Exhibit No.:

Issue: Witness:

Case No.:

Type of Exhibit: Sponsoring Party:

Michael P. Gorman Rebuttal Testimony Midwest Energy Consumers' Group

Revenue Requirement

Jonsoning Fairy.

ER-2016-0285

Date Testimony Prepared:

December 30, 2016

## BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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

Case No. ER-2016-0285

Rebuttal Testimony and Schedules of

FEB 1 6 2017

Michael P. Gorman

Missouri Public Service Commissior

On behalf of

Midwest Energy Consumers' Group

December 30, 2016



Brubaker & Associates, Inc.

Project 10290

MECG Exhibit No. 651

Date 2:7:17 Reporter mo
File No. EK-2016:0285

### BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service			) ) ) Case No )	. ER-2016-0285
STATE OF MISSOURI	) ) )	SS		

#### Affidavit of Michael P. Gorman

Michael P. Gorman, being first duly sworn, on his oath states:

- 1. My name is Michael P. Gorman. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by the Midwest Energy Consumers' Group this proceeding on its behalf.
- 2. Attached hereto and made a part hereof for all purposes are my rebuttal testimony and schedules which were prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2016-0285.
- 3. I hereby swear and affirm that the testimony and schedules are true and correct and that they show the matters and things that they purport to show.

Michael P. Gorman

Subscribed and sworn to before me this 30th day of December, 2016.

TAMMY S. KLOSSNER
Notary Public - Notary Seal
STATE OF MISSOURI
St. Charles County
My Commission Expires: Mar. 18, 2019
Commission # 15024862

Notary Public

## BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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

Case No. ER-2016-0285

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#### BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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

Case No. ER-2016-0285

#### Rebuttal Testimony of Michael P. Gorman

1	Q	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	Α	Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
3		Chesterfield, MO 63017.
4	Q	ARE YOU THE SAME MICHAEL P. GORMAN WHO PREVIOUSLY FILED
5		TESTIMONY IN THIS CASE?
6	Α	Yes. On November 30, 2016, I filed revenue requirement direct testimony on behalf
7		of the Midwest Energy Consumers' Group ("MECG") regarding Kansas City Power &
8		Light Company's ("KCPL" or "Company") rate increase request.
9	Q	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
10	Α	I will respond to KCPL witness Mr. Robert Hevert's recommended return on equity
11		range of 9.75% to 10.50% <sup>1</sup> and KCPL's requested return on equity of 9.90%. <sup>2</sup> I will
12		also update the return on equity study I developed in my direct testimony following
13		the same methodology but relying on updated inputs.

<sup>&</sup>lt;sup>1</sup>Hevert Direct Testimony at 3.

<sup>&</sup>lt;sup>2</sup>Bryant Direct Testimony at 3.

1		My silence in regards to any issue should not be construed as an
2		endorsement of KCPL's position.
3	Q	PLEASE SUMMARIZE YOUR RECOMMENDATIONS AND FINDINGS IN YOUR
4		REBUTTAL TESTIMONY.
5	Α	I respond to the return on equity recommendations of KCPL witness Robert Hevert.
6		The Company's recommended return on equity of 9.9% is overstated and
7		unreasonable. As outlined later in this testimony, corrections to Mr. Hevert's studies
8		or use of more balanced market-based information supports a return on equity for
9		KCPL in the range of 9.0% to 9.5%.
10		I also updated my analysis from my direct testimony. In my direct testimony,
11		based upon data through October 28, 2016, I recommended a return on equity for
12		KCPL in the range of 8.80% to 9.20%. Based on my updated study offered in this
13		rebuttal testimony which relies upon data through December 16, 2016, I now update
14		my recommended return on equity for KCPL to fall within the range of 8.9% to 9.5%,
15		with a point estimate of 9.20%.

#### I. RESPONSE TO KCPL WITNESS MR. ROBERT B. HEVERT

#### I.A. Summary of Rebuttal

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- 18 Q WHAT RETURN ON COMMON EQUITY IS KCPL PROPOSING FOR THIS
  19 PROCEEDING?
- 20 A The Company has requested a return on equity of 9.90% based on the recommended 21 range of 9.75% to 10.50% sponsored by its witness, Mr. Robert Hevert.<sup>3</sup> Mr. Hevert 22 concludes that his recommended return on equity range is reasonable, but

<sup>&</sup>lt;sup>3</sup>Hevert Direct Testimony at 3, and Kevin Bryant Direct Testimony at 3.

1		conservative. His recommended return on equity is based on. (1) a constant growth
2		Discounted Cash Flow ("DCF") analysis, (2) a multi-stage growth DCF analysis,
3		(3) Capital Asset Pricing Model ("CAPM") studies, and (4) a Bond Yield Plus Risk
4		Premium methodology.
5	Q	ARE MR. HEVERT'S RETURN ON EQUITY ESTIMATES REASONABLE?
6	Α	No. Mr. Hevert's estimated return on equity is overstated and should be rejected.
7		Mr. Hevert's analyses produce excessive results for various reasons, including the
8		following:
9		1. His constant growth DCF results are based on unsustainably high growth rates;
10		2. his multi-stage growth DCF is based on:
11 12		<ul> <li>an unrealistic long-term Gross Domestic Product ("GDP") growth estimate that is not aligned with market participants' outlooks,</li> </ul>
13		b. a manipulated dividend payout ratio adjustment, and
14 15		<ul> <li>c. a terminal stock price that is produced by an unjustified price-to-earnings ("P/E") ratio assumption;</li> </ul>
16		3. his CAPM is based on inflated market risk premiums; and
17 18		<ol> <li>his Bond Yield Plus Risk Premium studies are based on inflated utility equity risk premiums.</li> </ol>
19	Q	PLEASE SUMMARIZE MR. HEVERT'S RETURN ON EQUITY ESTIMATES.
20	Α	Mr. Hevert's return on equity estimates are summarized in Table 1 below. In
21		Column 2, I show the results with prudent and sound adjustments to correct the
22		shortfalls referenced above. With such adjustments to his proxy group's DCF,
23		CAPM, and Risk Premium return estimates, Mr. Hevert's own studies show my 9.20%
24		recommended return on equity for KCPL is reasonable.

<sup>&</sup>lt;sup>4</sup>Hevert Direct Testimony at 3.

TABLE 1		
<u>Hevert's Return on Equit</u>	y Estimates	
<u>Description</u>	Mean <sup>1</sup>	Adjusted <sup>2</sup>
Constant Growth DCF:	(1)	(2)
30-Day Average	8.76%	8.76%
90-Day Average	8.82%	8.82%
180-Day Average	9.00%	9.00%
Average Constant Growth DCF	8.86%	8.86%
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Multi-Stage Growth DCF:	2 45 42	42 d 4
30-Day Average	9.45%	8.10%
90-Day Average	9.60%	8.17%
180-Day Average	<u>10.08%</u>	<u>8.37%</u>
Average Multi-Stage Growth DCF	9.71%	8.21%
DCF Range	8.9% to 9.7%	8.2% to 8.9%
CAPM Results (Bloomberg Beta)		
Current 30-Yr Treasury (BL - 2.65%)	9.11%	7.45%
Current 30-Yr Treasury (VL - 2.65%)	9.49%	7.45%
Near-Term Projected 30-Yr Treasury (BL - 3.08%)	9.55%	7.89%
Near-Term Projected 30-Yr Treasury (VL – 3.08%)	9.92%	7.89%
CAPM Results (Value Line Beta)		
Current 30-Yr Treasury (BL – 2.65%)	10.72%	8.64%
Current 30-Yr Treasury ( <i>VL</i> – 2.65%)	11.18%	8.64%
Near-Term Projected 30-Yr Treasury (BL – 3.08%)	11.15%	9.08%
Near-Term Projected 30-Yr Treasury (VL = 3.08%)	11.62%	9.08%
Treal-Territ Tojected 30-11 Treasury (VL = 3.0070)	11.0270	0.0070
Risk Premium		
Current 30-Yr Treasury (2.65%)	10.04%	8.75%
Near-Term Projected 30-Yr Treasury (3.08%)	10.05%	9.18%
Long-Term Projected 30-Yr Treasury (4.45%)	10.39%	Reject
Alternative Risk Premium		
Current 30-Yr Treasury (2.65%)	9.74%	9.75%
Near-Term Projected 30-Yr Treasury (3.08%)	9.75%	9.75%
Long-Term Projected 30-Yr Treasury (4.45%)	10.04%	9.75%
Range	9.75% to 10.50%	8.2% to 9.75%
Sources: <sup>1</sup> Hevert Direct Testimony at 22, 32, 38, 41 and 42. <sup>2</sup> Schedule MPG-R-1 and Schedule MPG-R-2.		

#### I.B. Hevert DCF

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#### 2 I.B.1. Hevert Constant Growth DCF

- Q PLEASE DESCRIBE MR. HEVERT'S CONSTANT GROWTH DCF RETURN
   4 ESTIMATES.
- His constant growth DCF returns are developed in Schedule RBH-1. Mr. Hevert's constant growth DCF models are based on consensus growth rates published by Zacks and First Call and individual growth rate projections made by *Value Line*.

He relied on dividend yield calculations based on average stock prices over three different periods: 30-day, 90-day, and 180-day – all reflecting one-half year dividend growth adjustments.

#### 11 Q ARE THE DCF RESULTS PRODUCED BY MR. HEVERT REASONABLE?

Mr. Hevert's constant growth DCF studies generally support a return on equity in the range of 8.75% to 9.0%, which is similar to the results of my constant growth DCF study that was presented in my direct testimony.

Similar to my constant growth DCF result, Mr. Hevert's constant growth DCF return estimates are reasonable high-end estimates because they are based on a proxy group average growth rate of 5.29% (Schedule RBH-1, pages 1-3). This growth rate is a very optimistic future growth in comparison to my updated long-term GDP growth of 4.25%. As such, his constant growth DCF return estimates should be considered as a high-end estimate of the current market cost of equity.

#### I.B.2. Hevert Multi-Stage Growth DCF

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#### Q DID MR. HEVERT PERFORM A MULTI-STAGE GROWTH DCF ANALYSIS?

Yes, he did. Mr. Hevert's multi-stage growth DCF analysis is impacted by various assumptions Mr. Hevert has modeled in his DCF study, all of which produce a DCF return estimate that is simply inflated. As a comparison, Mr. Hevert's long-term steady-state growth rate used in his multi-stage growth DCF analysis was 5.28%. (Schedule RBH-2, pages 1, 3 and 4 under Column 6). This long-term growth rate is nearly identical to the average growth rate used in his constant growth DCF study of 5.29% as reflected in his Schedule RBH-1 under Column 8. While using a virtually identical growth rate, the results of his multi-stage growth DCF analysis were considerably higher than his constant growth DCF study. This inflation to the multistage growth DCF results largely reflects assumptions and inputs made by Mr. Hevert to manipulate dividend payout ratios and hence cash flow projections during the transitional stage of his model, and to use an artificial P/E ratio estimate to produce an inflated terminal value stock price in the steady-state growth rate period. The manipulative effect of these multi-growth study assumptions is clearly illustrated by a comparison of his constant growth and multi-stage growth DCF study results. The long-term steady-state growth rate used in the multi-stage growth DCF study is reasonably comparable to the average growth rate used in a constant growth DCF analysis. Therefore, one would reasonably expect the two DCF studies to produce reasonably comparable results. However, Mr. Hevert's multi-stage growth DCF study results are 75 to 100 basis points higher than his constant growth DCF results. Again, this is a suspicious result since the growth rates and dividend yields are nearly identical between the two studies.

Aside from this obvious concern with the irrational results of Mr. Hevert's
multi-stage growth DCF study, I believe his multi-stage growth DCF model is also
unreliable because he relied on a long-term GDP growth rate that does not reflect
consensus market participant outlooks for future GDP growth. Further, his dividend
payout ratio assumption is flawed and simply inflates dividend payments and DCF
return estimates. Finally, his terminal value P/E ratio is arbitrarily based on the
market P/E and/or a flawed assumption that the proxy group P/E ratio will not change
as the growth rate outlook declines from the accelerated growth period to the lower
sustainable growth period. Further, the terminal P/E ratio assumption is not related to
his long-term growth rate assumption. The arbitrary terminal value P/E ratio input has
the effect of further inflating Mr. Hevert's multi-stage growth DCF return estimate.

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#### HOW DID MR. HEVERT CALCULATE A LONG-TERM GROWTH RATE?

Mr. Hevert relied on the long-term historical real GDP growth of 3.24%, as measured over the period 1929 through 2015, and a forward inflation rate outlook of 1.98%. Mr. Hevert's inflation rate outlook is based on two projections. First, he derived an inflation rate outlook of 1.76% based on the average of the 180-day average spread between the yields on long-term nominal Treasuries and long-term Treasury Inflation-Protected Securities ("TIPS"). Second, he used the Consumer Price Index ("CPI") projection for 2022-2026 of 2.20% from *Blue Chip Financial Forecasts*. The midpoint inflation rate outlook is 1.98% (1.76% to 2.20%).

Using an inflation factor of 1.98% and an historical real GDP growth of 3.24%, Mr. Hevert produced a nominal GDP growth rate outlook of 5.28%.<sup>5</sup>

<sup>&</sup>lt;sup>5</sup>[1.0324 x 1.0198 – 1], Hevert Direct Testimony at 28.

1	Q	IS MR. HEVERT'S LONG-TERM GROWTH RATE ESTIMATE OF 5.28
2		REASONABLE?
3	Α	No. The methodology used by Mr. Hevert to calculate this growth rate simply is n

Α

No. The methodology used by Mr. Hevert to calculate this growth rate simply is not based on market participants' outlooks for future growth opportunities of the proxy companies specifically, or even general industry growth. Therefore, Mr. Hevert's GDP growth rate projection simply is not comparable to independent consensus analysts' projections of future GDP growth and, therefore, does not reasonably reflect investors' outlook used to make investment decisions.

# Q WHY DO MR. HEVERT'S GDP GROWTH PROJECTIONS NOT ALIGN WITH INDEPENDENT MARKET PARTICIPANTS' GDP GROWTH PROJECTIONS?

Mr. Hevert's growth rate of 5.28% is based on an <u>historical</u> real GDP growth rate of 3.24% and projected inflation. This historical real GDP growth rate is considerably higher than the real GDP growth projection of 2.2% provided by consensus economists and published in the *Blue Chip Financial Forecasts*.

In order to measure the current market cost of equity demanded by investors in today's marketplace, it is necessary to reasonably capture the outlooks by investors that have formed evaluations of observable stock prices used in the various time periods underlying Mr. Hevert's and my DCF studies. In this regard, historical GDP growth rates dated back to 1929 do not reflect the outlooks of current market participants. Mr. Hevert's long-term growth rate simply ignores current consensus independent market participants' outlooks for future growth, and therefore he is not reasonably nor accurately reflecting the data likely relied upon by current market participants to value utility stocks.

1 A comparison of Mr. Hevert's GDP growth rate and consensus economists' 2 projected growth over the next 5 and 10 years is shown in Table 2 below. As shown in this table, Mr. Hevert's GDP rate of 5.28% reflects real GDP of 3.24% and an 3 inflation adjusted GDP of 1.98%. However, consensus economists' projections of 4 nominal GDP over the next 5 and 10 years are 4.14% to 4.35%, with a midpoint of

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6 4.25%.

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As is clearly evident in Table 2, Mr. Hevert's historical GDP growth is much higher than, and not representative of, consensus market expected forward-looking GDP growth.

TABLI	E 2		
GDP Proje	ections		
Description	GDP Inflation	Real GDP	Nominal GDP
Mr. Hevert <sup>1</sup>	2.0%	3.2%	5.28%
Consensus Economists (5-Year) <sup>2</sup> Consensus Economists (10-Year) <sup>2</sup>	2.1% 2.0%	2.2% 2.1%	4.35% 4.14%
Sources: <sup>1</sup> Hevert Direct Testimony at 28-29. <sup>2</sup> Blue Chip Financial Forecasts, December	ber 1, 2016 a	at 14.	

1	Q	PLEASE EXPL	AIN HOW M	R. HEVE	ERT'S MU	ILTI-STAGE	GRO	WTH	DCF	MODEL
2		OVERSTATED	DIVIDEND	CASH	FLOWS	BECAUSE	OF	HIS	LONG	-TERM
3		DIVIDEND PAY	OUT RATIO	ASSUM	PTION.					

A Mr. Hevert modified analysts' current dividend payout projections of 63.00% for his proxy group and assumed that eventually they would converge to the historical industry average dividend payout ratio of 66.88%.<sup>6</sup>

# IS MR. HEVERT'S ASSUMPTION THAT THE PROXY GROUP'S PAYOUT RATIO WILL INCREASE TOWARD THE INDUSTRY HISTORIC DIVIDEND PAYOUT RATIO REASONABLE?

No. The proxy group's current dividend payout ratio is reasonably consistent with the projection for the industry average payout ratio expected over time. As such, there is no basis to assume that every utility in the industry will converge upon the same payout ratio. Rather, it is more balanced and logical to assume that payout ratios should be reasonably consistent with the target industry payout ratio over time, and it is important to recognize that the proxy group is already at that target. Because the proxy group is reasonably aligned with outlooks for the industry as a whole going forward, there is simply no logical basis to assume the payout ratio will increase as Mr. Hevert assumed. Further, this assumption has a significant impact on the cash flows underlying Mr. Hevert's projection. Therefore, this unsupported payout ratio model adjustment caused an unjustified increase to the multi-stage growth DCF result.

Q

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<sup>&</sup>lt;sup>6</sup>Hevert Direct Testimony at 32.

1	Q	PLEASE EXPLAIN WHY MR. HEVERT'S ASSUMPTION FOR AN INCREASED
2		PAYOUT RATIO FOR HIS PROXY GROUP, BASED ON INDUSTRY AVERAGES
3		INCREASES HIS MULTI-STAGE GROWTH DCF ESTIMATE.
4	Α	By assuming an increased payout ratio, Mr. Hevert is assuming that dividend growth
5		will exceed earnings growth during the intermediate stage growth period. This
6		elevated growth projection for dividends increases the cash flows in the DCF study
7		which artificially increases the DCF return estimate. Because this estimate is no
8		based on any market participant's outlook for the proxy group generally, and since
9		Mr. Hevert has not provided any information that the proxy group is not reasonably
10		consistent with the range of expected payout ratios for the electric utility industry as a
11		whole, this assumption simply is unreliable and inflates the DCF return estimate.
12	Q	PLEASE DESCRIBE MR. HEVERT'S ASSUMPTION IN DERIVING THE TERMINAL
13		GROWTH VALUE FOR THE COMPANIES IN HIS MULTI-STAGE GROWTH DCF
14		ANALYSIS.
15	Α	Mr. Hevert states that he relied on a terminal value based on the current P/E ratio of
16		the companies in his proxy group (Direct at 32-33) and that the projected proxy group
17		P/E ratio will approximate that of the overall market. (Page 32).
18	Q	IS THIS CONSTANT P/E RATIO ASSUMPTION REASONABLE WITHIN HIS
19		MULTI-STAGE GROWTH DCF STUDY?
20	Α	No. The P/E ratio will change as the growth outlooks for each of the proxy group
21		companies changes. Reflecting the current capital investment period occurring within
22		the industry, the current P/E ratio reflects an outlook for an accelerated growth rate
23		period. This accelerated growth period is then followed by a contraction to a lower

sustainable long-term growth rate. Under Mr. Hevert's assumption, however, there
will be no contraction. Instead, the current P/E ratio will remain in effect during the
terminal growth stage. That is an unreasonable assumption because after the current
accelerated growth period ends, and growth declines to a lower sustainable level, it is
reasonable to expect that the P/E ratio would also respond to those lower growth
outlooks and decline. By overstating the terminal value price, based on a P/E ratio
that does not reflect the decline in growth, Mr. Hevert is overstating the cash flows in
his DCF study and overstating the multi-stage growth DCF return estimate.

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## Q HOW CAN MR. HEVERT'S MODEL BE CORRECTED TO ELIMINATE HIS UNREASONABLE ASSUMPTIONS?

By adjusting the GDP growth outlook for long-term sustainable growth, down to the consensus economists' outlooks for future nominal GDP growth of 4.25% (rather than Mr. Hevert's estimate of 5.28% which does not reflect independent market participants' growth outlooks, and reflecting long-term dividend growth in a multistage DCF model without the erroneous terminal value price estimate performed by Mr. Hevert's multi-stage growth DCF model would produce a return more reflective of current market participant investment outlooks.

Revising Mr. Hevert's multi-stage growth to correct all three of the identified flaws produces the multi-stage growth DCF return estimates shown in Table 3 below.

TABLE 3  Hevert Multi-Stage Growth DCF Analysis									
Description	Mean¹ (1)	Adjusted <sup>2</sup> (2)							
30-Day Average 90-Day Average 180-Day Average Average	9.45% 9.60% <u>10.08%</u> 9.71%	8.10% 8.17% <u>8.37%</u> 8.21%							
Sources: <sup>1</sup> Hevert Direct Testimony at 32. <sup>2</sup> Schedule MPG-R-1.									

#### I.C. Mr. Hevert's CAPM

2	Q	PLEASE DESCRIBE THE ISSUES YOU TAKE WITH MR. HEVERT'S CAPM
3		ANALYSIS.
4	Α	As indicated in my direct testimony, the CAPM analysis is based upon the theory that
5		the market required rate of return for a security is equal to the risk-free rate, plus a
6		risk premium associated with the specific security. The risk premium associated with
7		the specific security is expressed mathematically as:
8		B <sub>i</sub> x (R <sub>m</sub> - R <sub>f</sub> ) where:
9 10 11		$B_i$ = Beta - Measure of the risk for stock $R_m$ = Expected return for the market portfolio $R_f$ = Risk-free rate
12		My major concern with Mr. Hevert's CAPM analysis is his use of an inflated market
13		return or the R <sub>m</sub> factor in the equation above.

Q PLEASE DESCRIBE MR.	HEVERT'S !	MARKET	RISK PREMIUMS
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A Mr. Hevert derived his market risk premiums by conducting a DCF analysis for the market. Mr. Hevert used two market risk premium estimates. They are DCF-derived market risk premiums of 10.50% (using a Bloomberg beta coefficient) and 11.10% (using a *Value Line* beta coefficient), which are based on market DCF returns of 13.14% and 13.75%, respectively, less the current 30-year Treasury bond yield of 2.65%.<sup>7</sup>

## WHAT ISSUES DO YOU HAVE WITH MR. HEVERT'S DCF-DERIVED MARKET

**RISK PREMIUM ESTIMATES?** 

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Mr. Hevert's DCF-derived market risk premiums are based on market returns of approximately 13.14% and 13.75%, which consist of growth rate components of approximately 11.08% and 11.71% and a market weighted expected dividend yield of approximately 2.06% and 2.04%, respectively. As discussed in greater detail in my direct testimony, the DCF model requires a long-term sustainable growth rate. Mr. Hevert's sustainable market growth rates of approximately 11.08% and 11.71% are far too high to be a rational outlook for sustainable long-term market growth. These growth rates are more than two times the growth rate of the U.S. GDP long-term growth outlook of 4.25%.

As a result of this unreasonable long-term market growth rate estimate, Mr. Hevert's market DCF returns used within his CAPM analysis are inflated and not reliable. Consequently, Mr. Hevert's 10.50% (Bloomberg) and 11.10% (Value Line) market risk premiums should be given minimal weight in estimating the Company's required CAPM based cost of common equity.

<sup>&</sup>lt;sup>7</sup>Hevert Direct Testimony at 35 and Schedule RBH-3.

<sup>\*</sup>Schedule RBH-3. (13.14% = 11.08% + 2.06% and 13.75% = 11.71% + 2.04%)

1	Q	DO	HISTORICAL	ACTUAL	RETURNS	ON	THE	MARKET	SUPPORT
2		MR.	HEVERT'S PRO	ı					

A No. This is significant because Mr. Hevert does rely on historical market returns to produce real returns on the market for use in developing his GDP growth forecast in his DCF study. Using the same line of logic, historical data shows just how unreasonable Mr. Hevert's projected DCF return on the market is going forward.

#### 7 Q PLEASE EXPLAIN.

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Duff & Phelps estimates the actual capital appreciation for the Standard & Poor's ("S&P") 500 over the period 1926 through 2015 to have been 5.8% to 7.7%. This compares to Mr. Hevert's projected growth of the market of 11.08% to 11.71%.

Further, historically the geometric growth of the market of 5.8%<sup>10</sup> has reflected geometric growth of GDP over this same time period of approximately 6.2%.<sup>11</sup>

This review of historical data establishes two facts very clearly. First, historical, actual achieved growth has been substantially less than projected by Mr. Hevert. Second, historical growth on the market has tracked historical growth of the U.S. GDP. Projected growth of the U.S. GDP now is closer to the 4% to 5% area. All of this information strongly supports the conclusion that Mr. Hevert's projected growth on the market of 11.08% to 11.71% is substantially overstated. While I do not endorse the use of an historical growth rate to draw assessments of the market's forward-looking growth rate outlooks, this data can be used to show how the market return estimates produced by Mr. Hevert are unreasonable and inflated.

<sup>11</sup>Hevert Direct Testimony at 28-29. Real GDP of 3.24% and historical inflation of 2.9%.

<sup>&</sup>lt;sup>9</sup>Duff & Phelps, 2016 Valuation Handbook: Guide to Cost of Capital at 2-4.

<sup>&</sup>lt;sup>10</sup>Real historical growth 3.25% (Hevert Direct Testimony at 35) and historical inflation of 2.9% (Duff & Phelps, 2016 Valuation Handbook: Guide to Cost of Capital at 2-4).

1	Q	CAN MR. HEVERT'S CAPM ANALYSIS BE REVISED TO REFLECT A MORE
2		REASONABLE MARKET RISK PREMIUM AND RECENT RISK-FREE RATES?
3	Α	Yes. Using Mr. Hevert's risk-free rates of 2.65% and 3.08%, the average published
4		Bloomberg and Value Line beta estimates of 0.616 and 0.769, 12 respectively; and my
5		calculated high-end market risk premium of 7.8%, Mr. Hevert's CAPM would be no
6		higher than 9.1%.

#### I.D. Bond Yield Plus Risk Premium

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8 Q PLEASE DESCRIBE MR. HEVERT'S BOND YIELD PLUS RISK PREMIUM 9 STUDIES.

Mr. Hevert proposes two risk premium studies: (1) a Primary bond yield plus ("BYP") risk premium study; and (2) an Alternative BYP risk premium study. The Primary BYP risk premium reflects a simple regression analysis based on a simple inverse relationship between interest rates and equity risk premiums. His Alternative BYP risk premium also uses a regression study but explains risk premiums by changes in interest rates, market volatility, and yield spreads between A-rated utility bonds and Treasury bond yields.

Mr. Hevert supports his risk premium findings by placing primary reliance on his Primary BYP risk premium. He concludes his risk premium methodology supports a return on equity in the range of 10.04% to 10.39%. I will comment on both Mr. Hevert's BYP risk premium studies and his conclusion on what these methodologies support as a fair return on equity on KCPL.

<sup>&</sup>lt;sup>12</sup>Schedule RBH-5.

