

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF ELECTRONIC
APPLICATION OF KENTUCKY UTILITIES
COMPANY FOR AN ADJUSTMENT OF ITS
ELECTRIC RATES, AND APPROVAL OF
CERTAIN REGULATORY AND
ACCOUNTING TREATMENTS**

Case No. 2025-00113

**IN THE MATTER OF ELECTRONIC
APPLICATION OF LOUISVILLE GAS AND
ELECTRIC COMPANY FOR AN
ADJUSTMENT OF ITS ELECTRIC AND
GAS RATES, AND APPROVAL OF
CERTAIN REGULATORY AND
ACCOUNTING TREATMENTS**

Case No. 2025-00114

Direct Testimony and Exhibits of

Michael P. Gorman

On behalf of

**United States Department of Defense and
all other Federal Executive Agencies**

August 29, 2025

**Table of Contents to the
Direct Testimony of Michael P. Gorman**

| | <u>Page</u> |
|--|--------------------|
| I. INTRODUCTION AND SUMMARY | 1 |
| II. RATE OF RETURN MARKET EVIDENCE | 4 |
| II.A. Utility Industry Authorized Returns on..... | 5 |
| Equity, Access to Capital, and Credit Strength..... | 5 |
| III.B. Federal Reserve’s Impact on Cost of Capital | 12 |
| III.C. Utility Industry Credit Outlook | 17 |
| II.D. KU/LGE’s Investment Risk | 20 |
| II.E. KU/LGE’s Proposed Capital Structure | 24 |
| II.F. Embedded Cost of Debt | 27 |
| III. RETURN ON EQUITY | 28 |
| III.A. Risk Proxy Group | 30 |
| III.B. Discounted Cash Flow (“DCF”) Model | 32 |
| IV.C. Sustainable Growth DCF..... | 39 |
| IV.D. Multi-Stage Growth DCF Model | 41 |
| IV.E. DCF Summary Results | 49 |
| IV.F. Risk Premium Model..... | 50 |
| IV.G. Capital Asset Pricing Model (“CAPM”) | 57 |
| IV.H. Return on Equity Summary | 65 |
| III.I. Financial Integrity | 66 |
| IV. RESPONSE TO KU/LGE WITNESS MR. DYLAN D’ASCENDIS | 71 |
| IV.A. D’Ascendis’ Proposed Size Adjustment Adder | 74 |
| IV.B. D’Ascendis’ Proposed Credit Risk Adjustment..... | 78 |
| IV.C. D’Ascendis’ Proposed Flotation Cost Adjustment | 78 |
| IV.D. D’Ascendis’ DCF | 80 |
| IV.E. D’Ascendis’ Risk Premium..... | 81 |
| IV.F. D’Ascendis’ CAPM | 89 |

| | |
|--|----|
| IV.G. D’Ascendis’ Empirical CAPM (“ECAPM”) | 93 |
| IV.H. D’Ascendis’ Non-Regulated Company Analysis | 98 |

Verification of Michael P. Gorman

| | |
|---|--|
| Appendix A: Qualifications of Michael P. Gorman | |
| Exhibit MPG-1: Rate of Return | |
| Exhibit MPG-2: Valuation Metrics | |
| Exhibit MPG-3: Proxy Group | |
| Exhibit MPG-4: Consensus Analysts' Growth Rates | |
| Exhibit MPG-5: Constant Growth DCF Model | |
| Exhibit MPG-6: Payout Ratios | |
| Exhibit MPG-7: Sustainable Growth Rate | |
| Exhibit MPG-8: Constant Growth DCF Model (Sustainable Growth Rate) | |
| Exhibit MPG-9: Electricity Sales Are Linked to U.S. Economic Growth | |
| Exhibit MPG-10: Multi-Stage Growth DCF Model | |
| Exhibit MPG-11: Common Stock Market/Book Ratio | |
| Exhibit MPG-12: Equity Risk Premium - Treasury Bond | |
| Exhibit MPG-13: Equity Risk Premium - Utility Bond | |
| Exhibit MPG-14: Bond Yield Spreads | |
| Exhibit MPG-15: 3-Month Treasury and Utility Bond Yields | |
| Exhibit MPG-16: Value Line Beta | |
| Exhibit MPG-17: CAPM Return | |
| Exhibit MPG-18: Standard & Poor's Credit Metrics | |
| Exhibit MPG-19: D’Ascendis' Revised Multi-Stage Growth DCF Model | |

Direct Testimony of Michael P. Gorman

I. INTRODUCTION AND SUMMARY

Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140,
Chesterfield, MO 63017.

Q WHAT IS YOUR OCCUPATION?

A I am a consultant in the field of public utility regulation and a Managing Principal with
the firm of Brubaker & Associates, Inc. (“BAI”), energy, economic and regulatory
consultants.

Q ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?

A I am appearing in this proceeding on behalf of the United States Department of Defense
and all other Federal Executive Agencies (“DoD/FEA”). The DoD/FEA takes service
from Kentucky Utilities Company (“KU”) and Louisville Gas and Electric Company
(“LGE”) (collectively, “KU/LGE” or “Companies”) on several electric and gas rate
schedules.

**Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
EXPERIENCE.**

A This information is included in Appendix A to my testimony.

1 **Q HAVE YOU BEEN INVOLVED WITH PRIOR PROCEEDINGS BEFORE THE**
2 **COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE**
3 **COMMISSION (“COMMISSION” OR “KPSC”)?**

4 A Yes. I have been involved in prior proceedings before the Commonwealth of Kentucky
5 before the Public Service Commission and have presented testimony in some of those
6 proceedings.

7 **Q WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

8 A My testimony will address adjustments to KU/LGE’s proposed overall rate of return,
9 including return on equity and capital structure, embedded debt cost of KU/LGE, and
10 analysis of KU/LGE’s testimony on these subjects.

11 **Q DOES THE FACT THAT YOU DID NOT ADDRESS EVERY ISSUE RAISED**
12 **IN KU/LGE’S TESTIMONY MEAN THAT YOU AGREE WITH KU/LGE’S**
13 **TESTIMONY ON THOSE ISSUES?**

14 A No. It merely reflects that I did not choose to address all those issues. It should not be
15 read as an endorsement of, or agreement with, KU/LGE’s position on such issues. In
16 addition, other parties may offer reasonable adjustments to KU/LGE’s revenue
17 requirement that I have not addressed in my direct testimony.

1 **Q PLEASE SUMMARIZE YOUR RECOMMENDATIONS AND CONCLUSIONS**
2 **ON RETURN ON EQUITY.**

3 A I recommend the Commission award a return on common equity in the range of 9.20%
4 to 9.80%, with a point estimate of 9.50%. This return on equity reflects KU/LGE's
5 current market cost of equity. I recommend the Commission approve a return on equity
6 that provides fair compensation based on KU/LGE's investment risk and charges
7 customers no more than necessary to fairly compensate KU/LGE and to maintain its
8 financial integrity and credit standing.

9 **Q ARE YOU PROPOSING ANY ADJUSTMENTS TO KU/LGE'S PROPOSED**
10 **RATEMAKING CAPITAL STRUCTURES?**

11 A No; however, I do note that the utilities are proposing a ratemaking capital structure that
12 contain more common equity than necessary to support the utilities' credit rating and
13 financial integrity. Proposing ratemaking capital structures with excessive common
14 equity weight of total capital unnecessarily increase the utilities' cost of capital and
15 inflate revenue requirements and rates to above a just and reasonable level. I will
16 recognize the overweight of common equity in forming my recommended return on
17 equity in this case.

1 **Q WHAT IS YOUR RECOMMENDED RATE OF RETURN TO BE USED TO SET**
2 **RATES FOR KU/LGE?**

3 A As shown on my Exhibit MPG-1, my recommended overall rate of return is 7.33% for
4 KU and 7.36% for LGE, which reflects my proposed return on equity and the
5 Companies' proposed capital structures.

6 The Companies' proposed capital structures are consistent with their actual
7 historical capital structures and the ones approved by the Commission in the last
8 regulatory proceedings.

9 **Q WILL YOU ALSO RESPOND TO THE COMPANY'S REQUESTED RETURN**
10 **ON EQUITY?**

11 A Yes. KU/LGE witness Mr. D'Ascendis recommends an equity return in the range of
12 10.29%% to 11.84% and a return on equity of 10.95%.¹ Mr. D'Ascendis' recommended
13 return on equity for KU/LGE substantially exceeds a fair return and would unjustifiably
14 inflate KU/LGE's rates above a just and reasonable level.

15 **II. RATE OF RETURN MARKET EVIDENCE**

16 **Q PLEASE DESCRIBE THIS SECTION OF YOUR TESTIMONY.**

17 A In this section, I will provide observable market evidence and credit metrics to assess
18 the reasonableness of rate of return positions and a detailed analysis to demonstrate that
19 my recommended rate of return will support KU/LGE's financial integrity and access

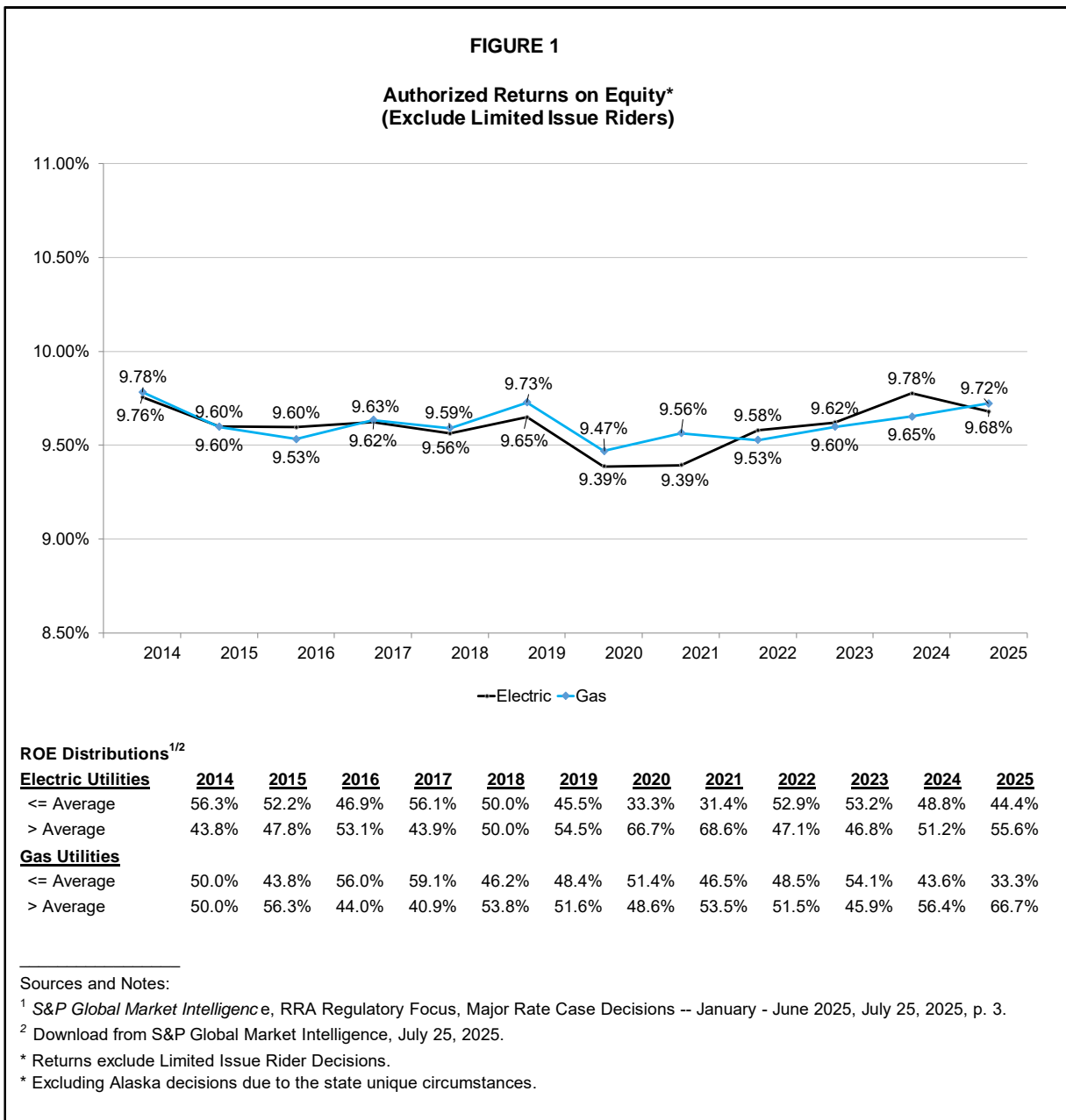
¹D'Ascendis Direct Testimony at 4.

