FILED October 12, 2023 INDIANA UTILITY REGULATORY COMMISSION

## **STATE OF INDIANA**

## INDIANA UTILITY REGULATORY COMMISSION

PETITION OF INDIANAPOLIS POWER & LIGHT ) COMPANY D/B/A AES INDIANA ("AES INDIANA") FOR ) AUTHORITY TO INCREASE RATES AND CHARGESFOR ) ELECTRIC UTILITY SERVICE, AND FOR APPROVAL OF RELATED RELIEF, INCLUDING (1) REVISED ) **DEPRECIATION RATES, (2) ACCOUNTING RELIEF, ) INCLUDING DEFERRALS AND AMORTIZATIONS, (3)** ) **INCLUSION OF CAPITAL INVESTMENTS, (4) RATE** ) **ADJUSTMENT MECHANISM PROPOSALS, INCLUDING NEW ECONOMIC DEVELOPMENT RIDER, (5) REMOTE** ) **DISCONNECT/RECONNECT PROCESS, AND (6) NEW** ) SCHEDULES OF RATES, RULES AND REGULATIONS ) FOR SERVICE. )

**CAUSE NO. 45911** 

## INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

## PUBLIC'S EXHIBIT NO. 9 TESTIMONY OF OUCC WITNESS

## **LEJA D. COURTER**

## **OCTOBER 12, 2023**

Respectfully submitted,

T. Jason Haas Attorney No. 34983-29 Deputy Consumer Counselor

Public's Exhibit No. 9 Cause No. 45911 Page 1 of 29

## INDIANAPOLIS POWER & LIGHT COMPANY D/B/A AES INDIANA CAUSE NO. 45911 TESTIMONY OF OUCC WITNESS LEJA D. COURTER

## I. <u>INTRODUCTION</u>

1	Q:	Please state your name and business address.
2	A:	My name is Leja D. Courter. My business address is 115 West Washington Street, Suite
3		1500 South, Indianapolis, IN 46204.
4	Q:	By whom are you employed and in what capacity?
5	A:	I am employed by the Indiana Office of Utility Consumer Counselor ("OUCC") as a
6		Chief Technical Advisor. For a summary of my educational and professional
7		experience, as well as my preparation for presenting testimony in this case, please see
8		Appendix LDC-1 attached to my testimony. Appendix LDC-1 also includes the
9		Discounted Cash Flow ("DCF") Model and Capital Asset Pricing Model ("CAPM")
10		mechanics.
11	Q:	What is the purpose of your testimony?
12	A:	The purpose of my testimony is to support the OUCC's recommended 9.1% cost of
13		equity ("COE") for Indianapolis Power & Light Company d/b/a AES Indiana ("AES
14		Indiana" or "Petitioner"). I also will explain why Petitioner's recommended 10.6%
15		COE is unreasonable.
16	Q:	What are your recommendations in this Cause?
17	A:	Based on the results of the DCF model, CAPM and macroeconomic analyses, I
18		conclude a 9.1% COE is a reasonable and appropriate COE for AES Indiana. To
19		further support the reasonableness of my proposed COE, I address Petitioner's COE
20		methodologies and use of a non-utility proxy group.

1	Q:	Please summarize your COE testimony.	
2	A:	I use both a DCF and a CAPM analyses to estimate Petitioner's COE. My DCF and	
3		CAPM analyses indicate a cost of equity range of 8.1% to 10.2%. I am	
4		recommending a COE in the middle of this range: 9.1%. A 9.1% cost of common	
5		equity results in a weighted cost of capital of 6.54%. (Public's Exhibit No. 2,	
6		Schedule WRB-7, page 1.)	
7	Q:	Are you sponsoring any attachments in this proceeding?	
8	A:	Yes. I am sponsoring the following attachments.	
9 10 11 12 13 14 15		<ul> <li>Attachment LDC-1: DCF analysis.</li> <li>Attachment LDC-2: CBO – The Budget and Economic Outlook: 2023 to 2033.</li> <li>Attachment LDC-3: Federal Reserve Press Release, September 20, 2023.</li> <li>Attachment LDC-4: CAPM analysis.</li> <li>Attachment LDC-5: <i>Value Line</i> Summary sheets.</li> <li>Attachment LDC-6: Kroll Recommended Equity Risk Premium.</li> <li>Attachment LDC-7: Wong – Utility Stocks and the Size Effect.</li> </ul>	
16 17	Q:	To the extent you do not address a specific item or adjustment, should that be construed to mean you agree with Petitioner's proposal?	
18	A:	No. Not addressing a specific item or adjustment AES Indiana proposes does not	
19		indicate my agreement or approval. Rather, the scope of my testimony is limited to the	
20		specific items addressed herein.	
		II. <u>AES INDIANA'S PROPOSED COST OF EQUITY</u>	
21	Q:	What is AES Indiana's current authorized cost of equity?	

- A: AES Indiana's current fair rate of return is 9.99% and is a result of a settlement
- 23 agreement approved in the Indiana Utility Regulatory Commission's
- 24 ("Commission") Order in Cause No. 45029. In re Indianapolis Power & Light

1 Company, Cause No. 45029, Final Order p. 27 (Ind. Util. Regul. Comm'n Oct. 31, 2 2018.) 3 **Q**: What is AES Indiana's proposed COE? 4 A: AES Indiana witness Adrien M. McKenzie recommends a 10.6% COE. (Verified 5 Direct Testimony of Adrien M. McKenzie ("McKenzie Testimony"), page 7, line 6 11.) 7 **Q**: Why does your proposed COE differ from Petitioner's proposed COE? 8 My proposed 9.1% COE is less than Petitioner's estimated cost of equity because A: 9 Petitioner's inappropriate use of: 10 1) An excessive market return as result of using an inflated growth rate, 11 2) CAPM size adjustment, 12 3) Inflated DCF results, 13 4) Empirical CAPM ("ECAPM"), 14 5) Risk Premium Method ("RPM") using the historical relationship between 15 long-term utility yields and authorized returns on equity ("ROEs"), and 16 6) Non-utility proxy group. 17 This produces an unreasonably high cost of equity results which, for the reasons I 18 discuss, should be disregarded. 19 Data on bond yields, dividend yields, inflation and economic growth do not 20 support a 10.6% projected rate of return. Moreover, regulated public utilities tend 21 to be less risky than the market, and are not comparable to the companies in 22 Petitioner's non-utility group. A state policy encouraging investment, the growth 23 of trackers and the ability to readily amend plans has significantly reduced

regulatory lag and expanded paths to recovery of capital investment - and all have

24

1		reduced utility risk in Indiana. Also, Petitioner's proposed 10.6% rate of return
2		would be higher than any COE awarded to an Indiana investor-owned electric
3		utility in more than a decade.
4 5	Q:	What has the OUCC done to determine its recommended 9.1% COE is reasonable?
6	A:	OUCC witness John Hanks reviewed Petitioner's proposed capital structure and overall
7		cost of capital. (Public Exhibit No. 10.) Mr. Hanks has accepted Petitioner's proposed
8		capital structure with 44.69% equity, 49.52% long-term debt, 0.81% customer deposits,
9		prepaid pension asset (3.82%), and 8.80% deferred income taxes. (Id.)
10		To estimate Petitioner's COE, I applied the DCF Model and the CAPM to
11		almost the same electric group Mr. McKenzie used. For the reasons explained below
12		in Section IV, I deleted Hawaiian Electric and Dominion Energy from the electric
13		group and added American Electric Power ("AEP") and Consolidated Edison. My
14		DCF and CAPM analyses indicate an 8.1% to 10.2% COE range. I am
15		recommending a COE in the middle of this range: 9.1%. Combined with
16		Petitioner's capitalization percentages, my overall weighted cost of capital for AES
17		Indiana is 6.54% as indicated on Public's Exhibit No. 2, Schedule WRB-7, page 1.
18		In my DCF analysis I used Value Line's historical and forecasted growth
19		rates in earnings per share ("EPS"), dividends per share ("DPS"), and book value per
20		share ("BVPS") for the electric group. I calculated a sustainable growth rate as well.
21		(Attachment LDC-1, page 3.) I also used analysts' projected EPS from Yahoo
22		Finance, Zacks and S&P Cap IQ. (Id., page 4.) I considered the Congressional
23		Budget Office's ("CBO") long-term growth and inflation rates in the U.S. economy

to produce a reasonable growth rate for AES Indiana. (Attachment LDC-2, page
 9.)

## III. MACROECONOMIC TRENDS

3	Q:	Do macroeconomic factors influence the COE?
4	A:	Yes. The most noteworthy of these factors are interest rates, economic growth, and
5		inflation.
6	Q:	How do inflation and interest rates influence COE estimates?
7	A:	Anticipated inflation influences interest rates. Interest rates influence the COE. Interest
8		rates are elevated. But, as indicated below, forecasted inflation is expected to steadily
9		decrease through 2033.
10	Q:	Please explain the increase in interest rates over the past two years.
11	A:	The Federal Reserve has increased interest rates for the past two years because of an
12		improving economy and higher inflation. Real gross domestic product ("GDP")
13		increased at a 2.1% annual rate in the second quarter of 2023. (Bureau of Economic
14		Analysis, September 28, 2023.
15		(https://www.bea.gov/news/2023/gross-domestic-product-third-estimate-corporate-
16		profits-revised-estimate-second-quarter.) The increase in real GDP reflects increases in
17		consumer spending, nonresidential fixed investment, state and local government
18		spending, and federal government spending. (Id.)
19	Q:	What has the Federal Reserve said about the current economic situation?
20	A:	Recent indicators suggest economic activity has been expanding at a solid pace. Job
21		gains have slowed in recent months, but remain strong, and the unemployment rate has
22		remained low. Inflation remains elevated. Tighter credit conditions for households and

	businesses are likely to weigh on economic activity, hiring, and inflation. (Attachment
	businesses are likely to weigh on economic activity, infing, and inflation. (Attachment
	LDC-3, page 1; Federal Reserve Press Release, September 20, 2023.)
Q;	Has the Federal Reserve attempted to control inflation?
A:	Yes. The Federal Reserve increased the discount rate multiple times in 2022 and 2023.
	But the Federal Reserve's actions on the discount rate only impact short-term rates.
	Long-term rates are more a function of expected economic growth and expected
	inflation.
Q:	Do you agree with Petitioner's assessment of forecasted inflation going forward?
A:	No. Petitioner's testimony states: "Similarly, inflation measured by the Personal
	Consumption Expenditures Price Index rose 5.0% in February 2023, or 4.6% after
	excluding more volatile food and energy costs." (McKenzie Testimony, page 11, lines
	21-23.) I examined historical and projected rates of inflation from government sources,
	including the CBO. The CBO is not forecasting high inflation through 2033. The
	CBO's The Budget and Economic Outlook: 2023 to 2033, forecasts Core PCE
	("Personal Consumption Expenditures") price inflation of 2.9% in 2024, 2.5% in 2025,
	2.2% in 2026-2027, and 2.0% 2028-2033. (Attachment LDC-2, page 8.) The full report
	may be viewed at: <u>https://www.cbo.gov/publication/58848</u> .
Q:	Are U.S. Treasury bond yields an influencing factor on the COE?
A:	Yes. Bond yields are important factors influencing COE. Yields on U.S. Treasury
	Bonds are commonly used to establish the risk-free rate of return in CAPM and other
	risk premium analyses. Changes in bond yields and interest rates affect investor
	expectations. Long-term 30-year Treasury bond yields have recently ranged between
	A: Q: A: Q:

1	Q:	Have you reviewed information from the Federal Reserve regarding inflation?
2	A:	Yes. The Federal Open Market Committee ("FOMC") held a meeting on September
3		19-20, 2023. The meeting participants submitted their projections of the mostly likely
4		outcomes for GDP and inflation for each year from 2023 to 2026.
5		(https://www.federalreserve.gov/monetarypolicy/fomcprojtabl20230920.htm)
6		The median projections for Core PCE inflation were: 3.7% in 2023, 2.6% for 2024,
7		2.3% for 2025, and 2.0% for 2026. (Id., Table 1.)
8 9	Q:	What conclusions have you reached regarding the macroeconomic factors that influence COE?
10	A:	Inflation expectations are decreasing for 2024 through 2026. Although interest rates
11		continued increasing in 2023, the interest rate increases have slowed and may be
12		stabilized. The FOMC seeks to achieve maximum employment and inflation at a 2%
13		rate over the longer run. "In support of these goals, the Committee decided to maintain
14		the target range for the federal funds rate at 5 to 5-1/4 percent. Holding the target range
15		steady at this meeting allows the Committee to assess additional information and its
16		implications for monetary policy." (Attachment LDC-3, page 1.)
17	Q:	Have you considered these macroeconomic factors when deriving your COE?
18	A:	Yes. AES Indiana's new base rates will go into effect in 2024. The 5.0% growth rate,
19		which I use in my electric group DCF analysis, is higher than the 4.4% nominal GDP
20		growth rate the CBO forecasts for 2024. My 5.0% growth rate is higher than the 4.9%
21		CBO nominal GDP forecast for 2025, and higher than the declining 4.4% to 3.9%
22		growth rate forecasts for 2026-2033. (Attachment LDC-2, page 9.) The CBO's
23		forecasted inflation, as measured by the Core PCE index, which excludes prices for
24		food and energy, is 2.9% for 2024, and 2.5% or less through 2033. (Id.). Consequently,

my recommended 9.1% cost of equity is in line with current and projected economic
 conditions.

	IV.	PROXY GROUP USED FOR THE OUCC'S COST OF EQUITY ANALYSES			
3	Q:	Can you apply the DCF model and CAPM directly to AES Indiana?			
4	A:	No. AES Indiana's stock is not publicly traded. As a result, much of the data that would			
5		be available for publicly traded companies is not available for AES Indiana. This fact			
6		makes it impractical to apply the DCF and CAPM directly to AES Indiana. Therefore,			
7		I calculated AES Indiana's COE based on a proxy group of publicly traded utility			
8		companies.			
9 10	Q:	Please describe how you derived the proxy group for your DCF and CAPM studies.			
11	A:	My electric group is comprised of the same companies as Petitioner's proxy group –			
12		with four exceptions. I deleted Hawaiian Electric from the electric group due to the			
13		catastrophic Maui wildfires. Hawaiian Electric's credit ratings have been downgraded			
14		by Moody's. (https://www.moodys.com/research/Moodys-downgrades-Hawaiian-			
15		Electric-Companys-senior-unsecured-bonds-to-Ba3-Rating-ActionPR 479599.)			
16		S&P also downgraded Hawaiian Electric to BB- and placed the company on watch for			
17		further downgrades. (https://www.reuters.com/business/energy/hawaiian-electric-			
18		shares-plunge-further-sp-downgrades-utility-junk-2023-08-15/.) This puts Hawaiian			
19		Electric outside of the ratings criteria to identify the proxy group of utilities identified			
20		by Mr. McKenzie. (McKenzie Testimony, page 19, lines 10-12.)			
21		I also deleted Dominion Energy because of the \$14 billion sale of three of its			
22		natural gas utilities to Enbridge Inc. on September 5.			
23		(https://www.capitaliq.spglobal.com/web/client?auth=inherit#news/article?id=773564			

82&KeyProductLinkType=6.) The sale of these natural gas utilities can impact
 Dominion Energy's stock prices and analysts' growth outlooks, which impacts the
 reliability of the DCF estimates for Dominion Energy.

4 I added AEP and Consolidated Edison to the electric group since those utilities 5 are included in the Value Line electric group and those companies also meet Mr. 6 McKenzie's selection criteria for the Moody's rating of Baa2. Petitioner's testimony 7 describes the electric group's selection criteria. (McKenzie Testimony, page 18, line 8 19 - page 19, line 18.) Both AEP and Consolidated Edison have an A- S&P rating, 9 which is better than Mr. McKenzie's selection criteria. However, both of those 10 companies have higher projected EPS growth than the average for the electric group. 11 (Attachment LDC-1, page 3.) Therefore, removing AEP and Consolidated Edison from the electric group would *lower* the electric group's projected EPS growth. Also, it is 12 13 noteworthy AEP and Consolidated Edison were included in Mr. McKenzie's electric 14 group in Cause No. 45029 when those companies had an A- S&P rating.

Petitioner also applied the DCF model to a non-utility group. However, Mr.
McKenzie states: "This analysis is not directly considered to arrive at my recommended
ROE range of reasonableness; however, it is my opinion that this is a relevant
consideration in evaluating a fair ROE for the Company." (McKenzie Testimony, page
48, line 22 – page 49, line 2.)

## 20 Q: Did you use the non-utility group in your analysis?

A: No. Petitioner's non-utility group comprises 51 publicly traded companies, including
3M Company, Coca-Cola, Comcast, McDonald's, Microsoft, PepsiCo, Proctor &
Gamble, and Walmart. (McKenzie Testimony, Attachment AMM-11, pages 1-3.)

1	These companies, and the rest of the companies in Petitioner's non-utility group, face
2	different risks than AES Indiana and the companies in the regulated electric group,
3	whose rates are set by the Commission and other utility regulators. Although Mr.
4	McKenzie acknowledges he didn't directly consider this analysis when making his
5	recommendation, he does state it is a relevant consideration. Petitioner's non-utility
6	group produces overstated cost of equity results, it is not a relevant consideration, and
7	the Commission should disregard it.

## 8 Q: Please describe your approach to estimate AES Indiana's COE.

A: I relied on the DCF model and CAPM analysis to estimate AES Indiana's COE.

## V. <u>DISCOUNTED CASH FLOW ANALYSIS</u>

## 9 Q: Please describe DCF Analysis.

10 A: DCF analysis helps investors determine the appropriate price to pay for particular 11 assets, such as utility stocks. According to the DCF model, the current stock price is 12 equal to the discounted value of all future dividends investors expect to receive from 13 investment in the firm. Therefore, stockholders' returns result from current as well as 14 future dividends. The model has been adapted for regulatory proceedings to determine 15 the cost of utility equity capital. The DCF model is a model which maintains that the 16 value (price) of any security or commodity is the discounted present value of all future 17 cash flows. This discount rate equals the cost of capital with utility stocks and dividends 18 as the relevant cash flows. A detailed description of the DCF mechanics is included in 19 my Appendix LDC-1.

## 20 Q: Is the DCF model consistent with valuation techniques investment firms employ?

- 1 Yes. Virtually all investment firms use some form of the DCF model as a valuation A: 2 technique.
- 3 **Q**: What factors should be considered when applying the DCF methodology?
- Current economic conditions and other information available to investors must be 4 A: 5 considered to accurately estimate investors' expectations. This information is used to 6 estimate the dividend yield and expected growth rate.
- 7 **Q**: What dividend yields have you reviewed?
- 8 A: I calculated the dividend yields for the electric group companies using the most recent 9 quarterly dividends listed on Value Line. I took the quarterly dividend times four to 10 arrive at an annual dividend. I then divided the annual dividend by the 30-day, 90-day, 11 and 180-day stock prices obtained from S&P Cap IQ. These dividend yields are 12 provided on Attachment LDC-1, page 2. The median dividend yields range from 3.9% 13 to 4.1%. I used the median of that range, which is 4%. I used a forward dividend yield 14 of 4.1% for the electric group. (Id., page 1.) This forward dividend yield calculation 15 applies the "half year method." (*Id.*, page 2.)

#### 16 **Q**: Please discuss the growth rate component of the DCF model.

- 17 This component is investors' expectation of the long-term dividend growth rate. A: 18 Presumably, investors use some combination of historical and/or projected growth rates 19 for earnings and dividends per share and for internal or book-value growth to assess long-term growth potential.
- 20

#### 21 **O**: What growth data have you reviewed for the electric group?

22 A: I have reviewed Value Line's historical and projected growth rate estimates for EPS, 23 DPS, and BVPS. I also used the average EPS growth-rate forecasts of Wall Street as 24 provided by Yahoo, Zacks, and S&P Cap IQ. These services solicit five-year earnings

1		growth-rate projections from securities analysts and publish the means and medians of
2		these forecasts. I also analyzed prospective growth as measured by prospective
3		earnings retention rates and earned returns on common equity.
4	Q:	Please discuss historical growth in earnings and dividends.
5	A:	Historical growth rates for EPS, DPS, and BVPS are readily available to investors, and
6		are presumably important in forming expectations concerning future growth. However,
7		past growth may not reflect future growth potential. According to the DCF model, the
8		expected return on a security is equal to the sum of the dividend yield and the expected
9		long-term growth in dividends. Therefore, to best estimate the cost of common equity
10		capital using the DCF model, it is necessary to assess long-term growth rate
11		expectations.
12	Q:	Please discuss internal growth.
13	A:	Internally generated growth is a function of the percentage of earnings retained with
14		the firm (earnings retention rate) and the rate of return earned on those earnings (return
15		on equity ("ROE")). The internal growth rate is computed as the retention rate times
16		the ROE. Internal growth is significant in determining long-run earnings and therefore,
17		dividends.
18 19	Q:	Please discuss the historical growth of the companies in the electric group, as provided by <i>Value Line</i> .
20	A:	Attachment LDC-1, page 3, provides the 5- and 10-year historical growth rates for EPS,
21		DPS, and BVPS for the electric group companies, as published in Value Line. The
22		median historical growth measures for EPS, DPS, and BVPS for the electric group
23		range from 3.5% to 5%, with a 4.2% average.
24 25	Q;	Please summarize <i>Value Line's</i> projected growth rates for the electric group companies.

1	A:	Value Line 's EPS, DPS, and BVPS growth projections are shown on Attachment LDC-
2		1, page 3. The medians for projected growth range from 4.0% to 5.0%, with a 4.3%
3		average of the medians.
4	Q:	Please discuss the sustainable growth rates.
5	A:	The prospective sustainable growth rates for the electric group companies are provided
6		on Attachment LDC-1, page 3. These rates are measured by Value Line's average
7		projected retention rate and return on shareholders' equity. (Attachment LDC-5, pages
8		1-22.) Sustainable growth is a primary driver of long-run earnings growth. The median
9		prospective sustainable growth rate for the electric group is 4.0%. (Attachment LDC-
10		1, page 3.)
11 12	Q:	Please assess growth rates for the electric group as measured by analysts' forecasts of expected five-year EPS growth.
13	A:	Yahoo, Zacks, and S&P Cap IQ publish analysts' long-term EPS growth rate forecasts
14		for the electric group companies. These forecasts are provided on Attachment LDC-1,
15		page 4. I provide both the mean and median growth rates for the electric group. There
16		is overlap in analysts' coverage between the three services, and not all the companies
17		have forecasts from the different services. Therefore, I averaged the expected five-year
18		EPS growth rates from the three services for each company to arrive at an expected
19		EPS growth rate for each company. The mean/median of analysts' projected EPS
20		growth rates for the electric group is 5.8%/6.0%. (Attachment LDC-1, page 4.)
21 22	Q:	Please summarize your analysis of the electric group's historical and prospective growth.
23	A:	Attachment LDC-1, page 5 summarizes the DCF growth rate indicator for the electric
24		group. The historical growth rate for the electric group is 4.1% The average of the
25		projected EPS, DPS, and BVPS growth rates from Value Line is 4.3%. Value Line's

7		Table 1 below:
6	A:	My DCF-derived equity cost rates are summarized on Attachment LDC-1, page 1, and
5	Q:	Please describe the results of your growth calculations.
4		which is in the middle range of the electric group's historic and projected growth rates.
3		range of projected growth rates is 4.0% to 6.0%. I use 5.0% as my DCF growth rate,
2		projected EPS growth rates for the electric group are 5.8% and 6.0%. Therefore, the
1		projected sustainable growth rate is 4.0%. Wall Street Analysts' mean and median

## Table 1

## **DCF-Derived Cost of Equity**

Forward Dividend Yield	4.1%
Growth Adjustment	<u>5.0%</u>
Cost of Equity	9.1%

## VI. <u>CAPITAL ASSET PRICING MODEL</u>

8 **Q**: Please describe the CAPM. 9 The CAPM is another analysis frequently relied upon by this Commission to help A: 10 determine a reasonable COE capital. The CAPM is a risk premium approach to gauging 11 a firm's COE capital (K). According to the risk premium approach, the COE capital is 12 the sum of the interest rate on a risk-free bond (Rf) and a risk premium (RP). The CAPM's underlying assumption is the stock market compensates investors for risk that 13 14 cannot be eliminated by means of a diversified stock portfolio. A detailed description 15 of the CAPM mechanics is included in my Appendix LDC-1.

1		The yield on long-term U.S. Treasury securities is normally used as Rf. In the
2		CAPM, two types of risk are associated with a stock: firm-specific risk or unsystematic
3		risk, and market or systematic risk, which is measured by a firm's beta ( $\beta$ ). Rm
4		represents the expected return on the stock market. According to the CAPM, the
5		expected return on a company's stock, which is also the equity cost rate (K), is equal
6		to:
7		$K = Rf + \beta * (Rm - Rf)$
8	Q:	Please discuss Attachment LDC-4.
9	A:	Attachment LDC-4 provides the summary for my CAPM analysis. Page 1 shows the
10		results, and the following pages contain the supporting data.
11	Q:	Please discuss the risk-free interest rate (Rf).
12	A:	The yield on long-term U.S. Treasury bonds is normally used as the risk-free rate of
13		interest in the CAPM.
14	Q:	What risk-free interest rate are you using in your CAPM?
15	A:	I am using a 4.3% risk-free interest rate. As shown on page 2 of Attachment LDC-4,
16		the yield on 20-year U.S. Treasury bonds for the 13-week period indicated ranges from
17		4.00% to 4.61%. The mean during that period was 4.29%. I used a 13-week period
18		because an average bond price is less susceptible to price variations than a price at a
19		single point in time. Previously, I have used the normalized risk-rate the investment
20		advisory firm Kroll (formerly Duff & Phelps) used, which presently is 3.50%.
21		(Attachment LDC-6, page 4.) Typically, U.S. Treasury securities are used as a proxy
22		for the risk-free rate because the full faith and credit of the U.S. government backs
23		them.

1 2	Q:	Why did you use the yield on 20-year U.S. Treasury bonds in this Cause instead of the 3.5% normalized risk-free rate Kroll used?
3	A:	In June of this year, Kroll issued the following statement:
4 5 6 7 8		We recommend using the spot 20-year U.S. Treasury yield as the proxy for the risk-free rate, if the prevailing yield as of the valuation date is higher than our recommended U.S. normalized risk-free rate of 3.5%. This guidance is effective when developing USD-denominated discount rates as of June 16, 2022 and thereafter. (Attachment LDC-6, page 4.)
9		As a result of this information, I used the mean of the yield on 20-year U.S.
10		Treasury bonds as indicated on Attachment LDC-4, page 2.
11	Q:	What betas are you using in your CAPM?
12	A:	I used the betas from Value Line as indicated on Attachment LDC-4, page 3. The mean
13		of the betas for the electric group is 0.92.
14	Q:	Please discuss the market risk premium.
15	A:	The market risk premium is the difference between the expected return on a market
16		portfolio (Rm) and the risk-free rate (Rf). The risk-free rate is characterized by
17		investing in safe fixed-income assets, such as long-term government bonds.
18	Q:	What is an equity market risk premium?
19	A:	An equity market risk premium pertains only to stocks and represents the expected
20		return of stocks above the risk-free rate. Because the market risk premium is broader
21		and more diversified, the equity market risk premium tends to be larger than the market
22		risk premium. Therefore, using an equity market risk premium results in a higher
23		CAPM COE than using a market risk premium.
24	Q:	What risk premium are you using in your CAPM?
25	A:	I am using a 5.5% equity market risk premium. Kroll recommends a 5.5% equity
26		market risk premium. (Attachment LDC-6, page 1.) Kroll also indicates a 3.5% risk-
27		free rate. KPMG recommends a 5.25% equity market risk premium at the following

1		link:	KPMG	Equity	Market	Risk	Premium	June	30	2023
2		<u>(https://</u>	indialogue	.io/clients/	reports/publ	ic/5d9da	61986db2894	649a7ef2	2/5d9da	a63386
3		<u>db2894</u>	<u>649a7ef5)</u> .	I used Ki	roll's highe	r 5.5% e	equity market	t risk pr	emium	in my
4		analysis	5.							
5 6	<b>Q:</b> A:		-	•			C <b>APM analy</b> s group is sumr		on Atta	chment
7		LDC-4,	page 1, an	d Table 2	below.					

## Table 2

## CAPM Formula: $K = Rf + \beta (Rm - Rf)$

Risk-Free Rate (Rf)	4.3%
Beta (β)	0.92
Equity Risk Premium (Rm – Rf)	<u>5.5%</u>
Equity Cost Rate (K)	9.3%

### **OUCC'S ESTIMATED COST OF EQUITY** VII.

8	Q:	Please summarize the results of your COE analyses.
9	A:	My DCF analysis indicates an 8.1% to 10.2% range for the electric group. My CAPM
10		analysis indicates a 9.3% COE for the electric group. Based on all the above, I
11		recommend a 9.1% COE.

### VIII. **PETITIONER'S COST OF EQUITY ANALYSIS**

Please summarize Petitioner's COE analysis. 12 **Q**: Petitioner's estimated COE is 10.6%. Petitioner's analysis uses a DCF model, a CAPM, 13 A: 14 an Empirical CAPM ("ECAPM"), a br+sv growth rate, a risk premium and expected

1	earning methods. Petitioner applies these models to the electric group. (McKenzie
2	Testimony, page 3, lines 3-4.) As mentioned above, Mr. McKenzie indicates he did not
3	rely on his non-utility group analysis to arrive at his recommended COE range. (Id.,
4	page 48, line 22 – page 49, line 2.) Petitioner's COE range is 10.1% to 11.1%. (Id.,
5	page 3, lines 5-6.)

## 6 Q: Do you agree with all the models Petitioner uses to determine AES Indiana's ROE?

8 No. I agree with using the CAPM and DCF models, without Petitioner's proposed A: 9 adjustments to those models. For decades, the Commission has consistently and 10 primarily used the DCF and CAPM models when setting utilities' COE. The COE 11 testimonies that utilities, intervenors, and the OUCC file include the DCF and CAPM 12 models. Other models are presented in Petitioner's testimony, but these models, as 13 presented by Petitioner, produce over-estimated costs of equity and, therefore, should 14 be disregarded when determining a reasonable COE for Petitioner. As discussed below, 15 there are several issues with the inputs, applications, and results of Petitioner's COE 16 models.

## IX. <u>PETITIONER'S DCF ANALYSIS</u>

Q: What are the issues in Petitioner's DCF analysis?
A: Petitioner's DCF estimates in Attachment AMM-5 pages 2 and 3, are inflated because
of Petitioner's exclusive reliance on projected EPS in its analysis. It is more
appropriate, and consistent with the Commission's established COE analysis, to rely
on both historical and forecasted growth rates in EPS, DPS, and BVPS, as I have done
in my DCF analysis. (Attachment LDC-1, page 3.)

1		Unlike the other analysts' services, <i>Value Line</i> also provides the DPS and BVPS
2		along with the EPS. The median percentages for the projected EPS $(5.0\%)$ DPS $(4.0\%)$
3		and BVPS (4.0%) are shown on Attachment LDC-1, page 3. The average of these three
4		Value Line projected growth rates is 4.3%. Using this projected 4.3% growth rate along
5		with Petitioner's 3.8% dividend yield results in an 8.1% DCF estimate - rather than
6		Petitioner's 9.2% Value Line proposal. (McKenzie Testimony, Attachment AMM-5,
7		pages 1, 3.)
8	Q:	What data should the Commission use to estimate growth (g) in a DCF analysis?
9	A:	The Commission should follow its established practice, and review and give weight to
10		both historical and forecasted data of growth rates in EPS, DPS, and BVPS.
11	Q:	What other issues do you have with Petitioner's DCF analysis?
12	A:	Petitioner uses an adjustment factor when calculating the sustainable growth rate. (Id.,
13		Attachment AMM-6, page 1). This adjustment factor has the effect of inflating the
14		sustainable growth rate. However, Petitioner indicates there are significant
15		shortcomings with its sustainable growth rate approach and, therefore, gives less weight
16		to those estimates. (Id., page 34, lines 13-24.)
17	Q:	Please summarize your comments on Petitioner's DCF analysis.
18	A:	The major reason for the difference between my DCF estimate and Petitioner's DCF
19		estimate is Petitioner relied exclusively on projected EPS. Petitioner did not use
20		historical data or projected DPS or BVPS, consistent with the Commission's
21		established COE analysis. Consequently, Petitioner's proposed growth rate is inflated
22		and unreasonable.

## X. <u>PETITIONER'S BR+SV GROWTH RATE</u>

1	Q:	Please describe Petitioner's br+sv growth rate.
2	A:	Petitioner's br+sv growth rate is outlined in Mr. McKenzie's testimony, page 33, line
3		15 to page 34, line 24, and Attachment AMM-6. Mr. McKenzie indicates this is his
4		formula for calculating the sustainable growth rate where "b" is the expected retention
5		ratio, "r" is the expected earned return on equity, "s" is the percent of common equity
6		expected to be issued annually as new common stock, and "v" is the equity accretion
7		rate. (McKenzie Testimony, page 33, lines 15-18.)
8 9	Q:	Are there significant shortcomings associated with Petitioner's "br+sv" growth rate?
10	A:	Yes, and Petitioner identifies these shortcomings in its testimony. Mr. McKenzie states:
11		"Given the inherent difficulty in forecasting each parameter and the difficulty of
12		estimating the expectations of investors, the potential for measurement error is
13		significantly increased when using four variables, as opposed to referencing a direct
14		projection for EPS growth." (Id., page 34, lines 15-18.) Given Petitioner's admission
15		regarding the shortcomings of its br+sv growth rate, I recommend the Commission
16		reject the use of the br+sv growth rates when evaluating the results of Petitioner's DCF
17		model.

## XI. <u>PETITIONER'S CAPM AND ECAPM ANALYSES</u>

1	Q:	Does the CAPM give a better indication of required returns than the DCF model?
2	A:	Not necessarily. The CAPM is typically more controversial than the DCF model.
3		Eugene Brigham and Phillip Daves comment on using CAPM on pages 117-118 of
4		their text Intermediate Financial Management (12 <sup>nd</sup> Edition):
5 6 7 8 9 10 11 12 13 14		When applied in practice, the CAPM appears to provide neat, precise answers to important questions about risk and required rates of return. However, the answers are less clear than they seem. The simple truth is that we do not know precisely how to measure any of the inputs required to implement the CAPM. These inputs should all be ex ante, yet only <i>ex-post</i> data is available. Furthermore, historical data on $r_M$ , and $r_{RF}$ , and betas vary greatly depending on the time period studied and the methods used to estimate them. Thus, even though the CAPM appears to be precise, estimates of $r_i$ found through its use are subject to potentially large errors. (Emphasis added, footnote omitted.)
15	Q:	What are your issues with Petitioner's CAPM analysis?
16	A:	Petitioner's 11.6% market return (Rm) is overstated because of the inflated projected
17		9.5% growth rate in column (b). (McKenzie Testimony, Attachment AMM-7, page 1.)
18		According to footnote (b), Petitioner calculated the 9.5% projected growth rate in
19		column (b) by using earnings growth rates from IBES, Value Line, and Zacks for
20		dividend-paying stocks in the S&P 500. (Id., emphasis added.) This information was
21		confirmed in Petitioner's testimony, "In order to capture the expectations of today's
22		investors in current capital markets, the expected market rate of return was estimated
23		by conducting a DCF analysis on the dividend paying firms in the S&P 500." (Id., page
24		38, lines 1-3.) Apparently, Petitioner conducted a DCF analysis on hundreds of non-
25		utility firms in various industries, with various risk profiles, and capital structures, and
26		calculated a projected 9.5% growth rate. This projected growth rate overstates by

1		hundreds of basis points the median projected growth rates for the electric group
2		indicated on Attachment LDC-1, pages 3 and 4, ranging from 4.3% to 6.0%.
3	Q:	What is the impact of using the inflated projected growth rate?
4	A:	Petitioner's inflated projected growth rate impacts the COE and the risk premium
5		amount. For example, Allete is listed with a 2.1% dividend yield, 9.5% projected
6		growth, an 11.6% COE, a 3.8% risk-free rate, and a 7.8% risk premium. (McKenzie
7		Testimony, Attachment AMM-7, page 1, line 1.) The remainder of the electric group
8		utilities listed on Attachment AMM-7 indicate the same inflated projected growth rate.
9		Using my highest projected 6.0% growth rate listed on Attachment LDC-1, page 4,
10		changes the COE from 11.6% to $8.1\%$ ( $2.1\% + 6.0\%$ ) and the risk premium changes
11		from 7.8% to 4.3% ( $8.1\%$ - 3.8%), which is even lower than the 5.5% risk premium I
12		recommend. (Attachment LDC-1, page 1.)
13	Q:	Did Petitioner also propose a size adjustment to its CAPM?
13 14	<b>Q:</b> A.	<b>Did Petitioner also propose a size adjustment to its CAPM?</b> Yes. I will address the size adjustment issue when I discuss the ECAPM next.
	_	
14 15	A.	Yes. I will address the size adjustment issue when I discuss the ECAPM next. Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity
14 15 16	А. <b>Q:</b>	Yes. I will address the size adjustment issue when I discuss the ECAPM next. Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana?
14 15 16 17	А. <b>Q:</b>	Yes. I will address the size adjustment issue when I discuss the ECAPM next. Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana? No. Petitioner's ECAPM suffers from the same projected growth rate issues I just
14 15 16 17 18	А. <b>Q:</b>	Yes. I will address the size adjustment issue when I discuss the ECAPM next. <b>Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana?</b> No. Petitioner's ECAPM suffers from the same projected growth rate issues I just discussed regarding Petitioner's CAPM analysis. (McKenzie Testimony, Attachment
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	A. Q: A:	<ul> <li>Yes. I will address the size adjustment issue when I discuss the ECAPM next.</li> <li>Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana?</li> <li>No. Petitioner's ECAPM suffers from the same projected growth rate issues I just discussed regarding Petitioner's CAPM analysis. (McKenzie Testimony, Attachment AMM-8, page 1.)</li> <li>Has the Commission expressed an opinion on the use and results of an ECAPM</li> </ul>
14 15 16 17 18 19 20 21	A. Q: A: Q:	<ul> <li>Yes. I will address the size adjustment issue when I discuss the ECAPM next.</li> <li>Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana?</li> <li>No. Petitioner's ECAPM suffers from the same projected growth rate issues I just discussed regarding Petitioner's CAPM analysis. (McKenzie Testimony, Attachment AMM-8, page 1.)</li> <li>Has the Commission expressed an opinion on the use and results of an ECAPM approach?</li> </ul>
<ol> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> </ol>	A. Q: A: Q:	<ul> <li>Yes. I will address the size adjustment issue when I discuss the ECAPM next.</li> <li>Do you agree with Petitioner's ECAPM to estimate an appropriate cost of equity for AES Indiana?</li> <li>No. Petitioner's ECAPM suffers from the same projected growth rate issues I just discussed regarding Petitioner's CAPM analysis. (McKenzie Testimony, Attachment AMM-8, page 1.)</li> <li>Has the Commission expressed an opinion on the use and results of an ECAPM approach?</li> <li>Yes. The Commission has rejected the use of ECAPM in at least two previous Causes</li> </ul>

		1 age 25 01 29
1 2 3 4 5 6 7 8 9 10		that: "the Empirical CAPM is not sufficiently reliable for ratemaking purposes." Cause No. 40003 at 32. We went on to conclude that the ECAPM " would adjust, in essence, future expectations with regard to investor perceptions of relative risks for further change which may occur years hence." The Commission concluded that " we do not believe exercises in approximating future cost of capital are conducive to such precise estimation as the Empirical CAPM would suggest." Id. We find that nothing presented in this Cause has changed our prior determination that ECAPM is not sufficiently reliable for ratemaking purposes and hereby reject the model in this proceeding.
11 12		<i>In re PSI Energy</i> , Cause No. 42359, Final Order, p. 56 (Ind. Util. Regulatory Comm'n May 18, 2004.)
13 14	Q:	Do you agree with Petitioner's CAPM and ECAPM with size adjustment to estimate an appropriate cost of equity for AES Indiana?
15	A:	No. The applicability of a small size adjustment to regulated public utilities is
16		questionable. Regulation reduces the financial risks Petitioner faces. Annie Wong of
17		Western Connecticut State University writes that business and financial risks are very
18		similar among utilities regardless of size in Utility Stock and the Size Effect: An
19		Empirical Analysis:
20 21 22 23 24 25 26 27 28 29		The fact that the two samples show different, though weak, results indicates that utility and industrial stocks do not share the same characteristics. First, given firm size, utility stocks are consistently less risky than industrial stocks. Second, industrial betas tend to decrease with firm size, but utility betas do not. These findings may be attributed to the fact that all public utilities operate in an environment with regional monopolistic power and regulated financial structure. As a result, the business and financial risks are very similar among the utilities regardless of their size. Therefore, utility betas would not necessarily be related to firm size.
30 31 32 33 34 35 36		The objective of this study is to examine if the size effect exists in the utility industry. After controlling for equity values, there is some weak evidence that firm size is a missing factor from the CAPM for industrial but not utility stocks. This implies that although the size phenomenon has been strongly documented for industrials, findings suggest that there is no need to adjust for the firm size in utility regulation. (Emphasis added.)

1 2	(Attachment LDC-7, page 4; Annie Wong, "Utility Stock and the Size Effect: An Empirical Analysis," Journal of the Midwest Finance Association, 1993, page 98.)
3	Michael Paschall and George B. Hawkins, authors of Do Smaller Companies Warrant
4	a Higher Discount Rate for Risk?: The "Size Effect" Debate, state that privately held
5	companies should be analyzed individually to determine if a size premium is
6	appropriate:
7 8 9 10 11 12 13	A size premium does not automatically apply in every case. Each privately held company should be analyzed to determine if a size premium is appropriate in its particular case. There can be unusual circumstances where a small company has risk characteristics that make it far less risky than the average company, warranting the use of a very low risk premium. One possible example of this is a private water utility (monopoly situation, very low risk, near guarantee of payments).
14 15 16 17	Paschall and Hawkins, <i>Do Smaller Companies Warrant a Higher Discount Rate for Risk?: The "Size Effect" Debate</i> , CCH Business Valuation Alert, page 3, December 1999. (https://www.businessvalue.com/resources/Valuation-Articles/Small-Company-Cap-Rates.pdf)
18	Also, the Commission has found an application of Ibbotson's small company
19	adjustment can ignore the fact that the risk of regulated utilities is not as great as small
20	companies:
21 22 23 24 25 26 27	We are familiar with the Ibbotson-derived 400 basis point small company risk premium used by Mr. Beatty. The rationale behind this approach is that, all other things being equal, the smaller the company, the greater the risk. However, to blindly apply this risk premium to Petitioner is to ignore the fact that Petitioner is a regulated utility. The risks from small size for a regulated water utility are not as great as those small companies facing competition in the open market.
28 29	In re South Haven Sewer, Cause No. 40398, Final Order, pp. 30-31 (Ind. Util. Regulatory Comm'n May 28, 1997.)

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1	In an Indiana American Water Co. rate case order in Cause No. 43680, the
2	Commission stated that regulated utilities have different risks than other small
3	companies:
4 5 6 7	The Commission rejects Petitioner's equity size premium adjustment because it cannot be directly applied to regulated water utilities. Regulated water utilities do not experience the same risks as other small companies.
8 9	In re Indiana-American Water, Cause No. 43680, Final Order, p. 47 (Ind. Util. Regulatory Comm'n Apr. 30, 2010.)
10	The Commission can apply the same rationale for rejecting equity size
11	adjustments to the electric companies it regulates.

## XII. <u>PETITIONER'S UTILITY RISK PREMIUM ANALYSIS</u>

## 12 **Q**: Please describe Petitioner's Risk Premium method. 13 A: Mr. McKenzie discusses his risk premium analysis on pages 43-46 of his testimony. 14 He uses the risk premium method based on the long-term utility bond yields and 15 authorized ROEs for electric utilities. (McKenzie Testimony, Attachment AMM-9, 16 pages 1-2.) Mr. McKenzie estimates a 3.89% average equity risk premium. (Id., page 17 2.) He adjusts this average risk premium using a regression analysis to increase the equity risk premium from 3.89% to 4.89%. (Id., page 1.) Mr. McKenzie adds this new 18 19 equity risk premium to the Baa-rated utility bond yield of 5.75%. Mr. McKenzie 20 concludes: "Adding this equity risk premium to the average yield on Baa-rated utility 21 bonds implies a current ROE of 10.64%." (Id., page 46, lines 18-19.)

# 1Q:Mr. McKenzie states on page 44, lines 1-2 of his testimony "...risk premium2methods directly estimate investors' required rate of return by adding an equity3risk premium to observable bond yields." Do you agree?

4 A: No. Mr. McKenzie's risk premium methodology produces an overstated required rate

5 of return. All but one of the companies in the electric group sell at market-to-book

6 ratios in excess of 1.0. A market-to-book ratio greater than 1.0 indicates a company's

7 ROE is *above* its equity cost rate.

## 8 Q: Have you calculated the electric group companies' market-to-book ratios?

9 A: Yes. I calculated the market-to-book ratios on the Value Line reports by dividing the 10 price by the book value per share. For example, Allete has a \$55.86 share price and a 11 \$54 book value per share. Allete's market-to-book ratio is 1.03 [\$55.86 / \$54]. The 12 market-to-book ratios for all the electric group companies are listed on Attachment 13 LDC-1, page 3. The only electric group company with a market-to-book ratio less than 14 1.0 is Avista Corp. with a 0.99 ratio. The 22 electric group companies' average market-15 to-book ratio is 1.46. (Id.) Therefore, Petitioner's risk premium analysis is overstated 16 as a measure of utility investors' return requirements and produces an overstated equity 17 cost rate.

