

COST OF CAPITAL STUDY

YIELD CAPITALIZATION

2024 Assessment Year

APPENDIX C

Power Industry

UITY RATE					9.00%	
CAPITAL ASSET PRICING MODEL						PAGE
CAPM Ex Ante			8.70%			4
DIVIDEND GROWTH MODELS Single S	tage					
Value Line, based on Dividends Grov	-		9.25%			5
Value Line, based on Earnings Grow	th		11.25%			6
Value Line, based on Return on Equi	ty		9.00%			7
			9.00%			8
FCFE GROWTH MODEL Multi Stage						
FCFE GROWTH MODEL Multi Stage				RANGE	8.7025% - 11.25%	
EBT YIELD RATE	ease) Rate			RANGE	8.7025% - 11.25% 6.00% 5.00%	9 9
EBT YIELD RATE ost of Secured Debt (Operating Le ARKET CAPITAL STRUCTURE	ease) Rate			 RANGE	6.00%	
EBT YIELD RATE ost of Secured Debt (Operating Le	ease) Rate	x	9.00%	 RANGE	6.00%	
EBT YIELD RATE ost of Secured Debt (Operating Le ARKET CAPITAL STRUCTURE		x x x	9.00% 6.00%	RANGE	6.00% 5.00%	9
EBT YIELD RATE ost of Secured Debt (Operating Le ARKET CAPITAL STRUCTURE Equity	60%			2.40%	6.00% 5.00%	9

WEIGHTED AVERAGE COST OF CAPITAL

7.22%

SUPPORT FOR GUIDELINE COMPANIES

Washington State Department of Revenue

2024 Assessment Year

Power Industry

	1											
Company	Ticker	Beta	Fin'l Strength	P/E Ratio	Div'd Yield	Common Stock	%	Preferred Stock	%	Long Term Debt	%	Total Debt & Equity
AES Corp	aes	1.15	В	13.9	3.5%	2,485,000,000	9.8%			22,746,000,000	90.2%	25,231,000,000
Exelon Corp	exc	NMF	B++	16.0	4.1%	25,372,500,000	39.2%			39,431,000,000	60.8%	64,803,500,000
NextEra Energy Inc	nee	1.00	A	18.7	3.1%	47,503,800,000	43.6%			61,405,000,000	56.4%	108,908,800,000
NRG Energy Inc	nrg	1.10	B+	NMF	2.9%	nmf		230,000,000		10,299,000,000		nmf
Southern Co	SO	0.95	A	13.6	4.0%	29,960,000,000	36.6%	291,000,000	0.4%	51,606,000,000	63.0%	81,857,000,000
Vistra Corp	vst	1.05	B+	15.5	nmf	5,307,046,000	30.5%			12,116,000,000	69.5%	17,423,046,000
Mean		1.05		15.5	3.5%	22,125,669,200	31.9%		0.4%	32,933,833,333	68.0%	
Harmonic Mean		1.05							0.4%		66.2%	
Weighted Mean						110,628,346,000	37.1%	521,000,000	0.2%	197,603,000,000	66.3%	298,223,346,000
Median		1.05			3.5%		36.6%		0.4%		63.0%	

Capital Structure at Book Value

SUPPORT FOR CAPITAL STRUCTURE Market Value

Washington State Department of Revenue

2024 Assessment Year

Power Industry

Company	Ticker	Stock Price	Common Shares	Common Stock	%	Preferred Stock	%	Long Term Debt	%	Total Debt & Equity
AES Corp	aes	19.05	710,000,000	13,525,500,000	33.9%	-		26,384,000,000	66.1%	39,909,500,000
Exelon Corp	exc	35.52	995,000,000	35,342,400,000	48.7%	-		37,246,000,000	51.3%	72,588,400,000
NextEra Energy Inc	nee	60.19	2,052,000,000	123,509,880,000	65.8%	-		64,103,000,000	34.2%	187,612,880,000
NRG Energy Inc	nrg	51.31	208,130,000	10,679,150,300	49.7%	230,000,000	1.1%	10,574,000,000	49.2%	21,483,150,300
Southern Co	SO	69.39	1,070,000,000	74,247,300,000	57.3%	291,000,000	0.2%	55,000,000,000	42.5%	129,538,300,000
Vistra Corp	vst	38.52	351,460,000	13,538,239,200	48.6%	-		14,314,000,000	51.4%	27,852,239,200
		Coeff	Mean Harmonic Mean Weighted Mean Median Std Dev icient of Variation	270,842,469,500	50.7% 48.6% 56.5% 49.2% 10.6% 21.0%	521,000,000	0.6% 0.4% 0.1% 0.6% 0.6% 92.4%	207,621,000,000	49.1% 47.2% 43.3% 50.3% 10.6% 21.7%	478,984,469,500
			Target		60%				40%	100%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT CAPITAL ASSET PRICING MODEL