1 to capital. I also comment on market-based models used to estimate the current
2 market-required rate of return that investors demand to assume the risk of an investment
3 similar to KU/LGE's.

4 **II.A. Utility Industry Authorized Returns on**
5 **Equity, Access to Capital, and Credit Strength**

6 **Q PLEASE DESCRIBE THE OBSERVABLE EVIDENCE ON TRENDS IN**
7 **AUTHORIZED RETURNS ON EQUITY FOR REGULATED UTILITIES.**

8 A Authorized returns on equity are an important part of how utilities produce revenues
9 and cash flows adequate to support their credit standing and to maintain their financial
10 integrity, which supports their access to capital under reasonable terms and prices.
11 Observable data, including data on industry authorized returns on equity, trends and
12 outlooks on credit standing, and the ability of utilities to attract capital to fund large
13 investments, provides clear evidence that industry authorized returns on equity have
14 been judged by market participants to be fair and reasonable. With this as background,
15 it is significant to observe that average authorized returns on equity for regulated utilities
16 have ranged from 9.39% to 9.72% for the period from 2014 through the first quarter of
17 2025, and that between 2020 and 2025, authorized returns on equity have averaged
18 around 9.60%. These returns are summarized in Figure 1.



The distribution of the industry averages is also important in assessing the reasonableness of authorized return on equities in the current market. As shown in Figure 1, in 2024 and the first quarter of 2025, the average returns on equity awarded to electric utilities were about 9.78% and 9.72%, respectively, and about half the electric authorized equity returns were above and below the industry average return.

2025-00113 & 2025-00114

DoD/FEA's Direct Testimony of Michael P. Gorman

Q HAVE UTILITIES BEEN ABLE TO ACCESS EXTERNAL CAPITAL TO SUPPORT CAPITAL EXPENDITURE PROGRAMS?

A Yes. Utilities have enjoyed robust access to capital markets under favorable terms and costs. This access to capital is in recognition of the returns that regulatory commissions have found to be fair and reasonable. The Regulatory Research Associates’ (“RRA’s”) March 26, 2025, Utility Capital Expenditures Report, *RRA Financial Focus*, made several relevant comments about utility investments generally:

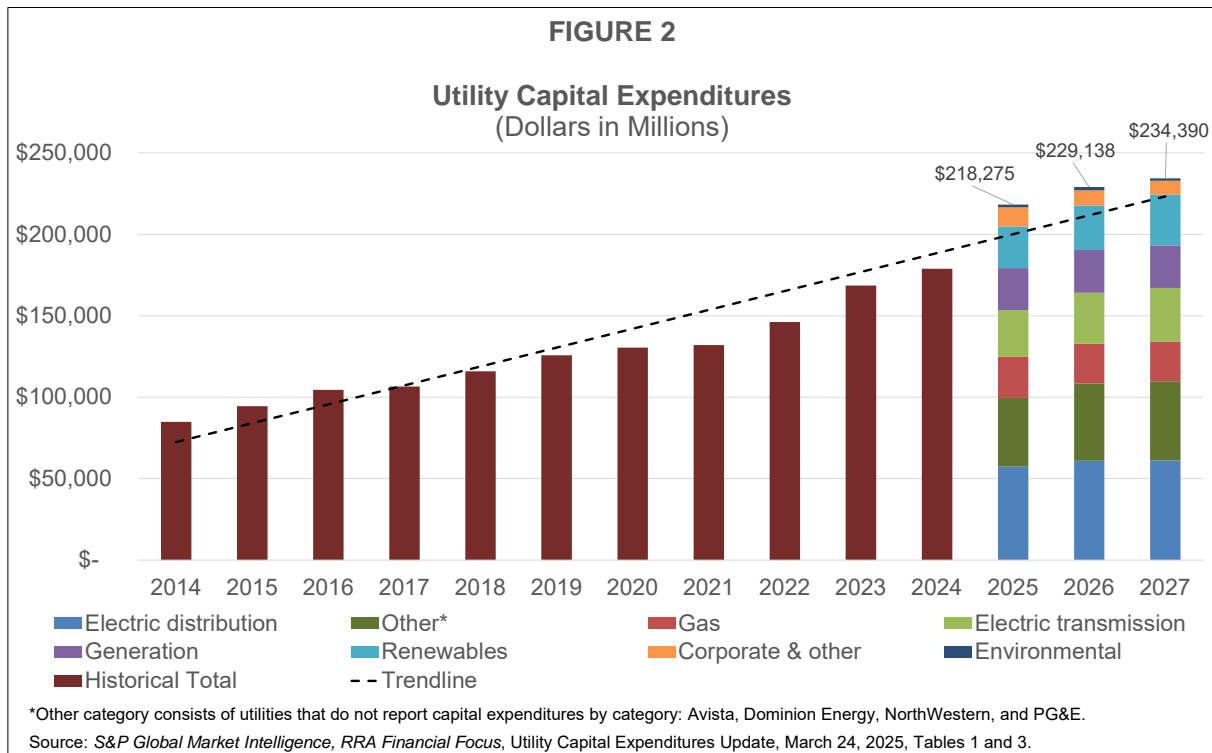
- Projected capital expenditures for 2025 among the 47 energy utilities in Regulatory Research Associates' representative sample of publicly traded, US-based utilities are forecast to reach over \$212 billion. This represents a 22% increase from the \$173 billion spent in 2024, a 29% increase compared with the nearly \$164 billion spent in 2023, and a nearly 50% hike compared to the \$146 billion invested in 2022.
- Aggregate energy utility investments are projected to hit new highs of \$222 billion in 2026, \$228 billion in 2027 and \$208 billion in 2028.

* * *

- While the aggregate energy capex forecast for 2029 drops to \$153 billion, the level is rather likely to rise significantly over time as utility companies solidify their future project plans throughout the remainder of 2025 and in the years ahead.²

As shown in Figure 2 below, capital expenditures for regulated utilities have increased considerably over 2024 and into 2025, and forecasted capital expenditures remain elevated through the end of 2027.

² S&P Global Market Intelligence, *RRA Financial Focus*: “Energy Utility Capex Predicted to Top \$1 trillion from 2025 through 2029, March 26, 2025, at 1.



As outlined in Figure 2 and in the comments made by *RRA S&P Global Market Intelligence*, capital investments for the utility industry continue to stay at elevated levels, and these capital expenditures are expected to fuel utilities’ profit growth into the foreseeable future. This is clear evidence that the capital investments are enhancing shareholder value and are attracting both equity and debt capital to the utility industry in a manner that is allowing utilities to fund their elevated capital plans.

Q HAVE REGULATED UTILITY EQUITY SECURITIES’ VALUATIONS SUPPORTED ACCESS TO EQUITY CAPITAL?

A Yes. Utility valuation metrics continue to demonstrate that utilities can sell new stock at robust market prices, which illustrates that utilities can access equity capital under reasonable terms and conditions and at relatively low cost.

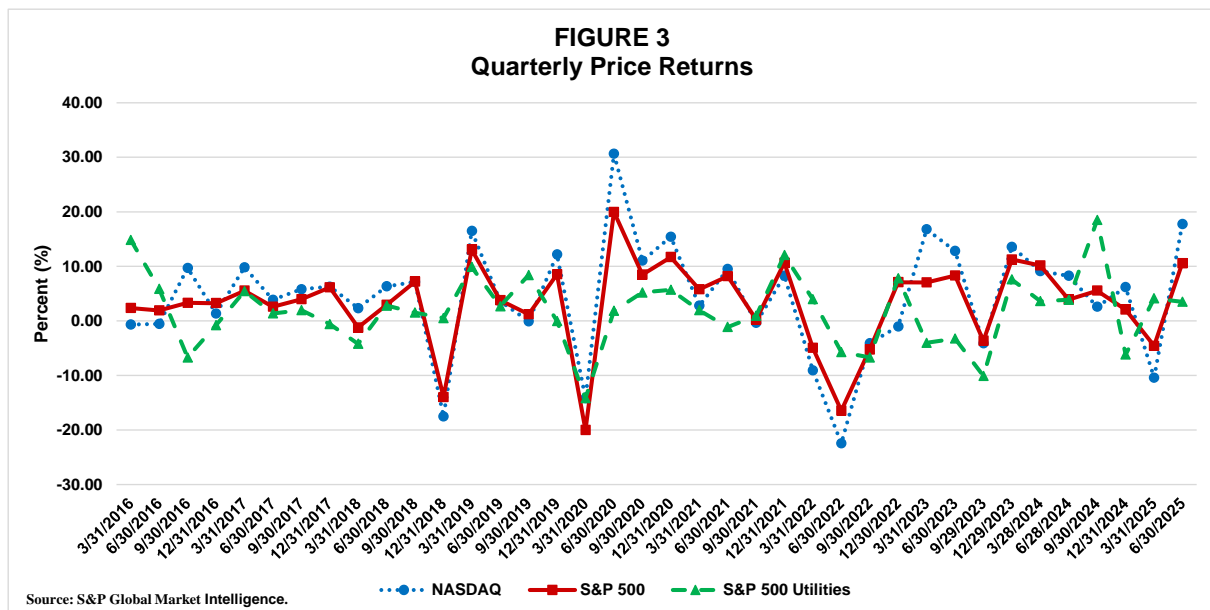
1 As shown on my Exhibit MPG-2, utility valuation metrics show robust valuation
2 of utility securities more recently compared to the historical period stretching back
3 to 2002. Specifically, *The Value Line Investment Survey* (“*Value Line*”) tracks and
4 projects various valuation metrics related to regulated utility securities, as well as certain
5 non-regulated companies followed by *Value Line*. These valuation metrics are
6 considered by market participants in assessing the investment risk characteristics of
7 individual company stocks and industries and are used by market participants to derive
8 their required rates of return for making investments. All of these valuation metrics for
9 utility stocks indicate robust valuations of utility stocks, which in turn supports my
10 finding that utilities’ cost of capital is low by historical comparison and utilities are
11 producing competitive returns.

12 For example, the *Value Line* electric utility industry price-to-earnings ratio of
13 17.87x for 2025 aligns with the 24-year average price-to-earnings ratio.
14 (Exhibit MPG-2, page 1). A consistently strong price-to-earnings ratio indicates stock
15 prices valuations are stable, which supports utilities’ access to external equity markets.

16 The market price-to-cash flow for electric utilities is currently 8.33x, and the
17 market-to-book ratio is 1.80x. These valuation metrics align with the historical average
18 valuation metrics, and indicate utilities continue to have access to equity capital markets.

Q PLEASE DESCRIBE GENERAL UTILITY STOCK PRICE PERFORMANCE OVER THE LAST SEVERAL YEARS.

A Figure 3 below shows the utility stock price performance compared to the overall market.



Over the last several years, the Standard & Poor’s (“S&P”) Utility index has tracked the overall market performance, but it exhibited much less volatility relative to the other market indices.

Q HAVE REGULATED UTILITIES MAINTAINED INVESTMENT GRADE CREDIT STRENGTH AND FINANCIAL INTEGRITY?

A Yes. Credit ratings are reasonable assessments of the utility industry’s financial integrity because they indicate the utility’s credit strength, which, in turn, provides strong evidence of the utility’s ability to attract the capital necessary to make infrastructure investments under reasonable terms and prices. Trends in credit ratings

are an indication of whether regulatory decisions have supported utilities' ability to generate adequate revenue to recover their costs, produce adequate cash flows, and maintain strong credit. The primary drivers in these regulatory decisions are the Commissions' awarded returns on equity and development of depreciation rates.