#### I.D.1. Primary BYP Risk Premium

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#### 2 Q PLEASE DESCRIBE MR. HEVERT'S PRIMARY BYP RISK PREMIUM.

As shown on Schedule RBH-6, Mr. Hevert constructs a risk premium return on equity estimate based on the premise that equity risk premiums are inversely related to interest rates. He estimates an average electric risk premium of 4.50% over the period January 1980 through April 29, 2016. Then he applies a regression formula to the current, near-term, and long-term projected 30-year Treasury bond yields of 2.65%, 3.08%, and 4.45% to produce electric risk premiums of 7.39%, 6.97%, and 5.94%, respectively. Thus, he calculates return on equity estimates of 10.04%, 10.05%, and 10.39%, respectively.

### 11 Q IS MR. HEVERT'S PRIMARY BYP RISK PREMIUM METHODOLOGY

#### REASONABLE?

No. Mr. Hevert's contention that there is a simplistic inverse relationship between equity risk premiums and interest rates is not supported by academic research. While academic studies have shown that, in the past, there has been an inverse relationship among these variables, researchers have found that the relationship changes over time and is influenced by changes in perception of the risk of bond investments relative to equity investments, and not simply changes to interest rates.<sup>13</sup>

In the 1980s, equity risk premiums were inversely related to interest rates but that was likely attributable to the interest rate volatility that existed at that time. As such, when interest rates were more volatile, the relative perception of bond

<sup>&</sup>lt;sup>13</sup> The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts," Robert S. Harris and Felicia C. Marston, *Journal of Applied Finance*, Volume 11, No. 1, 2001 and "The Risk Premium Approach to Measuring a Utility's Cost of Equity," Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *Financial Management*, Spring 1985.

investment risk increased relative to the investment risk of equities. This changing investment risk perception caused changes in equity risk premiums.

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In today's marketplace, interest rate volatility is not as extreme as it was during the 1980s. 14 Nevertheless, changes in the perceived risk of bond investments relative to equity investments still drive changes in equity premiums and cannot be measured simply by observing nominal interest rates. Changes in nominal interest rates are heavily influenced by changes to inflation outlooks, which also change equity return expectations. As such, the relevant factor needed to explain changes in equity risk premiums is the relative changes to the risk of equity versus debt securities investments, and not simply changes in interest rates.

Importantly, Mr. Hevert's analysis simply ignores investment risk differentials. He bases his adjustment to the equity risk premium exclusively on changes in nominal interest rates. This is a flawed methodology that does not produce accurate or reliable risk premium estimates.

# Q DO YOU HAVE ANY OTHER COMMENTS CONCERNING MR. HEVERT'S BYP RISK PREMIUM METHODOLOGY?

Yes. Mr. Hevert's use of a long-term projected bond yield of 4.45% is not reflective of market participants' outlooks for KCPL's cost of capital during the period rates determined in this proceeding will be in effect. This bond yield is largely based on projections of Treasury bond yields five to 10 years out. Those projections are highly uncertain and in any event do not reflect the cost of capital in the test period, the true-up period, or even the period over the next two to three years, the period rates determined in this proceeding will largely be in effect. As such, the risk premium

<sup>&</sup>lt;sup>14</sup>"The Risk Premium Approach to Measuring a Utility's Cost of Equity," Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, *Financial Management*, Spring 1985, at 44.

1	methodology should be based on observable bond yields in the market today but at
2	most reflect bond yield projections only over the next two to three years, a period that
3	reflects the rate-effective period from this case.

## 4 Q CAN MR. HEVERT'S BYP RISK PREMIUM ANALYSIS BE REVISED TO REFLECT 5 CURRENT PROJECTIONS OF TREASURY YIELDS?

A Yes. Mr. Hevert's simplistic and incomplete notion that equity risk premiums change only with changes to nominal interest rates should be rejected, or corrected to reflect a risk premium that reflects the current market required return differences based on investment risk as I have proposed above. Adding my weighted average equity risk premium over Treasury bonds of 6.1% as described in my direct testimony to his Treasury yields of 2.65% and 3.08%, produces a BYP of 8.75% to 9.18%.

#### I.D.2. Alternative BYP Risk Premium

- 13 Q PLEASE DESCRIBE MR. HEVERT'S ALTERNATIVE BYP RISK PREMIUM
- 14 ANALYSIS?

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Mr. Hevert developed an Alternative BYP risk premium analysis to test how market conditions affect the relationship between interest rates and equity risk premiums.

Specifically, he developed a regression analysis in which the equity risk premium was the dependent variable and the Treasury bond yields, the spreads between Moody's A-rated yields and Treasury yields, and a market volatility index as measured by the Chicago Board Options Exchange ("CBOE") Volatility Index ("VIX") were the independent variables. Based on this analysis, he concluded these additional

variables (the	credit spreads	and the	VIX)	did not	add	statistical	significance	to	the
explanatory po	wer of his Prim	ary BYP	risk pr	emium	stud	y rates. <sup>15</sup>			

His Alternative BYP risk premium supported a return on equity in the range of 9.74% to 10.04%.<sup>16</sup>

## Q WHAT ISSUES DO YOU HAVE WITH MR. HEVERT'S ALTERNATIVE BYP RISK PREMIUM METHODOLOGY?

Mr. Hevert's Alternative BYP risk premium was developed on Schedule RBH-7 and is a substantial improvement to his simplistic Primary BYP risk premium. As noted above, the Primary BYP risk premium assumes current risk premiums in the market can be measured by simply changes in interest rates. This simplistic relationship is not supported in academic literature nor a reasonable outlook for changes in invested capital. As illustrated above, inflation outlooks can impact both equity returns and bond yields in a similar manner. Hence, declines in inflation outlooks can impact the equity return in bond interest rates without impacting the equity risk premium. Mr. Hevert's Primary BYP risk premium simply ignores this indisputable relationship.

Mr. Hevert applies his regression analysis to risk premiums based on individual rate case decisions with contemporary Treasury yields, A-rated utility bond and Treasury yield spreads, and the VIX market volatility index. He adjusted for rate case lag based on when the case was filed and when the case was decided. His analysis had 622 individual observations since December 1992. By including all of these individual observations with his speculative lag adjustment, his analysis produced a result with limited explanatory power (measured through the Adjusted R-Squared measure) and a higher standard error.

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<sup>&</sup>lt;sup>15</sup>Hevert Direct Testimony at 42.

<sup>&</sup>lt;sup>16</sup>Schedule RBH-7.

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Mr. Hevert's Alternative BYP risk premium study, while better than his Primary BYP risk premium, still needs improvement. Mr. Hevert has not shown that the volatility index he uses can accurately describe the difference between expected returns for utility securities and the general stock market. Investment return volatility for utility investors is far more stable than that of the overall stock market. This is illustrated by the fact utility companies have lower betas than that of the overall market. Hence, market volatility may explain increases in market return, but may overstate a fair return for a lower risk utility stock.

A spread between a utility bond security and Treasury market is a much better indication of changes in investment risk outlooks by the marketplace for utility versus general market investments. Had Mr. Hevert's Alternative BYP risk premium regressed changes in interest rates and utility to Treasury yield spread, it would have substantially improved the reasonableness of Mr. Hevert's BYP risk premium study.

# HOW WOULD MR. HEVERT'S ALTERNATIVE BYP RISK PREMIUM STUDY BE IMPACTED IF YOU REMOVE MR. HEVERT'S LAG ADJUSTMENT AND EXCLUDE THE VIX INDEX IN THE REGRESSION ANALYSIS?

I reproduced two versions of a multi-factor regression analysis. In my first analysis, I regressed risk premium (dependent) to (1) 30-year Treasury yield; and (2) yield spreads (A-rated utility to Treasury bond). This regression study produced stronger regression metrics than Mr. Hevert's risk premium study — an adjusted R-squared of 84.5% and a standard error of approximately 0.0037, compared to Mr. Hevert's adjusted R-squared and standard error of 68.6% and 0.0054, respectively.

1		When applying the current 13-week average 30-Year Treasury yield of 2.74%,
2		the current A utility-Treasury bond spread is 1.23%. This data produces a risk
3		premium of 7.01% and a cost of equity of approximately 9.76% (7.01% plus 2.74%,
4		as shown on page 1 of Schedule MPG-R-2).
5		In my second analysis, I again regressed risk premium against two variables:
6		(1) Treasury bond yields; and (2) yield spread (Baa utility to Treasury). This analysis
7		produced very similar results to my first study regression adjusted R-squared of
8		83.7% and standard error of 0.0038.
9		Applying the current 13-week average 30-Year Treasury yield of 2.74% and a
10		Baa utility bond/Treasury yield spread of 1.81%, produces an estimated risk premium
11		of 6.98% and a cost of equity of 9.73%, as shown on page 2 of Schedule MPG-R-2.
12		This revised Alternative BYP risk premium study supports a return on equity
13		for KCPL no higher than 9.75%.
14	Q	WOULD IT BE APPROPRIATE TO USE PROJECTED TREASURY BOND YIELDS
15		IN THIS REGRESSION STUDY TO MEASURE EQUITY RISK PREMIUMS?
16	Α	No. This model is specifically designed to capture relationships between observable
17		Treasury bond yields and utility bond to Treasury bond yield spreads. If a projected
18		Treasury bond yield was used, it would be necessary to also project the yield spreads
19		between utility bond yields and Treasury yields. This yield spread data simply is not
20		available. Therefore, this model can only be reliably applied to current observable

Treasury bond yields, and yield spreads.

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#### I.E. Additional Risks

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2	Q	DID MR.	<b>HEVERT</b>	CONSIDER	<b>ADDITIONAL</b>	BUSINESS	RISKS	TO	JUSTIFY	Α

3 RETURN ON EQUITY WITHIN HIS RANGE?

Mr. Hevert believes KCPL's regulatory environment, the environmental regulations associated with its generation portfolio, and its substantial capital expenditure plan relative to the proxy group conservatively support a return on equity within Mr. Hevert's range. I disagree. Setting the return on equity within Mr. Hevert's range will place an unreasonable burden on the ratepayers and should be rejected. As discussed below, KCPL's relative risk is comparable to the risk of the utility companies included in the proxy group.

#### Q WHY DO YOU BELIEVE THAT KCPL FACES RISKS THAT ARE COMPARABLE

TO THE RISKS FACED BY MR. HEVERT'S AND YOUR PROXY GROUP

#### COMPANIES?

The business risks identified by Mr. Hevert (regulatory environment, environmental regulations and capital expenditures) as well as all other relevant business risks are considered in the establishment of a credit rating by the various credit rating agencies. As shown on my Schedule MPG-4 included in my direct testimony and presented as Schedule MPG-R-4 in this testimony, the average S&P credit rating for my proxy group of "BBB+" is the same as KCPL's credit rating. The relative risks discussed on pages 43-53 of Mr. Hevert's testimony are already incorporated in the credit ratings of the proxy group companies. S&P and other credit rating agencies go through great detail in assessing a utility's business risk and financial risk in order to evaluate their assessment of its total investment risk. Therefore, this total risk investment assessment of KCPL, in comparison to a proxy group, is fully absorbed

1	into the market's perception of KCPL's risk and the proxy group fully captures the
2	investment risk of KCPL.

#### 3 Q HOW DOES S&P ASSIGN CORPORATE CREDIT RATINGS FOR REGULATED

#### 4 UTILITIES?

A In assigning corporate credit ratings, the credit rating agency considers both business and financial risks. Business risks, among others, include company's size and competitive position, generation portfolio, capital expenditure programs, consideration of the regulatory environment, current state of the industry, and the economy as whole. Specifically, S&P states:

To determine the assessment for a corporate issuer's business risk profile, the criteria combine our assessments of industry risk, country risk, and competitive position. Cash flow/leverage analysis determines a company's financial risk profile assessment. The analysis then combines the corporate issuer's business risk profile assessment and its financial risk profile assessment to determine its anchor. In general, the analysis weighs the business risk profile more heavily for investment-grade anchors, while the financial risk profile carries more weight for speculative-grade anchors. <sup>17</sup>

# 19 Q DID MR. HEVERT ALSO OFFER AN ASSESSMENT OF CURRENT MARKET 20 CONDITIONS IN SUPPORT OF HIS RECOMMENDED RETURN ON EQUITY 21 RANGE?

A Yes. Mr. Hevert suggests a few factors that gauge investor sentiment, including the relationship between the Federal Reserve's balance sheet and market volatility, measured by the CBOE Volatility Index, known as the VIX. He concludes these metrics indicate that current levels of instability and risk aversion are at historically

<sup>18</sup>Hevert Direct Testimony at 53-59.

<sup>&</sup>lt;sup>17</sup>Standard & Poor's RatingsDirect: "Criteria/Corporates/General: Corporate Methodology," November 19, 2013.

1	low levels	and	that	the	constant	growth	DCF	results	are	at	odds	with	market
2	conditions.												

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# DO YOU BELIEVE THAT MR. HEVERT'S USE OF THESE MARKET SENTIMENTS SUPPORTS HIS FINDINGS THAT KCPL'S MARKET COST OF EQUITY IS CURRENTLY IN THE RANGE OF 9.75% TO 10.50%?

No. In many instances Mr. Hevert's analysis simply ignores market sentiments favorable toward utility companies and instead lumps utility investments in with general corporate investments. A fair analysis of utility securities shows the market generally regards utility securities as low-risk investment instruments and supports the finding that utilities' cost of capital is very low in today's marketplace.

#### Q WHAT IS THE MARKET SENTIMENT FOR UTILITY INVESTMENTS?

The market sentiment toward utility investments, rather than just general corporate investments, is that the market is placing high value on utility securities recognizing their low risk and stable characteristics.

For example, this is illustrated by my Schedule MPG-15 filed with my direct testimony and presented as Schedule MPG-R-15 in my rebuttal testimony, under column 11 showing the spread between "A" rated utility bond yields and "Aaa" rated corporate bond yields. Currently, the spread is approximately 0.28%. This is a relatively low spread over the 36-year time horizon. Indeed, current spreads of utility versus high-grade corporate bond yields are at the lowest level they have been in most periods over the last 36 years. This is also reflective of the spreads between "Baa" utility bond yields relative to "Baa" corporate bond yields. Currently, utility bonds are trading at a premium to corporate bonds. This has been largely the case

during the significant market turbulence that has occurred over the last five to eight years. However, over longer periods of time, utility bond yields on average trade at parity to a premium to corporate "Baa" rated bond yields. The current strong utility bond valuation is an indication of the market's sentiment that utility bonds have lower risk than general corporate bonds and are generally regarded as a safe haven by the investment industry.

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Further, other measures of utility stock valuations also support a robust market for utility stocks. As shown on my Schedule MPG-3 included in my direct testimony, utility valuation measures – e.g., P/E ratio and market price to cash flow ratio – show stock valuation measures for the proxy group are robust. For example, for the proxy group, the current P/E ratio is comparable to and the cash flow ratio is stronger than the 14-year average valuation metrics.

For all these reasons, direct assessments of valuation measures and market sentiment toward utility securities support the credit rating agencies' findings, as quoted above, that the utility industry is largely regarded as a low-risk, safe haven investment. All of this supports my findings that utilities' market cost of equity is very low in today's very low cost capital market environment.

## DO YOU HAVE ANY COMMENTS CONCERNING MR. HEVERT'S CONTENTION THAT INTEREST RATES ARE GOING TO INCREASE?

Yes. Mr. Hevert develops his risk premium studies mainly relying on near-term and long-term projected interest rates, which he believes are expected to increase (Hevert Direct Testimony at 57-58). Mr. Hevert's proposal to rely mainly on forecasted Treasury bond yields is unreasonable because he is not considering the highly likely outcome that current observable interest rates will prevail during the period rates

determined in this proceeding will be in effect. This is important because, while current observable interest rates are actual market data that provides a measure of the current cost of capital, the accuracy of forecasted interest rates is problematic at best.

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## WHY DO YOU BELIEVE THAT THE ACCURACY OF FORECASTED INTEREST RATES IS HIGHLY PROBLEMATIC?

Over the last several years, observable current interest rates have been a more accurate predictor of future interest rates than economists' consensus projections. Schedule MPG-R-3 illustrates this point. On this schedule, under Columns 1 and 2, I show the actual market yield at the time a projection is made for Treasury bond yields two years in the future. In Column 1, I show the actual Treasury yield. In Column 2, I show the projected yield two years out.

As shown in Columns 1 and 2, over the last several years, Treasury yields were projected to increase relative to the actual Treasury yields at the time of the projection. In Column 4, I show what the Treasury yield actually turned out to be two years after the forecast. In Column 5, I show the actual yield change at the time of the projections relative to the projected yield change.

As shown in this schedule, economists consistently have been projecting that interest rates will increase over several years. However, as shown in Column 5, those yield projections have turned out to be overstated in almost every case. Indeed, actual Treasury yields have decreased or remained flat over the last several years rather than increased as the economists' projections indicated. As such, current observable interest rates are just as likely to accurately predict future interest rates as are economists' projections.

#### Q DO YOU HAVE ANY FURTHER COMMENTS IN REGARD TO MR. HEVERT'S

#### INTEREST RATE PROJECTIONS?

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Yes. First, it is simply not known how much, if any, long-term interest rates will increase from current levels or whether they have already fully accounted for the termination of the Federal Reserve's Quantitative Easing program and the increase in the Federal Funds rate. Nevertheless, I do agree this Federal Reserve program introduced risk or uncertainty in long-term interest rate markets. Because of this uncertainty, caution should be taken in estimating KCPL's current return on common equity in this case. However, as noted in the Edison Electric Institute ("EEI") quote below, the increase in short-term interest rates had no impact on longer-term yields that "remain at historically low levels and are influenced more by the level of inflation and economic strength than by the Fed's short-term rate policy." 19

Second, I would note KCPL is largely shielded from significant changes in capital market costs. To the extent interest rates ultimately increase above current levels, which may have an impact on required returns on common equity, at that point in time, KCPL, like all other utilities, can file to change rates to restate its authorized rate of return at the prevailing market levels.

#### II. UPDATED RETURN ON EQUITY

#### DID YOU UPDATE YOUR RETURN ON EQUITY STUDY?

Yes. While relying on the same methodology described in my direct testimony, I updated the inputs used in my DCF, CAPM and risk premium studies. My results are summarized in Table 4 below. Under Column 1, I show the results of my studies as discussed in my direct testimony and under Column 2, I show the updated results.

<sup>&</sup>lt;sup>19</sup>EEI Q4 2015 Financial Update: "Stock Performance" at 4.

7	ABLE 4	
Updated Retu	rn on Equit	y Studies
<u>Description</u>	Original (1)	Updated (2)
DCF Risk Premium CAPM	8.80% 9.20% 8.90%	9.00% 9.50% 8.90%

## 1 Q PLEASE SUMMARIZE YOUR CONCLUSIONS AND RETURN ON EQUITY 2 RECOMMENDATION.

The results of these updated studies are shown in my attached Schedules MPG-R-4 through MPG-R-18. As shown on these studies, the DCF studies were based on stock prices for the 13-week period ending December 16, 2016, updated analysts' growth rates in December forecast for future interest rates and GDP growth. The analysis was updated for the most recent *Value Line* reports, utility and Treasury bond yields through December 16, 2016.

The updated analyses were based on the same methodologies described in my direct testimony, but adjusted to reflect more recent market and/or published data.

#### 11 Q DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

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#### Kansas City Power & Light

#### Revised Hevert Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price (Average EPS Growth Rate Estimate in First Stage)

