



MONTANA
DEPARTMENT OF
REVENUE

**2024 Capitalization Rate Study
Electric Utilities**

Completed: April 26, 2024

MONTANA DEPARTMENT OF REVENUE

Yield Capitalization Rate Conclusion

Industry: Electric Utilities

2024 Assessment Year

Capital Structure ^[1]

Equity	60.00%
Debt	40.00%

Equity Cost of Capital

		Weighting
Capital Asset Pricing Model - Ex Post ^[2]	11.01%	48%
Capital Asset Pricing Model - Ex Ante ^[2]	8.84%	12%
3 Stage Dividend Discount Model - Dividends ^[3]	8.68%	20%
3 Stage Dividend Discount Model - Earnings ^[3]	9.52%	20%
Weighted Average	9.99%	100%
Selected Cost of Equity	9.99%	

Debt Cost of Capital

		Weighting
A - Mergent's - Avg. YTM of A Rated Corporate Bonds ^[4]	5.12%	0%
Baa - Mergent's - Avg. YTM of Baa Rated Corporate Bonds ^[4]	5.59%	100%
Ba - MTDOR High Yield Debt Study ^[5]	6.70%	0%
B - MTDOR High Yield Debt Study ^[5]	7.67%	0%
Weighted Average	5.59%	100%
Selected Cost of Debt	5.59%	

Weighted Average Cost of Capital (WACC)

Source of Capital	Capital Structure	Cost of Capital	Marginal Tax Rate	Pre-tax Cost of Capital	After-tax Cost of Capital
Equity	60.00%	9.99%		5.99%	5.99%
Debt	40.00%	5.59%	24.00%	2.24%	1.70%
WACC	100.00%			8.23%	7.69%
WACC (Rounded)					7.70%

Notes

- [1] From worksheet: Capital Structure
- [2] From worksheet: Capital Asset Pricing Model Summary
- [3] From worksheet: Yield Equity Summary
- [4] January 2024, Mergent Bond Record
- [5] Montana Department of Revenue High Yield Debt Study

MONTANA DEPARTMENT OF REVENUE

Direct Capitalization Rate Conclusion

Industry: Electric Utilities

2024 Assessment Year

Capital Structure ^[1]

Equity	60.00%
Debt	40.00%

Equity Capitalization Rate ^[2]

NOI After-tax	6.25%
GCF	13.21%

Debt Capitalization Rate ^[3]

Calculated Current Yield	4.92%
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NOI After-tax Direct Capitalization Rate - If Using Marginal Tax

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate
Equity	60.00%	6.25%		3.75%	3.75%
Debt	40.00%	4.92%	24.00%	1.97%	1.50%
Total	100.00%			5.72%	5.24%
Total (Rounded)					5.25%

GCF Direct Capitalization Rate - If Using Marginal Tax

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	Pre-tax Capitalization Rate	After-tax Capitalization Rate
Equity	60.00%	13.21%		7.92%	7.92%
Debt	40.00%	4.92%	24.00%	1.97%	1.50%
Total	100.00%			9.89%	9.42%
Total (Rounded)					9.45%

Notes:

[1] From worksheet: Capital Structure

[2] From worksheet: Direct Equity Summary

[3] From worksheet: Calculated Current Yield

MONTANA DEPARTMENT OF REVENUE

Direct Capitalization Rate Conclusion - Using Regulatory Tax Structure (Pre-Tax Debt)

Industry: Electric Utilities

2024 Assessment Year

Capital Structure ^[1]

Equity	60.00%
Debt	40.00%

Equity Capitalization Rate ^[2]

NOI After-tax	6.25%
GCF	13.21%

Debt Capitalization Rate ^[3]

Calculated Current Yield	4.92%
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NOI After-tax Direct Capitalization Rate - If Using Regulatory Tax Str.

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	After-tax Capitalization Rate	Weighted Capitalization Rate
Equity	60.00%	6.25%		6.25%	3.75%
Debt	40.00%	4.92%		4.92%	1.97%
Total	100.00%				5.72%
Total (Rounded)					5.75%

GCF Direct Capitalization Rate - If Using Regulatory Tax Str.

Source of Capital	Capital Structure	Capitalization Rate	Marginal Tax Rate	After-tax Capitalization Rate	Weighted Capitalization Rate
Equity	60.00%	13.21%		13.21%	7.92%
Debt	40.00%	4.92%		4.92%	1.97%
WACC	100.00%				9.89%
Total (Rounded)					9.90%

Notes:

[1] From worksheet: Capital Structure

[2] From worksheet: Direct Equity Summary

[3] From worksheet: Calculated Current Yield

MONTANA DEPARTMENT OF REVENUE

Selection of Guideline Companies

Industry: Electric Utilities

2024 Assessment Year

Screening Requirements:

The universe of companies is all companies listed in Value Line under the Electric Utility (West) & (Central) industries.

Companies were then selected using the following screening criteria:

1. Primarily supplies electricity to residential and commercial customers.
2. Headquartered and primarily operated in the United States.
3. Regulated by a state commission.
4. Generation portfolio primarily composed of coal, natural gas, renewables, and/or hydroelectric.
5. Not engaged in material M&A activity.

Ticker Symbol	Residential & Commercial Sales	Primarily in the US	Regulated	Generating portfolio sufficiently compatible	Consider as Potential Guideline Company	Not Engaged in Material M&A Activity	Use as Guideline Company	Note
AEE	83%	Yes	Yes	Yes	Yes	Yes	Yes	
AEP	66%	Yes	Yes	Yes	Yes	Yes	Yes	
ALE	21%				No			
AVA	68%	Yes	Yes	Yes	Yes	Yes	Yes	
BKH	74%	Yes	Yes	Yes	Yes	Yes	Yes	
CMS	78%		No		No			
CNP		Yes	Yes		Yes	Yes	Yes	
DTE	83%	Yes	Yes	Yes	Yes	Yes	Yes	
EIX	82%			No	No			
ETR	61%	Yes	Yes	Yes	Yes	Yes	Yes	
EVRG	59%	Yes	Yes	Yes	Yes	Yes	Yes	
FTS.TO		No			No			
HE				No	No			
IDA	65%	Yes	Yes	Yes	Yes	Yes	Yes	
LNT	61%	Yes	Yes	Yes	Yes	Yes	Yes	
MGEE	85%	Yes	Yes	Yes	Yes	Yes	Yes	
NWE	91%	Yes	Yes	Yes	Yes	Yes	Yes	
OGE	69%	Yes	Yes	Yes	Yes	Yes	Yes	
OTTR	68%				No			[2]
PNM	56%				No			[1]
PNW	88%			No	No			
POR	85%	Yes	Yes	Yes	Yes	Yes	Yes	
SRE				No	No			
WEC	71%	Yes	Yes	Yes	Yes	Yes	Yes	
XEL	77%	Yes	Yes	Yes	Yes	Yes	Yes	

[1] AVANGRID merger talks ongoing

[2] Plastics division is large portion of operating income

MONTANA DEPARTMENT OF REVENUE

**Support for Capital Structure
Industry: Electric Utilities
2024 Assessment Year**

(\$ and Shares Outstanding In Thousands, except per share amounts)

