

COST OF CAPITAL STUDY

7.22%

YIELD CAPITALIZATION 2024 Assessment Year

APPENDIX C

Electric Industry

WEIGHTED AVERAGE COST OF CAPITAL

QUITY RATE						9.00%	
CAPITAL ASSET PRICING MODEL							PAGE
CAPM Ex Ante			8.17%				4
DIVIDEND GROWTH MODELS Sing	le Stage						
Value Line, based on Dividends	Growth		9.00%				5
Value Line, based on Earnings (Growth		8.95%				6
Value Line, based on Return on	Equity		8.65%				7
FCFE GROWTH MODEL Multi Stage			7.50%				8
					RANGE	7.5% - 9%	
EBT RATE ECURED DEBT (LEASE) RATE						6.00% 5.00%	9
IARKET CAPITAL STRUCTURE							
	60%	x	9.00%	=		5.40%	3
Equity	40%	х	6.00%	=	2.40%		3
Equity Debt	70 /0						1

SUPPORT FOR GUIDELINE COMPANIES

Washington State Department of Revenue 2024 Assessment Year Electric Industry

Capital Structure at Book Value

											-	
Company	Ticker	Beta	Fin'l Strength	P/E Ratio	Div'd Yield	Common Stock	%	Preferred Stock	%	Long Term Debt	%	Total Debt & Equity
Avista Corp	ava	0.90	B+	16.6	5.1%	2,517,900,000	49.0%			2,621,400,000	51.0%	5,139,300,000
Black Hills	bkh	1.00	B++	14.5	4.7%	3,179,000,000	45.6%			3,799,500,000	54.4%	6,978,500,000
Edison International	eix	1.00	B++	15.8	4.2%	1,242,562,500	4.0%	254,400,000	0.8%	29,532,000,000	95.2%	31,028,962,500
Idacorp Inc	ida	0.85	Α	18.4	3.3%	2,899,350,000	50.6%			2,826,200,000	49.4%	5,725,550,000
NorthWestern Corp	nwe	0.95	B+	16.8	5.0%	2,929,500,000	53.5%			2,550,800,000	46.5%	5,480,300,000
Pinnacle West Capital Corp	pnw	0.95	B++	17.7	4.9%	6,140,350,000	42.9%			8,164,400,000	57.1%	14,304,750,000
PNM Resources Inc	pnm	0.90	B+	14.1	3.6%	2,296,487,500	36.9%	11,500,000	0.2%	3,914,200,000	62.9%	6,222,187,500
Portland General Electric	por	0.90	B++	18.4	4.3%	3,430,700,000	45.7%			4,077,000,000	54.3%	7,507,700,000
Sempra Energy	sre	1.00	Α	16.5	3.2%	29,005,400,000	48.4%	2,278,000,000	3.8%	28,592,000,000	47.8%	59,875,400,000
Xcel Energy Inc	xel	0.85	Α	19.9	3.4%	17,381,700,000	41.1%			24,910,000,000	58.9%	42,291,700,000
Mean		0.93		16.9	4.2%	7,102,295,000	41.8%		1.6%	11,098,750,000	57.7%	
Harmonic Mean		0.93					22.3%		0.4%		55.6%	
Weighted Mean						71,022,950,000	38.5%	2,543,900,000	1.4%	110,987,500,000	60.1%	184,554,350,000
Median		0.93			4.3%		45.6%		0.8%		54.4%	- ,

SUPPORT FOR CAPITAL STRUCTURE Market Value

Washington State Department of Revenue

2024 Assessment Year

Electric Industry

Company	Ticker	Stock Price	Common Shares	Common Stock	%	Preferred Stock	%	Long Term Debt	%	Total Debt & Equity
Avista Corp	ava	35.74	77,000,000	2,751,980,000	55.3%	-		2,221,103,000	44.7%	4,973,083,000
Black Hills	bkh	53.27	68,000,000	3,622,360,000	46.2%	-		4,215,600,000	53.8%	7,837,960,000
(1)										
Idacorp Inc	ida	97.46	51,000,000	4,970,460,000	64.9%	-		2,684,278,000	35.1%	7,654,738,000
NorthWestern Corp	nwe	50.89	62,000,000	3,155,180,000	55.6%	-		2,521,030,000	44.4%	5,676,210,000
Pinnacle West Capit	pnw	70.94	113,500,000	8,051,690,000	51.6%	-		7,555,653,000	48.4%	15,607,343,000
PNM Resources Inc	pnm	41.15	85,850,000	3,532,727,500	62.5%	11,500,000	0.2%	2,107,588,000	37.3%	5,651,815,500
Portland General Ele	por	43.34	101,500,000	4,399,010,000	54.3%	-		3,705,000,000	45.7%	8,104,010,000
Sempra Energy	sre	74.73	646,000,000	48,275,580,000	63.4%	2,278,000,000	3.0%	25,617,000,000	33.6%	76,170,580,000
Xcel Energy Inc	xel	61.91	551,800,000	34,161,938,000	59.8%	-		22,927,000,000	40.2%	57,088,938,000
			Mean		57.1%		1.6%	·	42.6%	
			Harmonic Mean		56.5%		0.4%		41.7%	
			Weighted Mean	112,920,925,500	59.8%	2,289,500,000	1.2%	73,554,252,000	39.0%	188,764,677,500
1 -			Median		55.6%		1.6%		44.4%	
			Std Dev		6.1%		2.0%		6.6%	
		Coeffi	icient of Variation		10.7%		123.4%		15.5%	
			Target		60%				40%	100%

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(1) LIX Was all bather all	u i cilio v c	a ii oiii coiisiaciatic	/ 1111						
Edison Internationa eix	71.49	35,250,000	2,520,022,500	7.4%	254,400,000	0.7%	31,315,000,000	91.9%	34,089,422,500

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT CAPITAL ASSET PRICING MODEL

2024 Assessment Year

Ex Ante

Ke = Rf + B (Rp)