## 18 Q: Is Petitioner's risk premium an appropriate measure of utility investors' required 19 rate of return?

- A; No. As previously mentioned, Petitioner's risk premium overstates the equity cost rate.
   Also, Petitioner's risk premium measures utility commission behavior rather than
   estimate utility investors' behavior.
- 23 Capital costs are determined through the financial decisions of investors. Those 24 financial decisions are reflected in dividend yields, expected growth rates, interest 25 rates, and investors' assessment of the risk and expected return of different investments.

Regulatory commissions do evaluate capital market data in setting ROEs. However,
 regulatory commissions also consider other utility and rate case-specific information
 in addition to capital costs when setting authorized ROEs. Furthermore, the authorized
 ROE data includes rate cases that are settled and not fully litigated. Therefore,
 compromises are made that impact the ROE, which commissions consider, but of
 which investors may not be aware.

## XIII. <u>EXPECTED EARNINGS</u>

## 7 Q: Please discuss Petitioner's expected earnings approach.

A: Petitioner's expected earnings approach is outlined in Mr. McKenzie's testimony, page
46, line 22 to page 48, line 19, and Attachment AMM-10. Petitioner's approach uses
the expected earned return for the electric group companies as estimated in *Value Line*.
Mr. McKenzie states: "Value Line's projections for the electric group suggest an
average ROE of 11.0%." (McKenzie Testimony, page 48, lines 18-19.)

## Q: Is Petitioner's expected earnings approach a reasonable method for estimating Petitioner's COE?

15No. The expected earnings approach does not measure the return investors require to16make an investment. Instead, the expected earnings approach measures the earned17return on book equity that a company is projected to achieve in the future. A return

18 estimate using expected earnings can differ from the return investors currently require.

## 19 Q: What returns do investors require to make an investment?

A: The returns are measured from prevailing stock market prices. Petitioner has not
 evaluated the market-to-book ratios for the electric group companies and, therefore,
 cannot indicate whether the projected returns on common equity are above or below

investors' requirements. However, as shown on Attachment LDC-1, page 3, the
 average market-to-book ratio of the electric group companies is 1.46, which is *above* the cost of common equity. Therefore, Petitioner's expected earnings approach should
 be rejected.

## XIV. <u>NON-UTILITY GROUP</u>

5 Q: Please discuss your issues with Petitioner's non-utility group.

A: Petitioner estimates a COE rate using a group of 51 non-utility companies. (McKenzie
Testimony, page 48. line 21 - page 52, line 18; Attachment AMM-11, pages 1-3.) This
non-utility group includes 3M Company, Coca-Cola, Johnson & Johnson, Lilly,
Microsoft, PepsiCo, Pfizer, Proctor & Gamble, and Walmart. (Attachment AMM-11,
pages 1-3.)

11 The DCF results for this non-utility group should be disregarded. The lines of 12 business and the risks of this non-utility group are different from the electric utility 13 business, and these companies do not operate in a highly regulated environment – or at 14 least their prices are not set by a regulatory commission. Also, as previously discussed, 15 there is an upward bias in the EPS growth rate forecasts of Wall Street analysts and, 16 therefore, the DCF cost of equity estimates for Petitioner's non-utility group are 17 overstated.

## XV. <u>SUMMARY AND RECOMMENDATIONS</u>

18 Q: Please summarize your testimony on DCF calculations for the electric group.

A: I calculated a 4.1% forward dividend yield for the electric group. I also performed
 calculations and analyses in which I concluded a 5.0% DCF growth rate, g, is

1		reasonable. These estimates were made using historical and projected growth rates
2		from Value Line, Zacks, Yahoo Finance, and S&P Cap IQ, and economic growth data
3		from the CBO. I considered both projected and historical data. My DCF calculations
4		result in a 9.1% COE for the electric group.
5	Q:	Please summarize your testimony on the electric group's CAPM calculations.
6	A:	Based on Value Line betas and using almost the same electric group as Petitioner, I
7		calculated a 0.92 average beta for the electric group. (Attachment LDC-4, page 3.) As
8		the beta is less than 1.0, it also describes a relatively low-risk industry. I calculated a
9		4.3% risk-free rate based on a 13-week average of 20-Year Treasury Bonds. (Id., page
10		2.) I used Kroll's 5.5% equity risk premium. (Attachment LDC-6, page 1.) This results
11		in a 9.3% CAPM COE for the electric group.
12 13	Q:	Please summarize your testimony on macroeconomic factors influencing cost of equity.
	<b>Q:</b> A:	
13		equity.
13 14		equity. As discussed above, the most important macroeconomic factors influencing cost of
13 14 15		equity. As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is
13 14 15 16		equity. As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is forecasted to steadily decline through 2033. Interest rates have increased during the last
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> </ol>	A:	equity. As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is forecasted to steadily decline through 2033. Interest rates have increased during the last year but were not raised at the recent FOMC meeting.
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> </ol>	A: <b>Q:</b>	equity. As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is forecasted to steadily decline through 2033. Interest rates have increased during the last year but were not raised at the recent FOMC meeting. Please summarize your recommendation for AES Indiana's COE.
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> </ol>	A: <b>Q:</b>	<ul> <li>equity.</li> <li>As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is forecasted to steadily decline through 2033. Interest rates have increased during the last year but were not raised at the recent FOMC meeting.</li> <li>Please summarize your recommendation for AES Indiana's COE.</li> <li>I recommend the Commission authorize a 9.1% COE for AES Indiana. This</li> </ul>
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> </ol>	A: <b>Q:</b>	<ul> <li>equity.</li> <li>As discussed above, the most important macroeconomic factors influencing cost of equity are inflation and interest rates. Short-term inflation is declining, and inflation is forecasted to steadily decline through 2033. Interest rates have increased during the last year but were not raised at the recent FOMC meeting.</li> <li>Please summarize your recommendation for AES Indiana's COE.</li> <li>I recommend the Commission authorize a 9.1% COE for AES Indiana. This recommendation is in the middle range of my DCF and CAPM calculations for the</li> </ul>

## APPENDIX LDC-1 TO TESTIMONY OF OUCC WITNESS LEJA D. COURTER

1	Q:	Please describe your educational background and experience.
2	A:	I graduated from Ball State University in Muncie, Indiana with Bachelor of Science
3		degrees in Finance and Economics. I received my Juris Doctorate from the University
4		of Dayton. In previous years, I have been engaged in the private practice of law, and I
5		also served as an in-house counsel at Indiana Gas Company. I have been an attorney at
6		the OUCC for over twenty years. I was the Director of the OUCC's Natural Gas
7		Division for twelve years. I became a Chief Technical Advisor at the OUCC in
8		December 2021. I am a Certified Rate of Return Analyst ("CRRA").
9	Q:	Have you previously testified before the Indiana Utility Regulatory Commission?
9 10	<b>Q:</b> A:	Have you previously testified before the Indiana Utility Regulatory Commission? Yes.
10	A:	Yes.
10 11	A: <b>Q:</b>	Yes. Please describe the review and analysis you conducted to prepare your testimony.
10 11 12	A: <b>Q:</b>	Yes. Please describe the review and analysis you conducted to prepare your testimony. I reviewed AES Indiana's petition, testimony, exhibits, and supporting documentation
10 11 12 13	A: <b>Q:</b>	Yes. Please describe the review and analysis you conducted to prepare your testimony. I reviewed AES Indiana's petition, testimony, exhibits, and supporting documentation submitted in this Cause. I prepared and reviewed discovery requests, and reviewed AES

## I. DISCOUNTED CASH FLOW ("DCF") ANALYSIS

- 17 A. Introduction to DCF Model
- 18 Q: Please describe the DCF model.

19A:The DCF model is typically used by investors to determine the appropriate price to pay20for a security. This model assumes the price of a security should be determined by its21expected cash flows discounted by the company's cost of equity. On a one-year

2year (D1), plus the anticipated price of the stock at the end of the year (P1) divided3one plus the company's cost of equity (k). In turn, this year's year-end price (P4determined by next year's anticipated dividends (D2) and next year's anticipated y5end price (P2) divided by one plus the company's cost of equity (k).6Because investors may plan to hold securities for extended periods, the D7equation can be restated for an infinite or unknown number of periods as follow8 $P_0 = D_1/(k-g)$ 9[Where the price of a security (P0) equals the anticipated dividends paid over the curring10period (D1) divided by the company's cost of equity (k) minus the expected growth11of dividends (g)].12The company's cost of equity must be greater than its expected dividend growth
4determined by next year's anticipated dividends $(D_2)$ and next year's anticipated y5end price $(P_2)$ divided by one plus the company's cost of equity $(k)$ .6Because investors may plan to hold securities for extended periods, the D7equation can be restated for an infinite or unknown number of periods as follor8 $P_0 = D_1/(k-g)$ 9[Where the price of a security $(P_0)$ equals the anticipated dividends paid over the cur10period $(D_1)$ divided by the company's cost of equity $(k)$ minus the expected growth11of dividends $(g)$ ].
5end price $(P_2)$ divided by one plus the company's cost of equity (k).6Because investors may plan to hold securities for extended periods, the D7equation can be restated for an infinite or unknown number of periods as follor8 $P_0 = D_1/(k-g)$ 9[Where the price of a security (P_0) equals the anticipated dividends paid over the cur10period (D_1) divided by the company's cost of equity (k) minus the expected growth11of dividends (g)].
6Because investors may plan to hold securities for extended periods, the D7equation can be restated for an infinite or unknown number of periods as follor8 $P_0 = D_1/(k-g)$ 9[Where the price of a security ( $P_0$ ) equals the anticipated dividends paid over the cur10period ( $D_1$ ) divided by the company's cost of equity (k) minus the expected growth11of dividends (g)].
7equation can be restated for an infinite or unknown number of periods as follow8 $P_0 = D_1/(k-g)$ 9[Where the price of a security (P_0) equals the anticipated dividends paid over the cur10period (D_1) divided by the company's cost of equity (k) minus the expected growth11of dividends (g)].
8 $P_0 = D_1/(k-g)$ 9 [Where the price of a security (P <sub>0</sub> ) equals the anticipated dividends paid over the cur 10 period (D <sub>1</sub> ) divided by the company's cost of equity (k) minus the expected growth 11 of dividends (g)].
9 [Where the price of a security $(P_0)$ equals the anticipated dividends paid over the cur 10 period $(D_1)$ divided by the company's cost of equity $(k)$ minus the expected growth 11 of dividends $(g)$ ].
<ul> <li>period (D<sub>1</sub>) divided by the company's cost of equity (k) minus the expected growth</li> <li>of dividends (g)].</li> </ul>
11 of dividends (g)].
12 The company's cost of equity must be greater than its expected dividend gro
13 rate of this model to be valid. By rearranging the model, the familiar DCF formula
14 in regulatory proceedings can be obtained.
15 $k = (D_1/P_0) + g$
16 [Where the cost of equity (k) equals the forward dividend yield (D1/P0) plus
17 expected growth rate in dividends per share (g). To estimate the cost of equity (k)
18 forward yield $(D1/P_0)$ and the expected growth rate in dividends (g) must be estimated
19 B. Dividend yield
20 Q: How did you calculate the forward yields (D1/P0) in your analysis?
21 A: To calculate a forward yield $(D_1/P_0)$ , the current yield $(D_0/P_0)$ must be calculated to
22 A company's current yield equals its current annual dividends $(D_0)$ divided by
23 current stock price ( $P_0$ ).

1	Q:	How do you convert current yields (D <sub>0</sub> /P <sub>0</sub> ) into forward yields (D <sub>1</sub> /P <sub>0</sub> )?						
2	A:	I use the following equation to convert a current yield to a forward yield:						
3		$D_1/P_0 = (D_0/P_0) * (1 + .5g)$						
4		For example, if Company N had a current dividend yield of 4.0% and an expected						
5		growth rate of 2%, I would multiply the 4% current dividend yield by 1 plus 2% or 1.01						
6		(1% is one-half of the 2% expected growth rate). This results in a forward dividend						
7		yield of 4.04%, or an increase of 4 basis points over the current dividend yield.						
8	Q:	What dividend yields do you use in your DCF analyses?						
9	A:	Attachment LDC-1, page 2, contains the average dividend yields for my electric group.						
10	C.	Dividend growth rate						
11 12	Q:	How did you estimate the long run dividend growth component (g) of the DCF model?						
13	A:	The DCF model assumes investors expect earnings per share (EPS), dividends per share						
14		(DPS), and book value per share (BVPS) to all grow at the constant long run growth						
15		rate (g). When the data is available, to estimate (g), I use both historical and forecasted						
16		growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.						
17 18	Q:	What is your estimated long run dividend growth component(g) of the DCF model using <i>Value Line</i> growth rates in EPS, DPS, and BVPS?						
19	A:	My estimated growth rate for the electric group ranged between 4.0% and 6.1%.						
20		(Attachment LDC-1, pages 3-5.) To estimate growth for the Value Line data, I average						
21		the forecasted and historical growth rates of EPS, DPS, and BVPS.						
22 23	Q:	To estimate the dividend growth (g) for your DCF analysis, did you include negative growth rates or zero growth rates?						
24	A:	No. I excluded zero and negative growth rates to estimate (g) in my DCF analysis.						

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1 **O**: Why haven't you eliminated low (positive) growth rates from your DCF analysis? 2 A: Low growth rates are not ignored by investors. While investors may not expect low growth rates to occur (especially in perpetuity), if a company has experienced low 3 4 historical growth rates or is forecasted to experience low growth rates, then those low 5 growth rates are considered by and relevant to investors when they estimate a 6 company's future growth rate. The purpose in estimating a growth rate in the DCF 7 model is to infer the investor's long-term (perpetual) forecast in growth of the 8 company. Relevant factors are not ignored. Also, one should consistently use or reject, 9 both high positive growth rates and low positive growth rates. While growth rates as 10 high as 18.0% or as low as 0.5% by themselves may not reflect investor expectations, 11 neither should be ignored - or alternatively, both should be disregarded. 12 D. **DCF Model conclusions** 13 **Q**: What do you conclude from your DCF study? 14 A: The results of my DCF analysis for the electric group are a range of 8.1% to 10.2%. (Attachment LDC-1, page 1.) My DCF analysis uses both historical and forecasted 15

16 growth rates in EPS, DPS, and BVPS. It is based on a review of growth rates, and 17 it is most consistent with prior Commission decisions on how to estimate a growth 18 rate in a DCF analysis. As discussed above, analysts' forecasts of intermediate term 19 growth rates in EPS may be optimistic and should not be used by themselves to

20 estimate long-term growth (g) in a DCF analysis.

## II. CAPITAL ASSET PRICING MODEL (CAPM) ANALYSIS

## 1 Q: Please describe your CAPM analysis.

A: The Capital Asset Pricing Model, or CAPM, is a form of risk premium analysis
used to estimate the cost of capital. The CAPM is based on the premise that
investors require a higher return for assuming additional risk. Total risk is divisible
into two categories: systematic risk and unsystematic risk. Systematic risk is risk
that affects the entire market, including inflation, monetary policy, fiscal policy, or
politics. Unsystematic risk is risk unique to the company, and may include strikes,
management errors, merger activity, or individual financing policy.

9 Investors can eliminate unsystematic risk through diversification. Because 10 returns on individual securities of a portfolio do not usually move in the same 11 direction at the same time, the total risk of a portfolio is less than the risk of the 12 individual securities that make up the portfolio. The market does not compensate 13 investors for assuming unsystematic risk because investors can eliminate 14 unsystematic risk through diversification. Conversely, systematic risk, also 15 referred to as market risk, cannot be eliminated through diversification. However, 16 because investments will move with different relationships to the market, investors can form a portfolio to assume the amount of market risk they wish. An investor's 17 18 required return depends on the market risk that the investor assumes.

19

## Q: How is systematic (market) risk measured?

A: Beta is the measurement of an investment's relationship to the market. More
 specifically, beta measures an asset's price volatility compared to the stock market.
 The market has a beta of one. The market refers to the returns on all assets. It is

1		difficult to measure the return on all assets. Therefore, analysts typically rely on a					
2		market index, such as the Standard & Poor's 500 Index, as a proxy for the market.					
3		Assets more volatile than the market will have a beta greater than one, and thus,					
4		are considered riskier than the market. Assets that are less volatile will have a beta					
5		less than one and are considered less risky than the market.					
6		The CAPM formula can be stated as follows:					
7		$K = Rfc + \beta (Rm-Rf)$					
8		where,					
9		K	K		Cost of Equity		
10		R	Rfc		Current Risk-Free Rate of Return		
11		β	3		Beta		
12		R	Rm-Rf	f	Expected Market Equity Risk Premium		
13		R	Rm		Market Equity Return		
14		R	Rf		Risk Free Rate of Return		
15		The return on an asset (K) equals the risk-free rate of return (Rfc) plus its beta (B)					
16		multiplied by the market equity risk premium (Rm - Rf). The market equity risk					
17		premium equals the market equity return minus the risk-free rate of return.					
18	Q:	Is the CAPM controversial?					
19	A:	The CAPM is typically more controversial and less reliable than the DCF model.					
20		Different applications of CAPM may result in vastly different cost of equity					
21		estimates. For example, the source of beta can influence the results of a CAPM					

1

2

analysis. If a market risk premium of 5.0% is used, a difference in beta of only 0.10 changes the results of a CAPM analysis by 50 basis points.

3 The method used to estimate the market risk premium can also be 4 particularly controversial. An historical risk premium can be calculated, but a 5 decision must be made between using a geometric mean or an arithmetic mean calculation. This decision is important because the use of the arithmetic mean 6 7 can produce results that are over 140 basis points higher than the geometric mean. 8 The geometric mean calculation is preferable over the arithmetic mean 9 calculation because the geometric mean calculation more accurately 10 measures the change in wealth over multiple periods. Selecting the appropriate 11 period to calculate a historical risk premium is not only controversial, it also 12 dramatically affects the results. When relying on a historical risk premium, 13 the longest historical period for which accurate historical data exists should be 14 used to estimate a risk premium.

## Q: When calculating a market risk premium, do you use total returns or income returns?

A: I use total returns. Investors who buy long-term bonds (both risk-free and utility
bonds) do not earn just income returns, but total returns. Therefore, a determination
of the risk premium should be based on total returns for both equity and debt
investments when estimating a risk premium. In Indiana American Water
Company Inc.'s, Cause No. 42520, the Commission agreed with the testimony of

1		Intervenor witness Michael Gorman that total returns and not income returns
2		should be used to estimate an historical risk premium. The Order states:
3 4 5 6 7 8 9 10 11 12 13 14		Another area of disagreement in the CAPM analysis is whether the model should use total returns or income returns. We find Mr. Gorman's analysis in this area to be most persuasive. The income return on Treasury bonds is simply the average of Treasury bond yield quotes over the historical period, and this yield quote does not measure the actual return investors earn by making investments in Treasury bonds. Investors simply cannot invest only in Treasury bond income returns. Rather, investors must take the risk of variations in bond prices before they invest in treasury bonds. Therefore the actual return experienced by investors in Treasury securities is measured by total return, not simply the income return. <i>In re Indiana-American Water Company, Inc.</i> , Cause No. 45520, Final Order p. 59 (Ind. Util. Regulatory Comm'n Nov. 18, 2004.)
15	B.	Risk-free rate of return
16	Q:	Is the risk-free rate of return also controversial?
17	A:	Yes. Aside from the market risk premium controversy, financial analysts do not agree
18		on the determination of the risk-free rate. Theoretically, the risk-free rate is the rate of
19		return on a completely risk-free asset. In practice, analysts typically use yields on
20		United State Treasury securities as a proxy for the risk-free rate.
21		
	Q;	How did you estimate the risk-free rate?
	<b>Q;</b> A:	How did you estimate the risk-free rate? I reviewed 20-Year Treasury bonds and reviewed market publications.
22 23		-
22	A:	I reviewed 20-Year Treasury bonds and reviewed market publications.
22 23	A: C.	I reviewed 20-Year Treasury bonds and reviewed market publications. Beta.

## 1 D. <u>Conclusions on CAPM analysis</u>

## 2 Q: Please review the results of your CAPM analysis.

- 3 A: The cost of equity based on my CAPM analysis for the electric group is 9.3%.
- 4 (Attachment LDC-4, page 1.) I used a risk-free rate of 4.3%, a beta of 0.92, and an
- 5 equity risk premium of 5.5%.

Attachment LDC-1 Cause No. 45911 Page 1 of 5

## Summary of Discounted Cash Flow Analysis (DCF)

*DCF formula*:  $K = (D_1 / P_0) + g$ 

**Electric Proxy Group:** 

Dividend Yield (D <sub>1</sub> /P <sub>0</sub> ):	4.1%
Dividend Growth (g):	4.0% - 6.1%
DCF Cost of Equity (K):	8.1% - 10.2%

see page 2

see pages 3, 4, and 5

Attachment LDC-1 Cause No. 45911 Page 2 of 5

#### **Dividend Yield Data**

		Dividend	Dividend	Dividend	Price 52	Price 52
	Annual	Yield 30	Yield 90	Yield 180	Week	Week
Electric Group Companies:	Dividend *	Days **	Days	Days	High *	Low *
Allete Inc. (ALE)	\$2.71	4.9%	4.3%	4.5%	\$67.45	\$47.77
Ameren Corp. (AEE)	\$2.52	3.1%	3.0%	3.1%	\$96.36	\$73.28
American Electric Power Company Inc. (AEP)	\$3.35	4.1%	4.0%	3.8%	\$105.60	\$77.01
Avista Corp. (AVA)	\$1.84	5.0%	4.3%	4.5%	\$45.29	\$32.27
Black Hills Corp. (BKH)	\$2.53	4.4%	3.9%	4.2%	\$79.15	\$53.88
CenterPoint Energy (CNP)	\$0.77	2.7%	2.7%	2.8%	\$33.50	\$25.03
CMS Energy Corp. (CMS)	\$1.95	3.4%	3.2%	3.3%	\$70.46	\$52.41
Consolidated Edison Inc. (ED)	\$3.34	3.7%	3.6%	3.7%	\$102.21	\$78.10
DTE Energy Co. (DTE)	\$3.81	3.5%	3.4%	3.6%	\$136.63	\$100.64
Duke Energy Co. (DUK)	\$4.06	4.5%	4.4%	4.3%	\$111.26	\$83.76
Edison International (EIX)	\$2.99	4.3%	4.4%	4.4%	\$74.92	\$54.45
Entergy Corp. (ETR)	\$4.30	4.4%	4.2%	4.2%	\$122.11	\$93.52
Exelon Corp. (EXC)	\$1.44	3.6%	3.6%	3.5%	\$46.19	\$35.19
IDACORP Inc. (IDA)	\$3.20	3.2%	3.0%	3.2%	\$112.96	\$92.40
NorthWestern Corp. (NWE)	\$2.56	4.7%	4.3%	4.5%	\$61.24	\$48.68
OGE Energy Corp. (OGE)	\$1.66	4.8%	4.6%	4.7%	\$42.28	\$33.28
Otter Tail Corp. (OTTR)	\$1.75	2.0%	2.3%	2.4%	\$92.74	\$52.60
Pinnacle West Capital (PNW)	\$3.48	4.4%	4.3%	4.6%	\$86.03	\$59.03
Portland General Elec. (POR)	\$1.88	4.0%	3.8%	4.0%	\$53.12	\$41.58
Pub Sv Enterprise Grp. (PEG)	\$2.28	3.8%	3.6%	3.9%	\$69.27	\$52.51
Sempra Energy (SRE)	\$2.38	3.4%	3.2%	3.2%	\$88.24	\$68.27
Southern Company (SO)	\$2.78	4.1%	4.0%	4.3%	\$80.32	\$58.85
Mean		3.9%	3.7%	3.8%		
Median		4.1%	3.9%	4.0%		

\* Value Line - 09/05/2023

\*\* 30, 90, and 180-Day Stock Prices from S&P Cap IQ (8/4/23, 6/7/23, 3/7/23)

Forward Dividend Yields:

#### Average Dividend Yield, adjusted for growth by (1 + 0.5g)

 $D_1/P_0 = D_0/P_0 * (1 + 0.5g) = 4.0\% * [1 + 0.5(0.060)] =$ 

<u>4.1%</u>

#### *Value Line* Historical, Projected, and Sustainable Growth Rates Market to Book Ratios *Value Line* Companies - Electric Group

		· · ·										-	
	Annual Gi	owth - Pas	st 10 Years	Annual G	rowth - Pa	st 5 Years	Value Li	ne Projecteo	d Growth	Value Line			
		Dividend	Book		Dividend	Book							Market to
	Earnings	s Per	Value Per	Earnings	s Per	Value Per	Earnings	Dividends	Book Value	Return on	Retention	Internal	Book
Company Name	Per Share	Share	Share	Per Share	Share	Share	Per Share	Per Share	Per Share	Equity	Rate	Growth	Ratio
Allete Inc. (ALE)	3.0%	3.5%	4.5%	5.0%	3.5%	3.0%	6.0%	3.5%	3.5%	9.0%	40.0%	3.6%	1.03
Ameren Corp. (AEE)	4.0%	4.0%	2.0%	8.0%	5.0%	5.5%	6.5%	6.5%	6.5%	10.0%	40.0%	4.0%	1.46
American Electric Power Company Inc.													
(AEP)	5.0%	5.0%	3.5%	4.0%	5.0%	3.5%	6.5%	5.5%	6.0%	11.0%	39.0%	4.3%	1.27
Avista Corp. (AVA)	2.5%	4.5%	4.0%	0.5%	4.0%	3.5%	6.5%	4.0%	3.5%	7.5%	28.0%	2.1%	0.99
Black Hills Corp. (BKH)	9.5%	4.5%	4.5%	5.5%	6.0%	7.5%	3.0%	4.5%	4.0%	8.0%	33.0%	2.6%	1.04
CenterPoint Energy (CNP)	0.5%	-0.5%	3.5%	1.0%	-7.5%	8.0%	6.5%	2.5%	6.0%	10.0%	48.0%	4.8%	1.45
CMS Energy Corp. (CMS)	6.5%	8.0%	6.0%	6.0%	7.0%	7.5%	6.5%	6.0%	7.0%	11.5%	38.0%	4.4%	1.79
Consolidated Edison Inc. (ED)	2.0%	2.5%	4.0%	1.5%	3.0%	4.0%	6.0%	3.5%	3.0%	9.0%	37.0%	3.3%	1.41
DTE Energy Co. (DTE)	4.0%	5.5%	3.0%	2.5%	5.5%	1.5%	4.5%	3.0%	1.0%	12.5%	38.0%	4.8%	1.73
Duke Energy Co. (DUK)	3.0%	3.0%	2.0%	4.5%	3.5%	1.0%	5.0%	2.0%	2.5%	9.0%	32.0%	2.9%	1.34
Edison International (EIX)	3.0%	7.5%	1.0%	2.0%	6.5%	-0.5%	4.5%	5.0%	2.5%	12.5%	36.0%	4.5%	1.62
Entergy Corp. (ETR)	0.5%	1.5%	1.5%	1.5%	2.5%	4.0%	0.5%	4.0%	4.0%	8.5%	23.0%	2.0%	1.29
Exelon Corp. (EXC)	-0.5%	-3.0%	4.5%	2.5%	4.0%	3.5%	NMF	NMF	NMF	10.0%	40.0%	4.0%	1.46
IDACORP Inc. (IDA)	4.0%	8.5%	5.0%	4.0%	6.5%	4.5%	5.0%	6.0%	4.0%	9.5%	34.0%	3.2%	1.53
NorthWestern Corp. (NWE)	3.5%	5.5%	6.0%	1.0%	4.0%	4.5%	3.5%	2.0%	3.5%	8.0%	33.0%	2.6%	1.07
OGE Energy Corp. (OGE)	3.0%	7.5%	4.0%	4.5%	6.5%	1.5%	6.5%	3.0%	5.5%	13.0%	43.0%	5.6%	1.31
Otter Tail Corp. (OTTR)	18.0%	2.5%	3.5%	14.5%	4.0%	6.0%	4.5%	7.0%	8.0%	11.5%	40.0%	4.6%	2.43
Pinnacle West Capital (PNW)	4.5%	4.0%	4.0%	3.5%	5.5%	4.0%	2.5%	2.0%	3.0%	9.5%	34.0%	3.2%	1.31
Portland General Elec. (POR)	4.0%	5.0%	3.0%	5.0%	6.0%	3.0%	5.0%	5.5%	4.0%	9.5%	35.0%	3.3%	1.20
Pub Sv Enterprise Grp. (PEG)	2.0%	4.0%	4.0%	4.5%	4.5%	2.0%	4.0%	5.5%	3.0%	13.0%	38.0%	4.9%	1.82
Sempra Energy (SRE)	7.0%	8.5%	7.0%	12.0%	7.5%	9.0%	7.0%	5.5%	5.5%	11.5%	50.0%	5.8%	1.37
Southern Company (SO)	3.0%	3.5%	3.0%	3.0%	3.5%	2.5%	6.5%	3.5%	3.5%	14.5%	33.0%	4.8%	2.24
Mean	4.4%	4.9%	3.8%	4.4%	4.9%	4.3%	5.1%	4.3%	4.3%	10.4%	36.9%	3.9%	1.46
Median	3.5%	4.5%	4.0%	4.0%	5.0%	4.0%	5.0%	4.0%	4.0%	10.0%	37.5%	4.0%	1.39

Average of Historical Median Firgures

4.2%

Average of Projected Median Figures

Median of Sustainable Internal Growth

4.3%

4.0%

Source: Value Line Investment Survey, September 8, 2023.

Except: ConEd, Duke, Exelon, P.S. Enterprise, Southern (August 11, 2023); Edison Internat'l, IDACORP, NorthWestern, Pinnacle, Portland Gen., Sempra (July 21, 2023). On the Value Line Investment Survey Est'd '20-'22 to '26-'28 is the estimated growth rate from the base period 2020 to 2022 until the future period 2026 to 2028.

\* Value Line did not list data for these entries.

NMF - Value Line indicates NMF is not meaninful. Ratios are so high or low that they are not useful for investment research.

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### DCF Equity Growth Rates Analysts Projected EPS Growth Rate Estimates

Company	Yahoo Fin.	Zacks	S&P Cap	Mean
Allete Inc. (ALE)	8.1%	8.1%	8.1%	8.1%
Ameren Corp. (AEE)	5.9%	6.4%	7.0%	6.4%
American Electric Power				
Company Inc. (AEP)	5.2%	5.6%	6.0%	5.6%
Avista Corp. (AVA)	6.3%	6.3%	5.1%	5.9%
Black Hills Corp. (BKH)	5.4%	2.2%	5.1%	4.2%
CenterPoint Energy (CNP)	-1.1%	7.5%	8.0%	7.8%
CMS Energy Corp. (CMS)	7.8%	7.8%	7.9%	7.8%
Consolidated Edison Inc. (ED)	6.1%	2.0%	5.9%	4.1%
DTE Energy Co. (DTE)	6.3%	6.0%	7.0%	6.4%
Duke Energy Co. (DUK)	6.2%	6.1%	6.0%	6.1%
Edison International (EIX)	5.0%	3.7%	5.6%	4.8%
Entergy Corp. (ETR)	6.6%	5.7%	6.9%	6.4%
Exelon Corp. (EXC)	6.3%	6.3%	6.8%	6.5%
IDACORP Inc. (IDA)	3.7%	3.7%	4.8%	4.1%
NorthWestern Corp. (NWE)	3.7%	5.2%	5.1%	4.7%
OGE Energy Corp. (OGE)	-12.3%	3.7%	2.8%	3.3%
Otter Tail Corp. (OTTR)	9.0%	NA	6.8%	7.9%
Pinnacle West Capital (PNW)	6.1%	6.5%	6.5%	6.4%
Portland General Elec. (POR)	5.9%	6.0%	6.8%	6.2%
Pub Sv Enterprise Grp. (PEG)	5.5%	5.5%	5.8%	5.6%
Sempra Energy (SRE)	4.1%	5.0%	5.0%	4.7%
Southern Company (SO)	7.3%	4.0%	6.0%	5.8%
Mean	6.0%	5.4%	6.1%	5.8%
Median	6.1%	5.7%	6.0%	6.0%

Sources: http://finance.yahoo.com; www.zacks.com; S&P Cap IQ; September 2023. See links below.

Yahoo Finance - https://finance.yahoo.com/quote/SO/analysis?p=SO

Zacks - https://www.zacks.com/stock/quote/bkh/detailed-earning-estimates

S&P Capital IQ - https://www.capitaliq.spglobal.com/web/client?auth=inherit#company/estimateHighli

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## **DCF Growth Rate Indicators**

Growth Rate Indicator	Electric Group
Historic Value Line Growth	
in EPS, DPS, and BVPS	4.1%
Projected Value Line Growth	
in EPS, DPS, and BVPS	4.3%
Sustainable Growth	
<b>ROE</b> * Retention Rate	4.0%
Projected EPS Growth from Yahoo, Zacl	Χ\$,
and S&P Cap IQ - Mean/Median	5.8% / 6.0%

Attachment LDC-2 Cause No. 45911 Page 1 **629** 

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Congressional Budget Office Nonpartisan Analysis for the U.S. Congress



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# At a Glance

The Congressional Budget Office regularly publishes reports presenting its baseline projections of what the federal budget and the economy would look like in the current year and over the next 10 years if current laws governing taxes and spending generally remained unchanged. This report is the latest in that series.

**The Budget.** CBO projects a federal budget deficit of \$1.4 trillion for 2023. (Deficits and spending have been adjusted to exclude the effects of shifts that occur in the timing of certain payments when October 1 falls on a weekend.) In the agency's projections, deficits generally increase over the coming years; the shortfall in 2033 is \$2.7 trillion. The deficit amounts to 5.3 percent of gross domestic product (GDP) in 2023, swells to 6.1 percent of GDP in 2024 and 2025, and then declines in the two years that follow. After 2027, deficits increase again, reaching 6.9 percent of GDP in 2033—a level exceeded only five times since 1946 (see Chapter 1).

In CBO's projections, outlays and revenues measured as a percentage of GDP equal or exceed their 50-year averages through 2033. Outlays increase from 23.7 percent of GDP in 2023 (a high level by historical standards) to 24.9 percent in 2033, largely because of rising interest costs and greater spending on programs that provide benefits to elderly people. Revenues amount to 18.3 percent of GDP in 2023. They then decline over the next two years before increasing after 2025, when certain provisions of the 2017 tax act expire. Revenues are roughly stable after 2027; they total 18.1 percent of GDP in 2033.

Debt held by the public is projected to rise in relation to the size of the economy each year, reaching 118 percent of GDP by 2033—which would be the highest level ever recorded. Debt would continue to grow beyond 2033 if current laws generally remained unchanged.

**Changes in CBO's Budget Projections.** CBO's projection of the deficit for 2023 is now \$0.4 trillion more than it was in May 2022; the projection of the cumulative deficit over the 2023–2032 period is now \$3.1 trillion (or about 20 percent) more, largely because of newly enacted legislation and changes in CBO's economic forecast, including higher projected inflation and interest rates (see Appendix A).

The Economy. To combat high inflation, the Federal Reserve sharply increased the target range for the federal funds rate in 2022. In CBO's projections, inflation gradually slows in 2023 as pressures ease from factors that, since mid-2020, have caused demand to grow more rapidly than supply. Output stagnates and unemployment rises in 2023, partially as a result of tighter monetary policy. After that, inflation slowly returns to the Federal Reserve's long-run goal of 2 percent, and output grows at a more robust pace as interest rates decrease (see Chapter 2).

**Changes in CBO's Economic Projections.** The agency projects much weaker growth of real GDP for 2023 than it did last May, stronger growth during the 2024–2026 period, and similar rates of growth over the remainder of the projection period. CBO now projects higher inflation for 2023 and 2024 than it did last May, mainly for two reasons: Recent data suggest that inflation has been more persistent across many sectors of the economy than CBO anticipated, and supply-side disruptions have remained greater than the agency previously forecast. CBO now expects both short- and long-term interest rates to be higher, on average, over the next five years than forecast last May, mostly because of higher projected inflation.

## **By the Numbers**

#### **Budget Outlook, by Fiscal Year**

	P	ercentage o	f Gross Dom	estic Produc	t		Billions	of Dollars	
	Average, 1973–2022	Actual, 2022	2023	2024	2033	Actual, 2022	2023	2024	2033
Revenues, Total	17.4	19.6	18.3	17.7	18.1	4,896	4,812	4,838	7,098
Individual income taxes	8.0	10.5	9.6	9.0	9.7	2,632	2,523	2,467	3,803
Payroll taxes	6.0	5.9	6.0	6.0	5.9	1,484	1,562	1,633	2,307
Corporate income taxes	1.8	1.7	1.8	1.8	1.4	425	475	479	539
Other	1.6	1.4	1.0	1.0	1.1	356	251	260	449
Outlays, Total	21.0	24.8	23.7	23.8	24.9	6,208	6,206	6,493	9,799
Mandatory, subtotal	10.9	16.3	14.6	14.3	15.3	4,076	3,825	3,885	5,997
Social Security	4.4	4.8	5.1	5.3	6.0	1,213	1,336	1,450	2,355
Major health care									
programs	3.3	5.6	5.7	5.6	6.7	1,404	1,508	1,528	2,629
Medicare, net of offsetting receipts	2.0	2.8	3.1	3.3	4.1	710	820	894	1,623
Medicaid, CHIP, and									
marketplace subsidies		2.8	2.6	2.3	2.6	695	688	634	1,005
Other	3.2	5.8	3.7	3.3	2.6	1,459	981	908	1,014
Discretionary, subtotal	8.0	6.6	6.6	6.9	6.0	1,657	1,741	1,869	2,373
Defense	4.3	3.0	3.1	3.1	2.8	746	800	848	1,105
Nondefense	3.8	3.6	3.6	3.7	3.2	910	941	1,022	1,269
Net interest	2.0	1.9	2.4	2.7	3.6	475	640	739	1,429
Deficit, Total	-3.6	-5.2	-5.3	-6.1	-6.9	-1,312	-1,394	-1,655	-2,702
Deficit, Primary	-1.5	-3.3	-2.9	-3.4	-3.2	-837	-755	-916	-1,273
Debt Held by the Public	46.9	97.0	98.0	100.4	118.2	24,257	25,716	27,370	46,445

See Chapter 1. When October 1 falls on a weekend, certain payments that would have ordinarily been made on that day are instead made at the end of September and thus are shifted into the previous fiscal year. Mandatory outlays, discretionary outlays, and deficits have been adjusted to exclude the effects of those timing shifts.

#### **Economic Outlook, by Calendar Year**

Percent

					Annual	Average
	Actual, 2022	2023	2024	2025	2026– 2027	2028– 2033
			Change Fron	1 Year to Year		
Real (Inflation-adjusted) GDP	2.1	0.3	1.8	2.7	2.4	1.8
Inflation						
PCE price index	6.2	3.8	2.7	2.2	2.1	2.0
Consumer price index	8.0	4.8	3.0	2.2	2.1	2.3
			Annual	Average		
Unemployment Rate	3.6	4.7	4.9	4.7	4.5	4.5
Payroll Employment (Monthly change, in thousands)	427	9	66	97	80	67
Interest Rates						
3-month Treasury bills	2.0	4.5	3.2	2.5	2.2	2.3
10-year Treasury notes	3.0	3.9	3.8	3.8	3.8	3.8
Tax Bases (Percentage of GDP)						
Wages and salaries	43.8	44.3	44.5	44.5	44.3	44.0
Domestic corporate profits (Estimated value for 2022)	9.7	7.9	7.5	7.9	8.2	8.0

See Table 2-1 on page 35. Actual values for 2022 reflect data available from the Bureau of Economic Analysis and the Bureau of Labor Statistics in early February 2023. The data contain values for the fourth quarter of 2022, which were not available when CBO developed its current projections.

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## Notes

The budget projections in this report include the effects of legislation enacted through January 9, 2023, and are based on the Congressional Budget Office's economic projections. Those economic projections reflect economic developments and information as of December 6, 2022, and are available on CBO's website (www.cbo.gov/data/budget-economic-data#4).

Unless this report indicates otherwise, the historical data shown in figures, tables, and text describing the economic forecast reflect more recent fourth-quarter data available from the Bureau of Economic Analysis and other sources in early February 2023.

Unless the report indicates otherwise, all years referred to in describing the budget outlook are federal fiscal years, which run from October 1 to September 30 and are designated by the calendar year in which they end. Years referred to in describing the economic outlook are calendar years.

Numbers in the text, tables, and figures may not add up to totals because of rounding.

Some of the figures in this report use shaded vertical bars to indicate periods of recession. (A recession extends from the peak of a business cycle to its trough.)

Previous editions of this report often included an appendix of historical budget data. Those data and other supplemental data for this analysis are available on CBO's website (www.cbo.gov/publication/58848#data), as are a glossary of common budgetary and economic terms (www.cbo.gov/publication/42904), a description of how CBO prepares its baseline budget projections (www.cbo.gov/publication/53532), a description of how CBO prepares its economic forecast (www.cbo.gov/publication/53537), and previous editions of this report (https://tinyurl.com/4dt4hshv).

# **Chapter 2: The Economic Outlook**

## **Overview**

This chapter provides details about the Congressional Budget Office's February 2023 economic projections, which the agency used as the basis for updating its budget projections. Inflation continued at a high rate in 2022, reflecting supply disruptions, the effects of the Russian invasion of Ukraine on food and energy prices, a tight labor market, and the effects of fiscal policy. In response, the Federal Reserve sharply raised interest rates. Output showed modest growth during 2022. In 2023, economic activity is projected to stagnate, with rising unemployment and falling inflation.

#### The Economic Outlook for 2023 to 2027

CBO's projections reflect economic developments as of December 6, 2022; the agency's initial assessments of full-year discretionary funding for the federal government for fiscal year 2023 (which were 4 percent lower in total than CBO's current estimates); and the assumption that current laws governing federal taxes and spending generally remain in place. In those projections, elevated inflation initially persists as shelter (housing) costs and wages continue to rise and as supply disruptions gradually decline:

- Inflation, which was slightly lower in 2022 than in 2021 but higher than in any other year since 1981, continues to exceed the Federal Reserve's long-run goal of 2 percent through 2023 and 2024 before nearing that rate by 2026. As measured by the price index for personal consumption expenditures (PCE), inflation is 3.3 percent in 2023, reflecting the lagged effects of higher home prices on rents as well as tight labor markets.<sup>1</sup> In 2024, inflation falls to 2.4 percent as labor markets soften and increases in rents slow. After 2024, inflation approaches the Federal Reserve's goal of 2 percent, reaching 2.2 percent in 2025 and 2.1 percent in 2026.
- Interest rates on Treasury securities rise further in early 2023 and then gradually recede beginning

in late 2023. To reduce inflationary pressures, the Federal Reserve raises the federal funds rate (the rate that financial institutions charge each other for overnight loans of their monetary reserves) again in early 2023. That rate reaches 5.1 percent by the end of the first quarter of 2023 and remains there through the end of the third quarter of 2023; it averages 4.8 percent during the fourth quarter of 2023. As inflation slows and unemployment rises, the federal funds rate continues to fall, reaching 3.0 percent by the end of 2024. The interest rate on 10-year Treasury notes remains at 3.8 percent after 2023.

- Output growth comes to a halt in early 2023 in response to the sharp rise in interest rates during 2022. Real gross domestic product (that is, GDP adjusted to remove the effects of inflation) grows by just 0.1 percent in 2023, restrained by declining home building and inventory investment (see Figure 2-1). As financial conditions gradually ease after 2023, the annual growth rate of real GDP averages 2.4 percent from 2024 to 2027.
- Conditions in the labor market deteriorate in 2023. Payroll employment stagnates, and the unemployment rate rises from 3.6 percent in the fourth quarter of 2022 to 5.1 percent at the end of 2023. The unemployment rate then gradually declines to 4.5 percent by the end of 2027 (see Table 2-1). The size of the labor force, which finally regained its prepandemic level in the second half of 2022, continues to rise, although at a modest pace.

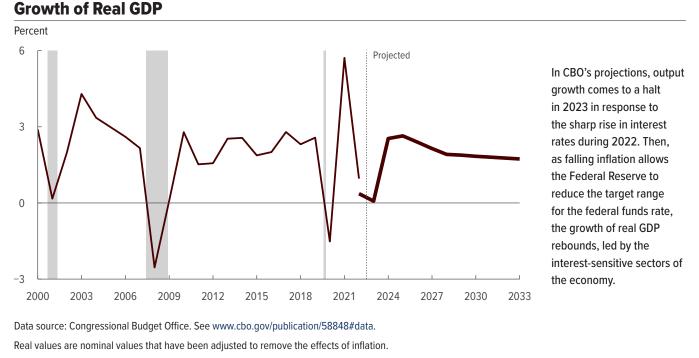
#### The Economic Outlook for 2028 to 2033

In CBO's forecast, economic output expands slightly less rapidly from 2028 to 2033 than it does over the 2024– 2027 period. Real GDP grows by 1.8 percent per year, on average, the same as the growth rate of real potential GDP (that is, the maximum sustainable output of the economy). The level of real GDP is slightly below the level of real potential GDP from 2028 to 2033, in line with their historical relationship, on average.