As shown in Table 1 below, electric utilities' credit standing has remained very robust through the Tax Cuts and Jobs Act (2017) changes and impacts on cash flow starting around 2018, through the COVID-19 pandemic, and into the present. As shown below in Table 1, from approximately 2016 through the first quarter of 2025, over 80% of the regulated electric utility industry has a bond rating of BBB+ or stronger.

| TABLE 1 | | | | | | | | | | | | |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| S&P Ratings by Category | | | | | | | | | | | | |
| <u>Electric Utility Subsidiaries</u> | | | | | | | | | | | | |
| <u>Description</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | <u>2019</u> | <u>2020</u> | <u>2021</u> | <u>2022</u> | <u>2023</u> | <u>2024</u> | <u>2025</u> |
| A or higher | 13% | 13% | 10% | 10% | 8% | 14% | 14% | 10% | 10% | 11% | 9% | 7% |
| A- | 26% | 34% | 43% | 52% | 54% | 54% | 53% | 37% | 37% | 37% | 33% | 35% |
| BBB+ | 28% | 24% | 32% | 21% | 22% | 18% | 19% | 35% | 36% | 37% | 45% | 41% |
| BBB | 23% | 18% | 4% | 7% | 13% | 12% | 3% | 16% | 16% | 15% | 12% | 13% |
| BBB- | 11% | 11% | 11% | 11% | 2% | 1% | 1% | 0% | 0% | 0% | 0% | 1% |
| Below BBB- | <u>0%</u> | <u>0%</u> | <u>0%</u> | <u>0%</u> | <u>0%</u> | <u>0%</u> | <u>10%</u> | <u>1%</u> | <u>1%</u> | <u>1%</u> | <u>2%</u> | <u>3%</u> |
| Total | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

Source: S&P CAPITAL IQ and Market Intelligence, downloaded 6/9/2025.
Note: Subsidiary ratings used.

1 **Q HOW SHOULD THE COMMISSION USE THIS MARKET INFORMATION IN**
2 **ASSESSING A FAIR RETURN FOR KU/LGE?**

3 A Observable market evidence is quite clear that capital market costs are relatively low. As
4 authorized returns have fluctuated around the mid-9% range over the past five years,
5 utilities continue to have access to large amounts of external capital while still funding
6 large capital programs. Furthermore, utilities' investment-grade credit ratings are stable
7 and have improved due, in part, to supportive regulatory treatment. The Commission
8 should carefully weigh all this important observable market evidence in assessing a fair
9 return on equity for KU/LGE.

10 **III.B. Federal Reserve's Impact on Cost of Capital**

11 **Q ARE THE MONETARY POLICY DECISIONS AND ACTIONS OF THE**
12 **FEDERAL RESERVE ("FED") AND OF THE FEDERAL RESERVE**
13 **SYSTEM'S FEDERAL OPEN MARKET COMMITTEE ("FOMC") KNOWN**
14 **TO MARKET PARTICIPANTS, AND IS IT REASONABLE TO BELIEVE**
15 **THOSE DECISIONS AND ACTIONS ARE REFLECTED IN THE MARKET'S**
16 **VALUATION OF BOTH DEBT AND EQUITY SECURITIES?**

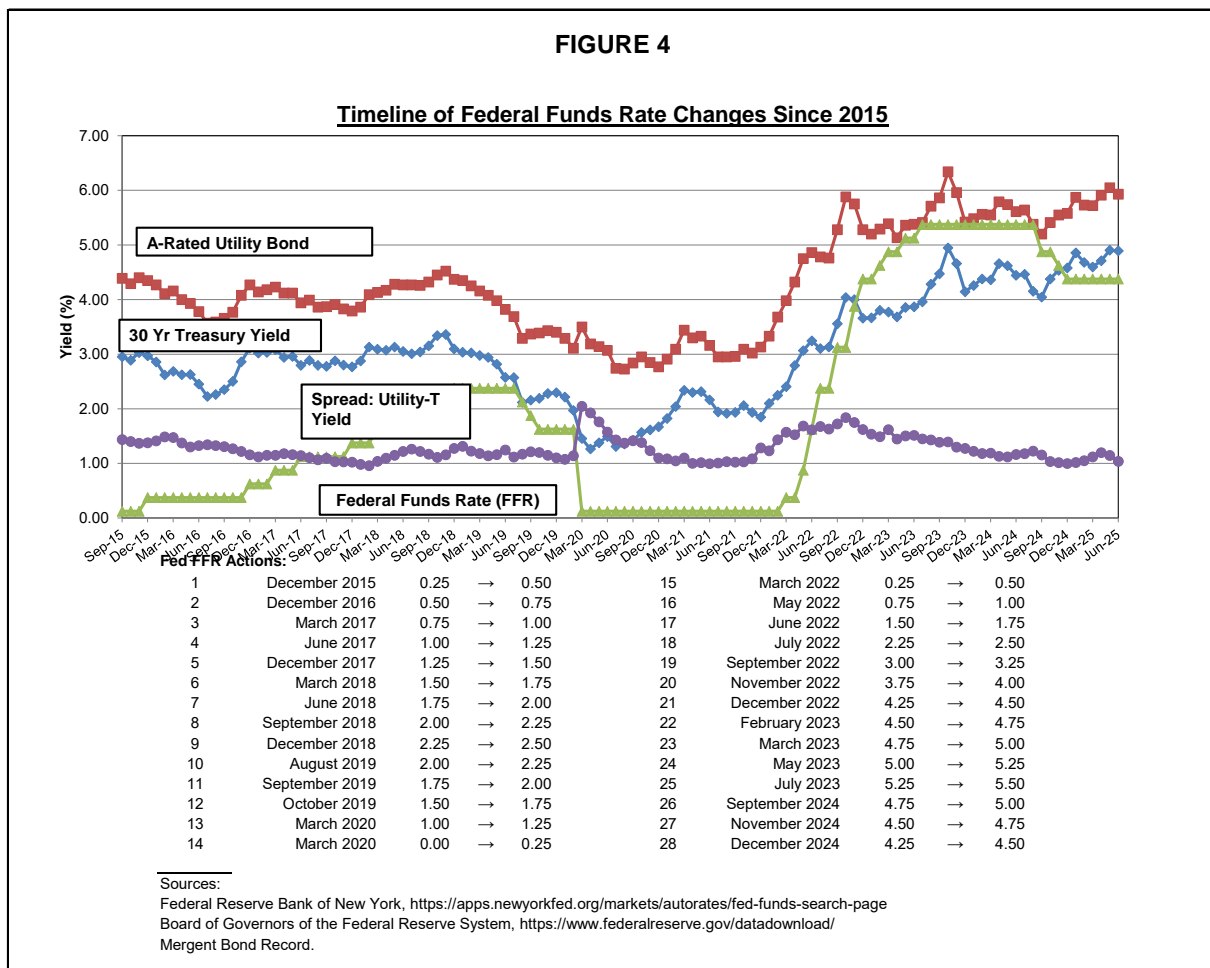
17 A Yes. The Fed has been transparent in its efforts to support the economy to achieve
18 maximum employment and to manage long-term inflation to around a 2% level. In a
19 June 18, 2025 press release, the Fed noted that economic activity has been expanding at
20 a solid pace, while labor market conditions remain solid, and the unemployment rate

1 remains low. Meanwhile, inflation is still slightly elevated. The Fed noted that
2 uncertainty about the economic outlook has diminished but remains elevated.

3 In its December 2024 meeting, the Committee lowered the target federal funds
4 rate to a range of 4.25%-4.50%, and the Fed decided to maintain the current target rate
5 in its June meeting. The Committee also stated that it will continue to closely monitor
6 economic activity before making any adjustments aimed at achieving the target 2%
7 inflation rate. The Fed noted that it will continue reducing its holdings of Treasury
8 securities, agency debt securities and agency mortgage-backed securities. In its June
9 18, 2025 press release, the Fed reiterated its strong commitment to returning inflation
10 toward the 2% target.³

11 The trend in the Fed's monetary actions on the FFR is shown in Figure 4.

³ Federal Reserve Press Release, Federal Reserve Issues FOMC Statement, June 18, 2025.



1 As shown in Figure 4 above, the FFR is currently in the 4.25% to 4.50% range
 2 and continues to remain higher than the rate prior to the economic effects of the
 3 worldwide pandemic starting around March/April of 2020.

4 **Q DO INDEPENDENT ECONOMISTS' OUTLOOKS FOR FUTURE INTEREST**
 5 **RATES REFLECT THE FED'S CURRENT MONETARY POLICY?**

6 **A** Yes. *Blue Chip Financial Forecast* tracked consensus economist that expected the Fed
 7 would reduce Federal Fund interest rates throughout 2025. That consensus economist
 8 outlook proved to be correct as illustrated in Figure 4 above.

These consensus economists' outlooks and projections of short-term FFR levels and of the U.S. economic outlook includes an expectation that inflation and interest rates will continue to decline in 2025, as illustrated below in Table 2.

| TABLE 2 | | | | | | | | | | | | |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Blue Chip Financial Forecasts | | | | | | | | | | | | |
| <u>Projected Federal Funds Rate, 30-Year Treasury Bond Yields, and GDP Price Index</u> | | | | | | | | | | | | |
| <u>Publication Date</u> | <u>1Q 2024</u> | <u>2Q 2024</u> | <u>3Q 2024</u> | <u>4Q 2024</u> | <u>1Q 2025</u> | <u>2Q 2025</u> | <u>3Q 2025</u> | <u>4Q 2025</u> | <u>1Q 2026</u> | <u>2Q 2026</u> | <u>3Q 2026</u> | <u>4Q 2026</u> |
| <u>Federal Funds Rate</u> | | | | | | | | | | | | |
| Jul-24 | | 5.3 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.9 | | | | |
| Aug-24 | | 5.3 | 5.3 | 5.0 | 4.7 | 4.4 | 4.1 | 3.9 | | | | |
| Sep-24 | | 5.3 | 5.2 | 4.8 | 4.4 | 4.0 | 3.8 | 3.6 | | | | |
| Oct-24 | | | 5.3 | 4.6 | 4.1 | 3.8 | 3.5 | 3.3 | 3.3 | | | |
| Nov-24 | | | 5.3 | 4.6 | 4.1 | 3.8 | 3.5 | 3.3 | 3.2 | | | |
| Dec-24 | | | 5.3 | 4.6 | 4.2 | 3.9 | 3.7 | 3.6 | 3.5 | | | |
| Jan-25 | | | | 4.7 | 4.3 | 4.1 | 3.9 | 3.8 | 3.7 | 3.5 | | |
| Feb-25 | | | | 4.7 | 4.3 | 4.2 | 4.0 | 3.9 | 3.8 | 3.6 | | |
| Mar-25 | | | | 4.7 | 4.4 | 4.3 | 4.1 | 4.0 | 3.9 | 3.8 | | |
| Apr-25 | | | | | 4.3 | 4.3 | 4.2 | 4.0 | 3.8 | 3.7 | 3.6 | |
| May-25 | | | | | 4.3 | 4.3 | 4.1 | 3.9 | 3.6 | 3.4 | 3.3 | |
| Jun-25 | | | | | 4.3 | 4.3 | 4.2 | 3.9 | 3.7 | 3.5 | 3.4 | |
| Jul-25 | | | | | | 4.3 | 4.3 | 4.1 | 3.8 | 3.6 | 3.4 | 3.3 |
| <u>T-Bond, 30 yr.</u> | | | | | | | | | | | | |
| Jul-24 | | 4.6 | 4.5 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | | | | |
| Aug-24 | | 4.6 | 4.5 | 4.4 | 4.4 | 4.3 | 4.3 | 4.3 | | | | |
| Sep-24 | | 4.6 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | | | | |
| Oct-24 | | | 4.2 | 4.1 | 4.0 | 4.0 | 4.0 | 4.1 | 4.0 | | | |
| Nov-24 | | | 4.2 | 4.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | | | |
| Dec-24 | | | 4.2 | 4.5 | 4.5 | 4.4 | 4.4 | 4.4 | 4.4 | | | |
| Jan-25 | | | | 4.5 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.4 | | |
| Feb-25 | | | | 4.5 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.6 | | |
| Mar-25 | | | | 4.5 | 4.7 | 4.7 | 4.7 | 4.6 | 4.6 | 4.6 | | |
| Apr-25 | | | | | 4.7 | 4.6 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | |
| May-25 | | | | | 4.7 | 4.6 | 4.5 | 4.5 | 4.4 | 4.4 | 4.4 | |
| Jun-25 | | | | | 4.7 | 4.8 | 4.7 | 4.6 | 4.6 | 4.6 | 4.5 | |
| Jul-25 | | | | | | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 | 4.6 | 4.6 |
| <u>GDP Price Index</u> | | | | | | | | | | | | |
| Jul-24 | | 2.8 | 2.3 | 2.3 | 2.4 | 2.2 | 2.2 | 2.1 | | | | |
| Aug-24 | | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | | | | |
| Sep-24 | | 2.5 | 2.2 | 2.2 | 2.3 | 2.2 | 2.2 | 2.1 | | | | |
| Oct-24 | | | 2.2 | 2.0 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | | | |
| Nov-24 | | | 1.8 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | 2.2 | | | |
| Dec-24 | | | 1.8 | 2.2 | 2.3 | 2.2 | 2.2 | 2.3 | 2.3 | | | |
| Jan-25 | | | | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.1 | | |
| Feb-25 | | | | 2.2 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.1 | | |
| Mar-25 | | | | 2.4 | 2.7 | 2.5 | 2.5 | 2.5 | 2.5 | 2.2 | | |
| Apr-25 | | | | | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 2.1 | 2.2 | |
| May-25 | | | | | 3.7 | 3.4 | 3.2 | 2.9 | 2.6 | 2.3 | 2.3 | |
| Jun-25 | | | | | 3.7 | 2.9 | 3.4 | 2.8 | 2.6 | 2.2 | 2.3 | |
| Jul-25 | | | | | | 2.9 | 3.3 | 2.9 | 2.6 | 2.2 | 2.2 | 2.2 |
| Source and Note: | | | | | | | | | | | | |
| Blue Chip Financial Forecasts, July 2024 through July 2025. | | | | | | | | | | | | |
| Actual Yields in Bold. | | | | | | | | | | | | |