				ļ	Avera	ge EPS	Grown	n Rate I	Estimal	e in Fi	st Star	<u>(e)</u>							
inputs		[1] Stock	[Z] EP	(3) S Growsh .	[4] Rate Estin	[5]	[6] Long-Terr	[7]	[S] Payout Ra	<u> </u>	[10]	[11] Soution	[12]	[13] Termina	ī				
Сотрапе	Troise	Price	Zatks	Frat Call	Value Line	Average	Growin	2015	2020	2026	Presf	धरर		:PEG Ras					
ALLETE, Inc.	ΑLE	\$55.26	4 50%	3 00%	4 00%	3 83%	4 25%	66 00%	6400%	66 00%	(E) (E)	8.43%	16.24	3.82	¥				
Alliant Energy Corporation American Corporation	LNT	\$35.91 \$47.78	6.10%	6 60% 5 20%	600% 500%	6 23% 5.43%	4.25% 4.25%	64 00% 63 00%	64 00%	64 00% 68 00%	\$5,00 (\$6,00)	8.00%	17.77 17.80	4.18 4.19					
American Electric Power Company, Inc	ASP AVA	\$54.21 \$60.20	4 90%	4.10%	4 50%	4 50%	4.25%	6100%	69 00%		(\$0.00)	8 23%	16 53	3 69					
Avista Corporation CUS Energy Corporation	CVS	\$43.94	6.40%	5 00% 7 24%	5 00% 6 00%	5 00% 6 55%	4.25% 4.25%	68 00% 63 00%	63.00% 63.00%	68 00% 63 00%	(\$1,00) \$1,00	7.91% 7.96%	19.39 17.70	4.56 4.16					
DTE Energy Concerns IDACORP, Inc	DTE	\$89.05 \$72.54	5 50% 4 00%	5 35% 4 00%	4 50% 3 00%	5 22% 3 67%	4.25% 4.25%	61 00% 53.00%	64 00% 80 00%	51 00% 53 00%	\$2.00 \$2.00	7.83% 7.28%	17.74 18.22	4.17 4.29					
NorthWestern Corporation	NAE	\$57.42	5 00%	5 00%	6.50%	5 50%	4.25%	65 00%	59 00%	65 00%	(\$3.50)	8 12%	1753	4.12					
OGE Energy Corp Order Tail Corporation	OGE	\$29.76 \$29.38	5 20% KA	4 30% 6 00%	2.50%	4 00% 6 00%	4 25% 4 25%	64 00% 80 00%	74.00% 63.00%	64 00% 80 00%	(\$0.00) \$0.00	6.33% 9.30%	16 34 16 53	384 389					
Pinnsole West Capital Corporation	PNW	\$72.71 \$32.12	4 00% 7.60%	373%	4 00%	391%	4 25%	64 00%	65 00%	84 00%	\$0,00	7.97%	17.92	4.22					
FriM Resources, Inc Portland General Electric Company	POR	\$40.21	6 40%	8 76% 6 57%	9 00% 5 50%	8 45% 6 16%	4 25% 4 25%	51 00% 56 00%	55 00% 56 00%	51 00% 56 00%	(80,00) (80,00)	8 04% 7.76%	14.03 16.52	3.30 3.69					
SCANA Corporation  Xoel Energy Inc	SCG XEL	\$68.65 \$40.51	5 30% 5 30%	4 80% 5 27%	4 50% 5 50%	4 87% 5 35%	4 25% 4 25%	59 00% 62 00%	60 00% 63 00%		(\$0.00) \$0.00	8 00% 8 06%	16.41 16.97	3 86 3 99					
			0.00		0.02/1		720/-		0,000	04.00.77		DCF Rev.	lk		-				
											Var	9 30%	17.10 19.33	4 02 4 56					
Projected Annual											Min		14 03	3.30					
Еалагда рег Share		114	ទ្រ	[16]	[17]	[18]	[19]	[au	[21]	[24]	[23]	[24]	[25]	[26]	27]	[Æ]	<u> </u>	[30]	<b>.</b>
Cortpany AUCTE, Inc.	TICKE ALE	2015 : \$3.38	2016 \$3.51	2017 \$3.64	2018 \$3.78	2019 \$3.93	2020 \$4.08	\$4.24	2022 \$4.41	2023 \$4.59	\$477	2025 \$4.97	2026 \$5.18	\$5.40	2028 \$5.63	2029 \$5.87	2030 \$5.12	2031 \$6.38	-
Affant Energy Corporation	INT	\$1.69	\$1.79	\$1.90	\$2.02	\$215	\$2.28	\$2.41	\$2.55	\$2.63	\$251	\$2.94	\$3.07	\$3.20	\$3 33	\$3 48	\$3.62	\$378	
Arreiten Corporation American Electric Power Company, Inc.	AEE.	\$2.38	\$251 \$376	\$2.65 \$3.93	\$279 \$4.11	\$2.94 \$4.29	\$3 10 \$4 49	\$3.26 \$4.69	\$3.43 \$4.69	\$3.59 \$5.11	\$3.76 \$5.33	\$3.93 \$5.56	\$4 09 \$5 79	\$4.27 \$6.04	\$4.45 \$6.30	\$4.64 \$6.56	\$4 84 \$6 84	\$5:04 \$7.13	
Arista Corporation	AVA	\$183	\$198	\$2.08	\$2.19	\$230	\$2.41	\$2.53	\$265	\$2.77	\$290	\$3 02	\$3.15	\$3.29	\$3.43	\$3.57	\$372	\$3.68	
CMS Energy Corporation DTE Energy Corporary	CMS DTE	\$1.89	\$201 \$467	\$2.15 \$4.92	\$2.29 \$5.17	\$2.44 \$5.44	\$2.60 \$5.73	\$276 \$5.01	\$291 \$631	\$3.07 \$6.61	\$3.23 \$6.91	\$3.33 \$7.21	\$3.52 \$7.52	\$3.67 \$7.84	\$3.82 \$8.17	\$3 99 \$8 52	\$4,16 \$8,83	\$433 \$926	
IDACORP, Inc	IDA IME	\$3.87	\$401	\$4.15 \$3.23	\$431	\$4 47	\$4 63	\$481	\$4.99	\$5 19	\$5,40	\$5.63	\$5 87	\$611	\$6 37	\$6.65	\$6.93	\$7.22	
NothWestern Corporation OGE Energy Corp.	OGE	\$1.75	\$3.09 \$1.78	\$1.65	\$3.45 \$1.92	\$3.59 \$2.00	\$3.79 \$2.08	\$3.99 \$2.16	\$4,19 \$2,25	\$4.40 \$2.35	\$4.60 \$2.44	\$4.61 \$2.55	\$561 \$265	\$523 \$277	\$5.45 \$2.69	\$5.68 \$3.01	\$5.92 \$3.14	\$6.17 \$3.27	
Other Tail Corporation Printable West Capital Corporation	OTTR	\$1.56 \$3.92	\$1.65 \$4.07	\$1.75 \$4.23	\$1.86 \$4.40	\$1.97 \$4.57	\$2.09 \$4.75	\$2.21 \$4.94	\$233 \$5.14	\$2.45 \$5.35	\$2.55 \$5.57	\$263 \$580	\$2.79 \$9.05	\$2.91 \$6.30	\$3.04 \$6.57	\$3 17 \$5 65	\$3.30 \$7.14	\$3.44 \$7.45	
PNM Resources, inc	FT	\$1.64	\$1.78	\$1.93	\$2.09	\$2.27	<b>\$2 46</b>	\$265	5284	\$302	\$3.19	\$3.35	\$3.49	\$3 64	\$3.79	\$3.95	\$4.12	\$430	
Portland General Electric Company SCANA Corporation	POR	\$2.04 \$3.61	\$217	\$2.30 \$4.19	\$244 \$439	\$2.59 \$4.61	\$275 \$483	\$291 \$509	\$3 07 \$5 30	\$3.23 \$5.54	\$3 39 \$5 79	\$354 \$904	\$3 69 \$6 23	\$3.85 \$6.56	\$4 02 \$6 84	\$4 19 \$7.13	\$4.36 \$7.44	\$4.55 \$7.75	
Xxel Energy Inc	ΣEL	\$210	\$221	\$2.33	\$2.45	\$2.59	\$2.73	\$2.87	\$301	\$3 15	\$3.30	\$3.45	\$3.59	\$3,75	\$3.91	\$4.07	\$4.24	\$4.42	_
Projected Annual Onlidend Payout Ratix			[12]	[32]	[33]	[34]	[35]	[36]	[37]	[36]	[36]	[40]	[41]	[42]	[43]	(44)	[45]	45	
Сотралу	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
ALLETE, Inc.	ALE	13.40.50	65 00% 64 00%	65 50%	65 00% 64 00%	64 50%	64.00%	61 33%	64 67%	65 00%	65 33%	65 67 %	66.00%	65 00%	65 00%	66 00%	66 00%	65 00%	-
Alliant Energy Corporation America Corporation	AEE		68 00%	64 00% 65 75%	65.50%	64 00% 64 25%	63 00%	64 00% 63 83%	64.00% 64.67%	64 00% 65 50%	64 00% 65 33%	64 00% 67,17%	64 00% 68 00%	64 00% 68 00%	64 00% 68.00%	64 00% 68 00%	64 00% 68 00%	64.00% 68.00%	
American Electric Power Company, Inc. Alieta Corporation	AEP AVA		6100%	64 50% 66 75%	65 00% 65 50%	65 50% 64 25%	63 00% 63 00%	55.67% 63.83%	65 33% 64 67%	65 00% 65 50%	64.67% 65.33%	64 33% 67.17%	64 00% 58 00%	64 00% 68 00%	64 00% 68 00%	64 00% 63 00%	64.00% 68.00%	64 00% 68 00%	
CMS Energy Corporation	CUS		63 00%	63 00%	63 00%	63 00%	63 00%	63 00%	5300%	63 00%	53 DO%	63 00%	63 00%	63.00%	63 00%	63 00%	6300%	63 00%	
DTE Energy Company IDACORP, Inc	DTE		61 00% 53 00%	61.75% 54.7 <del>5</del> %	52 50% 56 50%	63 25% 53 25%	64.00% 60.00%	63 50% 58 83%	63 00% 57.67%	62.50% 56.50%	62.00% 55.33%	61 50% 54 17%	61 00% 53 00%	61.00% 53.00%	61.00% 53.00%	61 00% 53 00%	51.00% 53.00%	61.00% 53.00%	
North-Mestern Corporation	MVE		65.00%	63.50%	62,00%	60 50%	59 00%	60 00%	6100%	52.00%	63 00%	64 00%	65 00%	65 00%	65 00%	65 00%	66 00%	65 00%	
OGE Energy Corp. Other Tail Corporation	OGE	1400	64 00%	66 50% 75 75%	69 00% 71 50%	71.50% 67.25%	74.00% 63.00%	72 33% 65 83%	70 67% 63 67%	69 00% 71 50%	67.33% 74.33%	65 67% 77.17%	64.00% 80.00%	54 00% 50 00%	64.00%	64.00% 80.00%	64 00% 80 00%	64 00% 80 00%	
Pimetre West Capital Corporation	PRW		54 00%	64.25%	64 50%	64.75%	65 00%	64 83%	64.67%	64.50%	64 33%	84.17%	64 00%	64 00%	64.00%	64,00%	64 00%	64 00%	
PNM Resources, Inc. Portland General Electric Company	POR		51 00% 55.00%	52.00% 56.00%	53 00% 56 00%	54 00% 56 00%	55 00% 56 00%	5433% 5600%	53 57% 56 00%	53 00% 56 00%	52 33% 55 00%	51.67% 56.00%	51 00% 56.00%	51.00% 56.00%	51 00% 56 00%	51 00% 56 00%	51 00% 56 00%	51 00% 56 00%	
SCANA Corporation Xxel Energy Inc	SCG XEL		59.00% 62.00%	59 25% 62 25%	59 50% 62 50%	59 75% 62.75%	50.00% 63.00%	59 83% 62 83%	59 67% 62 67%	59 50% 62.50%	59 33% 62 33%	59.17% 62.17%	59 00% 62 00%	59 00% 62 00%	59 00% 62.00%	59 00% 62 00%	59 00% 62 00%	59.00% 62.00%	
																			•
Projected Annual Cash Flows			[47]	<b>[48]</b>	[49]	(50)	[51]	[52]	(53	[4]	F59	166	[57]	[58]	FG]	160]	<b>[61]</b>	(62)	[63]
	Ticker		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Terminal Value
ALLETE, Inc.	ALE	45/19/30	\$2.32	\$239	\$246	\$2.53	\$261	\$2.73	1265	\$2.98	\$3.12	\$3.27	\$3.42	\$3.57	\$372	\$3.63	\$4.04	\$4 21	\$103 ES
Attent Energy Corporation America Corporation	LNT	10000	\$1.15 \$1.71	\$1 22 \$1 77	\$1.29 \$1.83	\$1 37 \$1 89	\$1.46 \$1.95	\$1.55 \$2.08	\$1,63 \$2,22	\$172 \$235	\$1.50 \$2.49	\$1.63 \$2.64	\$1.96 \$2.78	\$2.06 \$2.90	\$2.13 \$3.03	\$2.22 \$3.15	\$2.32 \$3.29	\$242 \$343	\$67,14 \$89.76
American Electric Power Company, Inc.	AEP		\$241	\$2.54	\$267	\$281	\$296	\$3.08	\$3.20	\$3 32	\$3.45	\$3.58	\$3.71	\$3.87	\$403	\$4.20	\$4.38	\$4.57	\$117.91
Avista Corporation CVS Energy Corporation	AVA ÇVS		\$1.35 \$1.27	\$1.33 \$1.35	\$1,43 \$1,44	\$1.43 \$1.53	\$1.52 \$1.63	\$1.61 \$1.74	\$1.71 \$1.64	\$1 82 \$1 94	\$1.92 \$2.03	\$203 \$213	\$2.14 \$2.22	\$2.23 \$2.31	\$233 \$241	\$2.43 \$2.51	\$2.53 \$2.52	\$2.64 \$2.73	\$75.29 \$76.69
DTE Energy Company	DIE		\$265	\$3.04	\$3.23	\$3.44	\$3.66	\$382	\$3.97	\$4.13	\$4.29	\$4 44	\$4.59	\$4.78	\$4.99	\$5.20	\$5.42	\$5.65 \$3.83	\$16430
iDACORP, Inc. Nort/Western Corporation	IDA NWE		\$213 \$199	\$2.28 \$2.05	\$244 \$211	\$2 60 \$2 17	\$2.78 \$2.24	\$2.83 \$2.39	\$288 \$286	\$2.93 \$2.73	\$2.99 \$2.90	\$305 \$308	\$3.11 \$3.26	\$3.24 \$3.43	\$3.38 \$3.54	\$3 52 \$3 69	\$3.67 \$3.65	\$4.01	\$131.59 \$108.21
OGE Energy Corp.	OGE OTTR		\$1.14 \$1.32	\$1.23 \$1.33	\$1.33 \$1.33	\$1.43 \$1.32	\$1.64 \$1.32	\$1.57 \$1.45	\$1.59 \$1.60	\$1.62 \$1.75	\$1.65 \$1.51	\$1.67 \$2.07	\$1.70 \$2.24	\$1.77 \$2.33	\$1.65 \$2.43	\$1.92 \$2.53	\$201 \$264	\$2.09 \$2.75	\$53.41 \$56.66
Order Tail Corporation Primade West Capital Corporation	PILM		\$261	\$2.72	\$284	\$2.96	\$3.09	\$3.20	\$3.32	\$3.45	\$3.68	\$372	\$3.87	\$4 03	\$4.21	\$4.38	\$4.57	\$476	\$133,44
PNM Resources, Inc. Portland General Electric Company	POR		\$0.91 \$1.21	\$1.00 \$1.29	\$1.11 \$1.37	\$1 23 \$1 45	\$1.35 \$1.54	\$1.44 \$1.53	\$1.52 \$1.72	\$1.60 \$1.61	\$1 57 \$1 90	\$1.73 \$1.98	\$1.78 \$2.07	\$1.66 \$2.16	\$1.93 \$2.25	\$2.02 \$2.34	\$2.10 \$2.44	\$219 \$255	\$50.27 \$75.14
SCANA Corporation	SCG		\$2.36	\$2.43	\$261	\$2.75	\$2.90	\$3 03	\$3.16	\$3.30	\$3,43	\$3.57	\$3.71	\$3.87	\$4.04	\$4.21	\$439	\$4.57	\$127.19
Xcel Energy Inc	)EL	********	\$1.37	\$1.45	\$1.53	\$1.62	\$1.72	\$1.60	\$1,89	\$1 97	\$2.05	\$2.14	\$2.23	\$232	\$2.42	\$2.52	\$263_	\$2.74	\$75.09
Projected Annual Data																			
Investor Cash Flows		(E4) Intsal	িহ	[66]	[67]	[68]	[63]	[70]	[71]	72	[73]	[74]	[76]	[76]		[76]	<u>7¥</u>	[60]	[31]
ALLETE, Iro.	Tcx≄ ALE	Outtow (\$56.26)	5/31/16 \$3/00	12/31/16 \$1.36	6/30/17 \$2.35	6/30/18 \$2.45	6/30/19 \$2.53	5/30/20 \$2.61	6/30/21 \$2.73	5/33/22 \$2.85	6/30/23 \$2.98	6/30/24 \$3.12	5/30/25 \$3.27	6/30/26 \$3.42	8/30/27 \$3.57	6/30/28 \$3.72	6/30/29 \$3.88	6/30/30 \$4.04	\$107.63
Allant Energy Corporation	DAT	(\$35.91)	\$0.00	\$0.67	51.18	\$1.29	\$1.37	\$1.46	\$1.55	\$163	\$1.72	\$1.50	\$1.83	\$1.96	\$2.06	\$213	\$2 22	\$2.32	\$59.55
American Corporation American Electric Power Company, Inc.	AEE AEP	(\$47.78) (\$64.21)	\$0.00 \$0.00	\$1.00 \$1.41	\$1 75 \$2.46	\$1.83 \$2.67	\$1.89 \$2.81	\$1.95 \$2.96	\$208 \$308	\$2.22 \$3.20	\$235 \$332	\$2.49 \$3.45	\$264 \$358	\$2.78 \$3.71	\$2.90 \$3.87	\$3 03 \$4 03	\$3.15 \$4.20	\$3.29 \$4.38	\$93.19 \$122.48
Avista Corporation	AVA	(\$40.20)	\$0.00	\$0.79	\$1.38	\$1.43	\$1.48	\$152	\$161	\$1.71	\$182	\$1.52	\$2.03	\$2.14	\$2.23	\$233	\$2 43	\$2.53	\$77.93
CNS Energy Corporation DTE Energy Company	DTE DTE	(\$40.94) (\$83.06)	\$000 \$000	\$0.74 \$1.67	\$1.31 \$2.92	\$1.44 \$3.23	\$1.53 \$3.44	\$1.63 \$3.66	\$1.74 \$3.82	\$1.84 \$3.97	\$1.94 \$4.13	\$2 03 \$4 28	\$2.13 \$4.44	\$2 22 \$4 59	\$231 \$4.78	\$2.41 \$4.99	\$2 51 \$5 20	\$2.62 \$5.42	\$79.42 \$1 <del>69</del> .55
IDACORP, Inc	NDA.	(\$72.54)	\$200	\$1.25	\$2.17	\$2.44	\$2.60	\$2.78	\$283	\$258	\$2.93	\$2.99	\$3.05	\$3.11	\$3.24	\$3.38	\$3.52	\$3.67	\$135.42
North Nestern Corporation OGE Energy Corp.	OGE	(\$57.42) (\$29.76)	\$0.00 \$0.00	\$1.17 \$0.67	\$2.04 \$1,16	\$2.11 \$1.33	\$2.17 \$1.43	\$2.24 \$1.54	\$2.39 \$1.57	\$2.56 \$1.59	\$2.73 \$1.62	\$2.90 \$1.65	\$3.08 \$1.67	\$3.26 \$1.70	\$3.40 \$1.77	\$3.54 \$1.65	\$3.69 \$1.92	\$3.65 \$2.01	\$112.22 \$56.50
Other Tail Corporation Prinable West Capital Corporation	OTTR FNW	(\$29.38) (\$72.71)	\$0.00 \$0.00	\$0.78 \$1.53	\$1 35 \$2.66	\$1.33 \$2.84	\$1 32 \$2.95	\$1.32 \$3.03	\$1.45 \$3.20	\$1.60 \$3.32	\$1,75 \$3,45	\$1.91 \$3.58	\$2.07 \$3.72	\$2.24 \$3.87	\$2.33 \$4.03	\$2.43 \$4.21	\$2.53 \$4.33	\$2.64 \$4.57	\$59.61 \$138.20
					44.44	44 - 7	44.00	4-03	44.44		97.77		+ 15	40.03	£1 03	<b>→7</b> ∠1	w + .33		
Ft. V Resources, Inc.	PAM	(\$32.12)	\$0.00	\$0.53	\$0.95	\$1.11	\$1 23	\$1.35	\$1.44	\$152	\$1.60	\$1.67	\$173	\$1.78	\$1.85	\$1.93	\$2.02	\$210	\$52.45
Portland General Electric Company	PAN POR	(\$32.12) (\$40.21)	\$900 \$900	\$0.53 \$0.71	\$0.95 \$1.25	\$1.11 \$1.37	\$1.45	\$1.54	\$1.44 \$1.63	\$1.52 \$1.72	\$1.60 \$1.61	\$1.90	\$1.73 \$1.93	\$1.78 \$2.07	\$2.16	\$2.25	\$2.34	\$244	\$77.69
	PAM	(\$32.12)	\$0.00	\$0.53	\$0.95	\$1.11			\$1.44	\$152	\$1.60		\$173	\$1.78					

#### Kansas City Power & Light

#### Revised Hevert Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price (Average EPS Growth Rate Estimate in First Stage)

					1.1.1		Growt	Rate	<u>Estima</u>					14.54					
inputs		Stock	EF	S Growth	[4] Rada Éstr Value	See	Long-Ten	n [7]	Payout Ra	16 10	[10] Reradive	[11] Solden	Terrina	123 Termina	ī				
Сопрапу	Ticker		Zacks	First Cal	Line	Alerage	Growth	2016	2020	2026	Proof	RR		PEG Re	0				
ALLETE, Inc Allert Energy Corporation	ALE	\$55 04 \$35.24	4 50% 6 10%	3 07% 6 60%	4 02% 6 00%	3 83% 6 23%	4 25% 4 25%	55 00% 54 00%	64 00% 64 00%	66 00% 64 00%	(\$150) \$250	8 55% 8 06%	15.68 17.43	3 74 4.10					
Ameren Corporation	AEE	\$47.50 \$63.66	6 10% 4.50%	5 20% 4 10%	5 00% 4 50%	5.43% 4.50%	4 25% 4 25%	68 00% 64 00%	63.00% 66.00%	63.00% 64.00%	(\$3.00) \$1.00	8.26% 8.32%	17.70 16.39	4.16 3.56					
American Electric Power Company, in Avista Corporation	AVA	\$39.22	5 00%	5 00%	5 00%	5 00%	4 25%	68 00%	63 00%	68 00%	(\$100)	8 00%	18 92	4 45					
CMS Energy Corporation D1E Energy Company	OVS	\$40.55 \$87.58	6 40% 5 80%	7.24% 5.35%	6 00% 4 50%	6 55% 5.22%	4 25% 4 25%	63 00% 61 00%	63.00% 64.00%	63 00% 61 00%	52 00 \$3.00	8 00% 7.90%	17.53 17.44	4.12 4.10					
IDACORP, Inc.	IDA IME	\$72.14 \$58.61	4.00% 5.00%	4 00% 5 00%	3 00% 6 50%	3 67% 5 50%	4 25% 4 25%	53 00% 65 00%	60 00% 59 00%	53 00% 65 00%	(\$3.00) \$3.00	7.30% 8.04%	18.12 17.89	4 26 4 21					
North Nestern Corporation OGE Energy Corp.	OGE	\$27.90	5.20%	4.30%	250%	4 00%	4 25%	64 00%	74 00%	64 00%	\$3.00	8 62%	15.28	360					
Other Tail Corporation Provide West Capital Corporation	OTTR	\$28.40 \$71.24	NA 4.00%	6 00% 3.73%	5 00% 4 00%	600% 391%	4.25% 4.25%	80 00% 64 00%	63 00% 65 00%	80 00% 64.00%	(\$3.00) \$3.00	9 47% 8 05%	15 99 17.55	3.76 4.13					
PhiM Resources, inc. Portland General Electric Company	POR	\$32.35 \$39.34	7.50% 6.40%	8.76% 6.57%	9 00%	8.45% 6.16%	4 25%	51.00% 56.00%	55 00% 56 00%	51 00% 56 00%	(\$3.00) (\$3.00)	8 01% 7.86%	14.13 16.16	3 32 3 80					
SCANA Corporation	\$CG	\$57.31	530%	4 80%	4 50%	4.87%	4.25%	59 00%	60 00%	59 00%	57.00	8 06%	15 04	377					
Xcel Energy Inc	XEL	\$40.14	5 30%	5 27%	5 50%	5 36%	4.25%	62.00%	63 00%	62.00%	\$3.00	8 09% DCF Ress.		396	-				
				- 1								8.17% 9.47%	15.83 18.92	3.96 4.45					
Projected Annual											Ma		14 13	3 32					
Earnings per Share		<u>[14]</u>	(15	្រឡ	[17]	[18]	[15]	[20]	[21]	[22]	[23]	[24]	25	ΖQ	四]	[26]	[25]	[30]	
Company	Toe	2015	2016	2017	2018	2019	2020	2021	2002	2023	2024	2025 \$4.97	2026 \$5.18	2027 \$5.40	2028 \$5.63	2029 \$5.87	2030 \$3.12	2031 \$6.33	_
ALLETE, Inc Allert Energy Corporation	UIT.	\$3.33 \$1.69	\$3.51 \$1.79	\$3.64 \$1.90	\$3.78 \$2.02	\$3.93 \$2.15	\$4.08 \$2.28	\$4.24 \$2.41	\$4.41 \$2.55	\$459 \$263	\$4.77 \$2.61	\$294	\$3 07	\$3.20	\$3.33	\$3 43	\$362	\$378	
Ameren Corporation American Electric Power Coropany, Inc.	AEE AEP	\$2.33 \$3.60	\$251 \$376	\$2.65 \$3.93	\$2.79 \$4.11	\$2.94 \$4.29	\$3 10 \$4.49	\$3.26 \$4.69	\$3.43 \$4.89	\$3.59 \$5.11	\$3.76 \$5.33	\$3 93 \$5 56	\$4.09 \$5.79	\$4.27 \$5.04	\$4.45 \$6.30	\$4.64 \$6.56	\$4.84 \$6.84	\$504 \$7.13	
Aufsta Corporation	AVA	\$1.89	\$1.98	\$2.08	\$219	\$230	\$2 41	\$253	\$265	\$277	\$2.90	\$3.02	\$3.15	\$3.29	\$3 43	\$3.57	\$372	\$3.53	
CMS Energy Corporation DTE Energy Company	CVS DTE	\$1.69 \$4.44	\$2.01 \$4.67	\$2.15 \$4.92	\$2.29 \$5.17	\$2.44 \$5.44	\$2 60 \$5 73	\$2.76 \$5.01	\$2.91 \$5.31	\$3.07 \$6.61	\$3.23 \$6.91	\$3.33 \$7.21	\$3.52 \$7.52	\$3.67 \$7.84	\$3.62 \$8.17	\$3.99 \$8.52	\$4.16 \$3.83	\$4 33 \$9 26	
IDACORP, Inc. NorthAssem Corporation	IDA NAE	\$3.87 \$2.90	\$4.01 \$3.06	\$4.16 \$3.23	\$4.31 \$3.41	\$4.47 \$3.59	\$4 63 \$3 79	\$4.81 \$3.99	\$4.99 \$4.19	\$5.19 \$4.40	\$5.40 \$4.60	\$5.63 \$4.81	\$5 87 \$5 01	\$5.23	\$9.37 \$5.45	\$6 65 \$5 68	\$6.93 \$5.92	\$7.22 \$6.17	
OGE Energy Corp.	OGE	\$1.71	\$1.78	\$1.65	\$1 92	\$2.00	\$2.08	\$216	\$2.25	\$235	\$2.44	\$2.55	\$2.65	\$2.77	\$2.89	\$3 01	\$314	\$3.27	
Otter Tail Corporation Pinnacie West Capital Corporation	PNN	\$1.56 \$3.92	\$1.65 \$4.07	\$1.75 \$4.23	\$1.56 \$4.40	\$1.97 \$4.57	\$2.09 \$4.75	\$2.21 \$4.94	\$2.33 \$5.14	\$2.45 \$5.35	\$2.56 \$5.57	\$2.63 \$5.80	\$2.79 \$6.05	\$2.91 \$6.30	\$3.04 \$6.57	\$3.17 \$6.65	\$330 \$7.14	\$3.44 \$7.45	
PNM Resources, Inc. Portland General Bectric Company	POR	\$1.64 \$2.04	\$1.78 \$2.17	\$1 93 \$2.30	\$2.09 \$2.44	\$2.27 \$2.59	\$2.46 \$2.75	\$2.65 \$2.91	\$2.84 \$3.07	\$3 02 \$3 23	\$3.19 \$3.39	\$3.35 \$3.54	\$3.49 \$3.69	\$3.64 \$3.65	\$3.79 \$4.02	\$3.95 \$4.19	\$4.12 \$4.36	\$4.30 \$4.55	
SCANA Corporation	SCG	\$3.81	\$4.00	\$4.19	\$4.39	\$461	\$4 63	\$5.06	\$5 30	\$5.54	\$5.79	\$6.04	\$6.29	\$6.55	\$6.84	\$7.13	\$7.44	\$7.75	
Xxel Energy Inc	ΣĒL	\$210	\$2.21	\$2.33	\$2.45	\$2.59	\$2.73	\$2.87	\$3.01	\$3.15	\$3.30	\$3.45	\$3.59	\$3.75	\$3.91	\$4 07	\$424	\$4.42	-
Projected Annual																			
Dividend Payout Raix			[31)	[32]	[33]	[34]	D5	[36]	[37]	[38]	[39]	[43]	[41]	[42]	43	[44]	<b>[45</b> ]	46	-
Company ALLETE, Inc.	Ticker ALE	rate or self-and	2016 66.00%	2017 65 50%	2018 65 00%	2019 64 50%	2020 64.00%	2021 64.33%	2022 54 67%	2023 65 00%	2024 65 33%	2025 65 67 %	2026 65 00%	2027 65 00%	2028 66 00%	2029 66 00%	2030 56 00%	2031 65 00%	•
Allant Energy Compretion	LXI		64 00%	64 00%	64 00%	64 00%	64 00%	64 00%	64.00%	64.00%	64 00%	64.00%	64 00%	64 00%	64.00%	64 00%	64.00%	64.00%	
American Electric Power Company, Inc.  American Electric Power Company, Inc.	. ASE 93A :		68 00% 64 00%	68 75% 64 50%	65 50% 65 00%	64 25% 65 50%	63 00% 66 00%	63 83 % 65 67 %	64 67% 65 33%	65 50% 65 00%	65 33% 64 67%	67.17% 64 33%	68 00% 64 00%	68 00% 64 00%	63 00% 64 00%	68 00% 64 00%	68 00% 64 00%	63.00% 64.00%	
Avista Corporation CASS Energy Corporation	AVA		63.00%	69.75% 63.00%	65.50% 63.00%	64.25% 63.00%	63 00% 63 00%	63 83%	64 67% 63 00%	65.50%	63 00%	67.17% 63.00%	63 00%	63 00% 63 00%	63 00%	63 00%	63 00% 63 00%	63 00% 63 00%	
DTE Energy Company	DIE	1/25/2002	61.00%	61.75%	62.50%	63.25%	64 00%	63 50%	63 00%	62.50%	62.00%	61.50%	61 00%	61 00%	61 00%	61 00%	61 00%	61.00%	
IDACORP, Inc. NorthWestern Corporation	MVE		53 00% 65.00%	54 75% 63 50%	56 50% 62.00%	58.26% 60.50%	60 00% 59 00%	58 83% 60 00%	57.67% 61.00%	56 50% 62.00%	55 33% 63 00%	54 17% 64 00%	53 00% 65 00%	53 D0% 65 D0%	53 00% 65 00%	53 00% 65 00%	53 00% 65 00%	53 00% 65 00%	
DGE Energy Corp.	OGE OTTR		64.00% 80.00%	66.50% 75.75%	69 00% 71.50%	71.50% 67.25%	74.00% 63.00%	7233% 6583%	70 67% 68 67%	69 00% 71 50%	67.33% 74.33%	65 67 % 77,17%	64 00% 80 00%	64 00% 80,00%	64.00%	64 00%	64 00%	64 00% 80 00%	
Otter Tail Corporation Printede West Capital Corporation	PNNV		64 00%	64.25%	64.50%	64 75%	65 00%	64 83%	64 67%	64.50%	64 33%	64.17%	54 00%	64 00%	64 00%	64 00%	64 00%	64.00%	
PNM Resources, Inc. Portland General Electric Company	POR	111111111111	51.00% 56.00%	52.00% 56.00%	53 00% 56 00%	54 00% 56 00%	55 00% 56 00%	54 33% 56 00%	53 67% 58 00%	53 00% 56 00%	52 33% 55,00%	51.67% 56.00%	51 00% 56 00%						
SCANA Corporation	SCG		59 00%	59 25%	59 50%	59 75%	80 00%	59 83%	59 67%	59 50%	59 33%	59.17%	59 00%	59 00%	59 00%	59 00%	59 00%	59 00%	
Xoel Energy Inc.	Æ	47.27725	62 00%	62.25%	62 50%	62 75%	63.00%	62 83%	62 67%	62 50%	62 33%	62.17%	62.00%	62.00%	62.00%	62.00%	62.00%	62.00%	•
Projected Annual									***	***		***	***		***	****			
Cash Flows			[47]	[49]	[49]	[50]	<b>[51]</b>	[52]	[53]	(54)	[55]	156	[57]	[58]	1561	1604	[61]	62	[63] Tersire
Company ALLETE, Inc.	Ticker ALE	1985,0165	2015 \$2.32	2017 \$2.39	2018 \$2.45	2019 \$2.53	2020 \$2.61	2021 \$2.73	\$2.85	2023 \$2.58	2024 \$3 12	2025 \$3.27	2026 \$3.42	2027 \$3.57	2028 \$372	2029 \$3.68	2030 \$4.04	2031 \$4.21	Value \$101.36
Aliant Energy Corporation	UIT		\$1.15	\$1.22	\$1.29	\$1.37	\$1.45	\$1.55	\$1.63	\$1.72	\$1.80	\$1.68	\$1.96	\$205	\$213	\$2.22 \$3.15	\$232 \$329	\$2.42 \$3.43	\$65.87 \$69.24
American Electric Power Company, Inc.	AEE AEP		\$1.71 \$2.41	\$1.77 \$2.54	\$1.63 \$2.67	\$1 89 \$2 81	\$1.95 \$2.96	\$2.08 \$3.08	\$2 22 \$3 20	\$2 35 \$3 32	\$2.49 \$3.45	\$2.64 \$3.58	\$2.78 \$3.71	\$2.90 \$3.87	\$303 \$403	\$4.20	\$4.38	\$4.57	\$11669
Avista Corporation CVS Energy Corporation	AVA CUS		\$1.35 \$1.27	\$1.39 \$1.35	\$1.43 \$1.44	\$1.43 \$1.53	\$1.52 \$1.63	\$1.61 \$1.74	\$1.71 \$1.84	\$1 62 \$1 94	\$1.92 \$2.03	\$2.03 \$2.13	\$2.14 \$2.22	\$2.23 \$2.31	\$233 \$241	\$2.43 \$2.51	\$253 \$252	\$264 \$273	\$73.45 \$75.95
DTE Energy Company	DTE		\$2.65	\$3 D4	\$3.23	\$3.44	\$3.66	\$382	\$3.97	\$4.13	\$4.28	\$4.44	\$4 59	\$4.78	\$4.99	\$5 20	\$5.42	\$5 65	\$16154
IDACORP, Inc. NorthWestern Corporation	IDA MAE		\$213 \$199	\$2.28 \$2.05	\$2.44 \$2.11	\$260 \$217	\$2.78 \$2.24	\$2.63 \$2.39	\$2.56 \$2.56	\$293 \$273	\$2.99 \$2.90	\$3.05 \$3.03	\$3.11 \$3.26	\$3.24 \$3.40	\$3.33 \$3.54	\$3.52 \$3.69	\$3 67 \$3 65	\$3 83 \$4 01	\$130.64 \$110.44
OGE Energy Corp. Other Tail Corporation	OGE		\$1.14 \$1.32	\$1.23 \$1.33	\$1 33 \$1 33	\$1.43 \$1.32	\$1.54 \$1.32	\$1.57 \$1.45	\$1.59 \$1.60	\$1.62 \$1.75	\$1.65 \$1.91	\$1.67 \$2.07	\$1.70 \$2.24	\$1.77 \$2.33	\$1.65 \$2.43	\$1.92 \$2.53	\$201 \$264	\$2.09 \$2.75	\$49.95 \$55.01
Pinnacie West Capital Corporation	PNW		\$2.61	\$2.72	\$264	\$2.96	\$3.09	\$3.20	\$3 32	\$3.45	\$3.58	\$372	\$3.87	\$4.03	\$4.21	\$4.33	\$4.57	\$4.76	\$130.68
PNM Resources, Inc. Portland General Electric Company	POR		\$0.91 \$1.21	\$1 00 \$1 29	\$1.11 \$1.37	\$1.23 \$1.45	\$1 35 \$1 54	\$1.44 \$1.63	\$1.52 \$1.72	\$1.60 \$1.51	\$1.67 \$1.90	\$1.73 \$1.93	\$1.78 \$2.07	\$1.86 \$2.16	\$1.93 \$2.25	\$202 \$234	\$2.10 \$2.44	\$2.19 \$2.55	\$60.71 \$73.51
SCANA Corporation	SCG		\$2.35	\$2 48	\$2.51	\$2.75	\$2.90	\$303	\$3.16	\$3.30	\$3.43	\$3.57	\$3.71	\$3 87	\$4 04	\$4.21	\$4.39	\$4 57	\$12432
Xoel Energy Inc	XEL		\$1.37	\$1.45	\$1 53	\$1.62	\$1.72	\$1.60	\$1 83	\$197	\$206	\$214	\$2.23	\$2 32	\$2 42	\$2.52	\$2 63	\$2.74	\$74.43
Projected Arruel Data								_	_	_	_	_	_	_			_		
Investor Cash Flows		(64) Initial	(66)	[66]	<del>[87]</del>	[68]	[65]	[70]	[71]	[72]	[73]	[74]	[75]	[76]	[7]	[78]	[79]	[50]	[31]
Company ALLETE, Inc.	Ticker ALE		5/31/16 \$0.00	12/31/16 \$1.36		5/30/18 \$2.46	6/30/19 \$2.53	6/30/20 \$2.61	6/30/21 \$2.73	6/33/22 \$2.85	6/30/23 \$2.98	6/30/24 \$3.12	6/30/25 \$3.27	6/30/26 \$3.42	\$70027 \$3.57	5/30/28 \$3.72	5/30/29 \$3.63	6/30/30 \$4.04	6/30/31 \$105.58
Alfant Energy Corporation	LL IT	(\$35.24)	\$0.00	\$0.67	\$2.36 \$1.18	\$1.29	\$1.37	\$1.45	\$155	\$1.63	\$1.72	\$1.60	\$1.53	\$1.96	\$2.05	\$213	\$2.22	\$2.32	\$53.28
American Corporation  American Electric Power Company, Inc.	AEE AEP	(\$47.50) (\$63.66)	\$0.00	\$1.00 \$1.41	\$1.75 \$2.45	\$1 83 \$2 67	\$1 89 \$2 81	\$1.95 \$2.96	\$2.08 \$3.08	\$2.22 \$3.20	\$2.35 \$3.32	\$2.49 \$3.45	\$2.64 \$3.58	\$2.78 \$3.71	\$2.90 \$3.87	\$3 09 \$4 03	\$3.15 \$4.20	\$3.29 \$4.33	\$92.67 \$121.46
Aulsta Corporation	AVA	(\$39.22)	\$0.00	\$0.79	\$1.38	\$1.43	\$1.43	\$1.52	\$1 61	\$1.71	\$1.82	\$1.92	\$203	\$214	\$2.23	\$2.33	\$2.43	\$253	\$76.09
CMS Energy Corporation DTE Energy Company	DTE	(\$40,55) (\$97.55)	\$0.00 \$0.00	\$0.74 \$1.67	\$1.31 \$2.92	\$1.44 \$3.23	\$1.53 \$3.44	\$1.63 \$3.66	\$1.74 \$3.62	\$1.84 \$3.97	\$1.94 \$4.13	\$2.03 \$4.28	\$2 13 \$4 44	\$2.22 \$4.59	\$2.31 \$4.78	\$2.41 \$4.99	\$2.51 \$5.20	\$2.62 \$5.42	\$78.69 \$167.19
IDACORP, Inc. Hort-Medium Corporation	IOA NYE	(\$72.14) (\$58.61)	\$0.00 \$0.00	\$1.25 \$1.17	\$2.17 \$2.04	\$2.44 \$2.51	\$2.60 \$2.17	\$2.78 \$2.24	\$2.83 \$2.39	\$2.88 \$2.56	\$2.93 \$2.73	\$2.99 \$2.90	\$3.05 \$3.08	\$3.11 \$3.25	\$3.24 \$3.40	\$3 33 \$3 54	\$3.52 \$3.69	\$3.67 \$3.65	\$134.67 \$114.45
OGE Energy Corp.	OGE	(\$27.90)	\$0.00	\$0.67	\$1.16	\$1.33	\$1.43	\$1.54	\$1.57	\$1.59	\$1.62	\$1 65	\$1 67	\$1.70	\$1.77	\$1.55	\$1 92	\$201	\$52 04
Otter Tail Corporation Prinade West Capital Corporation	OTTR	(\$28.40) (\$71.24)	\$0.00 \$0.00	\$0.78 \$1.53	\$1 35 \$2 66	\$1 33 \$2 84	\$1 32 \$2.95	\$1.32 \$3.09	\$1.45 \$3.20	\$1.60 \$3.32	\$1.75 \$3.45	\$1.91 \$3.58	\$2.07 \$3.72	\$2.24 \$3.87	\$233 \$403	\$2.43 \$4.21	\$2 53 \$4 38	\$2.64 \$4.57	\$57.76 \$135.45
PNM Resources, Inc	PAN	(\$32.36)	\$0.00	\$0.53	\$0.95	\$1.11	\$1.23	\$135	\$1.44	\$1.52	\$1 60	\$1 67	\$173	\$1.78	\$1.86	\$1.93	\$202	\$210	\$62.90
Portland General Electric Company SCANA Corporation	POR SCG	(\$39.34) (\$57.31)	\$0.00 \$0.00	\$0.71 \$1.38	\$1.25 \$2.41	\$1.37 \$2.61	\$1.45 \$2.75	\$1.54 \$2.90	\$1.63 \$3.03	\$1.72 \$3.16	\$1 61 \$3 30	\$1.90 \$3.43	\$1 93 \$3 57	\$207 \$371	\$2.16 \$3.87	\$2.25 \$4.04	\$2.34 \$4.21	\$2.44 \$4.39	\$76.66 \$128.89
York Erergy Inc	XEL	(\$40.14)	\$0.00	\$0 80	\$1.41	\$1 53	\$1.62	\$1.72	\$1.50	\$1 89	\$1.97	\$206	\$214	\$2.23	\$2.32	\$2.42	\$252	\$2.63	\$77.15