Ke =	Cost of Equity							8.17%
								to page
		Rm =	rate of return		.48%			
		Rf =	risk free rate		.03%			
		Rp =	risk premium		.45%			
		B =	Beta		0.93			page
p =	Risk Premium							4.45
								to abo
	Shannon Pratt an	-				3.50% - 6.00%		
	Dr. Associate Dames		pital, App and Exam,	5th Ed, 2014		4.600/		
	Dr. Aswath Damo		t			4.60% 4.45%	chart page 13 adjusted for Rf	
			s.stern.nyu.edu/~ada ed Premium	modai/		4.4570	aujusteu ioi Ki	
2f =	Risk Free Rate							4.03
•	THOR TTOO HALO							41.00
	Value Line Inve	estment Su	rvey, Selected Yi	elds January 12	, 2024,	page 829		
		US Treası	ıry Securities year					
				5 year		3.84%		
				10 year		3.88%		
	=			30 year		4.03%		
				30 year Zero		4.00%		
	Federal Reserv	e Statistica	al Release (http:	//www.federali		nov/Pelesses/	H15/Current/	`
	As of 12-29-23			/ / www.ieueran	esei ve.	gov/ Keleases/	iii5/ cuireiit/	,
	As of 12-29-23	Treasury			esei ve.	gov/ Releases/	mis, current,	,
	As of 12-29-23	Treasury	Constant Maturities		esei ve.	3.84%	mis, current,	,
	As of 12-29-23	Treasury		5	esei ve.		riis, current,	,
	As of 12-29-23	Treasury		5 year 10 year 20 year	esei ve.	3.84%	mis, current,	,
	As of 12-29-23	Treasury		5 year 10 year 20 year 30 year	esei ve.	3.84% 3.88% 4.20% 4.03%		
	As of 12-29-23	Treasury		5 year 10 year 20 year 30 year 20 year TIPS	esei ve.	3.84% 3.88% 4.20% 4.03% 1.82%	2.38%	<i>-</i> %
	As of 12-29-23	Treasury		5 year 10 year 20 year 30 year	eserve.	3.84% 3.88% 4.20% 4.03%	2.389 2.139	- % %
		Treasury		5 year 10 year 20 year 30 year 20 year TIPS	eserve.	3.84% 3.88% 4.20% 4.03% 1.82%	2.38%	% % indication
nflati		Treasury		5 year 10 year 20 year 30 year 20 year TIPS	eserve.	3.84% 3.88% 4.20% 4.03% 1.82%	2.389 2.139 TIPS inflation	% % indication 2.13
nflati	on		Constant Maturities	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS	eserve.	3.84% 3.88% 4.20% 4.03% 1.82%	2.389 2.139	% indication 2.13
nflati	on	Survey De		5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS		3.84% 3.88% 4.20% 4.03% <u>1.82%</u> 1.90%	2.389 2.139 TIPS inflation	% indication 2.13 sal templa
	on	Survey De Inflation m	Constant Maturities cember 15, 2023 ledian (measured by	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS		3.84% 3.88% 4.20% 4.03% <u>1.82%</u> 1.90%	2.38% 2.13% TIPS inflation to apprais 2.26	% % indication 2.13 sal templa
nflati	on The Livingston Domestic Produ	Survey De Inflation m	cember 15, 2023 ledian (measured by	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price		3.84% 3.88% 4.20% 4.03% <u>1.82%</u> 1.90%	2.389 2.139 TIPS inflation to apprais	% % indication 2.13 sal templa
	on The Livingston Domestic Produ	Survey De Inflation m ct (GDP) No e Projected	cember 15, 2023 ledian (measured by	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price	⊵ Index) oʻ	3.84% 3.88% 4.20% 4.03% <u>1.82%</u> 1.90%	2.389 2.139 TIPS inflation to apprais 2.266	% % indication 2.13 sal temple % 3.93 inflation e
	on The Livingston Domestic Produ	Survey De Inflation m ct (GDP) No e Projectee Median Pro	cember 15, 2023 ledian (measured by	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price	⊵ Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90%	2.389 2.139 TIPS inflation to apprais 2.266 real GDP +	% % indication 2.13 sal templa % 3.93 inflation 6
	on The Livingston Domestic Produ Federal Reserv	Survey De Inflation m ot (GDP) No e Projectee Median Pro https://ww	cember 15, 2023 ledian (measured by ominal d Long Run Real (pjection Value From D ww.federalreserve.gov	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price	e Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90%	2.389 2.139 TIPS inflation to apprais 2.266 real GDP +	% indication 2.13 sal templa % 3.93 inflation of
	on The Livingston Domestic Produ Federal Reserv	Survey De Inflation m ct (GDP) No e Projected Median Pro https://ww Budget Off	cember 15, 2023 dedian (measured by ominal d Long Run Real (dispection Value From D	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price	e Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90%	2.389 2.139 TIPS inflation to apprais 2.269 real GDP + 1.809	% % indication 2.13 sal templa % 3.93 inflation 6
	on The Livingston Domestic Produ Federal Reserv	Survey De Inflation m ct (GDP) No e Projected Median Pro https://ww Budget Off The Budge	cember 15, 2023 ledian (measured by ledian to the company of the c	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS 4, page 2, 8 the Consumer Price GDP Growth Dec 13, 2023 Report 1/monetarypolicy/fil nomic Projection pok 2024-2034	e Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90%	2.389 2.139 TIPS inflation to apprais 2.266 real GDP +	% % indication 2.13 sal templa % 3.93 inflation 6
	on The Livingston Domestic Produ Federal Reserv	Survey De Inflation m ct (GDP) No e Projectee Median Pro https://ww Budget Off The Budge Average Pe	cember 15, 2023 pedian (measured by pminal d Long Run Real (pjection Value From Elw. federal reserve.gov ice Real GDP Eco t and Economic Outlot	5 5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price GDP Growth Dec 13, 2023 Report //monetarypolicy/fil nomic Projection pok 2024-2034 ar To Year	E Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90% ver next 10 years	2.389 2.139 2.139 TIPS inflation to apprais 2.266 real GDP + 1.806 df	% 6 6 7 2.13 8 8 8 3.93 9 9 3.93 9 9 9 9 9 9 9 9 9 9 9 9 9
	on The Livingston Domestic Produ Federal Reserv	Survey De Inflation m ot (GDP) No e Projected Median Pro https://ww Budget Off The Budge Average Pe https://ww	cember 15, 2023 ledian (measured by ominal d Long Run Real (bijection Value From Diversion V	5 5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price GDP Growth Dec 13, 2023 Report //monetarypolicy/fil nomic Projection pok 2024-2034 ar To Year	E Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90% ver next 10 years	2.38% 2.139 2.139 TIPS inflation to apprais 2.266 real GDP + 1.806 df Table 2.3, 2.209	% % indication 2.13 sal templa % 3.93 inflation 6 %
	on The Livingston Domestic Produ Federal Reserv Congressional	Survey De Inflation m ct (GDP) No e Projected Median Pro https://ww Budget Off The Budge Average Pe https://ww e Bank of F	cember 15, 2023 ledian (measured by ledian (me	5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS 4, page 2, 8 the Consumer Price GDP Growth Dec 13, 2023 Report I/monetarypolicy/fil nomic Projection Dok 2024-2034 ar To Year les/2024-02/59710	E Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90% ver next 10 years	2.38% 2.139 2.139 TIPS inflation to apprais 2.266 real GDP + 1.806 df Table 2.3, 2.209	% % indicatior 2.13 sal templa % 3.93 inflation 6 %
	on The Livingston Domestic Produ Federal Reserv Congressional	Survey De Inflation m ct (GDP) No e Projectee Median Pro https://ww Budget Off The Budge Average Pe https://ww e Bank of F	cember 15, 2023 ledian (measured by ominal d Long Run Real (bijection Value From Diversion V	5 5 year 10 year 20 year 30 year 20 year TIPS 30 year TIPS , page 2, 8 the Consumer Price GDP Growth Dec 13, 2023 Report //monetarypolicy/fil nomic Projection Dock 2024-2034 ar To Year les/2024-02/59710	E Index) o	3.84% 3.88% 4.20% 4.03% 1.82% 1.90% ver next 10 years	2.38% 2.139 2.139 TIPS inflation to apprais 2.266 real GDP + 1.806 df Table 2.3, 2.209	% % indication 2.13 sal templa % 3.93 inflation % pg 55 %

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

Washington State Department of Revenue 2024 Assessment Year Electric Industry

Based on Dividend Growth

Ke = (D1 / Po) + G

 $\begin{array}{lll} \mbox{Ke} &= & \mbox{Cost of Equity} \\ \mbox{D1} &= & \mbox{Expected Dividends} \\ \mbox{Po} &= & \mbox{Current Price} \\ \mbox{G} &= & \mbox{Sustainable Growth} \\ \end{array}$

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Dividend Yield (D1/Po)	Dividend Growth (G)	Ke with Short Term Growth
Avista Corp	ava	35.74	1.92	5.37%	4.50%	9.87%
Black Hills	bkh	53.27	2.58	4.84%	4.50%	9.34%
Edison International	eix	71.49	3.14	4.39%	5.00%	9.39%
Idacorp Inc	ida	97.46	3.40	3.49%	6.50%	9.99%
NorthWestern Corp	nwe	50.89	2.60	5.11%	2.00%	7.11%
Pinnacle West Capital	pnw	70.94	3.55	5.00%	2.00%	7.00%
PNM Resources Inc	pnm	41.15	1.58	3.84%	6.00%	9.84%
Portland General Elect	por	43.34	1.98	4.57%	5.50%	10.07%
Sempra Energy	sre	74.73	2.50	3.35%	5.50%	8.85%
Xcel Energy Inc	xel	61.91	2.22	3.59%	6.00%	9.59%
					Mean armonic Mean Median Max Min Std Dev at of Variation	9.10% 8.96% 9.49% 10.07% 7.00% 1.14%
				Coefficien	Say	9.00%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