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Ticker	Company	Industry Group	Financial Strength	Shares Outstanding	End of Year Closing Stock Price	MV Common Stock	MV Preferred Stock	MV Long Term Debt	PV of Operating Leases	Total Common, Preferred, LT Debt, & Op Leases	% Common	% Preferred	% Debt & Op Leases
							Note [1]	Note [2]					
AEE	Ameren Corp.	UTILCENT	A	266,289	72.34	19,263,336	0	14,833,000	0	34,096,336	56%	0%	44%
AEP	Amer. Elec. Power	UTILCENT	A+	526,185	81.22	42,736,713	0	37,325,700	635,100	80,697,513	53%	0%	47%
AVA	Avista Corp.	UTILWEST	B+	78,075	35.74	2,790,386	0	2,149,914	68,049	5,008,349	56%	0%	44%
BKH	Black Hills	UTILWEST	B++	68,197	53.95	3,679,227	0	4,215,600	0	7,894,827	47%	0%	53%
CNP	CenterPoint Energy	UTILCENT	B++	631,226	28.57	18,034,122	0	17,804,000	13,000	35,851,122	50%	0%	50%
DTE	DTE Energy	UTILCENT	B++	206,357	110.26	22,752,931	0	18,203,000	125,000	41,080,931	55%	0%	45%
ETR	Energy Corp.	UTILCENT	B++	212,849	101.19	21,538,147	0	22,489,174	207,416	44,234,737	49%	0%	51%
EVERG	Evergy Inc.	UTILCENT	B++	229,729	52.20	11,991,869	0	11,044,900	71,400	23,108,169	52%	0%	48%
IDA	IDACORP Inc.	UTILWEST	A	50,615	98.32	4,976,490	0	2,684,278	0	7,660,768	65%	0%	35%
LNT	Alliant Energy	UTILCENT	B++	256,097	51.30	13,137,768	0	8,677,000	23,000	21,837,768	60%	0%	40%
MGEE	MGE Energy	UTILCENT	B++	36,163	72.31	2,614,946	0	671,344	7,915	3,294,205	79%	0%	21%
NWE	NorthWestern Corp.	UTILWEST	B+	64,762	50.89	3,295,734	0	2,529,829	0	5,825,563	57%	0%	43%
OGE	OGE Energy	UTILCENT	B++	200,330	34.93	6,997,539	0	4,114,800	30,500	11,142,839	63%	0%	37%
POR	Portland General	UTILWEST	B++	101,160	43.34	4,384,257	0	4,014,000	19,000	8,417,257	52%	0%	48%
WEC	WEC Energy Group	UTILCENT	A+	315,435	84.17	26,550,124	0	15,710,200	43,500	42,303,824	63%	0%	37%
XEL	Xcel Energy Inc.	UTILWEST	A	554,942	61.91	34,356,441	0	22,927,000	1,264,000	58,547,441	59%	0%	41%
All Companies						239,100,030	0	189,393,739	2,507,880	431,001,649	55%	0%	45%
Average											57%	0%	43%
Median											56%	0%	44%
Trimmed Average											56%	0%	44%
High											79%	0%	53%
Low											47%	0%	21%
Selected											60%		40%

Notes

- [1] Market value of preferred stock assumed to equal book value
- [2] Market value of debt is fair value of long term debt from 10-K notes

MCA 15-1-210, rationale for changes to guideline companies:

2024 - Added AEP, CNP, ETR, MGEE, OGE

	<u>Median</u>		
Current Year	56%	0%	44%
Prior Year	63%	0%	37%
2 Years Prior	57%	0%	43%
3 Year Average	59%	0%	41%

MONTANA DEPARTMENT OF REVENUE

Capital Asset Pricing Model (CAPM)

Industry: Electric Utilities

2024 Assessment Year

$$k_e = R_f + \beta \times ERP$$

		<i>Ex Post</i>	<i>Ex Ante</i>
$k_e =$	Cost of Equity	11.01%	8.84%
$R_f =$	Risk Free Rate	4.20%	4.20%
$\beta =$	Beta	0.95	0.95
$ERP =$	Equity Risk Premium ($R_m - R_f$)	7.17%	4.88%
$R_m =$	Market Rate of Return	11.37%	9.08%

Risk Free Rate Measures (R_f):

The Value Line Investment Survey: Selection & Opinion^[1]

January 5, 2024 Page 841

Selected Yields on Taxable U.S. Treasury Securities as of 12/22/23

10-year	3.90%
30-year	4.05%

Federal Reserve Statistical Release^[2]

U.S. government securities, Treasury constant maturities, Nominal, December 29, 2023

10-year	3.88%
20-year	4.20%
30-year	4.03%

Risk Free Rate Selected 4.20%

Notes

[1] "Value Line Selection & Opinion", Value Line (January 5, 2024)

[2] <https://www.federalreserve.gov/releases/h15/>

Ex Post - Equity Risk Premium Measures ($ERP = R_m - R_f$)

Kroll, 2024 Cost of Capital Navigator

		<u>R_m</u>	<u>R_f</u>	<u>ERP</u>
ERP "Historical" - <i>Ex Post</i>	<i>Arithmetic Avg.</i>	11.31%	4.14%	7.17%
ERP "Supply-side" - <i>Ex Post</i>	<i>Arithmetic Avg.</i>	10.36%	4.14%	6.22%
Ex Post Equity Risk Premium Selected		<u><u>11.37%</u></u>	<u><u>4.20%</u></u>	<u><u>7.17%</u></u>

MONTANA DEPARTMENT OF REVENUE

Capital Asset Pricing Model (CAPM)

Industry: Electric Utilities

2024 Assessment Year

$$k_e = R_f + \beta \times ERP$$

Ex Ante - Equity Risk Premium Measures (ERP = Rm - Rf)

DOR 3 Stage Dividend Growth Model, S & P 500, See Exhibit

	<u>R_m</u>	<u>R_f</u>	<u>ERP</u>
ERP - <i>Ex Ante</i>	7.22%	4.20%	3.02%

Kroll, 2024 Cost of Capital Navigator

	<u>R_m</u>	<u>R_f</u>	<u>ERP</u>
ERP "Conditional" - <i>Ex Ante</i>	9.00%	3.50%	5.50%

Damodaran Implied ERP (Jan 5, 2024)

	<u>R_m</u>	<u>R_f</u>	<u>ERP</u>
Implied Premium - <i>Ex Ante</i> - Trailing 12 month, with adjusted payout	8.45%	3.88%	4.57%
Implied Premium - <i>Ex Ante</i> - Trailing 12 month cash yields	8.48%	3.88%	4.60%
Implied Premium - <i>Ex Ante</i> - Average CF yield last 10 years	9.95%	3.88%	6.07%
Implied Premium - <i>Ex Ante</i> - Net cash yield	8.31%	3.88%	4.43%
Implied Premium - <i>Ex Ante</i> - Normalized earnings and payout	<u>8.17%</u>	<u>3.88%</u>	<u>4.29%</u>
Damodaran Average	8.67%	3.88%	4.79%

	<u>R_m</u>	<u>R_f</u>	<u>ERP</u>
<u>Average</u>	8.51%		4.64%
<u>Median</u>	8.45%		4.57%
<u>High</u>	9.95%		6.07%
<u>Low</u>	7.22%		3.02%