#### Kansas City Power & Light

#### Revised Hevert Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price (Average EPS Growth Rate Estimate in First Stage)

|  |  |  |   |   
   | (Avera  |  | <u> </u>   
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Inputs	
   | [4]<br>R±s Estr   | -3%s   | Long-Ten   
  | 7   | [6]<br>Payod R≇   | <b>19</b>  
  | [16]<br>Becatho  | [11]<br>Soldian   | [12]<br>Terminal  
   | [13]<br>Terninal   | ī  |   
   |  |  |   |
| Company  | Ticker   | Price  | Zacks   | Fret Cal  
   | Value<br>Line   | A es   | Grasin   
  | 2016  | 2020  | 2026   
  | Proof  | IRR   | P.E.Rate  
   | PEG Rati   | 0  |   
   |  |  |   |
| ALLETE, Inc  | ALE  | \$52.71  | 450%  | 3 00%   
   | 400%  | 383%   | 4.25%  
  | 66 00%  | 6400%   | 66 (0%   
  | (\$3.00)   | 8 78%   | 15.19   
   | 3 57   | =  |   
   |  |  |   |
| Aliant Energy Corporation America Corporation  | LNT<br>AEE   | \$32.61<br>\$45.24   | 6 10%   | 6.60%<br>5.20%  
   | 5 00%<br>5 00%  | 6.23%<br>5.43%   | 4 25%  
  | 64 00%<br>68 00%  | 64 00%<br>63 00%  | 64 00%<br>68 00%   
  | 51 00<br>(\$3 25)  | 8 39%<br>8 45%  | 16.13<br>16.85  
   | 3 79<br>3 97   |  |   
   |  |  |   |
| Atterioan Electric Power Company, Inc.   |  | \$50.20  | 4 90%   | 4 10%   
   | 450%  | 4 50%  | 4 25%  
  | 64 90%  | 65 00%  | 64 00%   
  | 5100   | 8 56%   | 15.43   
   | 364  |  |   
   |  |  |   |
| Avista Corporation   | ΑVA  | \$3662   | 5 00%   | 5 00%   
   | 5 00%   | 5 00%  | 4 25%  
  | 69 00%  | 63 00%  | 63 00%   
  | (53.00)  | 8 25%   | 17.67   
   | 4.16   |  |   
   |  |  |   |
| CVS Energy Corporation<br>DTE Energy Company   | CMS  | \$38 00<br>\$83 96   | 6 40%<br>5 90%  | 7 24%<br>5 36%  
   | 6 00%<br>4 50%  | 6 55%<br>5 22%   | 4 25%<br>4 25%   
  | 63 00%<br>61 00%  | 63 00%<br>64 00%  | 63.00%<br>61.00%   
  | \$2.00<br>\$2.00   | 8 25%<br>8 06%  | 16 43<br>16 71  
   | 3 87<br>3 93   |  |   
   |  |  |   |
| IDACORP, Inc   | 1DA  | \$59.33  | 4 00%   | 4 00%   
   | 3 00%   | 3 67%  | 4.25%  
  | 53 00%  | 60.00%  | 53 00%   
  | (2) (2)<br>2) 2)   | 7.43%   | 17.39   
   | 4 09   |  |   
   |  |  |   |
| North/Nestern Corporation  | NME<br>OGE   | \$56.25<br>\$27.27   | 5 00%   | 5 00%   
   | 6 50%   | 5 50%  | 4 25%  
  | 65 00%  | 59 00%  | 65 00%   
  | \$3.00   | 8 20%   | 17,17   
   | 4 04   |  |   
   |  |  |   |
| OGE Energy Corp. Other Tail Corporation  | OTTR   |  | 5 20%<br>NA   | 4 30%<br>6 00%  
   | 250%<br>600%  | 4 00%<br>6 00%   | 4 25%<br>4 25%   
  | 64 00%<br>80 00%  | 74 00%<br>63 00%  | 64 00%<br>83 00%   
  | \$2 90<br>(\$2 00)   | 8 72%<br>9 63%  | 14 92<br>15 51  
   | 3.51<br>3.65   |  |   
   |  |  |   |
| Printable West Capital Corporation   | PASY   | \$67.37  | 4 00%   | 3 73%   
   | 4 00%   | 391%   | 4.25%  
  | 64 00%  | 65 00%  | 64 00%   
  | \$2.00   | 8.27%   | 1658  
   | 3 90   |  |   
   |  |  |   |
| PhM Resources, Inc. Portland General Electric Company  | POR  | \$30.47<br>\$37.99   | 7 50%<br>6 40%  | 8.76%<br>6.57%  
   | 9 00%<br>5 50%  | 8 45%<br>6.16%   | 4 25%  
  | 51 00%<br>56 00%  | 55 00%<br>56 00%  | 51.90%<br>56.00%   
  | (\$3.00)<br>(\$3.90)   | 8.24%<br>7.99%  | 13 31<br>15 60  
   | 3.13<br>3.67   |  |   
   |  |  |   |
| SCANA Corporation  | SCG  | \$52.73  | 5 30%   | 4.80%   
   | 4 50%   | 4 87%  | 4 25%  
  | 59 00%  | 60 00%  | 59 00%   
  | 5793   | 8 37%   | 14 23   
   | 351  |  |   
   |  |  | 1   |
| Xcel Energy Inc  | )EL  | \$37.56  | 5 30%   | 5 27%   
   | 5 50%   | 5 35%  | 4 25%  
  | 62.00%  | 6300%   | 62.00%   
  | \$150  | 8 33%   | 15 85   
   | 373  | -  | | |
   |  |  |   |
|  |  |  |   |   
   |   |  |  
  |   |   |  
  |  | 8 37%   | ıt<br>1599  
   | 376  |  | | |
   |  |  |   |
|  |  |  |   |   
   |   |  |  
  |   |   |  
  | Max<br>Man   | 9 63%<br>7.43%  | 17.67<br>13.31  
   | 4.16<br>3.13   |  |   
   |  |  |   |
| Projected Annual<br>Earnings per Share   |  | <b>{14}</b>  | ្រឡ   | [18]  
   | [17]  | [18]   | [গ্ৰ   
  | [20]  | p41   | D.T.   
  |  |   |   
   |  | 137  | 1001  
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  |   | [21]  | [22]   
  | [23]   | [24]  | [29]  
   | [26]   | [27]   | [26]  
   | [29]   | [30]   | •   |
| ALLETE, Inc.   | JICAZ<br>ALE   | 2015<br>\$3.33   | 2016  | 2017<br>\$3.64  
   | 2018<br>\$3.78  | 2019<br>\$3.93   | 2020<br>\$4.08   
  | 2021<br>54.24   | 2022<br>\$4.41  | 2023   
  | 2024<br>\$4.77   | \$4.97  | \$5,18  
   | 2027<br>\$5.40   | \$5.63   | 2029<br>\$5.87  
   | 2030<br>\$5.12   | 2031<br>\$5.38   | -   |
| Aliant Energy Corporation  | υIT  | \$1.69   | \$1,79  | \$1.90  
   | \$202   | \$215  | \$2.28   
  | 5241  | \$255   | \$2.63   
  | \$281  | \$2.94  | \$307   
   | \$3.20   | \$3.33   | \$3,48  
   | \$3.62   | \$3.78   |   |
| Ameren Corporation   | AEE  | \$2.38   | \$251   | \$265   
   | \$279   | \$294  | \$3.10   
  | \$3.26  | \$3.43  | \$3.59   
  | \$3.76   | \$3.93  | \$4.09  
   | \$4.27   | \$4.45   | \$4.64  
   | \$484  | \$5.04   |   |
| American Electric Power Company, Inc.<br>Adsta Corporation   | AEP<br>AVA   | \$360<br>\$189   | \$3.76<br>\$1.98  | \$3.93<br>\$2.03  
   | \$411<br>\$219  | \$4.29<br>\$2.30   | \$4.49<br>\$2.41   
  | \$4.69<br>\$2.53  | \$4 69<br>\$2 65  | \$5 11<br>\$277  
  | \$5 33<br>\$2 90   | \$5.56<br>\$3.02  | \$5.79<br>\$3.15  
   | \$6 04<br>\$3 29   | \$6 30<br>\$3 43   | \$6.56<br>\$3.57  
   | \$6.84<br>\$3.72   | \$7.13<br>\$3.63   |   |
| CVS Energy Corporation   | cus  | \$1.89   | \$201   | \$2.15  
   | \$2.29  | \$244  | \$260  
  | \$276   | \$291   | \$3 07   
  | \$3.23   | \$3.33  | \$352   
   | \$3.67   | \$3.82   | \$3.99  
   | \$4.16   | \$433  |   |
| DTE Energy Company   | DIE  | \$4.44   | \$4.67  | \$4.92  
   | \$5 17  | \$5.44   | \$573  
  | \$601   | \$531   | \$5.61   
  | \$691  | \$7.21  | \$7.52  
   | \$7.84   | \$3.17   | \$9.52  
   | \$9.68   | 19.26  |   |
| IOACORP, inc<br>NorthWestern Corporation   | IDA<br>NAE   | \$3.87<br>\$2.90   | \$4.01<br>\$3.06  | \$4.16<br>\$3.23  
   | \$4.31<br>\$3.41  | \$4.47<br>\$3.59   | 14 63<br>13 79   
  | \$4.81<br>\$3.99  | \$4.59<br>\$4.19  | \$5.19<br>\$4.43   
  | \$5,40<br>\$4,50   | \$5.63<br>\$4.81  | \$5.87<br>\$5.01  
   | \$6.11<br>\$5.23   | \$6.37<br>\$5.45   | \$465<br>\$568  
   | \$6 93<br>\$5 92   | \$7.22<br>\$5.17   |   |
| OGE Energy Corp.   | OGE  | \$1.71   | \$1,78  | \$1.85  
   | \$1 92  | \$200  | \$2.08   
  | \$2.16  | \$2.25  | \$2.35   
  | \$2 44   | \$2.55  | 5265  
   | \$277  | \$289  | \$3.01  
   | \$3.14   | \$3.27   |   |
| Order Tail Corporation   | OTTR   | \$1.56   | \$165   | \$1.75  
   | \$1.66  | \$197  | \$2.09   
  | \$2.21  | \$233   | \$2.45   
  | \$2.56   | \$268   | 52.79   
   | \$2.91   | \$3.04   | \$3.17  
   | \$3.30   | \$3.44   |   |
| Primedie West Capital Corporation PHIM Resources, Inc.   | PNW  | \$3.92<br>\$1.64   | \$4.07<br>\$1.78  | \$4.23<br>\$1.93  
   | \$4 40<br>\$2 09  | \$4.57<br>\$2.27   | \$175<br>\$246   
  | \$4.94<br>\$2.65  | \$5.14<br>\$2.64  | \$535<br>\$302   
  | \$5.57<br>\$3.19   | \$5 80<br>\$3 35  | \$5 05<br>\$3 49  
   | \$6 30<br>\$3 64   | \$9.57<br>\$3.79   | \$6.55<br>\$3.95  
   | \$7.14<br>\$4.12   | \$7.45<br>\$4.30   |   |
| Portland General Electric Company  | POR  | \$204  | \$217   | \$2.30  
   | \$2 44  | \$259  | \$275  
  | 1291  | \$3.07  | \$3.23   
  | \$3 33   | \$354   | \$3.69  
   | \$3.65   | \$4.02   | \$4.19  
   | \$4.36   | \$4.55   |   |
| SCANA Corporation  | SCG<br>XEL   | \$3.61   | \$4.00  | \$4.19  
   | \$4.33  | \$461  | \$4.83   
  | \$5.06  | \$5.30  | \$5 54   
  | \$5.79   | \$6 04  | \$6.29  
   | \$6.56   | \$584  | \$7.13  
   | \$7.44   | \$7.75   |   |
| Xoel Energy Inc  | ACL  | \$210  | \$2.21  | \$2.33  
   | \$2.45  | \$2.59   | \$273  
  | \$2.87  | \$3.01  | \$3.15   
  | \$3.30   | \$3.45  | \$3.59  
   | \$3.75   | \$3.91   | \$407   
   | \$4.24   | \$4.42   | -   | |
| Projected Annual   |  |  |   |   
   |   |  |  
  |   |   |  
  |  |   |   
   |  |  |   
   |  |  |   |
| Dividend Payout Rate   |  |  | [31]  | [32]  
   | [33]  | [34]   | [35]   
  | [36]  | [37]  | [36]   
  | (39)   | [40]  | [41]  
   | 42   | 43   | [44]  
   | 43   | 46   | •   |
| Company  | TC3.4s   |  | 2016  | 2017  
   | 2018  | 2019   | 2020   
  | 2021  | 2022  | 2023   
  | 2024   | 2025  | 2026  
   | 2027   | 2023   | 2029  
   | 2030   | 2031   | -   |
| ALLETE, Inc.<br>Aliant Energy Corporation  | LNT  | 37,030   | 65 00%<br>64 00%  | 65 50%<br>64 00%  
   | 65 00%<br>64 00%  | 64 50%<br>64 00%   | 64 00%<br>64 00%   
  | 64 33%<br>64 00%  | 64 67%<br>64 00%  | 65 00%<br>64 00%   
  | 65 33%<br>64 00%   | 65 67 %<br>64.00%   | 65 00%<br>64 00%  
   | 66 00%<br>64 00%   | 66 00%<br>64 00%   | 66 00%<br>64 00%  
   | 55 00%<br>54 00%   | 66 00%<br>64.00%   |   |
| America Corporation  | AEE  |  | 63 00%  | 66 75%  
   | 65 50%  | 64.25%   | 63 00%   
  | 63 83%  | 64 67%  | 65 50%   
  | 65.33%   | 67.17%  | 68 00%  
   | 69 00%   | 68 00%   | 63 00%  
   | 68 00%   | 63 00%   |   |
| American Electric Power Company, Inc.<br>Avista Comporation  | AEP<br>AVA   |  | 64.00%<br>68.00%  | 64 50%<br>66 75%  
   | 65 00%<br>65 50%  | 65.50%<br>64.25%   | 66 00%<br>63 00%   
  | 65 67%<br>53 83%  | 65 33%<br>64 67%  | 65 00%<br>65 50%   
  | 64 67%<br>66 33%   | 64 33%<br>67.17%  | 64.00%<br>68.00%  
   | 64 00%<br>63 00%   | 64 00%<br>68 00%   | 64 00%<br>68 00%  
   | 64 00%<br>68 00%   | 64 00%<br>68 00%   |   |
| CVS Energy Corporation   | cvs  | - 9000   | 63 00%  | 63 00%  
   | 63 00%  | 53 00%   | 63 00%   
  | 6300%   | 6300%   | 63 00%   
  | 63 00%   | 63.00%  | 63 00%  
   | 63 00%   | 63 00%   | 63 00%  
   | 63 00%   | 63 00%   |   |
| DTE Energy Company   | DIE  |  | 61 00%  | 6175%   
   | 62,50%  | 63 26%   | 64 00%   
  | 63 50%  | 6300%   | 6250%  
  | 62 00%   | 61 50%  | 61 00%  
   | 61 00%   | 61 00%   | 61.00%  
   | 61 00%   | 61.00%   |   |
| MACORP, Inc<br>NorthWestern Corporation  | MAE  |  | 53 00%<br>65.00%  | 54 75%<br>63 50%  
   | 5650%<br>6200%  | 58 25%<br>60.50%   | 60 00%<br>59 00%   
  | 58 83 %<br>60 00 %  | 57.67%<br>61.00%  | 56 50%<br>52 00%   
  | 55 33%<br>63 00%   | 54.17%<br>64.00%  | 53 00%<br>65 00%  
   | 53 00%<br>65 00%   | 53 00%<br>65 00%   | 53 00%<br>65 00%  
   | 53.00%<br>66.00%   | 53 00%<br>65 00%   |   |
| OGE Energy Corp  | OGE  |  | 64.00%  | 66 50%  
   | 69 00%  | 71.50%   | 74 00%   
  | 72 33%  | 70 67%  | 69 00%   
  | 67 33%   | 65 67%  | 64.00%  
   | 64 00%   | 64 00%   | 6400%   
   | 64.00%   | 64.00%   |   |
| Order Tail Corporation   | OTTR   | 1241.44  | 80 00%  | 75 75%  
   | 71 50%  | 67 25%   | 63 00%   
  | 65 63%  | 63 67%  | 71.50%   
  | 74 33%   | 77.17%  | 80 00%  
   | 80 00%   | 8000%  | 80 00%  
   | 80 00%   | 80.00%   |   | |
| Pinnacie West Captal Corporation PNM Resources, Inc.   |  |  |   |   
   |   |  |  
  |   |   |  
  |  |   |   
   |  |  |   
   |  |  |   |
|  | PNW  |  | 64 00%  | 64.25%  
   | 64 50%  | 64.75%   | 65 00%   
  | 64.83%  | 53.67%  | 64 50%<br>53 00%   
  | 64.33%<br>52.33%   | 64 17%  | 64.00%<br>51.00%  
   | 64 00%<br>51 00%   | 64.00%   | 64 00%  
   | 64 00%   | 51.00%<br>51.00%   |   | |
|  | PNW<br>PNM<br>POR  |  |   |   
   |   |  |  
  |   | 53 67%<br>53 67%<br>56 00%  | 64 50%<br>53 00%<br>56 00%   
  | 52 33%<br>56 00%   | 51 67%<br>56 00%  | 64.00%<br>51.00%<br>56.00%  
   | 64 00%<br>51.00%<br>56 00%   |  |   
   |  | 54.00%<br>51.00%<br>56.00%   |   |
| Portland General Electric Company<br>SCANA Corporation   | PAM<br>POR<br>SCG  |  | 64 00%<br>51 00%<br>56 00%<br>59 00%  | 54 25%<br>52 00%<br>56 00%<br>59 25%  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%  | 64.75%<br>54.00%<br>56.00%<br>59.75%   | 65 00%<br>55 00%<br>56 00%<br>60 00%   
  | 64 83%<br>54 33%<br>56 00%<br>59 83%  | 53 67%<br>56 00%<br>59 67%  | 53 00%<br>56 00%<br>59 50%   
  | 52 33%<br>56 00%<br>59 33%   | 51 67%<br>56 00%<br>59 17%  | 51 00%<br>56 00%<br>59 00%  
   | 51.00%<br>56.00%<br>59.00%   | 64.00%<br>51.00%<br>56.00%<br>59.00%   | 64 00%<br>51,00%<br>56 00%<br>59 00%  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%   | 51 00%<br>56 00%<br>59 00%   |   |
| Portland General Electric Company<br>SCANA Corporation   | POR  |  | 64 00%<br>51 00%<br>56 00%  | 64.25%<br>52.00%<br>56.00%  
   | 64 50%<br>53 00%<br>56 00%  | 64.75%<br>54.00%<br>56.00%   | 65 00%<br>55 00%<br>56 00%   
  | 64 83%<br>54 33%<br>56 00%<br>59 83%  | 53 67%<br>56 00%<br>59 67%  | 53 00%<br>56 00%<br>59 50%   
  | 52 33%<br>56 00%   | 51 67%<br>56 00%<br>59 17%  | 51 00%<br>56 00%  
   | 51.00%<br>56.00%   | 64.00%<br>51.00%<br>56.00%   | 64 00%<br>51.00%<br>56 00%  
   | 64 00%<br>51 00%<br>56 00%   | 51 00%<br>56 00%   |   |
| Portand General Electric Company<br>SCANA Corporation<br>Yeal Energy Inc.<br>Projected Annual  | PAM<br>POR<br>SCG  |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%  | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%   
  | 64 83%<br>54 33%<br>56 00%<br>59 83%<br>62 83%  | 53 67%<br>56 00%<br>59 67%<br>62 67%  | 53 00%<br>56 00%<br>59 50%<br>62 50%   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%   | 51 67%<br>56 00%<br>59 17%<br>62 17%  | 51 00%<br>56 00%<br>59 00%<br>62 00%  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%   | 64.00%<br>51.00%<br>56.00%<br>59.00%<br>62.00%   | 64 00%<br>51,00%<br>56 00%<br>59 00%<br>62,00%  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%   | 51 00%<br>56 00%<br>59 00%<br>62 00%   |   |
| Portland General Electric Company<br>SCAL'A Corporation<br>Steel Energy Inc.<br>Projected Annual<br>Cash Flows   | PYAM<br>POR<br>SCG<br>XEL  |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%  | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%   
  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%  | 53 67%<br>56 00%<br>59 67%<br>62 67%  | 53 00%<br>56 00%<br>59 50%<br>62 50%   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%   | 51 67%<br>56 00%<br>59 17%<br>62 17%  | 51 00%<br>56 00%<br>59 00%<br>62 00%  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%   | 51 00%<br>58 00%<br>59 00%<br>62 00%   | [53]<br>Temrel  |
| Portland General Electric Company SCAMA Corporation Scel Energy Inc. Projected Annual Cash Flows Company   | PISM<br>FOR<br>SCG<br>XEL  |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>[47]  | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%<br>[43]  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>[50]   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%<br>(51)   
  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>[52]  | 53 67%<br>56 00%<br>59 67%<br>62 67%<br>[53]  | 53 00%<br>56 00%<br>59 50%<br>62 50%<br>[54]   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>55 33%   | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>[56]<br>2025  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[57]  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]   | 64.00%<br>51.00%<br>56.00%<br>59.00%<br>62.00%   | 64 00%<br>51,00%<br>56 00%<br>59 00%<br>62,00%<br>[50]  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>[61]   | 51 00%<br>56 00%<br>59 00%<br>62 00%   | Terminal<br>Value   |
| Portland General Electric Company<br>SCANA Corporation<br>SCAI Energy Inc. Projected Annual<br>Cash Flows Company ALLETE, Inc. Kash Energy Companion   | PIAM<br>POR<br>SCG<br>XEL<br>TIGHT   |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>47]<br>2016<br>\$2 32<br>\$1.15   | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%<br>[43]<br>2017<br>\$2.39<br>\$1.22  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%<br>[45]<br>2018<br>\$2 46<br>\$1 29  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>[50]<br>2019<br>\$2.53<br>\$1.37   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%<br>(51)<br>2020<br>\$2 61<br>\$1.46   
  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>[52]<br>2021<br>\$2.73<br>\$1.55  | 53 67%<br>56 00%<br>59 67%<br>62 67%<br>[53]<br>2022<br>\$2 65<br>\$1 53  | 53 00%<br>56 00%<br>59 50%<br>62 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>55 33%<br>2024<br>2024<br>21 20  | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>[56]<br>2025<br>\$3 27<br>\$1 63  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[57]<br>2026<br>\$3 42<br>\$1 96  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.57<br>\$2.05   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>[59]<br>2028<br>\$3.72<br>\$2.13   | 64 00%<br>51.90%<br>56 00%<br>59 00%<br>62.00%<br>[50]<br>2029<br>\$3.53<br>\$2.22  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>[61]<br>2030<br>\$4 04<br>\$2 32   | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[52]<br>2031<br>\$4 21<br>\$2 42   | Terninal<br>Value<br>\$96.99<br>\$60.93   |
| Portland General Electric Company SCAMA Corporation SCAMA Corporation SCAMA Corporation Cash Flows Company ALLIETE Int. Alsos Energy Corporation Avestin Corporation   | PRAM<br>FOR<br>SCG<br>XEL<br>TIGAS<br>ALE<br>LIST<br>ASE   |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>47]<br>2016<br>\$2 32<br>\$1,15<br>\$1 71   | 54 25%<br>52 00%<br>56 00%<br>59 25%<br>62 25%<br>[43]<br>2017<br>\$2.39<br>\$1.22<br>\$1.77  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%<br>[48]<br>2018<br>52 46<br>51 29<br>\$1 83  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>[50]<br>2019<br>\$2.53<br>\$1.37<br>\$1.89   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>53 00%<br>[51]<br>2020<br>\$2 61<br>\$1 48<br>\$1 95   
