#### Exh. DCP-3 Page 1 of 2 Dockets UE-240004/UG-240005

## PUGET SOUND ENERGTY TOTAL COST OF CAPITAL DECEMBER 31, 2025

ltem	Percent		Cost		Weighted	Cost
Short-Term Debt	2.04%	1/	5.07%	3/	0.12%	5 4/
Long-Term Debt	49.46%	1/	5.27%	3/	2.63%	5/
Common Equity	48.50%	2/	<b>9.50%</b> 9.75%	10.00%	4.61% 4.73%	4.85%
Total	100.00%	_			<b>7.36%</b> 7.48%	7.60%

1/ Percentages of short-term and long-term debt derived from relative amounts of short-term debt and long-term debt as of December 31, 2025, as contained in response to WUTC Staff-026, Attachment B, page 2 of 4:

			ratio	
	Amount (000)	Percent	to 51.5%	_
				-
Short-Term Debt	\$229,672,000	3.97%	2.04%	
Long-Term Debt	\$5,556,860,000	96.03%	49.46%	
Total Debt	\$5,786,532,000		51.50%	-

2/ Common equity ratio approved for Puget Sound Energy by Commission in Dockets UE-170033/UG-170034 and Dockets UE-190529/UG-190530.

3/ Cost rates, as contained in Exh. CGP-6C, page 2 of 4.

4/ Includes 0.01% Commitment Fees and 0.01% Amortization of Short-Term Debt Issue, as contained in Exh. CGP-6C, page 1 of 4.

5/ Includes 0.02% Amortization of Reacquired Debt, as contained in Exh. CGP-6C, page 1 of 4.

#### Exh. DCP-3 Page 2 of 2 Dockets UE-240004/UG-240005

## PUGET SOUND ENERGTY TOTAL COST OF CAPITAL DECEMBER 31, 2026

Item	Percent		Cost		Weighted	Cost
Short-Term Debt	1.18%	1/	4.08%	3/	0.06%	6 4/
Long-Term Debt	50.32%	1/	5.36%	3/	2.71%	6 5/
Common Equity	48.50%	2/	<b>9.50%</b> 9.75%	10.00%	4.61% 4.73%	6 4.85%
Total	100.00%				<b>7.37%</b> 7.49%	7.62% %

1/ Percentages of short-term and long-term debt derived from relative amounts of short-term debt and long-term debt as of December 31, 2026, as contained in response to WUTC Staff-026, Attachment C, page 2 of 4.

	Amount (000)	Percent	to 51.5%	
				•
Short-Term Debt	\$170,702	2.28%	1.18%	
Long-Term Debt	\$7,306,860	97.72%	50.32%	_
Total Debt	\$7,477,562		51.50%	

2/ Common equity ratio approved for Puget Sound Energy by Commission in Dockets UE-170033/UG-170034 and Dockets UE-190529/UG-190530.

3/ Cost rates, as contained in Exh. CGP-7C, page 2 of 4.

4/ Includes 0.01% Commitment Fees, as contained in Exh. CGP-7C, page 1 of 4.

5/ Includes 0.01% Amortization of Reacquired Debt, as contained in Exh. CGP-7C, page 1 of 4.

Exh. DCP-4 Page 1 of 3 Dockets UE-240004/UG-240005

#### ECONOMIC INDICATORS

	Real GDP*	Industrial Production	Unemploy- ment	Consumer
Year	Growth	Growth	Rate	Price Index
		1975 - 1982 (		
1975	-1.1%	-8.9%	8.5%	7.0%
1976	5.4%	10.8%	7.7%	4.8%
1977	5.5%	5.9%	7.0%	6.8%
1978	5.0%	5.7%	6.0%	9.0%
1979	2.8%	4.4%	5.8%	13.3%
1980	-0.2%	-1.9%	7.0%	12.4%
1981	1.8%	1.9%	7.5%	8.9%
1982	-2.1%	-4.4%	9.5%	3.8%
Cycle Avg	2.1%	1.7%	7.4%	8.3%
		1983 - 1991 (	Cycle	
1983	4.0%	2.7%	9.6%	3.8%
1984	6.8%	9.3%	7.5%	3.9%
1985	3.7%	1.7%	7.2%	3.8%
1986	3.1%	0.9%	7.0%	1.1%
1987	2.9%	4.9%	6.2%	4.4%
1988	3.8%	4.5%	5.5%	4.4%
1989	3.5%	1.8%	5.3%	4.6%
1990	1.8%	-0.2%	5.6%	6.1%
1991	-0.5%	-2.0%	6.8%	3.1%
Cycle Avg	3.2%	2.6%	6.7%	3.9%
4000	0.0%	1992 - 2001		0.001
1992	3.0%	3.1%	7.5%	2.9%
1993	2.7%	3.4%	6.9%	2.7%
1994	4.0%	5.5%	6.1%	2.7%
1995	3.7%	4.8%	5.6%	2.5%
1996	4.5%	4.3%	5.4%	3.3%
1997	4.5%	7.3%	4.9%	1.7%
1998	4.2%	5.8%	4.5%	1.6%
1999	3.7%	4.5%	4.2%	2.7%
2000	4.1%	4.0%	4.0%	3.4%
2001	1.1%	-3.4% <b>3.9%</b>	4.7% <b>5.4%</b>	1.6% <b>2.5%</b>
Cycle Avg	3.6%	3.9%	5.4%	2.5%
2002	1.8%	<b>2002 - 2009</b> 0.2%	5.8%	2.4%
2003	2.8%	1.2%	6.0%	1.9%
2004	3.8%	2.3%	5.5%	3.3%
2005	3.4%	3.2%	5.1%	3.4%
2006	2.7%	2.2%	4.6%	2.5%
2007	1.8%	2.5%	4.6%	4.1%
2008	-0.3%	-3.6%	5.8%	0.1%
2009	-2.8%	-11.5%	9.3%	2.7%
Cycle Avg	1.7%	-0.4%	5.8%	2.6%
		2010 - 2020	Cycle	
2010	2.5%	5.5%	9.6%	1.5%
2011	1.5%	3.1%	8.9%	3.0%
2012	2.3%	3.0%	8.1%	1.7%
2013	2.1%	2.0%	7.4%	1.5%
2014	2.5%	3.0%	6.2%	0.8%
2015	2.9%	-1.4%	5.3%	0.7%
2016	1.8%	-2.1%	4.9%	2.1%
2017	2.5%	1.3%	4.4%	2.1%
	3.0%	3.2%	3.9%	1.9%
2018	2.5%	-0.7%	3.7%	2.3%
2019		-7.1%	8.1%	1.4%
2019 2020	-2.2%			
2019	-2.2% <b>1.9%</b>	0.9%	6.4%	1.7%
2019 2020 <b>Cycle Avg</b>	1.9%	0.9% Current Cy	cle	
2019 2020 <b>Cycle Avg</b> 2021	<b>1.9%</b> 5.8%	0.9% Current Cy 4.4%	7 <b>cle</b> 5.3%	7.0%
2019 2020 <b>Cycle Avg</b> 2021 2022	<b>1.9%</b> 5.8% 1.9%	0.9% Current Cy 4.4% 3.4%	7 <b>cle</b> 5.3% 3.6%	7.0% 6.5%
2019 2020 <b>Cycle Avg</b> 2021 2022 2023	<b>1.9%</b> 5.8%	0.9% Current Cy 4.4%	7 <b>cle</b> 5.3%	7.0%
2019 2020 <b>Cycle Avg</b> 2021 2022	<b>1.9%</b> 5.8% 1.9%	0.9% Current Cy 4.4% 3.4%	7 <b>cle</b> 5.3% 3.6%	7.0% 6.5%

\*GDP=Gross Domestic Product

Note that certain series of data are periodically revised.