Washington State Department of Revenue 2024 Assessment Year Electric Industry

Based on Earnings Growth

Ke = (D1 / Po) + G

 $\begin{array}{lll} \mbox{Ke} &= & \mbox{Cost of Equity} \\ \mbox{D1} &= & \mbox{Expected Dividends} \\ \mbox{Po} &= & \mbox{Current Price} \\ \mbox{G} &= & \mbox{Sustainable Growth} \\ \end{array}$

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Dividend Yield (D1/Po)	Earnings Growth (G)	Ke with Short Term Growth
Avista Corp	ava	35.74	1.92	5.37%	6.00%	11.37%
Black Hills	bkh	53.27	2.58	4.84%	3.00%	7.84%
Edison International	eix	71.49	3.14	4.39%	4.50%	8.89%
Idacorp Inc	ida	97.46	3.40	3.49%	4.00%	7.49%
NorthWestern Corp	nwe	50.89	2.60	5.11%	3.50%	8.61%
Pinnacle West Capit	pnw	70.94	3.55	5.00%	2.50%	7.50%
PNM Resources Inc	pnm	41.15	1.58	3.84%	5.00%	8.84%
Portland General Ele	por	43.34	1.98	4.57%	5.00%	9.57%
Sempra Energy	sre	74.73	2.50	3.35%	6.50%	9.85%
Xcel Energy Inc	xel	61.91	2.22	3.59%	6.00%	9.59%
					Mean armonic Mean Median Max Min Std Dev	8.95% 8.82% 8.87% 11.37% 7.49% 1.20%
L				Coefficien	t of Variation Say	13.44% 8,95%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

Washington State Department of Revenue

2024 Assessment Year

Electric Industry

Based on Return on Equity Ke = (D1 / Po) + G

Ke = Cost of Equity

D1 = Expected Dividends E1 = Expected Earnings Po = Current Price

G = Sustainable Growth

b = Retained Earnings % = (1 - Payout Ratio)

ROE = Return on Equity = (E1 / Po)

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Expected Earnings (E1)	Dividend Yield (D1/Po)	Retained Earnings (b)	ROE (E1/Po)	Growth (b*ROE)	K _e Dividends	K _e Earnings
Avista Corp	ava	35.74	1.92	2.45	5.37%		6.86%	1.37%	6.74%	8.23%
Black Hills	bkh	53.27	2.58	3.90	4.84%	34.0%	7.32%	2.49%	7.33%	9.81%
Edison International	eix	71.49	3.14	5.10	4.39%	32.0%	7.13%	2.28%	6.68%	9.42%
Idacorp Inc	ida	97.46	3.40	5.45	3.49%	38.0%	5.59%	2.12%	5.61%	7.72%
NorthWestern Corp	nwe	50.89	2.60	3.55	5.11%	18.0%	6.98%	1.26%	6.36%	8.23%
Pinnacle West Capita	pnw	70.94	3.55	4.60	5.00%	18.0%	6.48%	1.17%	6.17%	7.65%
PNM Resources Inc	pnm	41.15	1.58	2.85	3.84%	45.0%	6.93%	3.12%	6.96%	10.04%
Portland General Elec	por	43.34	1.98	3.00	4.57%	28.0%	6.92%	1.94%	6.51%	8.86%
Sempra Energy	sre	74.73	2.50	4.80	3.35%	NMF	6.42%	NMF	NMF	NMF
Xcel Energy Inc	xel	61.91	2.22	3.55	3.59%	38.0%	5.73%	2.18%	5.76%	7.91%
								Mean	6.46%	8.65%

Mean6.46%8.65%Harmonic Mean6.42%8.57%Median6.51%8.23%Std Dev0.55%0.91%Coefficient of Variation8.53%10.56%

say 8.65%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT FREE CASH FLOW TO EQUITY MODEL MULTI STAGE

Washington State Department of Revenue 2024 Assessment Year Electric Industry

Company	Ticker	Stock Price	Expected Earnings	P/E	Payout Ratio	ROE	Ke
Avista Corp	ava	35.74	2.45	14.59	78.00%	7.50%	8.01%
Black Hills	bkh	53.27	3.90	13.66	66.00%	8.00%	8.76%
Edison Internationa	eix	71.49	5.10	14.02	65.00%	12.50%	8.49%
Idacorp Inc	ida	97.46	5.45	17.88	62.00%	9.00%	5.20%
NorthWestern Corp	nwe	50.89	3.55	14.34	73.00%	7.50%	8.18%
Pinnacle West Capit	pnw	70.94	4.60	15.42	78.00%	8.50%	7.51%
PNM Resources Inc	pnm	41.15	2.85	14.44	55.00%	10.00%	8.11%
Portland General Ele	por	43.34	3.00	14.45	66.00%	8.50%	8.24%
Sempra Energy	sre	74.73	4.80	15.57	52.00%	10.50%	7.44%
Xcel Energy Inc	xel	61.91	3.55	17.44	62.00%	10.50%	5.87%
Mean				15.18	65.70%	9.25%	7.58%
Harmonic Mean				15.07	64.64%	9.02%	7.39%
Median				14.52	65.50%	8.75%	8.06%
Industry Summa	ry			15.00	65.00%	9.00%	
				•			

Say 7.50%

SUPPORT FOR DEBT RATING AND DEBT YIELD RATE

Washington State Department of Revenue 2024 Assessment Year Electric Industry

Company	Ticker	Mergent's Ratings	S&P Ratings
Avista Corp	ava	Baa2	BBB
Black Hills	bkh	Baa2	BBB+
Edison International	eix	Baa2	BBB
Idacorp Inc	ida	Baa2	BBB
NorthWestern Corp	nwe	Baa2	BBB
Pinnacle West Capital Corp	pnw	Baa1	BBB+
PNM Resources Inc	pnm	Baa2	BBB
Portland General Electric	por	A3	BBB+
Sempra Energy	sre	Baa2	BBB+
Xcel Energy Inc	xel	Baa1	BBB+

Overall Average Debt Rating	Baa2	BBB

Mergent's Bond Record	Januar	y 2024,	page 10)1
Corporate	Aaa	Aa	Α	Baa
October	5.61%	5.97%	6.18%	6.63%
November	5.61%	5.57%	5.78%	6.19%
December	4.74%	5.05%	5.25%	5.64%
4th Qtr Average	5.32%	5.53%	5.74%	6.15%
Public Utilities	Aaa	Aa	Α	Baa
October		6.19%	6.34%	6.61%
November		5.82%	5.96%	6.20%
December		5.27%	5.42%	5.68%
4th Qtr Average		5.76%	5.91%	6.16%
Industrials	Aaa	Aa	Α	Baa
October	5.61%	5.76%	6.02%	6.64%
November	5.20%	5.32%	5.59%	6.18%
December	4.74%	4.82%	5.07%	5.60%
4th Qtr Average	5.18%	5.30%	5.56%	6.14%

	20Y	25Y	30Y
Bloomberg S&P Bond Yields			
December 2023: BBB+	6.03%	5.91%	5.79%
December 2023: BBB	6.33%	6.29%	6.28%