  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>[52]<br>2021<br>\$2.73<br>\$1.55<br>\$2.08  | 53 67%<br>56 00%<br>59 67%<br>62 67%<br>62 67%<br>2022<br>\$2 65<br>\$1 53<br>\$2 22  | 53 00%<br>56 00%<br>59 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72<br>\$2.35   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>59 3<br>2024<br>\$3,12<br>\$1,90<br>\$2,43   | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>[EG]<br>2025<br>\$3 27<br>\$1 63<br>\$2 84  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[57]<br>2026<br>\$3 42<br>\$1 95<br>\$2 78  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.57<br>\$2.05<br>\$2.90   | 6400%<br>51,00%<br>55,00%<br>59,00%<br>62,00%<br>59,00%<br>62,00%  | 64 00%<br>51 90%<br>56 00%<br>59 00%<br>62 00%<br>[50]<br>2029<br>\$358<br>\$2 22<br>\$3.15   
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>[61]<br>2030<br>\$4 04<br>\$2 32<br>\$3 29   | 51 00%<br>58 00%<br>59 00%<br>62 00%<br>62 00%<br>[52]<br>2031<br>\$4 21<br>\$2 42<br>\$3.43   | Terniral<br>Value<br>\$96.99<br>\$60.93<br>\$34.96  |
| Portland General Electric Company SCANA Corporation SCANA Corporation SCANA Company Projected Annual Cash Flows Company ALLETE: He Averal Energy Comparation Annieral Company, Inc. Annieran Electric Placet Company, Inc. Annieran Electric Placet Company, Inc. Annieran Electric Placet Company, Inc.   | PIAM<br>POR<br>SCG<br>XEL<br>TIGHT   |  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>2016<br>\$2 32<br>\$1 171<br>\$2 41   | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%<br>[43]<br>2017<br>\$2.39<br>\$1.22  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%<br>[43]<br>2018<br>\$2 46<br>\$1 83<br>\$2 57  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>[50]<br>2019<br>\$2.53<br>\$1.37   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%<br>[51]<br>2020<br>\$2 61<br>\$1 65<br>\$1 95<br>\$2 96   
  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>[52]<br>2021<br>\$2.73<br>\$1.55  | 53 67%<br>56 00%<br>59 67%<br>62 67%<br>2022<br>\$2 65<br>\$1 53<br>\$2 22<br>\$3 20  | 53 00%<br>56 00%<br>59 50%<br>62 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72   
  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>2024<br>83 12<br>\$1 50<br>\$2 43<br>\$3 45  | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>[56]<br>2025<br>\$3 27<br>\$1 63  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[57]<br>2026<br>\$3 42<br>\$1 96<br>\$2 78<br>\$3 71  
   | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.57<br>\$2.05   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>[59]<br>2028<br>\$3.72<br>\$2.13   | 64 00%<br>51.90%<br>56 00%<br>59 00%<br>62.00%<br>[50]<br>2029<br>\$3.53<br>\$2.22  
   | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>[61]<br>2030<br>\$4 04<br>\$2 32   | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[52]<br>2031<br>\$4 21<br>\$2 42   | Teminal<br>Value<br>\$96.99<br>\$60.93  |
| Portland General Electric Company SCANA Corporation Xool Energy Inc. Projected Annual Cash Flows Company ALLETE. Inc. Kheat Energy Compresion Kheaten Corporation CVUS Energy Compresion   | PIAM<br>POR<br>SCG<br>XEL<br>TIGAS<br>ALE<br>UNIT<br>ASE<br>AEP<br>AVA<br>CMS  |  | 64 00%<br>51 00%<br>56 00%<br>62 00%<br>62 00%<br>2016<br>\$2 32<br>\$1,15<br>\$1 71<br>\$2 41<br>\$1 35<br>\$1 27  | 64.25%<br>52.00%<br>56.00%<br>69.25%<br>62.25%<br>2017<br>\$2.39<br>\$1.22<br>\$1.77<br>\$2.54<br>\$1.39<br>\$1.35  
   | 64 50%<br>53 00%<br>56 00%<br>59 50%<br>62 50%<br>2018<br>2018<br>\$2 46<br>51 29<br>\$1 83<br>\$2 51<br>\$1 43<br>\$1 44   | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>2019<br>2019<br>\$2.53<br>\$1.37<br>\$1.89<br>\$2.81<br>\$1.43<br>\$1.53   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63
00%<br>[51]<br>2020<br>2220<br>\$261<br>\$1.45<br>\$1.95<br>\$2.95<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$   | 64.83%<br>54.33%<br>59.83%<br>62.83%<br>[52]<br>2021<br>\$2.73<br>\$1.55<br>\$2.08<br>\$3.161<br>\$1.74   | 5367%<br>5500%<br>5967%<br>6267%<br>2022<br>\$285<br>\$153<br>\$222<br>\$322<br>\$322<br>\$1,71<br>\$184  | 53 00%<br>55 00%<br>59 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72<br>\$2.35<br>\$3.35<br>\$1.82<br>\$1.94  
   | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>55]<br>2024<br>\$3.12<br>\$1.80<br>\$2.49<br>\$3.45<br>\$1.92<br>\$2.03  | 51 67%<br>55 00%<br>59 17%<br>62 17%<br>2025<br>\$3 27<br>\$1 63<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$3 52   
  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>2026<br>\$3 42<br>\$1 96<br>\$2 78<br>\$3.71<br>\$2.14<br>\$2.22  | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.67<br>\$2.05<br>\$2.90<br>\$3.87<br>\$2.23<br>\$2.31   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>2028<br>2028<br>2028<br>2038<br>21372<br>52.13<br>53.03<br>52.03<br>52.33<br>52.41   | 64 00%<br>51,00%<br>56 00%<br>59 00%<br>62,00%<br>2029<br>\$3,58<br>\$2,22<br>\$3,15<br>\$4,20<br>\$2,43<br>\$2,51   
  | 6400%<br>5100%<br>5600%<br>5900%<br>6200%<br>2000<br>9404<br>\$2,32<br>\$3,29<br>\$4,23<br>\$2,53<br>\$2,53<br>\$2,62  | 51 00%<br>58 00%<br>59 00%<br>62 00%<br>2031<br>\$4 21<br>\$2 42<br>\$3 43<br>\$4 57<br>\$2 64<br>\$2 73   | Value<br>\$96.99<br>\$60.93<br>\$34.98<br>\$110.41<br>\$63.58<br>\$71.18   
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| Portand General Electric Company SCANA Corporation SCANA Corporation SCANA Corporation Cash Flows Company ALLETE. In: Allest Energy Companion American Electric Reset Company, Inc. Acids Companion CVS Energy Companion CVS Energy Companion CVS Energy Company DIE Energy Company  | PISM<br>POR<br>SCG<br>XEL<br>TIGAS<br>ALE<br>UNIT<br>AEP<br>AEP<br>AVA<br>CMS<br>DIE   |  | 64 00%<br>51 00%<br>56 00%<br>69 00%<br>62 00%<br>2016<br>\$2 32<br>\$1.15<br>\$1.71<br>\$2 41<br>\$1 35<br>\$1.27<br>\$2.65  | 64.25%<br>52.00%<br>56.00%<br>69.25%<br>62.25%<br>2017<br>\$2.39<br>\$1.22<br>\$1.77<br>\$2.54<br>\$1.35<br>\$1.35<br>\$1.35  
   | 64 50%<br>53 00%<br>56 00%<br>69 50%<br>62 50%<br>2018<br>52 45<br>51 45<br>51 43<br>51 43<br>51 44<br>53 23  | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>2019<br>\$2.53<br>\$1.37<br>\$1.89<br>\$2.81<br>\$1.53<br>\$1.53<br>\$3.44   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%<br>2020<br>\$2
61<br>\$1,45<br>\$1,95<br>\$2,96<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,52<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56<br>\$1,56  | 64 83%<br>54 33%<br>56 03%<br>59 83%<br>62 83%<br>2021<br>\$2,73<br>\$1,55<br>\$2,03<br>\$3,08<br>\$1,61<br>\$1,74<br>\$3,82  | 53 67%<br>56 00%<br>59 67%<br>62 67%<br>2022<br>2022<br>\$2 65<br>\$1 63<br>\$2 22<br>\$3 20<br>\$1 71<br>\$1 84<br>\$3 97  | \$3,00%<br>\$6,00%<br>\$9,50%<br>\$2,50%<br>\$2,50%<br>\$1,72<br>\$2,35<br>\$3,32<br>\$1,82<br>\$1,94<br>\$4,13  
  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>2024<br>\$3,12<br>\$1,90<br>\$2,49<br>\$3,45<br>\$1,90<br>\$2,20<br>\$2,20<br>\$2,20<br>\$2,20<br>\$4,28   | 51 67%<br>55 00%<br>59 17%<br>62 17%<br>2025<br>\$3 27<br>\$1 63<br>\$2 64<br>\$3 52<br>\$2 64<br>\$3 52<br>\$2 64<br>\$3 52<br>\$4 44  
   | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>[57]<br>2026<br>\$3 42<br>\$1 96<br>\$2 78<br>\$3,71<br>\$2 14<br>\$2 22<br>\$4 59  | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.57<br>\$2.05<br>\$2.90<br>\$3.82<br>\$2.23<br>\$2.23<br>\$4.78   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>59.00%<br>59.00%<br>53.72<br>53.73<br>53.60<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00<br>54.00    | 64.00%<br>51.00%<br>56.00%<br>69.00%<br>62.00%<br>62.00%<br>53.53<br>53.22<br>53.15<br>54.20<br>52.43<br>52.51<br>52.51<br>52.51<br>53.50   
   | 64 00%<br>51 00%<br>56 00%<br>69 00%<br>62 00%<br>62 00%<br>63 00%<br>64 04<br>54 04  | 51 00%<br>58 00%<br>59 00%<br>62 00%<br>62 00%<br>1672<br>2031<br>\$4 21<br>\$2 42<br>\$3,43<br>\$4 57<br>\$2 65<br>\$2 73<br>\$5 65   | Value<br>\$96.99<br>\$60.93<br>\$34.96<br>\$110.41<br>\$63.58<br>\$71.18<br>\$154.77  |
| Portland General Electric Company SCANA Corporation SCANA Corporation SCANA Company Energy Inc.  Projected Annual Cash Flows Company ALLETE, He. When Energy Companeton Anstern Corporation Anstern Corporation Anistern Corporation Anistern Electric Power Company, Inc. Milesa Corporation ONE Energy Company DIE Electry COMPANY D | PIAM<br>POR<br>SCG<br>XEL<br>TIGAS<br>ALE<br>UNIT<br>ASE<br>AEP<br>AVA<br>CMS  |  | 64 00%<br>51 00%<br>56 00%<br>62 00%<br>62 00%<br>2016<br>\$2 32<br>\$1,15<br>\$1 71<br>\$2 41<br>\$1 35<br>\$1 27  | 64.25%<br>52.00%<br>56.00%<br>69.25%<br>62.25%<br>2017<br>\$2.39<br>\$1.22<br>\$1.77<br>\$2.54<br>\$1.39<br>\$1.35  | 64 50%<br>53 00%<br>53 00%<br>59 50%<br>62 50%<br>62 50%<br>2018<br>2018<br>22 45<br>51 29<br>51 83<br>52 57<br>51 43<br>51 24<br>53 23<br>52 44  
   | 64.75%<br>54.00%<br>56.00%<br>59.75%<br>62.75%<br>2019<br>2019<br>\$2.53<br>\$1.37<br>\$1.89<br>\$2.81<br>\$1.43<br>\$1.53   | 65 00%<br>55 00%<br>56 00%<br>60 00%<br>63 00%<br>[51]<br>2020<br>2220<br>\$261<br>\$1.45<br>\$1.95<br>\$2.95<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$1.55<br>\$   | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>2021<br>\$2.73<br>\$1.55<br>\$2.03<br>\$1.61<br>\$1.74<br>\$3.82<br>\$2.83   
  | 5367%<br>5500%<br>5967%<br>6267%<br>2022<br>\$265<br>\$153<br>\$222<br>\$320<br>\$1,71<br>\$184<br>\$397<br>\$263   | 53 00%<br>55 00%<br>59 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72<br>\$2.35<br>\$3.35<br>\$1.82<br>\$1.94  | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>55]<br>2024<br>\$3.12<br>\$1.80<br>\$2.49<br>\$3.45<br>\$1.92<br>\$2.03  
   | 51 67%<br>55 00%<br>59 17%<br>62 17%<br>2025<br>\$3 27<br>\$1 63<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$2 64<br>\$3 55<br>\$3 52  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>2026<br>\$3 42<br>\$1 96<br>\$2 78<br>\$3.71<br>\$2.14<br>\$2.22  | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.67<br>\$2.05<br>\$2.90<br>\$3.87<br>\$2.23<br>\$2.31  
  | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>2028<br>2028<br>2028<br>2038<br>21372<br>52.13<br>53.03<br>52.03<br>52.33<br>52.41   | 64 00%<br>51,00%<br>56 00%<br>59 00%<br>62,00%<br>2029<br>\$3,58<br>\$2,22<br>\$3,15<br>\$4,20<br>\$2,43<br>\$2,51  | 6400%<br>5100%<br>5600%<br>5900%<br>6200%<br>2000<br>9404<br>\$2,32<br>\$3,29<br>\$4,23<br>\$2,53<br>\$2,53<br>\$2,62   
  | 51 00%<br>58 00%<br>59 00%<br>62 00%<br>2031<br>\$4 21<br>\$2 42<br>\$3 43<br>\$4 57<br>\$2 64<br>\$2 73   | Value<br>Value<br>\$96.99<br>\$60.93<br>\$34.98<br>\$110.41<br>\$63.58<br>\$71.18   |
| Portland General Electric Company SCANA Corporation SCANA Corporation SCANA Company SCANA Company ALLETE, Inc. AVEAT Energy Company Aniests Co | PISM<br>FOR<br>SCG<br>XEL<br>TIGAT<br>ALE<br>UNIT<br>AEP<br>AVA<br>CMS<br>DIE<br>IDA<br>IME<br>OGE   |  | 64 00%<br>51 00%<br>56 00%<br>62 00%<br>62 00%<br>2016<br>\$2 32<br>\$1,77<br>\$2 41<br>\$1 32<br>\$2,28<br>\$2,28<br>\$2,13<br>\$1,14  | 64.25%<br>52.00%<br>56.00%<br>59.25%<br>62.25%<br>2017<br>\$2.39<br>\$1.22<br>\$1.77<br>\$2.54<br>\$1.35<br>\$3.04<br>\$2.28<br>\$2.28<br>\$2.28<br>\$2.28<br>\$1.23  | 64 50%<br>53 00%<br>55 00%<br>89 50%<br>62 50%<br>2018<br>2018<br>22 45<br>51 28<br>51 83<br>\$2 67<br>51 43<br>\$3 23<br>\$2 24<br>\$3 23<br>\$2 24<br>\$3 23<br>\$2 24<br>\$3 23<br>\$3 23<br>\$3 23<br>\$3 24<br>\$4 24<br>\$5 | 64.75%<br>64.00%<br>56.00%<br>59.75%<br>62.75%<br>2019<br>\$2.53<br>\$1.37<br>\$1.89<br>\$2.81<br>\$1.53<br>\$3.44<br>\$2.60<br>\$2.17<br>\$1.43   | 65 00%<br>55 00%<br>56 00%<br>63 00%<br>53 00%<br>53 00%<br>53 10%<br>52 20<br>51 52<br>52 26<br>51 53<br>52 26<br>52 27<br>52 28<br>52 28<br>53 52<br>54 53<br>55 52<br>56 52 28<br>57 58<br>58 58 58 58 58<br>58 58 58 58 58 58 58 58 58 58 58 58 58 5  | 64.83%<br>54.33%<br>56.00%<br>59.83%<br>62.83%<br>2021<br>\$2.73<br>\$1.55<br>\$2.03<br>\$3.08<br>\$1.61<br>\$3.08<br>\$1.61<br>\$3.08<br>\$1.61<br>\$3.08<br>\$1.61<br>\$1.74<br>\$3.82<br>\$2.83<br>\$2.83<br>\$2.83<br>\$2.83<br>\$2.83<br>\$1.55  | 5367%<br>5500%<br>5967%<br>6267%<br>2022<br>\$255<br>\$153<br>\$222<br>\$320<br>\$1,71<br>\$184<br>\$397<br>\$256<br>\$1,59   | \$3,00%<br>\$6,00%<br>\$9,50%<br>62,50%<br>[54]<br>2023<br>\$2,99<br>\$1,72<br>\$2,35<br>\$3,32<br>\$1,54<br>\$4,13<br>\$2,93<br>\$4,13<br>\$2,93<br>\$1,62   | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>55 33%<br>56 233%<br>57 33 45 45 45 45 45 45 45 45 45 45 45 45 45  | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>62 17%<br>2025<br>\$3.27<br>\$1 63<br>\$2.64<br>\$3.56<br>\$2.64<br>\$3.56<br>\$2.64<br>\$3.56<br>\$2.64<br>\$3.56<br>\$4.44<br>\$3.06<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3.16<br>\$3         | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>2026<br>33 42<br>\$1 96<br>\$2 78<br>\$3 71<br>\$2 178<br>\$2 22<br>\$4 59<br>\$3 16<br>\$3 26<br>\$3 16<br>\$3 27<br>\$3 27<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3<br>\$3   | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>(58)<br>2027<br>\$3.57<br>\$2.05<br>\$2.90<br>\$3.87<br>\$2.231<br>\$4.78<br>\$3.24<br>\$3.40<br>\$1.77  | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>2028<br>2028<br>2028<br>2039<br>2039<br>2039<br>2039<br>2039<br>2039<br>2039<br>2039   | 64.00%<br>51.00%<br>56.00%<br>59.00%<br>62.00%<br>2029<br>\$3.58<br>\$2.22<br>\$3.15<br>\$4.20<br>\$2.43<br>\$2.51<br>\$5.20<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3.52<br>\$3               | 64 00%<br>51 00%<br>55 00%<br>59 00%<br>62 00%<br>2000<br>\$4 04<br>\$2 32 29<br>\$4 33<br>\$2 52<br>\$5 42<br>\$3 29<br>\$4 36<br>\$5 42<br>\$3 29<br>\$4 36<br>\$5 42<br>\$5 42<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5<br>\$5 | 51 00%<br>56 00%<br>59 00%<br>62 | Terminal<br>Value<br>\$96.99<br>\$60.93<br>\$34.98<br>\$110.41<br>\$63.58<br>\$71.18<br>\$154.77<br>\$125.60<br>\$106.01<br>\$43.77   |
| Portand General Electric Company SCANA Corporation SCANA Corporation SCANA Company Projected Annual Cash Fiews Company ALLETE, his Allete Telegrate Company American Electric Roset Company, Inc. Allete Telegrate Company Aniel Company OACORP, his Incompany SCANA Company OACORP, his Incompany Companien SCANA Company OACORP, his Incompany SCANA Company OACORP, his Incompany OACORP O | PISM POR SCG XEL TIGE ALE UNIT ALE ALE IDE IDE IDE IDE IDE IDE IDE IDE IDE ID  |  | 6400%<br>5100%<br>5600%<br>6200%<br>6200%<br>2016<br>\$232<br>\$1,15<br>\$1,25<br>\$1,25<br>\$1,25<br>\$2,13<br>\$1,20<br>\$1,14<br>\$1,32  | 64.25%<br>52.00%<br>56.00%<br>69.25%<br>62.25%<br>2017<br>\$2.39<br>\$1.22<br>\$1.77<br>\$2.54<br>\$1.39<br>\$1.35<br>\$3.04<br>\$2.28<br>\$2.05<br>\$1.23<br>\$1.33<br>\$1.35<br>\$3.04<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3.05<br>\$3 | 64 50%<br>53 00%<br>55 00%<br>59 50%<br>62 50%<br>2018<br>52 45<br>51 29<br>51 83<br>52 47<br>51 43<br>51 44<br>53 23<br>52 44<br>52 11<br>51 33<br>51 33  
  | 64.75%<br>64.00%<br>56.00%<br>59.75%<br>62.75%<br>2019<br>\$2.53<br>\$1.37<br>\$1.89<br>\$2.81<br>\$1.43<br>\$1.53<br>\$3.44<br>\$2.60<br>\$2.17<br>\$1.43<br>\$1.32   | 65 00%<br>55 00%<br>65 00%<br>63 00%<br>53 00%<br>7511<br>2020<br>52 61<br>51 46<br>51 52<br>51 52<br>51 53<br>51 56<br>51 52<br>51 53<br>51 56<br>51 52<br>51 53<br>51 53<br>51 54<br>51 54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>5   | 64 83%<br>54 33%<br>56 00%<br>59 83%<br>62
83%<br>2021<br>\$2.73<br>\$1.55<br>\$2.08<br>\$3.08<br>\$3.08<br>\$3.161<br>\$1.74<br>\$3.82<br>\$2.83<br>\$2.23<br>\$2.23<br>\$1.57<br>\$1.55<br>\$1.55<br>\$1.61<br>\$1.74<br>\$3.82<br>\$2.83<br>\$2.23<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$1.57<br>\$ 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5367%<br>5600%<br>5967%<br>62.67%<br>2022<br>\$2.65<br>\$1.53<br>\$2.20<br>\$1.71<br>\$1.84<br>\$3.97<br>\$2.88<br>\$2.56<br>\$1.59<br>\$1.59<br>\$1.59<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50<br>\$1.50 | 53 00%<br>56 00%<br>59 50%<br>62 50%<br>[54]<br>2023<br>\$2.93<br>\$1.72<br>\$2.25<br>\$3.32<br>\$1.82<br>\$4.13<br>\$2.93<br>\$2.73<br>\$2.73<br>\$1.75  
   | 52 33%<br>56 00%<br>59 33%<br>62 33%<br>62 33%<br>559<br>2024<br>\$3.12<br>\$1.50<br>\$2.49<br>\$2.49<br>\$2.49<br>\$2.49<br>\$2.49<br>\$2.49<br>\$2.29<br>\$4.28<br>\$2.29<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.28<br>\$4.2 | 51 67%<br>56 00%<br>59 17%<br>62 17%<br>2025<br>\$3 27<br>\$1 63<br>\$2 63<br>\$2 63<br>\$2 63<br>\$2 63<br>\$2 63<br>\$3 56<br>\$3 56<br>\$3<br>\$6<br>\$3 56<br>\$3 56<br>\$3<br>\$6<br>\$3<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6<br>\$6  | 51 00%<br>56 00%<br>59 00%<br>62 00%<br>2026<br>33 42<br>31 95<br>52 74<br>52 14<br>52 24<br>53 371<br>53 370<br>53 370<br>52 24  | 51.00%<br>56.00%<br>59.00%<br>62.00%<br>[58]<br>2027<br>\$3.57<br>\$2.05<br>\$2.20<br>\$3.87<br>\$2.23<br>\$2.31<br>\$4.78<br>\$3.24<br>\$3.40<br>\$1.77<br>\$2.33   
   | 64.00%<br>51.00%<br>55.00%<br>59.00%<br>62.00%<br>2028<br>2028<br>2028<br>2028<br>2038<br>2038<br>2038<br>2038   | 64.00%<br>51.00%<br>56.00%<br>59.00%<br>62.00%<br>2029<br>33.58<br>32.22<br>\$3.15<br>\$4.20<br>\$2.43<br>\$2.51<br>\$3.52<br>\$3.52<br>\$3.69<br>\$1.92<br>\$2.53  | 64 00%<br>51 00%<br>56 00%<br>59 00%<br>62 00%<br>2000<br>\$4 04<br>\$2 32<br>\$3 29<br>\$4 33<br>\$2 53<br>\$2 53<br>\$2 53<br>\$2 53<br>\$3 67<br>\$3 67<br>\$3 65<br>\$2 64   | 51 00%<br>56 00%<br>59
00%<br>62 00%<br>62 00%<br>2031<br>\$4 21<br>\$2 42<br>\$3.43<br>\$4 57<br>\$2 64<br>\$2 73<br>\$5 65<br>\$3 83<br>\$4 01<br>\$2 75   | Terminal<br>Value<br>\$96.99<br>\$60.93<br>\$34.98<br>\$110.41<br>\$68.58<br>\$71.18<br>\$154.77<br>\$125.50<br>\$106.01<br>\$48.77<br>\$53.35  |