In CBO's projections for the 2028–2033 period, the growth rate of potential output is similar to the average

<sup>1.</sup> Unless this report indicates otherwise, annual growth rates are measured from the fourth quarter of one year to the fourth quarter of the next.

#### Figure 2-1.



Growth of real GDP is measured from the fourth quarter of one calendar year to the fourth quarter of the next.

Values for 2000 to 2022 (the thin line) reflect data available from the Bureau of Economic Analysis in early February 2023. The data contain values for the fourth quarter of 2022, which were not available when CBO developed its current projections for 2022 to 2033 (the thick line).

GDP = gross domestic product.

growth rate of potential output since the business cycle peak in late 2007; however, the growth rate of the potential labor force is slower, and the growth rate of potential labor force productivity is more rapid. Nevertheless, potential output grows much more slowly than it has over the past 30 years, partly because of slower productivity growth but mainly because of an ongoing, longterm slowdown in the growth of the labor force.

#### **Uncertainty About the Economic Outlook**

CBO develops its projections so that they fall in the middle of the likely range of outcomes under current law. But those projections are highly uncertain, and many factors could lead to different outcomes. The upward pressure on wages and prices from conditions in the labor market could be greater or less than the agency expects. Economic output and conditions in the labor market could also vary from those in CBO's forecast. In the short run, higher interest rates could have larger- or smaller-than-expected effects on overall demand for goods and services and demand for labor. In the long run, the pace of potential output in the aftermath of the coronavirus pandemic could be faster or slower than expected. Other key sources of uncertainty are future monetary policy and the path of interest rates. Uncertainty about that path contributes to the uncertainty of the agency's estimates of the effect of larger deficits and debt on the economy. Geopolitical events, including Russia's ongoing invasion of Ukraine, add to the uncertainty of the economic outlook, notably the outlook for inflation.

#### **Comparison With CBO's Previous Projections**

Real GDP grew more slowly in each quarter of 2022 than the agency expected.<sup>2</sup> An upward revision to GDP in 2021 mitigated some of the effect of slower growth in 2022 on the level of GDP at the end of 2022.

Compared with its May 2022 projections, CBO's current projections show weaker economic growth in 2023 (0.1 percent versus 2.2 percent) and stronger growth in 2024 (2.5 percent versus 1.5 percent) and the

See Congressional Budget Office, *The Budget and Economic Outlook: 2022 to 2032* (May 2022), www.cbo.gov/publication/57950.

#### Table 2-1.

## **CBO's Economic Projections for Calendar Years 2023 to 2033**

Percent

Percent					Annual	Average
	Actual, 2022	2023	2024	2025	2026– 2027	2028– 2033
		Change F	rom Fourth Q	uarter to Fou	rth Quarter	
Gross Domestic Product						
Real <sup>a</sup>	1.0	0.1	2.5	2.6	2.3	1.8
Nominal	7.3	3.1	4.9	4.8	4.3	3.8
Inflation						
PCE price index	5.5	3.3	2.4	2.2	2.0	2.0
Core PCE price index <sup>b</sup>	4.7	3.4	2.7	2.4	2.2	2.0
Consumer price index <sup>c</sup>	7.1	4.0	2.4	2.1	2.1	2.3
Core consumer price index <sup>b</sup>	6.0	4.2	2.8	2.3	2.2	2.3
GDP price index	6.3	3.0	2.3	2.1	2.0	2.0
Employment Cost Index <sup>d</sup>	5.1	4.5	3.8	3.5	3.3	3.2
			Fourth-Qu	arter Level		
Unemployment Rate	3.6	5.1	4.8	4.6	4.1 <sup>e</sup>	4.5 <sup>f</sup>
			Change From	n Year to Year	r	
Gross Domestic Product			•			
Realª	2.1	0.3	1.8	2.7	2.4	1.8
Nominal	9.2	4.0	4.4	4.9	4.4	3.9
Inflation						
PCE price index	6.2	3.8	2.7	2.2	2.1	2.0
Core PCE price index <sup>b</sup>	5.0	3.9	2.9	2.5	2.2	2.0
Consumer price index <sup>c</sup>	8.0	4.8	3.0	2.2	2.1	2.3
Core consumer price index <sup>b</sup>	6.1	4.9	3.3	2.5	2.2	2.3
GDP price index	7.0	3.7	2.5	2.1	2.0	2.0
Employment Cost Index <sup>d</sup>	5.3	4.9	4.0	3.6	3.4	3.2
			Annual	Average		
Unemployment Rate	3.6	4.7	4.9	4.7	4.5	4.5
Payroll Employment (Monthly change, in thousands) <sup>9</sup>	427	9	66	97	80	67
Interest Rates						
3-month Treasury bills	2.0	4.5	3.2	2.5	2.2	2.3
10-year Treasury notes	3.0	3.9	3.8	3.8	3.8	3.8
Tax Bases (Percentage of GDP)						
Wages and salaries	43.8	44.3	44.5	44.5	44.3	44.0
Domestic corporate profits <sup>h</sup>	9.7 <sup>i</sup>	7.9	7.5	7.9	8.2	8.0
Current Account Balance (Percentage of GDP) <sup>j</sup>	-4.0 <sup>i</sup>	-4.1	-3.7	-3.3	-3.2	-3.2

Data sources: Congressional Budget Office; Bureau of Economic Analysis; Bureau of Labor Statistics; Federal Reserve. See www.cbo.gov/publication/58848#data.

For economic projections for each year from 2023 to 2033, see Appendix B.

Actual values for 2022 reflect data available from the Bureau of Economic Analysis and the Bureau of Labor Statistics in early February 2023. The data contain values for the fourth quarter of 2022, which were not available when CBO developed its current projections.

GDP = gross domestic product; PCE = personal consumption expenditures.

a. Real values are nominal values that have been adjusted to remove the effects of inflation.

b. Excludes prices for food and energy.

- c. The consumer price index for all urban consumers.
- d. The employment cost index for wages and salaries of workers in private industry.
- e. Value for the fourth quarter of 2027.
- f. Value for the fourth quarter of 2033.
- g. The average monthly change is calculated by dividing by 12 the change in nonfarm payrolls from the fourth quarter of one calendar year to the fourth quarter of the next.

h. Adjusted to remove the effect of tax rules on depreciation allowances and to exclude the effect of changes in prices on the value of inventories.

i. Estimated value for 2022.

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j. Represents net exports of goods and services, net capital income, and net transfer payments between the United States and the rest of the world.
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# Appendix B: CBO's Economic Projections for 2023 to 2033

The tables in this appendix show the Congressional Budget Office's economic projections for each year from 2023 to 2033. For the projections by calendar year, see Table B-1; for the projections by fiscal year, see Table B-2.

Table B-1.

#### **CBO's Economic Projections, by Calendar Year**

Percent												
	Actual, 2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
					Chang	e From \	lear to Y	ear				
Gross Domestic Product					J							
Realª	2.1	0.3	1.8	2.7	2.4	2.3	2.0	1.9	1.9	1.8	1.8	1.7
Nominal	9.2	4.0	4.4	4.9	4.5	4.3	4.0	3.9	3.9	3.8	3.8	3.7
Inflation												
PCE price index	6.2	3.8	2.7	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9
Core PCE price index <sup>b</sup>	5.0	3.8	2.9	2.5	2.3	2.1	2.1	2.0	2.0	2.0	2.0	2.0
Consumer price index <sup>c</sup>	8.0	4.8	3.0	2.2	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.3
Core consumer price index <sup>b</sup>	6.1	4.9	3.3	2.5	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3
GDP price index	7.0	3.7	2.5	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9
Employment Cost Index <sup>d</sup>	5.3	4.9	4.0	3.6	3.4	3.3	3.3	3.2	3.2	3.2	3.2	3.1
					Cale	ndar Yea	r Averaq	e				
Unemployment Rate	3.6	4.7	4.9	4.7	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Payroll Employment (Monthly change, in thousands) <sup>e</sup>	427	9	66	97	83	77	79	72	64	63	59	63
Interest Rates												
3-month Treasury bills	2.0	4.5	3.2	2.5	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3
10-year Treasury notes	3.0	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
Tax Bases (Percentage of GDP)												
Wages and salaries	43.8	44.3	44.5	44.5	44.4	44.2	44.1	44.1	44.0	44.0	43.9	43.9
Domestic corporate profits <sup>f</sup>	9.7 <sup>g</sup>	7.9	7.5	7.9	8.1	8.2	8.2	8.1	8.0	8.0	7.9	7.9
Tax Bases (Billions of dollars)												
Wages and salaries	11,153	11,719	12,276	12,874	13,432	13,946	14,481	15,039	15,611	16,197	16,791	17,395
Domestic corporate profits <sup>f</sup>	2,466 <sup>g</sup>	2,077	2,063	2,298	2,457	2,599	2,689	2,764	2,846	2,934	3,033	3,131
Nominal GDP (Billions of dollars)	25,461	26,438	27,592	28,947	30,262	31,573	32,843	34,138	35,468	36,832	38,225	39,646

Data source: Congressional Budget Office. See www.cbo.gov/publication/58848#data.

Actual values for 2022 reflect data available from the Bureau of Economic Analysis and the Bureau of Labor Statistics in early February 2023. The data contain values for the fourth quarter of 2022, which were not available when CBO developed its current projections.

GDP = gross domestic product; PCE = personal consumption expenditures.

- a. Real values are nominal values that have been adjusted to remove the effects of inflation.
- b. Excludes prices for food and energy.
- c. The consumer price index for all urban consumers.
- d. The employment cost index for wages and salaries of workers in private industry.

e. The average monthly change is calculated by dividing by 12 the change in nonfarm payrolls from the fourth quarter of one calendar year to the fourth quarter of the next.

f. Adjusted to remove the effects of tax rules on depreciation allowances and to exclude the effects of changes in prices on the value of inventories.

g. Estimated value for 2022.

# FEDERAL RESERVE press release

For release at 2:00 p.m. EDT



September 20, 2023

Recent indicators suggest that economic activity has been expanding at a solid pace. Job gains have slowed in recent months but remain strong, and the unemployment rate has remained low. Inflation remains elevated.

The U.S. banking system is sound and resilient. Tighter credit conditions for households and businesses are likely to weigh on economic activity, hiring, and inflation. The extent of these effects remains uncertain. The Committee remains highly attentive to inflation risks.

The Committee seeks to achieve maximum employment and inflation at the rate of 2 percent over the longer run. In support of these goals, the Committee decided to maintain the target range for the federal funds rate at 5-1/4 to 5-1/2 percent. The Committee will continue to assess additional information and its implications for monetary policy. In determining the extent of additional policy firming that may be appropriate to return inflation to 2 percent over time, the Committee will take into account the cumulative tightening of monetary policy, the lags with which monetary policy affects economic activity and inflation, and economic and financial developments. In addition, the Committee will continue reducing its holdings of Treasury securities and agency debt and agency mortgage-backed securities, as described in its previously announced plans. The Committee is strongly committed to returning inflation to its 2 percent objective.

In assessing the appropriate stance of monetary policy, the Committee will continue to monitor the implications of incoming information for the economic outlook. The Committee -2-

would be prepared to adjust the stance of monetary policy as appropriate if risks emerge that could impede the attainment of the Committee's goals. The Committee's assessments will take into account a wide range of information, including readings on labor market conditions, inflation pressures and inflation expectations, and financial and international developments.

Voting for the monetary policy action were Jerome H. Powell, Chair; John C. Williams, Vice Chair; Michael S. Barr; Michelle W. Bowman; Lisa D. Cook; Austan D. Goolsbee; Patrick Harker; Philip N. Jefferson; Neel Kashkari; Adriana D. Kugler; Lorie K. Logan; and Christopher J. Waller.

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For media inquiries, please email <u>media@frb.gov</u> or call 202-452-2955. Attachment For release at 2:00 p.m. EDT

September 20, 2023

## **Decisions Regarding Monetary Policy Implementation**

The Federal Reserve has made the following decisions to implement the monetary policy stance announced by the Federal Open Market Committee in its <u>statement</u> on September 20, 2023:

- The Board of Governors of the Federal Reserve System voted unanimously to maintain the interest rate paid on reserve balances at 5.4 percent, effective September 21, 2023.
- As part of its policy decision, the Federal Open Market Committee voted to direct the Open Market Desk at the Federal Reserve Bank of New York, until instructed otherwise, to execute transactions in the System Open Market Account in accordance with the following domestic policy directive:

"Effective September 21, 2023, the Federal Open Market Committee directs the Desk to:

- Undertake open market operations as necessary to maintain the federal funds rate in a target range of 5-1/4 to 5-1/2 percent.
- Conduct standing overnight repurchase agreement operations with a minimum bid rate of 5.5 percent and with an aggregate operation limit of \$500 billion.
- Conduct standing overnight reverse repurchase agreement operations at an offering rate of 5.3 percent and with a per-counterparty limit of \$160 billion per day.
- Roll over at auction the amount of principal payments from the Federal Reserve's holdings of Treasury securities maturing in each calendar month that exceeds a cap of \$60 billion per month. Redeem Treasury coupon securities up to this monthly cap and Treasury bills to the extent that coupon principal payments are less than the monthly cap.
- Reinvest into agency mortgage-backed securities (MBS) the amount of principal payments from the Federal Reserve's holdings of agency debt and agency MBS received in each calendar month that exceeds a cap of \$35 billion per month.
- Allow modest deviations from stated amounts for reinvestments, if needed for operational reasons.
- Engage in dollar roll and coupon swap transactions as necessary to facilitate settlement of the Federal Reserve's agency MBS transactions."
- In a related action, the Board of Governors of the Federal Reserve System voted unanimously to approve the establishment of the primary credit rate at the existing level of 5.5 percent.

Attachment LDC-3 Cause No. 45911 Page 4 of 4

This information will be updated as appropriate to reflect decisions of the Federal Open Market Committee or the Board of Governors regarding details of the Federal Reserve's operational tools and approach used to implement monetary policy.

More information regarding open market operations and reinvestments may be found on the Federal Reserve Bank of New York's <u>website</u>.

Attachment LDC-4 Cause No. 45911 Page 1 of 3

## **CAPM Cost of Equity Summary -- Electric Group**

CAPM Formula:  $K = R_f + b(R_m - R_f)$ 

Risk Free Rate (R <sub>f</sub> )	4.3%
Beta (β) - Value Line	0.92
Equity Risk Premium (Rm - Rf) *	5.5%
Equity Cost Rate	9.3%

\* Source: Attachment LDC-6, page 1.

Attachment LDC-4 Cause No. 45911 Page 2 of 3

#### Yields on U.S. Treasury Bonds

	Treasury	10 Year Treasury	20 Year Treasury	30 Year Treasury
Month	Bonds	Bonds	Bonds	Bonds
9/12/2023	4.41%	4.27%	4.54%	4.35%
9/5/2023	4.37%	4.27%	4.56%	4.38%
8/29/2023	4.26%	4.12%	4.42%	4.23%
8/22/2023	4.49%	4.34%	4.61%	4.42%
8/15/2023	4.36%	4.21%	4.49%	4.32%
8/8/2023	4.10%	4.02%	4.35%	4.20%
8/1/2023	4.24%	4.05%	4.30%	4.11%
7/25/2023	4.15%	3.91%	4.14%	3.95%
7/18/2023	4.00%	3.80%	4.08%	3.91%
7/11/2023	4.24%	3.99%	4.22%	4.03%
7/3/2023	4.19%	3.86%	4.08%	3.87%
6/27/2023	4.02%	3.77%	4.03%	3.84%
6/20/2023	3.96%	3.73%	4.00%	3.82%
Mean	4.21%	4.03%	4.29%	4.11%
Median	4.24%	4.02%	4.30%	4.11%

Source: September 12, 2023: https://ycharts.com/indicators/5\_year\_treasury\_rate; https://ycharts.com/indicators/10\_year\_treasury\_rate; https://ycharts.com/indicators/20\_year\_treasury\_rate; https://ycharts.com/indicators/30\_year\_treasury\_rate

Kroll Risk Free Rate - Attachment LDC-6, p. 4.	3.50%
20-Year Treasury Bond Rate	4.30%

Attachment LDC-4 Cause No. 45911 Page 3 of 3

### **Beta for Electric Group**

Company Name	Value Line Betas*
Allete Inc. (ALE)	0.90
Ameren Corp. (AEE)	0.85
American Electric Power Company Inc. (AEP)	0.80
Avista Corp. (AVA)	0.90
Black Hills Corp. (BKH)	1.00
CenterPoint Energy (CNP)	1.10
CMS Energy Corp. (CMS)	0.80
Consolidated Edison Inc. (ED)	0.80
DTE Energy Co. (DTE)	0.95
Duke Energy Co. (DUK)	0.85
Edison International (EIX)	1.00
Entergy Corp. (ETR)	0.95
Exelon Corp. (EXC)	NMF
IDACORP Inc. (IDA)	0.80
NorthWestern Corp. (NWE)	0.95
OGE Energy Corp. (OGE)	1.05
Otter Tail Corp. (OTTR)	0.90
Pinnacle West Capital (PNW)	0.90
Portland General Elec. (POR)	0.90
Pub Sv Enterprise Grp. (PEG)	0.95
Sempra Energy (SRE)	1.00
Southern Company (SO)	0.90
Mean	0.92

\* See Attachment LDC-5, pp. 1-22.

Sources: http://finance.yahoo.com; www.zacks.com; S&P Cap IQ; September 2023.

ΔI I	FTF		=				R	ecent Rice	55.86	P/E RATI	o <b>13</b> .9		ng: 16.4 an: 19.0)	RELATIVE P/E RATIO		3 DIV'D YLD	4.9	%		E	of 2
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3.08	2.82		2.19	2.65	2.58	2.63	2.90	3.38	3.14	3.13	3.38	3.33	3.35	3.23	3.38	3.70	4.05		s per sh <sup>A</sup>		5.
1.64 6.82	1.72 9.24		1.76 6.95	1.78 6.38	1.84 10.30	1.90 7.93	1.96 12.48	2.02	2.08	2.14 4.08	2.24 6.07	2.35 11.55	2.47 13.78	2.52 8.90	2.60	2.71 5.95	2.79 5.95		cl'd per s ending p		3
24.11	25.37	26.41	27.26	28.78	30.48	32.44	35.06	37.07	38.17	40.47	41.86	43.17	44.04	45.36	47.06	49.10	51.25	Book Va	lue per sl	۱ <sup>C</sup>	54
30.80 14.8	32.60 13.9		35.80 16.0	37.50 14.7	39.40 15.9	41.40 18.6	45.90 17.2	49.10	49.60 18.6	51.10 23.0	51.50 22.2	51.70 24.7	52.10 18.3	53.20 20.6	56.01 18.1	58.00 Bold fig	59.00 ures are		n Shs Out 'I P/E Rat		61 1
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id Sto	ck None	9				5.3%	5.2%	5.8%	5.8%	5.5%	5.8%	5.6%	5.3%	4.8%	5.6%	5.5%	5.5%	Return o	n Total C		6.
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(46¢); '17, 25¢; '19, 26¢; '19 EPS don't súm due to rounding. Next earnings report due early Nov. (B) Div'ds historically paid in early Mar., (E) Rate base: Orig. cost depr. Rate all'd in MN

Regul. Climate: Avg. (F) Sumeq., '21: 7.2%. R mer peak in '21.

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Company's	Financial Strength	А
Stock's Pric	e Stability	90
Price Growt	h Persistence	45
Earnings Pr	edictability	90

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36.23	36.92	29.87	31.77	31.04	28.14	24.06	24.95	25.13	25.04	25.46	25.73	24.00	22.87	24.81	30.37	31.00	31.60	Revenue		00.220	32.65
6.76	6.44	6.06	6.33	5.87	5.87	5.25	5.77	6.08	6.59	6.80	7.64	7.83	8.08	8.89	9.59	9.50	10.05		ow" per		12.20
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32.41 208.30	32.80 212.30	33.08 237.40	32.15 240.40	32.64 242.60	27.27 242.63	26.97 242.63	27.67 242.63	28.63 242.63	29.27 242.63	29.61 242.63	31.21 244.50	32.73 246.20	35.29 253.30	37.64 257.70	40.11 262.00	40.20	42.90 269.00	Book Va Commor	•		55.00 285.00
17.4	14.2	9.3	9.7	11.9	13.4	16.5	16.7	17.5	18.3	20.6	18.3	22.1	22.2	21.4	21.5	Bold fig	ures are	Avg Ann	'l P/E Ra	tio	20.0
.92. 4.9%	.85 6.2%	.62 6.0%	.62 5.8%	.75 5.3%	.85 5.0%	.93 4.6%	.88 4.0%	.88 4.0%	.96 3.5%	1.04 3.1%	.99 3.0%	1.18 2.6%	1.14 2.6%	1.16	1.24 2.7%	Value estin		Relative Avg Ann			1.10 3.0%
			as of 6/30		0.070	5838.0	6053.0	6098.0	6076.0	6177.0	6291.0	5910.0	5794.0	6394.0	7957.0	8270	8500				9300
Total De	ebt \$160	07 mill. <b>I</b>	Due in 5 \ T Interes	<b>/rs</b> \$2789		518.0	593.0	585.0	659.0	683.0	821.0	834.0	877.0	995.0	1074.0.0	1190	1275	Net Prof	t (\$mill)		1570
(LT inter	rest earn	ed: 3.8x)		<b>ι</b> φ430 m		37.5% 7.1%	38.9% 5.7%	38.3%	36.7% 4.1%	38.2% 5.6%	22.4% 6.9%	17.9% 5.8%	15.0% 5.5%	13.6%	14.0% 5.0%	12.0% 6.0%	12.0% 5.0%	Income T		Profit	12.0% 4.0%
Pensio	n Assets	s-12/22 \$	5745 mill. (	Oblig \$54	l57 mill.	45.2%	47.2%	49.3%	47.7%	49.2%	50.3%	52.1%	55.0%	56.1%	56.6%	55.5%	53.5%	Long-Ter			51.0%
	ck \$129		Pfd Div'd 0 cum. (n	\$5 mill.		53.7%	51.7%	49.7%	51.3% 13840	49.8%	48.8%	47.1% 17116	44.3%	43.3%	43.4% 24193	44.0%	46.0%	Common			48.5%
stated v	al., rede	em. \$102	.176-\$11	)/sh.; 487	,508	12190 16205	12975 17424	13968 18799	20113	21466	15632 22810	24376	20158 26807	22391 29261	31262	24950 33050	25750 35000	Total Ca Net Plan		")	29500 38400
\$104.30	/sh.		) par, rede	em. \$10	J-	5.6%	5.8%	5.3%	6.0%	6.0%	6.4%	6.0%	5.3%	5.3%	5.4%	5.0%	5.0%	Return o		•	6.0%
Commo as of 7/		262,749	,535 shs.			7.7% 7.8%	8.7% 8.7%	8.3% 8.3%	9.1% 9.2%	9.3% 9.4%	10.6% 10.7%	10.2%	9.7% 9.7%	10.1%	10.2%	11.0%	11.0% 11.0%	Return o Return o			10.0% 10.0%
			lion (Larg	,		1.9%	2.9%	2.5%	3.3%	3.4%	4.8%	4.4%	4.2%	4.4%	4.4%	5.0%	5.0%	Retained			4.0%
ELECTI	RIC OPE	RATING	STATIST 2020	ICS 2021	2022	76%	67%	70%	64%	64%	56%	57%	57%	57%	57%	57%	56%	All Div'd			60%
Avg. Indust.	Retail Sales ( Use (MWH)		-3.5 NA	-5.6 NA	+2.1 NA				nion Elect					chased,	7%. F	uel costs	: 25% (	ar, 11%; of revenu	ies. Has	approx	imately
Capacity at			NA NA	NA NA	NA NA				custome									ner L. Ba ri. Addre			
Annual Load	Summer (Mi Factor (%)	,	NA NA	NA NA	NA NA	power-	generatio	n operat	tion in '1	3. Elect	ric rever	ue brea	kdown:	1901 C	houteau	Ave., P.C	D. Box 6	6149, St.	Louis, N		
	Customer's (y	r-end)	NA	NA	NA			·	rcial, 34% <b>oratio</b> :					AEE		gulato		.ameren.c		d (	ther
Fixed Charg	ie Cov. (%) L RATE	S Past	307 Ba	291 st Est'd	325				secoi					stake	eholde	ers pr	esent	staff, evide		und a	ırgu-
of change	e (per sh)	10 Yrs	. 5 Yr	s. toʻ	26-22 26-28 4.0%				ngs pe mate o							-		posed vided	-	-	0
"Cash I Earning	Flow"	-1.5 4.0 4.0	% 6.	5% 3	4.0 % 5.5% 6.5%	outp	erforn	nance	was	beca	use	AEE	was	cerni	ng a	lower	r-tĥan	-expec	eted 1	returr	n on
Dividen Book V	ds	3.5 2.0	% 5.	0% 5%	6.5% 6.5%				e a ga en off,									s a cr mines			
Cal-			EVENUES (		Full	allov	vances	s in	its $20$	23 r	ate o	rder (	how	utilit	y can	a earn	on i	ts equ	ity. V	Ve ex	pect
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year				s say Amere									highly commi			
2020 2021	1440 1566	1398 1472	1628 1811	1328 1545	5794 6394	erati	ons a	und m	ainter	nance	expe	nses t	than	Îy ru	les. I	Elsewł	nere, 1	legisla	tion	relate	ed to
2022	1879	1726	2306	2046	7957				l some ip rem									fusal' const			
2023 2024	2062 <b>2120</b>	1760 <b>1800</b>	2370 2450	2078 2130	8270 8500	earn	ings	per s	sĥare	guida	ance	for 2	023,	trans	missi	on pro	ojects	in the	ir ser	vice t	erri-
Cal-			PER SHAR		Full				a ran ates									r enti ssed			
endar 2020	Mar.31 .59	Jun.30 .98	Sep.30	.46	Year 3.50	tran	slate t	to \$0.0	09 mor	e in	earnir	ngs for	the	gover	mor's	appro	valor	r veto.			
2021	.91	.80	1.65	.48	3.84				nd an iod. F									anke erage			
2022 2023	.97 1.00	.80 .90	1.74 <b>1.83</b>	.63 <b>.67</b>	4.14 <b>4.40</b>	maci	roecon	omic	chang	ges (t	he ri	se in	$_{\mathrm{the}}$	ing	year	(Tim	eline	ss: 4,	Belo	ow A	ver-
2024	1.03	.90	2.00	.77	4.70				the e					age).	We	expect n disc	the	compa ed cos	iny to	cont	inue
Cal- endar	QUAR Mar.31		IDENDS P. Sep.30		Full Year	Elec	tric se	gmen	t ĥas s	light	ly incı	reased	l.	and t	ake a	ıdvant	age o	f high	er bas	se rat	es in
2019	.475	.475	.475	.495	1.92				alleng case o									like A cleane			
2020 2021	.495 .55	.495 .55	.495 .55	.515 .55	2.00 2.20	elect	ric se	gmen	t, whi	ch is	curre	ently	in a	said,	this i	issues	is bes	st left			
2022	.59	.59	.59	.59	2.36	cruci	ial ph ttals	nase i This	involvi is a fe	ng t	estimo	onies ess w	and here	incor <i>Kevir</i>	_	counts	•	Se	ntemb	ner 8	2023
2023	.63 ed EPS.	.63 Excl. nor	.63 nrec. gain	(105565).	Nov				Mar., Jun		_			. & gas,			npanv's	Financia		,	2023 A
10, (\$2.1	0). 11	(224). 12	106 121	17 (62	A)   Son		Div'd	oinvoct	olon ovoil	ín				ries; in '2				e Stabili			100

(A) Dinded LP3: Sext. Hornes, gain (losses).
 '10, (\$2.19); '11, (32¢); '12, (\$6.42); '17, (65¢);
 Sept. & Dec. 

 Div ds Paid and Wal., Some, '10, '04 reinvest. plan avail. (C)
 Incl. intang. In '21: \$6.60/sh. (D) In mill. (E)
 T5, 21¢. Next earnings report due early 

specified; in IL: electric, varies; in '21: gas, 9.67%; earned on avg. com. eq., '21: 10.6%.

ι	ng	September	0, 2020
	Company's Fin	ancial Strength	А
	Stock's Price S	tability	100
	Price Growth P	ersistence	90
	Earnings Predic	ctability	100

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AME	RIC	CAN	ELE	<u>C. P</u>	<u>WR</u> .	NDQ-	EP P	ecent Rice	79.20		₀ <b>14</b> .	4 (Trailin Media	ng: 19.9 an: 18.0)	RELATIV P/E RATI	5 <b>0.8</b>	6 VLD	4.2		ALUI		of 2
MELINES			7/21/23	High: Low:	45.4 37.0		63.2 45.8	65.4 52.3	71.3 56.8	78.1 61.8	81.1 62.7	96.2 72.3	105.0 65.1	91.5 74.8	105.6 80.3	98.3 77.8			Target 2026	Price	Rang
AFETY	1			LEGEN	9.40 x Divid	dends <u>p</u> sh													2020	2021	200
ECHNICAL ETA .80 (		Raised 8	/11/23	div Re Options:	elative Pric	nterest Rate e Strength	)														16
B-Month	•	,	Range			ates reces	sion														10
w-High	•	point (%	•							للبيبينين	101000			11 <sup>11-1-1</sup> -1-1	•+•-+•-1 <sub>7</sub> 1•	<sup>™™</sup> •					80
1-\$124		(25%)				attan a	յուսու	հուրի	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												+60 +50
			DNS nn'l Total	سامين	h <sup>1111</sup>	ա <sup>ս</sup> ուրըըն							•.								+40 
Pric gh 135	(+	Gain ⊦70%)	Return 17%	•••••	••••	•••••		••••••	••••••		····	••••	····								20
w 110 stitutio		-40%) Jecisiou	12% ns											•••••••	•	••••		% TO	T. RETUR		-20
40	Q2022	1Q2023	2Q2023	Percen									<u> </u>					1 yr.	THIS N STOCK -10.9	INDEX 11.5	L
Buy Sell d's(000) 390	707 496	635 532 381232	596 572 386016	shares traded	16 - 8 -											nhill		3 yr. 5 yr.	-2.1 26.7	59.2 52.2	F
· /	008	2009	2010	2011	2012	2013	2014	2015		2017	2018	2019	2020	2021	2022	2023	2024		UE LINE P		26-2
	35.56	28.22	30.01	31.27	30.77	31.48	34.78	33.51	33.31	31.35	32.84	31.49	30.04	33.30	38.20	38.00	38.80		es per sh		40.
	6.84 2.99	6.32 2.97	6.29 2.60	6.83 3.13	6.92 2.98	7.02	7.57 3.34	7.98	8.47 4.23	7.95 3.62	8.77 3.90	9.35 4.08	10.28 4.42	10.98 4.96	10.72 5.09	11.00 5.25	11.65 5.60		low" per : s per sh 4		14. 6.
1.58	1.64	1.64	1.71	1.85	1.88	1.95	2.03	2.15	2.27	2.39	2.53	2.71	2.84	3.00	3.17	3.35	3.52	Div'd De	cl'd per s	h <sup>B</sup> ∎†	4
	9.83 26.33	6.19 27.49	5.07 28.33	5.74 30.33	6.45 31.37	7.75	8.68 34.37	9.37 36.44	9.98 35.38	11.79 37.17	12.89 38.58	12.43 39.73	12.72 41.38	11.43	13.18 46.60	15.35 52.60	14.15 55.05		ending policy of the second se		14 62
	0.03	478.05	480.81	483.42	485.67	487.78	489.40	491.05	491.71	492.01	493.25	494.17	496.60	504.21	513.87	523.00	530.00		n Shs Out		550
	13.1	10.0	13.4	11.9	13.8	14.5	15.9	15.8	15.2	19.3	18.0	21.4	19.6	17.1	21.1	Bold fig	ures are Line	•	I'l P/E Rat		18
.87 3.4% 4	.79 4.2%	.67 5.5%	.85 4.9%	.75 5.0%	.88 4.6%	.81 4.2%	.84 3.8%	.80 3.8%	.80 3.5%	.97 3.4%	.97 3.6%	1.14 3.1%	1.01 3.3%	.92 3.5%	1.23 3.3%	estin			P/E Ratio		1 3.:
			as of 6/30			15357	17020	16453	16380	15425	16196	15561	14919	16792	19640	19865	20550	Revenue			22
tal Debt Debt \$3			Due in 5 \ T Interes			1549.0	1634.0	1763.4	2073.6	1783.2	1923.8	2019.0	2200.1	2488.1	2307.2 NMF	2765	2990	Net Prof	<u>, , , , , , , , , , , , , , , , , , , </u>		37
						36.2%	37.8% 9.0%	35.1%	26.8% 8.0%	33.7% 8.0%	5.8% 10.7%	12.7%	1.9% 9.7%	4.6%	7.0%	21.0% 7.0%	21.0% 7.0%	Income AFUDC	% to Net F	Profit	21.0 5.0
						51.1%	49.0%	49.8%	50.0%	51.5%	53.2%	56.1%	58.5%	58.3%	58.5%	58.0%	58.0%	•	rm Debt F		57.
ases, Un	ncapit	talized A	Innual ren	tals \$119	.6 mill.	48.9% 32913	51.0% 33001	50.2% 35633	50.0% 34775	48.5% 37707	46.8%	43.9% 44759	41.5% 49537	41.7% 53734	42.0%	42.0% 62950	42.0% 68900		n Equity F pital (\$mi		42. 75
l Stook I	Nono					40997	44117	46133	45639	50262	55099	60138	63902	66001	71283	74600	78000	Net Plan	• •	"'	87
Stock						6.0%	6.3%	6.1%	7.2%	5.9%	5.9%	5.6%	5.6%	5.6%	4.0%	4.5%	4.5%		on Total C		5.
mmon S	Stock	515,153	,841 shs.			9.6% 9.6%	9.7% 9.7%	9.9% 9.9%	11.9% 11.9%	9.8% 9.8%	10.1%	10.3% 10.3%	10.7% 10.7%	11.1%	9.7% 9.7%	10.0% 10.0%	10.0% 10.0%		on Shr. Eq on Com Ec		11.0 11.
RKET C	CAP: S	\$40.8 bil	lion (Larç	ge Cap)		3.7%	3.8%	3.9%	5.5%	3.2%	3.5%	3.4%	3.8%	4.3%	2.9%	4.0%	4.0%	Retained	to Com	Éq	4.
ECTRIC	OPE	RATING	STATIST 2020	ICS 2021	2022	62%	61%	60%	54%	67%	65%	67%	65%	61%	70%	63%	63%		s to Net F		6
hange Retail Indust. Use	I Sales (K (MWH)	(WH)	NA	+3.0 NA	NA	10 op	erating u	tilities, s	ectric Pow erves 5.5	million	custome	rs in Ark	ansas,						ces not preciation		
. Indust. Revs acity at Peak	s. per KV (Mw)	VH (¢)	NA NA	NA NA	NA NA				iana, Micł Nest Virgi										ident & ( Niholas		
k Load (Mw) ual Load Faci			NA NA	NA NA	NA NA	ary. E	lectric re	venue b	reakdown	reside	ntial, 43	%; comm	nercial,	corpora	ted: New	York. Ac	ldress: 1	Riverside	e Plaza, (	Columbu	is, O
hange Custo	omers (yr	-end)	+1.0	NA	NA	-			olesale, 1										ernet: ww	-	
d Charge Co	. /		243	272	285				ctric mpact										leveloj cts co		
INUAL R hange (pe	er sh)	10 Yrs.	. 5 Yr		26-'28	ecor	nomic	e cono	litions	s. Alt	hough	the u	itili-	load	to con	tinue	to ou	tperfo	rm th	rougł	n th
venues ash Flov		5.0	% 5.	5% 3	3.0% 5.5%				custor so see						of the levelo			g to o	ngoin	g teci	nno
rnings /idends		5.0 5.0	% 5.	0%	6.5% 5.5%	more	e cust	omers	are b	eing	straiı	ned by	/ in-	The	com	pany	cont		s to		
ok Value		3.5			6.0%				c of in npact										p <b>lify</b> it wi		
			VENUES ( Sep.30		Full Year	resid	lentia	l cust	omers	use.	The	comp	any	inter	ests	in tv	vo no	n-core	e tra	nsmis	sio
	747	3494	4066	3610	14918				oulent alf of t										d and o com		
	281 593	3826 4640	4623 5526	4061 4881	16792 19640	Ame	rican	is a	also s	eeing	; a	notice	able	previ	ously	anno	unced	l stra	tegic	revie	w
	690	4373	5415 5275	5387 5605	19865				indus g fror										int ve activ		
24 48 11-	820 EA	4750 RNINGS F	5375 Per Shari	5605 E A	20550 Full	slow	down	thro	ughout	the	cou	ntry.	The	likely	y othe	rs ah	ead, s	hould	stren	gther	ı tł
lar Ma	ar.31	Jun.30	Sep.30	Dec.31	Year	-			een br 1e com			-							AEP d nea		
	1.00 1.15	1.05 1.15	1.50 1.59	.87 1.07	4.42 4.96	wou	ld hav	e beer	n even	wors	e with	nout it	s ef-	mega	watts	of ne	ew wi	nd an	d sola	ır gei	ner
22   1	.22	1.20	1.62	1.05	5.09				e econ										s' pov		
	1.11 1.35	1.13 <b>1.35</b>	1.65 1.75	1.36 1.15	5.25 5.60				es it le whe										d Loui stocl		
			DENDS PA		Full	Evei	n with	n thes	e effor	rts, A	AEP e	xpects	in-	aver	se`in	vesto	ors se	ekin	g inc	ome.	A
dar Ma	ar.31	Jun.30	Sep.30	Dec.31	Year				rowth end of										be pr action		
	67 70	.67 .70	.67 .70	.70 .74	2.71 2.84	tight	ter fi	nancia	l cone	dition	is an	d slov	ving	share	es are	reaso	nably	price	d fron	n a va	alu
21 .7	74	.74	.74	.78	3.00				nished etter, g						standj ysts fo				ck of	near-	teri
	78 83	.78 .83	.78 .83	.83	3.17				y in th						i Dow		Silait		ptemb	oer 8,	20
Diluted E	EPS.	Excl. no	nrec. gaii	ns (losse	s): 3¢;	'15, 58¢;	'16, (1¢	); '22, (5	8¢); '23,	(34¢).	invest. pl	an avail.	(C) Incl.	intang. In	22: \$52				l Strengt	h	A
			(7¢); '11 2.99); '17		∣∠,   Nex  9,   <b>(B)</b>				late Oc e, Sept., &		(L	y in mill.						e Stabili h Persis			10 8
1. apine	(1099)	) trom dis	sc. ops.: '						. † Shareł believed to									edictabil			9

(A) Dialed EPS. Exc. nonice, gains (05858). 15(, 15, 36¢, 16, (1¢), 22, (36¢), 25, (34¢). Inivest. plan avail. (38¢); '13, (14¢); '16, (\$2.99); '17, 26¢; '19, (B) Div'ds paid early Mar., June, Sept., & Dec. (20¢); gains (loss) from disc. ops.: '06, 2¢; '08, | ■ Div'd reinvestment plan avail. † Shareholder © 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

																			Cause		45911 of 22
AVI				YSE-AV			P		36.9		-	U (Media	ng: 19.8) an: 19.0)	RELATIV P/E RATI	0 0.3		5.0	)%	/ALU LINE	E	
TIMELIN SAFET		4 Lowered 2 Raised 5		High: Low:	28.0 22.8 NDS	29.3 24.1	37.4 27.7	38.3 29.8	45.2 34.3	52.8 37.8	52.9 41.9	49.5 39.8	53.0 32.1	49.1 36.7	46.9 35.7	45.3 36.0				t Price 2027	
TECHNI		1 Raised 6		27	'.0 x Divide elative Pric	ends p sh e Strength															128 96
	0 (1.00	= Market) get Price	Range			ates recess	sion														80 64
Low-Hig		lpoint (%	•							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.,11 <sup>11</sup> 1.,1		111-111-111-1		·					48
\$34-\$57 202		6 (25%) ROJECTIO	NS		ասեղ	ىرىلىلىر. تىرالىلىرى	,,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	4 <sub>11111</sub> 11					լյուկ			•					32 24
	Price	A Gain	nn'l Total Return	·····					*****												16
High Low	50 (	+90%) +35%)	20% 12%	••••		····		•••••		•••• <sup>•</sup>	••••••••••	•••••••	••.					% TO	 T. Retur	RN 6/23	_12
	3Q2022		1Q2023	Percent								<u>  </u>		•••••••	•••••••••	••••		1 yr.	THIS STOCK -5.7	VL ARITH.* INDEX 16.5	L
to Buy to Sell Hld's(000)	138 114 61258	153 125 66349	122 134 67752	shares traded	12 - 6 -													3 yr. 5 yr.	22.6 -10.1	58.6 48.6	F
2007 26.80	<b>2008</b> 30.77		<b>2010</b> 27.29	<b>2011</b> 27.73	<b>2012</b> 25.86	2013 26.94	2014 23.66	2015 23.83		2017 22.08	2018 21.27	2019 20.03	<b>2020</b> 19.09	2021 20.13	2022 22.82	2023 23.25	2024 23.45		UE LINE P		26-28
2.93	3.98	4.45	3.62	3.78	3.70	4.36	4.36	4.92	5.30	4.87	5.01	6.06	5.16	5.34	4.40	4.90	5.35	"Cash F	es per sh low" per	sh	6.6
.72 .60	1.36 .69	1	1.65 1.00	1.72 1.10	1.32 1.16	1.85 1.22	1.84 1.27	1.89 1.32	2.15 1.37	1.95 1.43	2.07 1.49	2.97 1.55	1.90 1.62	2.10 1.69	2.12 1.76	2.30 1.84	2.45 1.92		s per sh cl'd per s		3.0 2.1
4.04 17.27	4.09 18.30		3.64 19.71	4.20 20.30	4.61 21.06	5.05 21.61	5.47 23.84	6.46 24.53	6.34 25.69	6.30 26.41	6.46 26.99	6.59 28.87	5.84 29.31	6.15 30.14	6.03 31.15	6.50 32.95	6.55 34.50		ending p lue per s		6.8 37.2
52.91	54.49	54.84	57.12	58.42	59.81	60.08	62.24	62.31	64.19	65.49	65.69	67.18	69.24	71.50	74.95	77.00	78.50	Commo	n Shs Ou	tsť g D	85.0
30.9 1.64	15.0 .90	1	12.7 .81	14.1 .88	19.3 1.23	14.6 .82	17.3 .91	17.6 .89	18.8 .99	23.4 1.18	24.5 1.32	15.0 .80	21.2 1.09	20.2 1.09	20.0 1.16	Value	ures are Line	5	i'l P/E Ra P/E Ratio		20.0 1.1
2.7%	3.4%	4.5%	4.8%	4.5%	4.6%	4.5%	4.0%	4.0%	3.4%	3.1%	2.9%	3.5%	4.0%	4.0%	4.2%		nates 1040	-	i'l Div'd Y	ïeld	3.6%
Total D	ebt \$277	74.5 mill. <b>I</b>	Due in 5 \	Yrs \$30.0		1618.5 111.1	1472.6 114.2	1484.8 118.1	1442.5 137.2	1445.9 126.1	1396.9 136.4	1345.6 197.0	1321.9 129.5	1438.9 147.3	1710.2 155.2	1790 175	1840 190	Net Prof	it (\$mill)		205 25
	I.5 mill.			<b>st</b> \$140.0 ısts; \$42.5		36.0% 8.8%	37.6% 11.1%	36.3%	36.3% 8.1%	36.5% 7.9%	16.0% 7.7%	13.8% 5.5%	5.2% 8.5%	7.5%	15.0% 2.4%	15.0% 5.0%	15.0% 5.0%	Income	Tax Rate % to Net	Profit	15.0% 5.0%
(LT inte	rest earr	ned: 2.2x)		ntals \$10.3	2 mill	51.4% 48.6%	51.0% 49.0%	50.0% 50.0%	51.2% 48.8%	47.2% 52.8%	50.5% 49.5%	49.4% 50.6%	50.4% 49.6%	47.5% 52.5%	50.4% 49.6%	50.5% 49.5%	50.5% 49.5%	Long-Te Commo	rm Debt I		49.5% 50.5%
		s-12/22 \$	540.7 mill			2669.7	3027.3	3060.3	3379.0	3273.2	3580.3	3834.6	4089.8	4104.7	4709.7	5100	5300	Total Ca	pital (\$m		600
Pfd Sto	<b>ck</b> None	9	Ŭ	ung 4007	<i></i>	3202.4 5.4%	3620.0 4.9%	3898.6 5.1%	4147.5 5.3%	4398.8 5.0%	4648.9 4.8%	4797.0 6.2%	4991.6 4.2%	5225.5 4.7%	5444.7 4.6%	5700 5.0%	5950 5.0%	Net Plan Return o	it (\$mill) on Total C	ap'l	640 5.0%
Commo as of 4/		<b>x</b> 75,763,5	513 shs.			8.6% 8.6%	7.7% 7.7%	7.7% 7.7%	8.3% 8.3%	7.3% 7.3%	7.7% 7.7%	10.2% 10.2%	6.4% 6.4%	6.8% 6.8%	6.6% 6.6%	7.5% 7.5%	7.5% 7.5%		on Shr. Ec on Com E		7.5% 7.5%
MARKE	T CAP:	\$2.8 billi				2.9%	2.4%	2.3%	3.0%	1.9%	2.2%	4.9%	.9%	1.4%	1.1%	2.0%	2.0%	Retained	to Com	Eq	2.0%
			2020	2021	2022	66% BUSIN	69% ESS: Av	70%	64% ooration (1	73% formerly	72% The Wa	52%	85% Water	80% 30%: ii	83%	<b>80%</b>	78% wholesale		s to Net I		729 erating
Avg. Indust.	Retail Sales Use (MWH) Revs. per K	Ĵ	-2.4 NA 6.38	+4.3 NA 6.41	+3.1 NA 6.62	Power	Company	y) supplie	es electric es electric	ity & ga	s in east	ern Wasl	nington	sources	: gas &	coal, 31 2 reporte	%; hydro	o, 31%; p	ourch., 3	8%. Fue	l costs
Capacity at Peak Load,	Peak (Mw) Summer (M		NA 1721	NA 1889	NA 1810	of Oreg	gon. Cust	omers: 4	11,000 ele er 7/14. S	ectric, 37	77,000 ga	as. Acq'd	Alaska	1,767 e	mployee	s. Chairn WA. Add	nan: Ścot	t L. Norr	is. Pres.	& CEO:	Denni
Annual Loa % Change (	d Factor (%) Customers ()	/r-end)	NA +1.8	NA +1.4	NA -1.0	sub. 6/	14. Elec	tric rev.	breakdow	n: reside	ential, 38	%; comn	nercial,			.: 509-48					
Fixed Charç			222	216	175				the f nains							rnings <b>next</b>				grov	v bv
of change		10 Yrs	. 5 Yı		26-'28	earr	nings	of \$	<b>2.30</b> a	a sha	are t	his y	ear.	roug	hly 5	% to we an	<b>7%.</b> 1	his is	a tou	ich sl	ower
Revenu "Cash I Earning	Flow"	-2.5 3.0 2.5	% -0.	5% 3	2.5% 3.5% 6.5%	expe	ctatio	ns by	a wi	de m	argin,	whic	h is	line	with	what	leade	ership	is lo	oking	g for
Divider Book V	ds	2.5 4.5 4.0	% 4. % 3.	.0% 4	4.0% 3.5%				commo an be :							nnual ovals					
Cal-		RTERLY RE		(\$ mill.) Dec.31	Full				ington me wit							ly in venue					
endar 2020	390.2	278.6	272.6	380.5	1321.9	its. 7	These	credit	ts will third	be fu	ılly re	turne	d by	sight	. In t	hat v loable.	ein, o				
2021 2022	412.9 462.7	298.2 378.6	296.0 359.4	431.8 509.5	1438.9 1710.2	Afte	r that	, the ı	atility	marg	in wil	l impi	ove,	Člea	n ene	ergy g	goals				
2023 2024	474.6 <b>490</b>	370 380	355 370	590.4 600	1790 1840	but year	incom as a	e tax a per	is sp centag	read re of	preta	ghout ix inc	the			<b>pon.</b> in M					
Cal-	E/	ARNINGS F	PER SHAR	EA	Full	base	d on	the e	estima will	ted a	innua	l effec	ctive			that ak ge					
endar 2020	Mar.31 .72	Jun.30 .26	.07	Dec.31 .85	Year 1.90	quar	terly	earni	ngs in	2023	3. Ma	nagen	nent	produ	uced :	from	non-ei	mittin	g res	ource	s by
2021 2022	.98 .99	.20 .16	.20 d.08	.71 1.05	2.10				5% of ognized							oring ese fr					
2023 2024	.73 .75	.20 .23	.20 .22	1.17 1.25	2.30 2.45	After	r that	, the	distrik arter,	outior	n will	be 59	% in	ture	figuı	re for e \$500	202	3 is	now		
Cal-		TERLY DIV	IDENDS P	AID <sup>B</sup> =	Full	quar	ter, ai	nd 509	% in th	ne fou	rth qu	larter	. All	This	unt	imely	sele	ection	has		
endar 2019	Mar.31 .3875		Sep.30 .3875	Dec.31 .3875	Year 1.55	at \$2	2.27 to	o \$2.4	ed earr 7 per :	share	, and	our fi	gure	poin	t abo	nore ve th	e ave	erage	utilit	ty wi	thin
2019 2020 2021	.405 .4225	.405	.405 .4225	.405 .4225	1.62				he lov is see							r <b>age.</b> is onl					
2021 2022 2023	.4225 .44 .46	.4225 .44 .46	.4225 .44	.4225 .44	1.76	to re	eiterat	e to o	ur suk howing	oscrib	ers to	not f	ocus	stock	's rec	ent pr annin	ice po			ly 21,	
A) Dilute	ed EPS.	Excl. nor	nrec. gain	n (loss): '1	4, <b>(B)</b>	Div'ds pai	id in mid-	Mar Jur	ne. Sept. 8	Dec.	com. ea.	in WA in	21: 9.49	6: in ID in	21: 9.4	%: Co	mpanv's	Financia	l Strena		B++
¢; 17, 117,17	(16¢);	gains on	aiscont.	. ops.: '1	4,  ∎ Di d- Ichos	va reinv	est. plan	avail. (C	) Incl. de 6/sh. (D) l	rerred	n UH in '22∙ 7 1º	21: 9.4%	6; earne	a on avg	. com. e	q., Sto	CK'S Pric	e Stabili h Poreie	ty tonco		75 40