Source: Council of Economic Advisors, Economic Indicators, various issues, certain earlier year data retrived from sources used by this publication.

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#### INTEREST RATES

Year	Prime Rate	US Treasury T Bills 3 Month	US Treasury T Bonds 10 Year	Utility Bonds Aa	Utility Bonds A	Utility Bonds Baa
		19	975 - 1982 Cycle			
1975	7.86%	5.84%	7.99%	9.44%	10.09%	10.96%
1976	6.84%	4.99%	7.61%	8.92%	9.29%	9.82%
1977	6.83%	5.27%	7.42%	8.43%	8.61%	9.06%
1978	9.06%	7.22%	8.41%	9.10%	9.29%	9.62%
1979	12.67% 15.27%	10.04% 11.51%	9.44%	10.22%	10.49%	10.96%
1980 1981	18.89%	14.03%	11.46% 13.93%	13.00% 15.30%	13.34% 15.95%	13.95% 16.60%
1982	14.86%	10.69%	13.00%	14.79%	15.86%	16.45%
Cycle Avg	11.54%	8.70%	9.91%	11.15%	11.62%	12.18%
		19	983 - 1991 Cycle			
1983	10.79%	8.63%	11.10%	12.83%	13.66%	14.20%
1984	12.04%	9.58%	12.44%	13.66%	14.03%	14.53%
1985	9.93%	7.48%	10.62%	12.06%	12.47%	12.96%
1986	8.33%	5.98%	7.68%	9.30%	9.58%	10.00%
1987	8.21%	5.82%	8.39%	9.77%	10.10%	10.53%
1988	9.32%	6.69%	8.85%	10.26%	10.49%	11.00%
1989	10.87%	8.12%	8.49%	9.56%	9.77%	9.97%
1990	10.01%	7.51%	8.55%	9.65% 9.09%	9.86%	10.06%
1991 Cycle Avg	8.46% <b>9.77%</b>	5.42% <b>7.25%</b>	7.86% <b>9.33%</b>	9.09% 10.69%	9.36% <b>11.04%</b>	9.55% <b>11.42%</b>
2		40	992 - 2001 Cycle			
1992	6.25%	3.45%	7.01%	8.55%	8.69%	8.86%
1993	6.00%	3.02%	5.87%	7.44%	7.59%	7.91%
1994	7.15%	4.29%	7.09%	8.21%	8.31%	8.63%
1995	8.83%	5.51%	6.57%	7.77%	7.89%	8.29%
1996	8.27%	5.02%	6.44%	7.57%	7.75%	8.16%
1997	8.44%	5.07%	6.35%	7.54%	7.60%	7.95%
1998	8.35%	4.81%	5.26%	6.91%	7.04%	7.26%
1999	8.00%	4.66%	5.65%	7.51%	7.62%	7.88%
2000	9.23%	5.85%	6.03%	8.06%	8.24%	8.36%
2001	6.91%	3.44%	5.02%	7.59%	7.78%	8.02%
Cycle Avg	7.74%	4.51%	6.13%	7.72%	7.85%	8.13%
			002 - 2009 Cycle			
2002	4.67%	1.62%	4.61%	7.19%	7.37%	8.02%
2003	4.12%	1.01%	4.01%	6.40%	6.58%	6.84%
2004 2005	4.34% 6.19%	1.38% 3.16%	4.27% 4.29%	6.04% 5.44%	6.16% 5.65%	6.40% 5.93%
2005	7.96%	4.73%	4.80%	5.84%	6.07%	6.32%
2000	8.05%	4.41%	4.63%	5.94%	6.07%	6.33%
2008	5.09%	1.48%	3.66%	6.18%	6.53%	7.25%
2009	3.25%	0.16%	3.26%	5.75%	6.04%	7.06%
Cycle Avg	5.46%	2.24%	4.19%	6.10%	6.31%	6.77%
		20	)10 - 2020 Cycle			
2010	3.25%	0.14%	3.22%	5.24%	5.46%	5.96%
2011	3.25%	0.06%	2.78%	4.78%	5.04%	5.57%
2012	3.25%	0.09%	1.80%	3.83%	4.13%	4.86%
2013	3.25%	0.06%	2.35%	4.24%	4.47%	4.98%
2014	3.25%	0.03%	2.54%	4.19%	4.28%	4.80%
2015	3.26%	0.06%	2.14%	4.00%	4.12%	5.03%
2016	3.51%	0.33% 0.94%	1.84%	3.73%	3.93%	4.69%
2017 2018	4.10% 4.91%	0.94% 1.94%	2.33% 2.91%	3.82% 4.09%	4.00% 4.25%	4.38% 4.67%
2010	5.28%	2.08%	2.14%	3.61%	3.77%	4.19%
2019	3.54%	0.38%	0.89%	2.79%	3.02%	3.39%
Cycle Avg	3.71%	0.56%	2.27%	4.03%	4.22%	4.77%
			Current Cycle			
2021	3.25%	0.04%	1.45%	2.97%	3.11%	3.36%
2022	4.86%	2.04%	2.95%	4.53%	4.72%	5.03%
2023	8.20%	5.08%	3.96%	5.39%	5.54%	5.84%
2024	0 500	F 6997	1.000	E 0 101		
Jan	8.50%	5.23%	4.06%	5.34%	5.48%	5.73%
Feb	8.50%	5.23%	4.21%	5.42%	5.56%	5.79%
Mar	8.50%	5.24%	4.21%	5.43% 5.67%	5.55%	5.79% 6.01%
Apr May	8.50% 8.50%	5.24% 5.25%	4.54% 4.48%	5.67% 5.62%	5.79% 5.74%	6.01% 5.97%
May June	8.50%	5.25%	4.40%	J.UZ 70	J.1470	5.31 70
		0.2070				

Sources: Council of Economic Advisors, Economic Indicators; Mergent Bond Record.