Ex Ante Equity Risk Premium Selected

9.08%	4.20%	4.88%
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MONTANA DEPARTMENT OF REVENUE

Support for Beta Selection in CAPM

Industry: Electric Utilities

2024 Assessment Year

A	B	C	D	E
Ticker	Company	Industry Group	Financial Strength	Beta
		<i>Value Line</i>	<i>Value Line</i>	<i>Value Line</i>
AEE	Ameren Corp.	UTILCENT	A	0.90
AEP	Amer. Elec. Power	UTILCENT	A+	0.80
AVA	Avista Corp.	UTILWEST	B+	0.95
BKH	Black Hills	UTILWEST	B++	1.00
CNP	CenterPoint Energy	UTILCENT	B++	1.15
DTE	DTE Energy	UTILCENT	B++	1.00
ETR	Entergy Corp.	UTILCENT	B++	0.95
EVRG	Evergy Inc.	UTILCENT	B++	0.95
IDA	IDACORP Inc.	UTILWEST	A	0.85
LNT	Alliant Energy	UTILCENT	B++	0.90
MGEE	MGE Energy	UTILCENT	B++	0.80
NWE	NorthWestern Corp.	UTILWEST	B+	0.95
OGE	OGE Energy	UTILCENT	B++	1.05
POR	Portland General	UTILWEST	B++	0.90
WEC	WEC Energy Group	UTILCENT	A+	0.85
XEL	Xcel Energy Inc.	UTILWEST	A	0.85
Average				0.93
Median				0.93
Trimmed Average				0.92
High				1.15
Low				0.80
Selected				0.95

MONTANA DEPARTMENT OF REVENUE

**Inflation & Real Growth
Industry: Electric Utilities
2024 Assessment Year**

A	B	C	D	Nominal Growth	
				E	F
Source Description	Inflation (CPI)	Real Growth (GDP)	Nominal Growth	Low	High
Livingston Survey ^[1]	2.30%	2.00%	4.30%		
Survey of Professional Forecasters ^[2]	2.24%	2.00%	4.24%		
Congressional Budget Office ^[3]	2.20%	1.90%	4.10%		
Average	2.25%	1.97%	4.21%		
Median	2.24%	2.00%	4.24%		
High	2.30%	2.00%	4.30%		
Low	2.20%	1.90%	4.10%		
Selected	2.25%	2.00%	4.25%	4.10%	4.30%

Inflationary Trend Factors						
Year	Dec. CPI-U Index	Percent Change From Previous	Dec. to Dec. Conversion Factor	Annual Avg. CPI-U Index	Percent Change From Previous	Annual Conversion Factor
	<i>Note [5]</i>	<i>Note [6]</i>	<i>Note [7]</i>	<i>Note [5]</i>	<i>Note [6]</i>	<i>Note [7]</i>
2012	229.601	1.7%	1.3360	229.594	2.0%	1.3271
2013	233.049	1.5%	1.3162	232.957	1.4%	1.3080
2014	234.812	0.8%	1.3063	236.736	1.6%	1.2871
2015	236.525	0.7%	1.2969	237.017	0.1%	1.2856
2016	241.432	2.0%	1.2705	240.007	1.2%	1.2696
2017	246.524	2.1%	1.2443	245.120	2.1%	1.2431
2018	251.233	1.9%	1.2210	251.107	2.4%	1.2134
2019	256.974	2.2%	1.1937	255.657	1.8%	1.1918
2020	260.474	1.3%	1.1776	258.811	1.2%	1.1773
2021	278.802	6.6%	1.1002	270.970	4.5%	1.1245
2022	296.797	6.1%	1.0335	292.655	7.4%	1.0412
2023	306.746	3.2%	1.0000	304.702	4.0%	1.0000

Notes

[1] Federal Reserve Bank of Philadelphia The Livingston Survey December 15, 2023 Table 3 Inflation Rate and Real GDP mean

<https://www.philadelphiafed.org/research-and-data/real-time-center/livingston-survey>

[2] Federal Reserve Bank of Philadelphia Survey of Professional Forecasters February 9, 2024 Table 8 and Table 9 Average over next 10-Year mean

<https://www.philadelphiafed.org/surveys-and-data/real-time-data-research/survey-of-professional-forecasters>

[3] The Budget and Economic Outlook: 2024 To 2034, Table 2-1

<https://www.cbo.gov/about/products/budget-economic-data#4>

[5] Historical Consumer Price Index for All Urban Consumers (CPI-U): U.S. city average, all items, index averages (1982-84=100, unless otherwise noted)

<https://www.bls.gov/cpi/tables/supplemental-files/>

[6] (Row year - Previous Year) / Row Year

[7] Most current year / Row year

MONTANA DEPARTMENT OF REVENUE

3 Stage Dividend Discount Model (DDM)

Industry: Electric Utilities

2024 Assessment Year

$$k_e = (D_1 / P_0) + g$$

k_e = Cost of Equity

D_1 = Expected Dividend

P_0 = Current Price Per Share

g = Sustainable Long-Term Growth

A	B	C	D	E	F	G	H	I
Ticker	Company	2023 Year End Stock Price	2024 Est Div'ds Decl'd per sh	Expected Equity Payout Yield	Sustainable Long-Term Growth Rate ^[1]	Sustainable Long-Term Growth Rate ^[1]	Cost of Equity Dividend Growth	Cost of Equity Earnings Growth
		<i>Yahoo</i>	<i>Value Line</i>	<i>D/C</i>	<i>Dividends</i>	<i>Earnings</i>	<i>E+F</i>	<i>E+G</i>
		P_0	D_1	D_1/P_0	g	g	k_e	k_e
AEE	Ameren Corp.	72.34	2.65	3.66%	5.94%	4.79%	9.61%	8.45%
AEP	Amer. Elec. Power	81.22	3.52	4.33%	5.04%	5.58%	9.37%	9.92%
AVA	Avista Corp.	35.74	1.92	5.37%	4.48%	4.74%	9.85%	10.11%
BKH	Black Hills	53.95	2.65	4.91%	4.30%	4.61%	9.21%	9.52%
CNP	CenterPoint Energy	28.57	0.83	2.91%	4.39%	4.13%	7.29%	7.04%
DTE	DTE Energy	110.26	4.05	3.67%	4.47%	5.84%	8.14%	9.52%
ETR	Entergy Corp.	101.19	4.56	4.51%	3.67%	4.74%	8.18%	9.24%
EVRG	Evergy Inc.	52.20	2.61	5.00%	4.87%	6.53%	9.87%	11.53%
IDA	IDACORP Inc.	98.32	3.40	3.46%	5.51%	4.20%	8.96%	7.66%
LNT	Alliant Energy	51.30	1.92	3.74%	5.14%	5.65%	8.88%	9.40%
MGEE	MGE Energy	72.31	1.71	2.36%	4.32%	4.03%	6.69%	6.40%
NWE	NorthWestern Corp.	50.89	2.60	5.11%	3.05%	4.60%	8.16%	9.71%
OGE	OGE Energy	34.93	1.78	5.10%	2.71%	10.46%	7.80%	15.55%
POR	Portland General	43.34	1.98	4.57%	5.24%	5.67%	9.81%	10.24%
WEC	WEC Energy Group	84.17	3.33	3.96%	4.37%	5.35%	8.33%	9.31%
XEL	Xcel Energy Inc.	61.91	2.22	3.59%	5.19%	5.18%	8.78%	8.76%
Average							8.68%	9.52%
Median							8.83%	9.46%
Trimmed Average							8.74%	9.31%
High							9.87%	15.55%
Low							6.69%	6.40%
Selected							8.68%	9.52%