2024 Assessment Year

				Ex Ante		
			Ke =	Rf + B (Rp)		
Ke =	Cost of Equity	,				8.70%
		Rm =	rate of return	8.48%	6	to page 1
		Rf =	risk free rate	4.03%		
		Rp =	risk premium	4.45%		
		B =	Beta	1.05		page 7
Rp =	Risk Premium					4.45%
	Shannon Pratt a	and Pogor (Grahowski		3.50% - 6.00%	to above
	Shannon Frace		pital, App & Exam,	, 5th Ed, 2014	5.50% - 0.00%	
	Dr. Aswath Dan	nodaran	p,	,, :	4.60%	chart page 15
			es.stern.nyu.edu/~ ied Premium	~adamodar/	4.45%	adjusted for Rf
Rf =	Risk Free Rate					4.03%
						to above
	Value Line Inve as of 12-29-23	stment Sur	vey, Selected Yi	elds January 12, 20	024, page 829	
		US Treasu	ry Securities year	end data		
				5 year	3.84%	
				10 year	3.88%	
	-			30 year	4.03% 4.00%	
				30 year Zero		
	Federal Reserve As of 12-29-23	• Statistical	Release (http:/	//www.federalrese	erve.gov/Releases/	H15/Current/)
	10 01 12 23 25	Treasury C	Constant Maturities	5		
				5 year	3.84%	
				10 year	3.88%	
				20 year 30 year	4.20% 4.03%	
				20 year TIPS	1.82%	2.38%
				30 year TIPS	1.90%	2.13%
						TIPS inflation indication
Inflat	tion					2.13%
						to appraisal template
	The Livingston	Survey Dec	ember 15, 2023,	. page 2, 8		
		-			lex) over next 10 years	2.26%
					al-time-center/livingstor	<u>n-survey</u>
Gross	Domestic Pro	duct (GDP) Nominal			3.93%
	Federal Deserve	Durington	Laws Due Daal (real GDP + inflation est
	Federal Reserve	-	Long Run Real G ection Value From D			1.80%
		-			omcprojtabl20231213.p	
	Congressional E	udget Offic	ce Real GDP Ecor	nomic Projections		
		The Budget	and Economic Outlo	ook 2024-2034		Table 2.3, pg 55
			rcentage Change Yea		2024-2028	2.20%
		https://www	w.cbo.gov/system/fil	les/2024-02/59710-Out	tle 2029-2034	1.90%
	Federal Reserve	Bank of P	hiladelphia			
		The Livings	ton Survey, Decemb	er 15, 2023, page 8		
		3-1	,,			

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT **DIVIDEND GROWTH MODEL**

Washington State Department of Revenue

2024 Assessment Year

Power Industry

Based on Dividend Growth

Ke = (D1 / Po) + G

- Ke = Cost of Equity
- Expected Dividends D1 =
- Po = G = Current Price Sustainable Growth

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Dividend Yield (D1/Po)	Dividend Growth (G)	Ke with Short Term Growth
AES Corp	aes	19.050	0.70	3.67%	3.50%	7.17%
Exelon Corp	exc	35.520	1.44	4.05%	NMF	NMF
NextEra Energy Inc	nee	60.190	2.06	3.42%	9.00%	12.42%
NRG Energy Inc	nrg	51.310	1.56	3.04%	4.00%	7.04%
Southern Co	SO	69.390	2.86	4.12%	3.50%	7.62%
Vistra Corp	vst	38.520	0.90	2.34%	11.00%	13.34%
				На	Mean Armonic Mean	9.52% 8.80%
Max 13.34 Min 7.04						7.62% 13.34% 7.04% 3.09%
				Coefficien	it of Variation Say	32.48% 9.25%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT **DIVIDEND GROWTH MODEL**