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#### STOCK PRICE INDICATORS

	S&P Composite [1]	NASDAQ Composite [1]	DJIA	S&P E/P
	19	75 - 1982 Cycle		
1975	10	1002 09010	802.49	9.15%
1976			974.92	8.90%
1977			894.63	10.79%
1978			820.23	12.03%
1979			844.40	13.46%
1980			891.41	12.66%
1981			932.92	11.96%
1982			884.36	11.60%
Cycle Avg			880.67	11.32%
	19	83 - 1991 Cycle		
1983			1,190.34	8.03%
1984			1,178.48	10.02%
1985			1,328.23	8.12%
1986			1,792.76	6.09%
1987 1988			2,275.99 2,060.82	5.48% 8.01%
1989	322.84		2,508.91	7.42%
1990	334.59		2,678.94	6.47%
1991	376.18	491.69	2,929.33	4.79%
Cycle Avg	576.10	401.00	1,993.76	7.16%
	10	92 - 2001 Cycle		
1992	415.74	\$599.26	3,284.29	4.22%
1993	451.21	715.16	3,522.06	4.46%
1994	460.33	751.65	3,793.77	5.83%
1995	541.64	925.19	4,493.76	6.09%
1996	670.83	1,164.96	5,742.89	5.24%
1997	872.72	1,469.49	7,441.15	4.57%
1998	1,085.50	1,794.91	8,625.52	3.46%
1999	1,327.33	2,728.15	10,464.88	3.17%
2000	1,427.22	2,783.67	10,734.90	3.63%
2001	1,194.18	2,035.00	10,189.13	2.95%
Cycle Avg	844.67	1,496.74	6,829.24	4.36%
2002	<b>20</b> 993.94	02 - 2009 Cycle 1,539.73	9,226.43	2.92%
2003	965.23	1,647.17	8,993.59	3.84%
2004	1,130.65	1,986.53	10,317.39	4.89%
2005	1,207.23	2,099.32	10,547.67	5.36%
2006	1,310.46	2,263.41	11,408.67	5.78%
2007	1,476.66	2,577.12	13,169.98	5.29%
2008	1,220.89	2,162.46	11,252.62	3.54%
2009	946.73	1,841.03	8,876.15	1.86%
Cycle Avg	1,156.47	2,014.60	10,474.06	4.19%
2010	<b>20</b> 1,139.97	10 - 2020 Cycle 2,347.70	10,662.80	6.04%
2010	1,268.89	2,680.42	11,966.36	6.77%
2012	1,379.56	2,965.77	12,967.08	6.20%
2012	1,462.51	3,537.69	14,999.67	5.57%
2014	1,930.67	4,374.31	16,773.99	5.25%
2015	2,061.20	4,943.49	17,590.61	4.59%
2016	2,092.39	4,982.49	17,908.08	4.17%
2017	2,448.22	6,231.28	21,741.91	4.22%
2018	2,744.68	7,419.27	25,045.75	4.66%
2019	2,912.50	7,936.85	26,378.41	4.53%
2020	3,218.50	10,192.67	26,906.89	3.28%
Cycle Avg	2,059.92	5,237.45	18,449.23	5.03%
2021	4,266.80	Current Cycle 14,358.18	34,009.89	3.79%
2021	4,200.00	12,242.17	34,009.89 32,911.74	3.79% 4.79%
2022	4,100.70	12,965.43	32,911.74	4.79%
2024	.,2020	2,000.10	,	
Q1	4,995.67	15,702.21	38,524.00	3.64%
Q2	5,254.29	16,659.64	38,811.45	

[1] Note: this source did not publish the S&P Composite prior to 1988 and the NASDAC Composite prior to 1991.

Source: Council of Economic Advisors, Economic Indicators, various issues.

## Exh. DCP-5 Dockets UE-240004/UG-240005

	Standard & Poor's		Moody's			
Year	Corp. Issuer	Sen. Secured	Corp. Issuer	Sen. Secured		
2016	BBB	A-	Baa1	A2		
2017	BBB	A-	Baa1	A2		
2018	BBB	A-	Baa1	A2		
2019	BBB	A-	Baa1	A2		
2020	BBB	A-	Baa1	A2		
2021	BBB	A-	Baa1	A2		
2022	BBB	A-	Baa1	A2		
2023	BBB	A-	Baa1	A2		
2024	BBB	A-	Baa1	A2		

# PUGET SOUND ENERGY HISTORY OF CREDIT RATINGS

Source: Response to Staff DR-005.

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## PUGET SOUND ENERGY CAPITAL STRUCTURE RATIOS REGULATED UTILITY BASIS 2019-2023 (\$000)

	COMMON	LONG-TERM	SHORT-TERM
YEAR	EQUITY 1/	DEBT 2/	DEBT
2019	\$4,009,572	\$4,059,142	\$341,629
	47.7%	48.3%	4.1%
	49.7%	50.3%	
2020	\$4,297,150	\$4,337,089	\$167,423
	48.8%	49.3%	1.9%
	49.8%	50.2%	
2021	\$4,471,264	\$4,468,766	\$178,375
	49.0%	49.0%	2.0%
	50.0%	50.0%	
2022	\$4,632,160	\$4,785,751	\$97,854
	48.7%	50.3%	1.0%
	49.2%	50.8%	
2023	\$4,954,382	\$5,034,823	\$62,400
	49.3%	50.1%	0.6%
	49.6%	50.4%	

Note: Percentages may not total 100.0% due to rounding.

1/ Regulated common equity.

2/ Includes current maturities.

Source: Response to Staff DR-004.

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## PUGET SOUND ENERGY CAPITAL STRUCTURE RATIOS CONSOLIDATED BASIS 2019-2023 (\$000)

YEAR	COMMON EQUITY	LONG-TERM DEBT	SHORT-TERM DEBT
2019	\$4,048,680	\$4,336,142	\$178,412
	47.3% 48.3%	50.6% 51.7%	2.1%
2020	\$4,181,409	\$4,338,044	\$376,212
	47.0% 49.1%	48.8% 50.9%	4.2%
2021	\$4,355,430	\$4,784,719	\$140,000
	46.9% 47.7%	51.6% 52.3%	1.5%
2022	\$4,871,083	\$4,786,765	\$357,000
	48.6% 50.4%	47.8% 49.6%	3.6%
2023	\$5,050,788	\$5,184,047	\$336,400
	47.8% 49.3%	49.0% 50.7%	3.2%

Note: Percentages may not total 100.0% due to rounding.

Source: Puget Energy, Inc. and Puget Sound Energy, Inc., Form 10-Ks.

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## PUGET ENERGY, INC. CAPITAL STRUCTURE RATIOS 2019 - 2023 (\$000)

	COMMON	LONG-TERM	SHORT-TERM
YEAR	EQUITY	DEBT 1/	DEBT
2019	\$4,000,299	\$6,372,737	\$176,000
	37.9%	60.4%	1.7%
	38.6%	61.4%	
2020	\$4,139,882	\$6,418,852	\$373,800
	37.9%	58.7%	3.4%
	39.2%	60.8%	
2021	\$4,563,316	\$6,653,766	\$140,000
	40.2%	58.6%	1.2%
	40.7%	59.3%	
2022	\$4,964,089	\$6,663,373	\$441,300
	41.1%	55.2%	3.7%
	42.7%	57.3%	
2023	\$4,960,382	\$7,036,642	\$598,100
	39.4%	55.9%	4.7%
	41.3%	58.7%	

1/ Includes current maturities.

Source: Response to Staff DR-004.

# PROXY COMPANIES COMMON EQUITY RATIOS (EXCLUDING SHORT-TERM DEBT)

COMPANY	2019	2020	2021	2022	2023	Average	2027-2029
Proxy Group							
ALLETE	61.4%	59.0%	59.8%	59.6%	53.8%	58.7%	59.5%
Avista Corp.	50.6%	49.6%	52.5%	49.6%	48.8%	50.2%	51.5%
Black Hills Corp	42.9%	42.1%	40.3%	45.4%	45.8%	43.3%	44.0%
IDACORP .	58.7%	56.1%	57.2%	56.1%	51.2%	55.9%	50.0%
MGE Energy	62.0%	64.5%	61.9%	64.2%	60.7%	62.7%	66.5%
NorthWestern Energy Group	47.5%	47.2%	47.8%	51.8%	50.9%	49.0%	49.5%
OGE Energy	56.4%	51.0%	47.4%	52.4%	49.6%	51.4%	50.0%
Otter Tail Corp	53.1%	58.2%	57.4%	58.3%	58.5%	57.1%	57.5%
Pinnacle West Capital	52.9%	47.2%	46.1%	43.9%	45.0%	47.0%	48.0%
Portland General Electric	48.7%	46.4%	43.2%	43.0%	44.2%	45.1%	41.0%
Average						52.0%	51.8%
Median						50.8%	50.0%

Source: Value Line Investment Survey.