Portland General Electric Company SCANA Corporation SCANA Corporation SCANA Corporation Projected Annual Cash Flows Company All LETE. Intel All LETE, Intel Al	PISM FOR SCG XEL TIGAT ALE UNIT AEP AVA CMS DIE IDA IME OGE		64 00% 51 00% 56 00% 62 00% 62 00% 2016 \$2 32 \$1,77 \$2 41 \$1 32 \$2,28 \$2,28 \$2,13 \$1,14	64.25% 52.00% 56.00% 59.25% 62.25% 2017 \$2.39 \$1.22 \$1.77 \$2.54 \$1.35 \$3.04 \$2.28 \$2.28 \$2.28 \$2.28 \$1.23	64 50% 53 00% 55 00% 89 50% 62 50% 2018 2018 22 45 51 28 51 83 \$2 67 51 43 \$3 23 \$2 24 \$3 23 \$2 24 \$3 23 \$2 24 \$3 23 \$3 23 \$3 23 \$3 24 \$4 24 \$5	64.75% 64.00% 56.00% 59.75% 62.75% 2019 \$2.53 \$1.37 \$1.89 \$2.81 \$1.53 \$3.44 \$2.60 \$2.17 \$1.43	65 00% 55 00% 56 00% 63 00% 63 00% 2020 \$2 51 \$1 55 \$2 96 \$1 53 \$1 53 \$2 24 \$1 54 \$2 24 \$1 54	64.83% 54.33% 56.00% 59.83% 62.83% 2021 \$2.73 \$1.55 \$2.03 \$3.08 \$1.61 \$3.08 \$1.61 \$3.08 \$1.61 \$3.08 \$1.61 \$1.74 \$3.82 \$2.83 \$2.83 \$2.83 \$2.83 \$2.83 \$1.55	5367% 5600% 5967% 62.67% 2022 \$265 \$153 \$222 \$3.20 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59	\$3,00% \$6,00% \$9,50% 62,50% [54] 2023 \$2,99 \$1,72 \$2,35 \$3,32 \$1,54 \$4,13 \$2,93 \$4,13 \$2,93 \$1,62	52 33% 56 00% 59 33% 62 33% 55 33% 56 233% 57 33 45 45 45 45 45 45 45 45 45 45 45 45 45	51 67% 56 00% 59 17% 62 17% 62 17% 2025 \$3.27 \$1 63 \$2.64 \$3.56 \$2.64 \$3.56 \$2.64 \$3.56 \$2.64 \$3.56 \$4.44 \$3.06 \$3.16 \$3	51 00% 56 00% 59 00% 62 00% 2026 33 42 \$1 96 \$2 78 \$3 71 \$2 178 \$2 22 \$4 59 \$3 16 \$3 26 \$3 16 \$3 27 \$3 27 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3 \$3	51.00% 56.00% 59.00% 62.00% (58) 2027 \$3.57 \$2.05 \$2.90 \$3.87 \$2.231 \$4.78 \$3.24 \$3.40 \$1.77	64.00% 51.00% 55.00% 59.00% 62.00% 2028 2028 2028 2039 2039 2039 2039 2039 2039 2039 2039	64.00% 51.00% 56.00% 59.00% 62.00% 2029 \$3.58 \$2.22 \$3.15 \$4.20 \$2.43 \$2.51 \$5.20 \$3.52 \$3	64 00% 51 00% 55 00% 59 00% 62 00% 2000 \$4 04 \$2 32 29 \$4 33 \$2 52 \$5 42 \$3 29 \$4 36 \$5 42 \$3 29 \$4 36 \$5 42 \$5 42 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	51 00% 56 00% 59 00% 62	Terminal Value \$96.99 \$60.93 \$34.98 \$110.41 \$63.58 \$71.18 \$154.77 \$125.60 \$106.01 \$43.77
Portand General Electric Company SCANA Corporation SCANA Corporation SCANA Corporation SCANA Company Projected Annual Cash Flows Company ALETE, Inc. What Emergy Companedon Ansatin Company Ansatin Company Ansatin Company Ansatin Company Co	PISM POR SCIE XEL TIGE AFE AFE AVA AVA CWS DIE IOA NAS OTER PISM POR POR		6100% 5100% 5900% 5900% 6200% 2016 2016 2016 2016 2017 2016 31.71 31.35 31.71 31.35 31.27 31.32	64.25% 52.00% 56.00% 59.25% 62.25% 62.25% 2017 \$2.39 \$1.25 \$1.77 \$2.54 \$1.35 \$1.35 \$2.06 \$1.23 \$1.33 \$2.06 \$1.33 \$1.33 \$2.72 \$1.33 \$	64 50% 53 00% 55 00% 59 50% 62 50% 2018 2018 2018 22 45 51 29 51 83 52 44 52 11 51 33 52 24 52 11 51 33 52 24 52 11 51 33 51 34 51 3	64.75% 54.00% 56.00% 59.75% 62.75% 2019 2019 \$2.53 \$1.37 \$1.83 \$2.81 \$1.53 \$2.17 \$1.43 \$2.17 \$1.32 \$2.27 \$1.32 \$1.	65 00% 55 00% 69 00% 63 00% 63 00% 75 11 2020 \$2 51 \$1 55 \$2 76 \$2 24 \$1 53 \$2 24 \$1 53 \$2 24 \$1 53 \$2 30 \$3 30	64 83% 54 33% 56 00% 59 83% 62 83% 62 83% 70 2021 52 73 51 755 52 03 53 08 51 774 53 823 52 39 51 57 51 58 52 58 53 20 51 57 51 58 51 58 5	5367% 5507% 5507% 62.67% 62.67% 62.67% 62.67% 62.67% 51.63 51.71 51.63 51.71 51.63 51.71 51.63 51.71 51.63 51.71 51.63 51.71 51.63 5	\$3 00% \$6 00% \$9 50% \$2 50% \$2 50% \$2 50% \$1,72 \$2,35 \$3,32 \$1,52 \$1,52 \$1,52 \$1,52 \$1,53 \$1,73 \$2,93 \$2,73 \$1,75 \$3,45 \$1,75 \$3,165 \$1,81	5233% 5603% 5603% 6233% 6233% 6233% 6233% 5242 \$3.120 \$2.23 \$3.45 \$1.92 \$2.03 \$2.23	5167% 5917% 5917% 6217% 2025 \$327 \$328 \$3264 \$35264 \$35264 \$35264 \$3163 \$264 \$3163 \$267 \$3173 \$3167 \$3167 \$3167 \$3167 \$3167 \$3173 \$3167 \$3	51 00% 56 00% 59 00% 62 00% 62 00% 62 00% 62 00% 63 34 2 53 195 52 77 52 14 52 22 53 195 52 77 52 14 52 22 53 17 53 26 53 17 53 26 53 17 53 26 53 17 53 26 54 57 55 17 56 57 57 17 57 18 57 18 5	51.00% 56.00% 59.00% 62.00% 62.00% 2027 \$3.57 \$2.05 \$2.90 \$3.87 \$2.23 \$2.31 \$4.76 \$3.24 \$3.40 \$3.40 \$3.16 \$5.216 \$2.16	64.00% 51.00% 55.00% 59.00% 62.00% 59.00% 52.13	64.00% 51.00% 56.00% 59.00% 62.00% 2029 33.58 32.22 33.15 34.20 33.52 34.20 33.52 33.52 33.52 33.52 33.52 33.53 34.20 33.53 34.20 33.53 34.20 34	64 00% 51 00% 56 00% 59 00% 62 00% 75 11 2030 84 04 52 32 53 29 54 33 52 52 52 53 52 52 54 52 54 54 54 54 54 54 54 54 54 54 54 54 54 5	51 00% 56 00% 56 00% 62	Terminal Value \$96.99 \$60.93 \$34.98 \$110.41 \$63.58 \$71.18 \$154.77 \$125.60 \$106.01 \$43.77 \$53.35 \$123.44
Portland General Bectric Company SCANA Corporation Intel Energy Inc.  Projected Annual Eath Rows  Dempany Literature  Literatu	PISM POR SCG XEL TIGAS ALE UNI ASE AEP AVA CMS DIGA INME DIGE OFFIRM PISM		6100% 5100% 5900% 5900% 6200% 2016 2016 2232 31,15 31,15 31,15 31,15 31,25 31,25 31,15 31,	64 25% 52 00% 56 00% 59 25% 62 25% 2017 \$2.39 \$1.22 \$1.77 \$2.39 \$1.39 \$1.39 \$1.30 \$2.28 \$2.06 \$1.23 \$1	64 50% 53 00% 56 00% 59 50% 62 50% 63 50% 64	64.75% 64.00% 56.00% 56.00% 56.00% 56.00% 56.00% 56.00% 52.75% 52.53 \$1.37 \$1.83 \$1.43	65 00% 55 00% 60 00% 63 00% 63 00% 7511 2020 2020 2020 2020 2031 31.46 31.95 31.52 31.66 52.76 52.76 52.25 51.52 51.52 51.52 51.52 51.52 51.52 51.52 51.53 5	64 83% 54 33% 56 00% 59 83% 62 83% 62 83% 62 83% 62 83% 75 73 81 65 82 08 81 61 81 74 83 82 82 83 82 83 81 57 81 57 81 58 83 68 84 83 85 83 86 83 87 83 88 83 86 83 86 86 86 86 86 86 86 86 86 86 86 86 86	5367% 5600% 5967% 62.67% 2022 \$2.65 \$1.53 \$2.22 \$3.20 \$1.71 \$1.84 \$3.97 \$2.56 \$1.53 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59 \$1.59	53 00% 56 00% 59 50% 62 50% 2023 \$2.93 \$1.72 \$2.35 \$3.32 \$1.54 \$4.13 \$2.23 \$4.13 \$2.23 \$1.62 \$1.62 \$1.75 \$3.45 \$1.62 \$1.75 \$3.45	52 33% 56 00% 59 33% 62 33% 62 33% 62 33% 62 33% 53 12 51 92 52 49 52 52 53 52 52 53 52 52 53 52 52 53 52 52 53 52 53 52 53 53 53 54 52 53 54 5	51 67% 56 00% 59 17% 62 17% 2025 \$3 27 \$1 68 \$2 64 \$3 56 \$2 13 \$4 44 \$3 06 \$3 167 \$2 67 \$3 72 \$1 73 \$1 73	51 00% 56 00% 59 00% 62 00% 2026 \$3 42 \$1 96 \$2 78 \$3 71 \$2 12 \$4 59 \$3 16 \$3 17 \$3 16 \$3 17 \$3	51.00% 5600% 5900% 6200% 6200% 2027 \$3.67 \$2.00 \$3.87 \$2.231 \$4.78 \$3.24 \$3.40 \$1.77 \$2.03 \$4.00 \$1.66	64.00% 51.00% 55.00% 59.00% 62.00% 59.00% 62.00% 53.72 52.13 53.33 52.41 54.99 53.33 52.43 53.42 53.42 53.43 54.43	64.00% 51.00% 56.00% 59.00% 62.00% 2029 33.58 32.22 \$3.15 \$4.20 \$2.43 \$2.51 \$3.52 \$3	64 00% 51 00% 52 00% 59 00% 62 00% 62 00% 54 04 52 32 53 29 54 29 52 53 52 53 52 54 53 57 53 57 53 56 54 57 54 57	51 00% 56 00% 59 00% 62 00% 62 00% 2031 \$4 21 \$2 42 \$3,43 \$4.57 \$2 65 \$3 83 \$4 01 \$2 09 \$2 75 \$4 76 \$2 19	Terminal Value \$96.99 \$60.93 \$34.98 \$110.41 \$68.58 \$71.18 \$154.77 \$125.50 \$106.01 \$43.77 \$53.35 \$123.44 \$57.19
Portand General Electric Company SCAMA Corporation SCAMA Corporation SCAMA Corporation Projected Annual Cash Figwa Company All CITE. In: All Cash Figwa Company All Cite In: Assar Energy Companion American Electric Please Company, Inc. Assar Energy Corporation CWS Energy Companion DIACORD, Inc. BuschWastam Corporation DOE Energy Company DIACORD, Inc. BuschWastam Corporation DOE Task Company DIACORD, Inc. BuschWastam Corporation Princed West Capital Company Resources, Inc. Romand General Electric Company BortMan General Electric Company South C	PISM POR SCG XEL TIGAE ALE LIST ASP AVA CUS DIGA MME OFTER PIN		640% 5100% 5600% 5900% 6200% 2016 \$232 \$1,15 \$1,15 \$1,35 \$2,65 \$2,13 \$1,99 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,32 \$1,14 \$1,	64.25% 52.00% 56.00% 59.25% 62.25% 2017 \$2.39 \$1.39 \$1.35 \$1.35 \$1.35 \$1.23 \$1	64 50% 53 00% 55 00% 59 50% 62 50% 2018 2018 2018 32 46 51 29 51 83 52 67 51 43 51 43 52 44 53 23 52 44 53 23 52 44 53 23 52 54 51 53 51 53 51 53 51 53 51 53 51 53 51 54 51 54 54 54 54 54 54 54 54 54 54 54 54 54 5	64.75% 54.00% 56.00% 56.00% 59.75% 62.75% 2019 52.53 \$1.37 \$1.89 \$2.61 \$1.43 \$1.53 \$	65 00% 55 00% 55 00% 63 00% 63 00% 63 00% 7511 2020 \$2 56 \$1 52 \$1 56 \$1 56 \$1 56 \$1 52 \$1 56 \$1 56	64.83% 54.33% 56.00% 59.83% 62.83% 2021 52.73 51.55 52.08 53	5367% 55057% 55057% 62,67% 62,67% 7,000 1531 2022 2022 32,65 \$1,53 \$2,22 \$1,71 \$1,53 \$1,71 \$1,53 \$1,71 \$1,53	53 00% 56 00% 59 50% 62 50% 2023 \$2 93 \$1,72 \$2.35 \$3,32 \$1,94 \$4,13 \$2,93 \$1,62 \$1,62 \$1,62 \$1,62 \$1,63 \$1,	5233% 5600% 5933% 6233% 6233% 6233% 6233% 5243 53452 5293 5429 5293 5429 5429 5429 5429 5429 5429 5429 5429	5167% 5917% 5917% 6217% 6217% 2025 \$327 \$163 \$226 \$327 \$153 \$2213 \$2013	51 00% 56 00% 59 00% 62 00% 62 00% 62 00% 63 3 42 51 96 52 73 52 14 52 24 53 32 14 52 22 53 32 16 53 32 16 53 32 17 52 14 53 26 53 71 53 26 53 71 53 26 53 71 53 26 53 71 53 26 53 71 53 71 53 71 53 71	51.00% 56.00% 59.00% 62.00% 62.00% 2027 \$3.57 \$2.05 \$2.90 \$3.87 \$2.23 \$2.31 \$4.78 \$3.24 \$1.77 \$2.33 \$4.03 \$1.65 \$2.16 \$3.67	64.00% 51.00% 56.00% 59.00% 62.00% 208 208 208 208 208 208 209 208 208 208 208 208 208 208 208 208 208	64.00% 51.00% 56.00% 59.00% 62.00% 2009 \$3.58 \$2.22 \$3.15 \$4.20 \$2.43 \$5.20 \$3.55 \$1.92 \$2.53 \$4.33 \$5.33 \$4.33 \$5.33 \$4.33 \$5	64 00% 51 00% 56 00% 59 00% 62 00% 2000 34 04 52 32 53 43 52 53 52 53 52 54 52 54 53 65 54 67 52 10 52 10 52 10 52 10 52 10 53 10 54	51 00% 56 00% 59 00% 62	Terninal Value 596 99 \$60 93 \$84.98 \$110.41 \$68.58 \$71.18 \$154.77 \$12560 \$10501
Portland General Electric Company SCANA Corporation Intel Energy Inc.  Projected Annual Lash Rows  Dempany LILETE, Inc. Waster Energy Corporation Investion Electric Power Company, Inc. Waster Energy Corporation Investion Electric Power Company, Inc. Waster Energy Corporation CWS Energy Corporation CWS Energy Corporation DACORP, Inc. Both Waster Company DACORP, Inc. Both Waster Corporation DACORP, Inc. Both Tell Company SOXIVA Corporation Defended Annual Data	PISM POR SCG XEL TIGAE ALE LIST ASP AVA CUS DIGA MME OFTER PIN		640% 5100% 5900% 6200% 6200% 2016 \$235 \$1.15 \$1.71 \$241 \$1.35 \$1.25 \$2.65 \$2.13 \$1.54 \$1.55 \$1.14 \$1.35 \$2.65 \$2.13 \$1.55 \$1.14 \$1.35 \$1.14 \$1.35 \$1.25 \$1.3	64.25% 52.00% 55.00% 59.25% 62.25% 62.25% 62.25% 143 2017 \$1.22 \$1.77 \$2.54 \$1.39 \$1.39 \$1.39 \$1.22 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.24 \$1.25 \$1	64 50% 53 00% 56 00% 59 50% 62 50% 2018 2018 2018 32 45 31 29 31 83 32 52 44 32 11 31 33 31 33 31 28 31 31 31 31 31 31 3	64.75% 64.05% 56.00% 59.75% 62.75% 2019 \$2.53 \$1.37 \$2.53 \$1.37 \$1.43 \$1.53 \$2.60 \$2.17 \$1.43 \$1.43 \$1.25	65 00% 55 00% 55 00% 60 00% 63 00% 2020 2020 2020 2021 2021 2020 2021 20	64.83% 59.03% 59.03% 59.83% 62.83% 62.83% 62.83% 62.83% 62.83% 62.83% 63.65 63	5367% 5500% 55057% 6267% 6267% 6267% 7265 \$153 \$153 \$153 \$153 \$153 \$153 \$153 \$15	53 00% 53 00% 59 50% 62	5233% 560% 560% 5633% 6233	5167% 5500% 5917% 6217% 6217% 2025 \$327 \$163 \$2213 \$424 \$358 \$213 \$444 \$306 \$1,67 \$3,72 \$1,73 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1,57 \$1,56 \$1	51 00% 55 00% 55 00% 52 00% 62 00% 2026 \$3 42 \$1 95 \$2 78 \$3 71 \$2 14 \$2 22 \$3 195 \$3 11 \$3 21 \$3 195 \$3 170 \$3 27 \$3 37 \$3 27 \$3 27 \$3 27 \$3 37 \$3 27 \$3 37 \$3 22 \$3 37 \$3 22 \$3 37 \$3 27 \$3 37 \$3 27 \$3 37 \$3 27 \$3 37 \$3 37 \$3 22 \$3 37 \$3 27 \$3 37 \$3 27 \$3 37 \$3 27 \$3 37 \$3	51.00% 56.00% 59.00% 62.00% 59.00% 62.00% 53.57 \$2.05 \$2.90 \$3.87 \$2.23 \$2.31 \$4.78 \$3.24 \$3.40 \$1.77 \$2.33 \$4.03 \$1.66 \$2.16 \$3.67 \$2.32	64.09% 51.09% 55.00% 59.00% 62.00% 2028 53.72 52.13 53.03 52.43 53.33 52.43 53.33 52.43 53.53 53	64.00% 55.00% 59.00% 62.00% 62.00% 62.00% 75.50	64 00% 51 00% 56 00% 59 00% 62 00% 2000 34 04 52 32 53 43 52 53 52 53 52 54 52 54 53 65 54 67 52 10 52 10 52 10 52 10 52 10 53 10 54	51 00% 58 00% 62 00% 62 00% 62 00% 62 00% 63 4 21 \$2 42 \$3 43 \$4 57 \$2 73 \$5 65 \$3 4 01 \$2 75 \$4 76 \$2 77 \$4 76 \$2 17 \$4 57 \$4 57 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$57 \$	Terninal Value \$96 59 \$60 93 \$84.98 \$110.41 \$68 58 \$71.18 \$155 77 \$125 50 \$105.07 \$133 35 \$123.44 \$57.19 \$70.99 \$115.73 \$70.12
Portand General Bectric Company SCAM Corporation road Energy Inc.  Projected Annual Lash Rows  Dempary LIGHTE Inc. Wast Energy Corporation Invarious Reduction Invario	PIAM FOR XEL	[64] IndaJ	6400% 5600% 5900% 6700% 4/7] 2016 6720% 4/7] 2016 13/32 13.15 13/31 13.25 13.2	64 25% 52 00% 56 00% 59 25% 62 25% 2017 \$2.39 \$1.27 \$1.27 \$1.27 \$1.35 \$1.35 \$1.35 \$1.35 \$1.35 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.23 \$1.24 \$1.25	64 55% 55,00% 56,00% 56,00% 56,00% 56,00% 56,00% 67	64.75% 64.05% 56.00% 59.75% 62.75% 2019 \$2.53 \$1.37 \$2.53 \$1.37 \$1.43 \$1.53 \$2.60 \$2.17 \$1.43 \$1.32 \$2.50 \$1.37 \$1.43 \$1.32	65 00% 55 00% 55 00% 69 00% 63 00% 63 00% 63 00% 63 00% 63 00% 63 00% 63 00% 64 00% 65 00%	64 83% 54 33% 56 00% 59 83% 62 83% 62 83% 62 83% 62 83% 62 83% 62 83% 63 83 83 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	5367% 5500% 5967% 62,67% 20,22 \$265 \$153 \$2,22 \$3,153 \$3,22 \$1,59 \$1,59 \$1,59 \$1,71 \$1,59 \$1,72	53 00% 59 50% 62 50% 62 50% 2023 52 93 51.72 52 35 53 32 51 52 51 53 52 73 51 62 51 52 51 53 51 53	5233% 560% 5933% 6233% 6233% 755 2024 53150 5249 5345 5345 5299 5428 5299 5428 5429 5429 5429 5429 5429 5429 5429 5429	51 67% 59 17% 59 17% 62 17% 2025 \$3 27 \$1 63 \$2.64 \$3.52 \$3.20 \$2.03 \$2.03 \$2.03 \$3.27 \$1 63 \$2.64 \$3.06 \$3.10	51 00% 55 00% 55 00% 52 00% 62 00% 2026 \$3 42 \$1 55 \$2 73 \$3 17 \$3 21 \$3 21 \$3 21 \$3 22 \$4 50 \$3 31 \$3 22 \$4 50 \$3 31 \$3 22 \$3 32 \$3 22 \$3 22	51,00%, 59,00%, 59,00%, 62,00%	640% 640% 550% 550% 620% 799 223 330 233 233 233 233 339 339 339 339 339 339	64 00% 51 20% 55 00% 59 00% 62 00% 62 00% 1501 2029 33 58 31 52 32 51 34 20 35 52 35 52 35 52 36 52 37 52 38 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 52 5	64 00% 55 00% 55 00% 59 00% 62 00% 62 00% 74 04 52 32 53 29 54 33 52 53 52 54 52 54 54 54 54 54 54 54 54 54 54 54 54 54 5	51 09% 58 00% 59 00% 62	Terninal Value Value \$56.59 \$50.93 \$50.93 \$54.98 \$110.41 \$58.58 \$711.18 \$154.77 \$125.60 \$105.01 \$43.77 \$53.35 \$105.01 \$43.77 \$53.35 \$70.12
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| Portland General Bectric Company SCANA Opposition rocal Energy Inc.  Projected Annual Loath Rows  Company Little Inc.  Wast Energy Corporation Invarious Research Company, Inc.  Wast Energy Corporation Invarious Research Company, Inc.  Wast Energy Corporation Invarious Research Company Inc.  Wast Energy Corporation Inc.  Berling Company  Berling | PIAM POR XEL UIT TICKER PICK PICK PICK PICK PICK PICK PICK PICK  | [64]<br>Initial<br>Ourfow<br>(\$52.71)<br>(\$32.61)  | 6400%<br>5600%<br>5900%<br>5900%<br>6700%<br>4/7]<br>2016<br>2026<br>2017<br>2018<br>1135<br>1135<br>1135<br>1135<br>1135<br>1135<br>1135<br>11   | 6425%<br>5600%<br>5600%<br>5600%<br>60225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6225%<br>6  | 64 50% 560% 560% 560% 560% 560% 560% 5625% 6250%
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5367%<br>5560%<br>5567%<br>6267%<br>1531<br>2022<br>3255<br>5153<br>5272<br>5320<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>5153<br>51 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| Portland General Beetric Company SCANA Corporation SCANA Corporation SCANA Corporation Projected Annual Dash Rows Dempany Life Technic Stant Energy Corporation Scant Research Posest Company, Inc. White Technic SCANA Corporation  | PISM POR XEL LITERAL CASS CONTROL CASS CONTR | [64]<br>Initial<br>Outfow<br>(\$5271)<br>(\$3261)<br>(\$4524)<br>(\$5020)<br>(\$3682)<br>(\$3300)  | 6400%<br>5600%<br>5600%<br>6700%<br>2016<br>2232<br>2016<br>1135<br>1171<br>1135<br>1132<br>1132<br>1132<br>1132<br>1132<br>1132<br>113   | 6425%<br>5600%<br>5600%<br>5600%<br>6020%<br>6020%<br>6020%<br>10122<br>10122<br>10123<br>10123<br>10124<br>10133<br>10124<br>10133<br>10124<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125<br>10125   | 64 55% 5600% 5600% 5500% 5500% 5250% 6250%  
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| Portland General Bectric Company SCANA Corporation Steel Energy Inc.  Projected Annual Lash Rows  Dempany Little The Wash Energy Corporation Invarion Report Company, Inc. Wash Energy Corporation Invarion Report Company, Inc. Wash Energy Corporation CMS Energy CMS Energ | PISM POR XEL ALET LACE AVA AVA CUS DIE AVA AVA AVA CUS DIE AVA AVA AVA AVA AVA AVA AVA AVA AVA AV  | [54]<br>Initial<br>Outfow<br>(\$5271)<br>(\$3261)<br>(\$4524)<br>(\$5020)<br>(\$3662)<br>(\$3300)<br>(\$3399)  | 6400%<br>5600%<br>5600%<br>6700%<br>4/7]<br>2018<br>32 392<br>31 1,15<br>31 7,1<br>31   | 64 25% 65 20% 65 20% 65 20% 65 20% 62 25% 62  | 64 55% 560% 560% 560% 560% 560% 560% 560%   | 64.75% 56.00%
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| Portland General Bectric Company SCANA Corporation roted Energy Inc.  Projected Annual Leath Rows  Dempany Little Time Research Company Little Time Research Pears Company Little Time Research Pears Company Little Time Research Company Little Energy Companion Little Energy Little Litt | PISM POR XEL LITERAL CASS CONTROL CASS CONTR | [54]<br>hreal<br>Outflow<br>(\$5271)<br>(\$4524)<br>(\$4520)<br>(\$3562)<br>(\$3562)<br>(\$3300)<br>(\$3562)<br>(\$4933)<br>(\$6025)   | 6400%<br>5600%<br>5600%<br>6700%<br>47]<br>2016<br>6232<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,15<br>31,1   | 64 25% 520% 56 0  | 64 55% 5600% 5600% 5500% 5500% 5250% 6250%  
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5233%<br>5503%<br>5533%<br>62.33%<br>5533%<br>62.33%<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314<br>5314   | 51 673 5 500% 59 17% 62  | 51 00% 52  
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### Kansas City Power & Light Company