Washington State Department of Revenue

2024 Assessment Year

Power Industry

Based on Earnings Growth

Ke = (D1 / Po) + G

Ke =	Cost of Equity
D1 =	Expected Dividend

01 =	Expected	Dividends

Current Price Po = G =

Sustainable Growth

Company	Ticker	Stock Price (Po)	Expected Dividend (D1)	Dividend Yield (D1/Po)	Earnings Growth (G)	Ke with Short Term Growth
AES Corp	aes	19.050	0.70	3.67%	NMF	NMF
Exelon Corp	exc	35.520	1.44	4.05%	NMF	NMF
NextEra Energy Inc	nee	60.190	2.06	3.42%	8.50%	11.92%
NRG Energy Inc	nrg	51.310	1.56	3.04%	-2.00%	NMF
Southern Co	S0	69.390	2.86	4.12%	6.50%	10.62%
Vistra Corp	vst	38.520	0.90	2.34%	NMF	NMF
				На	Mean Armonic Mean	11.27% 11.23%
					Median Max Min Std Dev	11.27% 11.92% 10.62% 0.92%
L				Coefficien	<u>t of Variation</u> Sav	8.16% 11.25%

SUPPORT FOR YIELD CAPITALIZATION EQUITY COMPONENT DIVIDEND GROWTH MODEL

Washington State Department of Revenue

2024 Assessment Year

Power 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
AES Corp	aes	19.050	0.70	0.50	3.67%	95.9%	2.62%	2.52%	6.19%	5.14%
Exelon Corp	exc	35.520	1.44	2.45	4.05%	40.0%	6.90%	2.76%	6.81%	9.66%
NextEra Energy Inc	nee	60.190	2.06	3.40	3.42%	41.0%	5.65%	2.32%	5.74%	7.96%
NRG Energy Inc	nrg	51.310	1.56	3.50	3.04%	NMF	6.82%	NMF	NMF	NMF
Southern Co	SO	69.390	2.86	4.00	4.12%	23.0%	5.76%	1.33%	5.45%	7.09%
Vistra Corp	vst	38.520	0.90	4.20	2.34%	80.0%	10.90%	8.72%	11.06%	19.63%
								Mean rmonic Mean Median Std Dev t of Variation	6.61% 6.19% 2.30%	9.90% 8.12% 7.96% 5.68% 57.37%

Say 9.00%

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

Washington State Department of Revenue

2024 Assessment Year

Power Industry

Stock Expected Payout Ticker P/E ROE Ke Company Earnings Ratio NMF Price AES Corp Exelon Corp 19.05 38.10 7.00% 3.73% aes 0.50 14.50 60.00% 10.00% 10.60% exc 35.52 2.45 NextEra Energy Inc 60.19 3.40 17.70 61.00% 14.00% 8.44% nee 46.00% NMF NMF NRG Energy Inc 51.31 3.50 14.66 nrg Southern Co so 69.39 4.00 17.35 77.00% 13.00% 8.36% 25.50% Vistra Corp 38.52 4.20 9.17 20.00% 18.00% vst 52.80% 13.90% Mean 18.58 9.82% Harmonic Mean 15.52 42.45% 11.62% 7.62% Median 16.00 60.00% 13.00% 8.44% Industry Summary 16.50 50.00% 13.00% 9.00% Say

SUPPORT FOR DEBT RATING AND DEBT YIELD RATE

Washington State Department of Revenue

2024 Assessment Year

Power Industry

Company	Ticker	Mergent's Ratings	S&P Ratings	
AES Corp	aes	Baa3	BBB-	
Exelon Corp	exc	Baa2	BBB+	
NextEra Energy Inc	nee	Baa1	A-	
NRG Energy Inc	nrg	Ba1	BB	
Southern Co	SO	Baa2	BBB+	
Vistra Corp	vst	Ba1	BB	
Overall Average De	bt Rating	Baa3	BBB	

Mergent's Bond Record January 2024, page 101

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	6.33%	6.29%	6.28%

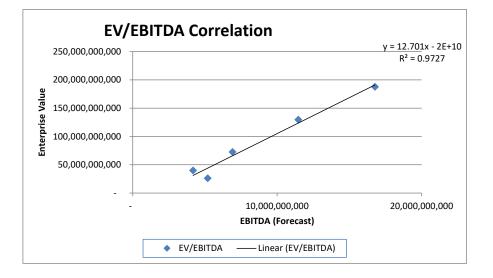
Debt Yield Rate	6.00%
Cost of Secured Debt (Operating Lease) Rate	5.00%