Notes

[1] From worksheet: DDM Sustainable Long-Term Growth

Implied Sustainable LTG:

4.54%

5.38%

MONTANA DEPARTMENT OF REVENUE
Support for DDM - Short Term Growth Rate Calculations
Industry: Electric Utilities
2024 Assessment Year

A	B	C	D	E	F	G
Ticker	Company	End of Year Closing Stock Price	Div'ds Decl'd per sh 2024 Est	Expected Dividend Yield	Div'ds Decl'd per sh 2026-2028 Est	Short-Term Growth Rate
		<i>Yahoo</i>	<i>Value Line</i>	<i>D / C</i>	<i>Value Line</i>	<i>Note [1]</i>
AEE	Ameren Corp.	72.34	2.65	3.66%	3.30	7.59%
AEP	Amer. Elec. Power	81.22	3.52	4.33%	4.16	5.73%
AVA	Avista Corp.	35.74	1.92	5.37%	2.20	4.64%
BKH	Black Hills	53.95	2.65	4.91%	3.01	4.34%
CNP	CenterPoint Energy	28.57	0.83	2.91%	0.95	4.60%
DTE	DTE Energy	110.26	4.05	3.67%	4.65	4.71%
ETR	Entergy Corp.	101.19	4.56	4.51%	5.00	3.12%
EVRG	Evergy Inc.	52.20	2.61	5.00%	3.05	5.33%
IDA	IDACORP Inc.	98.32	3.40	3.46%	4.15	6.87%
LNT	Alliant Energy	51.30	1.92	3.74%	2.29	6.05%
MGEE	MGE Energy	72.31	1.71	2.36%	1.95	4.48%
NWE	NorthWestern Corp.	50.89	2.60	5.11%	2.76	2.01%
OGE	OGE Energy	34.93	1.78	5.10%	1.85	1.29%
POR	Portland General	43.34	1.98	4.57%	2.36	6.03%
WEC	WEC Energy Group	84.17	3.33	3.96%	3.80	4.50%
XEL	Xcel Energy Inc.	61.91	2.22	3.59%	2.66	6.21%

A	B	C	D	E
Ticker	Company	Earnings per share 2024 Est	Earnings per share 2026-2028 Est	Short-Term Growth Rate
		<i>Value Line</i>	<i>Value Line</i>	<i>Note [1]</i>
AEE	Ameren Corp.	4.70	5.50	5.38%
AEP	Amer. Elec. Power	5.60	6.80	6.69%
AVA	Avista Corp.	2.50	2.90	5.07%
BKH	Black Hills	3.90	4.50	4.89%
CNP	CenterPoint Energy	1.87	2.10	3.94%
DTE	DTE Energy	6.70	8.30	7.40%
ETR	Entergy Corp.	6.45	7.50	5.16%
EVRG	Evergy Inc.	3.85	4.85	8.00%
IDA	IDACORP Inc.	5.40	6.10	4.15%
LNT	Alliant Energy	3.10	3.80	7.02%
MGEE	MGE Energy	3.60	4.00	3.57%
NWE	NorthWestern Corp.	3.60	4.15	4.85%
OGE	OGE Energy	2.15	3.15	13.58%
POR	Portland General	3.00	3.65	6.76%
WEC	WEC Energy Group	4.90	5.90	6.39%
XEL	Xcel Energy Inc.	3.55	4.25	6.18%

Notes

[1] 4 year compound annual growth rate (CAGR) - 3 periods

MONTANA DEPARTMENT OF REVENUE

Support for DDM - Sustainable Long Term Growth

Industry: Electric Utilities

2024 Assessment Year

Dividend Growth Rate									Stage 1				
Ticker	Company	Year End Stock Price	Expected Short-Term Dividend Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D ₁	D ₂	D ₃	D ₄	D ₅
		Yahoo	Note [1]	Note [2]	D_1/P_0	$K_e = IRR \text{ of } D_1 : D_{500}$	$g = IRR - Div. \text{ Yield}$						
AEE	Ameren Corp.	72.34	7.59%	4.25%	3.66%	9.61%	5.94%	(72.34)	2.65	2.85	3.07	3.30	3.55
AEP	Amer. Elec. Power	81.22	5.73%	4.25%	4.33%	9.37%	5.04%	(81.22)	3.52	3.72	3.93	4.16	4.40
AVA	Avista Corp.	35.74	4.64%	4.25%	5.37%	9.85%	4.48%	(35.74)	1.92	2.01	2.10	2.20	2.30
BKH	Black Hills	53.95	4.34%	4.25%	4.91%	9.21%	4.30%	(53.95)	2.65	2.76	2.88	3.01	3.14
CNP	CenterPoint Energy	28.57	4.60%	4.25%	2.91%	7.29%	4.39%	(28.57)	0.83	0.87	0.91	0.95	0.99
DTE	DTE Energy	110.26	4.71%	4.25%	3.67%	8.14%	4.47%	(110.26)	4.05	4.24	4.44	4.65	4.87
ETR	Entergy Corp.	101.19	3.12%	4.25%	4.51%	8.18%	3.67%	(101.19)	4.56	4.70	4.85	5.00	5.16
EVRG	Evergy Inc.	52.20	5.33%	4.25%	5.00%	9.87%	4.87%	(52.20)	2.61	2.75	2.90	3.05	3.21
IDA	IDACORP Inc.	98.32	6.87%	4.25%	3.46%	8.96%	5.51%	(98.32)	3.40	3.63	3.88	4.15	4.44
LNT	Alliant Energy	51.30	6.05%	4.25%	3.74%	8.88%	5.14%	(51.30)	1.92	2.04	2.16	2.29	2.43
MGEE	MGE Energy	72.31	4.48%	4.25%	2.36%	6.69%	4.32%	(72.31)	1.71	1.79	1.87	1.95	2.04
NWE	NorthWestern Corp.	50.89	2.01%	4.25%	5.11%	8.16%	3.05%	(50.89)	2.60	2.65	2.71	2.76	2.82
OGE	OGE Energy	34.93	1.29%	4.25%	5.10%	7.80%	2.71%	(34.93)	1.78	1.80	1.83	1.85	1.87
POR	Portland General	43.34	6.03%	4.25%	4.57%	9.81%	5.24%	(43.34)	1.98	2.10	2.23	2.36	2.50
WEC	WEC Energy Group	84.17	4.50%	4.25%	3.96%	8.33%	4.37%	(84.17)	3.33	3.48	3.64	3.80	3.97
XEL	Xcel Energy Inc.	61.91	6.21%	4.25%	3.59%	8.78%	5.19%	(61.91)	2.22	2.36	2.50	2.66	2.83