## PROXY COMPANIES BASIS FOR SELECTION

Company	Market Capitalization (\$000)	Common Equity Ratio	Value Line Safety	S&P Bond Rating	Moody's Bond Rating
Puget Sound Energy		49.3%		BBB	Baa1
Parcell Proxy Group	\$1 - \$10 Billion	40% Plus	1, 2 or 3	Investm	ent Grade
ALLETE Avista Corp. Black Hills Corp IDACORP MGE Energy NorthWestern Energy Group OGE Energy Otter Tail Corp Pinnacle West Capital Portland General Electric	\$3,600,000 \$2,600,000 \$3,700,000 \$4,700,000 \$2,800,000 \$3,000,000 \$7,100,000 \$3,800,000 \$8,400,000 \$4,400,000	53.8% 48.8% 45.8% 51.2% 60.7% 50.9% 49.6% 58.3% 45.0% 44.2%	2 3 1 3 3 3 2 3 2 3 2	BBB BBB+ BBB AA- BBB BBB+ BBB BBB+ BBB+	Baa1 Baa2 Baa2 A1 Baa2 Baa1 Baa2 Baa2 A3
Bulkley Proxy Group ALLETE Alliant Energy Corp American Electric Power Co. Avista Corp Black Hills Corp CMS Energy Corp Duke Energy Entergy Corp. Evergy IDACORP MGE Energy NextEra Energy, Inc. NiSource Inc. NorthWestern Energy Group OGE Energy Corp Pinnacle West Capital Portland General Electric Southern Co	\$3,600,000 \$12,800,000 \$19,000,000 \$46,900,000 \$2,600,000 \$3,700,000 \$18,300,000 \$76,100,000 \$23,300,000 \$12,300,000 \$4,700,000 \$138,000,000 \$138,000,000 \$7,100,000 \$4,400,000 \$4,400,000 \$81,200,000	53.8% 45.2% 43.8% 42.0% 48.8% 45.8% <b>33.1%</b> 40.4% <b>38.6%</b> 48.0% 51.2% 60.7% 43.6% <b>35.0%</b> 50.9% 49.6% 45.0% 44.2% <b>37.6%</b>	2 2 1 3 3 2 2 2 2 2 1 3 3 2 2 3 3 3 2 2 2	BBB A- BBB+ BBB+ BBB+ BBB+ BBB+ BBB+ BBB	Baa1 Baa2 Baa2 Baa2 Baa2 Baa2 Baa2 Baa2
WEC Energy Group Xcel Energy Inc.	\$25,500,000 \$29,000,000	44.5% 41.4%	1 2	A- BBB+	Baa1 Baa1

Bold figures indicate criteria of Bulkley proxy group that do not satisfy criteria for Parcell proxy group.

Sources: Value Line, Moody's and S&P websites.

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# PROXY COMPANIES DIVIDEND YIELD

	Qtr	April - June 2024									
COMPANY	DPS	DPS	HİGH	LOW	AVERAGE	YIELD					
Proxy Group											
ALLETE	\$0.705	\$2.82	\$65.86	\$56.66	\$61.26	4.6%					
Avista Corp.	\$0.480	\$1.92	\$38.91	\$33.00	\$35.96	5.3%					
Black Hills Corp	\$0.650	\$2.60	\$58.80	\$50.73	\$54.77	4.7%					
IDACORP	\$0.830	\$3.32	\$99.21	\$88.70	\$93.96	3.5%					
MGE Energy	\$0.428	\$1.71	\$82.52	\$73.61	\$78.07	2.2%					
NorthWestern Energy Group	\$0.650	\$2.60	\$53.03	\$47.48	\$50.26	5.2%					
OGE Energy	\$0.418	\$1.67	\$37.30	\$32.37	\$34.84	4.8%					
Otter Tail Corp	\$0.468	\$1.87	\$97.19	\$81.65	\$89.42	2.1%					
Pinnacle West Capital	\$0.880	\$3.52	\$78.89	\$70.72	\$74.81	4.7%					
Portland General Electric	\$0.500	\$2.00	\$45.49	\$40.10	\$42.80	4.7%					
Average						4.2%					

Source: Yahoo! Finance.

## PROXY COMPANIES RETENTION GROWTH RATES

COMPANY	2019	2020	2021	2022	2023	Average	2024	2025	2027-2029	Average
Proxy Group										
ALLETE	2.3%	2.0%	1.5%	2.5%	3.5%	2.4%	2.5%	2.5%	3.5%	2.8%
Avista Corp.	4.9%	0.9%	1.4%	1.1%	1.2%	1.9%	1.5%	2.0%	2.0%	1.8%
Black Hills Corp	3.8%	3.8%	3.3%	3.4%	2.9%	3.4%	2.5%	3.0%	3.0%	2.8%
IDACORP	4.2%	3.9%	3.7%	3.7%	3.4%	3.8%	3.5%	3.5%	3.5%	3.5%
MGE Energy	4.6%	4.2%	5.0%	4.9%	5.0%	4.7%	6.0%	6.5%	7.0%	6.5%
NorthWestern Energy Group	3.1%	2.0%	2.3%	1.7%	1.4%	2.1%	2.0%	2.5%	3.0%	2.5%
OGE Energy	3.6%	2.8%	3.6%	3.0%	3.5%	3.3%	4.5%	4.5%	5.5%	4.8%
Otter Tail Corp	4.0%	4.1%	11.3%	12.4%	7.5%	7.9%	7.0%	7.0%	5.0%	6.3%
Pinnacle West Capital	3.8%	3.5%	4.2%	1.7%	1.9%	3.0%	2.0%	2.5%	3.0%	2.5%
Portland General Electric	3.1%	4.1%	3.5%	3.1%	1.6%	3.1%	3.0%	3.5%	3.5%	3.3%
Average						3.6%				3.7%

Source: Value Line Investment Survey.

## PROXY COMPANIES PER SHARE GROWTH RATES

	5-Y	ear Historio	Growth R	ates	Est'd '21-'23 to '27-'29 Growth Rates							
COMPANY	EPS	DPS	BVPS	Average	EPS	DPS	BVPS	Average				
Proxy Group												
ALLETE	0.5%	3.5%	3.0%	2.3%	6.0%	3.5%	3.5%	4.3%				
Avista Corp.	1.0%	4.5%	3.5%	3.0%	5.0%	4.0%	2.0%	3.7%				
Black Hills Corp	4.0%	6.0%	6.5%	5.5%	4.0%	4.0%	3.5%	3.8%				
IDACORP	3.5%	6.5%	4.5%	4.8%	5.5%	5.5%	4.0%	5.0%				
MGE Energy	6.5%	4.5%	6.0%	5.7%	7.0%	3.5%	4.5%	5.0%				
NorthWestern Energy Group	0.0%	3.5%	4.0%	2.5%	4.0%	2.0%	3.0%	3.0%				
OGE Energy	4.5%	6.5%	1.5%	4.2%	6.5%	3.0%	5.5%	5.0%				
Otter Tail Corp	14.5%	4.0%	6.0%	8.2%	4.5%	7.0%	8.0%	6.5%				
Pinnacle West Capital	2.0%	5.0%	3.5%	3.5%	4.5%	1.5%	4.5%	3.5%				
Portland General Electric	3.0%	6.0%	3.0%	4.0%	6.0%	5.5%	4.0%	5.2%				
Average				4.4%				4.5%				

Source: Value Line Investment Survey.