Moreover, the current outlook for long-term interest rates in the intermediate to longer-term is also impacted by the Fed's current actions and the expectation that eventually the Fed's monetary actions will return to more normal levels. Long-term interest rate projections are illustrated in Table 3.

| TABLE 3 | | | |
|--|----------------------|-------------------------------------|---|
| <u>30-Year Treasury Bond Yield Actual Vs. Projection</u> | | | |
| <u>Description</u> | <u>Actual</u> | <u>2-Year Projected*</u> | <u>5- to 10-Year Projected</u> |
| <u>2019</u> | | | |
| Q1 | 3.01% | 3.50% | |
| Q2 | 2.78% | 3.17% | 3.6% - 3.8% |
| Q3 | 2.30% | 2.70% | |
| Q4 | 2.30% | 2.50% | 3.2% - 3.7% |
| <u>2020</u> | | | |
| Q1 | 1.88% | 2.57% | |
| Q2 | 1.38% | 1.90% | 3.0% - 3.8% |
| Q3 | 1.36% | 1.87% | |
| Q4 | 1.62% | 1.97% | 2.8% - 3.6% |
| <u>2021</u> | | | |
| Q1 | 2.07% | 2.23% | |
| Q2 | 2.26% | 2.77% | 3.5% - 3.9% |
| Q3 | 1.93% | 2.63% | |
| Q4 | 1.95% | 2.70% | 3.4% - 3.8% |
| <u>2022</u> | | | |
| Q1 | 2.25% | 2.87% | |
| Q2 | 3.04% | 3.47% | 3.8% - 3.9% |
| Q3 | 3.26% | 3.63% | |
| Q4 | 3.90% | 3.87% | 3.9% - 4.0% |
| <u>2023</u> | | | |
| Q1 | 3.74% | 3.77% | |
| Q2 | 3.80% | 3.70% | 3.8% - 3.9% |
| Q3 | 4.24% | 3.83% | |
| Q4 | 4.58% | 4.17% | 4.1% - 4.2% |
| <u>2024</u> | | | |
| Q1 | 4.33% | 4.03% | |
| Q2 | 4.57% | 4.17% | 4.3% - 4.4% |
| Q3 | 4.22% | 4.20% | |
| Q4 | 4.50% | 4.20% | 4.3% - 4.2% |
| <u>2025</u> | | | |
| Q1 | 4.71% | 4.53% | |
| Source and Note: | | | |
| <i>Blue Chip Financial Forecasts</i> , January 2019 through June 2025. | | | |
| *Average of all 3 reports in Quarter. | | | |

1 **III.C. Utility Industry Credit Outlook**

2 **Q PLEASE DESCRIBE THE CREDIT RATING OUTLOOK FOR REGULATED**
3 **UTILITIES.**

4 **A** In S&P's, *Industry Credit Outlook 2025*, (dated January 14, 2025), it comments that
5 North American regulated utilities' credit quality remains under pressure. In that report,
6 it makes the following points:

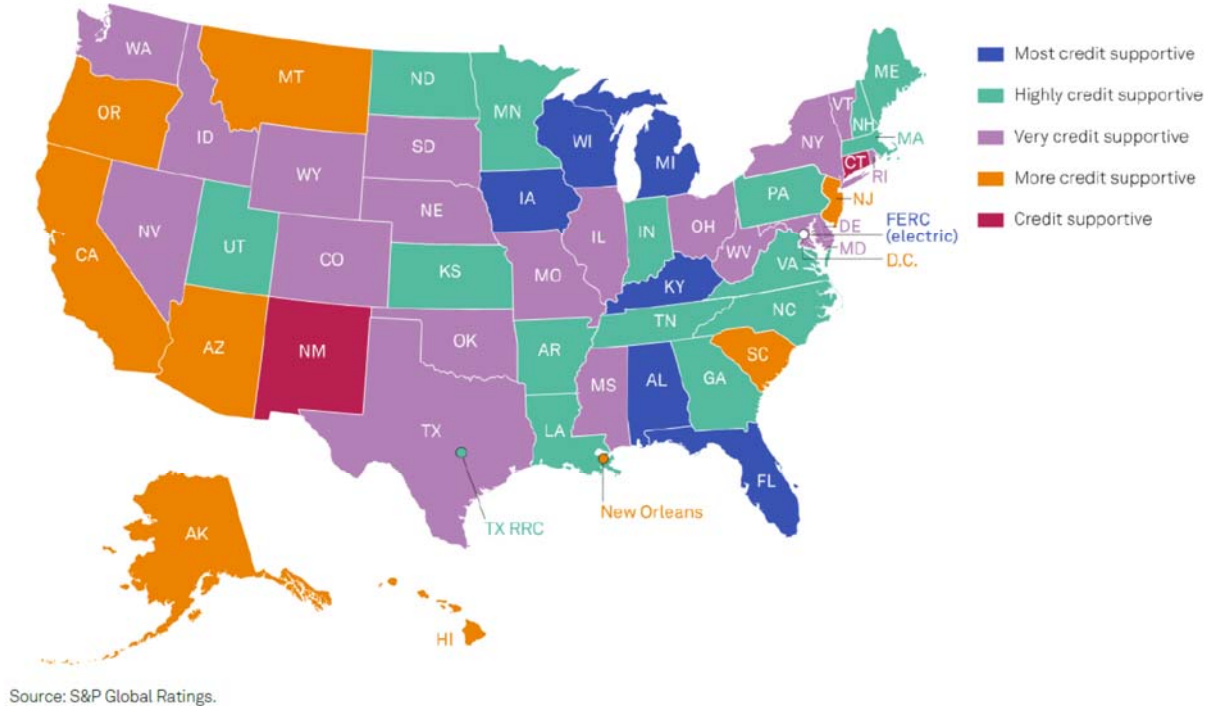
- 7 1. Credit quality remains pressured due to natural disaster risks to infrastructure
8 and record levels of capital spending.
- 9 2. S&P's outlook reflects its expectation of continued large capital spending,
10 with consistent access to capital markets supported by continued supportive
11 utility regulatory treatment.
- 12 3. The expectation that utilities will manage credit metrics by funding large
13 capital spending with balanced amounts of debt and equity funding; and
- 14 4. Managing regulatory risk is especially highlighted during the large capital
15 spending periods because utilities must prioritize rate affordability and the
16 impacts on customer bills through this period.

17 S&P notes that around 71% of the industry has stable credit rating outlooks,
18 and the industry median credit rating remains in the BBB+ category.

19 S&P emphasizes the importance of effective "management of customer bill."⁴
20 From that standpoint, the credit rating agency provides a clear description of its
21 assessment of regulatory treatment of utilities across the various jurisdictions. S&P's
22 regulatory risk rating of U.S. jurisdictions is illustrated below.

⁴ S&P Global, *Ratings Industry Credit Outlook 2025: North American Regulated Utilities*, January 14, 2025, at 11.

FIGURE 5
Regulatory Assessment by State⁵



As outlined in Figure 5 above, the KPSC’s jurisdiction is noted as “Most Credit Supportive.” The Commission’s rating reflects confidence from the investment community that the approved regulatory mechanisms support utilities’ ability to fully recover their cost of service, under efficient and economic management.

⁵ *Id.* at 9.

1 **Q HAVE CREDIT RATING AGENCIES STATED CONCERNS ABOUT RATE**
2 **AFFORDABILITY AS A CREDIT RISK TO UTILITIES?**

3 A Yes. Credit rating agencies have been emphasizing rate affordability, maintaining
4 adequate financial coverage of debt obligations, and supporting utilities’ overall
5 investment grade bond ratings.

6 Even though Moody’s Investor Services (“Moody’s”) credit outlook for electric
7 and gas utilities’ is now “stable,” the credit rating agency is concerned with the
8 increased pricing pressures on customers. Specifically, Moody’s stated the following:

9 As power supply ramps up to meet rising load forecasts, the potential for
10 higher electricity prices may leave US regulated utilities with greater
11 credit exposure to social risk. Although natural gas prices have declined
12 from their recent peak in 2022 and interest rates have stabilized and
13 appear likely to fall, electricity prices will continue to rise in some
14 regions to pay for elevated utility investments to upgrade aging
15 infrastructure and harden networks to withstand extreme weather events.
16 Over the longer term, rising baseload power demand from the
17 proliferation of data centers, growing industrial needs and electrification
18 will apply further upward pressure on electricity prices.

19 Affordability is a key credit consideration and social risk for regulated
20 electric and gas utilities because their rates are subject to a public
21 regulatory process that can sometimes lead to adverse outcomes if
22 regulators feel that customers have become too burdened...⁶

23 Similarly, Fitch Ratings (“Fitch”) opined that the regulated electric and gas
24 utilities’ outlook is deteriorating due to elevated capital expenditures, which puts
25 pressure on credit metrics. Fitch also notes the bill affordability concerns for ratepayers,
26 generally, and regulators’ ability to balance the rate requests with increasing customer
27 bills.

⁶ *Moody’s Investors Service Outlook*: “Regulated Electric and Gas Utilities – US, “Potential for higher energy costs spurs efforts to address affordability concerns,” September 11, 2024, at 1 (emphasis added).

Specifically, Fitch states:

Fitch Ratings' deteriorating outlook for the North American Utilities, Power & Gas sector reflects continuing return on equity headwinds and elevated capex that are putting pressure on credit metrics in the high-cost funding environment. Bill affordability concerns for ratepayers continue to persist despite the pull back in natural gas prices and inflationary pressures.⁷

As outlined by Moody's, S&P and Fitch above, credit analysts are focusing on rate affordability as an important factor needed to support strong credit standing. This is simply because customers must be able to afford to pay their utility bills for utilities to maintain their financial integrity and strong investment grade credit standing. For this reason, the Commission should carefully assess the reasonableness of cost of service in this proceeding, including an appropriate overall rate of return and a return on equity that represents fair compensation but also maintains competitive, just and reasonable rates.

II.D. KU/LGE's Investment Risk

Q PLEASE DESCRIBE THE MARKET'S ASSESSMENT OF KU'S AND LGE'S INVESTMENT RISK.

A The market's assessment of each utilities investment risk is described by credit rating analysts' reports.

⁷ Fitch Ratings, *North American Utilities, Power & Gas Outlook 2024* December 6, 2023, at 1 (emphasis added).

1 KU Investment Risk

2 KU is rated A- with a “Stable” outlook from S&P and A3 with a “Stable”
3 outlook from Moody’s.

4 S&P makes the following statements about KU’s credit risk assessment:

5 **Outlook**

6 The stable rating outlook on KU reflects that of its ultimate parent, PPL
7 Corp., which we base on our expectation that PPL Corp.’s business risk
8 profile will not weaken, and the parent’s consolidated financial measures
9 will remain stable. Specifically, we expect PPL Corp.’s FFO to debt will
10 be in the 16%-18% range through the outlook period.