Earnings Growth Rate									Stage 1				
Ticker	Company	Year End Stock Price	Expected Short-Term Earnings Growth Rate	Expected Long-Term Growth Rate	Expected Dividend Yield	Internal Rate of Return	Implied Sustainable Long-Term Growth Rate (g)	Initial Investment	D ₁	D ₂	D ₃	D ₄	D ₅
		Yahoo	Note [1]	Note [2]	D_1/P_0	$K_e = IRR \text{ of } D_1 : D_{500}$	$g = IRR - Div. \text{ Yield}$						
AEE	Ameren Corp.	72.34	5.38%	4.25%	3.66%	8.45%	4.79%	(72.34)	2.65	2.79	2.94	3.10	3.27
AEP	Amer. Elec. Power	81.22	6.69%	4.25%	4.33%	9.92%	5.58%	(81.22)	3.52	3.76	4.01	4.27	4.56
AVA	Avista Corp.	35.74	5.07%	4.25%	5.37%	10.11%	4.74%	(35.74)	1.92	2.02	2.12	2.23	2.34
BKH	Black Hills	53.95	4.89%	4.25%	4.91%	9.52%	4.61%	(53.95)	2.65	2.78	2.92	3.06	3.21
CNP	CenterPoint Energy	28.57	3.94%	4.25%	2.91%	7.04%	4.13%	(28.57)	0.83	0.86	0.90	0.93	0.97
DTE	DTE Energy	110.26	7.40%	4.25%	3.67%	9.52%	5.84%	(110.26)	4.05	4.35	4.67	5.02	5.39
ETR	Entergy Corp.	101.19	5.16%	4.25%	4.51%	9.24%	4.74%	(101.19)	4.56	4.80	5.04	5.30	5.58
EVRG	Evergy Inc.	52.20	8.00%	4.25%	5.00%	11.53%	6.53%	(52.20)	2.61	2.82	3.04	3.29	3.55
IDA	IDACORP Inc.	98.32	4.15%	4.25%	3.46%	7.66%	4.20%	(98.32)	3.40	3.54	3.69	3.84	4.00
LNT	Alliant Energy	51.30	7.02%	4.25%	3.74%	9.40%	5.65%	(51.30)	1.92	2.05	2.20	2.35	2.52
MGEE	MGE Energy	72.31	3.57%	4.25%	2.36%	6.40%	4.03%	(72.31)	1.71	1.77	1.83	1.90	1.97
NWE	NorthWestern Corp.	50.89	4.85%	4.25%	5.11%	9.71%	4.60%	(50.89)	2.60	2.73	2.86	3.00	3.14
OGE	OGE Energy	34.93	13.58%	4.25%	5.10%	15.55%	10.46%	(34.93)	1.78	2.02	2.30	2.61	2.96
POR	Portland General	43.34	6.76%	4.25%	4.57%	10.24%	5.67%	(43.34)	1.98	2.11	2.26	2.41	2.57
WEC	WEC Energy Group	84.17	6.39%	4.25%	3.96%	9.31%	5.35%	(84.17)	3.33	3.54	3.77	4.01	4.27
XEL	Xcel Energy Inc.	61.91	6.18%	4.25%	3.59%	8.76%	5.18%	(61.91)	2.22	2.36	2.50	2.66	2.82

Notes

[1] From worksheet: DDM Short Term Growth Rate Calculations

[2] From worksheet: Inflation & Real Growth

MONTANA DEPARTMENT OF REVENUE

Support for DDM - Sustainable Long Term Growth

Industry: Electric Utilities

2024 Assessment Year

Dividend	Stage 2															Stage 3		
	D ₆	D ₇	D ₈	D ₉	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
AEE	3.81	4.09	4.39	4.72	5.06	5.44	5.84	6.27	6.73	7.23	7.76	8.33	8.94	9.60	10.31	10.74	11.20	4,893,731,690
AEP	4.65	4.91	5.18	5.48	5.78	6.11	6.45	6.82	7.20	7.60	8.03	8.48	8.96	9.47	10.00	10.42	10.87	4,747,589,924
AVA	2.41	2.52	2.64	2.76	2.88	3.02	3.16	3.30	3.46	3.62	3.78	3.96	4.14	4.33	4.53	4.72	4.92	2,150,895,994
BKH	3.28	3.42	3.57	3.72	3.88	4.05	4.23	4.41	4.60	4.80	5.01	5.22	5.45	5.69	5.93	6.18	6.45	2,816,802,256
CNP	1.04	1.09	1.14	1.19	1.24	1.30	1.36	1.42	1.49	1.56	1.63	1.70	1.78	1.86	1.95	2.03	2.11	923,719,498
DTE	5.10	5.34	5.59	5.85	6.12	6.41	6.71	7.02	7.35	7.69	8.05	8.43	8.83	9.24	9.67	10.08	10.51	4,592,331,015
ETR	5.32	5.49	5.67	5.85	6.03	6.23	6.43	6.63	6.84	7.06	7.29	7.52	7.76	8.01	8.26	8.61	8.98	3,922,894,741
EVRG	3.38	3.56	3.75	3.94	4.15	4.37	4.60	4.84	5.10	5.36	5.65	5.94	6.25	6.58	6.93	7.22	7.53	3,290,065,825
IDA	4.73	5.05	5.39	5.75	6.13	6.54	6.98	7.45	7.95	8.48	9.05	9.65	10.30	10.99	11.72	12.22	12.74	5,566,786,885
LNT	2.57	2.73	2.89	3.06	3.24	3.43	3.63	3.85	4.08	4.32	4.58	4.85	5.14	5.44	5.76	6.01	6.26	2,736,229,222
MGEE	2.13	2.22	2.32	2.43	2.53	2.65	2.77	2.89	3.02	3.15	3.29	3.44	3.59	3.75	3.92	4.09	4.26	1,861,292,692
NWE	2.88	2.94	3.00	3.07	3.13	3.20	3.27	3.34	3.41	3.49	3.56	3.64	3.72	3.80	3.88	4.04	4.22	1,841,919,043
OGE	1.90	1.93	1.96	1.99	2.02	2.05	2.08	2.11	2.14	2.17	2.21	2.24	2.27	2.31	2.34	2.44	2.54	1,110,928,374
POR	2.65	2.81	2.97	3.15	3.33	3.53	3.74	3.96	4.19	4.44	4.70	4.98	5.28	5.59	5.92	6.17	6.43	2,810,543,314
WEC	4.15	4.33	4.53	4.73	4.94	5.17	5.40	5.64	5.89	6.16	6.43	6.72	7.02	7.34	7.67	7.99	8.33	3,639,721,723
XEL	3.00	3.18	3.37	3.58	3.80	4.03	4.27	4.53	4.81	5.10	5.41	5.74	6.09	6.46	6.85	7.14	7.44	3,252,233,252