Debt Yield Rate Cost of Secured Debt (Operating Lease) Rate 6.00% 5.00%

SUPPORT FOR DIRECT CAPITALIZATION EQUITY COMPONENT

2024 Assessment Year Electric Industry

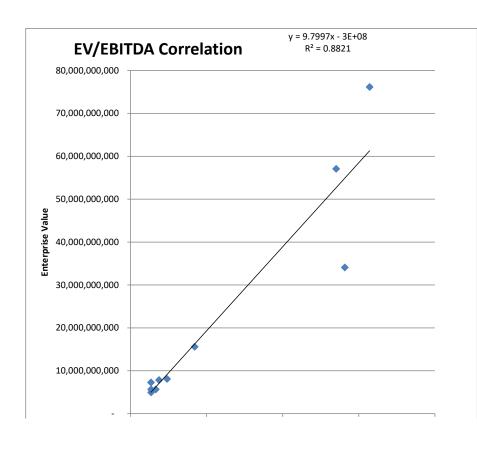
			20	023		024	20	023	20	024
Company	Ticker	Stock Price		Earnings (EPS/P)	Earning	ected gs Ratio PS/P)		ow Ratio F/P)	-	ted Cash Ratio
Avista Corp	ava	35.74	2.30	6.4%	2.45	6.9%	5.70	15.9%	5.90	16.5%
Black Hills	bkh	53.27	3.80	7.1%	3.90	7.3%	7.80	14.6%	8.00	15.0%
Edison International	eix	71.49	4.70	6.6%	5.10	7.1%	12.35	17.3%	13.00	18.2%
Idacorp Inc	ida	97.46	5.15	5.3%	5.45	5.6%	8.80	9.0%	9.35	9.6%
NorthWestern Corp	nwe	50.89	3.10	6.1%	3.55	7.0%	6.45	12.7%	7.15	14.0%
Pinnacle West Capital Co	pnw	70.94	4.25	6.0%	4.60	6.5%	13.35	18.8%	13.40	18.9%
PNM Resources Inc	pnm	41.15	2.80	6.8%	2.85	6.9%	6.85	16.6%	7.05	17.1%
Portland General Electric	por	43.34	2.60	6.0%	3.00	6.9%	6.90	15.9%	7.75	17.9%
Sempra Energy	sre	74.73	4.60	6.2%	4.80	6.4%	7.85	10.5%	8.30	11.1%
Xcel Energy Inc	xel	61.91	3.35	5.4%	3.55	5.7%	8.25	13.3%	8.65	14.0%
	Цант	Mean onic Mean		6.2% 6.1%		6.6% 6.6%		14.5% 13.8%		15.2% 14.6%
	Панн	Median		6.1%		6.9%		15.3%		15.8%
		Max		7.1%		7.3%		18.8% 9.0%		18.9%
		Min Std Dev		5.3% 0.6%		5.6% 0.6%		9.0% 3.1%		9.6% 3.1%
C	-:	Stu Dev Variation								
Coem	Clent or			9.3%		8.7%		21.3%		20.3%
		Say		6.0%		6.6%		14.5%		15.0%

Source: Value Line / yr end stock price

SUPPORT FOR DIRECT CAPITALIZATION EQUITY COMPONENT

2024 Assessment Year

Company	Ticker	Stock Price	Enterprise Value	EBITDA Historical	Annual Change VL	EBITDA Forecast	EV / EBITDA Forecast	Revenue Forecast	EV / Sales Forecast	CF Forecast	Debt Svc	EV/CF Forecast
Avista Corp	ava	35.74	4,973,083,000	523,099,000	3.51%	541,453,351	9.18	1,774,850,000	2.80	454,300,000	133,266,180	8.46
Black Hills	bkh	53.27	7,837,960,000	729,500,000	2.56%	748,205,128	10.48	2,611,200,000	3.00	544,000,000	252,936,000	9.84
Edison Internation	eix	71.49	34,089,422,500	5,349,000,000	5.26%	5,630,526,316	6.05	1,644,412,500	20.73	458,250,000	1,878,900,000	14.59
Idacorp Inc	ida	97.46	7,284,760,000	506,872,000	6.25%	538,551,500	13.53	1,693,200,000	4.30	476,850,000	161,056,680	11.42
NorthWestern Corp	nwe	50.89	5,676,210,000	487,622,000	10.85%	540,542,217	10.50	1,599,600,000	3.55	443,300,000	151,261,800	9.55
Pinnacle West Cap	pnw	70.94	15,607,343,000	1,678,776,000	0.37%	1,685,063,551	9.26	4,619,450,000	3.38	1,520,900,000	453,339,180	7.91
PNM Resources Inc	pnm	41.15	5,651,815,500	644,386,000	2.92%	663,200,190	8.52	2,219,222,500	2.55	605,242,500	126,455,280	7.72
Portland General E	por	43.34	8,104,010,000	854,000,000	12.32%	959,202,899	8.45	3,207,400,000	2.53	786,625,000	222,300,000	8.03
Sempra Energy	sre	74.73	76,170,580,000	5,942,000,000	5.73%	6,282,624,204	12.12	18,443,300,000	4.13	5,361,800,000	1,537,020,000	11.04
Xcel Energy Inc	xel	61.91	57,088,938,000	5,155,000,000	4.85%	5,404,939,394	10.56	15,477,990,000	3.69	4,773,070,000	1,375,620,000	9.28
10		Mean					9.87		5.07			9.78
	Harmon	ic Mean					9.44		3.51			9.44
		Median					9.87		3.46			9.42
		Std Dev					2.08		5.54			2.11
		Say					9.75		4.00			9.75



Forecast EV/EBITDA By Rank

	EV/EBITDA		
Guideline Companies	forecast		
Edison International	6.05		
Portland General Electric	8.45		
PNM Resources Inc	8.52	8.29	Low Average
Avista Corp	9.18	8.52	Low Median
Pinnacle West Capital Corp	9.26	8.40	Say
Black Hills	10.48	11.44	High Average
NorthWestern Corp	10.50	10.56	High Median
Xcel Energy Inc	10.56	11.00	Say
Sempra Energy	12.12		
Idacorp Inc	13.53		

- 2,000,000,000 4,000,000,000 6,000,000,000 8,000,000,000

EBITDA (Forecast)

• EV/EBITDA —— Linear (EV/EBITDA)

IMPLIED PREMIUMS FOR US MARKET

These implied premiums are calculated using the S&P 500.

These im	iplied prem	iums are c	alculated	using the	S&P 500.												
Year	arnings Yiel	ividend Yiel	S&P 500	Earnings*	Dividends*	dends + Buyb	ınge in Earni	nge in Divide	T.Bill Rate	T.Bond Rate	Bond-Bill	oothed Grov	d Premium (t Growth Es	Implied Premium (FCFE)	Implied Premium	ERP/Riskfree Rate
2002	5.23%	1.83%	879.82	46.04	16.08	29.83	18.51%	2.15%	1.20%	3.81%	2.61%	3.57%	2.29%	8.00%	4.10%	4.73%	1.08
2003	4.87%	1.61%	1111.91	54.69	17.88	31.58	18.79%	11.19%	1.00%	4.25%	3.25%	5.35%	2.12%	11.00%	3.69%	4.74%	0.87
2004	5.58%	1.60%	1211.92	67.68	19.407	40.6	23.75%	8.54%	2.18%	4.22%	2.04%	4.90%	2.02%	8.50%	3.65%	4.86%	0.86
2005	5.47%	1.79%	1248.29	76.45	22.38	61.17	12.96%	15.32%	4.31%	4.39%	0.08%	6.16%	2.20%	8.00%	4.08%	5.22%	0.93
2006	6.18%	1.77%	1418.3	87.72	25.05	73.16	14.74%	11.93%	4.88%	4.70%	-0.18%	5.93%	1.97%	12.50%	4.16%	6.12%	0.89
2007	5.62%	1.89%	1468.36	82.54	27.73	95.36	-5.91%	10.70%	3.31%	4.02%	0.71%	5.03%	2.06%	5.00%	4.37%	4.59%	1.09
2008	7.24%	3.11%	903.25	65.39	28.05	67.52	-20.78%	1.15%	1.59%	2.21%	0.62%	2.11%	4.05%	4.00%	6.43%	6.92%	2.91
2009	5.35%	2.00%	1115.1	59.65	22.31	37.43	-8.78%	-20.46%	0.14%	3.84%	3.70%	0.28%	2.60%	7.20%	4.36%	4.64%	1.14
2010	6.65%	1.84%	1257.64	83.66	23.12	55.53	40.25%	3.63%	0.13%	3.29%	3.16%	3.33%	2.24%	6.95%	5.20%	6.09%	1.58
2011	7.72%	2.07%	1257.6	97.05	26.02	71.28	16.01%	12.54%	0.03%	1.88%	1.85%	2.75%	2.71%	7.18%	6.01%	8.34%	3.2
2012	7.18%	2.13%	1426.19	102.47	30.44	75.9	5.58%	16.99%	0.05%	1.76%	1.71%	2.93%	2.47%	5.27%	5.78%	7.30%	3.28
2013	5.81%	1.96%	1848.36	107.45	36.28	88.13	4.86%	19.19%	0.07%	3.04%	2.97%	5.01%	2.03%	4.28%	4.96%	4.99%	1.63
2014	5.49%	1.92%	2058.9	113.01	39.44	101.98	5.17%	8.71%	0.05%	2.17%	2.12%	2.77%	2.24%	5.58%	5.78%	5.48%	2.66
2015	5.20%	2.11%	2043.94	106.32	43.16	106.1	-5.92%	9.43%	0.21%	2.27%	2.06%	2.96%	2.46%	5.51%	6.12%	5.16%	2.7
2016	4.86%	2.01%	2238.83	108.86	45.03	108.67	2.39%	4.33%	0.51%	2.45%	1.94%	2.64%	2.41%	5.54%	5.69%	4.50%	2.32
2017	4.67%	1.86%	2673.61	124.94	49.73	108.28	14.77%	10.44%	1.39%	2.41%	1.02%	3.22%	2.36%	7.05%	5.08%	4.75%	2.11
2018	5.92%	2.14%	2506.85	148.34	53.61	136.65	18.73%	7.80%	2.37%	2.68%	0.31%	3.24%	2.50%	4.12%	5.96%	5.55%	2.22
2019	5.03%	1.82%	3230.78	162.35	58.8	150.5	9.44%	9.68%	1.55%	1.92%	0.37%	2.57%	2.03%	3.96%	5.20%	5.06%	2.71
2020	3.72%	1.51%	3756.07	139.76	56.7	127.78	-13.91%	-3.57%	0.09%	0.93%	0.84%	0.74%	1.65%	5.42%	4.72%	4.94%	5.08
2021	4.33%	1.24%	4766.18	206.38	59.2	147.24	47.67%	4.41%	0.06%	1.51%	1.45%	1.71%	1.72%	6.47%	4.24%	4.90%	2.81
2022	5.72%	1.78%	3839.5	219.49	68.34	181.99	6.35%	15.44%	4.42%	3.88%	-0.54%	5.59%	2.16%	6.41%	5.94%	5.11%	1.53
2023	4.61%	1.47%	4769.83	219.7	70.3	164.25	0.10%	2.87%	5.20%	3.88%	-1.32%	3.73%	1.97%	8.74%	4.60%	4.57%	1.19