11 * * *

12 **Business Risk**

13 KU’s business risk profile is based on our assessment of the company’s
14 regulated vertically integrated electric utility operations under
15 Kentucky’s generally constructive regulatory framework, which
16 provides for the timely recovery of approved capital expenditures. KU
17 has moderate scale, with 573,000 customers and limited geographic
18 diversity, because it operates almost entirely in Kentucky. It generates
19 about 60%-65% revenues from residential and commercial customers,
20 which can insulate the company from fluctuations in electricity demand
21 and supports relatively stable operating cash flow.

22 The company has generation capacity of about 4,800 MW, including
23 sizable coal-fired capacity. KU has been upgrading coal units to comply
24 with environmental regulations. It can recover the costs for these
25 upgrades through an environmental cost-recovery mechanism, which
26 limits regulatory lag and supports the credit profile. Under KPSC
27 regulation, the company benefits from other recovery mechanisms such
28 as a pass-through fuel cost and a purchased-power cost-recovery rider.
29 These mechanisms help stabilize the company’s operating cash flow.
30 Moreover, KU’s low-cost generation and efficient operations contribute
31 to competitive rates for customers.

32 * * *

33 **Financial Risk**

34 Under our base-case scenario, we project that KU’s adjusted FFO to debt
35 will average about 18% over the next two years. Over the next few years,

1 we expect KU's credit measures will benefit from the use of regulatory
2 mechanisms to recover invested capital cost. We expect continued
3 capital spending averaging close to \$1 billion each in 2025 and 2026,
4 which, when combined with the utility's dividend, will result in negative
5 discretionary cash flow. We expect the deficit will be partially funded
6 with debt. We expect debt leverage will be relatively modest for a
7 regulated utility as indicated by debt to EBITDA in the 4.0x-4.5x range
8 over the next few years. Bolstering the financial risk profile
9 determination is the supplemental ratio of adjusted FFO cash interest
10 coverage averaging about 5.5x.

11 We assess KU's financial risk profile using our medial volatility
12 financial benchmarks, reflecting lower-risk regulated utility operations
13 and effective management of regulatory risk. These benchmarks are
14 more relaxed than those used for typical corporate issuers.⁸

15 LGE's Investment Risk

16 LGE is rated A- with a "Stable" outlook from S&P and A3 with a "Stable"
17 outlook from Moody's.

18 S&P makes the following assertions about KU's credit risk assessment:

19 **Outlook**

20 The stable outlook on LG&E reflects our stable outlook on its ultimate
21 parent, PPL Corp. We base this on our expectation that the parent's
22 business risk profile will not weaken and consolidated financial
23 measures will remain stable. Specifically, we expect PPL Corp.'s FFO
24 to debt will remain in the 16%-18% range through 2025.

25 * * *

26 **Business Risk**

27 Our assessment of LG&E's business risk profile primarily reflects the
28 company's regulated operations, which comprise vertically integrated
29 electric and natural gas distribution utilities, as well as Kentucky's
30 generally constructive regulatory framework.

31 * * *

⁸*Standard & Poor's RatingsDirect®*: Full Analysis: "Kentucky Utilities Company," January 24, 2025, (emphasize added).

1 The company has about 2,800 MW of generation capacity, including
2 sizable coal-fired generation that contributes nearly 70% of its total
3 generation capacity. There is greater operating risk from these generation
4 assets than LG&E's transmission and distribution operations. The
5 company has been upgrading its coal-fired generation plants to comply
6 with environmental regulations. While the capital costs for these
7 upgrades continue, they have diminished over time and now account for
8 about 10% of the total \$6.4 billion capex amount (2024-2027). LG&E
9 can recover these costs through the environmental cost-recovery
10 mechanism, which limits the company's regulatory lag and supports its
11 credit profile. The company is regulated by the KPSC and benefits from
12 other mechanisms, such as a gas line tracker and a pass-through fuel cost
13 mechanism, which help stabilize its operating cash flow. Moreover,
14 LG&E's low-cost generation and efficient operations contribute to the
15 overall competitive rates the company offers its customers.

16 * * *

17 **Financial Risk**

18 Under our base-case scenario, we assume LG&E's FFO to debt (S&P
19 Global Ratings'-adjusted) will be in the 19%-22% range through 2026.
20 We expect stability because the company benefits from recovery
21 mechanisms, such as the environmental cost rider, as well as formulaic
22 transmission rates and forward test years for rate cases. LG&E's ongoing
23 discretionary cash flow deficits because of its heightened capital
24 spending, which we expect it will fund at least partially with debt, offset
25 these strengths. We anticipate the company's debt to EBITDA will be in
26 the 3.5x-4.0x range through 2026. LG&E's supplemental FFO cash
27 interest coverage ratio, which we expect will be in the range of 6.0x-6.5x
28 through 2026, further bolsters the financial risk profile.

29 We assess LG&E's financial risk profile using our medial volatility
30 financial benchmarks, reflecting lower risk regulated utility operations
31 and effective management of regulatory risk. These benchmarks are
32 more relaxed than those used for typical corporate issuers.⁹

⁹Standard & Poor's RatingsDirect®: Full Analysis: "Louisville Gas & Electric Company," January 24, 2025, (emphasize added).

II.E. KU/LGE's Proposed Capital Structure

Q WHAT IS KU/LGE'S PROPOSED CAPITAL STRUCTURE?

A KU and LGE's proposed capital structures is sponsored by its witness Julissa Burgos and shown in Table 4 below.

| TABLE 4 | | |
|---|------------------|-------------------|
| <u>KU/LGE's Proposed Capital Structure</u> (December 31, 2026) | | |
| <u>Description</u> | <u>KU</u> | <u>LGE</u> |
| Short-Term Debt | 2.55% | 1.71% |
| Long-Term Debt | 44.60% | 45.36% |
| Common Equity | <u>52.86%</u> | <u>52.93%</u> |
| Total | 100.00% | 100.00% |
| Source: Schedule J-1.1/J-1.2. | | |

Q ARE KU/LGE'S PROPOSED RATEMAKING CAPITAL STRUCTURE WEIGHTS OF COMMON EQUITY AND DEBT GENERALLY CONSISTENT WITH THE INDUSTRY AUTHORIZED RATEMAKING CAPITAL STRUCTURES?

A No. KU/LGE's proposed ratemaking capital structures contain a higher percentage of common equity to total capital than the industry average and median capital structure that is approved for setting rates. The industry average and median authorized ratemaking capital structure equity ratio over the last 10 years is shown in Table 1 below.

| TABLE 5 | | | | | |
|--|-------------|-----------------------------|---------------|--------------------------------|---------------|
| <u>Trends in State Authorized Common Equity Ratios</u> | | | | | |
| (Industry) | | | | | |
| <u>Line</u> | <u>Year</u> | <u>Electric¹</u> | | <u>Natural Gas¹</u> | |
| | | <u>Average</u> | <u>Median</u> | <u>Average</u> | <u>Median</u> |
| | (1) | (2) | (3) | (4) | (5) |
| 1 | 2013 | 50.12% | 51.03% | 51.16% | 50.43% |
| 2 | 2014 | 50.28% | 50.00% | 51.90% | 51.99% |
| 3 | 2015 | 49.89% | 50.47% | 49.79% | 50.33% |
| 1 | 2016 | 49.70% | 49.99% | 51.85% | 51.35% |
| 2 | 2017 | 50.02% | 49.85% | 51.13% | 51.76% |
| 3 | 2018 | 50.60% | 50.23% | 51.56% | 51.51% |
| 4 | 2019 | 51.55% | 51.37% | 52.81% | 52.42% |
| 5 | 2020 | 50.93% | 51.17% | 52.34% | 52.00% |
| 6 | 2021 | 51.01% | 52.00% | 51.90% | 52.00% |
| 7 | 2022 | 51.57% | 51.92% | 51.65% | 52.00% |
| 8 | 2023 | 51.59% | 52.27% | 52.45% | 52.00% |
| 9 | 2024 | 51.07% | 52.10% | 52.25% | 52.40% |
| 10 | 2025 | 50.53% | 51.12% | 50.13% | 49.75% |
| 11 | Average | 50.68% | 51.04% | 51.61% | 51.53% |
| 12 | Median | 50.60% | 51.12% | 51.85% | 51.99% |

Source and Notes:

¹ S&P Global Market Intelligence, data through March 31, 2025.

- Excludes Arkansas, Florida, Indiana and Michigan because they include non-investor capital.

1 As shown above in Table 5, the industry average and median common equity ratios

2 for electric utilities over the last 10 years have been consistently around 50.0% - 52.0%.

3 KU/LGE's proposed ratemaking capital structure of almost 53% contain more equity than

4 typically approved for setting rates.

1 **Q DOES SETTING RATES USING A RATEMAKING CAPITAL STRUCTURE**
2 **WITH AN UNNECESSARILY LARGE COMMON EQUITY RATIO OF**
3 **TOTAL CAPITAL IMPACT A UTILITY’S ABILITY TO KEEP RATES**
4 **AFFORDABLE?**

5 **A Yes.** Common equity is the most expensive form of capital and is subject to income tax
6 expense. Therefore, the revenue requirement cost to customers of a capital structure
7 with a 9.5% return on equity and a 21% tax rate would be approximately 12.0%.¹⁰ In
8 contrast, the marginal cost of debt right now for a Baa utility is around 5.5%. As such,
9 utility common equity capital is more than twice (12.0% vs. 5.5%) as expensive as debt
10 capital.

11 A utility must finance with a balance of debt and equity in order to produce a
12 capital structure that minimizes its cost of capital while preserving its financial integrity
13 and access to capital. A financial structure too heavily financed with debt would reflect
14 excessive financial risk and would erode the utility’s credit standing, likely impairing
15 its access to capital under certain market conditions. Conversely, a capital structure too
16 heavily weighted with common equity reflects too little financial risk and will increase
17 the utility’s overall rate of return with little to no benefit to retail customers. Therefore,
18 a capital structure should reflect a reasonable balance of debt and equity in order to
19 minimize the utility’s cost of capital, preserve its access to capital markets under
20 reasonable terms and prices, and support its financial integrity.

¹⁰ $9.5\% \times (1/(1 - 21\%))$.

1 **Q WHAT CAPITAL STRUCTURE DO YOU RECOMMEND THE COMMISSION**
2 **APPROVE FOR SETTING KU/LGE'S RATES IN THIS PROCEEDING?**

3 A I find the Companies' proposed ratemaking capital structure contains common equity
4 ratios that are greater than necessary to support the utilities' financial integrity and credit
5 standing. This will be discussed in more detail below concerning my financial integrity
6 study for these utilities. However, that the Companies' proposed ratemaking capital
7 structure contains above industry average common equity ratios implies that these
8 utilities are being operated with below industry average financial risk. Consequently, I
9 will consider the higher cost to customers to lower KU/LGE's financial risk
10 recommending my authorized return on equity.

11 **II.F. Embedded Cost of Debt**

12 **Q WHAT IS KU'S EMBEDDED COST OF SHORT-TERM AND LONG-TERM**
13 **DEBT?**

14 A KU's embedded costs of short-term and long-term debt are 4.46% and 4.93%, as
15 developed on Schedule J-2 and J-3 and discussed in the direct testimony of Ms. Burgos.
16 I have used the Company's proposed costs of short-term and long-term debt in the
17 development of my overall rate of return.

1 **Q WHAT IS LGE’S EMBEDDED COST OF SHORT-TERM AND LONG-TERM**
2 **DEBT?**

3 A LGE’s embedded costs of short-term and long-term debt are 4.46% and 4.95%, as
4 developed on Schedule J-2 and J-3 and discussed in the direct testimony of Ms. Burgos.
5 I have used the Company’s proposed costs of short-term and long-term debt in the
6 development of my overall rate of return.

7 **III. RETURN ON EQUITY**

8 **Q PLEASE DESCRIBE WHAT IS MEANT BY A “UTILITY’S COST OF**
9 **COMMON EQUITY.”**

10 A A utility’s cost of common equity is the expected return that investors require on an
11 investment in the utility. Investors expect to earn their required return from receiving
12 dividends and through stock price appreciation.