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## PROXY COMPANIES PROJECTIONS OF EARNINGS PER SHARE GROWTH

Proxy Group	Value Line	First Call	Zack's	Average
ALLETE	6.0%	8.10%	8.10%	7.4%
Avista Corp.	5.0%	6.20%	6.21%	5.8%
Black Hills Corp	4.0%	0.70%	na	2.4%
IDACORP	5.5%	4.40%	4.38%	4.8%
MGE Energy	7.0%	5.40%	5.35%	5.9%
NorthWestern Energy Group	4.0%	4.50%	5.16%	4.6%
OGE Energy	6.5%	-12.34%	5.00%	5.8%
Otter Tail Corp	4.5%	9.00%	na	6.8%
Pinnacle West Capital	4.5%	7.20%	8.22%	6.6%
Portland General Electric	6.0%	12.50%	5.14%	5.6%
Average				5.5%

Note: EPS growth rates in shaded cells are not included in averages, since they are outliers.

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## PROXY COMPANIES DCF COST RATES

COMPANY	ADJUSTED YIELD	HISTORIC RETENTION GROWTH	PROSPECTIVE RETENTION GROWTH	HISTORIC PER SHARE GROWTH	PROSPECTIVE PER SHARE GROWTH	PROJECTED EPS GROWTH	AVERAGE GROWTH	DCF RATES
Proxy Group								
ALLETE	4.7%	2.4%	2.8%	2.3%	4.3%	7.40%	3.9%	8.5%
Avista Corp.	5.4%	1.9%	1.8%	3.0%	3.7%	5.80%	3.2%	8.7%
Black Hills Corp	4.8%	3.4%	2.8%	5.5%	3.8%	2.35%	3.6%	8.4%
IDACORP	3.6%	3.8%	3.5%	4.8%	5.0%	4.76%	4.4%	8.0%
MGE Energy	2.3%	4.7%	6.5%	5.7%	5.0%	5.92%	5.6%	7.8%
NorthWestern Energy Group	5.2%	2.1%	2.5%	2.5%	3.0%	4.55%	2.9%	8.2%
OGE Energy	4.9%	3.3%	4.8%	4.2%	5.0%	5.75%	4.6%	9.5%
Otter Tail Corp	2.2%	7.9%	6.3%	8.2%	6.5%	6.75%	7.1%	9.3%
Pinnacle West Capital	4.8%	3.0%	2.5%	3.5%	3.5%	6.64%	3.8%	8.6%
Portland General Electric	4.8%	3.1%	3.3%	4.0%	5.2%	5.57%	4.2%	9.0%
Mean	4.3%	3.6%	3.7%	4.4%	4.5%	5.5%	4.3%	8.6%
Median	4.8%	3.2%	3.1%	4.1%	4.7%	5.8%	4.0%	8.6%
Composite - Mean		7.8%	8.0%	8.6%	8.8%	9.8%	8.6%	
Composite - Median		8.0%	7.9%	8.9%	9.5%	10.6%	8.8%	

Note: negative values not used in calculations.

Sources: Prior pages of this schedule.

## STANDARD & POOR'S 500 COMPOSITE 20-YEAR U.S. TREASURY BOND YIELDS RISK PREMIUMS

Year	EPS	BVPS	ROE	20-YEAR T-BOND YIELD	RISK PREMIU	
1977		\$79.07				
1978	\$12.33	\$85.35	15.00%	7.90%	7.10%	
1979	\$14.86	\$94.27	16.55%	8.86%	7.69%	
1980	\$14.82	\$102.48	15.06%	9.97%	5.09%	
1981	\$15.36	\$109.43	14.50%	11.55%	2.95%	
1982	\$12.64	\$112.46	11.39%	13.50%	-2.11%	
1983	\$14.03	\$116.93	12.23%	10.38%	1.85%	
1984	\$16.64	\$122.47	13.90%	11.74%	2.16%	
1985	\$14.61	\$125.20	11.80%	11.25%	0.55%	
1986	\$14.48	\$126.82	11.49%	8.98%	2.51%	
1987	\$17.50	\$134.07	13.42%	7.92%	5.50%	
1988	\$23.75	\$141.32	17.25%	8.97%	8.28%	
1989	\$22.87	\$147.26	15.85%	8.81%	7.04%	
1990	\$21.73	\$153.01	14.47%	8.19%	6.28%	
1991	\$15.97	\$158.85	10.24%	8.22%	2.02%	
1992	\$19.09	\$149.74	12.37%	7.26%	5.11%	
1993	\$21.89	\$180.88	13.24%	7.17%	6.07%	
1994	\$30.60	\$193.04	16.37%	6.59%	9.78%	
1995	\$33.96	\$216.51	16.58%	7.60%	8.98%	
1996	\$38.73	\$237.08	17.08%	6.18%	10.90%	
1997	\$39.72	\$249.52	16.33%	6.64%	9.69%	
1998	\$37.71	\$266.40	14.62%	5.83%	8.79%	
1999	\$48.17	\$290.68	17.29%	5.57%	11.72%	
2000	\$50.00	\$325.80	16.22%	6.50%	9.72%	
2001	\$24.69	\$338.37	7.43%	5.53%	1.90%	
2002	\$27.59	\$321.72	8.36%	5.59%	2.77%	
2003	\$48.74	\$367.17	14.15%	4.80%	9.35%	
2004	\$58.55	\$414.75	14.98%	5.04%	9.94%	
2005	\$69.93	\$453.06	16.12%	4.64%	11.48%	
2006	\$81.51	\$504.39	17.03%	5.00%	12.03%	
2007	\$66.18	\$529.59	12.80%	4.91%	7.89%	
2008	\$14.88	\$451.37	3.03%	4.36%	-1.33%	
2009	\$50.97	\$513.58	10.56%	4.11%	6.45%	
2010	\$77.35	\$579.14	14.16%	4.03%	10.13%	
2010	\$86.95	\$613.14	14.59%	3.62%	10.97%	
2012	\$86.51	\$666.97	13.52%	2.54%	10.98%	
2013	\$100.20	\$715.84	14.49%	3.12%	11.37%	
2013	\$102.31	\$726.96	14.18%	3.07%	11.11%	
2015	\$88.53	\$740.29	12.07%	2.55%	9.52%	
2016	\$94.55	\$768.98	12.53%	2.22%	10.31%	
2010	\$109.88	\$826.52	13.77%	2.65%	11.12%	
2017	\$132.39	\$851.62	15.78%	3.02%	12.76%	
2018	\$139.70	\$914.49	15.82%	2.40%	13.42%	
2019	\$94.13	\$927.52	10.22%	2.40% 1.35%	8.87%	
2020		\$927.52 \$1,008.02				
	\$197.90 \$172.78		20.45%	1.98%	18.47%	
2022		\$1,024.56 \$1,106,21	17.00%	3.30%	13.70% 13.80%	
2023	\$192.43	\$1,106.21	18.06%	4.26%	13.8	

Average

7.93%

Source: Standard & Poor's, Duff & Phelps.

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# PROXY COMPANIES CAPM COST RATES

COMPANY	RISK-FREE RATE	BETA	RISK PREMIUM	CAPM RATES
Proxy Group				
ALLETE	4.67%	0.95	6.4%	10.8%
Avista Corp.	4.67%	0.95	6.4%	10.8%
Black Hills Corp	4.67%	1.05	6.4%	11.4%
IDACORP	4.67%	0.85	6.4%	10.1%
MGE Energy	4.67%	0.80	6.4%	9.8%
NorthWestern Energy Group	4.67%	0.95	6.4%	10.8%
OGE Energy	4.67%	1.05	6.4%	11.4%
Otter Tail Corp	4.67%	0.95	6.4%	10.8%
Pinnacle West Capital	4.67%	0.95	6.4%	10.8%
Portland General Electric	4.67%	0.95	6.4%	10.8%
Mean				10.7%
Median				10.8%

Sources: Value Line Investment Survey, Standard & Poor's, Federal Reserve.