DATA INPUT

Washington State Department of Revenue 2024 Assessment Year Electric Industry

										Hi	istoric Figures (2	023)			
Guideline Companies		Stock Price 12/29/23	Beta Levered	Fin'l Strength	Revenues Per Share	Cash Flow Per Share	Earnings Per Share	Dividends Per Share	Bk Value Per Share	Mkt/Bk	Common Shares	LTD (BV)	Trailing P/E Ratio	Div Yield	Calculated Debt
Name	Ticker	Yahoo	VL	VL	VL	VL	VL	VL	VL	Formula	VL	V L	V L	V L	Formula
Avista Corp	ava	35.74	0.90	B+	23.40	5.70	2.30	1.84	32.70	1.09	77,000,000	2,621,400,000	16.6	5.0%	84.00%
Black Hills	bkh	53.27	1.00	B++	36.75	7.80	3.80	2.50	46.75	1.14	68,000,000	3,799,500,000	14.5	4.6%	95.78%
Edison International	eix	71.49	1.00	B++	43.90	12.35	4.70	2.99	35.25	2.03	35,250,000	29,532,000,000	15.8	4.3%	94.86%
Idacorp Inc	ida	97.46	0.85	Α	32.55	8.80	5.15	3.20	56.85	1.71	51,000,000	2,826,200,000	18.4	3.4%	95.00%
NorthWestern Corp	nwe	50.89	0.95	B+	24.50	6.45	3.10	2.56	47.25	1.08	62,000,000	2,550,800,000	16.8	5.1%	90.54%
Pinnacle West Capital Corp	pnw	70.94	0.95	B++	41.40	13.35	4.25	3.49	54.10	1.31	113,500,000	8,164,400,000	17.7	4.8%	89.78%
PNM Resources Inc	pnm	41.15	0.90	B+	24.15	6.85	2.80	1.49	26.75	1.54	85,850,000	3,914,200,000	14.1	4.0%	93.18%
Portland General Electric	por	43.34	0.90	B++	28.55	6.90	2.60	1.88	33.80	1.28	101,500,000	4,077,000,000	18.4	4.5%	92.65%
Sempra Energy	sre	74.73	1.00	Α	27.35	7.85	4.60	2.38	44.90	1.66	646,000,000	28,592,000,000	16.5	3.2%	92.43%
Xcel Energy Inc	xel	61.91	0.85	Α	26.75	8.25	3.35	2.08	31.50	1.97	551,800,000	24,910,000,000	19.9	3.5%	90.03%

Average
Harmonic Mean
Median

16.7

					Pi	rojected (Ne	xt Year) 20	24				Longer Ter	m Forecasts	Income Statement		
Payout Ratio	to Net Profits	Shrhldrs Equity	Revenues Per Share		_	Dividends Per Share	Bk Value Per Share	to Net Profits	Shrhldrs Equity	Projection 26-28	Projection 26-28	Growth26- 28	Growth 26-28	Operating Income	Current Assets	PP & E Gross
Formula	V L	٧L	V L	V L	V L	V L	٧L	VL	٧L	V L	VL	VL	VL	Yahoo	Yahoo	Yahoo
80.00%	80%	7.0%	23.05	5.90	2.45	1.92	33.15	78%	7.5%	6.50	2.90	6.0%	4.5%	257,690,000	661,842,000	8,116,820,000
65.79%	66%	8.0%	38.40	8.00	3.90	2.58	48.70	66%	8.0%	9.25	4.50	3.0%	4.5%	472,700,000	826,600,000	8,917,200,000
63.62%	68%	11.5%	46.65	13.00	5.10	3.14	35.00	65%	12.5%	14.50	6.00	4.5%	5.0%	2,628,000,000	6,811,000,000	70,329,000,000
62.14%	62%	9.0%	33.20	9.35	5.45	3.40	59.25	62%	9.0%	10.65	6.10	4.0%	6.5%	306,964,000	1,004,054,000	8,302,974,000
82.58%	82%	6.0%	25.80	7.15	3.55	2.60	48.25	73%	7.5%	8.35	4.15	3.5%	2.0%	280,520,000	538,824,000	7,843,783,000
82.12%	82%	7.5%	40.70	13.40	4.60	3.55	56.75	78%	8.5%	15.00	5.70	2.5%	2.0%	824,640,000	1,926,967,000	27,813,760,000
53.21%	55%	10.0%	25.85	7.05	2.85	1.58	27.75	55%	10.0%	8.35	3.35	5.0%	6.0%	303,263,000	410,978,000	9,759,583,000
72.31%	72%	7.5%	31.60	7.75	3.00	1.98	35.00	66%	8.5%	9.30	3.65	5.0%	5.5%	396,000,000	935,000,000	14,303,000,000
51.74%	52%	10.5%	28.55	8.30	4.80	2.50	47.00	52%	10.5%	10.25	6.00	6.5%	5.5%	3,715,000,000	5,470,000,000	73,218,000,000
62.09%	62%	10.5%	28.05	8.65	3.55	2.22	33.15	62%	10.5%	10.10	4.25	6.0%	6.0%	2,588,000,000	4,069,000,000	75,176,000,000
	68.1%	8.8%	_					65.7%	9.25%	10.23						