#### Alternative Risk Premium Analysis Using A-Rated Utility Bond Yield Spreads

#### SUMMARY OUTPUT

Regression Statistics						
Multiple R	0.9250					
R Square	0.8556					
Adjusted R Square	0.8452					
Standard Error	0.0037					
Observations	31					

#### ANOVA

	df	SS	MS	F	Significance F
Regression	2	0.0022	0.0011	82.9234	1.72103E-12
Residual	28	0.0004	1.34031E-05		
Total	30	0.0026			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-0.0212	0.0060	-3.5101	0.0015	-0.0335	-0.0088
LN of 30-Yr Treasury	-0.0238	0.0019	-12.6283	4.42727E-13	-0.0277	-0.0200
A-Rated Spread	0.4505	0.1612	2.7939	0.0093	0.1202	0.7808

Intercept	-2.12%
LN of 30-Yr Treasury	8.57% =(-0.0238*LN(2.74%))
A-Rated Spread	0.56% =(0.4505*1.24%)
Risk Premium	7.01%
Current 30-Yr Treasury	2.74%
Cost of Equity	9.76%

#### Alternative Risk Premium Analysis Using Baa-Rated Utility Bond Yield Spreads

#### SUMMARY OUTPUT

Regression Statistics							
Multiple R	0.9207						
R Square	0.8477						
Adjusted R Square	0.8369						
Standard Error	0.0038						
Observations	31						

#### ANOVA

	df	SS	MS	F	Significance F
Regression	2	0.0022	0.0011	77.9460	3.60023E-12
Residual	28	0.0004	1.41E-05		
Total	30	0.0026			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-0.0170	0.0058	-2.9321	0.0066	-0.0288	-0.0051
LN of 30-Yr Treasury	-0.0224	0.0020	-11.1430	8.38E-12	-0.0265	-0.0183
Baa-Rated Spread	0.3443	0.1409	2.4428	0.0211	0.0556	0.6330

Intercept	-1.70%
LN of 30-Yr Treasury	8.06% =(-0.0224*LN(2.74%))
Baa-Rated Spread	0.62% =(0.3443*1.81%)
Risk Premium	6.98%
Current 30-Yr Treasury	2.74%
Cost of Equity	9.73%

#### **Accuracy of Interest Rate Forecasts** (Long-Term Treasury Bond Yields - Projected Vs. Actual)

	Publication Data				Actual Yield Projected Yield			
		Prior Quarter	Projected	Projected	in Projected	Higher (Lower)		
<u>Line</u>	Date	Actual Yield	Yield (2)	Quarter (3)	Quarter (4)	Than Actual Yield* (5)		
		(1)						
i	Dec-00	5.8%	5.8%	10,02	5.6% 5.8%	0.2% -0.2%		
2 3	Mar-01 Jun-01	5.7% 5.4%	5.6% 5.8%	2Q, 02 3Q, 02	5.2%	0.6%		
4	Sep-01	5.7%	5.9%	40,02	5.1%	0.8%		
5	Dec-01	5.5%	5.7%	10,03	5.0%	0.7%		
6	Mar-02	5.3%	5.9%	20,03	4.7%	1.2%		
7	Jun-02	5.6%	6.2%	3Q, 03	5.2%	1.0%		
8	Sep-02	5.8%	5.9%	40, 03	5.2%	0.7%		
9	Dec-02	5.2%	5.7%	1Q, 04	4.9%	0.8%		
10	Mar-03	5.1%	5.7%	20,04	5,4% 5,1%	0.3% 0.3%		
11 12	Jun-03 Sep-03	5.0% 4.7%	5.4% 5.8%	3Q, 04 4Q, 04	4.9%	0.9%		
13	Dec-03	5.2%	5.9%	10,65	4.8%	1.1%		
14	Mar-04	5.2%	5.9%	20,05	4.6%	1.4%		
15	Jun-04	4.9%	6.2%	3Q, 05	4.5%	1.7%		
16	Sep-04	5.4%	6.0%	40,05	4.8%	1.2%		
17	Dec-04	5.1%	5.8%	10,06	4.6% 5.1%	1.2% 0.5%		
18 19	Mar-05 Jun-05	4.9% 4.8%	5.6% 5.5%	2Q, 06 3Q, 06	5.0%	0.5%		
20	Sep-05	4.6%	5.2%	40,06	4.7%	0.5%		
21	Dec-05	4.5%	5.3%	10,07	4.8%	0.5%		
22	Mar-06	4.8%	5.1%	20,07	5.0%	0.1%		
23	Jun-06	4.6%	5.3%	3Q, 07	4.9%	0.4%		
24	Sep-06	5.1%	5.2%	4Q, 07	4.6%	0.6% 0.6%		
25 26	Dec-06 Mar-07	5.0% 4.7%	5.0% 5.1%	1Q, 08 2Q, 08	4.4% 4.5%	0.5%		
27	Jun-07	4.8%	5.1%	30,08	4.5%	0.7%		
28	Sep-07	5.0%	5.2%	40,08	3,7%	1.5%		
29	Dec-07	4.9%	4.8%	1Q, 09	3.5%	1.4%		
30	Mar-08	4.6%	4.8%	20,09	4.0%	0.8%		
31	Jun-08	4.4%	4.9%	30,09	4.3%	0.6% 0.6%		
32 33	Sep-08 Dec-08	4.6% 4.5%	5.1% 4.6%	4Q, 09 1Q, 10	4.3% 4.6%	0.0%		
34	Mar-09	3.7%	4.1%	20, 10	4.4%	-0.3%		
35	Jun-09	3.5%	4.6%	3Q, 10	3.9%	0.8%		
36	Sep-09	4.0%	5.0%	40, 10	4.2%	0.8%		
37	Dec-09	4.3%	5.0%	10, 11	4.6%	0.4%		
38	Mar-10	4.3%	5.2%	20, 11	4.3% 3.7%	0.9% 1.5%		
39 40	Jun-10 Sep-10	4.6% 4.4%	5.2% 4.7%	3Q, 11 4Q, 11	3.0%	1.7%		
41	Dec-10	3.9%	4.6%	10, 12	3.1%	1.5%		
42	Mar-11	4.2%	5.1%	20, 12	2.9%	2.2%		
43	Jun-11	4.6%	5.2%	3Q, 12	2.8%	2.5%		
44	Sep-11	4.3%	4.2%	40, 12	2.9%	1.3% 0.7%		
45 46	Dec-11 Mar-12	3.7% 3.0%	3.8% 3.8%	1Q, 13 2Q, 13	3.1% 3.2%	0.7%		
47	Jun-12	3.1%	3.7%	3Q, 13	3.7%	0.0%		
48	Sep-12	2.9%	3.4%	40, 13	3.8%	-0.4%		
49	Dec-12	2.8%	3.4%	1Q, 14	3.7%	-0.3%		
50	Jar-13	2.9%	3.6%	20, 14	3.4%	0.2% 0.4%		
51 52	Jun-13	3.1% 3.2%	3.7% 4.2%	3Q, 14 4Q, 14	3.3% 3.0%	1.2%		
52 53	Sep-13 Dec-13	3.7%	4.2%	10, 15	2.6%	1.7%		
54	Mar-14	3.8%	4.4%	2Q 15	2.9%	1.5%		
55	Jun-14	3.7%	4.3%	3Q 15	2.8%	1.5%		
56	Sep-14	3.4%	4.3%	4Q 15	3.0%	1.3%		
57	Dec-14	3.3%	4.0%	1Q 16	2.7%	1.3%		
58 59	Mar-15	3.0% 2.6%	3.7% 3.7%	2Q 16 3Q 16	2.6% 2.3%	1.1% 1.4%		
60	Jun-15 Jul-15	2.7%	4.0%	4Q 16	2.073	1.177		
61	Aug-15	2.9%	3.9%	4Q 16				
62	Sep-15	2.9%	3.8%	4Q 16				
63	Oct-15	2.8%	3.9%	1Q 17				
64	Nov-15	2.6%	3.8%	1Q 17				
65 66	Dec-15 Jan-15	2.5% 3.0%	3.7% 3.8%	1Q 17 2Q 17				
67	Feb-16	3.0%	3.7%	2Q 17				
68	Mar-16	3.0%	3.5%	2Q 17				
69	Apr-16	2.7%	3.6%	3Q 17				
70	May-16	2.7%	3.5%	3Q 17				
71	Jun-16	2.7%	3.4%	3Q 17				
72 73	Jul-16 Aug-16	2.7% 2.6%	3.4% 3.1%	4Q 17 4Q 17				
73 74	Sep-16	2.6%	3.1%	4Q 17				
75	Oct-16	2.3%	3.1%	1Q 18				
76	Nov-16	2.3%	3.1%	1Q 18				
77	Dec-16	2.3%	3.4%	1Q 18				

Blue Chip Financial Forecasts, Various Dates.

\* Col. 2 - Col. 4.

#### Proxy Group

		Credit	Ratings <sup>1</sup>	Common Equity Ratios		
<u>Line</u>	<u>Company</u>	<u>S&amp;P</u> (1)	Moody's (2)	SNL <sup>1</sup> (3)	Value Line <sup>2</sup> (4)	
1	ALLETE, Inc.	BBB+	A3	53.3%	53.7%	
2	Alliant Energy Corporation	A-	Baa1	46.5%	51.4%	
3	Ameren Corporation	BBB+	Baa1	47.4%	49.7%	
4	American Electric Power Company, Inc.	BBB+	Baa1	46.3%	50.2%	
5	Avista Corporation	BBB	Baa1	46.9%	50.0%	
6	CMS Energy Corporation	BBB+	Baa2	29.3%	31.4%	
7	DTE Energy Company	BBB+	Baa1	47.3%	49.8%	
8	IDACORP, Inc.	BBB	Baa1	54.0%	54.4%	
9	NorthWestern Corporation	BBB	A3	44.1%	46.9%	
10	OGE Energy Corp.	Α-	A3	54.8%	55.7%	
11	Pinnacle West Capital Corporation	A-	A3	53.7%	57.0%	
12	PNM Resources, Inc.	BBB+	Baa3	40.6%	45.5%	
13	Portland General Electric Company	BBB	A3	50.7%	52.2%	
14	SCANA Corporation	BBB+	Baa3	45.5%	48.1%	
15	Xcel Energy Inc.	A-	A3	43.3%	45.9%	
16	Average	BBB+	Baa1	46.9%	49.5%	
17	Kansas City Power & Light Company	BBB+	Baa1		49.9%³	

Sources:

<sup>&</sup>lt;sup>1</sup> SNL Financial, Downloaded on December 16, 2016.

<sup>&</sup>lt;sup>2</sup> The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

<sup>&</sup>lt;sup>3</sup> Bryant Direct at 6.

### Consensus Analysts' Growth Rates

		Zac	cks	SI	VL.	Reu	ters	Average of	
		Estimated	Number of	Estimated	Number of	Estimated	Number of	Growth	
<u>Line</u>	<u>Company</u>	Growth %1	<b>Estimates</b>	Growth %2	<b>Estimates</b>	Growth %3	<b>Estimates</b>	<u>Rates</u>	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1	ALLETE, Inc.	5.50%	N/A	6.00%	1	5.00%	1	5.50%	
2	Alliant Energy Corporation	5.50%	N/A	7.90%	1	6.00%	1	6.47%	
3	Ameren Corporation	6.50%	N/A	7.00%	2	5.65%	2	6.38%	
4	American Electric Power Company, Inc.	5.40%	N/A	3.10%	5	1.89%	1	3.46%	
5	Avista Corporation	5.30%	N/A	5.30%	1	5.65%	2	5.42%	
6	CMS Energy Corporation	6.00%	N/A	7.20%	3	7.26%	2	6.82%	
7	DTE Energy Company	5.80%	N/A	5.40%	4	5.63%	3	5.61%	
8	IDACORP, Inc.	4.30%	N/A	4.40%	2	4.10%	2	4.27%	
9	NorthWestern Corporation	5.00%	N/A	4.70%	3	4.50%	2	4.73%	
10	OGE Energy Corp.	5.30%	N/A	5.40%	2	4.00%	1	4.90%	
11	Pinnacle West Capital Corporation	4.70%	N/A	4.90%	5	4.63%	3	4.74%	
12	PNM Resources, Inc.	6.80%	N/A	7.00%	4	6.85%	2	6.88%	
13	Portland General Electric Company	6.30%	N/A	5.90%	3	6.67%	3	6.29%	
14	SCANA Corporation	5.50%	N/A	6.10%	3	6.03%	3	5.88%	
15	Xcel Energy Inc.	5.40%	N/A	5.10%	4	5.65%	3	5.38%	
16	Average	5.55%	N/A	5.69%	3	5.30%	2	5.52%	

Sources:

<sup>&</sup>lt;sup>1</sup> Zacks Elite, http://www.zackselite.com/, downloaded on December 16, 2016.

<sup>&</sup>lt;sup>2</sup> SNL Interactive, http://www.snl.com/, downloaded on December 16, 2016.

<sup>&</sup>lt;sup>3</sup> Reuters, http://www.reuters.com/, downloaded on December 16, 2016.

# Constant Growth DCF Model (Consensus Analysts' Growth Rates)

<u>Line</u>	<u>Company</u>	13-Week AVG Stock Price <sup>1</sup> (1)	Analysts' <u>Growth<sup>2</sup></u> (2)	Annualized <u>Dîvidend<sup>3</sup></u> (3)	Adjusted <u>Yield</u> (4)	Constant Growth DCF (5)
1	ALLETE, Inc.	\$60.61	5.50%	\$2.08	3.62%	9.12%
2	Alliant Energy Corporation	\$37.16	6.47%	\$1.18	3.38%	9.85%
3	Ameren Corporation	\$49.29	6.38%	\$1.76	3.80%	10.18%
4	American Electric Power Company, Inc.	\$62.03	3.46%	\$2.36	3.94%	7.40%
5	Avista Corporation	\$40.82	5.42%	\$1.37	3.54%	8.95%
6	CMS Energy Corporation	\$41.14	6.82%	\$1.24	3.22%	10.04%
7	DTE Energy Company	\$93.97	5.61%	\$3.30	3.71%	9.32%
8	IDACORP, Inc.	\$76.99	4.27%	\$2.20	2.98%	7.25%
9	NorthWestern Corporation	\$56.57	4.73%	\$2.00	3.70%	8.44%
10	OGE Energy Corp.	\$31.39	4.90%	\$1.21	4.04%	8.94%
11	Pinnacle West Capital Corporation	\$75.02	4.74%	\$2.50	3.49%	8.23%
12	PNM Resources, Inc.	\$32.45	6.88%	\$0.88	2.90%	9.78%
13	Portland General Electric Company	\$42.27	6.29%	\$1.28	3.22%	9.51%
14	SCANA Corporation	\$71.35	5.88%	\$2.30	3.41%	9.29%
15	Xcel Energy Inc.	\$40.23	5.38%	\$1.36	3.56%	8.95%
16	Average	\$54.09	5.52%	\$1.80	3.50%	9.02%
17	Median					9.12%

Sources

<sup>&</sup>lt;sup>1</sup> SNL Financial, Downloaded on December 17, 2016.

<sup>&</sup>lt;sup>2</sup> Schedule MPG-R-5.

<sup>&</sup>lt;sup>3</sup> The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

#### Payout Ratios

		Dividend	s Per Share	Earnings	s Per Share	Payout Ratio	
Line	Company	<u>2015</u>	<u>Projected</u>	<u>2015</u>	Projected	2015	Projected
		(1)	(2)	(3)	(4)	(5)	(6)
1	ALLETE, Inc.	\$2.02	\$2.40	\$3.38	\$3.75	59.76%	64.00%
2	Alliant Energy Corporation	\$1.10	\$1.50	\$1.69	\$2.45	65.09%	61.22%
3	Ameren Corporation	\$1.66	\$2.05	\$2.38	\$3.25	69.75%	63.08%
4	American Electric Power Company, Inc.	\$2.15	\$2.75	\$3.59	\$4.50	59.89%	61.11%
5	Avista Corporation	\$1.32	\$1.60	\$1.89	\$2.50	69.84%	64.00%
6	CMS Energy Corporation	\$1.16	\$1.60	\$1.89	\$2.50	61.38%	64.00%
7	DTE Energy Company	\$2.84	\$4.00	\$4.45	\$6.25	63.82%	64.00%
8	IDACORP, Inc.	\$1.92	\$2.70	\$3.87	\$4.50	49.61%	60.00%
9	NorthWestern Corporation	\$1.92	\$2.32	\$2.90	\$4.00	66.21%	58.00%
10	OGE Energy Corp.	\$1.05	\$1.65	\$1.69	\$2.25	62.13%	73.33%
11	Pinnacle West Capital Corporation	\$2.44	\$3.10	\$3.92	\$4.75	62.24%	65.26%
12	PNM Resources, Inc.	\$0.80	\$1.30	\$1.64	\$2.35	48.78%	55.32%
13	Portland General Electric Company	\$1.18	\$1.60	\$2.04	\$2.75	57.84%	58.18%
14	SCANA Corporation	\$2.18	\$2.80	\$3.81	\$4.75	57.22%	58.95%
15	Xcel Energy Inc.	\$1.28	\$1.70	\$2.10	\$2.75	60.95%	61.82%
16	Average	\$1.67	\$2.20	\$2.75	\$3.55	60.97%	62.15%

Source:

The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

#### Sustainable Growth Rate

		3 to 5 Year Projections Sus							Sustainable			
		Dividends	Earnings	Book Value	Book Value		Adjustment	Adjusted	Payout	Retention	Internal	Growth
Line	Company	Per Share	Per Share	Per Share	Growth	ROE	Factor	ROE	Ratio	Rate	<b>Growth Rate</b>	Rate
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	ALLETE, Inc.	\$2.40	\$3.75	\$43.00	3.01%	8.72%	1.01	8.85%	64.00%	36.00%	3.19%	3.70%
2	Alliant Energy Corporation	\$1.50	\$2.45	\$20.00	4.04%	12.25%	1.02	12.49%	61.22%	38.78%	4.84%	5.19%
3	Ameren Corporation	\$2,05	\$3.25	\$34.00	3.50%	9.56%	1.02	9.72%	63.08%	36.92%	3,59%	3.59%
4	American Electric Power Company, Inc.	\$2.75	\$4.50	\$41.75	2.76%	10.78%	1.01	10.93%	61,11%	38.89%	4.25%	4.28%
5	Avista Corporation	\$1.60	\$2.50	\$28.50	3.05%	8.77%	1.01	8,90%	64.00%	36.00%	3.21%	4.08%
6	CMS Energy Corporation	\$1.60	\$2.50	\$19.50	6.53%	12.82%	1.03	13.23%	64.00%	36.00%	4.76%	6.22%
7	DTE Energy Company	\$4.00	\$6.25	\$60.50	4,36%	10.33%	1.02	10.55%	64.00%	36.00%	3.80%	4.56%
8	IDACORP, Inc.	\$2.70	\$4.50	\$49,50	3.90%	9.09%	1.02	9.26%	60.00%	40.00%	3.71%	3.85%
9	NorthWestern Corporation	\$2.32	\$4.00	\$40.00	3.78%	10.00%	1.02	10.19%	58.00%	42.00%	4.28%	4.66%
10	OGE Energy Corp.	\$1.65	\$2.25	\$19.75	3,46%	11.39%	1.02	11,59%	73.33%	26.67%	3.09%	3.25%
11	Pinnacle West Capital Corporation	\$3.10	\$4.75	\$49.00	3.48%	9,69%	1.02	9.86%	65.26%	34.74%	3.42%	3,79%
12	PNM Resources, Inc.	\$1.30	\$2.35	\$25.50	4.18%	9.22%	1.02	9.40%	55.32%	44.68%	4.20%	4.25%
13	Portland General Electric Company	\$1.60	\$2.75	\$30.25	3.53%	9.09%	1.02	9.25%	58.18%	41.82%	3.87%	4.02%
14	SCANA Corporation	\$2.80	\$4.75	\$47.75	4.62%	9.95%	1.02	10.17%	58,95%	41.05%	4.18%	4.79%
15	Xcel Energy Inc.	\$1.70	\$2.75	\$25.50	4.07%	10.78%	1.02	11.00%	61.82%	38.18%	4.20%	4.22%
16	Average	\$2,20	\$3.55	\$35.63	3,88%	10.16%	1.02	10.36%	62.15%	37.85%	3.91%	4.30%

#### Sources and Notes:

Cols. (1), (2) and (3): The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

Col. (4): [ Col. (3) / Page 2 Col. (2) ] ^ (1/5) - 1.

Col. (5); Col. (2) / Col. (3).

Col. (6); [2\*(1+Col. (4))]/(2+Col. (4)).

Col. (7): Col. (6) \* Col. (5).

Col. (7). Col. (6) Col. (2). Col. (8): Col. (1) / Col. (2). Col. (9): 1 - Col. (8). Col. (10): Col. (9) \* Col. (7). Col. (11): Col. (10) + Page 2 Col. (9).

#### Sustainable Growth Rate

<u>Line</u>	Company	13-Week Average <u>Stock Price<sup>1</sup></u> (1)	2015 Book Value Per Share <sup>2</sup> (2)	Market to Book <u>Ratio</u> (3)	Commor Outstanding 2015 (4)	Shares g (in Millions) <sup>2</sup> 3-5 Years (5)	Growth (6)	S Factor <sup>3</sup> (7)	V Factor <sup>4</sup> (8)	<u>S*V</u> (9)
1	ALLETE, Inc.	\$60.61	\$37.07	1.64	49.10	51.10	0.80%	1.31%	38.84%	0.51%
2	Alliant Energy Corporation	\$37.16	\$16.41	2.26	226,92	230.00	0.27%	0.61%	55.84%	0.34%
3	Ameren Corporation	\$49.29	\$28.63	1.72	242.63	242.63	0.00%	0.00%	41.92%	0.00%
4	American Electric Power Company, Inc.	\$62.03	\$36.44	1.70	491,05	492.00	0.04%	0.07%	41.26%	0.03%
5	Avista Corporation	\$40.82	\$24.53	1.66	62.31	66.50	1,31%	2.18%	39.90%	0.87%
6	CMS Energy Corporation	\$41.14	\$14.21	2.90	277.16	288.00	0.77%	2.23%	65.46%	1.46%
7	DTE Energy Company	\$93.97	\$48.88	1.92	179.47	187.00	0.83%	1.59%	47.98%	0.76%
8	IDACORP, Inc.	\$76.99	\$40.88	1.88	50.34	50,75	0.16%	0,31%	46.90%	0.14%
9	NorthWestern Corporation	\$56,57	\$33.22	1.70	48.17	49.50	0.55%	0.93%	41.28%	0.38%
10	OGE Energy Corp.	\$31.39	\$16.66	1.88	199.70	201.50	0.18%	0.34%	46.93%	0.16%
11	Pinnacle West Capital Corporation	\$75,02	\$41.30	1,82	110,98	113,50	0.45%	0.82%	44.95%	0.37%
12	PNM Resources, Inc.	\$32.45	\$20.78	1.56	79.65	80.00	0,09%	0.14%	35.97%	0.05%
13	Portland General Electric Company	\$42.27	\$25.43	1.66	88.79	89.80	0.23%	0.38%	39.83%	0.15%
14	SCANA Corporation	\$71.35	\$38.09	1.87	142,90	148.00	0.70%	1,32%	46.61%	0.61%
15	Xcel Energy Inc.	\$40,23	\$20,89	1,93	507.54	508.00	0.02%	0.03%	48,07%	0.02%
16	Average	\$54.09	\$29,56	1.87	183,78	186.55	0.43%	0.82%	45,45%	0.39%

Sources and Notes:

<sup>&</sup>lt;sup>1</sup> SNL Financial, Downloaded on December 17, 2016.

<sup>&</sup>lt;sup>2</sup> The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

<sup>&</sup>lt;sup>3</sup> Expected Growth in the Number of Shares, Column (3) \* Column (6).

<sup>&</sup>lt;sup>4</sup> Expected Profit of Stock Investment, [1-1/Column (3)].