20-year Treas	ury Bonds
Month	Rate
Apr-24	4.77%
May-24	4.71%
June 24	4.54%
Average	4.67%

PROXY COMPANIES RATES OF RETURN ON AVERAGE COMMON EQUITY

COMPANY	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2009-2020 Average		2022	2023	2024	2025	2027-29	2021-29 Average
Proxy Group																												<u> </u>
ALLETE				12.0%	13.2%	13.4%	11.4%	7.3%	8.2%	9.5%	8.7%	8.4%	8.6%	9.4%	8.3%	8.0%	8.2%	7.8%	7.7%		8.3%	7.2%	7.3%	9.0%	8.0%	8.0%	9.0%	8.1%
Avista Corp.	4.5%	6.7%	4.6%	5.8%	8.8%	4.1%	7.6%	8.4%	8.5%	8.6%	6.4%	8.7%	8.1%	7.8%	8.6%	7.5%	7.8%	10.6%	6.5%	6.0%	8.1%	7.1%	6.9%	7.1%	7.5%	7.5%	8.5%	7.4%
Black Hills Corp	12.1%	8.9%	7.9%	9.4%	9.6%	10.9%	0.7%	8.4%	5.9%	3.6%	7.1%	9.1%	9.6%	9.5%	8.9%	10.9%	10.2%	9.4%	9.4%	8.5%	8.5%	8.9%	9.0%	8.5%	8.0%	8.0%	8.5%	8.5%
IDACORP	7.1%	4.2%	8.2%	7.3%	9.4%	7.1%	8.0%	9.3%	9.8%	10.5%	9.9%	10.1%	10.2%	9.7%	9.4%	9.6%	9.8%	9.6%	9.4%	7.3%	9.8%	9.4%	9.4%	9.1%	9.0%	9.0%	9.0%	9.2%
MGE Energy	13.2%	12.5%	11.4%	9.4%	11.8%	12.1%	11.8%	10.4%	11.3%	11.3%	11.4%	12.5%	12.6%	10.6%	10.7%	10.2%	10.6%	10.4%	10.1%	11.7%	11.0%	10.5%	9.0%	9.1%	11.0%	11.5%	12.0%	10.5%
NorthWestern Energy Group					6.4%	6.9%	8.4%	9.4%	9.6%	10.9%	9.3%	9.5%	10.3%	9.0%	10.0%	9.4%	9.1%	8.9%	7.9%		9.4%	8.3%	7.5%	7.1%	7.5%	8.0%	8.0%	7.7%
OGE Energy	11.1%	13.2%	12.7%	12.5%	15.0%	14.7%	13.0%	12.9%	13.5%	14.0%	13.2%	13.2%	12.5%	10.3%	10.0%	10.5%	10.8%	11.0%	10.7%	13.2%	11.9%	12.3%	10.7%	9.4%	12.5%	12.5%	13.0%	11.7%
Otter Tail Corp	15.2%	12.0%	10.8%	11.6%	10.4%	10.4%	5.9%	3.7%	2.1%	2.7%	6.9%	9.4%	10.3%	9.9%	9.7%	10.7%	11.4%	11.5%	11.6%	10.9%	8.3%	18.9%	25.5%	23.9.%	13.0%	12.5%	11.5%	16.3%
Pinnacle West Capital	8.6%	8.3%	8.2%	6.7%	9.2%	8.5%	6.1%	6.8%	9.3%	8.7%	9.8%	9.9%	9.2%	9.7%	9.4%	10.1%	9.9%	10.1%	9.9%	8.9%	9.4%	10.7%	8.1%	8.2%	8.0%	8.0%	8.5%	8.6%
Portland General Electric						11.5%	6.5%	6.2%	8.0%	9.0%	8.3%	7.7%	9.1%	8.2%	8.3%	8.6%	8.6%	8.4%	5.9%	9.0%	8.0%	9.1%	8.9%	7.4%	9.0%	9.5%	9.5%	8.9%
Average	10.3%	9.4%	9.1%	9.3%	10.4%	10.0%	7.9%	8.3%	8.6%	8.9%	9.1%	9.9%	10.1%	9.4%	9.3%	9.6%	9.6%	9.8%	8.9%	9.4%	9.3%	10.2%	10.2%	8.3%	9.4%	9.5%	9.8%	9.7%
Median	11.1%	8.9%	8.2%	9.4%	9.6%	10.7%	7.8%	8.4%	8.9%	9.3%	9.0%	9.5%	9.9%	9.6%	9.4%	9.9%	9.9%	9.9%	9.4%	9.4%	9.4%	9.3%	9.0%	8.5%	8.5%	8.5%	9.0%	8.8%

Note: The absence of figures for a specific company for a particular year is due to the fact that Value Line did not report the relevant figures (to calcuate the appropriate ratios) for that company for that year.

Source: Calculations made from data contained in Value Line Investment Survey.

## PROXY COMPANIES

MARKET TO BOOK RATIOS	MARKET	TO BOOK R/	ATIOS
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COMPANY	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2002-2008 Average	2009-202 Average
	2002	2000	2004	2000	2000	2007	2000	2003	2010	2011	2012	2010	2014	2010	2010	2017	2010	2013	2020	Average	Average
Proxy Group																					
ALLETE				212%	219%	195%	156%	113%	127%	138%	136%	152%	151%	146%	153%	182%	181%	189%	152%		152%
Avista Corp.	85%	94%	111%	115%	135%	127%	110%	94%	106%	119%	123%	125%	143%	141%	158%	174%	178%	160%	146%	111%	139%
Black Hills Corp	143%	134%	134%	165%	153%	164%	124%	77%	108%	109%	121%	161%	181%	152%	186%	207%	174%	191%	171%	145%	153%
DACORP	134%	112%	125%	122%	139%	132%	104%	94%	113%	119%	123%	136%	159%	158%	177%	203%	199%	212%	183%	124%	156%
MGE Energy	214%	223%	207%	207%	191%	178%	159%	154%	171%	182%	203%	214%	227%	217%	274%	298%	261%	285%	253%	197%	228%
NorthWestern Energy Group					160%	147%	109%	105%	122%	138%	146%	159%	174%	167%	171%	169%	154%	170%	154%		152%
OGE Energy	147%	154%	178%	187%	205%	197%	145%	139%	180%	197%	204%	231%	228%	184%	170%	192%	181%	206%	179%	173%	191%
Otter Tail Corp	245%	209%	185%	183%	178%	200%	167%	108%	120%	123%	152%	196%	196%	186%	207%	244%	253%	274%	217%	195%	190%
Pinnacle West Capital	116%	114%	130%	130%	129%	127%	100%	90%	113%	125%	141%	153%	158%	160%	172%	191%	182%	191%	169%	121%	154%
Portland General Electric					153%	140%	101%	83%	97%	109%	117%	131%	145%	148%	155%	173%	162%	179%	163%	131%	139%
Average	155%	149%	153%	165%	166%	161%	128%	106%	126%	136%	147%	166%	176%	166%	182%	203%	193%	206%	179%	150%	165%
Median	143%	134%	134%	174%	157%	156%	117%	100%	117%	124%	139%	156%	167%	159%	172%	192%	181%	191%	170%	145%	155%

Note: The absence of figures for a specific company for a particular year is due to the fact that Value Line did not report the relevant figures (to calcuate the appropriate ratios) for that company for that year.

Source: Calculations made from data contained in Value Line Investment Survey.

