - 3.49% Coupon	\$125,000,000	8/16/2013	5/15/2025	\$125,000,000	3.49%	\$65,148		\$124,934,852	\$125,000,000	\$4,427,648
6	Senior Notes Series B Due 2033 - 4.06% Coupon	\$75,000,000	8/16/2013	8/15/2033	\$75,000,000	4.06%	\$23,346		\$74,976,654	\$75,000,000	\$3,058,346
7	Senior Notes Series C Due 2043 - 4.74% Coupon	\$150,000,000	41502	52458	\$150,000,000	4.74%	\$31,293		\$149,968,707	15000000	\$7,141,293
	Other Long-Term Debt										
8	Intercompany Debt - GPE Senior Notes due 2021	\$347,389,000	5/16/2011	6/1/2021	\$347,389,000	4.97%			\$347,389,000	\$347,389,000	\$17,265,233
9	Intercompany Dobt - GPE Senior Notes due 2022	\$287,500,000	6/15/2012	6/15/2022	\$287,500,000	5.15%			\$287,500,000	\$287,500,000	\$14,806,250
10	Loss/(Gain) on Reacquired Dobt										\$36,121
11											
12	Total KCP&L Long-Term Debt Capital			L	une 30, 2018 (Projoc	tod)				\$1,079,114,000	\$54,577,052
13	GMO Weighted Avg. Cost of Long-Term Debt Capital			ſ	une 30, 2018 (Projec	tod)				5.06%	

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Cost of Long-Term Debt Comparison

						Bloomberg Fair Value Curve			
		Initial	Date of	Date of	Years to		BFV		
Line	Issue	Offering	Offering	Maturity	Maturity	Coupon _	Term	A-Rated	BBB-Rated
	Pledged General Mortgage Bonds		<u> </u>						
1	SJLP First Mortgage Bonds - 9.44%	\$3,375,000	2/1/1991	2/1/2021	30	2.95%	30	N/A	[1] N/A
	Unsecured Notes								
2	Senior Notes Due 2021 - 8.27% Coupon	\$80,850,000	3/31/1999	11/15/2021	22	4.20%	20	6,66%	6.98%
3	Medium Term Notes Due 2023 - 7.33% Coupon	\$3,000,000	11/30/1993	11/30/2023	30	6.05%	30	6.94%	7.37%
4	Medium Term Notes Due 2023 - 7.17% Coupon	\$7,000,000	12/6/1993	12/1/2023	30	5.30%	30	6.80%	7.23%
5	Senior Notes Series A Due 2025 - 3.49% Coupon	\$125,000,000	8/16/2013	5/15/2025	12	3.15%	10	3.77%	4.36%
6	Senior Notes Series B Due 2033 - 4.06% Coupon	\$75,000,000	8/16/2013	8/15/2033	20	3.65%	20	4.86%	5.49%
7	Senior Notes Series C Due 2043 - 4.74% Coupon	\$150,000,000	8/16/2013	8/15/2043	30	4.94%	30	4,72%	5.20%
	Other Long-Term Debt								
8	Intercompany Debt - GPE Senior Notes due 2021	\$347,389,000	5/16/2011	6/1/2021	10	2.70%	10	4.26%	4.49%
9	Intercompany Debt - GPE Senior Notes due 2022	\$287,500,000	6/15/2012	6/15/2022	10	2.70%	10	2.89%	3.66%
	Issue	Offerings				Coupon		A-Rated	BBB-Rated
TOTAL		\$1,079,114,000		W	eighted Average	3.27%		4.13%	4.62%

Sources: Schedule RBH-10 and Bloomberg Professional

[1] Bloomberg Fair Value Curve data unavailable for Date of Offering 2/1/1991.

Proxy Group Capital Structure

40,60% 50,87% 40,42% 40,42% 40,42% 40,15% 40,15% 40,10% 41,10% 51,11% 51,11% 51,11% 51,11% 46.37% 50.34% 50.34% 50.34% 50.65% 50.65% 50.78% 50 201602 40.92% 47.81% 201400 40.72% 40.72% 45.62% 45.52%45.52% 45.52% 45.52% 45.52% 45.52%45.52% 45.52% 45.52% 45.52% 45.52%45% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52% 45.52%45% 45.52% 45.52% 45.52% 45.52% 45.52%45% 45.52% 45.52% 45.52% 45.52%45% 45.52% 201603 201604 40.98% 40.98% 40.98% 40.98% 40.10% 40.10% 40.10% 40.10% 40.10% 41.05% 41.05% 43.01% 43.41% 43.41% Operating Company Capital Structure Proxy Group Copital Structure 201701 36.72% 36.73% 56.23% 56.23% 56.23% 56.23% 55.25% 52.25% 52.25% 52.25% 52.25% 52.25% 52.25% 52.25% 52.25% 52.25% 53.25% 53.25% 54.75% 54.75% 55.25% 55 201702 36338% 36338% 46.19% 46.19% 46.19% 46.39% 46.33% 46.33% 46.33% 46.33% 46.33% 44.40% 52.91% 44.40% 201703 3837% 3837% 45.85% 45.85% 46.25% 46.25% 48.25% 47.2 Amenic.comp.comp.com.com. American Screenialize CAS Fill Corporation CAS Fill Corporation CAS Fill Corporation CAS Fill Corporation rgy Corporation Operating Compray Compony ALLETE, In Allant Enor Avening 502% 512% 512% 5125% 5124% 5124% 5124% 5124% 5124% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 5217% 201504 Ave 201504 Ave 55.86% 57, 60.23% 61, 48.44% 51, 51.56% 51, 201504 50,00% 51,00% 52,51% 55,00% 55,04% 55,50,46% 55,50% 55,10% 55,14% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 55,10% 56,10% 54.43% 50.41% 52.57% 51.25% 51.25% 51.25% 50.53% 50.53% 50.51% 55.54\%55.54% 55.54% 55.54\%55.54\%55.54% 55.54\%55.54\%55.54% 55.54\%55.55\%55.55\%55.55\%55.55\%55.55\%55.55\%55.55\%55.55\%55.55\%55.55\% 5 201802 26,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,02% 25,05% 25,05% 25,12% 26,02% 26,02% 27,25% 27 2018004 380.02% 380.02% 48.00% 59.10% 51.07% 51.07% 55.15% **Operating Company Capital Structure** 201701 0.20% 4.0.71% 5.0.20% 5.1.20% 5.1.20% 5.1.20% 5.1.20% 5.2.21% 5 201702 56.16% 48.76% 51.56% 51.14% NA NA 201702 85.01702 55.01708 55.017% 55.05 201703 91.03% 55.03% 55.103% 55.13% 50.84% 50.84% 50.84% 50.84% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% 55.05% VerifyVestim Corporation VerifyVestim Corporation VerifyVestim Corporation 2016 Tea Corporation 2016 Tea Corporation 2014 Resources, Inc. 2014 Corporation Corporation 2014 Corporation 2014 Corporation 2015 Corp American Electric Pervest Company Black Hills Corporation CMS Enroy Corporation CMS Enroy Corporation TE Enrols Corporation Electric Corporation El Pausa Electric Corporation El Pausa Electric Corporation Constantion Electric Corporation (CCORF), Inc. Wart Energy Corporation Denating Company ALLETE (Minnesota

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Source: S&P Global Market Intelligenc