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	Cashflow Forecast	Debt Service	EV / CF Forecast
AES Corp	aes	19.05	39,909,500,000	3,365,000,000	24.00%	4,172,600,000	9.56	12,496,000,000	3.19	1,455,500,000	1,583,040,000	13.13
Exelon Corp	exc	35.52	72,588,400,000	6,799,000,000	1.63%	6,909,552,846	10.51	20,596,500,000	3.52	6,218,750,000	2,234,760,000	8.59
NextEra Energy In	nee	60.19	187,612,880,000	15,983,000,000	4.88%	16,762,658,537	11.19	28,420,200,000	6.60	13,235,400,000	3,846,180,000	10.98
NRG Energy Inc	nrg	51.31	21,256,150,300	262,000,000	NMF			30,595,110,000	0.69	1,644,227,000	634,440,000	9.33
Southern Co	S0	69.39	129,538,300,000	10,812,000,000	5.96%	11,456,423,841	11.31	28,248,000,000	4.59	8,560,000,000	3,300,000,000	10.92
Vistra Corp	vst	38.52	26,038,239,200	4,666,000,000	11.11%	5,184,444,444	5.02	16,501,047,000	1.58	3,830,914,000	858,840,000	5.55
6		Mean					9.52		3.36			9.75
		Harmonic Mean					8.67		1.97			9.06
		Median					10.51		3.36			10.13
		Std Dev					2.61		2.11			2.59
Source:		Say					10.00		3.25			9.00

Value Line & Morning Star



Forecast EV/EBITDA By Rank

	EV/EBITDA		
Guideline Companies	forecast	7.52	Low Harmonic Mea
Vistra Corp	5.02	8.36	Low Average
AES Corp	9.56	9.56	Low Median
Exelon Corp	10.51	8.50	Say
NextEra Energy Inc	11.19	10.99	High Harmonic Mea
Southern Co	11.31	11.00	High Average
	•	11.19	High Median
		11.00	Say

SUPPORT FOR DIRECT CAPITALIZATION EQUITY COMPONENT

2024 Assessment Year

Power Industry

			20)22)23	2	022	20)23
Company	Ticker	Stock Price		Earnings EPS/P)	Earning	ected gs Ratio PS/P)		low Ratio F/P)	-	ed Cash Ratio
AES Corp	aes	19.05	0.35	1.8%	0.50	2.6%	1.95	10.2%	2.05	10.8%
Exelon Corp	exc	35.52	2.35	6.6%	2.45	6.9%	6.15	17.3%	6.25	17.6%
NextEra Energy Inc	nee	60.19	3.17	5.3%	3.40	5.6%	6.15	10.2%	6.45	10.7%
NRG Energy Inc	nrg	51.31	1.12	2.2%	3.50	6.8%	4.20	NMF	7.90	15.4%
Southern Co	SO	69.39	3.60	5.2%	4.00	5.8%	7.55	10.9%	8.00	11.5%
Vistra Corp	vst	38.52	3.58	9.3%	4.20	10.9%	9.81	25.5%	10.90	28.3%
		Mean		5.1%		6.4%		14.8%		15.7%
		ic Mean Median Max Min Std Dev		3.7% 5.2% 9.3% 1.8% 2.8%		5.4% 6.3% 10.9% 2.6% 2.7%		13.0% 10.9% 25.5% 10.2% 6.7%		14.0% 13.5% 28.3% 10.7% 6.8%
Coeff	Coefficient of Variation 55.2°			55.2%		41.6%		44.9%		43.1%
		Say		5.0%		6.0 %		13.0%		14.0%

Source: Value Line / yr end stock price

SUPPORT FOR DIRECT CAPITALIZATION EQUITY COMPONENT 2024 Assessment Year Power Industry

_	L	Stock			Cash				Book	
Company	Ticker	Price	Revenues	Multiple	Flow	Multiple	Earnings	Multiple	Value	Multiple
AES Corp	aes	19.05	17.85	1.07	1.95	9.77	0.35	54.43	3.50	5.44
Exelon Corp	exc	35.52	20.50	1.73	6.15	5.78	2.35	15.11	25.50	1.39
NextEra Energy I	nee	60.19	13.70	4.39	6.15	9.79	3.17	18.99	23.15	2.60
NRG Energy Inc	nrg	51.31	138.57	0.37	4.20	12.22	1.12	45.81	13.97	3.67
Southern Co	S0	69.39	25.25	2.75	7.55	9.19	3.60	19.28	28.00	2.48
Vistra Corp	vst	38.52	42.05	0.92	9.81	3.93	3.58	10.76	15.10	2.55
		Mean		1.87		8.44		27.40		3.02
	Harmo	onic Mean		1.02		7.29		19.75		2.55
		Median		1.40		9.48		19.13		2.58
		Max		4.39		12.22		54.43		5.44
		Min		0.37		3.93		10.76		1.39
		Say		1.50		8.50		19.00		2.50