## BULKLEY PROXY COMPANIES RATES OF RETURN ON COMMON EQUITY MARKET TO BOOK RATIOS

	Actual Returns	s on Average Co	Estimated Returns on Equity				
COMPANY	2021	2022	2023	2024	2025	2027-29	
Bulkley Proxy Group							
ALLETE	7.2%	7.3%	9.0%	8.0%	8.0%	9.0%	
Alliant Energy Corp	11.3%	11.2%	10.8%	11.0%	11.5%	12.0%	
Ameren Corp	10.5%	10.6%	10.9%	11.0%	11.0%	10.0%	
American Electric Power Co.	11.6%	11.2%	11.0%	10.0%	10.0%	11.0%	
Avista Corp	7.1%	6.9%	7.1%	7.5%	7.5%	8.5%	
Black Hills Corp	8.9%	9.0%	8.5%	8.0%	8.0%	8.5%	
CMS Energy Corp	12.5%	12.5%	12.5%	12.5%	12.5%	12.5%	
Duke Energy	8.6%	8.6%	8.9%	9.0%	9.0%	9.0%	
Entergy Corp.	12.3%	9.0%	17.1%	9.0%	9.0%	10.0%	
Evergy	9.7%	7.9%	7.6%	9.0%	9.0%	10.0%	
DACORP	9.4%	9.4%	9.1%	9.0%	9.0%	9.0%	
MGE Energy	10.5%	9.0%	9.1%	11.0%	11.5%	12.0%	
NextEra Energy, Inc.	13.6%	15.0%	14.8%	14.0%	14.0%	13.0%	
NiSource Inc.	10.5%	11.0%	8.9%	8.5%	10.0%	11.0%	
NorthWestern Energy Group	8.3%	7.5%	7.1%	7.5%	8.0%	8.0%	
OGE Energy Corp	12.3%	10.7%	9.4%	12.5%	12.5%	13.0%	
Pinnacle West Capital	10.7%	8.1%	8.2%	8.0%	8.0%	8.5%	
Portland General Electric	9.1%	8.9%	7.4%	9.0%	9.0%	9.5%	
Southern Co	13.0%	13.3%	12.8%	13.0%	13.0%	14.5%	
WEC Energy Group	12.1%	12.5%	8.4%	12.5%	12.5%	13.0%	
Xcel Energy Inc.	10.6%	10.7%	10.8%	10.5%	11.0%	11.5%	
Average	10.5%	10.0%	10.0%	10.0%	10.2%	10.6%	
Median	10.5%	9.4%	9.1%	9.0%	10.0%	10.0%	

Source: Calculations made from data contained in Value Line Investment Survey.

## STANDARD & POOR'S 500 COMPOSITE RETURNS AND MARKET-TO-BOOK RATIOS 2002 - 2023

YEAR	RETURN ON AVERAGE EQUITY	MARKET-TO BOOK RATIO
2002	8.4%	295%
2003	14.2%	278%
2004	15.0%	291%
2005	16.1%	278%
2006	17.0%	277%
2007	12.8%	284%
2008	3.0%	224%
2009	10.6%	187%
2010	14.2%	208%
2011	14.6%	207%
2012	13.5%	214%
2013	14.5%	237%
2014	14.2%	268%
2015	11.8%	273%
2016	12.5%	271%
2017	13.8%	310%
2018	15.8%	316%
2019	15.8%	322%
2020	10.2%	378%
2021	20.5%	438%
2022	17.0%	409%
2023	18.1%	403%
Averages:		
2002-2008	12.4%	275%
2009-2023	14.5%	296%

Return on average equity = earnings per share divided by average of year-begin and year-end book value per share.

Market-to-book ratio = ratio of average stock price (average of high and low stock prices for each year) and average book value (average of year-begin and year-end book value per share).

Source: Standard & Poor's.

## **RISK INDICATORS**

COMPANY	VALUE LINE SAFETY	VALUE LINE BETA	VALUE LINE FINANCIAL STRENGTH	
Proxy Group				
ALLETE	2	0.95	А	4.00
Avista Corp.	3	0.95	B++	3.67
Black Hills Corp	3	1.05	B++	3.67
IDACORP	1	0.85	А	4.00
MGE Energy	3	0.80	B++	3.67
NorthWestern Energy Group	3	0.95	B+	3.33
OGE Energy	3	1.05	B++	3.67
Otter Tail Corp	2	0.95	А	4.00
Pinnacle West Capital	3	0.95	B++	3.67
Portland General Electric	2	0.95	B++	3.67
	2.5	0.95	B++	3.74

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# GROUPVALUE LINE<br/>SAFETYVALUE LINE<br/>BETAVALUE LINE<br/>FIN STRS & P's 500<br/>Composite2.41.04B++Proxy Group2.50.95B++

# **RISK INDICATORS**

Sources: Value Line Investment Survey, Standard & Poor's Stock Guide.

Definitions:

Safety rankings are in a range of 1 to 5, with 1 representing the highest safety or lowest risk.

Beta reflects the variability of a particular stock, relative to the market as a whole. A stock with a beta of 1.0 moves in concert with the market, a stock with a beta below 1.0 is less variable than the market, and a stock with a beta above 1.0 is more variable than the market.

Financial strengths range from C to A++, with the latter representing the highest level.

Common stock rankings range from D to A+, with the later representing the highest level.

### **RISK PREMIUM ANALYSIS**

Line N	0.	Low	High	Source	Low	High
	-	2012 - 20	019 Period	_	2012 - 2023 Period	
1	Risk Premium Range	4.84%	5.01%	1/	5.04%	5.10%
2	Current level of Baa-rated Utility bonds	5.92%	5.92%	2/	5.92%	5.92%
3	Interest Rate Range	4.45%	5.17%	3/	3.28%	5.54%
4	Difference in Interest Rate Levels	1.47%	0.75%	4/	2.64%	0.38%
5	Relationship between Interest Rates and Risk Premiums	-0.576 `	-0.576	5/	-0.576	-0.576
6	Required change in Risk Premium	-0.85%	-0.43%	6/	-1.52%	-0.22%
7	Risk Premium	3.99%	4.58%	7/	3.52%	4.88%
8	RP Result	9.91%	10.50%	8/	9.44%	10.80%

1/ As developed in testimony and page 2 of this exhibit.

2/ Average yield on Baa-rated utility bonds for three-month period April - June. 2024, as shown on Exh. DCP-15, page 2.

3/ As shown on page 2 of this exhibit.

4/ Difference between lines 2 and 3.

5/ As shown in Direct Testimony of PSE witness Bulkley on Exh. AEB-9, page 4.

6/ Lines 4 times lines 5.

7/ Lines 1 plus 6.

8/ Lines 2 plus lines 7.