St. 17; 1(56), gains on outsound us to round - chys. In 22: \$911.2 mill., \$12.163/sh. (D) In mill. 122: 7.1%. Regulatory Climate: WA, Below ing. Next earnings report due early August. (E) Rate base: Net orig. cost. Rate allowed on Avg.; ID, Above Avg.
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Stock's Price Stability75Price Growth Persistence40Earnings Predictability65

Raised 6/2/23 Raised 5/1/15 Raised 7/21/23 = Market)	High: Low: LEGEI	37.0 30.3	55.1 36.9	62.1	53.4	64.6			82.0		RELATIV P/E RATI		= 4.0			Townsk	Dulas	
Raised 7/21/23	LEGE			47.1	36.8	44.7	72.0 57.0	68.2 50.5	60.8	87.1 48.1	72.8 58.2	80.9 59.1	74.0 56.8					Rang
		NDS 7.0 x Divide	ends p sh							_						2020	2021	
Market)	Options:	elative Price	e Strength															20 16
,		area indica	ates recess	sion														10
et Price Range																		+10
oint (% to Mid)							ويتنبن		<sup>ես,</sup> ստ		لىرا رىن	սիորոհեր	4. <del>n.</del>					80 60
25%)			بالالال	11111 <sup>111</sup> 1	<u>ц</u> иц <sub>и</sub> .	1,00,000		لىرىكى الم		-1444			11:11 <b>•</b>					+50
DJECTIONS Ann'l Total			11 C		- 4,4													+40
Gain Return	սորհեր	ասվու								•								
65%) 17% 20%) 9%	••••	••••••		······		••••••••••	•••••• <u>.</u>		·······	•					a/ <b>TO</b>			20
ecisions							Ī	•••••			•••.					THIS V	/L ARITH.*	
148 150							. lı	11							1 yr.	-14.1	16.5	E
143 156 59331 57740	traded	10 T					huull				hhhan	ililiaili	ilut		3 yr. 5 yr.	18.2 15.3	58.6 48.6	+
2009 2010	2011	2012	2013	2014	2015			2018	2019	2020	2021	2022	2023	2024	© VALI	JE LINE PI	UB. LLC	26-2
32.58 33.29	28.96	26.55	28.67	31.20	25.48	29.47	31.38	29.24	28.22	27.02	30.11	38.60	38.50	38.40	Revenue	s per sh		39.
5.41 4.88	4.01	5.59	5.93	6.25	5.67	6.28	7.15	6.61	7.02	7.41	7.41	7.85	7.75	8.00				9.2
					1				1									4. 3.
8.90 12.04	10.03	7.90	7.97	8.92	8.90	8.89	6.09	7.62	13.31	12.22	10.47	9.14	2.55 9.30					3. 9.
27.84 28.02	27.53	27.88	29.39	30.80	28.63	30.25	31.92	36.36	38.42	40.79	43.05	45.31	46.75	48.70				55.
38.97 39.27	43.92	44.21	44.50	44.67	51.19	53.38	53.54	60.00	61.48	62.79	64.74	66.10	67.50					71.
	31.1	17.1	18.2	19.0	16.1		19.5			17.0	17.7				-			18
									1									1. 3.7
		7.770											2600	2650	-			28
		5.0 mill.																20
	st \$190.0	mill.	34.7%	33.7%	35.8%	25.1%	28.7%	19.2%	13.0%	12.2%	2.8%	8.5%	8.5%	8.5%		<u>, , , , , , , , , , , , , , , , , , , </u>		8.5
	tals \$2.4	mill.	2.4%	2.4%	2.7%	5.3%	2.7%	1.4%	3.3%	2.5%	2.0%	2.4%	2.5%	2.5%				2.5
																		54.0
		8 4 mill									-							46.( 84
-																	"/	85
66 660 004 shs			5.5%	6.1%	4.9%	4.0%	5.2%	5.0%	4.9%	5.0%	4.5%	5.1%	4.5%	4.5%			ap'l	5.0
00,000,001 010.			8.9%	9.4%	8.8%			8.8%	9.1%	9.1%	8.5%	8.6%	8.0%	8.0%		•	-	8.0
3.8 billion (Mid (	(an)																	8.0
																		2.5 67
2020	2021	2022																-
NA	+1.5 NA	+3.5 NA									19%; w	ind, 11%	; purcha	sed, 35%	6. Fuel (	costs: 38	% of re	vs. '2
(¢) NA	NA NA	NA NA																
1050	1078	1107																
end) +.9	+1.0	+1.0	in '17.	Electric I	rev. breal	down: res	idential,	35%; cc	mmercia	l, 39%;								
285	259	281	Blac	ek Hi	lls st	ock ha	as be	een t	he w	orst								
4.5% 3.	5%	3.5%									"clea	in er	iergy	" Th		mpany	y has	s a
9.5% 5. 4.5% 6.	0%	4.5%	Whil	le ma	ny in	terest-r	ate s	sensit	ive is	sues	decer	nt res	ource	plan	in p	olace,	whic	h i
4.5% 7.	5%	4.0%																
		Full																
		1949.1																
474.2 462.6	791.4	2551.8																
											520 1	negav	vatts	by 20	30. Ot	f this,	50%	wi
		Year	cited	l as t	he_pri	mary	probl	em. (	Jiven	the								
.33 .58	1.23	3.73																
.52 .54 .40 .52	1.10	3.97 3.75	comi	nodity	y/labo	costs	and	highe	er inte	$\mathbf{rest}$	the u	ıtility	has g	gotten	the o	okay t	to exp	
.43 .55	1.15	3.90																
		Full																
		Year																
			prim	arily	has to	file fo	r rate	e relie	ef. In	that								
.535 .535	.505	2.17	vein	, the	com	pany i	recen	tly a	pplied	l to	does	not aj	ppear	to ha	ve fou	ınd eq	quilibi	riur
.595 .595	.625	2.41							c deli	very					hip's r			
.625			-			ied ser to full yea						ony J.		non npany's		Jul	y 21,	202 A
	20%)         9%           20%)         9%           ecisions         402022           402022         102033           148         150           143         156           59331         57740           2009         2010           32.58         33.29           5.41         4.88           2.32         1.66           1.42         1.44           8.90         12.04           27.84         28.02           9.9         18.1           .66         1.15           6.2%         4.8%           TURE as of 3/31           4 mill. Due in 5 Nmill.           mill. LT Interese or gerage: 2.7x)           Nized Annual ren           12/22 \$323.1 mill           C           66,660,004 shs.           38. billion (Mid C           ATING STATIST           Yata         NA           100 Yrs.         5 Yata           9.5%         5.           4.5%         3.           9.5%         5.           4.5%         7.           ERLY REVENUES (           Jun.30         Sep.30 <td>20%)         9%            ecisions         Percent           402022         102023         Percent           148         150         shares           143         156         shares           143         150         shares           143         156         shares           143         156         shares           143         156         shares           12009         2010         2011           32.58         33.29         28.96           5.41         4.88         4.01           2.32         1.66         1.01           1.42         1.44         1.46           8.90         12.04         10.03           27.84         28.02         27.53           38.97         39.27         43.92           9.9         18.1         31.1           .66         1.15         1.95           6.2%         4.8%         4.6%           TURE as of 3/31/23         4         4.6%           12/22&lt;\$323.1</td> mill.         19.0           verage: 2.7x)         11         20.0           12/22<\$323.1	20%)         9%            ecisions         Percent           402022         102023         Percent           148         150         shares           143         156         shares           143         150         shares           143         156         shares           143         156         shares           143         156         shares           12009         2010         2011           32.58         33.29         28.96           5.41         4.88         4.01           2.32         1.66         1.01           1.42         1.44         1.46           8.90         12.04         10.03           27.84         28.02         27.53           38.97         39.27         43.92           9.9         18.1         31.1           .66         1.15         1.95           6.2%         4.8%         4.6%           TURE as of 3/31/23         4         4.6%           12/22<\$323.1	20%)         9%	20%)         9%             402022         102023         Percent         30           148         150         shares         20           143         156         traded         10           2009         2010         2011         2012         2013           32.58         33.29         28.96         26.55         28.67           5.41         4.88         4.01         5.59         5.93           2.32         1.66         1.01         1.97         2.61           1.42         1.44         1.46         1.48         1.52           8.90         12.04         10.03         7.90         7.97           27.84         28.02         27.53         27.88         29.39           38.97         39.27         43.92         44.21         44.50           9.9         18.1         31.1         17.1         182           .66         1.15         1.95         1.09         1.02           .62%         4.8%         4.6%         4.4%         2704.7           2903         36.660,004 shs.         5.5%         3.7%           34.11         NA         <	20%)         9%         Percent shares         30 traded           402022         102023 143         156 shares         30 traded         10           2009         2010         2011         2012         2013         2014           32.58         33.29         28.96         26.55         28.67         31.20           5.41         4.88         4.01         5.59         5.93         6.25           2.32         1.66         1.01         1.97         2.61         2.89           1.42         1.44         1.46         1.48         1.52         1.56           8.90         12.04         10.03         7.90         7.97         8.92           27.84         28.02         27.53         27.88         29.39         30.80           38.97         39.27         43.92         44.21         44.50         44.67           9.9         18.1         31.1         17.1         18.2         19.0           6.6         1.15         1.95         1.09         1.02         1.00           6.2%         4.8%         4.6%         4.4%         32.7%         2.4%           12/22         323.1 mill.         Dulia         34	20%)         9%         -**         Parcent         30           ecisions         402022         102033         Percent         30           143         150         shares         20         -         -           2009         2010         2011         2012         2013         2014         2015           32.58         33.29         28.96         26.55         28.67         31.20         25.48           5.41         4.88         4.01         1.97         2.61         2.89         2.89           1.42         1.44         1.46         1.48         1.52         1.56         1.62           8.90         12.74         28.00         27.53         27.89         28.90         28.90           27.84         28.02         27.53         27.89         3.08         28.63           4.89         4.6%         4.4%         3.2%         2.8%         3.5%           TURE as of 3/31/23         1.02         1.00         .81         15.5         1.00         .81           6.660,004 shs.         5.5%         6.0%         4.4%         5.2%         3.3%           3.666,600,04 shs.         5.5%         5.5%         5	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20%         9%         rade         and           accisions         Percent         30           148         150         shares         20           59331         57740         2011         2012         2013         2014         2015         2016         2017           32.58         33.29         28.96         26.55         5.93         6.25         5.67         6.28         7.13           5.41         4.88         4.01         5.59         3.90         2.83         2.63         3.33           1.42         1.44         1.46         1.48         1.52         1.56         1.62         1.68         1.81           8.90         2.77         2.82         2.63         3.33         5.34         5.33         5.34         5.33         5.34         5.89         5.93         5.89         5.93         5.89         5.93         5.89         5.93         5.93         5.89         5.93         5.89         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93         5.93	00%         9%         00%           0282         10203         Percent         30           148         156         shares         20           148         156         shares         20           2009         2010         2011         2012         2013         2014         2015         2016         2017         2018           2009         2010         2011         2012         2013         2014         2015         2016         2017         2018           212         1.66         1.01         1.97         2.61         2.89         2.83         2.63         3.38         3.47           1.42         1.44         1.44         1.44         1.44         1.44         1.44         1.44         1.66         1.86         1.81         1.93         3.02         2.7.83         2.9.39         30.80         2.86.3         30.25         3.1.92         6.6.00         7.7.89         3.9.1         1.9.5         1.6.8         1.0.9         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1         1.0.1	Q0%         9%         0%         0%           400%         100%         100%         100%         100%         100%           3031         577.40         2011         2012         2013         2014         2015         2016         2017         2018         2019         2018         2017         2018         2019         2018         2017         2018         2019         2018         2019         2010         2011         2012         2018         2015         2016         2017         2018         2024         282         553         625         567         628         7.15         661         7.02         7.21         13.01         13.01         15.05 <t< td=""><td>Quryb         Dyb         Curyb         Dyb         <thdyb< th=""> <thdyb< th=""> <thdyb< th=""></thdyb<></thdyb<></thdyb<></td><td>Utype         Processions           42022         Utype         Percent         30           42033         processions         30           42034         156         Percent         30           435         156         Percent         30           435         156         Percent         30           22009         2010         2011         2012         2013         2014         2015         2019         2020         2021         2011         2012         2013         2014         2015         2013         2012         2011         2012         2013         2012         2013         2012         2013</td><td>Urss         Procent         Percent         P</td><td>UPS:         Parcent standed         Out         Parcent standed         Out         Parcent standed         Out           2009         2010         2011         2011         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2021         2021         2021         2021         2021         2022         2021         2021         2022         2021</td><td>UTM         UTM         <thutm< th=""> <thutm< th=""> <thutm< th=""></thutm<></thutm<></thutm<></td><td>UPS         Parcent         Single         Percent         Percent         Percent         Percent</td><td>UP3         Sec         Sec<td>UP3         Picture         Pi</td></td></t<>	Quryb         Dyb         Curyb         Dyb         Dyb <thdyb< th=""> <thdyb< th=""> <thdyb< th=""></thdyb<></thdyb<></thdyb<>	Utype         Processions           42022         Utype         Percent         30           42033         processions         30           42034         156         Percent         30           435         156         Percent         30           435         156         Percent         30           22009         2010         2011         2012         2013         2014         2015         2019         2020         2021         2011         2012         2013         2014         2015         2013         2012         2011         2012         2013         2012         2013         2012         2013	Urss         Procent         Percent         P	UPS:         Parcent standed         Out         Parcent standed         Out         Parcent standed         Out           2009         2010         2011         2011         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2011         2012         2022         2021         2021         2021         2021         2021         2022         2021         2021         2022         2021	UTM         UTM <thutm< th=""> <thutm< th=""> <thutm< th=""></thutm<></thutm<></thutm<>	UPS         Parcent         Single         Percent         Percent         Percent         Percent	UP3         Sec         Sec <td>UP3         Picture         Pi</td>	UP3         Picture         Pi

(53.54); 16, (51.26); 17, (14¢; 18, \$1.31; 16 rounding. Next egs. report due early Aug. (E) Hate base: Net orig. cost. Hate allowed on '19, (25¢); '20, (8¢); discont. ops.: '08, \$4.12; (B) Div'ds paid in early March, June, Sept., and 'com. eq. in SD in '15: none specified; in CO in '09, 7¢; '11, 23¢; '12, (16¢); '17, (31¢); '18, [Dec. ■ Div'd reinv. plan avail. (C) Incl. deferred '17: 9.37%. Regulatory Climate: Average. (C) 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

Price Growth Persistence40Earnings Predictability95

<u>CEN</u>	ITE	<u>RPO</u>	INT I	<u>EN'R</u>	GY	NYSE-C	NP P	ecent Rice	28.22	P/E RATI	<b>17.</b>	0 (Trailin Media	ng: 24.5) an: 19.0)	RELATIV P/E RATI	<b>1.0</b>	2 DIV'D YLD	2.7		ALUI Line		of
MELIN				High: Low:	21.8 18.1	25.7 19.3	25.8 21.1	23.7 16.0	25.0 16.4	30.5 24.5	29.6 24.8	31.4 24.3	27.5 11.6	28.4 19.3	33.5 25.0	31.5 27.2				Price	Ran ∣202
AFETY		Lowered Lowered			.00 x Divid	lends p sh													2020	2027	64
ECHNI ETA 1.	CAL Z 10 (1.00		9/1/23	Options: \	elative Pric	terest Rate e Strength							-								48
B-Mon	th Targ	et Price	Range	Shaded	area indic	ates recess									ուրուր	ղ հե					-32
ow-Hig		point (%	to Mid)	 	humurt	, 1 <sup>,1</sup> 1,11,11,		н <sub>ин</sub>													+24 20
24-\$42		(15%) OJECTIO	NIC	··· <sup> 1</sup>					1.				11'								+16 +12
			nn'i Total Return	••••	•••	••••••••	••••••••	•.		·····		••••••									$\mathbb{I}_{8}$
	35 (+	⊦25%) -10%)	8% 1%					********			*********	•	•••		·····						6
	tional D	, Decisio	าร											••••••	•				THIS THIS STOCK	IN 7/23 /L ARITH.*	
Buy Sell	402022 330 232	102023 269 269	202023 257 272	Percent shares	20 -			վերկի		1	ulli. Iu			ullul.		1.		1 yr. 3 yr.	-2.7 70.9	11.5 59.2	F
d's(000)	574926	567918	562002	traded	10 -	φ											0004	5 yr.	22.3	52.2	
<b>)07</b> 9.82	2008 32.71	2009 21.14	2010 20.69	<b>2011</b> 19.83	2012 17.43	2013 18.90	2014 21.51	2015 17.18	2016 17.48	2017 22.30	2018 21.13	2019 24.49	2020 13.45	2021 13.28	<b>2022</b> 14.81	2023 14.75	2024 15.05		JE LINE P s per sh	UB. LLC	26-2 16
3.39	3.42	2.94	3.14	3.43	3.89	3.54	3.85	3.40	3.68	4.03	3.24	4.12	3.46	3.00	3.65	3.80	4.05	"Cash F	ow" per :		4
1.17	1.30 .73	1.01 .76	1.07 .78	1.27 .79	1.35 .81	1.24 .83	1.42 .95	1.08	1.00	1.57 1.35	.74 1.12	1.49 .86	1.29 .90	.94	1.59 .72	1.65 .77	1.75 .83	Earnings Div'd De			
3.45	2.95	2.96	3.55	3.06	2.84	3.00	3.20	3.68	3.28	3.31	3.29	4.99	4.71	5.03	7.02	6.65	7.05	Cap'l Sp	ending p	er sh	
5.61 2.72	5.89 346.09	6.74 391.75	7.53 424.70	9.91 426.03	10.06 427.44	10.09 429.00	10.60 429.00	8.05 430.00	8.03 430.68	10.88 431.04	12.53 501.20	13.10 502.24	10.78 551.36	13.70 628.92	14.68 629.54	16.85 631.20	17.70 632.00	Book Va Commor	lue per si n Shs Out		1: 63
15.0	11.3	11.8	13.8	14.6	14.8	18.7	17.0	18.1	21.9	17.9	37.0	19.5	15.9	26.1	18.7	Bold fig Value		•	I P/E Rat		
.80 .9%	.68. 5.0%	.79 6.4%	.88 5.3%	.92 4.3%	.94 4.0%	1.05 3.6%	.89 3.9%	.91 5.1%	1.15 4.7%	.90 4.8%	2.00 4.1%	1.04 3.0%	.82 4.4%	1.41 2.7%	1.08 2.4%	estin	-		P/E Ratic 'I Div'd Y		3
			s of 6/30			8106.0	9226.0	7386.0		9614.0	10589	12301	7418.0	8352.0	9321.0	9300	9500	Revenue	· · /		10
Debt	\$16032	mill. L	T Interes	<b>/rs</b> \$6698 st \$600 m	ill.	536.0 31.4%	611.0 31.0%	465.0 35.1%	432.0 37.0%	679.0 36.1%	368.0 28.4%	871.0 14.9%	863.0 13.4%	668.0 14.1%	1057.0 25.4%	<u>1100</u> 20.0%	1160 20.0%	Net Prof	<u>, , , , , , , , , , , , , , , , , , , </u>		1 20
	'0 mill. se on bonds		transitior	n & syster	m	3.5%	4.1%	4.7%	3.5%	2.9%	5.4%	6.7%	6.0%	9.3%	6.0%	5.0%	5.0%	AFUDC 9	6 to Net F		5
		ed: 2.4x) talized A	nnual ren	tals \$5 m	ill	64.4% 35.6%	63.8% 36.2%	69.5% 30.5%	68.5% 31.5%	63.6% 36.4%	51.9% 37.5%	63.0% 29.1%	58.0% 29.9%	62.3% 34.5%	59.6% 37.1%	60.0% 37.0%	55.0% 42.0%	Long-Ter Commor			53 44
			1212 mill.			12146	12557	11362	10992	12883	16740	22603	19869	24973	24878	26000	26500	Total Ca	pital (\$mi		28
	ck \$790		Pfd Div'd	\$49 mill.		9593.0 6.3%	10502 6.7%	11537 6.1%	12307 5.8%	13057 6.8%	14044 3.4%	20945 5.1%	22362 5.6%	23484 3.8%	27143 5.3%	30000 5.5%	33000 5.5%	Net Plan Return o		an'i	4( 5
ue of	\$800.			with liquid		12.4%	13.4%	13.4%	12.5%	14.5%	4.6%	10.4%	10.3%	7.1%	10.5%	9.5%	9.5%	Return o	n Shr. Eq	uity	10
			,089 shs. I <b>ion (Lar</b> g	as of 7/1 ge Cap)	9/23	12.4% 4.2%	13.4% 4.5%	13.4%	12.5% NMF	14.5% 4.7%	5.3% NMF	11.5% 2.7%	11.6% 5.0%	6.7%	10.9% 6.1%	10.0% 5.5%	10.0% 5.5%	Return o Retained			10 5
ECTF	RIC OPE	RATING	STATIST			66%	67%	92%	103%	68%	NMF	80%	66%	72%	46%	49%	49%	All Div'd			
hange R	letail Sales (I Use (MWH)	KWH)	<b>2020</b> +6.7	+1.8	<b>2022</b> +2.0				t Energy, serves 2.						1 and 22 3% of rev						
Indust.	Revs. per KN Peak (Mw)	WH (¢)	NA NA NA	NA NA NA	NA NA NA	and en	virons, I	ndiana E	lectric, wh	nich ser	ves 151,	000 cust	omers,	ployees	Chairma	an: Marti	n H. Nes	sbitt. Pre	sident &	CEO: D	Davi
( Lóad, S	Summer (Mw I Factor (%)	1)	NA NA	NA NA	NA NA	Louisia	na, Miss	issippi, lı	27 million Idiana, an	d Ohio.	Acquire	d Vectrer	n 2/19.		ncorporations a						
	Customers (a	vg.)	+7.9	+2.5	+2.0		-		s in '20. S			-	<b>a</b> .		ww.cente					41	_
	e Cov. (%) L RATES	C Deat	152	135 st Est'd	252	_	terPo e-per		Energ result		oostee Fhe	<b>1 so</b> : top	<b>fter</b> line	thire tegy.	l yea: The	<b>r oi</b> plan	a 10- seen	-year	be p	vtn s rocee	str dii
hange	e (per sh)	10 Yrs.	5 Yr	s. to'	20-22 26-'28 5%				year o com lin						y. Ma crease						
venu ash F rning	low"	-3.5 5 .5	% -2.0	0% 4	5% 4.0% 6.5%	the	year-	ago t	ally, t	o \$0	.17 p	oer sk	nare	budg	et, br	ingin	g the	total	to \$	64 bil	lic
iden ok Va	ds	5 3.5	% -7.	5% 2	2.5% 6.0%				mpany the di						expan 0-year						
ıl-			VENUES (		Full	Šyste	ems (	Froup	in the	qua	rter. 7	This n	iove	\$43 k	oillíon.	. Ťhe	extra	fundi	ng wi	ll be	al
	Mar.31 2167	Jun. 30 1575	Sep. 30 1622	Dec. 31 2054	<b>Year</b> 7418				plan to compa						towa ean e						
21	2547	1742	1749	2314	8352				nt nov operati						ms. N it has						
22 23	2763 2779	1944 1875	1903 <b>2150</b>	2711 <b>2496</b>	9321 <b>9300</b>	er in	terest	t rates	s, ongo	ing i	nflatio	onary	$\hat{cost}$	of or	portu	nities	, whi	ch wi	ll pro	obably	y
24	2800	1900	2200	2600	9500				l weat s overa				fur-		to stro rehicle						
al- dar			ER SHARE Sep. 30		Full Year	We	have	mai	ntain	ed_o	ur 2	023		mode	rnizat	ion p	roject	s. Une	ler th	e cur	re
20	.56	.17	.29	.27	1.29				nare-p 5, res						th stra ll not						
21 22	.41 .82	.29 .28	.21 .30	.03 .19	.94 1.59	are	expec	ted to	oˈstay	hea	lthy	thank	s to	throu	igh 20	)30, a	althou	ıgh th	ne sha	are c	ōu
23 24	.49 <b>.50</b>	.17 <b>.30</b>	.50 .50	.49 .45	1.65 1.75				invest eployed						t rise ns and					issue	u 1
al-			IDENDS P		Full	tal o	luring	g the	secon	d qu	arter.	Utili	ities	Shar	es of	Cen	terPo	oint a	re ra		
dar	Mar.31		Sep.30		Year				profits o cust						or th he y						
	.2875	.2875	.2875	.2875	1.15																
19 20	.29	.15	.15	.15	.74							d man		coni+	al	g inte	notor	nate-	and	direi.	do-
)19 )20 )21 )22	.29 .16 .17	.15 .16 .17	.15 .16 .18	.15 .17 .18	.74 .65 .70	ment tenu	t expe re of t	enses i the gr	uce op 1%-2% owth p <b>npany</b>	annı lan.	ally o	luring	the	capit yield	al up is on <i>a Jale</i>	side the lo	poter	ntial. ide foi	The	divio ties.	der

(A) GAAP Dil. EPS 2022 & onwards. Excl. nonrecur. gains (losses): '11, \$1.89; '12, (38¢); '13, (52¢); '15, (\$2.69); '17, \$2.56; '20, (\$2.74); gain (loss) on disc. ops.: '20, (34¢); '21, \$1.34. Next (loss) on

 Company's Financial Strength
 B++

 Stock's Price Stability
 75

 Price Growth Persistence
 35

 Earnings Predictability
 55

<u>CW</u>	<u>s en</u>	VER(	<u>GY C</u>	ORF	<b>N</b> YS	E-CMS	R	ecent Rice	56.81	P/E Rati	o <b>18</b> .(	) (Trailir Media	ng: 22.7 an: 21.0)	RELATIVE P/E RATIO	5 <b>1.0</b>	<b>8</b> DIV'D YLD	3.4		ALU Line		of
	-	Raised 8		High: Low:	25.0 21.1	30.0 24.6	36.9 26.0	38.7 31.2	46.3 35.0	50.8 41.1	53.8 40.5	65.3 48.0	69.2 46.0	65.8 53.2	73.8 52.4	65.7 55.9				Price	
AFETY ECHNI		Raised 3 Raised 7		LEGE1	3.00 x Divi	dends p sh															16
	0 (1.00 =		/20/23	Options:	Yes	terest Rate se Strength															12 10
		jet Price	•	Shaded	area indic	ates recess	lion								du.o						
ow-Hig 2-\$91		point (%	to Mid)								1 <sub>11</sub> 111''''''	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,1 <sup>11</sup> 11 <sup>1</sup> 111	ייויייייייייייייייייייייייייייייייייי	<u></u>					
		(25%)	ONS					ال <sub>الالبل</sub> ار	, <sup>,,,,,1'</sup> ''''''''''''''''''''''''''''''		'I'''										40 
			nn'l Total Return																		
gh w	75 (· 55	+30%) (-5%)	10% 3%					Pa	••••••	,**********		····	• •••••		~******			e/ TO-		N 7/00	1
stitut	ional [ 402022	Decisio 102023	ns 202023	******	•••	••••	••• <sup>•••</sup> ••	••••••			•••••			•••••••		••••••			T. RETUF	IN 7/23 /L ARITH.* INDEX	
Buy Sell	339 264	303 252	202023 297 262	Percent shares	20 +		եւևու		Illuur	1.111	illini.tu	http://			1	uli		1 yr. 3 yr.	-8.4 3.7	11.5 59.2	F
l's(000) 2		274530 2009		traded 2011	10 - <b>2012</b>	2013	2014			2017			2020	2021	2022	2023	2024	5 yr.	44.6 Je line P	52.2	26-2
8.95	30.13	27.23	25.77	25.59	23.90	24.68	26.09	23.29	2010 /	23.37	24.25	24.11	23.12	25.29	29.51	2023	30.15			UD. LLC	31
3.08	3.88	3.47	3.70	3.65	3.82	4.06	4.22	4.59	4.88	5.29	5.61	5.89	6.24	6.42	6.69	7.15	7.70		ow" per		8
.64 .20	1.23 .36	.93 .50	1.33 .66	1.45 .84	1.53	1.66 1.02	1.74 1.08	1.89	1.98 1.24	2.17 1.33	2.32 1.43	2.39 1.53	2.64 1.63	2.58 1.74	2.84 1.84	3.05 1.95	3.30 2.04	Earnings Div'd De			3
5.61	3.50	3.59	3.29	3.47	4.65	4.98	5.73	5.64	5.99	5.91	7.32	7.41	8.02	7.16	8.15	8.00		Cap'l Sp	ending p	er sh	9
9.46 5.15	10.88 226.41	11.42 227.89	11.19 249.60	11.92 254.10	12.09 264.10	12.98 266.10	13.34 275.20	14.21 277.16	15.23 279.21	15.77 281.65	16.78 283.37	17.68 283.86	19.02 288.94	22.11 289.76	23.32 291.27	25.40 292.00	31.30 295.00	Book Va Commor			31 300
26.8	10.9	13.6	12.5	13.6	15.1	16.3	17.3	18.3	20.9	21.3	20.3	24.3	23.3	23.6	22.9	Bold fig	ures are	Avg Ann	'l P/E Rat	io	1
1.42 .2%	.66 2.7%	.91 4.0%	.80 4.0%	.85 4.3%	.96 4.2%	.92 3.8%	.91 3.6%	.92 3.4%	1.10 3.0%	1.07 2.9%	1.10 3.0%	1.29 2.6%	1.20 2.6%	1.28 2.9%	1.32 2.8%	estin	Line nates		P/E Ratio 'I Div'd Y		3.
PITA	L STRU	CTURE a	as of 6/30	/23		6566.0	7179.0	6456.0		6583.0	6873.0	6845.0	6680.0	7329.0	8596.0	8550	8900	Revenue			9
	bt \$150 \$13925		کا Due in 5 T Interes.			454.0 39.9%	479.0 34.3%	525.0	553.0 33.1%	610.0	659.0	682.0 17.7%	757.0 15.0%	751.0	833.0 10.3%	900 15.0%	980 15.0%	Net Prof			1 15.
. \$68	mill. fin	ance leas ed: 2.4x)				2.0%	2.3%	34.0% 2.7%	3.1%	31.2% 1.1%	14.9% 1.4%	2.1%	15.0%	1.5%	10.3%	2.0%	2.0%	AFUDC 9		Profit	15.
ises,	Uncapi	talized Á	nnual ren		nill.	67.5%	68.7%	68.3%		67.3%	69.0%	70.4%	71.2%	64.5%	65.3%	61.5%	61.5%	-	m Debt F		60.
ision	Assets	5-12/22 \$3	3599 mill.	Oblig \$3	070 mill.	32.2%	31.0% 11846	31.4%	32.6% 13040	32.4% 13692	30.7% 15476	29.4% 17082	28.6% 19223	34.2% 18760	33.6% 20205	36.5% 22725	36.5% 23900	Commor Total Ca			39. 24
	<b>k</b> \$224 .148 sh		<b>Pfd Div'd</b> 5100 par,			12246	13412	14705	15715	16761	18126	18926	21039	22352	22713	23850	25350	Net Plan	t (\$mill)		28
0.00;	9,200,0	000 shs. 4	1.2%, \$25 6,672 shs.	par, cum		6.0% 13.0%	5.7% 12.9%	5.7%	5.8% 12.9%	5.9% 13.6%	5.6% 13.8%	5.3% 13.5%	5.2% 13.7%	5.3% 11.3%	5.4% 11.9%	5.0% 10.0%	5.0% 10.5%	Return o Return o			6. 11.
of 7/1	0/23					13.1%	13.0%	13.3%	13.0%	13.7%	13.8%	13.6%	13.7%	11.6%	12.1%	10.0%	10.5%	Return o	n Com E	quity E	12
			lion (Laro STATIST			5.2% 60%	5.0% 62%	5.2% 61%	4.8% 63%	5.2% 62%	5.3% 62%	4.9% 64%	5.3% 62%	3.8% 68%	4.3% 65%	3.5% 64%	4.0% 62%	Retained All Div'd			4
	etail Sales (		2020 -3.1	2021 +2.4	<b>2022</b> +3.0				gy Corpora									enewables			-
Indust. I	Use (MWH) Revs. per K		NA 8.14	NA 8.46	NA 8.78				ich supplie oit). Has 1									depreciat 0 full-time			
acity at P	Peak (Mw) Summer (Mv	1-7	NA 8215	NA 7951	NA 8061	custom	ers. Has	1,836 m	egawatts o	of nonre	gulated g	enerating	capa-	John Ğ.	Russell.	Presider	nt & CEC	): Garrick	Rochow	. Inc.: M	ichig
ial Load	Factor (%) ustomers (y	/	NA +1.0	NA +1.0	NA +1.0				1. Electric industrial									son, Mich energy.co		201. Tele	epho
	e Cov. (%)		240	223	226				subsi				-					nues		pand	ł i
		S Past		st Est'd	1 '20-'22	Ene	rgy,	plans	s to dams.	sell	some	e of	its					<b>ve co</b> s goal			
veñu	(per sh) es		% 2.	5%	' <b>26-'28</b> 4.0%				3 hydro									infras			
ning		5.5 6.5	% 6.	5% ( 0% (	6.0% 6.5% 6.0%				d free ite gen									from st \$6.			
ideno ok Va		8.0 6.0	% 7. % 7.	0% 5%	6.0% 7.0%	of th	ne tota	al ele	ctricity	cons	sumed	, the	$\operatorname{cost}$	netwo	orks,	\$6.1	billion	ı in el	lectric	dist	rib
ıl-			VENUES (		Full				these an othe									in cle xpecte			
lar 20	Mar.31 1864	Jun.30 1443	Sep.30 1575	1798	Year 6680	tion.	After	the	utility	comp	bany s	ells tl	hese	rate l	base a	at 7%	annu	ally aı	nd she	ould a	allo
21	2013	1558	1725	2033	7329	asset	ts, it ace ol	will li d asse	kely in ts or b	vest	the p	roceed nfrast	ls to					e affor ty con			
22	2374 2284	1920 1555	2024 <b>2150</b>	2278 <b>2561</b>	8596 <b>8550</b>	tures	5.							are	incen	tivize	d to	inve	est in	ı ca	pit
24	2335	2100	2200	2265	8900				e nev subsid						cts. E favora		we	view	the ir	ivesti	ne
ıl- lar			ER SHARI Sep.30		Full Year	com	pany	. Cor	nsumer	s Ě	nergy	filed	l a	Shar	es of	CMS		ergy a			
20	.85	.48	.76	.55	2.64				ement illion,									r man Also,			
21 22	1.09 1.20	.55 .50	.54 .56	.40 .58	2.58 2.84	turn	on	equity	(ROE	l), ef	fective	e Octo	ober	below	v-aver	age c	apital	appr	eciati	on po	otei
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			IDENDS P		Full	Com	missi	on (N	(PSC)	seek	ing a	n eleo	ctric	stable	e ope	eratin	g pei	rforma	ince	and	co
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all'd on com. eq. in '22: 9.9% elec.; in '19: 9.9% gas; earned on avg. com. eq., '21: 13.2%. Regulatory Climate: Above Average.

•	September	0, 2020
Ι	Company's Financial Strength	А
	Stock's Price Stability	95
	Price Growth Persistence	90
	Earnings Predictability	90

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3.23 49.62	1	45.69	44.17	41.62	42.27	44.11	42.85	39.59	38.82	38.44	37.80	35.78	38.63	44.15	46.40	47.85	Revenue			5
5.77         5.99           3.48         3.36	1	6.24 3.47	6.61 3.57	7.15 3.86	7.45 3.93	7.30 3.62	7.93 4.05	7.89 3.94	8.41 4.10	8.92 4.55	9.39 4.37	9.70 4.17	10.06 4.38	10.36 4.55	11.45 4.90	12.05 5.20		low" per s s per sh <sup>A</sup>		14
2.32 2.34		2.38	2.40	2.42	2.46	2.52	2.60	2.68	2.76	2.86	2.96	3.06	3.10	3.16	3.24	3.34		cl'd per s		
7.09 8.50	1	6.96	6.72	7.06	8.67	8.26	10.42	12.07	11.11	10.90	10.48	11.42	11.17	11.74	15.80	14.50		ending pe		1
2.58         35.43           2.02         273.72		37.93 291.62	39.05 292.89	40.53 292.87	41.81 292.87	42.94 292.88	44.55 293.00	46.88 305.00	49.74 310.00	52.11 320.96	54.18 332.63	55.06 342.30	56.60 353.98	58.28 354.96	58.75 345.00	60.65 345.00		lue per sh n Shs Out		6 34
3.8 12.3	1	13.3	15.1	15.4	14.7	15.9	15.6	18.8	19.8	17.1	19.7	19.0	17.2	20.3	Bold fig		Avg Ann	'l P/E Rat	io	
.73 .74 8% 5.7%		.85 5.2%	.95 4.5%	.98 4.1%	.83 4.3%	.84 4.4%	.79 4.1%	.99 3.6%	1.00 3.4%	.92 3.7%	1.05 3.4%	.98 3.9%	.93 4.1%	1.18 3.4%	Value estim			P/E Ratio 'I Div'd Yi		3
PITAL STRU				4.170	12381	12919	12554	12075	12033	12337	12574	12246	13676	15670	16000	16500	Revenue			18
al Debt \$217 Debt \$20645	706 mill. <b>D</b>	Due in 5 Y			1157.0	1066.0	1193.0	1189.0	1266.0	1424.0	1438.0	1399.0	1528.0	1620.0	1720	1805	Net Profi	it (\$mill)		2
tal Interest Co			μ φ907 III		31.8% .5%	34.0% .3%	33.6% .7%	35.3% 1.3%	36.6% 1.5%	20.1% 1.5%	17.5% 1.9%	12.9% 2.2%	16.2% 2.1%	15.4% 3.4%	18.0% 4.0%	18.0% 4.0%	Income 1	Fax Rate % to Net F	Profit	18 4
ses, Uncapi	italized Ar	nnual ren	ıtals \$64 r	mill.	46.1%	48.0%	47.9%		48.9%	51.1%	50.7%	52.0%	53.0%	49.3%	48.5%	48.0%		rm Debt F		51
ision Assets				1	53.9%	52.0%	52.1%		51.1%	48.9%	49.3%	48.0%	47.0%	50.7%	51.5%		Common			49
			n. Iblig \$121	13 mill.	22735 28436	24207 29827	25058 32209		30149 37600	34221 41749	36549 43889	39229 46555	42641 48596	40834 46766	39425 50000	40075 52650	Net Plan	pital (\$mi t (\$mill)	11)	47 60
Stock None	Ð			1	6.4%	5.6%	6.0%	5.3%	5.4%	5.3%	5.1%	4.7%	4.7%	5.2%	5.5%	5.5%		n Total C	ap'l	5
nmon Stock of 4/30/23	<b>k</b> 346,540,	200 shs.			9.4% 9.4%	8.5% 8.5%	9.1% 9.1%	8.3% 8.3%	8.2% 8.2%	8.5% 8.5%	8.0% 8.0%	7.4% 7.4%	7.6% 7.6%	7.8% 7.8%	8.5% 8.5%		Return o Return o		-	9 9
RKET CAP:	\$32.9 bill	ion (Larç	ge Cap)	1	9.4 /% 3.6%	2.6%	3.5%	3.0%	3.0%	3.5%	2.9%	2.2%	2.5%	2.6%	3.0%		Retained			3
CONY ELEC	TRIC OPI				62%	69%	61%	64%	63%	59%	64%	70%	67%	67%	66%	64%	All Div'd	s to Net P	Prof	
ange Electric Sales		<b>2020</b> -6.5	<b>2021</b> 5	<b>2022</b> 3.3				d Edison, li							rtfolio of					
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'13, d32c; '14, 9c; '16, 18c; '17, 84c; '18, d13c; '19, d29c; '20, d89c; '21, d53c; '22, 11c; 1Q
 (B) Div'ds paid in mid-Mar., June, Sept., and 'Dec. 