9.02%

8.75%

64.6%

65.5%

9.66

9.70

8.4%

8.5%

66.5%

67.0%

14

Balance Sheet			Cash Flow Statement	Other Fi	inancials
Intangibles (excl. GW)	Current Liabilities	Less Current Maturities	Depreciation & Amortization	Carrying Value Debt	Fair Value Debt
Yahoo	Yahoo	Yahoo	Yahoo	10-K	10-K
-	775,205,000	2,566,905,000	265,409,000	2,644,042,000	2,221,103,000
8,400,000	1,185,100,000	3,801,200,000	256,800,000	4,401,200,000	4,215,600,000
	8,598,000,000	30,316,000,000	2,721,000,000	33,013,000,000	31,315,000,000
	634,076,000	2,775,790,000	199,908,000	2,825,590,000	2,684,278,000
	620,845,000	2,474,357,000	207,102,000	2,784,585,000	2,521,030,000
267,110,000	2,889,347,000	7,540,622,000	854,136,000	8,415,622,000	7,555,653,000
	890,370,000	3,892,594,000	341,123,000	2,261,780,000	2,107,588,000
	1,112,000,000	3,905,000,000	458,000,000	3,999,000,000	3,705,000,000
318,000,000	10,090,000,000	27,759,000,000	2,227,000,000	27,716,000,000	25,617,000,000
	5,652,000,000	24,913,000,000	2,567,000,000	25,465,000,000	22,927,000,000

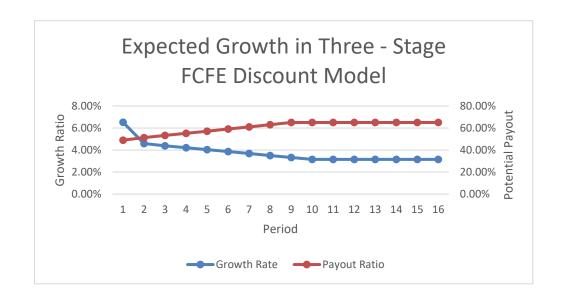
Company Avista Corp

3.93% GDP

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

	Growth	Reinvestment	Payout			Terminal	Cash
Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
0		72.46%	27.54%	2.30			(35.74)
1	6.52%	51.02%	48.98%	2.45	1.20		1.20
2	4.59%	48.78%	51.22%	2.56	1.31		1.31
3	4.39%	46.73%	53.27%	2.68	1.43		1.43
4	4.21%	44.84%	55.16%	2.79	1.54		1.54
5	4.04%	42.87%	57.13%	2.90	1.66		1.66
6	3.86%	40.91%	59.09%	3.01	1.78		1.78
7	3.68%	38.94%	61.06%	3.12	1.91		1.91
8	3.50%	36.97%	63.03%	3.23	2.04		2.04
9	3.33%	35.00%	65.00%	3.34	2.17		2.17
10	3.15%	35.00%	65.00%	3.44	2.24	53.30	55.54
11+	3.15%	35.00%	65.00%	3.55	2.31		
						K _e =	8.01%
	0 1 2 3 4 5 6 7 8 9	Year Rate 0 1 1 6.52% 2 4.59% 3 4.39% 4 4.21% 5 4.04% 6 3.86% 7 3.68% 8 3.50% 9 3.33% 10 3.15%	Year Rate Rate 0 72.46% 1 6.52% 51.02% 2 4.59% 48.78% 3 4.39% 46.73% 4 4.21% 44.84% 5 4.04% 42.87% 6 3.86% 40.91% 7 3.68% 38.94% 8 3.50% 36.97% 9 3.33% 35.00% 10 3.15% 35.00%	Year Rate Rate Ratio 0 72.46% 27.54% 1 6.52% 51.02% 48.98% 2 4.59% 48.78% 51.22% 3 4.39% 46.73% 53.27% 4 4.21% 44.84% 55.16% 5 4.04% 42.87% 57.13% 6 3.86% 40.91% 59.09% 7 3.68% 38.94% 61.06% 8 3.50% 36.97% 63.03% 9 3.33% 35.00% 65.00% 10 3.15% 35.00% 65.00%	Year Rate Rate Ratio Earnings 0 72.46% 27.54% 2.30 1 6.52% 51.02% 48.98% 2.45 2 4.59% 48.78% 51.22% 2.56 3 4.39% 46.73% 53.27% 2.68 4 4.21% 44.84% 55.16% 2.79 5 4.04% 42.87% 57.13% 2.90 6 3.86% 40.91% 59.09% 3.01 7 3.68% 38.94% 61.06% 3.12 8 3.50% 36.97% 63.03% 3.23 9 3.33% 35.00% 65.00% 3.34 10 3.15% 35.00% 65.00% 3.44	Year Rate Rate Ratio Earnings FCFE 0 72.46% 27.54% 2.30 1 1 6.52% 51.02% 48.98% 2.45 1.20 2 4.59% 48.78% 51.22% 2.56 1.31 3 4.39% 46.73% 53.27% 2.68 1.43 4 4.21% 44.84% 55.16% 2.79 1.54 5 4.04% 42.87% 57.13% 2.90 1.66 6 3.86% 40.91% 59.09% 3.01 1.78 7 3.68% 38.94% 61.06% 3.12 1.91 8 3.50% 36.97% 63.03% 3.23 2.04 9 3.33% 35.00% 65.00% 3.34 2.17 10 3.15% 35.00% 65.00% 3.44 2.24	Year Rate Rate Ratio Earnings FCFE Value 0 72.46% 27.54% 2.30



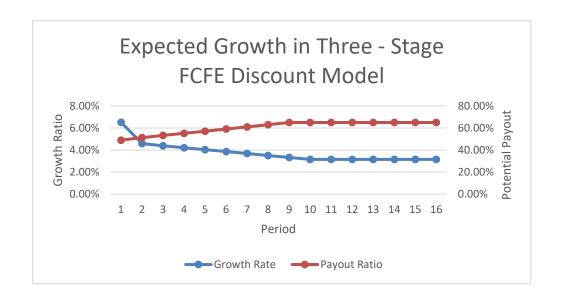
Company Black Hills
Ticker bkh

3.93% GDP

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		29.24%	70.76%	3.80			(53.27)
	1	2.63%	42.74%	57.26%	3.90	2.23		2.23
	2	3.85%	41.15%	58.85%	4.05	2.38		2.38
Stage 1	3	3.70%	39.68%	60.32%	4.20	2.53		2.53
	4	3.57%	38.31%	61.69%	4.35	2.68		2.68
	5	3.45%	37.65%	62.35%	4.50	2.81		2.81
	6	3.39%	36.99%	63.01%	4.65	2.93		2.93
	7	3.33%	36.33%	63.67%	4.81	3.06		3.06
Stage 2	8	3.27%	35.66%	64.34%	4.96	3.19		3.19
	9	3.21%	35.00%	65.00%	5.12	3.33		3.33
	10	3.15%	35.00%	65.00%	5.29	3.44	81.78	85.21
Stage 3	11+	3.15%	35.00%	65.00%	5.45	3.54		
							K _e =	8.76%



Company Edison Internati eix

3.93% GDP

Ticker

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		94.56%	5.44%	4.70			(71.49)
	1	8.51%	49.02%	50.98%	5.10	2.60		2.60
	2	4.41%	46.95%	53.05%	5.33	2.83		2.83
Stage 1	3	4.23%	45.05%	54.95%	5.55	3.05		3.05
	4	4.05%	43.29%	56.71%	5.78	3.27		3.27
	5	3.90%	41.63%	58.37%	6.00	3.50		3.50
	6	3.75%	39.97%	60.03%	6.22	3.74		3.74
	7	3.60%	38.32%	61.68%	6.45	3.98		3.98
Stage 2	8	3.45%	36.66%	63.34%	6.67	4.23		4.23
	9	3.30%	35.00%	65.00%	6.89	4.48		4.48
	10	3.15%	35.00%	65.00%	7.11	4.62	109.98	114.60
Stage 3	11+	3.15%	35.00%	65.00%	7.33	4.77		
							K _e =	8.49%