#### RISK PREMIUM ANALYSIS CALCULATION OF RISK PREMIUMS

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2012-19 Average	2012-23 Average
Average Authorized ROE General Rate Cases	10.02%	9.82%	9.76%	9.60%	9.60%	9.68%	9.56%	9.65%	9.39%	9.39%	9.58%	9.66%	9.71%	9.64%
Annual Average Yields on Baa rated Utility Bonds														
No Lag	4.86%	4.98%	4.80%	5.03%	4.68%	4.38%	4.67%	4.19%	3.39%	3.36%	5.03%	5.84%	4.70%	4.60%
3 Months Lag	5.00%	4.81%	4.93%	4.82%	4.91%	4.48%	4.48%	4.50%	3.53%	3.33%	4.37%	5.78%	4.74%	4.58%
6 Months Lag	5.12%	4.70%	5.07%	4.68%	5.18%	4.46%	4.38%	4.71%	3.71%	3.00%	3.85%	5.61%	4.79%	4.54%
9 Months Lag	5.32%	4.78%	5.07%	4.65%	5.24%	4.50%	4.32%	4.77%	3.92%	3.33%	3.49%	5.44%	4.83%	4.57%
12 Months Lag	5.57%	4.86%	4.96%	4.80%	5.03%	4.68%	4.38%	4.67%	4.19%	3.39%	3.36%	5.03%	4.87%	4.58%
Average	<b>5.17%</b> 5.17%	4.83% 4.83%	4.97% 4.97%	4.80% 4.80%	5.01% 5.01%	4.50% 4.50%	<b>4.45%</b> 4.45%	4.57% 4.57%	3.75%	3.28%	4.02%	5.54%	4.79%	4.57%
Risk Premiums of ROEs vs Baa rated Utility Bonds														
No Lag	5.16%	4.84%	4.96%	4.57%	4.92%	5.30%	4.89%	5.46%	6.00%	6.03%	4.55%	3.82%	5.01%	5.04%
3 Months Lag	5.02%	5.01%	4.83%	4.78%	4.69%	5.20%	5.08%	5.15%	5.86%	6.06%	5.21%	3.88%	4.97%	5.06%
6 Months Lag	4.90%	5.12%	4.69%	4.92%	4.42%	5.22%	5.18%	4.94%	5.68%	6.39%	5.73%	4.05%	4.92%	5.10%
9 Months Lag	4.70%	5.04%	4.69%	4.95%	4.36%	5.18%	5.24%	4.88%	5.47%	6.06%	6.09%	4.22%	4.88%	5.07%
12 Months Lag	4.45%	4.96%	4.80%	4.80%	4.57%	5.00%	5.18%	4.98%	5.20%	6.00%	6.22%	4.63%	4.84%	5.07%
Average	4.85%	4.99%	4.79%	4.80%	4.59%	5.18%	5.11%	5.08%	5.64%	6.11%	5.56%	4.12%	4.93%	5.07%

Sources: S&P Global Intelligence; Mergent Bond Record.

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#### RISK PREMIUM ANALYSIS YIELDS ON Baa RATED PUBLIC UTILITY BONDS

Year/Month	Yield	Annual Average Yield	3-Month Lagged Average Yield	6-Month Lagged Average Yield	9-Month Lagged Average Yield	12-Month Lagged Average Yield		Yield	Annual Average Yield	3-Month Lagged Average Yield	6-Month Lagged Average Yield	9-Month Lagged Average Yield	12-Mont Lagged Average Yield
2011							0010						
2011 Jan	6.06%						2018 Jan	4.18%					
Feb	6.10%						Feb	4.42%					
Mar	5.97%						Mar	4.52%					
Apr	5.98%						Apr	4.58%					
May	5.74%						May	4.71% 4.71%					
Jun Jul	5.67% 5.70%						Jun Jul	4.71%					
Aug	5.22%						Aug	4.64%					
Sep	5.11%						Sep	4.74%					
Oct	5.24%						Oct	4.91%					
Nov	4.93%	E E70/					Nov	5.03%	4 670/	4 400/	4.200/	4.000/	4 200/
Dec 2012	5.07%	5.57%					Dec 2019	4.92%	4.67%	4.48%	4.38%	4.32%	4.38%
Jan	5.06%						Jan	4.91%					
Feb	5.02%						Feb	4.76%					
Mar	5.13%						Mar	4.65%					
Apr	5.11%						Apr	4.55%					
May Jun	4.97% 4.91%						May Jun	4.47% 4.31%					
Jul	4.85%						Jul	4.13%					
Aug	4.88%						Aug	3.63%					
Sep	4.81%						Sep	3.71%					
Oct	4.54%						Oct	3.72%					
Nov	4.42%	4.00%	E 00%	5.12%	5 200/	E E70/	Nov	3.76%	4.400/	4 50%	4 740/	4 770/	4 670/
Dec 013	4.56%	4.86%	5.00%	5.12%	5.32%	5.57%	Dec 2020	3.73%	4.19%	4.50%	4.71%	4.77%	4.67%
Jan	4.66%						Jan	3.60%					
Feb	4.74%						Feb	3.42%					
Mar	4.72%						Mar	3.96%					
Apr	4.49%						Apr	3.82%					
May	4.65% 5.08%						May Jun	3.63% 3.44%					
Jun Jul	5.21%						Jul	3.09%					
Aug	5.28%						Aug	3.06%					
Sep	5.31%						Sep	3.17%					
Oct	5.17%						Oct	3.27%					
Nov Dec	5.24%	4.98%	4.81%	4.70%	4.76%	4.86%	Nov Dec	3.17%	3.39%	3.53%	3.71%	3.92%	4.19%
014	5.25%	4.96%	4.01%	4.70%	4.70%	4.00%	2021	3.05%	3.39%	3.53%	3.71%	3.92%	4.19%
Jan	5.09%						Jan	3.18%					
Feb	5.01%						Feb	3.37%					
Mar	5.00%						Mar	3.72%					
Apr	4.85%						Apr	3.57%					
May Jun	4.69% 4.73%						May Jun	3.58% 3.41%					
Jul	4.66%						Jul	3.20%					
Aug	4.65%						Aug	3.19%					
Sep	4.79%						Sep	3.19%					
Oct	4.67%						Oct	3.32%					
Nov Dec	4.75% 4.70%	4.80%	4.93%	5.07%	5.07%	4.98%	Nov Dec	3.25% 3.36%	3.36%	3.33%	3.30%	3.33%	3.39%
015	4.7070	4.0070	4.0070	0.01 /0	0.0170	4.0070	2022	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070
Jan	4.39%						Jan	3.57%					
Feb	4.44%						Feb	3.95%					
Mar	4.51%						Mar	4.28%					
Apr May	4.51% 4.91%						Apr May	4.61% 5.07%					
Jun	5.13%						Jun	5.22%					
Jul	5.22%						Jul	5.15%					
Aug	5.23%						Aug	5.09%					
Sep	5.42%						Sep	5.61%					
Oct Nov	5.47% 5.57%						Oct Nov	6.18% 6.05%					
Dec	5.55%	5.03%	4.82%	4.68%	4.65%	4.80%	Dec	6.05% 5.57%	5.03%	4.37%	3.85%	3.49%	3.36%
016		2.3070					2023	2.2. /0			2.3070	2.1070	2.0070
Jan	5.49%						Jan	5.49%					
Feb	5.28%						Feb	5.54%					
Mar	5.12%						Mar	5.68%					
Apr May	4.75% 4.60%						Apr May	5.47% 5.71%					
Jun	4.60%						Jun	5.71%					
Jul	4.16%						Jul	5.73%					
Aug	4.20%						Aug	6.08%					
Sep	4.27%						Sep	6.15%					
Oct	4.34%						Oct	6.61%					
Nov Dec	4.64% 4.79%	4.68%	4.91%	5.18%	5.24%	5.03%	Nov Dec	6.20% 5.68%	5.84%	5.78%	5.61%	5.44%	5.03%
017	4.1370	4.0070	4.3170	0.1070	J.24 %	0.00%	Dec	0.00%	0.0470	0.1070	0.0170	J.4470	5.05%
Jan	4.62%												
Feb	4.58%												
Mar	4.62%												
Apr	4.51%												
May	4.50%												
Jun Jul	4.32% 4.36%												
Aug	4.30%												
Sep	4.24%												
Oct	4.26%												
Nov	4.16%												
Dec	4.14%	4.38%	4.48%	4.46%	4.50%	4.68%							

Source: Mergent Bond Record.