DATA INPUT

Washington State Department of Revenue

2024 Assessment Year

Power Industry

										Historic Fi	gures (2023)				
Guideline Companie	s	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	Common Shares	LTD (BV)	Trailing P/E Ratio	Div Yield	Operating Margin	Calculated Debt
Name	Ticker	Yahoo	VL	VL	VL	VL	VL	VL	VL	VL	V L	VL	VL	VL	Formula
AES Corp	aes	19.05	1.15	В	17.85	1.95	0.35	0.66	3.50	710,000,000	22,746,000,000	13.9	4.3%	28.5%	99.16%
Exelon Corp	exc	35.52	NMF	B++	20.50	6.15	2.35	1.44	25.50	995,000,000	39,431,000,000	16.0	4.3%	-	90.63%
NextEra Energy Inc	nee	60.19	1.00	А	13.70	6.15	3.17	1.87	23.15	2,052,000,000	61,405,000,000	18.7	3.5%	-	93.85%
NRG Energy Inc	nrg	51.31	1.10	B+	138.57	4.20	1.12	1.51	13.97	208,130,000	10,299,000,000	NMF	2.8%	11.5%	97.96%
Southern Co	so	69.39	0.95	А	25.25	7.55	3.60	2.78	28.00	1,070,000,000	51,606,000,000	13.6	4.1%	-	92.59%
Vistra Corp	vst	38.52	1.05	B+	42.05	9.81	3.58	0.82	15.10	351,460,000	12,116,000,000	15.5	1.5%	28.5%	99.39%
Average												15.5	average		

Harmonic Mean Median

15.3 harmonic mean

15.5 median

Value Line 240209, 240315

haı

				Projected (Next Year) 2024							
Payout Ratio	All Div'ds to Net Profits	Rtn on Shrhldrs Equity	Revenues Per Share	Cash Flow Per Share	Earnings Per Share	Dividends Per Share	Bk Value Per Share	All Div'ds to Net Profits	Rtn on Shrhldrs Equity	CF Projection 27-29	
Formula	VL	VL	VL	VL	VL	VL	VL	VL	VL	VL	
189%	4%	10.0%	17.60	2.05	0.50	0.70	6.85	NMF	7.0%	2.70	
61%	60%	9.5%	20.70	6.25	2.45	1.44	26.35	60%	10.0%	7.50	
59%	59%	13.6%	13.85	6.45	3.40	2.06	24.55	61%	14.0%	7.75	
NMF	NMF	NMF	147.00	7.90	3.50	1.56	13.25	46%	26.5%	8.20	
77%	77%	13.0%	26.40	8.00	4.00	2.86	29.90	77%	13.0%	9.25	
23%	20%	25.5%	46.95	10.90	4.20	0.90	17.75	20%	25.5%	15.45	
average	44%	14%								8.48	
rmonic mean	15%	13%								6.47	
median	59%	13.0%								7.98	

STOCK PRICE

Washington State Department of Revenue

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Power Industry

		47.09 2023 Year En
AES Date 29-Dec-23	aes Open High Low Close Adj Close Volume 19.18 19.41 19.14 19.25 19.05 3,749,600	19.05
Exelon Date 29-Dec-23	exc Open High Low Close Adj Close Volume 35.7 35.95 35.57 35.9 35.52 4,634,200	
NextEra Date 29-Dec-23	nee Open High Low Close Adj Close Volume 60.8 61.06 60.27 60.74 60.19 6,814,300	60.19
NRG Energy Date 29-Dec-23	nrg Open High Low Close Adj Close Volume 51.71 52.16 51.51 51.7 51.31 2,387,700	51.31
Southern Co Date 29-Dec-23		69.39
	vst Open High Low Close Adj Close Volume 38.76 38.9 38.34 38.52 38.52 2,312,400	38.52
Courses		