Ticker

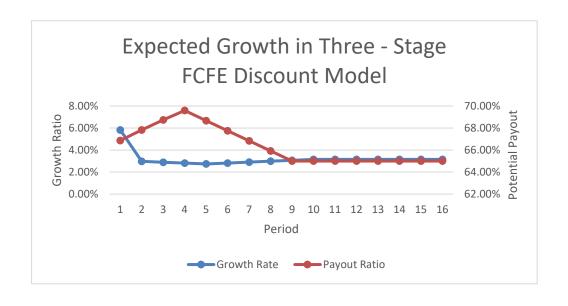
Company Idacorp Inc ida

3.93% GDP

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

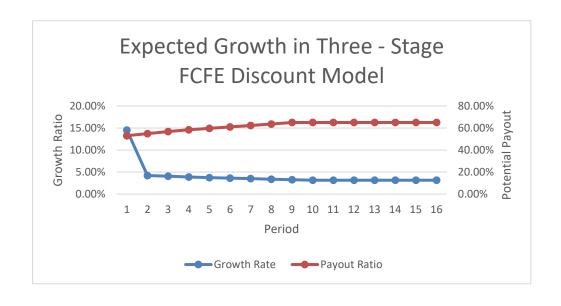
		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		64.72%	35.28%	5.15			(97.46)
	1	5.83%	33.13%	66.87%	5.45	3.64		3.64
	2	2.98%	32.17%	67.83%	5.61	3.81		3.81
Stage 1	3	2.90%	31.27%	68.73%	5.78	3.97		3.97
	4	2.81%	30.41%	69.59%	5.94	4.13		4.13
	5	2.74%	31.33%	68.67%	6.10	4.19		4.19
	6	2.82%	32.25%	67.75%	6.27	4.25		4.25
	7	2.90%	33.16%	66.84%	6.45	4.31		4.31
Stage 2	8	2.98%	34.08%	65.92%	6.65	4.38		4.38
	9	3.07%	35.00%	65.00%	6.85	4.45		4.45
	10	3.15%	35.00%	65.00%	7.07	4.59	109.33	113.93
Stage 3	11+	3.15%	35.00%	65.00%	7.29	4.74		
							K _e =	5.20%



Company NorthWestern (3.93% GDP Ticker 15.0 Indus

15.0 Industry P/E 65.0% Target Dividend Payout Ratio

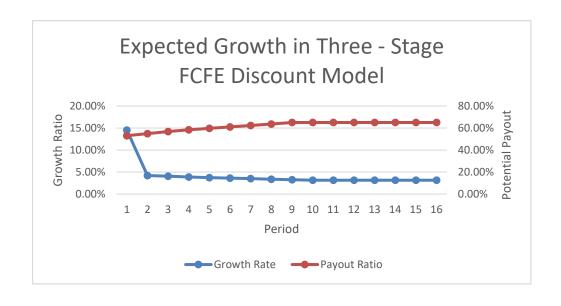
		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		161.29%	-61.29%	3.10			(50.89)
	1	14.52%	46.95%	53.05%	3.55	1.88		1.88
	2	4.23%	45.05%	54.95%	3.70	2.03		2.03
Stage 1	3	4.05%	43.29%	56.71%	3.85	2.18		2.18
	4	3.90%	41.67%	58.33%	4.00	2.33		2.33
	5	3.75%	40.33%	59.67%	4.15	2.48		2.48
	6	3.63%	39.00%	61.00%	4.30	2.62		2.62
	7	3.51%	37.67%	62.33%	4.45	2.77		2.77
Stage 2	8	3.39%	36.33%	63.67%	4.60	2.93		2.93
	9	3.27%	35.00%	65.00%	4.75	3.09		3.09
	10	3.15%	35.00%	65.00%	4.90	3.19	75.86	79.04
Stage 3	11+	3.15%	35.00%	65.00%	5.06	3.29		
							K _e =	8.18%



Company Pinnacle West (3.93% GDP Ticker pnw 15.0 Industry P/E

65.0% Target Dividend Payout Ratio

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		91.50%	8.50%	4.25			(70.94)
	1	8.24%	66.43%	33.57%	4.60	1.54		1.54
	2	5.98%	62.68%	37.32%	4.88	1.82		1.82
Stage 1	3	5.64%	59.33%	40.67%	5.15	2.09		2.09
	4	5.34%	56.32%	43.68%	5.43	2.37		2.37
	5	5.07%	52.06%	47.94%	5.70	2.73		2.73
	6	4.69%	47.79%	52.21%	5.97	3.12		3.12
	7	4.30%	43.53%	56.47%	6.22	3.51		3.51
Stage 2	8	3.92%	39.26%	60.74%	6.47	3.93		3.93
	9	3.53%	35.00%	65.00%	6.70	4.35		4.35
	10	3.15%	35.00%	65.00%	6.91	4.49	106.87	111.36
Stage 3	11+	3.15%	35.00%	65.00%	7.12	4.63		
							K _e =	7.51%



PNM Resources Company Ticker

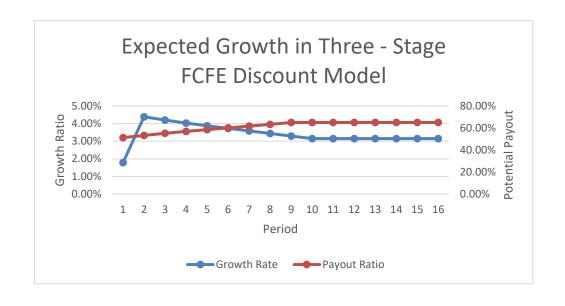
3.93% GDP

pnm

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

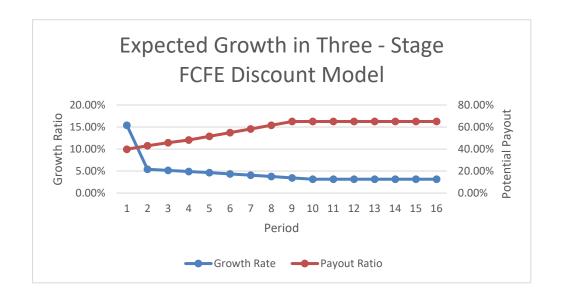
	Growth	Reinvestment	Payout			Terminal	Cash
Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
0		19.84%	80.16%	2.80			(41.15)
1	1.79%	48.73%	51.27%	2.85	1.46		1.46
2	4.39%	46.69%	53.31%	2.98	1.59		1.59
3	4.20%	44.80%	55.20%	3.10	1.71		1.71
4	4.03%	43.07%	56.93%	3.23	1.84		1.84
5	3.88%	41.45%	58.55%	3.35	1.96		1.96
6	3.73%	39.84%	60.16%	3.47	2.09		2.09
7	3.59%	38.23%	61.77%	3.60	2.22		2.22
8	3.44%	36.61%	63.39%	3.72	2.36		2.36
9	3.30%	35.00%	65.00%	3.85	2.50		2.50
10	3.15%	35.00%	65.00%	3.97	2.58	61.38	63.96
11+	3.15%	35.00%	65.00%	4.09	2.66		
						K _e =	8.11%
	0 1 2 3 4 5 6 7 8 9	Year Rate 0 1.79% 2 4.39% 3 4.20% 4 4.03% 5 3.88% 6 3.73% 7 3.59% 8 3.44% 9 3.30% 10 3.15%	Year Rate Rate 0 19.84% 1 1.79% 48.73% 2 4.39% 46.69% 3 4.20% 44.80% 4 4.03% 43.07% 5 3.88% 41.45% 6 3.73% 39.84% 7 3.59% 38.23% 8 3.44% 36.61% 9 3.30% 35.00% 10 3.15% 35.00%	Year Rate Rate Ratio 0 19.84% 80.16% 1 1.79% 48.73% 51.27% 2 4.39% 46.69% 53.31% 3 4.20% 44.80% 55.20% 4 4.03% 43.07% 56.93% 5 3.88% 41.45% 58.55% 6 3.73% 39.84% 60.16% 7 3.59% 38.23% 61.77% 8 3.44% 36.61% 63.39% 9 3.30% 35.00% 65.00% 10 3.15% 35.00% 65.00%	Year Rate Rate Ratio Earnings 0 19.84% 80.16% 2.80 1 1.79% 48.73% 51.27% 2.85 2 4.39% 46.69% 53.31% 2.98 3 4.20% 44.80% 55.20% 3.10 4 4.03% 43.07% 56.93% 3.23 5 3.88% 41.45% 58.55% 3.35 6 3.73% 39.84% 60.16% 3.47 7 3.59% 38.23% 61.77% 3.60 8 3.44% 36.61% 63.39% 3.72 9 3.30% 35.00% 65.00% 3.85 10 3.15% 35.00% 65.00% 3.97	Year Rate Rate Ratio Earnings FCFE 0 19.84% 80.16% 2.80 1.46 1 1.79% 48.73% 51.27% 2.85 1.46 2 4.39% 46.69% 53.31% 2.98 1.59 3 4.20% 44.80% 55.20% 3.10 1.71 4 4.03% 43.07% 56.93% 3.23 1.84 5 3.88% 41.45% 58.55% 3.35 1.96 6 3.73% 39.84% 60.16% 3.47 2.09 7 3.59% 38.23% 61.77% 3.60 2.22 8 3.44% 36.61% 63.39% 3.72 2.36 9 3.30% 35.00% 65.00% 3.85 2.50 10 3.15% 35.00% 65.00% 3.97 2.58	Year Rate Rate Ratio Earnings FCFE Value 0 19.84% 80.16% 2.80