13 **Q PLEASE DESCRIBE THE FRAMEWORK FOR DETERMINING A**
14 **REGULATED UTILITY’S COST OF COMMON EQUITY.**

15 A In general, determining a fair cost of common equity for a regulated utility has been
16 framed by two hallmark decisions of the U.S. Supreme Court: *Bluefield Water Works*
17 *& Improvement Co. v. Pub. Serv. Comm’n of W. Va.*, 262 U.S. 679 (1923) and *Fed.*
18 *Power Comm’n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944). In these decisions, the
19 U.S. Supreme Court found that just compensation depends on many circumstances and
20 must be determined by fair and enlightened judgments based on relevant facts. The

1 U.S. Supreme Court found that a utility is entitled to such rates as were permitted to
2 earn a return on its property devoted to the convenience of the public that is generally
3 consistent with the same returns available in other investments of corresponding risk.
4 The Court continued that the utility has no constitutional rights to profits, such as those
5 realized or anticipated in highly profitable enterprises or speculative ventures, and
6 defined the ratepayer/investor balance as follows:

7 The return should be reasonably sufficient to assure confidence in the
8 financial soundness of the utility and should be adequate, under efficient
9 and economical management, to maintain and support its credit and
10 enable it to raise the money necessary for the proper discharge of its
11 public duties.¹¹

12 As such, a fair rate of return is based on the expectation that the utility's costs
13 reflect efficient and economical management, and the return will support its credit
14 standing and access to capital without being in excess of this level. From these
15 standards, rates to customers will be just and reasonable, and, under economic
16 management, compensation to the utility will be fair and support its financial integrity
17 and credit standing.

¹¹ *Bluefield*, 262 U.S. 679, 693 (1923), emphasis added.

1 **III.A. Risk Proxy Group**

2 **Q PLEASE DESCRIBE HOW YOU IDENTIFIED A PROXY UTILITY GROUP**
3 **THAT COULD BE USED TO ESTIMATE KU/LGE'S CURRENT MARKET**
4 **COST OF EQUITY.**

5 A To estimate the return on equity for the Utilities, Mr. D'Ascendis relied on an electric
6 proxy group for KU and a combination of electric and gas groups for LGE. I relied on
7 the same proxy groups developed by KU/LGE witness Mr. D'Ascendis with one
8 exception. I excluded TXNM Energy because it entered into an agreement to be
9 acquired by Blackstone Energy for \$11.5 billion. I believe my proxy groups have
10 reasonably comparable total investment risk to KU/LGE.

11 **Q PLEASE DESCRIBE WHY YOU BELIEVE YOUR ELECTRIC PROXY**
12 **GROUP IS REASONABLY COMPARABLE IN INVESTMENT RISK TO**
13 **KU/LGE.**

14 A My electric proxy group is shown in Exhibit MPG-3. The electric proxy group has an
15 average credit rating from S&P of BBB+, which is a notch lower than KU/LGE's credit
16 rating of A- from S&P. The proxy group has an average Moody's credit rating of Baa2,
17 which is two notches lower than KU/LGE's credit rating of A3 from Moody.¹²

18 The proxy group has an average common equity ratio of 39.2% from S&P
19 (including short-term debt) and a 43.2% equity ratio from *Value Line* (excluding
20 short-term debt). The Companies' proposed ratemaking capital structure equity ratio of

¹² Burgos Direct Testimony at 5.

52.9% is higher than the average proxy group common equity ratio. I believe my electric proxy group will produce conservative return on equity estimates.

Q PLEASE DESCRIBE WHY YOU BELIEVE YOUR GAS PROXY GROUP IS REASONABLY COMPARABLE IN INVESTMENT RISK TO LGE.

A My gas proxy group is also shown in Exhibit MPG-3. The gas proxy group has an average credit rating from S&P of BBB+, which is a notch lower than LGE's credit rating of A- from S&P. The proxy group has an average Moody's credit rating of A3, which is identical to LGE's credit rating from Moody.¹³

The proxy group has an average common equity ratio of 42.9% from S&P (including short-term debt) and a 48.7% equity ratio from *Value Line* (excluding short-term debt). The Companies' proposed ratemaking capital structure equity ratio of 52.9% is higher than the average proxy group common equity ratio. I believe my gas proxy group will produce conservative return on equity estimates.

Q PLEASE DESCRIBE WHY YOU BELIEVE YOUR COMBINATION PROXY GROUP IS REASONABLY COMPARABLE IN INVESTMENT RISK TO KU/LGE.

A My combination proxy group is also shown in Exhibit MPG-3. The combination proxy group has an average credit rating from S&P of BBB+, which is a notch lower than KU/LGE's credit rating of A- from S&P. The proxy group has an average Moody's

¹³ Burgos Direct Testimony at 5.

1 credit rating of Baa1, which is also a notch lower than KU/LGE's credit rating of A3
2 from Moody.¹⁴

3 The proxy group has an average common equity ratio of 40.4% from S&P
4 (including short-term debt) and a 45.0% equity ratio from *Value Line* (excluding
5 short-term debt). The Companies' proposed ratemaking capital structure equity ratio of
6 52.9% is higher than the average proxy group common equity ratio. I believe my
7 combination proxy group will produce conservative return on equity estimates.

8 **III.B. Discounted Cash Flow ("DCF") Model**

9 **Q PLEASE DESCRIBE THE DCF MODEL.**

10 A The DCF model posits that a stock price is valued by summing the present value of
11 expected future cash flows discounted at the investor's required rate of return or cost of
12 capital. This model is expressed mathematically as follows:

$$13 \quad P_0 = \frac{D_1}{(1+K)^1} + \frac{D_2}{(1+K)^2} + \dots + \frac{D_\infty}{(1+K)^\infty} \quad (\text{Equation 1})$$

14

15 P_0 = Current stock price

16 D = Dividends in periods 1 - ∞

17 K = Investor's required return

18 This model can be rearranged to estimate the discount rate or investor-required
19 return, known as "K." If it is reasonable to assume that earnings and dividends will
20 grow at a constant rate, then Equation 1 can be rearranged as follows:

¹⁴ Burgos Direct Testimony at 5.

$$K = D_1/P_0 + G \quad (\text{Equation 2})$$

K = Investor's required return

D_1 = Dividend in first year

P_0 = Current stock price

G = Expected constant dividend growth rate

Equation 2 is referred to as the annual “constant growth” DCF model.

Q PLEASE DESCRIBE THE INPUTS TO YOUR CONSTANT GROWTH DCF MODEL.

A As shown in Equation 2 above, the DCF model requires a current stock price, expected dividend, and expected growth rate in dividends.

Q WHAT STOCK PRICE DID YOU USE IN YOUR CONSTANT GROWTH DCF MODEL?

A I relied on the average of the weekly high and low stock prices of the utilities in the proxy group over a 13-week period ending on July 18, 2025. An average stock price is less susceptible to market price variations than a price at a single point in time. Therefore, an average stock price minimizes the impact of aberrant market price movements, which may not reflect the stock's long-term value.

A 13-week average stock price reflects a period that is still short enough to contain data that reasonably reflects current market expectations, but the period is not so short as to be susceptible to market price variations that may not reflect the stock's long-term value. In my judgment, a 13-week average stock price is a reasonable balance

1 between the need to reflect current market expectations and the need to capture
2 sufficient data to smooth out aberrant market movements.

3 **Q WHAT DIVIDEND DID YOU USE IN YOUR CONSTANT GROWTH DCF**
4 **MODEL?**

5 A I used the most recently paid quarterly dividend, as reported in *Value Line*.¹⁵ This
6 dividend was annualized (multiplied by 4) and adjusted for next year's growth to
7 produce the D_1 factor for use in Equation 2 above. In other words, I calculate D_1 by
8 multiplying the annualized dividend (D_0) by $(1+G)$.

9 **Q WHAT DIVIDEND GROWTH RATES DID YOU USE IN YOUR CONSTANT**
10 **GROWTH DCF MODEL?**

11 A There are several methods that can be used to estimate the expected growth in dividends.
12 However, regardless of the method, to determine the market-required return on common
13 equity, one must attempt to estimate investors' consensus about what the dividend, or
14 earnings growth rate, will be and not what an individual investor or analyst may use to
15 make individual investment decisions.

16 As predictors of future returns, securities analysts' growth estimates have been
17 shown to be more accurate than growth rates derived from historical data.¹⁶ That is,
18 assuming the market generally makes rational investment decisions, analysts' growth

¹⁵ *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

¹⁶ See, e.g., David Gordon, Myron Gordon & Lawrence Gould, "Choice Among Methods of Estimating Share Yield," *The Journal of Portfolio Management*, Spring 1989.

1 projections are more likely to influence investors' decisions, which are captured in
2 observable stock prices, than growth rates derived only from historical data.

3 For my constant growth DCF analysis, I relied on a consensus, or mean, of
4 professional securities analysts' earnings growth estimates as a proxy for investor
5 consensus dividend growth rate expectations. I used the average of analysts' growth
6 rate estimates from three sources: Zacks, MI, and I/B/E/S, provided by LSEG
7 Workspace. All such projections were available on July 18, 2025 and all were reported
8 online.

9 Each consensus growth rate projection is based on a survey of securities
10 analysts. There is no clear evidence whether a particular analyst is most influential on
11 general market investors. Therefore, a single analyst's projection does not predict
12 general investor outlook as reliably as does a consensus of market analysts' projections.
13 The consensus estimate is a simple arithmetic average, or mean, of surveyed analysts'
14 earnings growth forecasts. A simple average of the growth forecasts gives equal weight
15 to all surveyed analysts' projections. Therefore, a simple average, or arithmetic mean,
16 of analyst forecasts is a good proxy for market consensus expectations.

17 **Q WHAT ARE THE GROWTH RATES YOU USED IN YOUR CONSTANT**
18 **GROWTH DCF MODEL?**

19 A The growth rates I used in my DCF analysis are shown in Exhibit MPG-4. The average
20 growth rate for my gas proxy group is 7.62%. The average growth rate for my electric
21 proxy group is 6.75%. The average growth rate for my combined proxy group is 7.04%.

1 **Q WHAT ARE THE RESULTS OF YOUR CONSTANT GROWTH DCF MODEL?**

2 A As shown in Exhibit MPG-5, the average and median constant growth DCF returns for
3 my gas proxy group are 11.45% and 10.91%, respectively. The average and median
4 constant growth DCF returns for my electric proxy group for the 13-week analysis are
5 10.83% and 10.41%, respectively. The average and median constant growth DCF
6 returns for my combined proxy group are 11.04% and 10.77%, respectively.

7 **Q DO YOU HAVE ANY COMMENTS ON THE RESULTS OF YOUR CONSTANT**
8 **GROWTH DCF ANALYSIS?**

9 A Yes. The constant growth DCF analysis for my proxy groups is based on an average
10 long-term sustainable growth rate of approximately 7.00%. The three- to five-year
11 growth rate is higher than my estimate of a maximum long-term sustainable growth rate
12 of 4.10%. As discussed in detail below, the DCF model requires a growth rate that can
13 be sustained in perpetuity. It is unreasonable to assume that utilities in general can grow
14 at a rate above the growth rate of the U.S. economy. Therefore, applying a multi-stage
15 DCF model that captures various growth rate outlooks as I have done is more reasonable
16 in the current market environment.

17 **Q HOW DID YOU ESTIMATE A MAXIMUM LONG-TERM SUSTAINABLE**
18 **GROWTH RATE?**

19 A The long-term sustainable growth rate for a utility stock cannot exceed the growth rate
20 of the economy in which it sells its goods and services. The long-term maximum

1 sustainable growth rate for a utility investment is, accordingly, best proxied by the
2 projected long-term Gross Domestic Product (“GDP”) growth rate, as that reflects the
3 projected long-term growth rate of the economy as a whole. While growth rates over
4 shorter periods can exceed the GDP growth rate, those short-term growth periods are
5 likely followed by other periods where the growth rate is below the GDP. On average,
6 over long periods of time, the growth rate is most accurately approximated by the
7 long-term growth rate outlooks of the U.S. GDP.

8 *Blue Chip Financial Forecasts* projects that over the next 5 to 10 years, the U.S.
9 nominal GDP will grow at an annual rate of approximately 4.1%. These GDP growth
10 projections reflect a real growth outlook of around 2.0% and an inflation outlook of
11 around 2.1% going forward. As such, the average nominal growth rate over the next 5
12 to 10 years is around 4.1%, which I believe is a reasonable proxy of long-term
13 sustainable growth.¹⁷

14 **Q IS THERE INDEPENDENT AUTHORITATIVE SUPPORT FOR USING**
15 **LONG-TERM GDP GROWTH AS A MAXIMUM SUSTAINABLE GROWTH**
16 **RATE?**

17 **A** Yes. In my multi-stage growth DCF analysis, I discuss academic and investment
18 practitioner support for using the projected long-term GDP growth outlook as a
19 maximum sustainable growth rate projection. However, using the long-term GDP
20 growth rate as a conservative projection for the maximum sustainable growth rate is

¹⁷ *Blue Chip Financial Forecasts*, June 2, 2025, at 14.