Source: finance.yahoo.com Historical Stock Quotes

IMPLIED PREMIUMS FOR US MARKET

These implied premiums are calculated using the S&P 500 Dividends* lends + Buybage in Earninge in Divide T.Bill Rate T.Bond Rate Bond-Bill arnings Yiellividend Yiel S&P 500 Earnings* oothed Grovd Premium t Growth Esed Premium ERP/Riskfree Rate Year d 2000 3.94% 1.23% 1320.28 56.13 16.27 #REF! #REF! 5.73% 5.11% -0.62% #REF! 1.65% 12.00% 2.87% 0.56 2001 3.85% 1.37% 1148.09 38.85 15.74 30.08 -30.79% -3.24% 1.80% 5.05% 3.25% 3.56% 1.73% 10.30% 3.62% 2.91% 0.72 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 40.60 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 73.16 11.93% 4.88% 4.70% -0.18% 5.93% 1.97% 12.50% 4.16% 6.12% 0.89 25.05 14.74% 82.54 27.73 95.36 -5.91% 3.31% 4.02% 5.00% 4.37% 4.59% 1.09 2007 5.62% 1.89% 1468.36 10.70% 0.71% 5.03% 2.06% 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% 1115.10 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 6.65% 1.84% 1257.64 83.66 55.53 40.25% 0.13% 3.29% 3.16% 3.33% 2.24% 6.95% 5.20% 6.09% 1.58 2010 23.12 3.63% 7.72% 71.28 8.34% 3.20 2.07% 1257.60 97.05 12.54% 1.88% 1.85% 2.75% 7.18% 2011 26.02 16.01% 0.03% 2.71% 6.01% 2012 2.13% 1426.19 102.47 30.44 1.76% 2.93% 5.27% 5.78% 7.30% 3.28 7.18% 75.90 5.58% 16.99% 0.05% 1.71% 2.47% 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% 2058.90 113.01 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 43.16 106.10 -5.92% 9.43% 0.21% 2.27% 2.06% 2.96% 2.46% 5.51% 6.12% 5.16% 2.70 108.67 5.54% 5.69% 4.50% 2016 4.86% 2.01% 2238.83 108.86 45.03 2.39% 4.33% 0.51% 2.45% 1.94% 2.64% 2.41% 2.32 2.36% 2017 4.67% 2673.61 124.94 49.73 108.28 14.77% 10.44% 1.39% 2.41% 1.02% 3.22% 7.05% 5.08% 4.75% 2.11 1.86% 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 58.80 150.50 9.44% 9.68% 1.55% 1.92% 0.37% 2.57% 3.96% 5.20% 5.06% 2.71 147.24 6.47% 4.24% 4.90% 4.33% 1.24% 4766.18 59.20 27.12% 0.68% 0.06% 1.45% 1.45% 2.81 2021 206.38 1.51% 1.72% 68.34 181.99 2022 5.72% 1.78% 3839.50 219.49 6.35% 15.44% 3.88% -0.54% 5.59% 2.16% 6.41% 5.94% 5.11% 1.53 4.42% 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

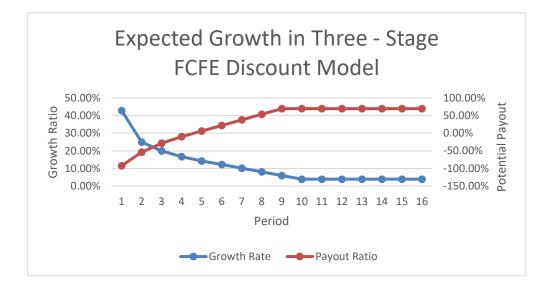
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http://pages.stern.nyu.edu/~adamodar

Updated January 2024

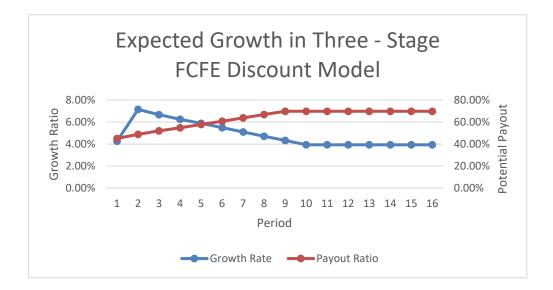
Company	AES Corp	3.93%	GDP
Ticker	aes	16.5	Industry P/E
		50.0%	Target Dividend Payout Ratio
		13.0%	Target ROE