 Div'ds paid in mid-Mar., June, Sept., and 'Dec. 
 Div'ds paid in mid-Mar., June, Sept., and 'Dec. 
 Div'ds paid in mid-Mar., June, Sept., and 'Dec.

 Div'ds paid in mid-Mar., June, Sept., and 'Dec.

 Div'ds paid in mid-Mar., June, Sept., and '22; 92.92. Regulatory Climate: Below Average.
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Company's Financial	Strength	A+
Stock's Price Stability	-	90
Price Growth Persiste	nce	55
Earnings Predictability	y	100

UHRUL A         Description         Description <thdescription< th=""> <thdescription< th=""> <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Cause</th><th>0</th><th></th></th<></thdescription<></thdescription<>																			Cause	0	
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Rude Junder fully laber during hange Okames (real)NA NA NANA NA NANA NA NANA NA NAAll Laber fact (N) hange Okames (real)268233264Address: One Energy Plaza, Deriot, Michigan 48226-1279. J revenue breakdown: residential, 50%; commercial, 33%; industrial, storme residential, 50%; commercial, 33%; industrial,	apacity at	Peak (Mw)	. ,	NA	NA	NA															
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224457545504850452518500\$11 billion in the grid over the next ten years. The investments will not only en- hance tree trimming, maintenance and in- frastructure, and accelerate the full auto- frastructure, and accelerate the full auto- mation of the electric grid, which will reduce the duration of outages, but also improve customer affordability and pro- vide over \$2.5 billion in future cost sav- ings. The utility plans to fully automate the grid within five to six years.remains untouched at \$6.70 per share. This issue was recently downgrade one notch on our Timeliness Rankin System to 5 (Lowest). Too, the stock h continued to move sideways of late. T price is near where it was in early Jun and it is down more than 20% over the past 12 months. On the other hand, co servative income-oriented investors ma- be attracted to the dividend yield of 3.6 which is in line with the industry average to Act will likely continue to benefit op- erating performance over the next few years. Indeed, DTE Electric and DTE GasStall224.855.885.885.885.825	2022 2023						sche	dule.	DTE	now p	olans	to ir	vest	over	chani	isms.	Our	2024	bottom-line	esti	ma
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	2022 2023				C00.	3.54											. Hodg	kinso	n Septemb	er 8,	20
					s (loss): 'C	)7, ings														h	g

gains (losses) on discontinued operations: '07, plan available. (C) Incl. intarg. In '22:
 \$1.20; '08, 13¢; '12, (33¢); '21, 57¢. Next earn \$29.20/sh. (D) In mill. (E) Rate base: Net orig.
 Above Average.

Price Growth Persistence Earnings Predictability 70 65

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gh 1	35 (-	Gain +45%)	Return 13%						•		····••	•••••	••••	•• <u>.</u> .		•					_2
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.85	1.04	.89	.81	.87	1.11	.98	.94	.92	1.12	1.00	.92	.94	.88	1.02	1.14	Value	Line	5	P/E Ratio		
.4%	5.2%	6.2%	5.7%	5.2%	4.7%	4.4%	4.3%	4.3%	4.3%	4.2%	4.5%	4.2%	4.4%	3.9%	3.9%	estin		-	'l Div'd Y	ield	3.
		CTURE a 37 mill. E			36 mill.	24598 2813.0	23925 2934.0	23459 2854.0	22743 2560.0	23565 2963.0	24521 3339.0	25079 3747.0	23868 3878.0	25097 4133.0	28768 4104.1	28750 4350	29500 4620	Revenue Net Prof	. ,		31. 5
	\$69107 5 mill_fi	mill. L	T Interes	st \$2206	mill.	32.6%	30.6%	32.2%		30.4%	14.1%	12.7%	.3%	5.1%	7.4%	9.0%	9.0%	Income	<u>, , , , , , , , , , , , , , , , , , , </u>		9.
inte	rest earn	ed: 2.7x)				8.8% 48.0%	7.2%	9.2% 48.6%		12.3% 54.0%	11.4% 53.8%	8.0% 54.0%	6.9% 53.7%	5.9% 55.1%	8.0% 56.5%	7.0% 58.5%	7.0%		% to Net F rm Debt F		7. 61.
		talized A 5-12/21 \$9		itals \$225	o mill.	40.0 % 52.0%	52.3%	51.4%		46.0%	46.2%	44.1%	44.4%	43.1%	42.0%	40.0%	40.0%	-	n Equity F		37.
l Sto	ck \$1962	2 mill. <b>F</b>		<b>Oblig</b> \$82 \$107 mil		79482	78088	77222	86609	90774	94940	101807	103589	109744	115150	124525	124525		pital (\$mi	II)	144
mill.	shs. 5.75	5%, cum., 25.50 prio	\$25 liq. v	value,		69490 4.6%	70046	75709 4.8%	82520 4.0%	86391 4.3%	91694 4.6%	102127 4.7%	106782 4.8%	111408 4.8%	111748 4.5%	124375 4.5%	124375 4.5%	Net Plan Return o	n Total C	ap'l	141
75%	cum., \$	1000 liq.	value.			6.8%	7.2%	7.2%	6.2%	7.1%	7.6%	8.0%	8.1%	8.4%	8.5%	9.0%	9.0%	Return o	on Shr. Eq	uity	9.
		770,651 \$ <b>72.1 bil</b>			80/23	6.8% 1.5%	7.2%	7.2%	6.2%	7.1% 1.2%	7.6%	8.3%	8.2% 2.3%	8.5% 1.9%	8.5% 2.5%	9.0% 2.5%	9.0% 2.5%		n Com Eo		9. 3.
ЕСТІ	RIC OPE	RATING				78%	76%	79%	91%	83%	74%	71%	73%	78%	76%	73%	73%		s to Net F		6
	Retail Sales (I	KWH)	<b>2020</b> -2.3	<b>2021</b> +2.0	2022 NA				y Corporat ustomers ir									%; indus clear, 30°			
Indust.	Use (MWH) Revs. per Kl	WH (¢)	NA NA	NA NA	NA NA	1.6 mil	l. gas cu	stomers	in OH, KY	′, NĆ, \$	SC, and	TN. Owr	ns inde-	purchas	ed, 19%.	Fuel cos	sts: 28%	of revs. '	22 report	ed depr	ec. ra
k Lóad,	Peak (Ŵw) Summer (Mv	v)	NA NA	NA NA	NA NA				a has 25% gress Ener									airman, P South Ti			
hange (	l Factor (%) Customers (a	vg.)	NA NA	NA	NA NA				st int'l ops									nternet: v			
d Charg	e Cov. (%)		183	209	285			00	s botto penefit	-								ucky, We e			
	L RATE: (per sh)	S Past 10 Yrs.		st Est'd ′s. to	1 '20-'22 '26-'28				is yea					year	2024	l bot	tom-li	ne o	f \$6.	00, :	rigl
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rning viden	S	3.0 3.0	% 4.	5% 5%	5.0% 2.0%	men	t with	the l	North (	Carol	ina Pi	ublic \$	Staff	The	comp	any :		eused			
ok V	alue	2.0		0%	2.5%				mer rat									ue. T with			
al- dar	QUAR Mar.31	TERLY RE Jun.30	VENUES ( Sep.30		Full Year	perm	nanen	t rate	es are	expe	cted	to be	$\mathbf{put}$	paym	ient. '	Гĥe h	ike to	o the	annua	alized	l di
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21 22	6150 7132	5758 6685	6951 7968	6238 6983	25097 28768	(17.8	3%) h	ike, i	as the	rate	e cas	e hea	ring	Mear	nwhile	, the	grow	th rat	e is v	vell b	oelo
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24		6850 RNINGS F			Full	tuck	y sine	ce its	last	rate	case.	Adju	sted	Thes	e sha	res h		dropp			
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al- dar	1.14 1.26	1.08 1.15	1.87 1.88	1.03 .94	5.12 5.24	Our	2023	full-	year e	stima	ate re	main	s at	15%	over t	he pa	st $12$	mont	hs. Sti	ill, D	uke
al- dar 20		1.14	1.78	1.11	5.27				as we te relie									pprec			
al- dar 20 21 22	1.30		2.05	1.30 1.30	5.65 6.00	volu	me gr	owth.	Manag	geme	nt rea	affirm	ed a	curre	nt qu	otatio	on is	alread	ly tra	ding	nea
al- dar 20 21 22 23		1.10 1.30	2.05				o of s	\$5 55	to \$5.	75, a							our 20	26-20	28 Ta	rget l	
al- dar 20 21 22 23 24 al-	1.30 1.20 <i>1.35</i> QUAR	1.30 Terly Div	IDENDS P	AID <sup>B</sup> =	Full					of 50	6 to 70	% thr	ange		<u>`o ot "</u>	$s_1 n n q$	\$125	$Th_{\Lambda}$			hor
al- dar 20 21 22 23 24 al- dar	1.30 1.20 <i>1.35</i> QUAR <sup>-</sup> Mar.31	1.30 TERLY DIV Jun.30	IDENDS P Sep.30	AID <sup>B</sup> ■ Dec.31	Year		ings g		n rate o	of 5%	b to 79	% thre	ough					The e in o	quity	ĥas	
al- dar )20 )21 )22 )23 )23 )24 )24 dar )19 )20	1.30 1.20 <b>1.35</b> QUAR Mar.31 .9275 .945	1.30 TERLY DIV Jun.30 .9275 .945	IDENDS P/ Sep.30 .945 .965	AID <sup>B</sup> ■ Dec.31 .945 .965	Year 3.75 3.82	earn 2027 <b>We l</b>	ings g .ook f	growtł <b>Cor an</b>	n rate o nother	year	r of se	olid p	orof-	upgra ranki	aded ing sy	one ystem	notch to 3	in o B (Ave	equity our T erage).	has Imeli Inc	ines ome
al- dar )20 )21 )22 )23 )24 al- dar	1.30 1.20 <b>1.35</b> QUAR Mar.31 .9275	1.30 TERLY DIV Jun.30 .9275	IDENDS PA Sep.30 .945	AID <sup>B</sup> ■ Dec.31 .945	Year 3.75	earn 2027 We l it gr	ings g ook f owth	growth Cor an in 20	n rate o	<b>yea</b> ite re	r of so elief a	<b>olid p</b> nd vol	orof- ume	upgra ranki orien	aded ing sy	one ystem nvesto	notch to 3 ors m	in o 8 (Ave ay be	equity our T erage).	has Imeli Inc	ines ome

(A) Dii. EPS. Excl. net nonrec. losses: 12, 54c;
 (A) Dii. EPS. excl. net nonrec.
 (A) Dii. EPS. excl. net nonrec.
 (B) Divids paid mid.Mar., June, Sept., & Dec.
 (C) Incl. intang. In '22:
 (C) Incl. intang. In '21:
 (C) Incl. intang. In '22:
 (C) Incl. intang. In '21:
 (C) Incl. intang. In '21:
 (C) Incl. intang. In '22:
 (C) Incl. intang. In '21:
 (C) Incl. intang. In '21:</l

Company's Financial StrengthAStock's Price Stability95Price Growth Persistence45Earnings Predictability100

FDI	SON	I INT	ERN	ΙΔΤΊ	NVC	F_EIV	F	ecent Rice	68.31	P/E RATI	o <b>14</b> .	4 (Traili Medi	ng: 27.5) an: 20.0)	RELATIV P/E RATI	E <b>0.8</b>	3 DIV'D	4.5	5%	/ALU		of 22
		Lowered		High: Low:	48.0 39.6	54.2	68.7 44.7	69.6 55.2	78.7 58.0	83.4 62.7	71.0	76.4	78.9 43.6	68.6 53.9	73.3 54.4	74.9			Targe	t Price	
AFETY	-			LEGEI	NDS 7.8 x Divide	ends p sh	,	00.2	50.0	02.7	40.0	50.4	40.0	50.5	54.4	02.0			2026	2027	
ECHNI		Lowered	7/7/23	Options:	elative Pric Yes	e Strength															200 160
	00 (1.00 hth Targ	et Price	Range	Shaueu		ates recess															100
.ow-Hig	•	point (%	•						10,600,000				H	'n'''''''''	<u> </u>	<u></u>				+	-80
61-\$10		(20%) OJECTIO				10 <sup>14</sup> 1.11.11.	н <sup>н</sup>					11 <sup>11</sup> 1 1	լիրութ	'nnnt'	4. <del>11    </del>						60 50 40
			nn'i Total Return			•••••			*******	·····											-40
ligh 1	20 (+	⊦75%) ⊦15%)	18% 9%	•••••	ľ	· · · · · ·	••••••	*****	•		····	<u></u>	•••					-			_20
nstitu			ns 1Q2023										••••	•••••••••	•.•••••••	••••		% 10	T. RETUF	IN 6/23 VL ARITH.* INDEX	
o Buy o Sell	302022 339 277	402022 382 254	371	Percent shares traded	20 -		ut it		11.				lul					1 yr. 3 yr.	14.9 46.2	16.5 58.6	F
			343456 2010	2011	<sup>10</sup> - <b>2012</b>	2013	2014		2016	 2017	2018		2020	2021	2022	2023	2024	5 yr. © VΔI	34.1 UE LINE P	48.6	26-28
40.25	43.31	37.98	38.09	39.16	36.41	38.61	41.17	35.37	36.43	37.81	38.85	34.11	35.83	39.18	45.05	45.55	46.65	Revenue	es per sh		50.0
7.60 3.32	8.08 3.68	7.96 3.24	8.41 3.35	9.03 3.23	9.63 4.55	8.80 3.78	9.95 4.33	10.35	10.43 3.94	11.03 4.51	4.69 d1.26	9.81 4.70	10.69 4.52	11.16 4.59	12.07 4.63	12.40 4.75	13.00 5.10		low" per s per sh <sup>4</sup>		14.5 6.0
1.18	1.23	1.25	1.27	1.29	1.31	1.37	1.48	1.73	1.98	2.23	2.43	2.48	2.58	2.69	2.84	2.99	3.14	Div'd De	cl'd per s	sh <sup>B</sup> ∎	3.6
8.67 25.92	8.67 29.21	10.07 30.20	13.94 32.44	14.76 30.86	12.73 28.95	11.05 30.50	11.99 33.64	12.97 34.89	11.46 36.82	11.75 35.82	13.84 32.10	13.47 36.75	14.47 37.08	14.47 36.57	15.12 35.70	15.25 35.25	15.75 35.00		ending p		17.0 42.2
325.81	325.81	325.81	325.81	325.81	325.81	325.81	325.81	325.81		325.81	325.81	361.99	378.91	380.38	382.21	384.00	386.00	Commo	n Shs Ou	tsť g <sup>D</sup>	390.0
16.0 .85	12.4 .75	9.7 .65	10.3 .66	11.8 .74	9.7 .62	12.7 .71	13.0 .68	14.8 .75	17.9 .94	17.2 .87		14.1 .75	13.3 .68	12.9 .70	14.0 .81	Bold fig Value	Line	-	'I P/E Ration P/E Ration		17. .9
2.2%	2.7%	4.0%	3.7%	3.4%	3.0%	2.8%	2.6%	2.8%	2.8%	2.9%	3.8%	3.7%	4.3%	4.5%	4.4%	estim			n'l Div'd Y	ield	3.69
otal De	ebt \$333	01 mill. <b>I</b>	as of 3/31 Due in 5 \	<b>/rs</b> \$9685		12581 1344.0	13413 1539.0	11524	11869 1422.0	12320 1603.0	12657 d290.0	12347 1716.0	13578 1818.0	14905 1907.0	17220	17500 2030	18000 2170	Revenue Net Prof	es (\$mill) it (\$mill)		1950 255
	\$29442 terest Co	mill. <b>I</b> overage:	T Interes 2.9x)	st \$1170 i	mill.	25.2%	22.4% 5.8%	6.6%	11.1% 6.8%	5.0% 7.2%		1.2% 9.6%	5.0% 9.6%	18.0% 8.8%	12.5% 9.6%	13.0% 9.0%	13.0% 9.0%	Income	Tax Rate	Drofit	13.09
eases,	Uncapi	talized A	nnual ren	tals \$542	? mill.	7.8% 45.7%	44.1%	8.0% 45.0%	41.8%	45.6%	53.6%	9.0% 53.5%	9.0% 55.2%	57.6%	9.0% 60.7%	9.0% 63.5%	9.0% 65.5%		% to Net I rm Debt F		8.0 66.5
ensior	Assets	-12/22 \$	3462 mill. (	Oblig \$35	524 mill.	46.2% 21516	47.2% 23216	46.7% 24352	49.2% 24362	45.8% 25506	38.3% 27284	39.9% 33360	39.5% 35581	33.2% 41959	30.6% 44547	28.5% 47425	27.0% 50475		n Equity F pital (\$mi		27.0 6032
ofd Sto	<b>ck</b> \$3879	əmill I	Pfd Div'd	•		30455	32981	35085	37000	39050	41348	44285	47839	50700	53486	56375	59400	Net Plan	t (\$mill)		6917
			,023 shs.	<b>\$2</b> • <b>2</b> • • • •		7.3%	7.7%	7.1%	6.9% 10.0%	7.3% 11.6%	.1% NMF	6.4% 11.1%	6.3% 11.4%	5.6%	5.7%	5.5% 11.5%	5.5% 12.5%		on Total C on Shr. Ec	•	5.5% 12.5%
is of 4/2	25/23	,	lion (Larg	ne Can)		12.5%	13.0%	12.0%	10.8%	12.7%	NMF NMF	12.0%	12.0%	12.5%	12.9%	13.5%	14.5%	Return o	on Com E	quity E	14.0
			STATIST	,		8.1% 40%	8.8% 37%	7.2% 44%	5.6% 53%	6.6% 52%	NMF	5.9% 54%	5.4% 58%	5.4% 61%	5.2% 64%	5.0% 67%	5.5% 65%		d to Com Is to Net I		5.5 64
	letail Sales (I	KWH)	<b>2020</b> +.7	<b>2021</b> -3.9	<b>2022</b> +2.6				rnational (					,	,	mmercial,	,	,	,	,	
.vg. Indust. .vg. Indust. Sapacity at	Use (MWH) Revs. per K\ Pook (Mw)	WH (¢)	589 NA NA	NA NA NA	NA NA NA	supplie	s electric	ity to 5.2	California mill. custo	omers in	n a 50,00	0-sqmi.	area in	costs: 3	37% of	clear, 9% revs. '22	reporte	d depr.	rate: 3.8	%. Has	13,38
eak Load,	Summer (Mw Factor (%)	1)			24345 45.8	Edison	Energy	is an ene	ern CA (e ergy svcs.	co. Disc	c. Edison	Mission	Energy	zaro. In	nc.: CA.	n: William Address:	2244 W	alnut Gro	ove Ave.,	P.O. B	ox 97
Change (	Customers (yr	r-end)	+.6	+.3	+.8				ducer) in '						-	91770. Te					
	e Cov. (%)	S Past	NMF	113 st Est'd	135	to p	ost a	nnua	ationa 1 gain	s in	core	earn	ings	earni	ings	exclude prese	ntatio	on (b	eginni	ing f	fron
	(per sh)	10 Yrs .5	. 5 Yr	s. to	' <b>26-'28</b> 4.0%				the n start							etter 1 king 1					
Cash I	low"	25	% 1	5%	4.0%	quar	ter a	djuste	ed earı	nings	per	share	up up	can a	see th	ne imj	pact o	on the	e bala	nce s	shee
ividen look V	ds	3.0 7.5 1.0	% 6. %	0% 5% 5%	4.5% 5.0% 2.5%				prima tion me							ing de the					
Cal-		TERLY RE	EVENUES (	\$ mill.)	Full	1			ral Rat vs the			,				compa claim					
ndar 2020	Mar.31 2790	2987	Sep.30 4644	3157	Year 13578	certa	in ty	pes of	expen	ses, i	thereb	y circ	eum-	was	paid	out la	ast ye	ear, ye	et the	com	pany
2021 2022	2960 3968	3315 4008	5299 5228	3331 4016	14905 17220				ory la signifi							s that balanc			1 01 11	abilit	y o:
2023 2024	3966 <b>4100</b>	4125	5350	4059 4175	17500				to we rship a							this com					
Cal-		4250 RNINGS F	5475 Per Shari		Full	2023	sha	re ear	nings	outlo	ook of	\$2.5	5 to	elect	fric u	tility	indu	stry's	s med	ian l	eve
ndar			Sep.30		Year				ıs its e hrough					here	. Mo	<b>e'd h</b> ost of	the c	compa	ny's p		
2020	.63 .79	1.00 .94	1.67 1.69	1.19	4.52	rate	relie	fbyv	way of key f	$_{\mathrm{the}}$	regul	atory	um-	highl	ly ra	ted f wsuit	or S	afety.	Mé	anwh	nile,
2022 2023	1.07 1.09	.94 <b>.96</b>	1.48 <b>1.53</b>	1.15 <b>1.17</b>	4.63 <b>4.75</b>	Edis	on re	ently	filed it	s late	est GI	RC.	-	balar	nce-sh	eet w	oes, w	vith d	ebt pi	ling u	ıp t
2024	1.14 OUAR1	1.06	1.63 (IDENDS P/	1.27 ΔID B ∎	5.10				healt							wildf enviro					
Cal- ndar			Sep.30		Full Year	barı	age	of wi	ldfire	clai	ms p	ayme	nts.	chall	enge	for the grade	e utili	ty to	maint	ain it	s in
2019 2020	.6125 .6375	.6125 .6375	.6125 .6375	.6125 .6375	2.45 2.55	of do	llars	in law	, EIX l vsuit se	ettlen	nents	associ	ated	may	well	be ab	le to	grow	its w	ay o	ut c
2021	.6625 .70	.6625 .70	.6625 .70	.6625 .70	2.65				s electr isastro							camen uation					the
2023	.7375	.7375	.7375			fores	st fire	s in t	he Golo	den S	State.	Altho	ugh	Anth	ony J	. Glen	ňon		Jul	y 21,	202
) Adjus	sted (nor	n-GAAP)	EPS fror	n 2019 c 0, 54¢; '1	on.   '22,  1,   '14,	(\$3.02); <sup>-</sup> 57¢; '15,	IQ '23, (i 11¢; '18	28¢); diso , 10¢. Qt	. ops.: '13, y. EPS ma . report due	11¢;	Oct. ■ D chgs. In	iv'd reinv '22: \$2.4	/. plan a 49/sh. <b>(E</b>	vail. <b>(C)</b> )) In mill	Incl. de I. <b>(E)</b> Ra	f'd Cor ate Sto	npany's ck's Pric	Financia ce Stabili	I Streng ty	th	B++ 80 35

Excl. gains/(losses): nonrecur's ; '10, 54¢; '11, | '14, 57¢; '15, 11¢; '18, 10¢, Ctły. EPS may not | chgs. In '22: \$2.49/sh. (D) In mill. (E) Rate | (\$3.33); '13, (\$1.12); '15, (\$1.18); '17, (\$1.37); | sum due to rounding. Next egs. report due ear | base: net orig. cost. Rate all'd on com. eq. in | y Aug. (B) Div'ds paid late Jan., Apr., July, & '20: 10.3%; Regulatory Climate: Average. (\* 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

Company's Financial Strength<br/>Stock's Price StabilityB++8080Price Growth Persistence35Earnings Predictability10

N	<b>ER</b>	GY (	CORF	D. NYS	E-ETR		R P	ecent Rice	95.28	P/E RATI	<b>14.</b>	2 (Trailir Media	ng: 14.5) an: 14.0)	RELATIVE P/E RATIO	<b>0.8</b>	5 DIV'D YLD	4.5	% <sup>V</sup>	ALUI LINE		of
MELIN		3 Raised 9		High: Low:	74.5 61.6	72.6 60.2	92.0 60.4	90.3 61.3	82.1 65.4	87.9 69.6	90.8 71.9	122.1 83.2	135.5 75.2	115.0 85.8	126.8 94.9	111.9 94.0				t Price 2027	
		2 Raised 1 3 Raised 8		LEGEI	7.00 x Divio	dends p sh															32
ECHNI E <b>ta</b> .9	CAL C 95 (1.00 :		/11/23	Re Options:	elative Pric Yes	terest Rate e Strength															2
		get Price	Range	Shaded	area indic	ates recess	sion														+16
ow-Hig	•	dpoint (%	to Mid)										44 - 11111111	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	<sub>╋╋</sub>	ī,ī,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					+12
34-\$14		16 (20%) ROJECTIO		՝՝իուլը՝	հերկեր	ոսիսիս		որույ <sub>ին</sub> Մուրեր		ոսոր	1,111,111,111,11	1 <sup>1.</sup>	1	11		-					
	o-zo P n Price		nn'i Total Return	••••••																	
gh 1		(+40%) (+5%)	13% 6%			•••••		••••••••••	••••••												<b>—</b> •
	tional I	Decisio	ns				•••		••••	••••••*•	••••••	•••		•	·········	•••••					1
Buy	4Q2022 377	367	202023 405	Percent shares	20 -		սհոս				-	1.1.	+	1 11					-7.3 9.2	INDEX 11.5 59.2	Ē
	274 186530	184354		traded	10 -													5 yr.	51.1	52.2	ţ.
<b>007</b> 59.47	2008 69.15		<b>2010</b> 64.27	<b>2011</b> 63.67	<b>2012</b> 57.94	<b>2013</b> 63.86	<b>2014</b> 69.71	<b>2015</b> 64.54	2016 2 60.55	2017 61.35	2018 58.23	<b>2019</b> 54.63	2020 50.51	<b>2021</b> 57.95	<b>2022</b> 65.18	2023 54.90	2024 7.80	© VALU Revenue:		UB. LLC	26-2 65
1.73	12.89	13.29	16.54	17.53	15.98	16.25	17.68	17.71	18.72	16.70	16.50	17.19	18.21	17.90	15.51	17.25	17.05	"Cash Fle	ow" per	sh	18
5.60 2.58	6.20 3.00		6.66 3.24	7.55 3.32	6.02 3.32	4.96 3.32	5.77 3.32	5.81 3.34	6.88 3.42	5.19 3.50	5.88 3.58	6.30 3.66	6.90 3.74	6.87 3.86	5.37 4.10	6.80 4.30	6.05 4.45	Earnings Div'd Dec			(
0.29	13.92	12.99	13.33	15.21	18.18	15.73	14.82	16.79	17.28	22.07	22.45	21.72	24.52	30.86	25.04	23.00	19.00	Cap'l Spe	nding p	er sh	1
0.71 3.12	42.07 189.36		47.53 178.75	50.81 176.36	51.73 177.81	54.00 178.37	55.83 179.24	51.89 178.39	45.12 179.13	44.28	46.78 189.06	51.34 199.15	54.56 200.24	57.42 202.65	61.40 211.18	62.85 214.00	65.50 218.00	Book Val Common	· ·		7. 23
19.3	16.6		11.6	9.1	11.2	13.2	12.9	12.5	10.9	15.0	13.8	16.5	15.3	15.0	21.1	Bold fig	ures are	Avg Ann'		0	20
1.02	1.00 2.9%		.74 4.2%	.57 4.9%	.71 4.9%	.74 5.1%	.68 4.5%	.63 4.6%	.57 4.6%	.75 4.5%	.75 4.4%	.88 3.5%	.79 3.6%	.81 3.7%	1.22 3.6%	Value estin	Line ates	Relative I Avg Ann'		-	4
		JCTURE a			4.3 /0	11391	12495	11513	10846	11074	11009	10879	10114	11743	13764	11750	12600	Revenue		iciu	15
al De	ebt \$272	279 mill. <b>I</b> 2 mill. <b>I</b>	کا Due in 5	<b>/rs</b> \$1111		904.5	1060.0	1061.2	1249.8	950.7	1092.1	1258.2	1406.7	1402.8	1103.2	1455	1320	Net Profit	t (\$mill)		
. \$54	1.7 mill. o	of securiti	zation bor			26.7% 10.1%	37.8% 9.3%	2.2%	11.3% 8.1%	1.8% 14.7%	 17.5%	 16.7%	 12.2%	16.1% 7.1%	16.1% 2.5%	23.0% 10.0%	23.0% 8.0%	Income T AFUDC %		Profit	23 7
ases,	, Uncapi	ned: 2.8x) italized A	Innual ren		1 mill.	55.1%	54.9%	57.8%	63.6%	63.6%	63.2%	62.0%	65.5%	67.6%	64.2%	64.5%	64.5%	Long-Ter	m Debt F	Ratio	64
nsior	I Assets	s-12/22 \$		ill. blig \$840	9.6 mill.	43.6% 22109	43.8% 22842	40.8%	35.5% 22777	35.5% 22528	35.9% 24602	37.1% 27557	33.7% 32386	31.7% 36733	35.2% 36810	35.5% 41110	35.5% 43545	Common Total Cap			35 48
		l.4 mill. <b> </b> 25%-7.5%	Pfd Div'd	\$18.3 mi	II.	27882	28723	27824	27921	29664	31974	35183	38853	42244	42477	45025	50590	Net Plant	(\$mill)		50
	1.4 mill.	shs. 5.37				5.4% 9.1%	6.0% 10.3%	6.0%	6.9% 15.1%	5.7% 11.6%	5.8% 12.0%	5.9% 12.0%	5.6% 12.6%	4.9% 11.8%	4.3% 8.4%	4.5% 9.0%	4.0% 9.0%	Return or Return or			4
mmo	on Stock	<b>k</b> 211,455			31/23	9.2%	10.4%	11.2%	15.2%	11.7%	12.2%	12.1%	12.7%	11.9%	8.4%	9.0%	9.0%	Return or	n Com E	quity E	8
		\$20.2 bil ERATING				3.0% 68%	4.4% 58%	4.8%	7.7% 50%	3.9% 68%	4.9% 61%	5.2% 58%	5.9% 55%	5.2% 57%	1.9% 78%	2.5% 63%	2.5% 74%	Retained All Div'ds			2
	Retail Sales		2020 -4.1	<b>2021</b> +3.2	<b>2022</b> +1.1				prporation									%; nuclea			
Indust.	Use (MWH) Revs. per K	) í	1017 4.95	1015 5.91	1018 7.08				diaries in A ns (regulat									revenues oyees. Ch			
acity at	Peak (Mw) Summer (Mi	. ,	25665 21340	NA	NA	Distribu	utes gas	to 206,00	00 custome	rs in Lo	uisiana.	Is selling	its last	Denault.	Incorpo	rated: D	elaware.	Address	: 639 L	_oyola A	Aver
ual Loag	d Factor (%) Customers (y		62 +1.0	NA +1.0	NA +1.0				shut down commercia						x 61000, 0. Interne		,	ouisiana 7 om.	0161. I	lelephon	ne: 5
•	e Cov. (%)	. ,	202	243	209	Ente	ergy	reco	rded	a_m	uch	stron	ger					npany			
NUA	L RATE	S Past	Pas	st Est'd	i '20-'22				uarter enues									Enter d from			
veňu		5	% -1.	5%	' <b>26-'28</b> 2.0%	billio	on as	lowe	r fuel	price	s red	uced	cus-	factu	ring o	custor	ners,	and	we t	hink	tł
ning		.5 5 1.5	% 1.	5%	1.5% .5% 4.0%				Still, le margi					U.S.			be a r wea	1eadwi aken.		dition	
	alue	1.5			4.0%	less	for t	he inj	out, ar	d it	benet	fited f	from					rial p ea hav			
l- ar	QUAF Mar.31	RTERLY RE	VENUES ( Sep.30		Full Year	quar	ter. F	rofits	write-d also b	enef	ited fi	roms	ome					ntergy			
20	2427	2413	2904	2370	10114				lits re mai					sever	al pro	ojects	in se	ervice vatts o	throu	ugh 2	202
21 22	2845 2878	2822 3395	3353 4219	2723 3273	11743 13764				not all									we t			
23	2981	2846	2900	3023	11750				reased llowed									nental luding			
	2900 E/	3300 Arnings f	3300 PER SHARI	3100 E ^	12600 Full	to \$1	1.84 p	er sha	are dui	ring t	he qu	arter.	We	Arka	nsas	starti	ng in	Janua	ary 2	024.	Çc
24	Mar.31	Jun.30	Sep.30	Dec.31	Year				esults of the									, we p ber sha			
24 11- Iar	.59	1.79 1.30	2.59 2.63	1.93 1.28	6.90 6.87	nues	will	likel	y face	toug	gh coi	mparis	sons	fore r	eboun	ding	to \$6.	50 by	2026-	-2028	•
24 11- 1ar 20	1.66		2.74	.51	5.37				nergy j from									C <b>orp. :</b> ess. Th			
24 dar 20 21 22	1.66 1.36	.78 1 84		.79	6.80				isiana.	Addi	tiona	lly, a	few	ty ha	s belo	w-av	erage	3- to		r app	pre
24 al- dar 20 21 22 23	1.66	1.84 .95	2.70 2.85	.85	6.05						01701	• tho ·	naet	ation	noten	+1-1 .	1*				
24 dal- dar 20 21 22 23 24 al-	1.66 1.36 1.47 <b>1.40</b> QUART	1.84 <i>.95</i> Terly Divi	2.85 Dends Pa	<i>.85</i> ID <sup>B</sup> ■ †	Full	posit	ive r		se outo boost t										l is a		
24 dar 20 21 22 23 24 al- dar	1.66 1.36 1.47 <b>1.40</b> QUARI Mar.31	1.84 <i>.95</i> TERLY DIVI Jun.30	2.85 DENDS PA Sep.30	.85 ID <sup>B</sup> = † Dec.31	Full Year	posit year rates	tive ra will l s star	ikely ted S	boost t eptemb	he b er 1	ottom st in	line. İ Louisi	New iana	Cash proje	flow t it	s cov will	ver tl grow	ne pa stead	yout, ily. '	and The y	yie
24 al- dar 20 21 22 23 22 23 24 al- dar 19 20	1.66 1.36 1.47 <b>1.40</b> QUARI Mar.31 .91 .93	1.84 .95 TERLY DIVI Jun.30 .91 .93	2.85 DENDS PA Sep.30 .91 .93	.85 ID <sup>B</sup> ■ † Dec.31 .93 .95	Full Year 3.66 3.74	posit year rates and	tive ra will l s star New	ikely ted S Orlea	boost t eptemb ns, wh	he b er 1 ile th	ottom st in ne com	line. İ Louisi ıpany	Ñew iana has	Cash proje comp	flow ct it ares f	s cov will avora	ver tl grow ably to	he pa stead o othe	yout, ily. 7 rs in	and The y <i>The</i>	yie Su
24 al- dar 20 21 22 23 24 al- dar 19	1.66 1.36 1.47 <b>1.40</b> QUARI Mar.31 .91	1.84 <i>.95</i> TERLY DIVI Jun.30 .91	2.85 DENDS PA Sep.30 .91	.85 ID <sup>B</sup> ■ † Dec.31 .93	Full Year 3.66	posit year rates and filed ditio	tive ra will l s star New elsew nal r	ikely ted S Orlea vhere revenu	boost t eptemb	he bo er 1 ile th over e ha	ottom st in le con age an lve ra	line. Louisi pany ea for aised	New iana has ad- our	Cash projecomp vey.	flow ct it ares f Thus,	s cov will avora we t ncom	ver tl grow ably to hink e-seek	ne pa stead	yout, ily. 7 rs in tock	and The y <i>The</i> is a	yie Su

(A) Diluted EPS. GAAP starting in 2022. Excl. vember.
 (B) Div'ds historically paid in early
 (D) In mill. (E) Rate base: Net original cost. Al-nonrec. losses: '12, \$1.26, '13, \$1.14, '14, \$66; '15, \$6.99, '16, \$10.14, '17, \$2.91; '18, \$1.25; 'plan avail. † Shareholder investment plan avail.
 (C) Incl. deferred charges. In '22: \$23.64/sh.

	-,
Company's Financial Strength	B++
Stock's Price Stability	90
Price Growth Persistence	65
Earnings Predictability	75

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EXE	LO	N CC	)RP.	NDQ-E	XC		R	ecent Rice	41.8	6 P/E RATI	o <b>17.</b>	4 (Traili Media	ng: 18.3 an: 14.0	RELATIV P/E RATI	5 <b>1.0</b>	0 DIV'D YLD	3.4	<b>%</b>	ALU Line	≡ <sup>13</sup>	
IMELIN		p		High: Low:	43.7 28.4	37.8 26.6	38.9 26.5	38.3 25.1	37.7 26.3	42.7 33.3	47.4 35.6	51.2 43.4	50.5 29.3	58.0 38.4	58.2 35.2	44.4 38.8				t Price 2027	
FETY		2 Raised 8		LEGEI	3.60 x Divio	dends p sh													2020	2021	
			ed 2/4/22	•••• Re	elative Pric	terest Rate Strength															<u>_</u>
		0 = Market) <b>get Price</b>	Range	Options: Shaded		ates recess	ion														$\pm $
<i>n</i> -Hig	-	point (%	•	արդոր							البين			ارینی میں بین		ll⊥i⊺i- <b>@</b> - ^					_
5-\$50	\$38	(-10%)		••••	Loon <sup>d</sup>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,	ц	, IIIIIIII	huunn	11111.		1րուլ,		<u>1-1 - 171</u>						‡;
2026	6-28 PR		DNS nn'l Total	•••••	****				1												+
		Gain +45%)	Return 12%			••		•	*****			***********	•								+
	45 (·	+10%)	5%			· · ·		******		,	********	•	••••	••••••	• •••			% TO	Retur	N 7/23	F
	3Q2022		1Q2023	Percen	t 30 <del>-</del>									*****	•	••••••			STOCK	VL ARITH.*	L
all S	467 425	494 421	474 378	shares traded					Hhmm	hudoan	Ht.tttr					hiliti.		1 yr. 3 yr.	-6.9 19.9	11.5 59.2	E
· ·	306022 2008		809770 2010	2011	2012	2013	2014	2015	2016		2018	2019	2020	2021	2022	2023	2024	5 yr. © VALI	15.4 JE LINE P	52.2 UB. LLC	26
.62	28.65	26.25	28.17	28.53	27.48	29.03	31.90	32.01	33.94		37.17	35.39	33.85	37.13	19.19	19.80	20.20		s per sh		2
.43 .03	7.64 4.10	8.25 4.29	8.32 3.87	7.23 3.75	6.61 1.92	6.72 2.31	6.61 2.10	6.80 2.54	7.88 2.68	8.37 2.78	9.29 3.12	9.17 3.22	9.65 3.22	10.56	6.07 2.26	6.75 2.40	7.00 2.50	"Cash Fl Earnings	low" per		
.03	4.10 2.05	2.10	2.10	2.10	2.10	1.46	1.24	1.24	1.26	1.31	1.38	1.45	1.53	1.53	1.35	1.44	2.50	Div'd De			
.05	4.74	4.96	5.03	6.09	6.77	6.29	7.07	8.29	9.26	7.87	7.84	7.45	8.25	8.15	7.19	6.80		Cap'l Sp			
.34	16.78 658.15	19.16 659.76	20.49 661.85	21.68 663.37	25.07 854.78	26.52 857.29	26.29 859.83	28.04 919.92	27.96 924.04	30.99 963.34	31.77 968.19	33.12 973.00	33.39 976.00	35.13 979.00	24.89 994.00	25.20 995.00	25.20 1000.00	Book Va Commor			1
8.2	18.0	11.5	11.0	11.3	19.1	13.4	16.0	12.6	12.5	13.4	13.3	14.7	12.4	16.6	19.9	Bold fig		Avg Ann	'l P/E Rat	io	
.97 5%	1.08 2.8%	.77 4.3%	.70 4.9%	.71 5.0%	1.22 5.7%	.75 4.7%	.84 3.7%	.63 3.9%	.66 3.7%	.67 3.5%	.72 3.3%	.78 3.1%	.64 3.8%	.90 3.3%	1.15 3.2%	Value estim			P/E Ratio 'I Div'd Y		
			us of 3/31		0.1 /0	24888	27429	29447	31360	33531	35985	34438	33039	36347	19078	19700	20200	Revenue			2
			)ue in 5 \ T Interes.			1999.0	1826.0	2282.0	2488.0	2636.0	3026.0	3139.0	3149.0	2764.0	2246.4	2400	2500	Net Prof	it (\$mill)		
udes	\$390 m	ill. nonree	course tra			36.5% 4.5%	27.2% 5.5%	32.2% 5.4%	38.5% 8.3%	34.2% 6.5%	11.1% 4.6%	19.4% 5.0%	17.4%	16.1%	14.5%	15.0% 6.0%	15.0% 5.0%	Income T		Profit	1
		ge: 2.7x) i <b>talized</b> A	nnual ren	tals \$156	6 mill.	44.4%	46.7%	48.3%	55.5%	52.2%	52.8%	49.6%	52.1%	50.9%	59.9%	61.0%	61.0%	Long-Ter	rm Debt F	Ratio	6
nsion	Assets	-12/21 \$	20827 mil	I		55.2% 41196	52.8% 42811	51.3% 50272	44.5% 58053	47.8%	47.2% 65229	50.4% 63943	47.9% 68068	49.1% 70107	40.2%	39.0% 64125		Commor Total Ca			3.
	<b>k</b> None			 olig \$238	46 mill.	47330	52087	57439	71555	74202	76707	80233	82584	84219	69076	69175				")	7
						5.9% 8.7%	5.3% 8.0%	5.5% 8.8%	5.5% 9.6%	5.3% 8.8%	5.7% 9.8%	6.0% 9.7%	5.7% 9.7%	5.0% 8.0%	5.0% 9.5%	5.0% 9.5%	5.0% 10.0%	Return o Return o		•	1
of 3/3	31/23	994,568				8.7%	8.0%	8.8%	9.6%	8.8%	9.8%	9.7%	9.7%	8.0%	9.5%	9.5%		Return o			1
			lion (Larg	,		3.2% 63%	3.3% 59%	4.5% 49%	5.1% 47%	4.7% 47%	5.5% 44%	5.4% 45%	5.1% 47%	3.7% 54%	4.0% 60%	4.0% 60%	4.0% 60%	Retained All Div'd			
			STATIST 2020	2021	2022					is a hol								54%; sma			
Indust. I	etail Sales ( Use (MWH)		NA NA	NA NA	NA NA	monwe	alth Edis	son (Cor	nEd), Pl	ECO Ene	rgy, Balt	imore Ga	as and	16%; la	rge comr	mercl. & i	ndstrl., 1	7%; othe	r, 13%. I	uel cos	ts:
acity at F	Revs. per K Peak (Mw)	WH (¢)	NA NA	NA NA	NA NA					Power (D 1.3 mill.								.7% elec. EO: Calvi			
Load (N Factor	(%)	N	NA NA	NA NA	NA NA					ed genera								79, Chica		0680-537	79.
•	ustomers (y	rr-ena)	+.7	+.6	NA					inergy 3/1 n lool	-	-						utility.		ed e	ar
	e Cov. (%) L <b>RATE</b> :	S Past	211 Pas	237 st Est'd	325	ress	ing s	moot	hly, a	ıs an	entir	ely re	egu-	ings	have	been	much	less	volati	le of	la
	(per sh)	10 Yrs. 2.5	5 Yr	s. to	'26-'28 NMF					ebruaı ılated				and ward		pect ti	nis to	contii	nue m	loving	; t
ash F	low"	3.0 5	% 5. % 2	5%	NMF NMF	ing a	assets	as a	new	comp	any,	Const	ella-					nave ,			
	ds	-3.0 4.5	% 4.	0%	NMF NMF					AQ:CE								e <b>veral</b> y, Atla			
ning: deno			VENUES (		Full	3-for	-1 ra	tio. T	he ne	ew en	tirely	regul	ated					on ba			
ning iden ok Va			Sep.30		Year					more ht to								in inf cpecte			
ming iden ok Va al- lar	Mar.31	7322	8853 8910	8117 9632	33039 36347	more	e cons	sistent	ly. Ir	ndeed,	secon	d-qua	rter	ond	multi	-year	plan	with	$\mathbf{the}$	Mary	la
rning iden ok Va al- lar 20		7915	4845	4667 <b>4419</b>	19078 <b>19700</b>					of \$0.4 pectat								ission r peno			
ning iden ok Va II- lar 20 21 22	Mar.31 8747 9890 5327	4239		4413			$\operatorname{calls}$	of \$0	.40.	Along	with	impr	oved	and 1	rate r	elief w	zill lik	cely co	ontinu	e to d	lr
ning ideno ok Va II- Iar 20 21 22 23	Mar.31 8747 9890		4900 5500	4550	20200			y, Ex		contin d higł					ngs le of y		n th	rough	out	the	ne
ning idend bk Va lar 20 21 22 23 24 II-	Mar.31 8747 9890 5327 5563 5300 EA	4239 4818 <b>4850</b> Arnings F	4900 5500 PER SHARI	A	Full	consi		relie				n-line		This	issu	le ma	iy ap	ppeal		onse	
nings iden ok Va lar 20 21 22 23 24 al- lar	Mar.31 8747 9890 5327 5563 5300 EA	4239 4818 <b>4850</b> ARNINGS F Jun.30	4900 5500	A		consi from rates	rate . As		esult,			ho					•				-11
nings idend ok Va lar 20 21 22 23 24 al- lar 20 21	Mar.31 8747 9890 5327 5563 5300 EA Mar.31 .87 d.06	4239 4818 <b>4850</b> ARNINGS F Jun.30 .55 .89	4900 5500 PER SHARI Sep.30 1.04 1.09	A Dec.31 .76 .90	Full Year 3.22 2.82	consi from rates tima	rate s. As tes fo	a re or 202	esult, 3 and	d 2024	l are							ed in	nvest	ors.	
rning: idenci bk Vz lar 20 21 22 23 24 24 21 22 23 24 22 23 24 22 22 22 22 22 22 22 22 22 22 22 22	Mar.31 8747 9890 5327 5563 5300 EA Mar.31 .87	4239 4818 4850 ARNINGS F Jun.30 .55	4900 5500 PER SHARI Sep.30 1.04	A Dec.31 .76	Full Year 3.22	consi from rates tima \$2.50 ment	rate s. As tes fo ) a sl t reaf	a re or 202 hare, firme	esult, 3 and respe 1 its	d 2024 ctively full-ye	l are 7. Too, ar 20	man	age-	divid avera	end age, a	yield nd Ex	of tl celon :	e <b>d i</b> n his st is con	n <b>vest</b> tock sidere	<b>ors.</b> is ak ed to	bo be
ning ideno bk V la lar 20 21 22 23 24 21 22 23 24 20 21 22 22 23 24	Mar.31 8747 9890 5327 5563 5300 EA Mar.31 .87 d.06 .64 .70 .70	4239 4818 <b>4850</b> ARNINGS F Jun.30 .55 .89 .44 .41 .50	4900 5500 ER SHARI Sep.30 1.04 1.09 .75 .79 .80	A Dec.31 .76 .90 .43 .50 .50	Full Year 3.22 2.82 2.26 2.40 2.50	consi from rates tima \$2.50 ment tions	rate s. As tes fo ) a sl t reaf t of \$2	a re or 202 hare, firme 2.30 to	esult, 3 and respe d its \$2.4	d 2024 ctively full-ye 2 a sha	l are 7. Too, 2ar 20 are.	man 23 pr	age- ojec-	divid avera solid	end age, a addit	yield nd Ex tion to	of th celon : a w	ed in his st is con ell-rou	nvest cock sidere inded	ors. is ak ed to porti	be fol
rninggridenning bolk Va al- dar 20 21 22 23 24 dar 20 21 22 23 24 20 21 22 23 24 24 al- dar 20 21 22 23 24	Mar.31 8747 9890 5327 5563 5300 Mar.31 .87 d.06 .64 .70 .70 QUAR	4239 4818 4850 ARNINGS F Jun.30 .55 .89 .44 .41 .50 TERLY DIV	4900 5500 PER SHARI Sep.30 1.04 1.09 .75 .79 .80 IDENDS P	A Dec.31 .76 .90 .43 .50 .50 AID <sup>B</sup> ■	Full Year 3.22 2.82 2.26 2.40 2.50 Full	consi from rates tima \$2.50 ment tions <b>The</b> <b>nual</b>	rate s. As tes fo ) a sl t reaf of \$2 com	a re or 202 hare, firme 2.30 to <b>pany</b> ea	esult, 3 and respe d its \$2.4 cont cont	d 2024 ctively full-ye 2 a sha <b>inues</b> (s a:	are 7. Too, 7. Too, 7. Too, 7. Too 7.	mana 23 pr arget divid	age- ojec- <b>an-</b> end	divid avera solid Due tion	end age, a addit to the Energ	yield nd Ex tion to e com gy, the	of the celon of the celon of the celon the stock	z <b>ed i</b> n his st is con ell-rou spino k rem	nvest cock sidere inded ff of ains	ors. is ak ed to port Const unrar	be fol æl
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rning: rideni ok Va al- dar 20 21 22 23 24 al- dar 20 21 22 23 24 al- dar 19 20	Mar.31 8747 9890 5327 5563 5300 E4 Mar.31 .87 d.06 .64 .70 .70 QUAR Mar.31 .3625 .3825	4239 4818 4850 ARNINGS F Jun.30 .55 .89 .44 .41 .50 TERLY DIV Jun.30 .3625 .3825	4900 5500 PER SHARI Sep.30 1.04 1.09 .75 .79 .80 IDENDS P/ Sep.30 .3625 .3825	A Dec.31 .76 .90 .43 .50 .50 AID B ■ Dec.31 .3625 .3825	Full           Year           3.22           2.82           2.26           2.40           2.50           Full           Year           1.45           1.53	consi from rates tima \$2.50 ment tions <b>The</b> <b>nual</b> grov agem	rate s. As tes fo ) a sl t reaf of \$2 com lized vth c nent	a re or 202 hare, firme 2.30 to pany eau of 6% expec	esult, 3 and respe 1 its \$2.4 cont cont rning -8% 1 ts its	d 2024 ctively full-ye 2 a sha <b>inues</b> (s a) throus (capit	are 7. Too, 9. Too, 9. Too, 9. Too 9. Too 9. Too 1. Too, 9. Too 9.	man 23 pr arget divid )25. M spendi	age- ojec- <b>an-</b> <b>end</b> Man- ture	divid avera solid Due tion for poter	end age, a addit to the Energ Timeli ntial o	yield nd Ex tion to e com gy, the iness. over t	of the elon a pany stock Mean he 18	z <b>ed i</b> n his st is con ell-rou spino k rem	nvest cock sidere inded ff of ains e, tot h and	ors. is ak ed to port Const unrar al re d 3- 1	be fol el nk tu
rning: ridennok Va al- dar 20 21 22 23 24 al- dar 20 21 22 23 24 24 al- dar 20 21 22 23 24 19	Mar.31 8747 9890 5327 5563 5300 E4 Mar.31 .87 d.06 .64 .70 .70 QUAR Mar.31 .3625	4239 4818 4850 Jun.30 .55 .89 .41 .50 TERLY DIV Jun.30 .3625 .3825 .3825	4900 5500 ER SHARI Sep.30 1.04 1.09 .75 .79 .80 IDENDS P/ Sep.30 .3625	A Dec.31 .76 .90 .43 .50 .50 AID B ■ Dec.31 .3625	Full           Year           3.22           2.82           2.26           2.40           2.50           Full           Year           1.45	consi from rates tima \$2.50 ment tions <b>The</b> nual grov agen plan share	rate s. As tes fo ) a sl t reaf of \$2 com lized vth construction to construction	a re or 202 hare, firmed 2.30 to <b>pany</b> ear of 6% expection ontributers the	esult, 3 and respe 1 its \$2.4 cont cning -8% t ts its ute a rough	d 2024 ctively full-ye 2 a sha <b>inues</b> (s a) through	are 5. Too, 6. Too, 7. Too, 7. Too 7. Too 7. Too 7. Too 7. Too 7. We	mana 23 pr arget divid )25. M pendi )%-119 think	age- ojec- <b>an-</b> <b>end</b> Man- ture % to Ex-	divid avera solid Due tion for poter year recen	end age, a addit to the Energ Fimeli tial c stretc at pric	yield nd Ex tion to e com gy, the iness. over t	of the celon of pany e stock Mean he 18 mappe rease.	ed in his st is con ell-rou spino k rem nwhile b-mont ealing	nvest cock sidere inded ff of ains e, tot h and	ors. is al ed to port Const unrar al re d 3- t n with	be fol el nk tu to n t