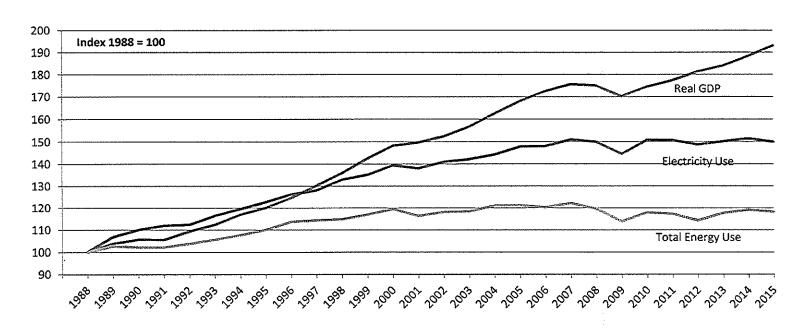
#### **Constant Growth DCF Model** (Sustainable Growth Rate)

<u>Line</u>	<u>Company</u>	13-Week AVG <u>Stock Price<sup>1</sup></u> (1)	Sustainable <u>Growth<sup>2</sup></u> (2)	Annualized <u>Dividend<sup>3</sup></u> (3)	Adjusted <u>Yield</u> (4)	Constant Growth DCF (5)
1	ALLETE, Inc.	\$60.61	3.70%	\$2.08	3.56%	7.25%
2	Alliant Energy Corporation	\$37.16	5.19%	\$1.18	3.34%	8.53%
3	Ameren Corporation	\$49.29	3.59%	\$1.76	3.70%	7.29%
4	American Electric Power Company, Inc.	\$62.03	4.28%	\$2.36	3.97%	8.24%
5	Avista Corporation	\$40.82	4.08%	\$1.37	3.49%	7.57%
6	CMS Energy Corporation	\$41.14	6.22%	\$1.24	3.20%	9.42%
7	DTE Energy Company	\$93.97	4.56%	\$3.30	3.67%	8.23%
8	IDACORP, Inc.	\$76.99	3.85%	\$2.20	2.97%	6.82%
9	NorthWestern Corporation	\$56.57	4.66%	\$2.00	3.70%	8.36%
10	OGE Energy Corp.	\$31.39	3.25%	\$1.21	3.98%	7.23%
11	Pinnacle West Capital Corporation	\$75.02	3.79%	\$2.50	3.46%	7.25%
12	PNM Resources, Inc.	\$32.45	4.25%	\$0.88	2.83%	7.08%
13	Portland General Electric Company	\$42.27	4.02%	\$1.28	3.15%	7.17%
14	SCANA Corporation	\$71.35	4.79%	\$2.30	3.38%	8.17%
15	Xcel Energy Inc.	\$40.23	4.22%	\$1.36	3.52%	7.74%
16 17	Average Median	\$54.09	4.30%	\$1.80	3.46%	7.76% 7.57%

<sup>&</sup>lt;sup>1</sup> SNL Financial, Downloaded on December 17, 2016.

 <sup>&</sup>lt;sup>2</sup> Schedule MPG-R-8, page 1.
 <sup>3</sup> The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

# Electricity Sales Are Linked to U.S. Economic Growth



Note:

1988 represents the base year. Graph depicts increases or decreases from the base year.

Sources:

U.S. Energy Information Administration Federal Reserve Bank of St. Louis

#### Multi-Stage Growth DCF Model

		13-Week AVG Annualized First Stage Second Stage Growth				Third Stage	Multi-Stage				
Line	Company	Stock Price <sup>1</sup> (1)	Dividend <sup>2</sup> (2)	Growth <sup>3</sup> (3)	<u>Year 6</u> (4)	<u>Year 7</u> (5)	<u>Year 8</u> (6)	<u>Year 9</u> (7)	<u>Year 10</u> (8)	Growth <sup>4</sup> (9)	Growth DCF (10)
1	ALLETE, Inc.	\$60.61	\$2.08	5.50%	5.29%	5.08%	4.88%	4.67%	4.46%	4.25%	8.12%
2	Alliant Energy Corporation	\$37.16	\$1.18	6.47%	6.10%	5.73%	5.36%	4.99%	4.62%	4.25%	8.06%
3	Ameren Corporation	\$49.29	\$1.76	6.38%	6.03%	5.67%	5,32%	4.96%	4.61%	4.25%	8.50%
4	American Electric Power Company, Inc.	\$62.03	\$2.36	3.46%	3.59%	3.73%	3.86%	3.99%	4.12%	4.25%	8.02%
5	Avista Corporation	\$40.82	\$1.37	5.42%	5.22%	5.03%	4.83%	4.64%	4.44%	4.25%	8.02%
6	CMS Energy Corporation	\$41.14	\$1.24	6.82%	6.39%	5.96%	5,54%	5.11%	4.68%	4.25%	7.95%
7	DTE Energy Company	\$93.97	\$3.30	5.61%	5.38%	5.16%	4.93%	4.70%	4.48%	4.25%	8.24%
8	IDACORP, Inc.	\$76.99	\$2.20	4.27%	4.26%	4.26%	4.26%	4.26%	4.25%	4.25%	7.22%
9	NorthWestern Corporation	\$56.57	\$2.00	4.73%	4.65%	4.57%	4.49%	4.41%	4.33%	4.25%	8.05%
10	OGE Energy Corp.	\$31.39	\$1.21	4.90%	4.79%	4.68%	4.58%	4.47%	4.36%	4.25%	8.43%
11	Pinnacle West Capital Corporation	\$75.02	\$2.50	4.74%	4.66%	4.58%	4.50%	4.41%	4.33%	4.25%	7.83%
12	PNM Resources, Inc.	\$32.45	\$0.88	6.88%	6.44%	6.01%	5,57%	5.13%	4.69%	4.25%	7.59%
13	Portland General Electric Company	\$42.27	\$1.28	6.29%	5.95%	5.61%	5.27%	4.93%	4.59%	4.25%	7.84%
14	SCANA Corporation	\$71.35	\$2.30	5.88%	5.61%	5.33%	5.06%	4.79%	4.52%	4.25%	7.97%
15	Xcei Energy Inc.	\$40.23	\$1.36	5.38%	5.19%	5.01%	4.82%	4.63%	4.44%	4.25%	8.04%
16 17	Average Median	\$54.09	\$1.80	5.52%	5.30%	5.09%	4.88%	4.67%	4.46%	4.25%	7.99% 8.02%

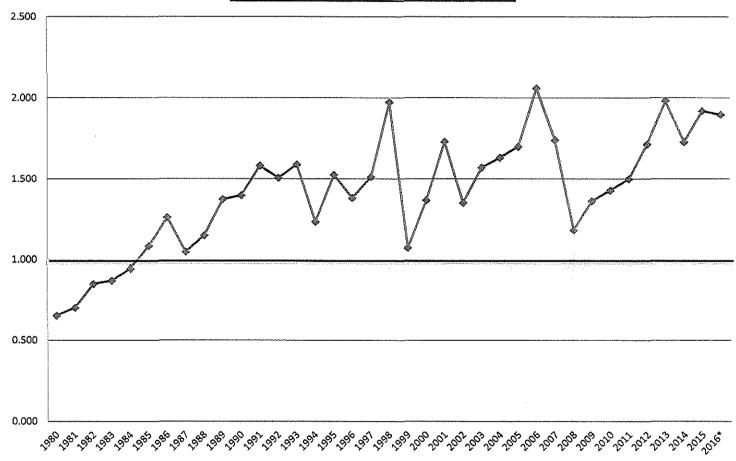
<sup>&</sup>lt;sup>1</sup> SNL Financial, Downloaded on December 17, 2016.

<sup>&</sup>lt;sup>2</sup> The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

<sup>&</sup>lt;sup>3</sup> Schedule MPG-R-5.

<sup>&</sup>lt;sup>4</sup> Blue Chip Financial Forecasts, December 1, 2016 at 14.

### **Common Stock Market/Book Ratio**



\* through June 2016

Source:

1980 - 2000: Mergent Public Utility Manual.

2001 - 2016: AUS Utility Reports, various dates.

#### Equity Risk Premium - Treasury Bond

<u>Line</u>	<u>Year</u>	Authorized Electric <u>Returns<sup>1</sup></u> (1)	30 yr. Treasury <u>Bond Yield<sup>2</sup></u> (2)	Indicated Risk <u>Premium</u> (3)	Rolling 5 - Year <u>Average</u> (4)	Rolling 10 - Year <u>Average</u> (5)
1	1986	13.93%	7.80%	6.13%		
2	1987	12.99%	8.58%	4.41%		
3	1988	12.79%	8.96%	3.83%		
4	1989	12.97%	8.45%	4.52%		
5	1990	12.70%	8.61%	4.09%	4.60%	
6	1991	12.55%	8.14%	4.41%	4.25%	
7	1992	12.09%	7.67%	4.42%	4.26%	
8	1993	11.41%	6.60%	4.81%	4.45%	
9	1994	11.34%	7.37%	3.97%	4.34%	
10	1995	11.55%	6.88%	4.67%	4.46%	4.53%
11	1996	11.39%	6.70%	4.69%	4.51%	4.38%
12	1997	11.40%	6.61%	4.79%	4.59%	4.42%
13	1998	11.66%	5.58%	6.08%	4.84%	4.65%
14	1999	10.77%	5.87%	4.90%	5.03%	4.68%
15	2000	11.43%	5.94%	5.49%	5.19%	4.82%
16	2001	11.09%	5.49%	5.60%	5.37%	4.94%
17	2002	11.16%	5.43%	5.73%	5.56%	5.07%
18	2003	10.97%	4.96%	6.01%	5.55%	5.19%
19	2004	10.75%	5.05%	5.70%	5.71%	5.37%
20	2005	10.54%	4.65%	5.89%	5.79%	5.49%
21	2006	10.34%	4.99%	5.35%	5.74%	5.56%
22	2007	10.31%	4.83%	5.48%	5.69%	5.62%
23	2008	10.37%	4.28%	6.09%	5.70%	5.62%
24	2009	10.52%	4.07%	6.45%	5.85%	5.78%
25	2010	10.29%	4.25%	6.04%	5.88%	5.83%
26	. 2011	10.19%	3.91%	6.28%	6.07%	5.90%
27	2012	10.01%	2.92%	7.09%	6.39%	6.04%
28	2013	9.81%	3.45%	6.36%	6.44%	6.07%
29	2014	9.75%	3.34%	6.41%	6.44%	6.14%
30	2015	9.60%	2.84%	6.76%	6.58%	6.23%
31	2016 <sup>3</sup>	9.64%	2.52%	7.12%	6.75%	6.41%
32	Average	11.17%	5.70%	5.47%	5.41%	5.40%
33	Minimum				4.25%	4.38%
34	Maximum				6.75%	6.41%

Sources:

<sup>&</sup>lt;sup>1</sup> Regulatory Research Associates, Inc., Regulatory Focus, Major Rate Case Decisions, January 1997 page 5, January 2011 page 3, and October 2016 page 6.

<sup>&</sup>lt;sup>2</sup> St. Louis Federal Reserve: Economic Research, http://research.stlouisfed.org/. The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

<sup>&</sup>lt;sup>3</sup> The data includes the period Jan - Sep 2016.

#### Equity Risk Premium - Utility Bond

<u>L.ine</u>	<u>Year</u>	Authorized Electric <u>Returns<sup>1</sup></u> (1)	Average "A" Rated Utility <u>Bond Yield<sup>2</sup></u> (2)	Indicated Risk <u>Premium</u> (3)	Rolling 5 - Year <u>Average</u> (4)	Rolling 10 - Year <u>Average</u> (5)
1	1986	13.93%	9.58%	4.35%		
2	1987	12.99%	10.10%	2.89%		
3	1988	12.79%	10.49%	2.30%		
4	1989	12.97%	9.77%	3.20%		
5	1990	12.70%	9.86%	2.84%	3.12%	
6	1991	12.55%	9.36%	3.19%	2.88%	
7	1992	12.09%	8.69%	3.40%	2.99%	
8	1993	11.41%	7.59%	3.82%	3.29%	
9	1994	11.34%	8.31%	3.03%	3.26%	
10	1995	11.55%	7.89%	3.66%	3.42%	3.27%
11	1996	11.39%	7.75%	3.64%	3.51%	3.20%
12	1997	11.40%	7.60%	3.80%	3.59%	3.29%
13	1998	11.66%	7.04%	4.62%	3.75%	3.52%
14	1999	10.77%	7.62%	3.15%	3.77%	3.52%
15	2000	11.43%	8.24%	3.19%	3.68%	3.55%
16	2001	11.09%	7.76%	3.33%	3.62%	3.56%
17	2002	11.16%	7.37%	3.79%	3.61%	3.60%
18	2003	10.97%	6.58%	4.39%	3.57%	3.66%
19	2004	10.75%	6.16%	4.59%	3.86%	3.81%
20	2005	10.54%	5.65%	4.89%	4.20%	3.94%
21	2006	10.34%	6.07%	4.27%	4.39%	4.00%
22	2007	10.31%	6.07%	4.24%	4.48%	4.04%
23	2008	10.37%	6.53%	3.84%	4.37%	3.97%
24	2009	10.52%	6.04%	4.48%	4.34%	4.10%
25	2010	10.29%	5.46%	4.83%	4.33%	4.26%
26	2011	10.19%	5.04%	5.15%	4.51%	4.45%
27	2012	10.01%	4.13%	5.88%	4.84%	4.66%
28	2013	9.81%	4.48%	5.33%	5.13%	4.75%
29	2014	9.75%	4.28%	5.47%	5.33%	4.84%
30	2015	9.60%	4.12%	5.48%	5.46%	4.90%
31	2016 <sup>3</sup>	9.64%	3.89%	5.75%	5.58%	5.05%
32	Average	11.17%	7.08%	4.09%	4.03%	4.00%
33	Minimum				2.88%	3.20%
34	Maximum				5.58%	5.05%

Sources:

<sup>&</sup>lt;sup>1</sup> Regulatory Research Associates, Inc., Regulatory Focus, Major Rate Case Decisions, January 1997 page 5, January 2011 page 3, and October 2016 page 6.

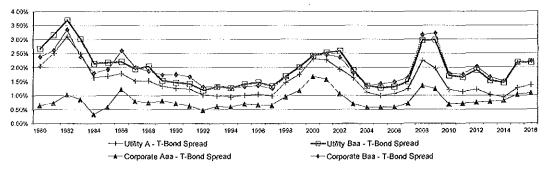
<sup>&</sup>lt;sup>2</sup> Mergent Public Utility Manual, Mergent Weekly News Reports, 2003. The utility yields for the period 2001-2009 were obtained from the Mergent Bond Record. The utility yields from 2010-2016 were obtained from http://credittrends.moodys.com/.

<sup>&</sup>lt;sup>3</sup> The data includes the period Jan - Sep 2016.

#### **Bond Yield Spreads**

			Public Utility Bond			Corporate Bond				Utility to	Utility to Corporate	
<u>Line</u>	Year	T-Bond <u>Yield<sup>1</sup></u> (1)	<u>A²</u> (2)	<u>Baa²</u> (3)	A-T-Bond <u>Spread</u> (4)	Baa-T-Bond <u>Spread</u> (5)	<u>Aaa<sup>1</sup></u> (6)	Baa <sup>1</sup> (7)	Aaa-T-Bond <u>Spread</u> (8)	Baa-T-Bond Spread (9)	Baa <u>Spread</u> (10)	A-Aaa <u>Spread</u> (11)
1	1980	11.30%	13.34%	13.95%	2.04%	2.65%	11.94%	13.67%	0.64%	2.37%	0.28%	1.40%
2	1981	13.44%	15.95%	16,60%	2.51%	3.16%	14,17%	16.04%	0.73%	2.60%	0.56%	1.78%
3	1982	12.76%	15.86%	16.45%	3.10%	3.69%	13.79%		1.03%	3.35%	0.34%	2,07%
4	1983	11.18%	13.66%	14.20%	2.48%	3.02%	12.04%	13.55%	0.86%	2.38%	0.65%	1,62%
5	1984	12.39%	14.03%	14.53%	1.64%	2.14%	12.71%	14.19%	0.32%	1.80%	0.34%	1,32%
6	1985	10.79%	12.47%	12.96%	1.68%	2.17%	11.37%	12.72%	0.58%	1.93%	0.24%	1,10%
7	1986	7.80%	9.58%	10.00%	1.78%	2.20%	9.02%	10.39%	1.22%	2.59%	-0.39%	0.56%
8	1987	8.58%	10.10%	10.53%	1.52%	1.95%	9.38%	10.58%	0.80%	2.00%	-0.05%	0.72%
9	1988	8.96%	10.49%	11.00%	1.53%	2.04%	9.71%	10.83%	0.75%	1.87%	0.17%	0.78%
10	1989	8.45%	9.77%	9.97%	1.32%	1.52%	9.26%	10.18%	0.81%	1.73%	-0.21%	0.51%
11	1990	8.61%	9.86%	10.06%	1.25%	1.45%	9.32%	10.36%	0.71%	1.75%	-0.29%	0.54%
12	1991	8.14%	9.36%	9.55%	1.22%	1.41%	8.77%	9.80%	0.63%	1.67%	-0.25%	0.59%
13	1992	7.67%	8.69%	8.86%	1.02%	1.19%	8.14%	8.98%	0.47%	1.31%	-0.12%	0.55%
14	1993	6.60%	7.59%	7.91%	0.99%	1.31%	7.22%	7.93%	0.62%	1.33%	-0.02%	0.37%
15	1994	7.37%	8.31%	8.63%	0.94%	1.26%	7.96%	8.62%	0.59%	1.25%	0.01%	0.35%
16	1995	6.88%	7.89%	8.29%	1.01%	1.41%	7.59%	8.20%	0.71%	1.32%	0.09%	0.30%
17	1996	6.70%	7.75%	8.17%	1.05%	1.47%	7.37%	8.05%	0.67%	1.35%	0.12%	0,38%
18	1997	6.61%	7.60%	7.95%	0.99%	1.34%	7.26%	7.86%	0.66%	1.26%	0.09%	0.34%
19	1998	5.58%	7.04%	7.26%	1.46%	1.68%	6.53%	7.22%	0.95%	1.64%	0.04%	0.51%
20	1999	5.87%	7.62%	7.88%	1.75%	2.01%	7.04%	7.87%	1.18%	2.01%	0.01%	0.58%
21	2000	5.94%	8.24%	8.36%	2.30%	2.42%	7.62%	8.36%	1.68%	2.42%	-0.01%	0.62%
22	2001	5.49%	7.76%	8.03%	2 27%	2.54%	7.08%	7.95%	1.59%	2.45%	0.08%	0.68%
23	2002	5.43%	7.37%	8.02%	1.94%	2.59%	6.49%	7.80%	1.06%	2.37%	0.22%	0.88%
24	2003	4.96%	6.58%	6.84%	1.62%	1.89%	5.67%	6.77%	0.71%	1.81%	0.08%	0.91%
25	2004	5.05%	6.16%	6.40%	1,11%	1.35%	5.63%	6.39%	0.58%	1.35%	0.00%	0.53%
26	2005	4.65%	5.65%	5.93%	1.00%	1.28%	5.24%	6.06%	0.59%	1.42%	-0.14%	0.41%
27	2006	4.99%	6.07%	6.32%	1.08%	1.32%	5.59%	6.48%	0.60%	1.49%	-0.16%	0.48%
28	2007	4.83%	6.07%	6.33%	1.24%	1.50%	5.56%	6.48%	0.72%	1.65%	-0.15%	0.52%
29	2008	4.28%	6.53%	7.25%	2.25%	2.97%	5.63%	7.45%	1.35%	3.17%	-0.20%	0.90%
30	2009	4.07%	6.04%	7.06%	1.97%	2.99%	5.31%	7.30%	1.24%	3.23%	-0.24%	0.72%
31	2010	4.25%	5.46%	5.96%	1.21%	1.71%	4.94%	6.04%	0.69%	1.79%	-0.08%	0.52%
32	2011	3.91%	5.04%	5.56%	1.13%	1.65%	4.64%	5.66%	0.73%	1.75%	-0.10%	0.40%
33	2012	2.92%	4.13%	4.83%	1.21%	1.91%	3.67%	4.94%	0.75%	2.01%	-0.11%	0.46%
34	2012	3.45%	4.48%	4.98%	1.03%	1,53%	4.24%	5.10%	0.79%	1.65%	-0.12%	0.24%
35	2013	3.34%	4.28%	4.80%	0.94%	1.46%	4.16%	5.10% 4.85%	0.79%	1.51%	-0.12% -0.06%	0.11%
36	2014		4.12%			1.40% 2.19%	3.89%		1.05%	2.16%	0.03%	0.1173
30 37	2015 2016 <sup>3</sup>	2.84%		5.03%	1.27%			5.00%				
3/	2016	2.52%	3.89%	4.70%	1.37%	2.18%	3,62%	4.74%	1.10%	2.22%	-0.04%	0.28%
38	Average	6.72%	8.24%	8.68%	1.52%	1.96%	7.56%	8.66%	0.84%	1.94%	0.02%	0.68%

Yield Spreads
Treasury Vs. Corporate & Treasury Vs. Utility



<sup>&</sup>lt;sup>1</sup> St. Louis Federal Reserve: Economic Research, http://research.stlouisfed.org/.

<sup>&</sup>lt;sup>2</sup> Mergent Pub‰ Utility Manual, Mergent Weekly News Reports, 2003. The utility yields for the period 2001-2009 were obtained from the Mergent Bond Record. The utlity yields from 2010-2016 were obtained from http://creditrends.moodys.com/. The data includes the period Jan - Sep 2016.

## **Treasury and Utility Bond Yields**

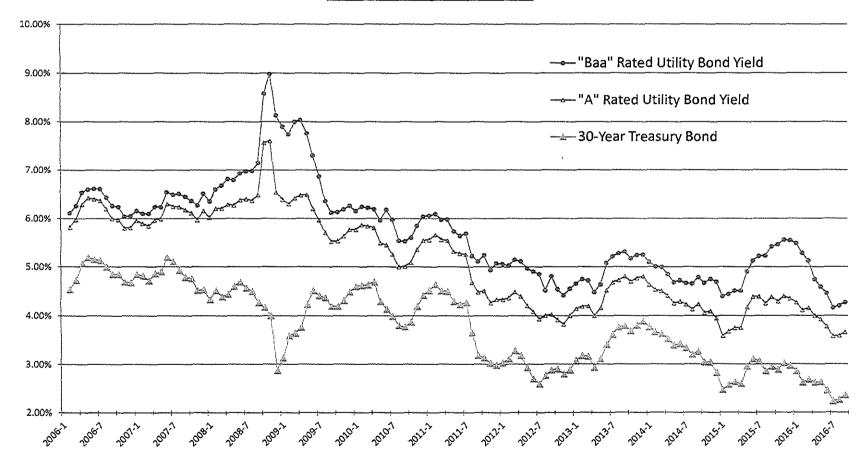
<u>Line</u>	<u>Date</u>	Treasury Bond Yield <sup>1</sup> (1)	"A" Rated Utility <u>Bond Yield<sup>2</sup></u> (2)	"Baa" Rated Utility <u>Bond Yield<sup>2</sup></u> (3)
1	12/16/16	3.19%	4.33%	4.85%
2	12/09/16	3.16%	4.32%	4.86%
3	12/02/16	3.08%	4.26%	4.79%
4	11/25/16	3.01%	4.22%	4.79%
5	11/18/16	3.01%	4.22%	4.79%
6	11/10/16	2.94%	4.12%	4.70%
7	11/04/16	2.56%	3.81%	4.38%
8	10/28/16	2.62%	3.86%	4.40%
9	10/21/16	2.48%	3.75%	4.30%
10	10/14/16	2.55%	3.83%	4.41%
11	10/07/16	2.46%	3.76%	4.33%
12	09/30/16	2.32%	3.64%	4.26%
13	09/23/16	2.34%	3.65%	4.26%
14	Average	2.75%	3.98%	4.55%
15	Spread To Treasury		1.23%	1.80%

Sources

<sup>&</sup>lt;sup>1</sup> St. Louis Federal Reserve: Economic Research, http://research.stlouisfed.org.

<sup>&</sup>lt;sup>2</sup> http://credittrends.moodys.com/.

## **Trends in Bond Yields**



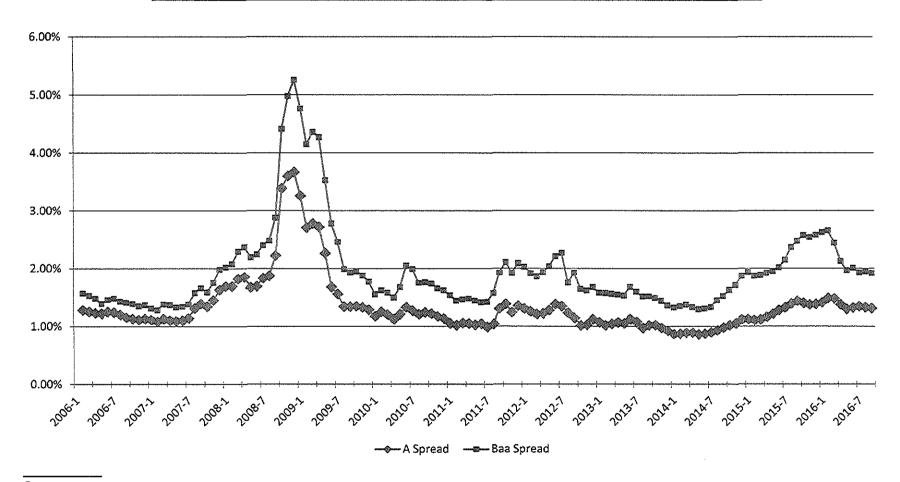
Sources:

Mergent Bond Record.

www.moodys.com, Bond Yields and Key Indicators.

St. Louis Federal Reserve: Economic Research, http://research.stlouisfed.org/

### <u>Yield Spread Between Utility Bonds and 30-Year Treasury Bonds</u>



Sources:

Mergent Bond Record.

www.moodys.com, Bond Yields and Key Indicators.

St. Louis Federal Reserve: Economic Research, http://research.stlouisfed.org/

## Value Line Beta

<u>Line</u>	<u>Company</u>	<u>Beta</u>
1	ALLETE, Inc.	0.75
2	Alliant Energy Corporation	0.70
3	Ameren Corporation	0.65
4	American Electric Power Company, Inc.	0.65
5	Avista Corporation	0.70
6	CMS Energy Corporation	0.65
7	DTE Energy Company	0.65
8	IDACORP, Inc.	0.75
9	NorthWestern Corporation	0.70
10	OGE Energy Corp.	0.90
11	Pinnacle West Capital Corporation	0.70
12	PNM Resources, Inc.	0.75
13	Portland General Electric Company	0.70
14	SCANA Corporation	0.70
15	Xcel Energy Inc.	0.60
16	Average	0.70

Source:

The Value Line Investment Survey, October 28, November 18, and December 16, 2016.

### **CAPM Return**

<u>Line</u>	<u>Description</u>	High Market Risk <u>Premium</u> (1)	Low Market Risk <u>Premium</u> (2)
1	Risk-Free Rate <sup>1</sup>	3.40%	3.40%
2	Risk Premium <sup>2</sup>	7.80%	6.00%
3	Beta <sup>3</sup>	0.70	0.70
4	CAPM	8.89%	7.62%

Blue Chip Financial Forecasts; December 1, 2016, at 2.
 Duff & Phelps, 2016 Valuation Handbook Guide to Cost of Capital at 2-4, 3-31, and 3-40.

<sup>&</sup>lt;sup>3</sup> Schedule MPG-R-17.