	Year	Growth Rate	Reinvestment Rate	Payout Ratio	Earnings	FCFE	Terminal Value	Cash Flow
Historic	0		329.67%	-229.67%	0.35			(19.05)
	1	42.86%	192.31%	-92.31%	0.50	####		-0.46
	2	25.00%	153.85%	-53.85%	0.63	####		-0.34
Stage 1	3	20.00%	128.21%	-28.21%	0.75	####		-0.21
	4	16.67%	109.89%	-9.89%	0.88	####		-0.09
	5	14.29%	93.96%	6.04%	1.00	0.06		0.06
	6	12.21%	78.03%	21.97%	1.12	0.25		0.25
	7	10.14%	62.09%	37.91%	1.24	0.47		0.47
Stage 2	8	8.07%	46.16%	53.84%	1.34	0.72		0.72
	9	6.00%	30.23%	69.77%	1.42	0.99		0.99
	10	3.93%	30.23%	69.77%	1.47	1.03	25.23	26.26
Stage 3	11+	3.93%	30.23%	69.77%	1.53	1.07		
							K _e =	3.73%



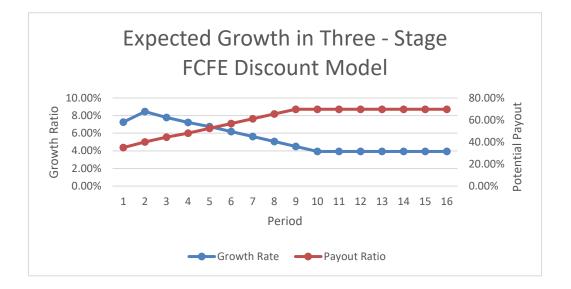
Company	Exelor	Corp	3.93%	GDP
Ticker	exc		16.5	Industry P/E
			50.0%	Target Dividend Payout Ratio
			13.0%	Target ROE

		Growth Reinvestment		Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		32.73%	67.27%	2.35			(35.52)
	1	4.26%	54.95%	45.05%	2.45	1.10		1.10
	2	7.14%	51.28%	48.72%	2.63	1.28		1.28
Stage 1	3	6.67%	48.08%	51.92%	2.80	1.45		1.45
	4	6.25%	45.25%	54.75%	2.98	1.63		1.63
	5	5.88%	42.25%	57.75%	3.15	1.82		1.82
	6	5.49%	39.24%	60.76%	3.32	2.02		2.02
	7	5.10%	36.24%	63.76%	3.49	2.23		2.23
Stage 2	8	4.71%	33.23%	66.77%	3.66	2.44		2.44
	9	4.32%	30.23%	69.77%	3.82	2.66		2.66
	10	3.93%	30.23%	69.77%	3.96	2.77	67.99	70.76
Stage 3	11+	3.93%	30.23%	69.77%	4.12	2.88		
							K _e =	10.60%



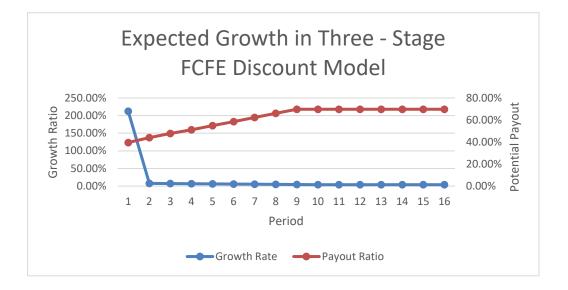
Company	NextE	ra Energy	3.93%	GDP
Ticker	nee		16.5	Industry P/E
			50.0%	Target Dividend Payout Ratio
			13.0%	Target ROE

		Growth	Reinvestment	Payout			Terminal	Cash
	Year	Rate	Rate	Ratio	Earnings	FCFE	Value	Flow
Historic	0		55.81%	44.19%	3.17			(60.19)
	1	7.26%	65.05%	34.95%	3.40	1.19		1.19
	2	8.46%	59.97%	40.03%	3.69	1.48		1.48
Stage 1	3	7.80%	55.64%	44.36%	3.98	1.76		1.76
	4	7.23%	51.88%	48.12%	4.26	2.05		2.05
	5	6.74%	47.55%	52.45%	4.55	2.39		2.39
	6	6.18%	43.22%	56.78%	4.83	2.74		2.74
	7	5.62%	38.89%	61.11%	5.10	3.12		3.12
Stage 2	8	5.06%	34.56%	65.44%	5.36	3.51		3.51
	9	4.49%	30.23%	69.77%	5.60	3.91		3.91
	10	3.93%	30.23%	69.77%	5.82	4.06	99.83	103.90
Stage 3	11+	3.93%	30.23%	69.77%	6.05	4.22		
							K _e =	8.44%