(20¢); '12, (50¢); '13, (31¢); '14, (22¢); '16, (\$Nov. (B) Div'ds paid in early Mar., June, Sept., 9.25%; in MD in '16: 9.75% elec., 9.65% gas; (\$1.46); '17, \$1.19, '18, (\$1.05); '19, (21¢); '20, (\$ Dec. = Div'd reinvest. plan avail. (C) Incl. in NJ in '16: 9.75%. Regulatory Climate: PA, (\$1.21); '21, (\$1.08); 1Q22, (15¢); disc. ops.
 (\$ deferred charges. In '22: \$15.20/sh. (D) In mill. NJ: Average; IL, MD: Below Avg.
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 Company's Financial Strength
 B++

 Stock's Price Stability
 NMF

 Price Growth Persistence
 NMF

 Earnings Predictability
 NMF

																			Cause		45911
IDA	CO	RP, II	VC. N	IYSE-ID	A		R	ecent 4 Rice	02.7	8 P/E RATIO	o <b>20.</b>	<b>)</b> (Trailin Media	ng: 19.4) an: 20.0)	RELATIV P/E RATI	ĕ <b>1.1</b>	6 DIV'D YLD	3.2	%	ALUI LINE	<u></u> 14	of 22
		Lowered		High: Low:	45.7 38.2	54.7 43.1	70.1 50.2	70.5 55.4	83.4 65.0	100.0 77.5	102.4 79.6	114.0 89.3	113.6 69.1	113.8 85.3	118.9 93.5	113.0 99.4				Price	
TECHNI		Raised 1 Lowered		LEGEN 30	0.3 x Divide elative Pric	ends p sh e Strenath															200
BETA .8			1/21/20	Options:	Yes	-	ion														- 160
18-Mor		get Price	•	l						<sup>п</sup>	Lul <sup>111111</sup>		կ Սաս		վիրդեր	<u></u>					-100
Low-Hig \$88-\$14		lpoint (% 6 (10%)	to Mid)				րլ	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				100-11								80 60
			ONS			annet the second						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									50 40
	Price		nn'l Total Return		·	·•••	•••		•••••••••	***********	*********	•••••••••	••••		•••						30
		+35%) +10%)	11% 6%			•••	•••••••							••••••••••	•••••	•.•••		« то <sup>.</sup>	F. Retur	N 6/00	_20
Institu	tional   302022	Decisio 402022	ns 1Q2023										1	 						/L ARITH.*	
to Buy to Sell	159		174	Percent shares traded	t 15 - 10 - 5 +	يا الله				վորութ					u uullauti	.II .I		1 yr. 3 yr.	-0.3 28.1	16.5 58.6	E
Hld's(000) 2007	40715 2008	41351	41405 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	5 yr. © VΔI	27.0	48.6	26-28
19.51	20.47	21.92	20.97	20.55	21.55	24.81	25.51	25.23	25.04	26.76	27.19	26.70	26.77	28.86	32.51	34.30	34.95		s per sh	00. 220	37.25
4.11 1.86	4.27 2.18	5.07 2.64	5.35 2.95	5.84 3.36	5.93 3.37	6.29 3.64	6.58 3.85	6.70 3.87	6.86 3.94	7.50 4.21	7.85 4.49	8.07 4.61	8.19 4.69	8.41 4.85	8.55 5.11	8.80 5.15	9.30 5.40		ow" per s per sh <sup>4</sup>		10.65 6.30
1.20	1.20		1.20	1.20	1.37	1.57	1.76	1.92	2.08	2.24	2.40	2.56	2.72	2.88	3.04	3.20	3.40	•	cl'd per s		4.15
6.39 26.79	5.19 27.76		6.85 31.01	6.76 33.19	4.78 35.07	4.68 36.84	5.45 38.85	5.84 40.88	5.89 42.74	5.66 44.65	5.51 47.01	5.53 48.88	6.16 50.73	5.94 52.82	8.56 55.52	14.00 57.95	16.00 60.25		ending p lue per sl		11.00 67.00
45.06	46.92	47.90	49.41	49.95	50.16	50.23	50.27	50.34	50.40	50.42	50.42	50.42	50.46	50.52	50.56	51.00	51.50	Commo	n Shs Out	sťg D	53.00
18.2 .97	13.9 .84		11.8 .75	11.5 .72	12.4 .79	13.4 .75	14.7 .77	16.2 .82	19.1 1.00	20.6 1.04	20.5 1.11	22.3 1.19	19.9 1.02	20.8	21.0 1.21	Value	ures are Line	-	'I P/E Rat P/E Ratic		20.0 1.10
3.5%	4.0%	4.5%	3.4%	3.1%	3.3%	3.2%	3.1%	3.1%	2.8%	2.6%	2.6%	2.5%	2.9%	2.9%	2.8%	estin	nates		'l Div'd Y		3.3%
			as of 3/31 Due in 5 \		0 mill	1246.2 182.4	1282.5 193.5	1270.3 194.7	1262.0 198.3	1349.5	1370.8 226.8	1346.4 232.9	1350.7	1458.1 245.6	1644.0 259.0	1750 265	1800 280	Revenue			1975 335
LT Debt	\$2483.	1 mill. <b>I</b>	T Interes			28.3%	8.0%	194.7	196.5	212.4 18.6%	7.1%	9.5%	237.4 10.8%	13.1%	12.7%	13.0%	13.0%	Net Prof Income	<u>, , , , , , , , , , , , , , , , , , , </u>		13.0%
		overage:	,			12.3% 46.6%	13.6% 45.3%	16.3% 45.6%	16.3% 44.8%	13.9% 43.7%	15.2% 43.6%	16.2% 41.3%	17.3% 43.9%	17.7% 42.8%	19.8% 43.9%	15.0% 46.5%	15.0% 47.0%		6 to Net F m Debt F		16.0% 50.0%
Pensioi	1 Assets	s-12/22 \$	339.7 mill <b>0</b>	blig \$953	3.8 mill.	40.0 <i>%</i> 53.4%	43.3% 54.7%	54.4%	55.2%	43.7 % 56.3%	43.0 % 56.4%	58.7%	43.3 % 56.1%	57.2%	43.3 % 56.1%	40.5 % 53.5%	53.0%	-	Equity F		50.0%
Pfd Sto	<b>ck</b> None	)				3465.9 3665.0	3567.6 3833.5	3783.3 3992.4	3898.5 4172.0	3997.5 4283.9	4205.1 4395.7	4201.3 4531.5	4560.4 4709.5	4669.1 4901.8	5001.4 5173.0	5430 5650	5800 6000	Total Ca Net Plan	oital (\$mi t (\$mill)	II)	7000 7000
Commo	on Stock	<b>\$</b> 50,607,6	611 shs.			6.4%	6.6%	6.2%	6.1%	6.3%	6.4%	6.5%	6.1%	6.2%	6.1%	6.0%	6.0%	Return o	n Total C		5.5%
as of 4/	28/23					9.9% 9.9%	9.9% 9.9%	9.5% 9.5%	9.2% 9.2%	9.4% 9.4%	9.6% 9.6%	9.4% 9.4%	9.3% 9.3%	9.2% 9.2%	9.2% 9.2%	9.0% 9.0%	9.0% 9.0%		n Shr. Eq n Com Ec		9.5% 9.5%
MARKE	T CAP:	\$5.2 billi	on (Mid C	Cap)		5.6%	5.4%	4.8%	4.3%	4.4%	4.4%	4.2%	3.9%	3.7%	3.7%	3.5%	3.5%	Retained	to Com	Éq	3.5%
			STATIST 2020	2021	2022	43%	46%	50%	53%	53%	54%	56% for Idaho	58%	60%	60%	62%	63% er, 1%. 0	All Div'd			66%
% Change F Avg. Indust.	Use (MWH)	Í	+2.0 NA	+3.9 NA	+7.3 NA	Compa	ny, a reg	ulated el	ectric util	ity that se	erves 618	3,000 cus	tomers	coal, 20	)%; gas,	13%; pi	urchased	39%. F	uel costs	: 40% c	of reve-
Avg. Indust. Capacity at	Peak (Ŵw)		NA NA 3392	NA NA 3751	NA NA 3568	ern Ör	egon (po	pulation:	1.4 millio	on). Most	of the o	Idaho an company':	s reve-				ciation ra ahl. Pres				
Peak Load, Annual Load % Change (	d Factor (%)		NA +2.7	NA +2.8	NA +2.4							vice area 27%; ind					1221 W 1221 W.			,	83702.
Fixed Charg	-	i onuj	313	334	419	We	thinl	s IDA	ACOR	RP w	ill e	ke ou	ıt a	Gen	eral 1	rate	cases	(GR	C) ai	e in	
ANNUA	L RATE		Pa	st Est'd	20-'22							uld n									
of change	iës	10 Yrs 3.5	% 2.	5%	' <b>26-'28</b> 4.0%	earr	nings-	per-s	hare	grow	7 <b>th.</b> 1	The u	tility	ulati	on/cus	stome	r grov	vth ha	as inc	rease	đ by
"Cash I Earning Dividen	IS	4.0 4.0 8.5	% 4.	0%	4.5% 5.0% 6.0%							year wth ii									
Book V		5.0	% 0. % 4.	5%	4.0%	servi	ice are	ea ano	l high	ner ele	ectric	rates s. The	from	Wha	t's m	ore,	growt	h in	the	comp	any's
Cal- endar			EVENUES( Sep.30		Full Year	ter c	of whi	ch are	e tied	to the	e reco	upme	nt of	tric o	leliveı	ry rat	es wil	l almo	ost as	sured	ly be
2020	291.0	318.8	425.3	315.6	1350.7							sion v s earr									
2021 2022	316.1 344.3	360.1 358.7	446.9 518.0	335.0 422.9	1458.1 1644.0	outlo	ook of	f \$4.9	5 to	\$5.15	ó a s	hare.	The	seeki	ng ar	n incr	ease i	in the	10%	neig	hbor-
2023 2024	429.7 <b>440</b>	360 370	550 560	410.3 430	1750 1800							3 net on a							on's (	<b>FRC</b>	nling
Cal-	E/	ARNINGS F	ER SHAR	ΕA	Full	nific	antly	rising	debt	load,	whic	h is g	row-	IDA	CORF	<b>'</b> sha	res r	ank			
endar 2020	Mar.31 .74	Jun.30 1.19	Sep.30 2.02	Dec.31 .74	Year 4.69	and	clean	-energ	gy ini	itiativ	es. A	repro tai	nini-	lent	elect	ric u	tility	that	bene	efits	from
2021	.89	1.38	1.93	.65	4.85	mun this	n, the	pace That	of ear	nings tainly	gain	s will a posi	slow	abov	e-aver	age p	opula ving	tion g local	rowth	and	a vi- Thic
2022 2023	.91 1.11	1.27 <b>1.30</b>	2.10 <b>1.99</b>	.83 <b>.75</b>	5.11 <b>5.15</b>	but t	these	sorts	of pro	jects a	are th	le Îifel	olood	coup	led w	ith th	ne gre	een-en	ergy	initia	tives
2024	1.10	1.35	2.10	.85	5.40	of u grow	tilities thei	s, as r earr	it's h nings	ow tł over 1	ney a time.	re abl IDAC	le to ORP	in its of 59	s state %-6%	e terri earnii	tories	, shou ains. (	Id lea n ave	d to y rage	years The
Cal- endar	Mar.31		DENDS PA Sep.30		Full Year	will	be ab	le to :	recoup	o som	e of it	ts inve	ested	probl	lem fo	r util	ity in	vestor	s is tl	nat pi	remi-
2019 2020	.63 .67	.63 .67	.63 .67	.67 71	2.56 2.72	capit	ed for	snort mulai	orde: c pric	r 1ron ing m	n the lechar	afore isms.	men- The	um o valua	compa ations.	. At t	onten the re	come	with quote,	prer IDA	nium 's to-
2021	.71	.71	.71	.71 .75	2.88	comp	bany	will a	ilso b	e see	king	rate 1 3 in I	relief	tal	return	n pot	ential	is t	wo p	percer	
2022 2023	.75 .79	.75 .79	.75	.79	3.04					comin			uano		ony $J$ .			group		an. / 21, 2	2023
	d EPS.	Earnings	may not	sum due	to reiny	/estment	plan ava	ilable. †	Sharehol	der in-	on comm	on equity	in '12: 1	0% (imp	uted); Re	g- Co	mpany's	Financia	I Strengt	h	A+

(A) Diluted EPS. Earnings may not sum due to rounding. Next earnings report due early August. (B) Dividends historically paid in late February, May, August, and November.
 Dividend
 Dividend
 (C) Incl. intangibles. In ulatory Climate: Above Average.
 (C) Incl. intangibles. In ulatory Climate: Above Average.
 (C) Rate base: Net original cost. Rate allowed

lennon	0 aty 21, 2020
Company's Financial	Strength A+
Stock's Price Stabilit	<b>y</b> 100
Price Growth Persist	ence 70
Earnings Predictabili	ty 100

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NOF	<b>?TH</b>	WES	STER				R	ecent Rice	56.16	D P/E RATI	o <b>16</b> .	3 (Traili Media	ng: 17.2) an: 17.0)	RELATIV P/E RATI	0.9	4 DIV'D YLD	4.6			E <sup>15</sup>	of
INELIN		B Lowered		High:	38.0 33.0	47.2	58.7 42.6	59.7 48.4	63.8 52.2	64.5 55.7	65.7 50.0	76.7 57.3	80.5 45.1	70.8 53.2	63.1 48.7	61.2 53.4			Target	Price	
SAFETY	2	2 Raised 7/	/27/18	LEGEI	-				02.2		00.0	0.10		00.2		0011			2026	2027	202
ECHNIC		Raised 7/	/21/23	Options:	elative Pric Yes	e Strength															$\pm 96$
	5 (1.00 =	,	Dango	Shaded	area indic	ates recess	ion					սոսոս									
o-won ow-Hig	-	get Price	•				ار ایرالیس	Ч <sub>11-11</sub> -1-1-	սուս,	00 <sup>0</sup> 000	Inn11111			II	ոսուրեր	01 <sup>0</sup> 0●					48
50-\$76		(10%)	to mia,		اسبينين	, <u></u>															+40 32
2020	6-28 PR	OJECTIC		••••	••••••••			••••••	•												-24
		Gain	nn'l Total Return	••••		*********	*******	••••	·	********	••••••		••••								<u> </u> 10
igh Sw	80 (- 60	+40%) (+5%)	13% 6%											••••	•••• <sup>•••</sup> ••••	•.•••		% то	I I. Retur	N 6/23	-1
nstitut	tional E 302022	Decisior 402022	ns 1Q2023																	L ARITH.*	
o Buy Sell	176 97	169 115	135	Percen shares	20 -					lu d	սիս		II.					1 yr. 3 yr.	0.7 18.5	16.5 58.6	F
ld's(000)	56117	57154	58097	traded	10 -													5 yr.	21.1	48.6	
<b>007</b> 30.79	2008 35.09	-	<b>2010</b> 30.66	<b>2011</b> 30.80	2012 28.76	2013 29.80	2014 25.68	2015 25.21	2016 26.01	2017 26.45	2018 23.81	2019 24.93	2020 23.70	2021 25.38	2022 24.74	2023 25.80	2024 26.15	© VALI Revenue	JE LINE P	JR. LLC	26-2 28
3.70	4.40		4.76	5.42	5.18	5.45	5.39	5.92	6.74	6.76	6.96	7.07	6.86	6.92	6.46	6.80	7.20		low" per s	sh	8.
1.44	1.77	2.02	2.14	2.53	2.26	2.46	2.99	2.90	3.39	3.34	3.40	3.53	3.21	3.50	3.29	3.45	3.60		s per sh <sup>A</sup>		4
1.28	1.32	1.34 5.26	1.36 6.30	1.44 5.20	1.48 5.89	1.52 5.95	1.60 5.76	1.92 5.89	2.00	2.10	2.20 5.64	2.30 6.26	2.40 8.02	2.48 8.03	2.52 8.62	2.56 8.50	2.60 7.75		cl'd per s ending p		
21.12	21.25		22.64	23.68	25.09	26.60	31.50	33.22	34.68	36.44	38.60	40.42	41.10	43.28	44.61	47.50	48.50	Book Va	lue per sl	1 <sup>C</sup>	52
38.97 21.7	35.93		36.23	36.28	37.22	38.75	46.91	48.17	48.33	49.37	50.32	50.45	50.59	54.06	59.74	62.00	62.00		n Shs Out 'I P/E Rat		62
1.15	13.9 .84	11.5	12.9 .82	12.6 .79	15.7	16.9 .95	16.2 .85	18.4	17.2 .90	17.8 .90	16.8 .91	19.9 1.06	18.6 .96	17.4	17.3 .99	Bold fig Value	Line	-	P/E Ratio		1
4.1%	5.4%	5.7%	4.9%	4.5%	4.2%	3.7%	3.3%	3.6%	3.4%	3.5%	3.9%	3.3%	4.0%	4.1%	4.4%	estin	ates		'l Div'd Y		4
					1.4 maill	1154.5	1204.9	1214.3	1257.2	1305.7	1198.1	1257.9	1198.7	1372.3	1477.8	1600	1620	Revenue			1
		96.1 mill. <b>C</b> 6 mill. <b>L</b>				94.0 13.2%	120.7	138.4 13.7%	164.2	162.7 7.6%	171.1	179.3 1.6%	162.6	181.6	185.5	210 3.0%	225 6.0%	Net Prof	<u>, , , , , , , , , , , , , , , , , , , </u>		12
		nance leas				8.7%	8.9%	9.8%	4.3%	5.2%	3.4%	4.6%	6.0%	14.9%	18.5%	14.0%	13.0%		% to Net F	Profit	12
			,			53.5%	53.4%	53.1%	52.0%	50.2%	52.2%	52.5%	52.8%	52.2%	48.2%	47.5%	46.5%	-	m Debt F		48
nsion	Assets	s-12/22 \$4		)blig \$52	1.8 mill.	46.5% 2215.7	46.6% 3168.0	46.9%	48.0% 3493.9	49.8% 3614.5	47.8%	47.5% 4289.8	47.2%	47.8%	51.8% 5148.3	52.5% 5625	53.5% 5625		n Equity F pital (\$mi		52 6
d Stor	ck None	)				2690.1	3758.0	4059.5	4214.9	4358.3	4521.3	4700.9	4952.9	5247.2	5657.5	6000	6250	Net Plan		.,	6
		<b>x</b> 59,794,8	897 shs.			5.5%	4.8%	5.2%	5.9%	5.6%	5.2%	5.2%	4.6%	4.6%	4.5%	4.5%	5.0%		n Total C	•	5
of 4/2	21/23					9.1% 9.1%	8.2% 8.2%	8.6% 8.6%	9.8% 9.8%	9.0% 9.0%	8.8% 8.8%	8.8% 8.8%	7.8%	7.8%	7.0% 7.0%	7.0% 7.0%	7.5% 7.5%		n Shr. Eq n Com Ec		8 8
ARKE	T CAP:	\$3.4 billio	on (Mid C	Cap)		3.5%	3.8%	3.0%	4.1%	3.4%	3.2%	3.1%	2.0%	2.3%	1.7%	2.0%	2.0%	Retained	to Com	Eq	2
ECTR	IC OPE	RATING	STATIST 2020	ICS 2021	2022	61%	54%	65%	58%	62%	64%	64%	74%	71%	76%	74%	72%		s to Net F		
Change R	Retail Sales (I	(KWH)	-4.4 33526	+.7 31792	+3.7 34079				ern Corpor es electric	· ·	0			,		, ,	wind, 6 33% of re	,	0,	· · ·	
i. Indust. I nacity at F	Use (MWH) Revs. per K Peak (Mw)	.WH (¢)	NA NA	NA	NA	and No	orthwest,	serving 4	163,000 el	ectric cu	ustomers	in Monta	na and	tion rate	: 2.8%.	Has appr	roximately	y 1,500 e	employee	s. Board	i Ch
ak Load, V	Winter (Mw)		NA NA	NA NA	2073 NA				00 gas cus tric revenu								dent and 69th Stre				
Change C	l Factor (%) Customers (y	rr-end)	+1.2	+1.6	+1.5				trial, 5%;					phone:	605-978-2	2900. Inte	ernet: ww	w.northw	vesternen	ergy.cor	n.
ed Charg	e Cov. (%)		247	245	219				is st			0					ating				
	L RATE: (per sh)	S Past 10 Yrs.		st Est'd	1 '20-'22 '26-'28				a sett ic and								e <b>y to</b> ite bas				
evenu ash F	iës 🧉	-2.0 3.0	% -1.	0%	2.5% 3.5%	in M	Ionta	na. T	o recap	): in (	early A	April,	the	of as	sets f	or wh	nich a	utilit	y is a	allowe	ed
Irning	S	3.5 5.5	% 1. % 1.	0% 0%	3.5% 2.0% 3.5%				ut an a na Coi								ic retu eted a				
videno ok Va		6.0	% 4. % 4.	5%	2.0 % 3.5%	Mon	tana I	Large	Custor	mer (	Group,	and	Wal-	mega	watt	gas-fi	red p	ower	plant	in S	ou
al-		RTERLY RE			Full				settlei Mont								ne pot ite dov				
4 a	Mar.31 335.3	269.4	Sep.30 280.6	313.4	Year 1198.7	Com	missio	on (N	(IPSC)	for	the 1	regula	tory	millio	on, 17	75-mw	facil	ity in	Mon	tana	w
	400.8	298.2	326.0	347.3	1372.3				ation. nterim								ional evoke				
20 21	394.5	323.0 <b>350</b>	335.1 <b>360</b>	425.2 <b>435.5</b>	1477.8 <b>1600</b>				er, to a					quali	ty per	mit a	evoke s part	ofa	lawsu	it file	d a
20 21 22	454.5	355	365	440	1620	begii	n the	reco	upmen	t of	some	elev	ated	an e	nviroi	nment	al gr	oup.	In J	une,	$^{\mathrm{th}}$
20 21 22 23	454.5 <b>460</b>				Full				agreed∙ l elect								that d limina				
20 21 22 23 24 al-	460 EA	ARNINGS P			-	reve	nues	by \$6	7.4 mi	llion	and a	\$14.1	mil-	sider	clima	ite im	pacts	from	green	house	g
20 21 22 23 24 al- dar	460 EA Mar.31	Jun.30		1.21	3.21			otirrol	v The	ose le	vels a						175-m	w gas	s-fired	plan	t :
)20 )21 )22 )23 )24 )24 dar )20 )21	460 EA Mar.31 1.00 1.24	Jun.30 .43 .59	.58 .70	1.21 .97	3.21						izod m	oturn	gnn			- T D D	como	on lin			
)20 )21 )22 )23 )24 al- dar )20 )21 )22	460 EA Mar.31 1.00 1.24 1.08	Jun.30 .43 .59 .58	.58 .70 .47	.97 1.16	3.50 3.29	cated	d on t	the sa	ame au 9.659	athor							come s not	on lin stan	e in 2	024.	ti
)20 )21 )22 )23 )24 dar )20 )21 )22 )22 )22	460 EA Mar.31 1.00 1.24	Jun.30 .43 .59	.58 .70	.97	3.50	cated equit 9.55	l on t ty, na % for	the sa amely gas, f	ame au 9.659 that w	uthor % fo ere la	r ele ast ag	ctric reed ι	and 1pon	This to in	issue dusty	e doe y pee	s not rs in	stan rega	e in 2 d out rds t	024. <b>rela</b> o ani	nu
020 021 022 023 024 024 024 020 021 022 023 024 024 024 023	460 Mar.31 1.00 1.24 1.08 1.10 1.15 QUART	Jun.30 .43 .59 .58 .59 .62 TERLY DIVI	.58 .70 .47 .60 .63 DENDS PA	.97 1.16 <b>1.16</b> <b>1.20</b> ID <sup>B</sup> ■ †	3.50 3.29 3.45 3.60 Full	cated equit 9.55 in 2	d on t ty, na % for 015 a	the sa amely gas, f nd 20	ame au 9.659 that w 017. A	uthor % fo ere la .ssum	r ele ast ag ang tl	ctric reed u ne MI	and upon PSC	This to in total	issue dusty retu	e doe y pee urn p	s not rs in otent	stan rega ial.	ie in 2 d out rds t We t	024. <b>rela</b> o ani hink	nu th
020 021 022 023 024 cal- dar 020 021 022 023 024 cal- cal- dar	460 EA Mar.31 1.00 1.24 1.08 1.10 1.15 QUART Mar.31	Jun.30 .43 .59 .58 .59 .62 TERLY DIVI Jun.30	.58 .70 .47 .60 .63 DENDS PA Sep.30	.97 1.16 <i>1.16</i> <i>1.20</i> ID <sup>B</sup> ■ † Dec.31	3.50 3.29 <i>3.45</i> <i>3.60</i> Full Year	cated equit 9.559 in 29 signs have	d on t ty, na % for 015 a s off o s off o	the sa amely gas, f nd 20 on the en ab	ame au 9.659 that w 017. A agreen out tw	uthor % fo ere la ssum ment vo-thi	r elec ast ag ung tl , the u irds o	ctric reed u ne MI utility f wha	and upon PSC will at it	This to in total likeli the c	issue dusty retu hood ompai	e doe y pee urn p of a ny's g	s not rs in otent constr eneral	stan rega tial. ructive rate	d out d out rds to We the case i	024. <b>rela</b> <b>o ani</b> hink clusio is alre	nu th n eao
020 021 022 023 024 024 024 020 021 022 023 024 023 024 023 024 019 020	460 EA Mar.31 1.00 1.24 1.08 1.10 1.15 QUART Mar.31 .575 .60	Jun.30 .43 .59 .58 .59 .62 TERLY DIVI Jun.30 .575 .60	.58 .70 .47 .60 .63 DENDS PA Sep.30 .575 .60	.97 1.16 <b>1.16</b> <b>1.20</b> ID <sup>B</sup> • † Dec.31 .575 .60	3.50 3.29 3.45 3.60 Full Year 2.30 2.40	cated equif 9.55 in 2 signs have origi	d on t ty, na % for 015 a s off o gotto nally	the sa amely gas, t nd 20 on the en ab filed :	ame au 9.659 that w 017. A agree out tw for in i	uthor % fo ere la ssum ment vo-thi its ge	r electast ag uing tl the u irds o eneral	ctric reed u ne MI utility f what rate o	and upon PSC will at it case.	This to in total likeli the c large	issue dusty retu hood ompai ly ref	e doe y pee urn p of a ny's ge lected	s not rs in otent constr eneral in th	stan rega tial. ructive rate e rece	d in 2 d out rds to We t e cond case i ent sh	024. <b>rela</b> <b>o an</b> hink clusio s alre are p	nu th n eac oric
020 021 022 023 024 Cal- 020 021 022 023 024 Cal- 0dar 019	460 EA Mar.31 1.00 1.24 1.08 1.10 1.15 QUART Mar.31 .575	Jun.30 .43 .59 .58 .59 .62 TERLY DIVI Jun.30 .575	.58 .70 .47 .60 .63 DENDS PA Sep.30 .575	.97 1.16 1.16 1.20 ID <sup>B</sup> ■ † Dec.31 .575	3.50 3.29 <b>3.45</b> <b>3.60</b> Full Year 2.30	cated equif 9.559 in 2 signs have origi Impo	d on t ty, na % for 015 a s off o gotto nally ortant	the sa amely gas, f nd 20 on the en ab filed t ly, No	ame au 9.659 that w 017. A agreen out tw	athor % fo ere la ssum ment vo-thi its ge stern	r ele ast ag ing tl , the ι irds o eneral woul	ctric reed u ne MI utility f wha rate o d also	and upon PSC will at it case.	This to in total likeli the c large Ther	issue dusty retu hood ompar ly ref e are	e doe y pee urn p of a ny's gu lected utiliti	s not rs in otent constr eneral	stan rega tial. ructive rate e rece ch a co	e in 2 d out rds t We t e cond case i ent sh	024. <b>rela</b> <b>o ann</b> hink clusio is alre are p able	nu th n eac oric div

 (A) Diluted egs. Excl. nonrec. gains/(losses):
 due July 26th. (B) Div'ds paid in late Mar., '12, 40¢; '15, 27¢; '18, 52¢; '19, 45¢; '20, (15¢); '21, 10¢; '22, (4¢); 1Q '23, (5¢). '20 EPS
 due July 26th. (B) Div'ds paid in late Mar., June, Sept. & Dec. ■ Div'd reinvest. plan avail.
 (C) Incl. defd in SD in '15: none specified; in NE in '07: charges. In '22: \$17.98/sh. (D) In mill. (E) Rate
 10.4%. Regulatory Climate: Below Average.