1 logical and is generally consistent with academic and economic practitioners' accepted
2 practices.

3 **Q WOULD IT BE REASONABLE TO EXPECT THAT THE SHORT-TERM**
4 **GROWTH RATE CAN BE SUSTAINED INDEFINITELY, IF THE UTILITY**
5 **HAS A SUSTAINED LEVEL OF LARGE CAPITAL EXPENDITURES?**

6 A No. The growth rate largely tracks the percentage growth in rate base, which is a source
7 of net income the utility earns from providing utility service. While capital investments
8 are expected to be at elevated levels for the foreseeable future, the growth in rate base
9 will start to slow over time, as elevated capital expenditures produce a lower base
10 growth rate over time, because the elevated capital addition will become a lower
11 percentage of embedded rate base. That is, elevated capital expenditures cannot
12 reasonably be expected to expand above general inflation levels because utilities have
13 limited amounts of qualified engineers and contractors and limited major equipment
14 suppliers to provide the materials needed to replace and expand infrastructure assets or
15 rate base. As embedded rate base grows, the percent growth in rate base starts to slow
16 over time. For example, assume an elevated annual capital addition to rate base of \$100
17 and an embedded rate base of \$1,000. This would produce a rate base growth of 10%
18 ($\$100/\$1,000$). However, if the embedded base grows from \$1,000 to \$2,000 over time,
19 then the continued elevated capital addition to rate base of \$100 would slow the
20 embedded rate base growth to 5% ($\$100/\$2,000$). Hence, growth of rate base and
21 growth of earnings will start to slow over time as embedded rate base grows, even while

1 annual capital additions to rate base stay elevated. As such, three- to five-year growth
2 rate projections may be reasonable for the next three to five years, but they are not
3 reasonable indicators of long-term, sustainable growth.

4 **IV.C. Sustainable Growth DCF**

5 **Q PLEASE DESCRIBE HOW YOU ESTIMATED A SUSTAINABLE,**
6 **LONG-TERM GROWTH RATE FOR YOUR SUSTAINABLE GROWTH DCF**
7 **MODEL.**

8 **A** A sustainable growth rate is based on the percentage of the utility's earnings that is
9 retained and reinvested in utility plant and equipment. These reinvested earnings
10 increase the earnings base ("rate base"). Earnings grow when plant funded by
11 reinvested earnings is put into service, and the utility is allowed to earn its authorized
12 return on such additional rate base investments.

13 The internal growth methodology is tied to the percentage of earnings retained
14 by the utility and not paid out as dividends. The earnings retention ratio is 1 minus the
15 dividend payout ratio. As the payout ratio declines, the earnings retention ratio
16 increases. An increased earnings retention ratio will fuel stronger growth as the business
17 funds more investments with retained earnings.

18 The payout ratios of the proxy group are shown in my Exhibit MPG-6. These
19 dividend payout ratios and earnings retention ratios then can be used to develop a
20 sustainable long-term earnings retention growth rate. A sustainable long-term earnings

1 retention ratio will help gauge whether analysts' current three- to five-year growth rate
2 projections can be sustained over an indefinite period of time.

3 The data used to estimate the long-term sustainable growth rate is based on
4 KU/LGE's current market-to-book ratio and on *Value Line*'s three- to five-year
5 projections of earnings, dividends, earned returns on book equity, and stock issuances.

6 As shown in Exhibit MPG-7, the average sustainable growth rate using this
7 internal growth rate model is 5.82% for my gas group, 5.20% for my electric group, and
8 5.40% for my combined proxy group. However, I would point out that prior to
9 accounting for the external sale of additional shares, the internal growth rate for the
10 proxy groups is in the range of 4.26% to 4.63%, which demonstrates that my sustainable
11 growth rate of 4.10% is reasonable.

12 **Q WHAT IS THE DCF ESTIMATE USING THESE SUSTAINABLE**
13 **LONG-TERM GROWTH RATES?**

14 **A** A DCF estimate based on these sustainable growth rates is developed in Exhibit MPG-8.
15 As shown there, the sustainable growth DCF analysis produces a gas proxy group
16 average and median DCF results for the 13-week period of 9.59% and 9.37%,
17 respectively. The sustainable growth DCF analysis produces an electric proxy group
18 average and median DCF results for the 13-week period of 9.21% and 8.68%,
19 respectively. The sustainable growth DCF analysis produces combined proxy group
20 average and median DCF results for the 13-week period of 9.34% and 9.05%,
21 respectively.

1 **IV.D. Multi-Stage Growth DCF Model**

2 **Q HAVE YOU CONDUCTED ANY OTHER DCF STUDIES?**

3 A Yes. My first constant growth DCF is based on consensus analysts' growth rate
4 projections, so it is a reasonable reflection of rational investment expectations over the
5 next three to five years. The limitation on this constant growth DCF model is that it
6 cannot reflect the rational expectation that a period of high or low short-term growth
7 can be followed by a change in growth to a rate that KU/LGE reflects long-term
8 sustainable growth. Therefore, I performed a multi-stage growth DCF analysis to reflect
9 this outlook of changing growth expectations.

10 **Q WHY DO YOU BELIEVE GROWTH RATES CAN CHANGE OVER TIME?**

11 A Analyst-projected growth rates over the next three to five years will change as utility
12 earnings growth outlooks change. Utility companies go through cycles in making
13 investments in their system. When utility companies are making large investments,
14 their rate base grows rapidly, which in turn accelerates earnings growth. Once a major
15 construction cycle is completed or levels off, growth in the utility rate base slows and
16 its earnings growth slows from an abnormally high three- to five-year rate to a lower
17 sustainable growth rate.

18 As major construction cycles extend over longer periods of time, even with an
19 accelerated construction program, the growth rate of the utility will slow simply because
20 the pace of rate base growth will slow and because the utility has limited human and
21 capital resources available to expand its construction program. Therefore, the three- to

1 five-year growth rate projection should only be used as a long-term sustainable growth
2 rate in concert with a reasonable, informed judgment as to whether it reflects the current
3 market environment, the industry, and whether the three- to five-year growth outlook is
4 actually sustainable.

5 **Q PLEASE DESCRIBE YOUR MULTI-STAGE GROWTH DCF MODEL.**

6 A The multi-stage growth DCF model reflects the possibility of non-constant growth for
7 a company over time. The multi-stage growth DCF model reflects three growth periods:
8 (1) a short-term growth period consisting of the first five years; (2) a transition period,
9 consisting of the next five years (years 6 through 10); and (3) a long-term growth period
10 starting in year 11 through perpetuity.

11 For the short-term growth period, I relied on the consensus analysts' growth
12 projections I used above in my constant growth DCF model. For the transition period,
13 the growth rates were reduced or increased by an equal factor reflecting the difference
14 between the analysts' growth rates and the long-term sustainable growth rate. For the
15 long-term growth period, I assumed each company's growth would converge to the
16 maximum sustainable long-term growth rate, which is the projected long-term GDP
17 growth rate.

1 **Q WHY IS THE GDP GROWTH PROJECTION A REASONABLE PROXY FOR**
2 **THE MAXIMUM SUSTAINABLE LONG-TERM GROWTH RATE?**

3 A Utilities cannot indefinitely sustain a growth rate that exceeds the growth rate of the
4 economy in which they sell services. Utilities’ earnings/dividend growth is fueled by
5 increased utility investment or rate base. Such investment, in turn, is driven by service
6 area economic growth and demand for utility service. In other words, utilities invest in
7 plants to meet sales demand growth. Sales growth, in turn, is tied to economic growth
8 in their service areas.

9 The U.S. Department of Energy, Energy Information Administration (“EIA”)
10 has observed utility sales growth tracks via U.S. GDP growth, albeit at a lower level, as
11 shown in Exhibit MPG-9. Utility sales growth, which is a proxy for revenue growth,
12 has lagged behind GDP growth for more than a decade. As a result, nominal GDP
13 growth, which tracks economic revenue changes via sales and price changes, is a very
14 conservative proxy for utility financial growth – revenue growth, rate base growth, and
15 earnings growth. Therefore, the U.S. GDP nominal growth rate is a reasonable proxy
16 for the highest sustainable long-term growth rate of a utility.

1 **Q IS THERE RESEARCH THAT SUPPORTS YOUR POSITION THAT, OVER**
2 **THE LONG TERM, A COMPANY’S EARNINGS AND DIVIDENDS CANNOT**
3 **GROW AT A RATE GREATER THAN THE GROWTH OF THE U.S. GDP?**

4 A Yes. This concept is supported in published analyst literature and academic work.
5 Specifically, in *Fundamentals of Financial Management*, a textbook published by
6 Eugene Brigham and Joel F. Houston, the authors state:

7 The constant growth model is most appropriate for mature companies
8 with a stable history of growth and stable future expectations. Expected
9 growth rates vary somewhat among companies, but dividends for mature
10 firms are often expected to grow in the future at about the same rate as
11 nominal gross domestic product (real GDP plus inflation).¹⁸

12 The use of the economic growth rate is also supported by investment
13 practitioners as outlined in the following:

14 **Estimating Growth Rates**

15 One of the advantages of a three-stage discounted cash flow model is
16 that it fits with life cycle theories with regard to company growth. In
17 these theories, companies are assumed to have a life cycle with varying
18 growth characteristics. Typically, the potential for extraordinary growth
19 in the near-term eases over time and eventually growth slows to a more
20 stable level.

21 * * *

22 Another approach to estimating long-term growth rates is to focus on
23 estimating the overall economic growth rate. Again, this is the approach
24 used in the *Ibbotson Cost of Capital Yearbook*. To obtain the economic
25 growth rate, a forecast is made of the growth rate’s component parts.
26 Expected growth can be broken into two main parts: expected inflation
27 and expected real growth. By analyzing these components separately, it
28 is easier to see the factors that drive growth.¹⁹

¹⁸ *Fundamentals of Financial Management*, Eugene F. Brigham & Joel F. Houston, Eleventh Edition 2007, Thomson South-Western, a Division of Thomson Corporation at 298 (emphasis added).

¹⁹ Morningstar, Inc., Ibbotson SBBI 2013 Valuation Yearbook at 51 and 52.

1 **Q ARE THERE ACTUAL INVESTMENT RESULTS THAT SUPPORT THE**
2 **THEORY THAT THE GROWTH ON STOCK INVESTMENTS WILL NOT**
3 **EXCEED THE NOMINAL GROWTH OF THE U.S. GDP?**

4 A Yes. This is evident by a comparison of the compound annual growth of the U.S. GDP
5 to the geometric growth of the U.S. stock market. Kroll measures the historical
6 geometric growth of the U.S. stock market over the period 1926-2023 to be
7 approximately 6.2%.²⁰ During this same time period, the U.S. nominal compound
8 annual growth of the U.S. GDP was approximately 6.1%.²¹

9 As such, over the past 95 years, the geometric average growth of the U.S.
10 nominal GDP has been slightly higher than, but comparable to, the geometric average
11 growth of the U.S. stock market capital appreciation. This historical relationship
12 indicates that the U.S. GDP growth outlook is a reasonable estimate of the long-term
13 sustainable growth of U.S. stock investments.

14 **Q WHAT IS THE GEOMETRIC AVERAGE AND WHY IS IT APPROPRIATE TO**
15 **USE THIS MEASURE TO COMPARE GDP GROWTH TO CAPITAL**
16 **APPRECIATION IN THE STOCK MARKET?**

17 A The terms geometric average growth rate and compound annual growth rate are used
18 interchangeably. The geometric average growth rate is the calculated growth rate, or
19 return, which measures the magnitude of growth from start to finish. The geometric
20 average is best, and most often, used as a measurement of performance or growth over

²⁰ Kroll, 2023 SBBI Yearbook at 137, Market Direct.

²¹ U.S. Bureau of Economic Analysis, Table 1.1.5 Gross Domestic Product, Revised March 27, 2025.

1 a long period of time.²² Because I am comparing achieved growth in the stock market
2 to achieved growth in U.S. GDP over a long period of time, the geometric average
3 growth rate is most appropriate.