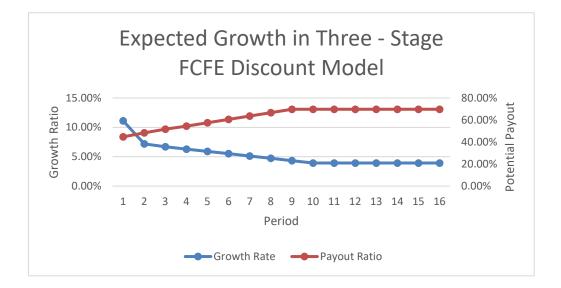
Company	NRG E	nergy Inc	3.93%	GDP
Ticker	nrg		16.5	Industry P/E
			50.0%	Target Dividend Payout Ratio
			13.0%	Target ROE

	Year	Growth Rate	Reinvestment Rate	Payout Ratio	Earnings	FCFE	Terminal Value	Cash Flow
Historic	0		1634.62%	-1534.62%	1.12			(51.31)
	1	212.50%	60.44%	39.56%	3.50	1.38		1.38
	2	7.86%	56.04%	43.96%	3.78	1.66		1.66
Stage 1	3	7.28%	52.23%	47.77%	4.05	1.93		1.93
	4	6.79%	48.91%	51.09%	4.33	2.21		2.21
	5	6.36%	45.17%	54.83%	4.60	2.52		2.52
	6	5.87%	41.44%	58.56%	4.87	2.85		2.85
	7	5.39%	37.70%	62.30%	5.13	3.20		3.20
Stage 2	8	4.90%	33.97%	66.03%	5.38	3.56		3.56
	9	4.42%	30.23%	69.77%	5.62	3.92		3.92
	10	3.93%	30.23%	69.77%	5.84	4.08	100.19	104.27
Stage 3	11+	3.93%	30.23%	69.77%	6.07	4.24		
							K _e =	10.63%



Company	South	ern Co	3.93%	GDP
Ticker	SO		16.5	Industry P/E use median
			50.0%	Target Dividend Payout Ratio
			13.0%	Target ROE

	Year	Growth Rate	Reinvestment Rate	Payout Ratio	Earnings	FCFE	Terminal Value	Cash Flow
Historic	0		85.47%	14.53%	3.60			(69.39)
	1	11.11%	55.29%	44.71%	4.00	1.79		1.79
	2	7.19%	51.58%	48.42%	4.29	2.08		2.08
Stage 1	3	6.71%	48.34%	51.66%	4.58	2.36		2.36
	4	6.28%	45.48%	54.52%	4.86	2.65		2.65
	5	5.91%	42.43%	57.57%	5.15	2.96		2.96
	6	5.52%	39.38%	60.62%	5.43	3.29		3.29
	7	5.12%	36.33%	63.67%	5.71	3.64		3.64
Stage 2	8	4.72%	33.28%	66.72%	5.98	3.99		3.99
	9	4.33%	30.23%	69.77%	6.24	4.35		4.35
	10	3.93%	30.23%	69.77%	6.49	4.53	111.23	115.75
Stage 3	11+	3.93%	30.23%	69.77%	6.74	4.70		
							K _e =	8.36%



Company	Vistra	Corp	3.93%	GDP
Ticker	vst		16.5	Industry P/E
			50.0%	Target Dividend Payout Ratio
			13.0%	Target ROE

	Year	Growth Rate	Reinvestment Rate	Payout Ratio	Earnings	FCFE	Terminal Value	Cash Flow
Historic	0		133.22%	-33.22%	3.58			(38.52)
	1	17.32%	132.78%	-32.78%	4.20	(1.38)		-1.38
	2	17.26%	113.24%	-13.24%	4.93	(0.65)		-0.65
Stage 1	3	14.72%	98.71%	1.29%	5.65	0.07		0.07
	4	12.83%	87.48%	12.52%	6.38	0.80		0.80
	5	11.37%	76.03%	23.97%	7.10	1.70		1.70
	6	9.88%	64.58%	35.42%	7.80	2.76		2.76
	7	8.40%	53.13%	46.87%	8.46	3.96		3.96
Stage 2	8	6.91%	41.68%	58.32%	9.04	5.27		5.27
	9	5.42%	30.23%	69.77%	9.53	6.65		6.65
	10	3.93%	30.23%	69.77%	9.91	6.91	169.86	176.77
Stage 3	11+	3.93%	30.23%	69.77%	10.29	7.18		
							K _e =	18.00%