Earnings	Stage 2															Stage 3		
	D ₆	D ₇	D ₈	D ₉	D ₁₀	D ₁₁	D ₁₂	D ₁₃	D ₁₄	D ₁₅	D ₁₆	D ₁₇	D ₁₈	D ₁₉	D ₂₀	D ₂₁	D ₂₂	D ₅₀₀
AEE	3.44	3.62	3.82	4.02	4.23	4.46	4.69	4.94	5.20	5.48	5.77	6.08	6.40	6.74	7.09	7.40	7.71	3,368,564,966
AEP	4.86	5.17	5.51	5.87	6.25	6.66	7.10	7.56	8.05	8.58	9.14	9.73	10.37	11.05	11.77	12.27	12.79	5,586,785,431
AVA	2.46	2.58	2.71	2.85	2.99	3.14	3.30	3.46	3.64	3.82	4.01	4.21	4.42	4.64	4.88	5.08	5.30	2,315,518,439
BKH	3.36	3.53	3.70	3.87	4.06	4.26	4.47	4.68	4.91	5.15	5.40	5.66	5.93	6.22	6.52	6.80	7.09	3,095,475,731
CNP	1.01	1.05	1.09	1.13	1.18	1.22	1.27	1.32	1.37	1.43	1.49	1.54	1.61	1.67	1.74	1.81	1.89	824,010,236
DTE	5.78	6.19	6.64	7.11	7.62	8.17	8.76	9.39	10.07	10.79	11.56	12.40	13.29	14.24	15.27	15.91	16.59	7,248,353,217
ETR	5.86	6.16	6.47	6.80	7.15	7.51	7.90	8.30	8.72	9.17	9.63	10.12	10.64	11.18	11.75	12.25	12.77	5,579,250,801
EVRG	3.83	4.12	4.44	4.79	5.16	5.56	5.99	6.45	6.95	7.49	8.07	8.70	9.37	10.10	10.88	11.34	11.83	5,166,112,068
IDA	4.17	4.34	4.52	4.71	4.90	5.11	5.32	5.54	5.77	6.01	6.26	6.52	6.79	7.07	7.36	7.68	8.00	3,496,891,691
LNT	2.69	2.88	3.07	3.28	3.51	3.75	4.00	4.28	4.57	4.88	5.21	5.57	5.95	6.36	6.79	7.08	7.38	3,225,208,543
MGEE	2.04	2.11	2.19	2.27	2.35	2.44	2.52	2.62	2.71	2.81	2.91	3.02	3.12	3.24	3.35	3.50	3.65	1,592,708,326
NWE	3.29	3.45	3.62	3.79	3.98	4.17	4.37	4.58	4.80	5.03	5.27	5.52	5.79	6.07	6.36	6.63	6.91	3,020,231,780
OGE	3.35	3.78	4.27	4.82	5.45	6.15	6.95	7.85	8.87	10.01	11.31	12.78	14.43	16.30	18.42	19.20	20.01	8,743,615,843
POR	2.74	2.92	3.11	3.32	3.54	3.77	4.02	4.28	4.57	4.87	5.19	5.53	5.89	6.28	6.70	6.98	7.28	3,179,764,818
WEC	4.53	4.81	5.12	5.44	5.77	6.13	6.52	6.92	7.36	7.82	8.30	8.82	9.37	9.96	10.58	11.03	11.50	5,023,996,606
XEL	2.99	3.17	3.37	3.57	3.79	4.02	4.26	4.52	4.79	5.08	5.39	5.71	6.06	6.43	6.81	7.10	7.41	3,235,721,033

MONTANA DEPARTMENT OF REVENUE

Support for Yield Capitalization Rate - Debt Rating

Industry: Electric Utilities

2024 Assessment Year

A	B	C	D	E	F
Ticker	Company	Industry Group	Financial Strength	Moody's Long Term Rating	Numeric Rating
		<i>Value Line</i>	<i>Value Line</i>	<i>Moodys.com</i>	
AEE	Ameren Corp.	UTILCENT	A	Ba1	11
AEP	Amer. Elec. Power	UTILCENT	A+	Baa2	9
AVA	Avista Corp.	UTILWEST	B+	Baa2	9
BKH	Black Hills	UTILWEST	B++	Baa2	9
CNP	CenterPoint Energy	UTILCENT	B++	Baa2	9
DTE	DTE Energy	UTILCENT	B++	Baa2	9
ETR	Entergy Corp.	UTILCENT	B++	Baa2	9
EVRG	Evergy Inc.	UTILCENT	B++	Baa2	9
IDA	IDACORP Inc.	UTILWEST	A	Baa2	9
LNT	Alliant Energy	UTILCENT	B++	Baa2	9
MGEE	MGE Energy	UTILCENT	B++		
NWE	NorthWestern Corp.	UTILWEST	B+	Baa2	9
OGE	OGE Energy	UTILCENT	B++	Baa1	8
POR	Portland General	UTILWEST	B++	A3	7
WEC	WEC Energy Group	UTILCENT	A+	Baa1	8
XEL	Xcel Energy Inc.	UTILWEST	A	Baa1	8
Average					9
Median					9
Trimmed Average					9
High					11
Low					7
Selected				Baa2	9

MONTANA DEPARTMENT OF REVENUE
Support for Direct Capitalization - Equity Capitalization Rates
Industry: Electric Utilities
2024 Assessment Year

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Ticker	Company	End of Year Closing Stock Price	VL Historic EPS	VL Est EPS	VL Historic P/E Ratio	VL Est P/E Ratio	Ke Estimate - Earnings (Hist. P/E)	Ke Estimate - Earnings (Est. P/E)	VL Historic Cash Flow Per Share	VL Est Cash Flow Per Share	VL Historic P/CF Ratio	VL Est P/CF Ratio	Ke Estimate - Cash Flow (Hist. P/CF)	Ke Estimate - Cash Flow (Est. P/CF)	Market Value of Equity	Book Value of Equity	MTBR
		Yahoo	Value Line	Value Line	C/D	C/E	1/F	1/G	Value Line	Value Line	C/J	C/K	1/L	1/M	Price x Shrs	Value Line	P/Q
AEE	Ameren Corp.	72.34	4.37	4.70	16.55	15.39	6.04%	6.50%	9.59	10.55	7.54	6.86	13.26%	14.58%	19,263,336	10,508,000	1.83
AEP	Amer. Elec. Power	81.22	5.24	5.60	15.50	14.50	6.45%	6.89%	10.72	11.65	7.58	6.97	13.20%	14.34%	42,736,713	23,893,400	1.79
AVA	Avista Corp.	35.74	2.23	2.50	16.03	14.30	6.24%	6.99%	5.47	5.70	6.53	6.27	15.30%	15.95%	2,790,386	2,334,700	1.20
BKH	Black Hills	53.95	3.92	3.90	13.76	13.83	7.27%	7.23%	7.85	7.80	6.87	6.92	14.55%	14.46%	3,679,227	2,994,900	1.23
CNP	CenterPoint Energy	28.57	1.36	1.87	21.01	15.28	4.76%	6.55%	3.65	3.85	7.83	7.42	12.78%	13.48%	18,034,122	10,042,000	1.80
DTE	DTE Energy	110.26	5.78	6.70	19.08	16.46	5.24%	6.08%	12.61	14.50	8.74	7.60	11.44%	13.15%	22,752,931	10,397,000	2.19
ETR	Entergy Corp.	101.19	11.11	6.45	9.11	15.69	10.98%	6.37%	21.53	17.45	4.70	5.80	21.28%	17.24%	21,538,147	14,842,100	1.45
EVRG	Evergy Inc.	52.20	2.93	3.85	17.82	13.56	5.61%	7.38%	7.78	7.90	6.71	6.61	14.90%	15.13%	11,991,869	9,483,700	1.26
IDA	IDACORP Inc.	98.32	5.14	5.40	19.13	18.21	5.23%	5.49%	8.56	8.80	11.49	11.17	8.71%	8.95%	4,976,490	2,807,200	1.77
LNT	Alliant Energy	51.30	2.78	3.10	18.45	16.55	5.42%	6.04%	5.39	5.65	9.52	9.08	10.51%	11.01%	13,137,768	6,777,000	1.94
MGEE	MGE Energy	72.31	3.25	3.60	22.25	20.09	4.49%	4.98%	5.43	6.70	13.32	10.79	7.51%	9.27%	2,614,946	1,081,700	2.42
NWE	NorthWestern Corp.	50.89	3.27	3.60	15.56	14.14	6.43%	7.07%	6.46	6.45	7.88	7.89	12.69%	12.67%	3,295,734	2,665,200	1.24
OGE	OGE Energy	34.93	2.07	2.15	16.87	16.25	5.93%	6.16%	4.56	4.55	7.66	7.68	13.05%	13.03%	6,997,539	4,413,400	1.59
POR	Portland General	43.34	2.37	3.00	18.29	14.45	5.47%	6.92%	7.41	6.90	5.85	6.28	17.10%	15.92%	4,384,257	2,779,000	1.58
WEC	WEC Energy Group	84.17	4.63	4.90	18.18	17.18	5.50%	5.82%	8.02	9.05	10.50	9.30	9.53%	10.75%	26,550,124	11,407,300	2.33
XEL	Xcel Energy Inc.	61.91	3.38	3.55	18.32	17.44	5.46%	5.73%	7.81	8.25	7.93	7.50	12.62%	13.33%	34,356,441	16,675,000	2.06
Average					17.24	15.83	6.03%	6.39%			8.16	7.76	13.03%	13.33%			1.73
Median					18.00	15.54	5.56%	6.44%			7.74	7.46	12.92%	13.40%			1.78
Trimmed Average					17.47	15.69	5.79%	6.42%			8.04	7.66	12.83%	13.36%			1.72
High					22.25	20.09	10.98%	7.38%			13.32	11.17	21.28%	17.24%			2.42
Low					9.11	13.56	4.49%	4.98%			4.70	5.80	7.51%	8.95%			1.20
Selected					16.01		6.25%				7.57		13.21%				1.78