 lowed on com. eq.
 Company's Financial Strength
 B++

 n'17 (gas): 9.55%;
 Stock's Price Stability
 90

 ed; in NE in '07:
 Price Growth Persistence
 40

 Below Average.
 Earnings Predictability
 90

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dge energy c	ORP	) . NYSI	E-OGE	RE	ecent Rice	34.1	6   <sup>p/e</sup> Ratio	<b>15</b> .	<b>B</b> (Trailin Media	ng: 15.6 an: 18.0	RELATIVE P/E RATIO	.95	DIV'D YLD	4.9	% V	ALUI LINE	Ë <sup>10</sup>	of
MELINESS 3 Raised 8/18/23	High: Low:	30.1 25.1	40.0 27.7	39.3 32.8	36.5 24.2	34.2 23.4	37.4 32.6	41.8 29.6	45.8 38.0	46.4 23.0	38.6 29.2	42.9 33.3	40.4 33.4				Price	
AFETY 2 Lowered 12/18/15	LEGEN		••													2020	2021	20
ECHNICAL 3 Raised 7/28/23	div •••• Re	vided by Intel elative Price	terest Rate															<u> </u>
TA 1.05 (1.00 = Market) B-Month Target Price Range	2-for-1 sp Options:	Yes	ates recessi	ion														
w-High Midpoint (% to Mid)										1								48
0-\$50 \$40 (15%)		<u> </u>	այնու,	րոսոր	101, 101,	لسين.	J <sup>1.</sup>	in in the second second	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 	ليرينين	יעו <mark>ן ו</mark> יוויוי,	1.11.					
2026-28 PROJECTIONS Ann'l Total		հայտե				T				ll	-							+2
Price Gain Return gh 50 (+45%) 14%		• ••••••••		*********														+1
w 35 (Nil) 6%					••••••	• • • • • • • • • • •	••••••••		***********	···.   <sup>··</sup> ···	1				% TO	Retur	N 7/23	-1
stitutional Decisions 4Q2022 1Q2023 2Q2023	Percent	∣ t 18 <del>–</del>								<u> </u>			····.			STOCK	L ARITH.*	
Buy 262 183 174 Sell 155 211 216	shares	12 - 6 -													1 yr. 3 yr.	-8.0 26.1	11.5 59.2	F
I's(000)         139192         139715         134247           I's(000)         2008         2009         2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		2023	2024	5 yr. © VALL	22.8 Je line Pi	52.2	26-2
0.68 21.77 14.79 19.04	19.96	18.58	14.45	12.30	11.00	11.31	11.32	11.37	11.15	10.61	18.26	16.86	17.00	17.50	Revenue			19
2.392.402.693.011.321.251.331.50	3.31	3.69 1.79	3.46 1.94	3.40	3.23 1.69	3.31 1.69	3.34 1.92	3.74 2.12	4.02 2.24	4.03 2.08	4.44 2.36	4.56 2.25	4.60 2.00	4.65		ow" per s		6 3
1.32         1.25         1.33         1.50           .68         .70         .71         .73	1.73 .76	.80	.85	1.98 .95	1.09	1.16	1.92	1.40	1.51	2.06	1.63	1.64	2.00 1.66	2.15 1.78	Div'd De	s per sh 4 cl'd per s		1
3.04 4.01 4.37 4.36	6.48	5.85	4.99	2.86	2.74	3.31	4.13	2.87	3.18	3.25	3.89	5.25	4.75	4.75	Cap'l Sp	• •		4
0.16 10.14 10.52 11.73 0.60 187.00 194.00 195.20	13.06 196.20	14.00 197.60	15.30 198.50	16.27 199.40	16.66 199.70	17.24 199.70	19.28 199.70	20.06 199.70	20.69 200.10	18.15 200.10	20.27 200.10	21.95 200.20	22.25 200.20	23.10 200.20		lue per sh n Shs Out		20
3.8 12.4 10.8 13.3	14.4	15.2	17.7	18.3	17.7	17.7	18.3	16.5	19.0	16.2	14.3	17.2	Bold figu		Avg Ann	'I P/E Rat	io	
.73 .75 .72 .85 8% 4.5% 5.0% 3.7%	.90 3.1%	.97 2.9%	.99 2.5%	.96 2.6%	.89 3.5%	.93 3.9%	.92 3.6%	.89 4.0%	1.01 3.5%	.83 4.7%	.77 4.8%	1.00 4.5%	Value estim			P/E Ratio 'I Div'd Yi		4
PITAL STRUCTURE as of 6/30		2.070	2867.7	2453.1	2196.9	2259.2	2261.1	2270.3	2231.6	2122.3	3653.7	3375.7	3400	3500	Revenue			. 3
al Debt \$4757.1 mill. Due in 5 Y Debt \$4339.0 mill. LT Interes			387.6	395.8	337.6	338.2	384.3	425.5	449.6	415.9	472.5	452.5	410	430	Net Profi	t (\$mill)		
interest earned: 4.3x)	ι <b>ι</b> φ100.7		24.9% 2.6%	30.4% 1.7%	29.2% 3.7%	30.5% 6.4%	32.5% 15.0%	14.5% 8.3%	7.4% 1.6%	13.2% 1.6%	11.5% 2.2%	12.0% 2.0%	12.0% 2.0%	12.0% 2.0%	Income T AFUDC 9		Profit	12 2
ses, Uncapitalized Annual ren	itals \$5.7	mill.	43.1%	45.9%	44.3%	41.1%	41.7%	42.0%	43.6%	49.0%	52.6%	49.8%	52.0%	52.0%	Long-Ter	m Debt R	latio	50
sion Assets-12/22 \$486.0 mill			56.9% 5337.2	54.1% 5999.7	55.7% 5971.6	58.9% 5849.6	58.3% 6600.7	58.0% 6902.0	56.4% 7334.7	51.0% 7126.2	47.4% 8552.7	52.4% 8962.0	48.0% 9400	48.0% 9750	Common Total Car	Equity R		50 10
	<b>Oblig</b> \$502	2.9 mill.	6672.8	6979.9	7322.4	7696.2	8339.9	8643.8	9044.6	9374.6	9832.9	10546.8	10830	11000	Net Plan	•	")	12
			8.6%	7.8%	6.9%	7.0% 9.8%	7.0%	7.3%	7.1%	6.9%	6.4%	5.9% 11.0%	6.5%	6.5%	Return o		•	7
nmon Stock 200,287,364 shs.			12.8% 12.8%	12.2% 12.2%	10.2%	9.8%	10.0% 10.0%	10.6% 10.6%	10.9% 10.9%	11.5% 11.5%	11.6% 11.6%	11.0%	12.0% 12.0%	12.0% 12.0%	Return o Return o	•	-	13 13
RKET CAP: \$6.8 billion (Mid C	.,		7.3%	6.5%	4.0%	3.3%	3.5%	3.8%	3.6%	2.8%	3.6%	3.0%	4.5%	4.5%		to Com I	•	5
CTRIC OPERATING STATIST 2020	1CS 2021	2022	43%	47%	61% E Energ	67%	64%	64%	67%	76%	69%	73% 0%. Gene	81%		All Div'd			ad a
ange Retail Sales (KWH) -4.9 ndust. Use (MWH) NA	+2.6 NA	+8.3 NA	ma Gas	s and Ele	ectric Con	npany (O	G&E), wh	ich supp	lies elect	ricity to	purchas	ed, 48%.	Fuel cos	ts: 58%	of revenu	ues. '22 i	reported	l de
ndust. Revs. per KWH (¢) 4.40 city at Peak (Mw) NA	7.68 NA	NA NA			ners in C as (8%);							ate (utility d Chief E						
Load, Summer (Mw) 6437 al Load Factor (%) NA	NA NA	NA NA	Transfe	er's limite	ed partne	ership un	its. Elect	ric rever	ue break	down:	Oklahon	na. Addre	ss: 321	North H	larvey, P.	O. Box 3	321, Ok	laho
ange Customers (yr-end) +1.1	+1.4	NA	OGE		; comme nergy	-	%; indust itility		o; oiitieid, Ibsidi		-	73101-03 its l					-	
Charge Cov. (%) 326	336 st Est'd	335			nergy	יש נ	uuuuy	່ວເ	ibsiui	•								
	a Latu				activ	ve fr					growt	h fore	ecast	of 5%	o-1% a	innua		ida
IUAL RATESPastPastange (per sh)10 Yrs.5 Yr	rs. to'	'26-'28	stan	dpoir	activ nt. In	v <b>e fr</b> June	, Okla	ιhomε	Gas	and	on or	iginal					onsol	
IUAL RATES Past Past ange (per sh) 10 Yrs. 5 Yr enues -3.0% 5.	rs. to' .0% .5 .0% .7	' <b>26-'28</b> 5.5% 7.0%	<b>stan</b> Elect place	<b>dpoir</b> tric (C e two	<b>activ</b> nt. In DG&E aging	ve fr June ) fileo powe	, Okla l for r gene	thoma appro eratio	Gas val to n unit	and re- s at	on or ed ba Earn	iginal sis. <b>ings</b>	2021 grov	guida 7 <b>th c</b>	ance o ought	nac to	conti	'nι
IUAL RATES         Past         Past           ange (per sh)         10 Yrs.         5 Yr           enues         -3.0%         5.           sh Flow"         2.5%         5.1           nings         3.0%         4.           dends         7.5%         6.	rs. to 0% 5 5% 6 5% 6	' <b>26-'28</b> 5.5% 7.0% 6.5% 3.0%	<b>stan</b> Elect place the	dpoir tric (C e two Horse	<b>activ</b> nt. In OG&E aging eshoe	ve fr June ) fileo powe Lake	, Okla l for r gene pow	thoma appro eratio er p	Gas val to n unit lant.	and re- s at The	on or ed ba Earn over	iginal sis. <b>ings</b> <b>the</b>	2021 grow next	guida z <b>th c</b> ; <b>few</b>	ance o ought v yea	nac to ( urs. V	<b>conti</b> Ne t	hiı
ULAL RATES         Past         Past           ange (per sh)         10 Yrs.         5 Yr           renues         -3.0%         5.1           nings         3.0%         4.           dends         7.5%         6.           k Value         4.0%         1.	rs. to 0% 2 5% 6 5% 6 5% 2 5% 2	' <b>26-'28</b> 5.5% 7.0% 6.5% 3.0% 5.5%	stan Elect place the units years	dpoir tric (C two Horse s have s, and	activ nt. In OG&E aging eshoe e bee d are	ve fr June ) fileo powe Lake en in the o	, Okla l for r gene pow servie ldest	homa appro eratio er p ce for in th	Gas val to n unit lant. c over le util	and re- is at The 60 ity's	on or ed ba <b>Earn</b> <b>over</b> OGE' utility	iginal sis. <b>ings</b> <b>the</b> s pros y will	2021 grow next spects impro	guida z <b>th c</b> z <b>few</b> s as ove, a	ance o ought v yea a pur ind ra	on a c to o urs. V re-play te reli	<b>conti</b> We ti y ele ief sh	hii cti iou
UQL RATES         Past         Past           ange (per sh)         10 Yrs.         5 Yr           venues         -3.0%         5.1           sh Flow"         2.5%         5.1           nings         3.0%         4.           dends         7.5%         6.           k Value         4.0%         1.           I-         QUARTERLY REVENUES (           ar         Mar.31         Jun.30	rs. to 0% 5% 5% 5% \$ \$ \$ mill.) Dec.31	26-28 5.5% 7.0% 6.5% 3.0% 5.5% Full Year	stan Elect place the units years gener	dpoir tric (C e two Horse s have s, and ration	activ nt. In DG&E aging eshoe re bee d are n fleet.	ve fr June ) fileo powe Lake en in the o	, Okla l for r gene pow servie ldest E alse	thoma appro eratio er p ce for in th o plar	Gas val to n unit lant. over e util ns to f	and re- s at The 60 ity's ile a	on or ed ba <b>Earn</b> <b>over</b> OGE' utilit; also	iginal sis. <b>ings</b> <b>the</b> s pros y will help b	2021 grow next spects impro	guida z <b>th c</b> z <b>few</b> s as ove, a the b	ance o <b>bught</b> <b>v yea</b> a pur a pur of ra-	on a c to c urs. V re-play te reli line	<b>conti</b> We t y ele ief sh over	hii ctr iou th
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Oblig \$416.7 ml, mnon Slock 41.710.521 shs.         924.4 (107.13         105.10         117.64         117.24         204.3         212.46         221.7         255.6         Total Early 10.2           mmon Slock 41.710.521 shs.         mmon Slock 41.710.521 shs.         5.8         6.8%         6.5%         6.5%         7.5% <t< td=""><td>ases,</td><td>Uncap</td><td>italized A</td><td>nnual ren</td><td>itals \$5.0</td><td>mill.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	ases,	Uncap	italized A	nnual ren	itals \$5.0	mill.																
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BUSINESS: Other Tail Corporation is the parent of Other Tail Power Mater Beak (MMM)costs: 10% of revenues. Also has operations in manufacturing manufacturing, which supplies electricity to 133,000 customers. Walk Beak Erek (MMM)costs: 10% of revenues. Also has operations in manufacturing, has a supplication of the parent of Other Tail Power company, which supplies electricity to 133,000 customers. Walk Beak Erek (MMM)costs: 10% of revenues. Also has operations in manufacturing, has a supplication of the parent of Other Tail Power commercial & later supplication of the parent of Other Tail Corporation revenues. Has a supplication of the parent of the p				•	.,				1				1		1							
<ul> <li>The function of the performance of the</li></ul>						2022																
Water Rev Water Rev Lind Faddref (%) MANA NA<	g. Indust.	Use (MWH	I) í		NA		Compa	ny, whic	ch suppl	ies elec	tricity to	133,000	) custom	ners in	plastics	(72% of	'22 opera	ating inc	ome). '22	deprec.	rate: 3.0	%. ł
Charler Mark and Commercial & farms, 36%; industrial, 30%; other, 2%. Generating appe Carkings (mail and the for the formation for the formation for the footom line to wind up in a range of \$1.95 persist for the footom line to wind up in a range of \$5.70-\$6.00 a share, from the initial mark state is 2.5% at 0.5%	bacity at F	Peak (Mw)	. ,	NA	NA	NA																
Compared with to the product of the propertiesAust not support to the propertiesOtter Tail Corporation raised its earn- image per all to the propertieswill continue to perform well in the ne term due to a number of projects in devi opported results. Profits of \$1.95 new to the bottom line to wind up in a range of the bottom line to wind up in a range of \$5.70-\$6.00 a share, from the initial guidance range of \$4.55-\$4.85 per share.will continue to perform well in the ne term due to a number of projects in devi opported results. Profits of \$1.95 new to the bottom line to wind up in a range of \$5.70-\$6.00 a share, from the initial guidance range of \$4.55-\$4.85 per share.will continue to compress movi time to earnings, and grew 4% versus the profits will likely decline in coming years to the bottom line to wind of 2022. Even more, the profits will likely decline in coming years to a 234.7 192.8 235.8 226.8 890.1 3333.9 1337.7 320 293.2 1290 233 233.1 1026 12.3 203 210 200 1250Full term due to a number of projects in devi term due to a number of projects in devi to a share from the initial guidance range of \$4.55-\$4.85 per share.1274.9 400.0 383.3 90.14 1400. 2 374.3 400.0 383.9 01.4 1400. 2 30.2 30 210 200 1250Full term due for PVC pipe continuing to drop profits will likely decline in coming years as conditions normalize within the utility's profits will likely decline in coming years term as a conditions normalize within the utility's profits will likely decline in coming years term as conditions normalize within the utility's profits will likely decline in coming years term as aconditions normalize within the utility's profits will likely decline in coming years term as conditions normalize within the utility's profits will likely decline in coming years<	nual Load	Factor (%	)	NA	NA	NA	comme	rcial & fa	arms, 36	%; indus	strial, 309	%; other,	2%. Gen	erating	cade St	., P.O. B	ox 496, F	Fergus F	alls, Minr			
<ul> <li>Margedrift (M) 400</li> <li>MALR ARES Past Ford 20-22 ange (persh) 10 Yrs. by 26-28 eneruses -1.0% 4.0% 5.0%</li> <li>Margedrift (M) 500</li> <li>Margedrift (M) 500&lt;</li></ul>	Change C	ustomers	yr-end)	NA	NA		-						-							oll in	the	no
ange (persh)10 Yrs.5 Yrs.to 28-28enves-1.0%4.0%5.0%sh Flow"7.5%9.5%h Flow"7.5%4.0%ande (persh)1.4%4.5%dends2.5%4.0%dends2.5%4.0%th Karall1.4%u1.4%4.6%v2.3%2.6%dends2.5%6.0%dends2.5%6.0%dends2.5%6.0%dends2.5%6.0%dends2.5%1.6%dends2.5%1.6%dends2.5%1.6%dends2.5%1.6%dends2.5%1.9%dends2.5%1.9%dends2.3%1.9%dends2.3%1.9%dends2.3%1.9%dends1.2%1.9%dends1.2%1.9%dends1.2%1.1%dends1.2%1.2%dends1.2%2.34dends1.4%2.34dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4%dends1.4% <td>v</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>• -</td> <td></td>	v									• -												
sh Flow" 7.5% 9.5% 14.5% 4.5% dends 2.5% 14.5% 4.5% 7.0% k Value 3.5% 6.0% 8.0% trutate of \$1.50. Management now looks for the bottom line to wind up in a range for the bottom line to wind up in a range of \$5.70-\$6.00 a share, from the initial mar. Mar31 Jun30 Sep.30 Dec.31 Full 2 2617 2265 3163 3332 11920 12 2617 2265 3163 3332 11460.2 3 339.1 337.7 320 293.2 1290 14 2817 2856 3163 3322 1290 14 287 303 30 290 1220 14 287 4320 330 310 290 1220 14 287 10.1 1.26 1.23 1.31 1.91 1.26 1.23 1.49 1.95 1.40 .86 5.70 \$5.70 \$6.00 a share performed stronger than expected in the June quarter, despite demand for PVC pipe continuing to drop noticeably. Accordingly, this segment's profits will likely decline in coming years as conditions normalize within the utility's a 1.49 1.95 1.40 .86 5.70 3.5 .35 .35 1.40 9 .35 .35 .35 .35 1.40 9 .35 .35 .35 .35 1.40 9 .37 .37 .37 .37 .37 .37 1.48 13 .39 .39 .39 .39 .39 1.56 14 00ARTERLY DIVIDENDS PAD B*= Full ar Mar31 Jun30 Sep.30 Dec.31 Year 1 .73 1.01 1.26 1.23 1.49 1.50 1.00 .70 3.50 14 00 3.7 .37 .37 .37 .37 1.48 13 .49 1.95 1.40 .86 5.70 3.5 .35 .35 1.40 19 .35 .35 .35 .35 1.40 19 .37 .37 .37 .37 .37 1.48 17 .39 .39 .39 .39 .39 1.56 1.47 19 .35 .35 .35 .35 .34 1.48 17 .39 .39 .39 .39 .39 1.56 1.47 10 .37 .37 .37 .37 .37 1.48 17 .39 .39 .39 .39 .39 1.56 1.47 10 .37 .37 .37 .37 1.48 13 .497 .4375 .437	change	(per sh)	10 Yrs.	. 5 Yr	rs. toʻ	'26-'28												likob	u doo	lina 1	otia	<b>.</b>
dends2.5%4.0%7.0%k Value3.5%6.0%8.0%7.0%iGuardian1.0%1.0%1.0%1.0%1.0%iWaraiiJun.30Sep.30Dec.31Full Yeari23.47192.8235.6226.8890.1i261.7225.6316.3332.21196.8i20.3303102901220i20.3303102901220i4.00.2293.21290iEARNINGS PER SHARE A ar Mar31Full YeariMar31Jun.30Sep.30Dec.31i1.722.052.011.00i7.00703.50i1.722.052.01i1.007.00i1.007.00i1.001.00i1.007.00i3.5035i1.951.40i3.5335i1.40i3.5335i1.40i3.5335i1.40i3.5335i1.40i3.5335i1.56i3.4373.73i1.40i3.4373.37i1.40i3.5335i1.56i3.5335i1.56i3.	Cash F	low"	7.5	% 4. % 9.	0% 3 5% 3	5.5%																
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43203303102901250LEARNINGS PER SHARE A arFull YearFull YearFull Yeardemand for PVC pipe continuing to drop noticeably. Accordingly, this segment's profits will likely decline in coming years as conditions normalize within the utility's plastics division.This stock is trading above the hig end of our 3- to 5-year Target Price Range. While long-term capital appred ation potential is unattractive, short-ter prospects are more appealing. Indee these shares are ranked Above Average ( for Timeliness. Too, Otter Tail stock ha aforementioned PVC pipe prices have remained higher than anticipated, and are largely responsible for management's up- dated guidance range. Meanwhile, the stock's dividend yield of 2.1% is below the was positive. The share price is up more than 7% in value since our early June review. We also think the Electric segmentThis stock is trading above the hig end of our 3- to 5-year Target Price Range. While long-term capital appred ation potential is unattractive, short-ter prospects are more appealing. Indee these shares are ranked Above Average ( to outperform nearly all of i agents in the industry as of late. But the stock's dividend yield of 2.1% is below the 	022	374.9	400.0	383.9	301.4	1460.2												ion, c	ompar	ed to	\$195	m
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1.731.011.261.234.23Plastics division.11.722.052.011.006.78We have raised our 2023 earnings estimate by \$0.95, to \$5.70 a share. The aforementioned PVC pipe prices have remained higher than anticipated, and are largely responsible for management's updated guidance range. Meanwhile, the industry as of late. But the stock's dividend yield of 2.1% is below the stock's reaction to the earnings update to its long-term targ payout ratio of 60%-70% and a year review. We also think the Electric segmentprospects are more appealing. Indee to the seshares are ranked Above Average (the seshares are the seshares are ranked Above Average (the seshares a	dar )20						as co	onditio	ons no	rmali					ation	poter	ntial i	is una	attract	ive, s	hort-t	er
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4125       4125	020 021	.37	.37	.37	.37	1.48																
il, EPS, Excl. nonrec. gains (loss): '10, ot sum due to rounding. Next earnings report mill. (E) Rate all'd on com. eq. in MN in '22: Company's Financial Strength due early Nov. (B) Div'ds histor. pd. in early 9.48%; in ND in '18: 9.77%; in SD in '19: Stock's Price Stability 8	022	.4125	.4125				than	7%	in va	lue s	since	our e	arly .	June	grow	th rat	e of 54	%-7%			•	
; '11, 26¢; '13, 2¢; gains (losses) from   due early Nov. (B) Div'ds histor. pd. in early   9.48%; in ND in '18: 9.77%; in SD in '19:   Stock's Price Stability 8	023			gaine //	100) · '10	Inot							0			•		-		•		20.
ops.: '11, (\$1.11); '12, (\$1.22); '13, 2¢;   Mar., Jun., Sept., & Dec. = Div'd reinv. plan   8.75%; earned on avg. com. eq., '21: 19.2%.   Price Growth Persistence 8	¢); '11	, 26¢; '	13, 2¢; ga	ains (losse	es) from	due	early Nov	/. <b>(B)</b> Div	'ds histor	r. pd. in i	early	9.48%; ir	ו ND in 1	8: 9.77%	5; in SD ir	ı '19:	Sto	ck's Prie	ce Stabili	ty		8

8	
Company's Financial Strength	Α
Stock's Price Stability	85
Price Growth Persistence	80
Earnings Predictability	70

(44c), 11, 20¢, 13, 2¢, gains (tosses) from dide early NoV. (b) Div ds instol. bd. integraly dide early NoV. (b) Div ds instol. bd. integraly avail. (c) Incl. intang. In '22: \$4.10/sh. (D) In '8.75%; earned on avg. com. eq., '21: 19.2%. (© 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

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V	85	(+5%) Decisio	<u>6%</u> ns											••••••		•••••		% ТОТ	T. RETUR	N 6/23	-2
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.37	9.46	7.64	7.03	8.26	8.24	9.36	8.38	9.84	11.64	12.80	10.73	10.76	11.93	13.04	15.09	14.50	15.00	Cap'l Spe	ending p	er sh	1
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4.9	16.1	13.7	12.6	14.6	14.3	15.3	15.9	16.0	18.7	19.3	17.8	19.4	16.7	14.1	17.1	Bold fig		Avg Ann <sup>3</sup>	'I P/E Rat	tio	
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)ebt	\$7916.6	6 mill. L	Due in 5 \ .T Interes			406.1	397.6 34.2%	437.3 34.3%	442.0 33.9%	497.8 32.5%	511.0 20.2%	538.3	550.6 12.1%	618.7 14.8%	483.6 13.0%	470 11.0%	525 12.0%	Net Profi Income T			14
al Ini	terest C	overage:	2.9x)			10.0%	11.6%	11.8%	14.1%	13.9%	15.2%	9.3%	9.5%	10.1%	15.2%	14.0%	13.0%	AFUDC %	6 to Net F		12
ses,	Uncapi	italized A	nnual ren	itals \$18.	1 mill.	40.0% 60.0%	41.0% 59.0%	43.0% 57.0%	45.6% 54.4%	48.9% 51.1%	47.0% 53.0%	47.1% 52.9%	52.8% 47.2%	53.9% 46.1%	56.1% 43.9%	56.0% 44.0%	52.5% 47.5%	Long-Ter Common			56 44
sion	Assets	s-12/22 \$2	2829.5 mi <b>Ot</b>	ill. <b>blig</b> \$280	9.5 mill.	6990.9	7398.7	8046.3	8825.4	9796.4	9861.1	10263	11948	12820	13790	13950	14100	Total Cap	• ·	ll)	1
Stor	ck None	)				10889 7.1%	11194 6.4%	11809 6.4%	12714 6.0%	13445 6.1%	14030 6.2%	14523 6.3%	15159 5.5%	15987 5.8%	16854 4.5%	17475 4.5%	18200 5.0%	Net Plant Return of		ap'l	2
	n Stock 27/23	113,255	,998 shs.			9.7% 9.7%	9.1% 9.1%	9.5% 9.5%	9.2% 9.2%	9.9% 9.9%	9.8% 9.8%	9.9% 9.9%	9.8% 9.8%	10.5% 10.5%	8.0% 8.0%	7.5% 7.5%	8.0% 8.0%	Return or Return or			9
		\$9.2 billi	on (Mid C	Cap)		4.1%	3.5%	3.9%	3.5%	4.2%	3.9%	3.8%	3.5%	4.2%	1.7%	1.5%	1.5%	Retained			
CTF	RIC OPE	RATING	STATIST 2020	ICS 2021	2022	58%	62%	59%	62%	58%	60%	61%	64%	60%	78%	84%	78%	All Div'de			
ndust.	etail Sales ( Use (MWH)		+5.0 766	1 808	+4.4 849	ny for A	Arizona F	Public Se	est Capital rvice Com	pany (A	PS), whic	h supplie	s elec-	25%; nu	iclear, 24	%; coal,	20%; rer	12%. Ge newables,	12%; p	urchased	d, 1
ity at F	Revs. per K Peak (Mw)	. ,	7.62 9094	8.11 8726	9.20 8612				omers in m rea, the T									reported d ident & C			
l Load	Summer (Mv Factor (%) Sustomers (y	,	7660 45.5 +2.3	7580 45.9 +2.2	7587 48.1 +2.1				Arizona. [ ric revenu									St., P.O. nternet: w			
-	e Cov. (%)	i-ciu)	318	317	226		-		will			-	-					acle W			
IUA	LRATE		Pas	st Est'o	1 '20-'22				<b>year,</b> ı weak									red n also			
eñu		10 Yrs. 1.5	% 2.	0%	' <b>26-'28</b> 3.0%	signi	ficant	ly	higher	0	perati	ng	and	pansi	on in	thê	use	of aut	omat	ič pri	ici
ning den		5.0 4.5 4.0	% 5. % 3. % 5	5% 5% 5%	3.5% 2.5% 2.0%				xpense ffirmed									egulat nents :			
	alue	4.0	% 4.	0%	3.0%				\$3.95 ttom									rizona n fron			
- ar			VENUES ( Sep.30		Full Year	weat	her e	extrem	ies tha	it he	lped d	lrive e	elec-	state	regul	latory	comr	nissioi	n, wh	ich h	as
0	661.9	929.6	1254.5	741.0	3587.0				4%. Gr e subd						-		-	nd a o rm lin			
2	783.5		1469.9		3803.8 4324.4	retir	ement	t con	tributi	ons,	follow	ving	last	year's	s end	. A N	March	appea	als co	ourt d	leo
3	945.0 <b>965</b>	1110 1135		1060 1085	4625 4725	and	highe	er inte	n equit erest e	xpens	se are	expe	$\operatorname{cted}$	progr	ess to	wards	s high	ent foi ler allo	owabl	e retu	ırı
			ER SHAR		Full				year's									ellate the r			
		1.71	Sep.30 3.07	d.17	<b>Year</b> 4.87	likel	ihood	of hig	her ele	ectric	rates			missi	on ov	erster	ped it	ts bou	nds b	y pen	al
ar	.27	1.91	3.00 2.88	.24 d.21	5.47 4.26				ıding lp to r									or cus ipany			
ar O 1	.32	145	2.00 2.93	d.21 d.05	4.15	earr	nings	ром	relief	st l	ast y	ear.	Α	rates	based	l on a	n 8.99	% RÓE e has	C.		
ar 0 1 2 3	.32 .15 d.03	1.45 <b>1.30</b>		d 05	4 - 0		sure 0	n rate											nee		
ar 10 12 13 14	.32 .15 d.03 <i>.05</i>	1.30 1.40	3.10	<i>d.05</i> AID <sup>B</sup> ■	4.50	2024	, the		tion is										e pe	rforn	
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II- lar 20 21 22 23 24 II- lar 19 20 21 22	.32 .15 d.03 <i>.05</i> QUAR Mar.31	1.30 1.40 TERLY DIV Jun.30	3.10 IDENDS P/ Sep.30	AID <sup>B</sup> ■ Dec.31	Full Year 3.00	2024 early ing that (ROI	, the v 2022 under cut E) fro	2, the revisits a m 10	compa sed reg	uny h gulat l ret a nat	as beo ory pa urn o tionwi	en ope arame on eq de lov	erat- ters uity v of	amor outpe GRC PNW	ngst erform outco comp	utilit ied in ome. oares	ies. 7 antic At th unfav	Гhe st ipatior	e <b>pe</b> ock h n of a ent v to th	<b>rforn</b> las lil favor valuat le me	kel rat tion

(\$1.45); '17, 8¢; gains/(losses) from discont. ops.: '06, 10¢; '08, 28¢; '09, (13¢); '10, 18¢; '11, 10¢; '12, (5¢). '20 and '22 qty. EPS don't © 2023 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product. **Store** 22: \$17.54/sh. (**D**) In mill. (**E**) Rate base: Fair value. Rate allowed on common equity in '23: 8.9%. Regulatory Climate: Below Average. **Store** value. Rate allowed on common equity in '23: 8.9%. Regulatory Climate: Below Average. **Store** value. Rate allowed on common equity in '23: 8.9%. Regulatory Climate: Below Average. **Store** value. Rate allowed on common equity in '23: 8.9%. Regulatory Climate: Below Average. **Store Store * 

Stock's Price Stability 90 Price Growth Persistence 45 Earnings Predictability 95

PORT	LAN	D GE	NER/		<u>(SE-po</u>	R	ecent Rice	46.2		<u>• 17.</u>	1 (Iraili Media	ng: 16.1 an: 18.0	P/E RATI	5 <b>0.9</b>	9 DIV'D	4.2		ALUI		
		ered 7/21/23	High: Low:	28.1 24.3	33.3 27.4	40.3 29.0	41.0 33.0	45.2 35.3	50.1 42.4	50.4 39.0	58.4 44.0	63.1 32.0	53.1 40.8	57.0 41.6	51.6 44.7				Price	
AFETY		ed 10/22/21		3.6 x Divide	ends p sh															128
ECHNICAL		ered 7/21/23	Options:	elative Pric Yes area indic	•															<u> </u>
,		ice Range	_																	80 64
	•	(% to Mid)						.'	السمين	L	,			┉╫╦┉╹	   III II ●					48
	\$54 (15%	)				' ليسبب	11. بىلىرىن	1111 <sup>111111111111111111111111111111111</sup>				1								40 32
2026-28	B PROJEC		_ 																	<u> </u>
Price		Ann'l Tota Return	 	· · · · · · · · · ·	••••			•••••••••		-		••								<u> </u>
gh 80 w 55	(+75% (+20%	5) 18% 5) 9%	••••		***	•••••••• <sup>••</sup> `	•••••	••		•••••		····					•/ то <sup>-</sup>	 T. Retur	  N  6/00	-12
stitution		sions 2022 1Q2023							I				•••	••••• •••	•••••		/010		/L ARITH.*	
Buy	193 2	07 184 57 173	shares							Hudi. H	սևստ		الالماليال				1 yr. 3 yr.	0.7 25.3	16.5 58.6	F
d's(000) 873	350 982	85 101190	liadeu													0004	5 yr.	30.3	48.6	
	008 20 7.89 23	09 2010 .99 23.67	-	2012 23.89	2013 23.18	2014 24.29	2015 21.38	2016 21.62	2017 22.54	2018 22.30	2019 23.75	2020 23.96	2021 26.80	2022 29.65	2023 28.85	2024 30.15	Revenue	JE LINE Pl s ner sh	UB. LLC	<u>26-2</u> 33
		.07 4.82		5.15	4.93	6.08	5.37	5.78	6.16	6.65	6.97	7.83	7.25	7.41	7.30	7.85		low" per s	sh	9.
		.31 1.66		1.87	1.77	2.18	2.04	2.16	2.29	2.37	2.39	2.75	2.72	2.74	2.70	3.00	•	s per sh A		3.
.93 7.28 6		.01 1.04 .25 5.97		1.08	1.10 8.40	1.12 12.87	1.18 6.73	1.26 6.57	1.34	1.43 6.67	1.52 6.78	1.59 8.76	1.70	1.79 8.58	1.88 13.65	1.98 10.00	Div'd De Cap'l Sp			2 10.
		.50 21.14		22.87	23.30	24.43	25.43	26.35	27.11	28.07	28.99	29.18	30.28	31.13	33.25	34.80	Book Va	lue per sh	۱ <sup>C</sup>	38.
		.21 75.32		75.56	78.09	78.23	88.79	88.95	89.11	89.27	89.39	89.54	89.41	89.28	97.00	99.50	Common			100
11.9 1 .63		4.4 12.0 .96 .76		14.0 .89	16.9 .95	15.3 .81	17.7	19.1 1.00	20.0 1.01	18.4 .99	22.3 1.19	16.6	17.7	18.2 1.06		ures are Line		'I P/E Rat P/E Ratio		1 1
		4% 5.2%		4.1%	3.7%	3.3%	3.3%	3.1%	2.9%	3.3%	2.8%	3.5%	3.5%	3.6%	estin	nates		'l Div'd Yi		3.
		RE as of 3/3			1810.0	1900.0	1898.0	1923.0	2009.0	1991.0	2123.0	2145.0	2396.0	2647.0	2800	3000	Revenue	. ,		3
Debt \$37		Due in 5 LT Intere	st \$146 m		137.0 23.2%	175.0 26.0%	172.0 20.7%	193.0 20.6%	204.0 25.3%	212.0 7.4%	214.0 11.2%	247.0	244.0 8.6%	245.0 15.2%	250 17.5%	295 17.5%	Net Prof	<u>, , , , , , , , , , , , , , , , , , , </u>		17.
	ill. finance st Covera				14.6%	33.7%	19.8%	16.6%	8.8%	8.0%	7.0%	9.7%	10.2%	8.6%	10.0%	9.0%		% to Net F	Profit	8.
ases, Un	capitalize	d Annual re	ntals \$4 m	nill.	51.3%	52.7%	47.8%	48.4%	50.1%	46.5%	51.3%	53.6%	56.8%	57.0%	56.0%	54.5%	-	rm Debt F		55.
nsion As	sets-12/2	<b>2</b> \$547 mill.	Oblig \$6	95 mill.	48.7% 3735.0	47.3% 4037.0	52.2% 4329.0	51.6% 4544.0	49.9% 4842.0	53.5% 4684.0	48.7% 5323.0	46.4%	43.2% 6265.0	43.0% 6459.0	44.0% 7330	45.5% 7600	Commor Total Ca	n Equity F pital (\$mi		45. 8
d Stock N	lone				4880.0	5679.0	6012.0	6434.0	6741.0	6887.0	7161.0	7539.0	8005.0	8465.0	9330	9850	Net Plan		,	108
		21,298 shs.			5.1%	5.8%	5.4%	5.6%	5.5%	5.8%	5.1%	5.6%	4.9%	4.9%	4.5%	5.0%	Return o		•	5.5
of 4/20/2	3				7.5% 7.5%	9.2% 9.2%	7.6%	8.2% 8.2%	8.4% 8.4%	8.5% 8.5%	8.3% 8.3%	9.5% 9.5%	9.0%	8.8% 8.8%	8.0% 8.0%	8.5% 8.5%	Return o Return o	•	-	9.5 9.5
ARKET C	AP: \$4.5 l	billion (Mid	Cap)		2.9%	4.6%	3.3%	3.5%	3.6%	3.5%	3.1%	4.1%	3.5%	3.1%	2.5%	3.0%	Retained	to Com I	Eq	З.
ECTRIC	OPERATI	NG STATIS <sup>®</sup> 2020	TICS 2021	2022	61%	50%	56%	57%	58%	59%	63%	57%	61%	64%	69%	66%	All Div'd			6
hange Retail S Indust. Use (I	Sales (KWH) MWH)	+.4	+5.1 20002	+3.4 22097				eneral Ele stomers in									vind, 15% 37% of 1			
. Indust. Revs. acity at Peak (	. per KWH (¢)	4.99 NA	5.22 NA	5.23 NA	area o	f Oregon	including	g Portland	and Sa	alem (pop	ulation:	1.9 mil-	deprecia	ation rate	: 3.4%.	Has 2,87	3 full-time	e employ	ees. Ch	airma
k Lóad, Summ	her (Mw)	3771	4447	4255				the proces osed in 19									O: Maria			
ual Load Facto hange Custorr	ners (yr-end)	NA +1.5	NA +.6	NA +1.1				ercial, 33					0				.portlandg	,	'	
d Charge Cov	r. (%)	275	261	254			_	eral E				•					on is			
INUAL R			ast Est'o	1 '20-'22 '26-'28				wn ea heal									ctric is loo			
hange (per venues		1.0% 4	.0%	3.5%	For	full-y	/ear	2023,	mar	nagem	ent 1	reaf-	least	375 t	o 500	mega	watts	of no	nemi	ttir
ash Flow mings		4.0% 5	.5% .0%	4.5% 5.0%				to \$2. Neathe									ion in icant			
vidends ok Value			.0% .0%	5.5% 4.0%	push	n 2022	2's elec	ctric u	sage	up 3.	4% in	the	capao	city as	s well	l. Th	us far	, the	comp	an
	UARTERL	<b>REVENUES</b>	(\$ mill.)	Full				ory, m year.									r with t a 31			
dar Mai 20 573		.30 Sep.30 547		Year 2145				ling it									ll owr			
21 609			556 608	2396				or inve					the v	ventur	e, an	d will	have	a 30-	-year	co
22 620 23 680		743	687 <b>728</b>	2647 <b>2800</b>				l batte ignific									rchase mplet			
23 68 24 74			726 775	2800 3000	year	's prot	fits. C	apital	expe	nditur	es are	e ex-	for D	ecemb	ber. Ť	'he gr	een li	ght fr	om re	egu
al-		GS PER SHAP		Full				ore th costs v					lator	s to pi Id ree	ursue	these	types - to h	of inv	ngle	len dig
		<b>.30 Sep.30</b> 13 .84	Dec.31 .57	Year 2.75				rnings									se (the			
<b>21</b> 1.			.57	2.75	men	d in 2	2024, t	hough	. In	Febru	ary, F	$\mathbf{GE}$					owed			
	.67 .7	72 .65 65 .60	.70 <b>.65</b>	2.74 2.70				rate c . The									many from a			
		70 .70	.05 .75	3.00	14%	price	hike,	, in pa	art to	reco	up hi	gher	based	d loca	al eco	onomy	, sho	uld a	llow	$\mathbf{t}\mathbf{h}$
		DIVIDENDS P		Full				er cost									its loi			6-7
		.30 Sep.30		Year				addre capit				and and					l grow <b>total</b>			teı
	625 .36 85 .38		.385 .4075	1.50	risin	g ope	rating	; and i	finan	cing o	costs.	We	tial	looks	в арр	oealir	ng re	lative	e to	$\mathbf{t}\mathbf{h}$
)21 .40	075 .40	75 .43	.43	1.68				uctive ect in a						tric u % for			ustry ire.	's me	ediar	1 0
)22 .43 )23 .4	3.43 525.45		.4525	1.77				n "clea						ony J.				Jul	y 21,	20
Diluted	earning	s. Excl.	nonrecurri	ing (B)	Dividend	s paid m	nid-Jan.,	Apr., July	, and	\$5.30/sh	(D) In m	nill.					Financia		h	B+-
s/(IOSSES)	): 13, (	42¢); '17,	(19¢); '2 s report d	∠∪,   Uct. ue   Sha		nd reinve investme		lan availal ailable.					al cost. Ra 2: 9.5%.				e Stabilit th Persist			9 4

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(c) Incl. deferred charges. In '21: \$473 mill., Climate: Average.

Price Growth Persistence Earnings Predictability 45 95

<u>P.S. EN</u>		<b>LKI2</b>	<u>e G</u>			P		63.12					-			3.7	70	/ALUI LINE		
	3 Raised 8		High: Low:	34.1 28.9	37.0 29.7	43.8 31.3	44.4 36.8	47.4 37.8	53.3 41.7	56.7 46.2	63.9 50.0	62.2 34.8	67.1 53.8	75.6 52.5	65.5 56.1				t Price	
<b>AFETY</b> Echnical	1 Raised 1 3 Raised 7			NDS 6 x Divide elative Pric																
ETA .95 (1.00		120/23	Options:	Yes	ates recess	ion														120
B-Month Tai	•	•																		80
•	<b>dpoint (%</b> 7 (5%)	to Mid)								• <del>17•*****</del>	1	┺ <mark>╋╋╋┙┙</mark>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	╙╧╫╝╦ӥ	• • •					+60 +50
2026-28 P		ONS		L	ور ال	,րորդեր Մարդեր	<sup>4</sup> 11 <sup>1</sup> 11 <sup>1</sup> 11	, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	nond.			ľ								40 30
Price	Gain	nn'l Total Return	····					•												20
gh 90 w 75	(+45%) (+20%)	12% 8%			••••••		******	•••••	•••••••••	······································	••••••••	••••••	•	·····	•		% то	 T. RETUR	N 7/23	15
stitutional 30202		ns 102023	D										••••••	•	••••				VL ARITH.*	
Buy 419 Sell 36	9 438	442 347	Percent shares traded	t 30 - 20 - 10 -	.1 .1 .11												1 yr. 3 yr.	-0.4 23.9	11.5 59.2	E
d's(000) 354404 007 2008				2012	2013	2014	2015		 2017	2018	2019	2020	111111111 2021	2022	2023	2024	5 yr. © VALI	43.7 <b>Je line p</b>	52.2 UB. LLC	26-2
5.28 27.9	4 24.57	23.31	22.42	19.33	19.71	21.52	20.61	18.22	18.14	19.24	19.99	19.05	19.29	19.72	23.80	24.40	Revenue	es per sh		26.
4.36 4.6 2.59 2.9			5.36	4.87 2.44	5.17 2.45	5.82 2.99	5.75 2.91	5.07 2.83	5.30 2.82	5.81 3.12	6.14 3.28	6.37 3.43	6.46 3.65	6.08 3.47	6.15 3.45	6.55 3.70		low" per : s per sh <sup>4</sup>		7. 4.
1.17 1.2	9 1.33	1.37	1.37	1.42	1.44	1.48	1.56	1.64	1.72	1.80	1.88	1.96	2.04	2.16	2.28	2.40	Div'd De	cl'd per s	sh <sup>B</sup> ∎†	2
2.65 3.5 4.35 15.3		4.27 19.04	4.12 20.30	5.09 21.31	5.56 22.95	5.58 24.09	7.65 25.86	8.32 26.01	8.30 27.42	7.76 28.53	6.28 29.94	5.80 31.71	5.39 28.65	5.81 27.62	7.20 28.65	7.20 29.95		ending p lue per sl		7 34
3.52 506.0	2 505.99	505.97	505.95	505.89	505.86	505.84	505.28	504.87	505.00	504.00	504.00	504.00	504.00	497.00	500.00	500.00	Commor	n Shs Out	tsť g <sup>D</sup>	500
16.5 13.0 .88 .8		10.4	10.4	12.8 .81	13.5 .76	12.6 .66	14.1	15.3 .80	16.3 .82	16.6 .90	18.0 .96	15.7 .81	16.8 .91	18.5 1.08	Bold fig Value	Line	•	'I P/E Rat P/E Ratic		1
.7% 3.3%		4.3%	4.2%	4.6%	4.4%	3.9%	3.8%	3.8%	3.7%	3.5%	3.2%	3.6%	3.3%	3.4%	estin		-	'l Div'd Y	ield	3.
PITAL STR al Debt \$19				5 mill.	9968.0 1243.0	10886 1518.0	10415	9198.0 1436.0	9161.0 1431.0	9696.0 1582.0	10076 1666.0	9603.0 1741.0	9722.0 1853.0	9800.0 1739.0	11900 1730	12200 1860	Revenue Net Prof			13 2
Debt \$1639 tal Interest (		LT Interes 3.5x)	<b>st</b> \$565 m	ill.	39.5%	38.2%	37.4%	31.7%	37.3%	23.7%	32.2%	14.3%	19.5%	13.7%	20.0%	20.0%	Income 1	Tax Rate		20.
ises, Uncaj	Ū	,	ntals \$35 r	mill	4.6%	4.5%	6.2% 40.3%	8.4% 45.3%	10.6% 46.6%	8.7% 47.8%	6.5% 47.7%	7.0%	5.5% 51.3%	5.1% 54.6%	8.0% 54.0%	7.0% 53.5%		% to Net F rm Debt F		6. 54.
ision Asse					59.6%	59.6%	59.7%	54.7%	53.4%	52.2%	52.3%	52.4%	48.7%	45.4%	46.0%	46.5%	Commor	n Equity F	Ratio	46
			Oblig \$56	628 mill.	19470 21645	20446 23589	21900 26539	24025 29286	25915 31797	27545 34363	28832 35844	30480 37585	29657 34366	30224 35942	31175 38250	32175 40475	Total Ca Net Plan	•	11)	37 46
Stock Non					7.5%	8.4%	7.6%	6.8%	6.4%	6.7%	6.7%	6.6%	7.1%	6.7%	6.5%	6.5%		n Total C	•	7.
mmon Stoc of 7/17/23	<b>k</b> 499,111	,056 shs.			10.7% 10.7%	12.5% 12.5%	11.3%	10.9% 10.9%	10.3% 10.3%	11.0% 11.0%	11.0%	10.9% 10.9%	12.8% 12.8%	12.7% 12.7%	12.0% 12.0%	12.5% 12.5%	Return o	n Shr. Eq n Com Ec		13. 13.
RKET CAP					4.4% 59%	6.3% 49%	5.3% 53%	4.6% 58%	4.1% 61%	4.7% 58%	4.7% 57%	4.7% 57%	5.7% 56%	4.8% 62%	4.5% 64%	4.5%	Retained All Div'd	I to Com	•	5. 6
ECTRIC OP		2020	2021	2022				ce Enterp								64% s: Comr	nercial (5			-
nange Retail Sale Indust. Use (MWI Indust. Revs. per	H)`´	-2.5 NA NA	+1.3 NA NA	+1.6 NA NA	pany fo	r Public	Service E	Electric an c and 1.9	d Gas C	ompany	(PSE&G)	, which					revenue as 12,525			
acity at Peak (Mw Load, Summer (I		NA	NA 10064	NA NA	PSEG	Power L	LC, a no	onregulate	d powe	r genera	tor with 1	nuclear	Chair: D	r. Ralph	Izzo. Ch	air, Pres	. & CEO:	Ralph A	. LaRos	sa. I
al Load Factor (% ange Customers	6)	NA +.9	NA +.9	NA +.9				sold its for t to dive									za, P.O. 7000. Int			
I Charge Cov. (%	)	298	273	298	Pub		Servi			prise		oup					l ont			
NUAL RAT	ES Past		st Est'd	'20-'22 26-'28				likely this y									eet, w that			
nange (per sh) venues ash Flow"	-1.0 2.0	)% .	5%	4.5% 3.5%	Man	agem	ent re	cently	affir	med i	ts bott	tom-	the re	egulat	ory p	ricing	umbr	ella. '	Those	e as
nings idends	2.0 2.0 4.0	)% 4.	5%	4.0%		shar		ıll-yea Thus									strea risin			
k Value	4.0	)% 2.		5.5% 3.0%				higł set by									Jersey he sta			
l- QUA ar  Mar.3°	RTERLY RI 1 Jun.30	EVENUES ( Sep.30		Full Year	weat	her.	Other	heady	vinds	inclu	de ris	ing	carbo	n-free	sour	ces by	2035 2	. The	five-	yea
0 2781 1 2889	2050 1874	2370 1903	2402 3056	9603 9722				se and temmi									ram fo illion,			
2 2313	2076	2272	3139	9800				bond 1 d res				nda					e up a			
3 3755 4 <b>3850</b>		2460 2525	3264 3350	11900 12200	traj	ector	y in 2	2 <b>024.</b> I	ntere	st exp	ense a	and	the n	eed to	o raise	e equi	on av ty or s	sell of	f piec	ces
I- E	ARNINGS	PER SHAR	E A	Full	pens	ion co	osts sh	ould n hard t	noder	ate, a	nd lea	.der-					the pı the ra			
ar Mar.3 20 1.03	1 Jun.30 .79	.96	.65	Year 3.43	pens	es in	check	. Furt	therm	iore, i	atility	in-	te a	9.6%	reg	ulated	l retu	ırn o	n ca	ıpit
<b>21</b> 1.28 <b>22</b> 1.33	.70	.98 .86	.69 .64	3.65 3.47				due to for ne									ising e y exec			
. <b>3</b> 1.39	.70	.81	.60	3.50	retu	rns or	ı regu	latory	capit				well,	5%-79	% lon	g-terr	n prof	fit_gro	wth	fro
24 <i>1.40</i> N- QUAR	.70 TERLY DIV	<i>.90</i> Dends Pa	.70 .ID ¤∎†	3.70 Full	New	Jer	sey's	ement "gree	n"e				This	issu	e, ho	weve	l be ir e <b>r, do</b>	es n	ot st	tan
ar Mar.3	1 Jun.30	Sep.30		Year	tion	and	last	year' oth a	s Inf	latio	n Rec	luc-	out a	at the	e rec	ent d	q <b>uote</b> 8 are	. Tota	al ret	tur
<b>19</b> .47 <b>20</b> .49	.47 .49	.47 .49	.47 .49	1.88 1.96	mair	nly a b	backdo	oor clea	an-en	ergy ł	oill tha	at to	with	the e	electri	c util	lity m	edian	of g	9.69
<b>21</b> .51	.51 .54	.51 .54	.51 .54	2.04		G's de wable		includ nd n		apport		both wer					hink for ut			
	.04	.34	.04	1 2.10							- P <sup>U</sup>	· · · • •	~ ~	·~ · · · · ·		B				
<b>22</b> .54 <b>23</b> .57	.57				sour	ces, r	namel	y nucl	ear.	The	compa	any	Anthe	ony J.	Glen	non		Augus	st 11,	20.