Company Portland General 3.93% GDP
Ticker por 15.0 Industry P/E

65.0% Target Dividend Payout Ratio

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		170.94%	-70.94%	2.60			(43.34)
	1	15.38%	60.19%	39.81%	3.00	1.19		1.19
	2	5.42%	57.09%	42.91%	3.16	1.36		1.36
Stage 1	3	5.14%	54.30%	45.70%	3.33	1.52		1.52
	4	4.89%	51.77%	48.23%	3.49	1.68		1.68
	5	4.66%	48.42%	51.58%	3.65	1.88		1.88
	6	4.36%	45.06%	54.94%	3.81	2.09		2.09
	7	4.06%	41.71%	58.29%	3.96	2.31		2.31
Stage 2	8	3.75%	38.35%	61.65%	4.11	2.54		2.54
	9	3.45%	35.00%	65.00%	4.25	2.77		2.77
	10	3.15%	35.00%	65.00%	4.39	2.85	67.90	70.75
Stage 3	11+	3.15%	35.00%	65.00%	4.53	2.94		
							K _e =	8.24%



Company Ticker

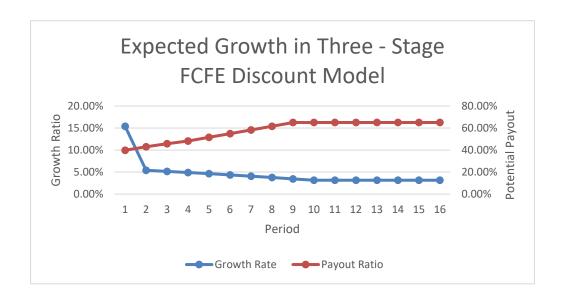
Sempra Energy sre

3.93% GDP

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		48.31%	51.69%	4.60			(74.73)
	1	4.35%	69.44%	30.56%	4.80	1.47		1.47
	2	6.25%	65.36%	34.64%	5.10	1.77		1.77
Stage 1	3	5.88%	61.73%	38.27%	5.40	2.07		2.07
	4	5.56%	58.48%	41.52%	5.70	2.37		2.37
	5	5.26%	53.78%	46.22%	6.00	2.77		2.77
	6	4.84%	49.09%	50.91%	6.29	3.20		3.20
	7	4.42%	44.39%	55.61%	6.57	3.65		3.65
Stage 2	8	4.00%	39.70%	60.30%	6.83	4.12		4.12
	9	3.57%	35.00%	65.00%	7.07	4.60		4.60
	10	3.15%	35.00%	65.00%	7.30	4.74	112.91	117.66
Stage 3	11+	3.15%	35.00%	65.00%	7.53	4.89		
							K _e =	7.44%



Company Ticker Xcel Energy Inc

3.93% GDP

15.0 Industry P/E

65.0% Target Dividend Payout Ratio

	Growth	Reinvestment	Payout			Terminal	Cash
Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
0		66.33%	33.67%	3.35			(61.91)
1	5.97%	54.77%	45.23%	3.55	1.61		1.61
2	4.93%	52.20%	47.80%	3.73	1.78		1.78
3	4.70%	49.86%	50.14%	3.90	1.96		1.96
4	4.49%	47.72%	52.28%	4.08	2.13		2.13
5	4.29%	45.17%	54.83%	4.25	2.33		2.33
6	4.07%	42.63%	57.37%	4.42	2.54		2.54
7	3.84%	40.09%	59.91%	4.59	2.75		2.75
8	3.61%	37.54%	62.46%	4.76	2.97		2.97
9	3.38%	35.00%	65.00%	4.92	3.20		3.20
10	3.15%	35.00%	65.00%	5.07	3.30	78.51	81.80
11+	3.15%	35.00%	65.00%	5.23	3.40		
						K _e =	5.87%
	0 1 2 3 4 5 6 7 8 9	Year Rate 0 1 1 5.97% 2 4.93% 3 4.70% 4 4.49% 5 4.29% 6 4.07% 7 3.84% 8 3.61% 9 3.38% 10 3.15%	Year Rate Rate 0 66.33% 1 5.97% 54.77% 2 4.93% 52.20% 3 4.70% 49.86% 4 4.49% 47.72% 5 4.29% 45.17% 6 4.07% 42.63% 7 3.84% 40.09% 8 3.61% 37.54% 9 3.38% 35.00% 10 3.15% 35.00%	Year Rate Rate Ratio 0 66.33% 33.67% 1 5.97% 54.77% 45.23% 2 4.93% 52.20% 47.80% 3 4.70% 49.86% 50.14% 4 4.49% 47.72% 52.28% 5 4.29% 45.17% 54.83% 6 4.07% 42.63% 57.37% 7 3.84% 40.09% 59.91% 8 3.61% 37.54% 62.46% 9 3.38% 35.00% 65.00% 10 3.15% 35.00% 65.00%	Year Rate Rate Ratio Earnings 0 66.33% 33.67% 3.35 1 5.97% 54.77% 45.23% 3.55 2 4.93% 52.20% 47.80% 3.73 3 4.70% 49.86% 50.14% 3.90 4 4.49% 47.72% 52.28% 4.08 5 4.29% 45.17% 54.83% 4.25 6 4.07% 42.63% 57.37% 4.42 7 3.84% 40.09% 59.91% 4.59 8 3.61% 37.54% 62.46% 4.76 9 3.38% 35.00% 65.00% 4.92 10 3.15% 35.00% 65.00% 5.07	Year Rate Rate Ratio Earnings FCFE 0 66.33% 33.67% 3.35 1.61 1 5.97% 54.77% 45.23% 3.55 1.61 2 4.93% 52.20% 47.80% 3.73 1.78 3 4.70% 49.86% 50.14% 3.90 1.96 4 4.49% 47.72% 52.28% 4.08 2.13 5 4.29% 45.17% 54.83% 4.25 2.33 6 4.07% 42.63% 57.37% 4.42 2.54 7 3.84% 40.09% 59.91% 4.59 2.75 8 3.61% 37.54% 62.46% 4.76 2.97 9 3.38% 35.00% 65.00% 5.07 3.30	Year Rate Ratio Earnings FCFE Value 0 66.33% 33.67% 3.35 1.61 1 5.97% 54.77% 45.23% 3.55 1.61 2 4.93% 52.20% 47.80% 3.73 1.78 3 4.70% 49.86% 50.14% 3.90 1.96 4 4.49% 47.72% 52.28% 4.08 2.13 5 4.29% 45.17% 54.83% 4.25 2.33 6 4.07% 42.63% 57.37% 4.42 2.54 7 3.84% 40.09% 59.91% 4.59 2.75 8 3.61% 37.54% 62.46% 4.76 2.97 9 3.38% 35.00% 65.00% 5.07 3.30 78.51 10 3.15% 35.00% 65.00% 5.23 3.40