MONTANA DEPARTMENT OF REVENUE

Support for Direct Capitalization - Debt Capitalization Rate

Industry: Electric Utilities

2024 Assessment Year

(\$ in Thousands)

A	B	C	D	E	F	G	H	I	J
Ticker	Company	Current Year Interest Exp.	Previous Year MV LT Debt	Previous Year BV LT Debt	Current Year MV LT Debt	Current Year BV LT Debt	Average MV LT Debt	Current Yield	MTBR
		10-K	10-K	10-K	10-K	10-K	(D+F)/2	(C/H)	(F/G)
AEE	Ameren Corp.	566,000	12,453,000	14,025,000	14,833,000	15,970,000	13,643,000	4.15%	0.93
AEP	Amer. Elec. Power	1,806,900	35,915,900	36,801,000	37,325,700	40,143,200	36,620,800	4.93%	0.93
AVA	Avista Corp.	140,795	1,862,363	2,340,243	2,149,914	2,572,853	2,006,139	7.02%	0.84
BKH	Black Hills	180,000	3,760,800	4,132,300	4,215,600	4,401,200	3,988,200	4.51%	0.96
CNP	CenterPoint Energy	701,000	14,990,000	16,338,000	17,804,000	18,609,000	16,397,000	4.28%	0.96
DTE	DTE Energy	791,000	16,012,000	17,997,000	18,203,000	19,562,000	17,107,500	4.62%	0.93
ETR	Entergy Corp.	1,046,164	22,573,837	25,932,549	22,489,174	25,107,896	22,531,506	4.64%	0.90
EVRG	Evergy Inc.	525,800	9,160,000	10,344,800	11,044,900	11,853,300	10,102,450	5.20%	0.93
IDA	IDACORP Inc.	116,216	1,953,470	2,194,145	2,684,278	2,825,590	2,318,874	5.01%	0.95
LNT	Alliant Energy	394,000	7,339,000	8,076,000	8,677,000	9,034,000	8,008,000	4.92%	0.96
MGEE	MGE Energy	30,429	567,374	639,560	671,344	723,968	619,359	4.91%	0.93
NWE	NorthWestern Corp.	114,617	2,328,597	2,630,779	2,529,829	2,793,384	2,429,213	4.72%	0.91
OGE	OGE Energy	221,400	4,161,000	4,548,600	4,114,800	4,340,500	4,137,900	5.35%	0.95
POR	Portland General	173,000	3,298,000	3,960,000	4,014,000	4,294,000	3,656,000	4.73%	0.93
WEC	WEC Energy Group	726,900	14,104,500	15,647,400	15,710,200	16,777,000	14,907,350	4.88%	0.94
XEL	Xcel Energy Inc.	1,055,000	20,897,000	23,964,000	22,927,000	25,465,000	21,912,000	4.81%	0.90
All Companies		8,589,221			189,393,739	204,472,891	180,385,290	4.76%	0.93
Average								4.92%	0.93
Median								4.85%	0.93
Trimmed Average								4.82%	0.93
High								7.02%	0.96
Low								4.15%	0.84
Selected								4.92%	0.93