'16, (\$1.08); '17, 28¢ (net); '18, (29¢); '19, 5¢; (B) Dr/ds historically paid in late Mar., June, | original cost. Hate allowed on common equity '20, 33¢; '21, (\$4.94); '22, (\$1.41); Q1-22 '23, | Sept., & Dec. = Div/d reinvestment plan avail. | in '18: 9.6%; Regulatory Climate: Average.
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Company's Financial Streng	gth A++
Stock's Price Stability	95
Price Growth Persistence	60
Earnings Predictability	100

EMI	PR/	A EN	VER(		YSE-SF	RE	R P	ecent - Rice	144.4	5 P/E Rati	₀ <b>16.</b>	<b>1</b> (Traili Media	ng: 15.7) an: 20.0)	RELATIV P/E RATI	5 <b>0.9</b>	3 DIV'D	3.4		ALUI _INE	<u>1</u> 21	σ
ELINES	ss <b>3</b>	Lowered	4/21/23	High: Low:	72.9	93.0	116.3 86.7	116.2 89.4	114.7	123.0 99.7	127.2 100.5	154.5 106.1	161.9 88.0	144.9 114.7	176.5 129.7	163.6 138.6				Price	
ETY		Raised 7/		LEGEI	NDS 4.5 x Divide	ends p sh													2020	2027	4
		Raised 7/ = Market)	/21/23	Options:	Yes	ce Strength cates recess	sion														T
		et Price	Range	- Snaueu									1.			IT. T					+
-High	•	ooint (%	•		<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11111111111		THEFT	ուլեր	1 <sup>111111111111111111111111111111111111</sup>	1111111	արորո	l, i, i	1					
2-\$217		) (15%)				1 <sup>111111111111111111111111111111111111</sup>			<u>h</u> n r				1								+
			nn'l Total	01000		····*·····		•••••••	•••••••••				••*••								+
Pric 240	0 (+	Gain •65%)	Return 16% 9%	******							**********	••••		*********		•••••					+
180 itutio		25%) ecisior																	RETUR	N 6/23	
÷	302022 476	402022 518	102023 436	Percent									1.					1 yr.	THIS V TOCK -0.2	INDEX 16.5	E
Í (000) 26	332 37683	364 273687	425 269497	traded	8 -											uldı		5 yr. 4	34.5 44.7	58.6 48.6	t
	2008	2009	2010	2011	2012	2013	2014	2015		2017	2018	2019	2020	2021	2022	2023	2024	© VALU		UB. LLC	26
79 / 93	44.21 7.40	32.88 7.94	37.44 7.76	41.83 8.58	39.80 8.92	43.18 8.87	44.80 9.41	41.20		44.59 10.57	42.69 11.07	37.12	39.41 13.22	40.57 14.17	45.94 15.70	57.70 16.25	58.20 17.30	Revenues "Cash Flo	•	sh	
26	4.43	4.78	4.02	4.47	4.35	4.22	4.63	5.23		4.63	5.48	5.97	7.38	8.43	9.21	9.00	9.60	Earnings Div'd Dec			
24 70	1.37 8.47	1.56 7.76	1.56 8.58	1.92 11.85	2.40 12.20	2.52 10.52	2.64 12.68	2.80 12.71	3.02 16.85	3.29 15.71	3.58 13.82	3.87 12.71	4.18 16.21	4.40	4.58 17.04	4.76 17.00	5.00 17.00	Cap'l Spe			
	32.75	36.54 246.51	37.54 240.45	41.00 239.93	42.42	45.03 244.46	45.98 246.33	47.56 248.30		50.41 251.36	54.35 273.77	60.58 291.71	70.11 288.47	79.17 316.92	83.43 314.33	85.55 305.00	90.20 305.00	Book Valu Common			1
4.0	11.8	10.1	12.6	11.8	14.9	19.7	240.33	240.30	230.15	231.30	2/3.//	291.71	17.5	15.4	16.8	Bold fig		Avg Ann'l			_
74	.71	.67	.80	.74	.95	1.11	1.15	.99	1.28	1.22	1.10	1.20	.90	.83	.98	Value estin	Line ates	Relative P			
	2.6%	3.2%	3.1% is of 3/31	3.6%	3.7%	3.0% 10557	2.6% 11035	2.7%	2.9%	2.9% 11207	3.2% 11687	2.9%	3.2% 11370	3.4% 12857	3.0% 14439	17600	17750	Avg Ann'l Revenues		leiu	
l Debt	t \$2824	13 mill. <b>D</b>	کا Due in 5	Yrs \$6475 st \$1155 i		1060.0	1162.0	1314.0	1065.0	1169.0	1607.0	1825.0	2316.0	2701.0	2960.0	2840	2985	Net Profit	(\$mill)		
\$1343	3 mill. fi	inance le	ases.	JL \$11001		26.5% 11.2%	19.7% 14.4%	19.2% 15.3%	14.4% 22.2%	24.5% 21.9%	20.1%	17.9%	18.0% 8.7%	25.5% 8.0%	20.1% 8.6%	19.0% 9.0%	19.0% 8.5%	Income Ta AFUDC %		Profit	
al Inter	rest Co	verage:	3.6x)			50.5%	51.7%	52.6%	52.7%	56.4%	55.7%	51.0%	48.2%	44.8%	47.5%	50.5%	50.5%	Long-Terr	n Debt R	latio	
			nnual ren 2390 mill.	ntals \$53 r	mill.	49.4%	48.2% 23513	47.3% 24963	47.3%	43.5% 29135	38.4% 38769	43.4%	44.8% 45174	53.3% 47069	50.7% 51683	47.5% 54700	48.0% 57550	Common Total Capi			-
	: \$889 r			Oblig \$28		25460	25902	24303		36503	36796	36452	40003	43894	47782	50800	53650	Net Plant		"')	
000 sh	hs. 4.87	75%, cun	nulative.	φ <del>4</del> 5 mili.		6.0% 9.6%	6.1% 10.2%	6.4% 11.1%	5.0% 8.2%	5.1% 9.2%	5.1% 9.4%	5.5% 9.1%	6.1% 9.9%	6.6% 10.4%	6.8% 10.9%	6.0% 10.5%	6.0% 10.5%	Return on Return on		•	
f 4/28/	/23	314,650,				9.6%	10.2 %	11.1%	8.2%	9.2 % 9.2%	10.0%	9.1%	10.6%	10.4 %	11.1%	10.5%	10.5%	Return on	•	•	
			lion (Larg			4.1% 58%	5.0% 52%	5.8% 48%	2.9% 65%	3.3% 65%	4.1% 62%	3.9% 62%	4.8% 58%	5.2% 52%	5.7% 50%	5.0% 53%	5.0% 53%	Retained t All Div'ds			
			STATIST	2021	2022				nergy is a									is gas. Th			st
ıdüst. Use		,	4 NA	-3.7 NA NA	+2.8 NA NA	Gas &	Electric (	SDG&E	), which se	ells elect	ricity & g	, as mainly	in San	subsidia	ry (SI)	is active	in LNC	G exportat	ion and	d other	е
ity at Peal	vs. per KW ak (Mw) mmer (Mw)	. ,	NA NMF NMF	NMF NMF	NMF NMF	tributes	gas to	most of	thern Calif Southern	Califorr	ia. Owns	s 80% of	Oncor	nue. '22	reported	deprec.	rates: 2	20. Power .6%-7.0%.	Employ	rs 15,78	5.
Load Fac			NMF +.8	NMF +.9	NMF +.5				distributes Jas. Electr									nc.: CA. A 000. Intern			
Charge Co			178	201	232	-			gy wi									atural			
IUAL F	RATES		Pas	st Est'd	d '20-'22				year ume ir									ttractiv at will			
ange (pe enues	S	10 Yrs. 0.5	%		' <b>26-'28</b> 7.0%	affir	med i	ts \$8	.60-\$9.	20 pe	r sha	re bot	tom-	lion t	onnes	per a	annur	n of Ll	NG fr	om T	e
sh Flo ings		5.5° 7.0	% 12.	0%	7.0% 7.0%				uarter ough									a star are ne			
dends k Valu		8.5 7.0		5% 0%	5.5% 5.5%	quar	ter, a	as la	ast ye	ar's	heat	wave	in	scrib	ed. Co	nocoF	Phillip	s has c	come	on be	36
			VENUES ( Sep.30		Full Year				rnia d 22. Reg									KR wil endeav			
	3029	2526	2644	3171	11370	issue	e for	$_{\mathrm{this}}$	year	in pa	articu	lar. S	Sig-					out a 2			
1 3	3259 3820	2741 3547	3013 3617	3844 3455	12857 14439				nents i æd fir									up a ha a bur			
2 2	6560	3575	3650	3815	17600		upmer		Sempra					earni	ngs p	ower	of \$0	0.50-\$0	.75 p	oer sl	ha
3 6	5125 FAI	3750 DNINGS D	3825 PER SHARI	4050 F A	17750				oth of i rdue fo									o repli roject			
36 46		Jun.30	Sep.30	Dec.31					d tran				-	over,	SI h	as co	mpar	able-sc	aled	LNG	Г
3 6 4 6 ⊨ ar Ma		1.58 1.63	1.31 1.70	1.88 2.16	7.38 8.43	deliv	very p	rices	iary i ought	to b	enefit		back	nia s	ite in	Mexi	co. T	e at its he sub	sidiaı	ry is	а
364 646 - Mar 02	2.53		1.97	2.35	9.21	end	of 202	23, w	ith fur	ther :	incren	nențal	im-	explo	ring o	opport	unitie	es in g ction, a	reen	ĥydr	o
3 6 4 6 I- ar M 0 2 1 2 2 2	2.53 2.95 2.91	1.98	1.90	2.40	9.00		sion is	s expe	ing ner ected i	n ťhe	secor	nd qua	arter	looks	very	promi	ising.				
3 6 4 6 	2.53 2.95	1.98 <b>1.80</b> 1.95	2.05	2.55	9.60							& Éle			isšu	e is	neu	trally		Irod	
3     6       4     6       I-     I       0     2       1     2       2     2       3     2       4     3	2.53 2.95 2.91 2.92 <b>3.05</b> QUAR	1.80 1.95 Terly Di	2.05 Vidends F	PAID <sup>B</sup>	Full						s in (	Califor	mie	Vean	.ahoo	d re					۱ř
3 6 4 6 1- ar Ma 0 2 1 2 2 2 3 2 4 3 1- ar Ma	2.53 2.95 2.91 2.92 <b>3.05</b> QUAR <sup>*</sup> lar.31	<i>1.80</i> <i>1.95</i> TERLY DI Jun.30	2.05 VIDENDS F Sep.30	PAID <sup>B</sup> Dec.31	Full Year	and shou	SoČal ld be	lGas. retro	Highe active	r rate to the	start	of 202	24.	ance	. How	vever,	elativ SRE's	<b>e pri</b> s total	<b>ce</b> j retur	perfo	te
3     6       4     6       1-     Mar       0     2       1     2       2     2       3     2       4     3       1-     1       1     2       2     2       3     2       4     3       1-     1       1- <t< td=""><td>2.53 2.95 2.91 2.92 <b>3.05</b> QUAR lar.31 .895 .9675</td><td>1.80 1.95 TERLY DI Jun.30 .9675 1.045</td><td>2.05 VIDENDS F Sep.30 .9675 1.045</td><td>РАІ<b>D</b> в Dec.31 .9675 1.045</td><td>Full Year 3.80 4.10</td><td>and shou <b>The</b></td><td>SoČal ld be <b>com</b></td><td>lGas. retro <b>pany</b></td><td>Highe active <b>'s go</b></td><td>r rate to the <b>al of</b></td><td>start 6%-</td><td>of 202 8% lo</td><td>24. o<b>ng-</b></td><td>ance tial</td><td>. How looks</td><td>vever, good</td><td>e<b>lativ</b> SRE's relat</td><td><b>e pri</b> s total ive to</td><td>ce j retur its i</td><td><b>perfo</b> rn por indus</td><td>te sti</td></t<>	2.53 2.95 2.91 2.92 <b>3.05</b> QUAR lar.31 .895 .9675	1.80 1.95 TERLY DI Jun.30 .9675 1.045	2.05 VIDENDS F Sep.30 .9675 1.045	РАІ <b>D</b> в Dec.31 .9675 1.045	Full Year 3.80 4.10	and shou <b>The</b>	SoČal ld be <b>com</b>	lGas. retro <b>pany</b>	Highe active <b>'s go</b>	r rate to the <b>al of</b>	start 6%-	of 202 8% lo	24. o <b>ng-</b>	ance tial	. How looks	vever, good	e <b>lativ</b> SRE's relat	<b>e pri</b> s total ive to	ce j retur its i	<b>perfo</b> rn por indus	te sti
3       6         4       6         I-       I         0       2         1       2         2       2         3       2         4       3         I-       I         ar       Main         9          0          11       1	2.53 2.95 2.91 2.92 <b>3.05</b> QUAR lar.31 .9675 .045	1.80 1.95 TERLY DI Jun.30 .9675 1.045 1.10	2.05 VIDENDS F Sep.30 .9675 1.045 1.10	PAID B Dec.31 .9675	Full Year 3.80	and shou The tern able	SoČal ld be <b>com</b> <b>1 ear</b> <b>, give</b>	lGas. retro p <b>any</b> ning en th	Highe active	r rate to the <b>al of</b> wth spect	start 6%- looks s of t	of 202 8% lo s ach the In	24. ong- iev- ifra-	ance tial 10%	. How looks media der it	vever, good n leve for a	elativ SRE's relat el. Uti long-f	<b>e pri</b> s total	ce j retur its i vestor olding	perfo rn po indus rs sho	te sti ot

(A) Din egs. Exol. Indinec. gain/toss). 09, (31:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 12 (37:05), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 13, (51:04), 12 (37:05), 12

	=1, =0=0
Company's Financial Strength	A
Stock's Price Stability	95
Price Growth Persistence	55
Earnings Predictability	90

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nstitu		Decisio		1							•••			*********		-		%10	T. RETUF	IN 7/23 /L ARITH.* INDEX	
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2.28	2.25	2.32	2.36	2.55	2.67	2.70	2.77	2.84	2.83	3.21	3.00	3.17	3.25	3.42	3.61	3.65	4.00	Earning	s per sh	4	5
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16.23	17.08	18.15	19.21	20.32	21.09	21.43	21.98	22.59	25.00	23.98	23.92	26.11	26.48	26.30	27.93	28.00	29.90	Book Va	lue per sl	۱C	32
63.10	777.19	819.65	843.34	865.13	867.77	887.09	907.78	911.72	990.39	1007.6	1033.8	1053.3	1056.5	1060.0	1089.0	1070.0	1070.0		n Shs Out		107
16.0 .85	16.1 .97	13.5	14.9 .95	15.8	17.0 1.08	16.2 .91	16.0 .84	15.8 .80	17.8 .93	15.5 .78	15.1 .82	17.6 .94	17.9 .92	18.4	19.6 1.14	Bold fig Value	Line	•	i'l P/E Rat P/E Ratio		1
4.4%	4.6%	5.5%	5.1%	4.6%	4.3%	4.6%	4.7%	4.8%	4.4%	4.6%	5.3%	4.4%	4.4%	4.2%	4.1%	estin	ates	Avg Ann	ı'l Div'd Y	ield	3.
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ſ Debt	\$50427	mill. I	T Interes	st \$1754 i		2439.0 34.8%	2567.0 33.8%	2647.0 33.4%	2757.0 28.5%	3269.0 25.2%	3096.0 21.3%	3354.0 15.9%	3481.0 14.3%	3670.0 16.3%	3931.3 18.8%	3960 15.0%	4280 15.0%	Net Prof	<u> </u>		5: 15.
		nance lea ied: 3.3x)	ases.			11.6%	13.9%	13.2%	11.9%	7.6%	6.8%	6.0%	6.6%	7.7%	8.0%	8.0%	8.0%	AFUDC	% to Net I		6.
eases,	Uncapi	italized Á		ntals \$307	' mill.	51.5%	49.5%	52.8%	61.5%	64.5%	62.0%	60.1%	61.5%	64.0%	63.0%	64.0%	64.0% 36.0%	-	rm Debt F		63. 27
			17225 mil <b>O</b>	n. Iblig \$163	382 mill.	45.8% 41483	47.3%	44.0% 46788	35.7% 69359	35.0% 68953	37.6% 65750	39.5% 69594	38.1% 73336	35.6% 78285	36.5% 80558	36.0% 83500	85000		n Equity F pital (\$mi		37. 935
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alue); 4				cum. pfd.		6.8% 12.1%	7.1% 12.1%	6.6% 12.0%	4.9% 10.3%	5.9% 13.3%	5.9% 12.4%	6.0% 12.1%	5.9% 12.3%	5.8% 13.0%	5.5% 12.5%	5.5% 13.0%	5.5% 13.0%		on Total C on Shr. Eq		6.5 14.5
			02,540 sh			12.1%	12.5%	12.6%	11.0%	13.4%	12.5%	12.1%	12.4%	13.1%	13.0%	13.0%	13.0%		on Com E	-	14.
			lion (Larg			3.2%	3.2%	3.1%	2.5%	3.9%	2.6%	2.8%	2.8%	3.1%	3.0%	3.5%	3.5%		to Com		5.
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	,
Company's Financial Strength	Α
Stock's Price Stability	95
Price Growth Persistence	45
Earnings Predictability	95

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# KRC

# Kroll Lowers Its Recommended U.S. Equity Risk Premium to 5.5%

# **Executive Summary**

Kroll regularly reviews fluctuations in global economic and financial market conditions that may warrant changes to our equity risk premium (ERP) and accompanying risk-free rate recommendations. The risk-free rate and ERP are key inputs used to calculate the cost of equity capital in the context of the Capital Asset Pricing Model (CAPM) and other models used to develop discount rates. We also update country risk data on a quarterly basis for 175+ countries using various models.

The Kroll Recommended U.S. ERP is decreasing from 6.0% to 5.5% when developing USD-denominated discount rates as of June 8, 2023 and thereafter, until further notice. The Kroll Recommended Eurozone ERP is being reaffirmed in the range of 5.5% to 6.0% until further notice.

# Background

According to our last update "Impact of High Inflation and Market Volatility on Cost of Capital Assumptions" (dated October 18, 2022), the Kroll Recommended U.S. ERP was increased to 6.0% (from 5.5%) when developing USD-denominated discount rates as of October 18, 2022 and thereafter, until further guidance was issued.

In March 2023, we reaffirmed our 6.0% U.S. ERP guidance, largely due to the emerging banking crisis that led to a number of banks declaring bankruptcy or being bailed out (through acquisitions).

More recently, we observed that the factors we monitor suggested (on the whole) that equity risks had diminished relative to our previous March 2023 analysis, but the stalemate in the U.S. debt ceiling negotiations was the factor preventing us from lowering the recommendation to 5.5%. In early May, U.S. Treasury Secretary Janet Yellen warned that the country could breach the debt ceiling as early as June 1 (later changed to June 5), which could have led to the first-ever debt default by the United States.

The stalemate over the debt ceiling has been resolved with the passage of the "Fiscal Responsibility Act of 2023" (signed into law by the U.S. President on June 3). In addition, the factors we normally monitor continue to suggest that equity risks have diminished relative to when we issued our October 2022 guidance, as well as relative to the turmoil observed during the March 2023 banking crisis:

• The Federal Reserve (Fed) hinted at a pause of its recent interest-rate hiking cycle, taking a wait-andsee approach. Although some Fed officials still think that additional rate hikes could be in the cards, this pause has removed some of the uncertainty from financial markets.

- At the end of May 2023, the S&P 500 index was up about 17% from its October 12, 2022 local low (in price terms). The NASDAQ index, a barometer of the tech sector, was up by 27% since its December 28, 2022 local low. The S&P 500 and NASDAQ improvements since the beginning of this year do not compensate for their overall 2022 losses of 19% and 33%, respectively. However, it does reflect the fact that markets have generally been more optimistic in 2023.
- The VIX (the volatility index on the S&P 500), known informally as the "fear index", has generally been around or below its long-term average of approximately 20 since the beginning of the year (except during the March banking crisis, when it reached a local high of 26.5 on March 13).
- U.S. corporate credit spreads (i.e., the difference between yields of speculative-grade bonds and investment-grade bonds) are still low on a historical basis, even though the underlying corporate yields have increased significantly since early 2022. Similar to the VIX, corporate credit spreads are generally considered a barometer of investors' "fear".
- Forward-looking ERP models have been lower relative to their September/October 2022 highs when we last increased our U.S. ERP recommendation to 6.0%.
- While there is a chance the U.S. economy will tip into recession later in 2023 or in early 2024, many economists do not expect it to be a deep or prolonged one.
- While the U.S. unemployment rate increased to from 3.4% in April to 3.7% in May, this is still very low by historical standards. The labor market is still tight and unemployment rate projections are relatively tame when compared to past recessionary periods.
- Inflation, as measured by the Consumer Price Index (CPI), is still far above the Fed's 2.0% target, but it seems to be on a steady downward path. In the 12 months ending in April 2023, CPI inflation (before seasonal adjustments) increased 4.9%, down from its 41-year high of 9.1% for the 12 month-period ending June 2022. Nevertheless, risks do remain. The Fed's preferred gauge for inflation, the Personal Consumer Expenditures (PCE) Price Index has actually accelerated in April to 4.4%. Likewise, the core PCE index (i.e., excluding food and energy) accelerated to 4.7% in April, demonstrating the challenge the Fed is facing in bringing down inflation.
- For now, the world economy appears to have avoided the worst-case scenarios from the Russia-Ukraine war.

Meanwhile, a period of "stagflation"—where the economy experiences sluggish or no growth accompanied by high inflation is still a realistic scenario for some economies within the eurozone. For example, according to recent data, Germany—Europe's largest economy—entered a technical recession in Q1 2023, after two consecutive quarters of negative real economic growth. There was some optimism in early 2023 that a contraction could be avoided, as an unseasonably warm winter in Europe contributed to lower energy prices. However, high prices continued to erode German consumer purchasing power. Inflation in Germany remained at an elevated level of 6.3% (estimated) in May and is expected to remain a key challenge for the rest of the year.

In the broader eurozone, inflation has been slowly coming down from 25-year highs, standing at an estimated 6.1% at the end of May. However, core inflation (excluding volatile energy and food prices) remained stubbornly high at an estimated 5.3%, and far from the European Central Bank's (ECB) 2.0% inflation target. The ECB slowed down the pace of interest rate hikes at its May 2023 meeting, but signaled more tightening is still coming. The revision in Germany's real GDP growth for Q1 2023 helped tip the eurozone economy into a technical recession, after also having contracted in Q4 2022. This will make ECB's job in 2023 even more challenging.

# **Cost of Capital Recommendations**

- United States: With the aforementioned factors suggesting that equity risks in the U.S. have diminished, and the immediate risks associated with the debt ceiling debate resolved with the passage of the "Fiscal Responsibility Act of 2023", Kroll is lowering its Recommended U.S. ERP from 6.0% to 5.5% when developing USD-denominated discount rates as of June 8, 2023 and thereafter, until further notice. This is matched with the higher of a normalized risk-free rate of 3.5% or the spot 20-year U.S. Treasury yield as of the valuation date.
- Eurozone (from a German investor perspective): The current Kroll Recommended Eurozone ERP remains in the range of 5.5% to 6.0%. Based on current economic and financial market conditions, we continue to believe that an ERP towards the higher end of the range (i.e., 6.0%), used in conjunction with a German normalized risk-free rate of 3.0%, is more appropriate when developing EUR-denominated discount rates as of June 8, 2023 and thereafter, until further guidance is issued.

Incremental country risk adjustments for other eurozone countries with a sovereign debt rating below AAA may be appropriate. Please note that this information does not supersede Germany's IDW (Institut der Wirtschaftsprüfer) guidance for projects that will be reviewed by German auditors or regulators.

However, we are monitoring markets and the geo-political and economic environment closely to determine whether indications point to an ERP closer to the lower end of our recommended range.

We will continue to closely monitor the situation and publish new guidance when appropriate.

Please contact our support team with any questions: costofcapital.support@kroll.com

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# KROLL

For additional information, please visit kroll.com/cost-of-capital-resource-center

#### Kroll Recommended U.S. Equity Risk Premium (ERP) and Corresponding Risk-free Rates ( $R_f$ ); January 2008–Present

Date	Risk-free Rate (R <sub>1</sub> )	R <sub>f</sub> (%)	Kroll Recommended U.S. ERP (%)	What Changed
Current Guidance:				
June 8, 2023 - UNTIL FURTHER NOTICE*	Normalized 20-year U.S. Treasury yield*	3.50*	5.50	ERP
October 18, 2022 – June 7, 2023	Normalized 20-year U.S. Treasury yield	3.50	6.00	ERP
June 16, 2022 – October 17, 2022	Normalized 20-year U.S. Treasury yield	3.50	5.50	Rf
April 7, 2022 – June 15, 2022	Normalized 20-year U.S. Treasury yield	3.00	5.50	Rf
December 7, 2020 – April 6, 2022	Normalized 20-year U.S. Treasury yield	2.50	5.50	ERP
June 30, 2020 – December 6, 2020	Normalized 20-year U.S. Treasury yield	2.50	6.00	Rf
March 25, 2020 - June 29, 2020	Normalized 20-year U.S. Treasury yield	3.00	6.00	ERP
December 19, 2019 - March 24, 2020	Normalized 20-year U.S. Treasury yield	3.00	5.00	ERP
September 30, 2019 - December 18, 2019	Normalized 20-year U.S. Treasury yield	3.00	5.50	R <sub>f</sub>
December 31, 2018 - September 29, 2019	Normalized 20-year U.S. Treasury yield	3.50	5.50	ERP
September 5, 2017 - December 30, 2018	Normalized 20-year U.S. Treasury yield	3.50	5.00	ERP
November 15, 2016 - September 4, 2017	Normalized 20-year U.S. Treasury yield	3.50	5.50	R <sub>f</sub>
January 31, 2016 - November 14, 2016	Normalized 20-year U.S. Treasury yield	4.00	5.50	ERP
December 31, 2015	Normalized 20-year U.S. Treasury yield	4.00	5.00	<u></u>
December 31, 2014	Normalized 20-year U.S. Treasury yield	4.00	5.00	<u></u>
December 31, 2013	Normalized 20-year U.S. Treasury yield	4.00	5.00	
February 28, 2013 – January 30, 2016	Normalized 20-year U.S. Treasury yield	4.00	5.00	ERP
December 31, 2012	Normalized 20-year U.S. Treasury yield	4.00	5.50	<u></u>
January 15, 2012 – February 27, 2013	Normalized 20-year U.S. Treasury yield	4.00	5.50	ERP
December 31, 2011	Normalized 20-year U.S. Treasury yield	4.00	6.00	<u></u>
September 30, 2011 – January 14, 2012	Normalized 20-year U.S. Treasury yield	4.00	6.00	ERP
July 1 2011 – September 29, 2011	Normalized 20-year U.S. Treasury yield	4.00	5.50	R <sub>f</sub>
June 1, 2011 – June 30, 2011	Spot 20-year U.S. Treasury yield	Spot	5.50	Rf
May 1, 2011 - May 31, 2011	Normalized 20-year U.S. Treasury yield	4.00	5.50	R <sub>f</sub>
December 31, 2010	Spot 20-year U.S. Treasury yield	Spot	5.50	<u></u>
December 1, 2010 - April 30, 2011	Spot 20-year U.S. Treasury yield	Spot	5.50	R <sub>f</sub>
June 1, 2010 - November 30, 2010	Normalized 20-year U.S. Treasury yield	4.00	5.50	R <sub>f</sub>
December 31, 2009	Spot 20-year U.S. Treasury yield	Spot	5.50	<u></u>
December 1, 2009 - May 31, 2010	Spot 20-year U.S. Treasury yield	Spot	5.50	ERP
June 1, 2009 – November 30, 2009	Spot 20-year U.S. Treasury yield	Spot	6.00	R <sub>f</sub>
December 31, 2008	Normalized 20-year U.S. Treasury yield	4.50	6.00	·
November 1, 2008 - May 31, 2009	Normalized 20-year U.S. Treasury yield	4.50	6.00	Rf
October 27, 2008 - October 31, 2008	Spot 20-year U.S. Treasury yield	Spot	6.00	ERP
January 1, 2008 - October 26, 2008	Spot 20-year U.S. Treasury yield	Spot	5.00	Initialized

\* We recommend using the spot 20-year U.S. Treasury yield as the proxy for the risk-free rate, if the prevailing yield as of the valuation date is higher than our recommended U.S. normalized risk-free rate of 3.5%. This guidance is effective when developing USD-denominated discount rates as of June 16, 2022 and thereafter.

"Normalized" in this context means that in months where the risk-free rate is deemed to be abnormally low, a proxy for a longer-term sustainable risk-free rate is used.

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To learn more about cost of capital issues, and to ensure that you are using the most recent Kroll's Global Cost of Capital Inputs, visit kroll.com/cost-of-capital-resource-center.

This and other related resources can also be found in the online Cost of Capital Navigator platform. To learn more about the Cost of Capital Navigator and other Kroll valuation and industry data products, visit <u>kroll.com/costofcapitalnavigator</u>.

#### UTILITY STOCKS AND THE SIZE EFFECT: AN EMPIRICAL ANALYSIS

Annie Wong\*

#### I. Introduction

The objective of this study is to examine whether the firm size effect exists in the public utility industry. Public utilities are regulated by federal, municipal, and state authorities. Every state has a public service commission with board and varying powers. Often their task is to estimate a fair rate of return to a utility's stockholders in order to determine the rates charged by the utility. The legal principles underlying rate regulation are that "the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding risks," and that the return to a utility should be sufficient to "attract capital and maintain credit worthiness." However, difficulties arise from the ambiguous interpretation of the legal definition of fair and reasonable rate of return to an equity owner.

Some finance researchers have suggested that the Capital Asset Pricing Model (CAPM) should be used in rate regulation because the CAPM beta can serve as a risk measure, thus making risk comparisons possible. This approach is consistent with the spirit of a Supreme Court ruling that equity owners sharing similar level of risk should be compensated by similar rate of return.

The empirical studies of Banz (1981) and Reinganum (1981) showed that small firms tend to earn higher returns than large firms after adjusting for beta. This phenomenon leads to the proposition that firm size is a proxy for omitted risk factors in determining stock returns. Barry and Brown (1984) and Brauer (1986) suggested that the omitted risk factor could be the differential information environment between small and large firms. Their argument is based on the fact that investors often have less publicly available information to assess the future cash flows of small firms than that of large firms. Therefore, an additional risk premium should be included to determine the appropriate rate of return to shareholders of small firms.

The samples used in prior studies are dominated by industrial firms, no one has examined the size effect in public utilities. The objective of this study is to extend the empirical findings of the existing studies by investigating whether the size effect is also present in the utility industry. The findings of this study have important implications for investors, public utility firms, and state regulatory agencies. If the size effect does exist in the utility industry, this would suggest that the size factor should be considered when the CAPM is being used to determine the fair rate of return for public utilities in regulatory proceedings.

#### **II.** Information Environment of Public Utilities

In general, utilities differ from industriales in that utilities are heavily regulated and they follow similar accounting procedures. A public utility's financial reporting is mainly regulated by the Securities and Exchange Commission (SEC) and the Federal Energy Regulatory Commission (FERC). Under the Public Utility Holding Company Act of 1935, the SEC is empowered to regulate the holding company systems of electric and gas utilities. The Act requires registration of public utility holding companies with the SEC. Only under strict conditions would the purchase, sale or issuance of securities by these holding companies be permitted. The purpose of the Act is to keep the SEC and investors informed of the financial conditions of these firms. Moreover, the FERC is in charge of the interstate operations of electric and gas companies. It requires utilities to follow the accounting procedures set forth in its Uniform Systems of Accounts. In particular, electric and gas utilities must request their Certified Public Accountants to certify that certain schedules in the financial reports are in conformity with the Commission's accounting requirements. These detailed reports are submitted annually and are open to the public.

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The FERC requires public utilities to keep accurate records of revenues, operating costs, depreciation expenses, and investment in plant and equipment. Specific financial accounting standards for these purposes are also issued by the Financial Accounting Standards Board (FASB). Uniformity is required so that utilities are not subject to different accounting regulations in each of the states in which they operate. The ultimate objective is to achieve comparability in financial reporting so that factual matters are not hidden from the public view by accounting flexibility.

Other regulatory reports tend to provide additional financial information about utilities. For example, utilities are required to file the FERC Form No. 1 with the state commission. This form is designed for state commissions to collect financial and operational information about utilities, and serves as a source for statistical reports published by state commissions.

Unlike industriales, a utility's earnings are predetermined to a certain extent. Before allowed earnings requests are approved, a utility's performance is analyzed in depth by the state commission, interest groups, and other witnesses. This process leads to the disclosure of substantial amount of information.

## III. Hypothesis and Objective

Due to the Act of 1935, the Uniform Systems of Accounts, the uniform disclosure requirements, and the predetermined earnings, all utilities are reasonably homogeneous with respect to the information available to the public. Barry and Brown (1984) and Brauer (1986) suggested that the difference of riskadjusted returns between small and large firms is due to their differential information environment. Assuming that the differential information hypothesis is true, then uniformity of information availability among utility firms would suggest that the size effect should not be observed in the public utility industry. The objective of this paper is to provide a test of the size effect in public utilities.

#### IV. Methodology

## 1. Sample and Data

To test for the size effect, a sample of public utilities and a sample of industriales matched by equity value are formed so that their results can be compared. Companies in both samples are listed on the Center for Research in Security Prices (CRSP) Daily and Monthly Returns files. The utility sample includes 152 electric and gas companies. For each utility in the sample, two industrial firms with similar firm size (one is slightly larger and the other is slightly smaller than the utility) are selected. Thus, the industrial sample includes 304 non-regulated firms.

The size variable is defined as the natural logarithm of market value of equity at the beginning of each year. Both the equally-weighted and valueweighted CRSP indices are employed as proxies for the market returns. Daily, weekly and monthly returns are used. The Fama-MacBeth (1973) procedure is utilized to examine the relation between risk-adjusted returns and firm size.

#### 2. Research Design

All utilities in the sample are ranked according to the equity size at the beginning of the year, and the distribution is broken down into deciles. Decile one contains the stocks with the lowest market values while decile ten contains those with the highest market values. These portfolios are denoted by  $MV_1$ ,  $MV_2$ , ..., and  $MV_{10}$ , respectively.

The combinations of the ten portfolios are updated annually. In the year after a portfolio is formed, equally-weighted portfolio returns are computed by combining the returns of the component stocks within the portfolio. The betas for each portfolio at year t,  $\hat{\beta}_{pt}$ 's, are estimated by regressing the previous five years of portfolio returns on market returns:

$$\tilde{\mathbf{R}}_{\mathrm{pt}} = \alpha_{\mathrm{p}} + \hat{\beta}_{\mathrm{pt}}\tilde{\mathbf{R}}_{\mathrm{mt}} + \tilde{\mathbf{U}}_{\mathrm{pt}} \tag{1}$$

where

 $R_{pt}$  = periodic return in year t on portfolio p

 $R_{mt}$  = periodic market return in year t

 $U_{pt} = disturbance term.$ 

Banz (1981) applied both the ordinary and generalized least squares regressions to estimate  $\beta$ ; and concluded that the results are essentially identical (p.8). Since adjusting for heteroscedasticity does not necessarily lead to more efficient estimators, the ordinary least squares procedures are used in this study to estimate  $\beta$  in equation (1).

The following cross-sectional regression is then run for the portfolios to estimate  $\gamma_{ii}$ , i = 0, 1, and 2:

$$R_{pt} = \gamma_{0t} + \gamma_{1t}\hat{\beta}_{pt} + \gamma_{2t}\hat{S}_{pt} + U_{pt}$$
(2)

where

- $\hat{\beta}_{pt} =$  estimated beta for portfolio p at year t, t=1968, ..., 1987
- $\hat{S}_{pt}$  = mean of the logarithm of firm size in portfolio p at the beginning of year t
- $U_{pt} = disturbance term.$

Depending on whether daily, weekly or monthly returns are used, a portfolio's average return changes periodically while its beta and size only change once a year. The  $\gamma_1$  and  $\gamma_2$  coefficients are estimated over the following four subperiods: 1968-72, 1973-77, 1978-82 and 1983-1987. If portfolio betas can fully account for the differences in returns, one would expect the average coefficient for the beta variable to be positive and for the size variable to be zero. A t-statistic will be used to test the hypothesis. The coefficients of a matched sample are also examined so that the results between industrial and utility firms can be compared.

## V. Analysis of Results

# 1. Equity Value of the Utility Portfolios

The mean equity values of the ten size-based utility portfolios are reported in Table 1. Panels A and B present the average firm size of these portfolios at the beginning and end of the test period, 1968-1987. The first interesting observation from Table 1 is that the difference in magnitude between the smallest and the largest market value utility portfolios is tremendous. In Panel A, the average size of  $MV_1$  is about \$31 million while that of  $MV_{10}$ is over \$1.4 billion. In Panel B, that is twenty years later, they are \$62 million and \$5.2 billion, respectively. Another interesting finding is that there is a substantial increase in average firm size from  $MV_9$  to  $MV_{10}$ . Since these two findings are consistent over the entire test period, the average portfolio market values for interim years are not reported. These results are similar to the empirical evidence provided by Reinganum (1981).

The utility sample in this study contains 152 firms whereas Reinganum's sample contains 535 firms that are mainly industrial companies. Two conclusions may be drawn from the results of the Reinganum study and this one. First, utilities and industriales are similar in the sense that their market values vary over a wide spectrum. Second, the fact that there is a huge jump in firm size from  $MV_9$  to  $MV_{10}$  indicates that the distribution of firm size is positively skewed. To correct for the skewness problem, the natural logarithm of the mean equity value of each portfolio is calculated. This variable is then used in later regressions instead of the actual mean equity value.

Attachment LDC-7

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2. Betas of the Utility and Industrial Samples

The betas based on monthly, weekly and daily returns are reported for the utility and industrial samples. For simplicity, they will be referred to as monthly, weekly, and daily betas. In all cases, five years of returns are used to estimate the systematic risk. The betas estimated over the 1963-67 time period are used to proxy for the betas in 1968, which is the beginning of the test period. By the same token, the betas obtained from the time period 1982-86 are used as proxies for the betas in 1987, which is the end of the test period.

The betas from using the equally-weighted and value-weighted indices are calculated in order to check whether the results are affected by the choice of market index. Since the results are similar, only those obtained from the equally-weighted index are reported and analyzed.

Table 2 reports the monthly, weekly and daily betas of the two samples at the beginning and end of the test period. Panel A shows the various betas of the industrial portfolios. Two conclusions may be drawn. First, in the 1960's, smaller market value portfolios tend to have relatively larger betas. This is consistent with the empirical findings by Banz (1981) and Reinganum (1981). Second, this trend seems to vanish in the 1980's, especially when weekly and daily returns are used.

The betas of the utility portfolios are presented in Panel B. The table shows that none of the utility betas are greater than 0.71. A comparison between Panels A and B reveals that utility portfolios are relatively less risky than industrial portfolios after controlling for firm size. The comparison also reveals that, unlike industrial stocks, betas of the utility portfolios are not related to the market values of equity.

The negative correlation between firm size and beta in the industrial sample may introduce a multicolinearity problem in estimating equation (2). Banz (p.11) had addressed this issue and concluded that the test results are not sensitive to the

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multicolinearity problem. For the utility sample, this problem does not exist.

# 3. Tests on the Coefficients of Beta and Size

The beta and firm size are used to estimate  $\gamma_1$ and  $\gamma_2$  in equation (2). A t-statistic is used to test if the mean values of the gammas are significantly different from zero. The tests were performed for four 5-year periods which are reported in Table 3. The mean of the gammas and their t-statistic are presented in Panel A for the utilities and in Panel B for the industrial firms.

The empirical results for the utility sample are reported in Panel A of Table 3. When monthly returns are used, 60 regressions were run to obtain 60 pairs of gammas for each of the 5-year periods. When daily returns are used, over 1200 regressions were run for each period to obtain the gammas. The results are similar: in all of the time periods tested, none of the average coefficients for beta and size are significantly different from zero. When weekly returns are used, 260 pairs of gammas were obtained. The average coefficients for beta are not significant in any test period, and the average coefficients for size are not significant in three of the test periods. For the test period of 1978-82, the average coefficient for size is significantly negative at a 5% level.

The test results for the industrial sample are reported in Panel B of Table 3. When monthly returns are used, the average coefficient estimates for size and beta are significant and have the expected sign only in the 1983-87 test period. When weekly returns are used, only the size variable is significantly negative in the 1978-82 period. When daily returns are used, the coefficient estimates for betas and size are not significant at any conventional level.

According to the CAPM, beta is the sole determinant of stock returns. It is expected that the coefficient for beta is significantly positive. However, the empirical findings reported in this study and in Fama and French (1992) only provide weak support for beta in explaining stock returns. The empirical findings in this study also suggest that the size effect varies over time. It is not unusual to document the firm size effect at certain time periods but not at others. Banz (1981) found that the size effect is not stable over time with substantial differences in the magnitude of the coefficient of the size factor (p.9, Table 1). Brown, Kleidon and Marsh (1983) not only have shown that size effect is not constant over time but also have reported a reversal of the size anomaly for certain years.

The research design of this study allows us to keep the sample, test period, and methodology the same with the holding-period being the only variable. The size effect is documented for the industrial sample in one of the four test periods when monthly returns are used and in another when weekly returns are used. When daily returns are used, no size effect is observed. For the utility sample, the size effect is significant in only one test period when weekly returns are used. When monthly and daily returns are used, no size effect is found. Therefore, this study concludes that the size effect is not only timeperiod specific but also holding-period specific.

# VI. Concluding Remarks

The fact that the two samples show different, though weak, results indicates that utility and industrial stocks do not share the same characteristics. First, given firm size, utility stocks are consistently less risky than industrial stocks. Second, industrial betas tend to decrease with firm size but utility betas do not. These findings may be attributed to the fact that all public utilities operate in an environment with regional monopolistic power and regulated financial structure. As a result, the business and financial risks are very similar among the utilities regardless of their sizes. Therefore, utility betas would not necessarily be expected to be related to firm size.

The objective of this study is to examine if the size effect exists in the utility industry. After controlling for equity values, there is some weak evidence that firm size is a missing factor from the CAPM for the industrial but not for the utility stocks. This implies that although the size phenomenon has been strongly documented for the industriales, the findings suggest that there is no need to adjust for the firm size in utility rate regulations.

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#### Table 1

# Average Equity Size of the Utility Portfolios at the Beginning and End of the Test Period (Dollar figures in millions)

	A: Beginning (1968)	B: End (1987)
' MV <sub>1</sub>	\$31	\$62
MV <sub>2</sub>	\$77	\$177
MV <sub>3</sub>	\$113	\$334
MV₄	\$161	\$475
MV5	<b>\$</b> 220	\$715
MV <sub>6</sub>	\$334	\$957
MV <sub>7</sub>	\$437	\$1,279
MV <sub>8</sub>	\$505	\$1,805
MV,	\$791	\$2,665
MV <sub>10</sub>	\$1,447	\$5,399

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# Table 2

Betas of the Two Samples at the Beginning and End of the Test Period

	<u>Monthl</u>	<u>y Betas</u>	Weekly	<u>Betas</u>	<u>Daily</u>	<u>Betas</u>
	1963-67	1982-86	1963-67	1982-86	1963-67	1982-86
Panel A: Indust	rial Firms					
MV	0.89	1.00	1.15	0.95		
MV <sub>2</sub>	0.94	0.87	1.13	1.01	1.11	0.92
MV <sub>3</sub>	0.88	0.82	1.07	0.86	1.14	1.01
MV <sub>4</sub>	0.69	0.74	1.12	0.83	1.14	1.04
MV <sub>5</sub>	0.73	0.80	1.00	0.85	1.03	0.86
MV <sub>6</sub>	0.66	0.82	1.03		1.13	1.01
MV <sub>7</sub>	0.64	0.81	0.97	1.01 1.04	1.05	1.04
MV <sub>8</sub>	0.62	0.75	0.97	1.04	0.98	1.09
MV,	0.52	0.78	0.97	1.11	1.00	1.20
MV <sub>10</sub>	0.43	0.65	0.78	1.00	0.94 0.86	1.16 1.22
Panel B: Public U	Itilities					
MV <sub>1</sub>	0.30	0.37	0.31	0.43	0.30	0.40
MV <sub>2</sub>	0.28	0.38	0.37	0.47	0.30	0.40
MV <sub>3</sub>	0.22	0.42	0.33	0.42	0.38	0.44
∕IV₄	0.27	0.35	0.36	0.52		0.49
AV <sub>5</sub>	0.25	0.45	0.37	0.61	0.34	0.54
4V <sub>6</sub>	0.25	0.41	0.39	0.54	0.35	0.62
٤V <sub>7</sub>	0.20	0.35	0.34	0.54 0.54	0.40	0.65
(V <sub>8</sub>	0.17	0.38	0.34	0.65	0.37	0.63
(V <sub>9</sub>	0.19	0.34	0.34	0.60	0.33	0.68
[V <sub>10</sub>	0.18	0.29	0.35	0.59	0.34 0.39	0.71 0.71

# Table 3

Tests on the Mean Coefficients of Beta  $(\gamma_1)$  and Size  $(\gamma_2)$ 

$$R_{pt} = \gamma_{ot} + \gamma_{1t}\hat{\beta}_{pt} + \gamma_{2t}\hat{S}_{pt} + U_{pt}$$

	Monthly (t-value)	Weekly (t-value)	Daily (t-value)
Panel A: Utility Sample			
1968-72 γ <sub>1</sub>	-0.46% (-0.26)	-0.32% (-0.42)	0.00 %
$\gamma_2$	-0.07% (-0.78)	-0.01% (-0.51)	-0.02% (-0.18) -0.00% (-0.46)
1973-77 γ <sub>1</sub>	-0.28% (-0.13)	0.14% (0.14)	
$\gamma_2$	-0.11% (-0.70)	-0.03% (-0.67)	-0.03% (-0.21) -0.00% (-0.53)
1978-82 γ <sub>1</sub>	0.55% (0.36)	0.54% (1.00)	
$\gamma_2$	-0.10% (-0.75)	-0.05% (-1.71)*	0.05% (0.43) -0.01% (-1.60)
1983-87 γ <sub>1</sub>	1.74% (1.28)	-0.24% (-0.51)	
γ2	-0.16% (-1.54)	-0.03% (-0.86)	-0.02% (-0.18) -0.01% (-0.63)
Panel B: Industrial Sample			
and D. mousinal Sample			
	-0.36% (-0.27)	-0.28% (-0.55)	-0.02% (0.22)
	-0.36% (-0.27) 0.07% (0.43)	-0.28% (-0.55) -0.01% (-0.19)	-0.02% (-0.32) 0.00% (0.51)
968-72 γ <sub>1</sub> γ <sub>2</sub>		-0.01% (-0.19)	0.00% (0.51)
968-72 $\gamma_1$ $\gamma_2$	0.07% (0.43)		
968-72 $\gamma_1 \\ \gamma_2$ 973-77 $\gamma_1 \\ \gamma_2$	0.07% (0.43) 1.34% (0.64)	-0.01% (-0.19) -0.23% (-0.31) -0.04% (-0.85)	0.00% (0.51) 0.14% (1.45) -0.00% (-0.64)
968-72 $\gamma_1 \\ \gamma_2$ 973-77 $\gamma_1 \\ \gamma_2$	0.07% (0.43) 1.34% (0.64) -0.01% (-0.06)	-0.01% (-0.19) -0.23% (-0.31)	0.00% (0.51) 0.14% (1.45)
968-72 $\gamma_1 \\ \gamma_2$ 973-77 $\gamma_1 \\ \gamma_2$ 978-82 $\gamma_1$	0.07% (0.43) 1.34% (0.64) -0.01% (-0.06) -0.84% (-0.28)	-0.01% (-0.19) -0.23% (-0.31) -0.04% (-0.85) -0.56% (-0.91)	0.00% (0.51) 0.14% (1.45) -0.00% (-0.64) -0.09% (-0.81)

\* Significant at the 5% level based on a one-tailed test.

# AFFIRMATION

I affirm, under the penalties for perjury, that the foregoing representations are true.

Leja D. Courter

Leja D. Courter Chief Technical Advisor Indiana Office of Utility Consumer Counselor Cause No.45911 AES Indiana

10-12-2023

Date

This is to certify that a copy of the Indiana Office of Utility Consumer Counselor's

Testimony of Leja D. Courter has been served upon the following parties of record in the

captioned proceeding by electronic service on October 12, 2023.

#### <u>Petitioner</u>

Teresa Morton Nyhart T. Joseph Wendt Jeffrey M. Peabody Lauren Aguilar Janet Nichols

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