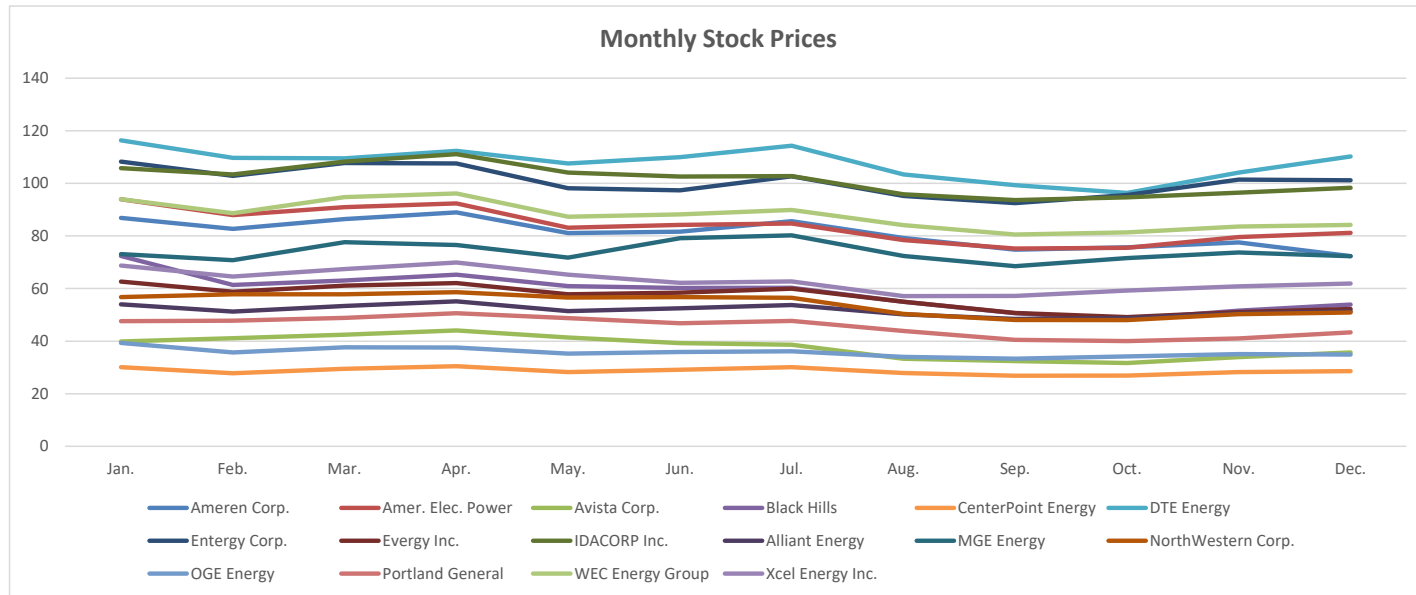
MONTANA DEPARTMENT OF REVENUE

Support of Stock Price - From YAHOO Finance

Industry: Electric Utilities

2024 Assessment Year

		End of Period Closing Stock Price											
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	B	C	D	E	F	G	H	I	J	K	L	M	N
Ticker	Company	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
AEE	Ameren Corp.	86.87	82.71	86.39	88.97	81.07	81.67	85.67	79.27	74.83	75.71	77.59	72.34
AEP	Amer. Elec. Power	93.96	87.97	90.99	92.42	83.12	84.2	84.74	78.4	75.22	75.54	79.55	81.22
AVA	Avista Corp.	39.9	41.12	42.45	44.07	41.35	39.27	38.64	33.29	32.37	31.69	33.95	35.74
BKH	Black Hills	72.38	61.41	63.1	65.29	60.95	60.26	60.33	55	50.59	48.35	51.59	53.95
CNP	CenterPoint Energy	30.12	27.82	29.46	30.47	28.21	29.15	30.09	27.89	26.85	26.88	28.27	28.57
DTE	DTE Energy	116.37	109.71	109.54	112.41	107.6	110.02	114.3	103.38	99.28	96.38	104.11	110.26
ETR	Entergy Corp.	108.28	102.87	107.74	107.58	98.2	97.37	102.7	95.25	92.5	95.59	101.41	101.19
EVRG	Energy Inc.	62.65	58.81	61.12	62.11	57.85	58.42	59.97	54.97	50.7	49.14	51.04	52.2
IDA	IDACORP Inc.	105.81	103.4	108.33	111.12	104.07	102.6	102.82	95.84	93.65	94.71	96.5	98.32
LNT	Alliant Energy	54.03	51.27	53.4	55.14	51.46	52.48	53.74	50.17	48.45	48.79	50.57	51.3
MGEE	MGE Energy	73.11	70.78	77.67	76.61	71.76	79.11	80.24	72.43	68.51	71.63	73.75	72.31
NWE	NorthWestern Corp.	56.8	57.78	57.86	58.62	56.59	56.76	56.47	50.4	48.06	48.01	50.31	50.89
OGE	OGE Energy	39.32	35.72	37.66	37.54	35.28	35.91	36.15	34.05	33.33	34.2	35.05	34.93
POR	Portland General	47.58	47.8	48.89	50.62	48.73	46.83	47.67	43.86	40.48	40.02	41.06	43.34
WEC	WEC Energy Group	93.99	88.66	94.79	96.17	87.35	88.24	89.86	84.12	80.55	81.39	83.62	84.17
XEL	Xcel Energy Inc.	68.77	64.57	67.44	69.91	65.29	62.17	62.73	57.13	57.22	59.27	60.84	61.91



MONTANA DEPARTMENT OF REVENUE

Maintenance Capital Expenditures Estimate Based on Guideline Companies

Industry: Electric Utilities

2024 Assessment Year

(\$ In Thousands)

1	2	3	4	5	6	7	8	9	10	11	
A	B	C	D	E	F	G	H	I	J	K	L
Ticker	Company	Inflation	PP&E, Gross	PP&E, Gross	Average PP&E	Depreciation Expense	Average Life of Assets			Replacement Cost (RC)	RC as % of Depreciation
			Current Year	Previous Year		Current Year		Note [1]	Note [1]	Note [1]	
			MTDOR (CPI)	10-K, Notes	10-K, Notes	(D+E)/2	10-K	F/G	C*H	1/(1+C)^H	G*I/(1-J)
AEE	Ameren Corp.	2.25%	47,179,000	43,839,000	45,509,000	1,387,000	33	0.74	0.48	1,976,272	142.49%
AEP	Amer. Elec. Power	2.25%	101,246,400	97,021,400	99,133,900	3,090,400	32	0.72	0.49	4,371,852	141.47%
AVA	Avista Corp.	2.25%	7,985,433	7,742,466	7,863,950	265,329	30	0.67	0.52	366,426	138.10%
BKH	Black Hills	2.25%	8,897,900	8,355,400	8,626,650	256,800	34	0.76	0.47	368,707	143.58%
CNP	CenterPoint Energy	2.25%	40,396,000	37,728,000	39,062,000	1,401,000	28	0.63	0.54	1,901,299	135.71%
DTE	DTE Energy	2.25%	37,274,000	39,346,000	38,310,000	1,606,000	24	0.54	0.59	2,092,936	130.32%
ETR	Entergy Corp.	2.25%	70,385,532	67,765,171	69,075,352	1,845,003	37	0.84	0.43	2,749,445	149.02%
EVRG	Evergy Inc.	2.25%	34,890,900	32,853,600	33,872,250	1,076,500	31	0.71	0.50	1,513,734	140.62%
IDA	IDACORP Inc.	2.25%	7,291,532	6,828,467	7,060,000	195,341	36	0.81	0.45	287,488	147.17%
LNT	Alliant Energy	2.25%	21,134,000	19,947,000	20,540,500	676,000	30	0.68	0.51	940,500	139.13%
MGEE	MGE Energy	2.25%	2,506,329	2,300,057	2,403,193	100,352	24	0.54	0.59	130,902	130.44%
NWE	NorthWestern Corp.	2.25%	8,299,873	7,843,783	8,071,828	210,474	38	0.86	0.43	316,402	150.33%
OGE	OGE Energy	2.25%	16,110,400	15,131,300	15,620,850	506,600	31	0.69	0.50	707,952	139.75%
POR	Portland General	2.25%	13,329,000	12,421,000	12,875,000	458,000	28	0.63	0.53	622,979	136.02%
WEC	WEC Energy Group	2.25%	42,654,600	39,497,600	41,076,100	1,264,200	32	0.73	0.49	1,795,677	142.04%
XEL	Xcel Energy Inc.	2.25%	69,692,000	65,464,000	67,578,000	2,448,000	28	0.62	0.54	3,313,035	135.34%
Average											140.09%
Median											140.18%
Trimmed Average											140.06%
High											150.33%
Low											130.32%
Selected											140.09%

Notes

[1] Cornell, B. & Gerger, R. (2017). Estimating Terminal Values with Inflation: The Inputs Matter-It Is Not a Formulaic Exercise. *Business Valuation Review*, Volume 36, Number 4, 117-123.