4 **Q HOW DID YOU DETERMINE A LONG-TERM GROWTH RATE THAT**
5 **REFLECTS THE CURRENT CONSENSUS MARKET PARTICIPANT**
6 **OUTLOOK?**

7 A I relied on the economic consensus of long-term GDP growth projections. *Blue Chip*
8 *Financial Forecasts* publishes the consensus for GDP growth projections twice a year.
9 These consensus GDP growth outlooks are the best available measure of the market's
10 assessment of long-term GDP growth because the analysts' projections reflect all
11 current outlooks for GDP. They are, therefore, likely the most influential on investors'
12 expectations of future growth outlooks. The consensus projections published for the
13 GDP growth rate outlook is 4.1% over the next five to ten years.²³

14 I propose to use the consensus for projected five-year average GDP growth rate
15 of 4.1%, as published by *Blue Chip Financial Forecasts*, as an estimate of long-term
16 sustainable growth. *Blue Chip Financial Forecasts'* projections provide real GDP
17 growth projections of 2.0% and inflation of approximately 2.1% over the next five- to
18 ten-year (2027-2036) period, resulting in an average projected nominal annual GDP
19 growth projection of 4.1%.²⁴ These GDP growth forecasts most accurately reflect the

²² *New Regulatory Finance*, Roger Morin, PhD, at 133-134.

²³ *Blue Chip Financial Forecasts*, June 2, 2025, at 14.

²⁴ *Id.*

expectations of market participants because they are based on published economic consensus projections.

Q DO YOU CONSIDER OTHER SOURCES OF PROJECTED LONG-TERM GDP GROWTH?

A Yes, and these alternative sources corroborate the consensus analysts' projections I relied on. Various, commonly relied upon analysts' projections are shown in Table 6 below.

| TABLE 6 | | | | |
|--|-------------------------|-----------------|------------------|--------------------|
| <u>GDP Forecasts</u> | | | | |
| <u>Source</u> | <u>Projected Period</u> | <u>Real GDP</u> | <u>Inflation</u> | <u>Nominal GDP</u> |
| Blue Chip Financial Forecasts ¹ | 5-10 Yrs | 2.0% | 2.1% | 4.1% |
| EIA - Annual Energy Outlook ² | 26 Yrs | 1.8% | 2.1% | 3.9% |
| Congressional Budget Office ³ | 30 Yrs | 1.6% | 2.0% | 3.7% |
| Moody's Analytics ⁴ | 30 Yrs | 2.0% | 2.1% | 4.2% |
| Social Security Administration ⁵ | 75 Yrs | 1.5% | 2.4% | 4.0% |
| Economist Intelligence Unit ⁶ | 31 Yrs | 1.6% | 2.3% | 4.0% |
| Sources: | | | | |
| ¹ Blue Chip Financial Forecasts, June 2, 2025 at 14. | | | | |
| ² U.S. EnergyInformation Administration (EIA), Annual Energy Outlook 2025, April 15, 2025. | | | | |
| ³ Congressional Budget Office, Long-Term Budget Outlook, March 27, 2025. | | | | |
| ⁴ Moody's Analytics Forecast, last updated June 9, 2025. | | | | |
| ⁵ Social Security Administration, "2025 OASDI Trustees Report," Table VI.G6. June 18, 2025. | | | | |
| ⁶ S&P MI, Economist Intelligence Unit, downloaded on July 18, 2025. | | | | |

1 As shown in Table 6, the real GDP and inflation fall in the range of 1.6% to
2 2.0% and 2.0% to 2.4%, respectively. This results in a nominal GDP in the range of
3 3.7% to 4.1%.

4 Therefore, the nominal GDP growth projections made by these independent
5 sources support my use of 4.1% as a reasonable estimate of market participants'
6 expectations for long-term GDP growth.

7 **Q WHAT STOCK PRICE, DIVIDEND, AND GROWTH RATES DID YOU USE IN**
8 **YOUR MULTI-STAGE GROWTH DCF ANALYSIS?**

9 A I relied on the same 13-week average stock prices and the most recent quarterly dividend
10 payment data discussed above. For stage one growth, I used the consensus analysts'
11 growth rate projections discussed above in my constant growth DCF model. The first
12 stage covers the first five years, consistent with the time horizon of the securities
13 analysts' growth rate projections. The second stage, or transition stage, begins in year
14 six and extends through year ten. The second stage growth transitions the growth rate
15 from the first stage to the third stage using a straight linear trend. For the third stage, or
16 long-term sustainable growth stage, starting in year eleven, I used a 4.1% long-term
17 sustainable growth rate based on the consensus economists' long-term projected
18 nominal GDP growth rate.

1 **Q WHAT ARE THE RESULTS OF YOUR MULTI-STAGE GROWTH DCF**
2 **MODEL?**

3 **A As shown in Exhibit MPG-10, the average and median DCF returns on equity for my**
4 **gas proxy group using the 13-week average stock price are 8.70% and 9.21%,**
5 **respectively. The average and median DCF returns on equity for my electric proxy**
6 **group are 8.78% and 8.42%, respectively. The average and median DCF returns on**
7 **equity for my combined proxy group are 8.75% and 8.47%, respectively.**

8 **IV.E. DCF Summary Results**

9 **Q PLEASE SUMMARIZE THE RESULTS FROM YOUR DCF ANALYSES.**

10 **A The results from my DCF analyses are summarized in Table 7 below.**

| TABLE 7 | | | | | | |
|--|-----------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| <u>Summary of DCF Results</u> | | | | | | |
| <u>Description</u> | <u>Gas</u> | | <u>Electric</u> | | <u>Combined</u> | |
| | <u>Average</u> | <u>Median</u> | <u>Average</u> | <u>Median</u> | <u>Average</u> | <u>Median</u> |
| Constant Growth DCF Model (Analysts' Growth) | 10.83% | 10.41% | 10.83% | 10.41% | 11.04% | 10.77% |
| Constant Growth DCF Model (Sustainable Growth) | 9.21% | 8.68% | 9.21% | 8.68% | 9.34% | 9.05% |
| Multi-Stage Growth DCF Model | 8.78% | 8.42% | 8.78% | 8.42% | 8.75% | 8.47% |
| Average | 9.61% | 9.17% | 9.61% | 9.17% | 9.71% | 9.43% |

11 Based on the current market conditions, my DCF studies indicate a fair return
12 on equity for KU/LGE in the range of 8.90% to 9.50%, with a midpoint of 9.20%.

1 **IV.F. Risk Premium Model**

2 **Q PLEASE DESCRIBE YOUR BOND YIELD PLUS RISK PREMIUM MODEL.**

3 A This model is based on the principle that investors require a higher return to assume
4 greater risk. Common equity investments have greater risk than bonds because bonds
5 have more security of payment in bankruptcy proceedings than common equity and the
6 coupon payments on bonds represent contractual obligations. In contrast, companies
7 are not required to pay dividends or guarantee returns on common equity investments.
8 Therefore, common equity securities are considered to be riskier than bond securities.

9 This risk premium model is based on two estimates of an equity risk premium.
10 First, I quantify the difference between regulatory commission-authorized returns on
11 common equity and contemporary U.S. Treasury bonds. The difference between the
12 authorized return on common equity and the Treasury bond yield is the risk premium.
13 I estimated the risk premium on an annual basis for each year from 1986 through
14 March 31, 2025. The authorized returns on equity were based on regulatory
15 commission-authorized returns for utility companies. Authorized returns are typically
16 based on expert witnesses' estimates of the investor-required return at the time of the
17 proceeding.

18 The second equity risk premium estimate is based on the difference between
19 regulatory commission-authorized returns on common equity and contemporary "A"
20 rated utility bond yields by Moody's. I selected the period 1986 through
21 March 31, 2025 because public utility stocks have consistently traded at a premium to
22 book value during that period. This is illustrated in Exhibit MPG-11, which shows the

1 market-to-book ratio since 1986 for the utility industry was consistently above a
2 multiple of 1.0x. Over this period, an analyst can infer that authorized returns on equity
3 were sufficient to support market prices that at least exceeded book value. This is an
4 indication that commission-authorized returns on common equity supported utilities'
5 ability to issue additional common stock without diluting existing shares. It further
6 demonstrates that utilities were able to access equity markets without a detrimental
7 impact on existing shareholders.

8 Based on this analysis, as shown in Exhibit MPG-12, the average indicated
9 equity risk premium over U.S. Treasury bond yields has been 5.68% for electric and
10 5.61% for gas with a midpoint of 5.65%. Since the risk premium can vary depending
11 upon market conditions and changing investor risk perceptions, I believe using an
12 estimated range of risk premiums provides the best method to measure the current return
13 on common equity for a risk premium methodology.

14 I incorporated five- and ten-year rolling average risk premiums over the study
15 period to gauge the variability over time. These rolling average risk premiums mitigate
16 the impact of anomalous market conditions and skewed risk premiums over an entire
17 business cycle. As shown on my Exhibit MPG-12, page 1, the five-year electric rolling
18 average risk premium over Treasury bonds ranged from 4.25% to 7.09%, with an
19 average of 5.74%. The ten-year electric rolling average risk premium ranged from
20 4.38% to 6.91%, with an average of 5.77%. As shown on my Attachment MPG-12,
21 page 2, the five-year gas rolling average risk premium over Treasury bonds ranged from

1 4.17% to 7.15%, with an average of 5.67%. The ten-year gas rolling average risk
2 premium ranged from 4.30% to 6.91%, with an average of 5.70%.

3 As shown on my Exhibit MPG-14, the average indicated equity risk premium
4 over contemporary “A” rated Moody’s utility bond yields was 4.33% for electric and
5 4.26% for gas with a midpoint of 4.30%. The five-year electric rolling average risk
6 premiums ranged from 2.88% to 5.90%, with an average of 4.39%. The ten-year rolling
7 average electric risk premiums ranged from 3.20% to 5.73%, with an average of 4.42%.
8 As shown on page 2, the five-year gas rolling average risk premiums ranged from 2.80%
9 to 5.96%, with an average of 4.33%. The ten-year gas rolling average risk premiums
10 ranged from 3.11% to 5.74%, with an average of 4.34%.

11 **Q DO YOU BELIEVE THAT THE TIME PERIOD USED TO DERIVE THESE**
12 **EQUITY RISK PREMIUM ESTIMATES IS APPROPRIATE TO FORM**
13 **ACCURATE CONCLUSIONS ABOUT CONTEMPORARY MARKET**
14 **CONDITIONS?**

15 **A** Yes. Contemporary market conditions can change during the period that the rates
16 determined in this proceeding will be in effect. A relatively long period of time where
17 stock valuations reflect premiums to book value indicates that the authorized returns on
18 equity and the corresponding equity risk premiums were supportive of investors’ return
19 expectations and provided utilities access to the equity markets under reasonable terms
20 and conditions. Further, this time period is long enough to smooth any abnormal market
21 movement that might distort equity risk premiums. While market conditions and risk

1 premiums do vary over time, this historical time period is a reasonable period to estimate
2 the contemporary risk premium.

3 Alternatively, some studies, such as Kroll, have recommended that the use of
4 “actual achieved investment return data” in a risk premium study should be based on
5 long historical time periods. These studies find that achieved returns over short time
6 periods may not reflect investors’ expected returns due to unexpected and abnormal
7 stock price performance. Short-term, abnormal actual returns would be smoothed over
8 time and the achieved actual investment returns over long time periods would
9 approximate investors’ expected returns. Therefore, it is reasonable to assume that
10 averages of annual achieved returns over long time periods will generally converge on
11 the investors’ expected returns.

12 My risk premium study is based on data that inherently relied on investor
13 expectations, not actual investment returns, and, thus, need not encompass a very long
14 historical time period.

15 **Q WHAT DOES CURRENT OBSERVABLE MARKET DATA SUGGEST ABOUT**
16 **INVESTOR PERCEPTIONS OF UTILITY INVESTMENTS?**

17 A The equity risk premium should reflect the relative market perception of risk today in
18 the utility industry. I have gauged investor perceptions in utility risk today in
19 Exhibit MPG-14, where I show the yield spread between utility bonds and Treasury
20 bonds over the last 45 years. As shown in this exhibit, the average utility bond yield
21 spreads over Treasury bonds for “A” and “Baa” rated utility bonds for this historical

1 period are 1.47% and 1.88%, respectively. The utility bond yield spreads over Treasury
2 bonds for “A” and “Baa” rated utilities in 2022 were 1.61% and 1.91%, respectively.
3 In 2023, the spreads have declined to 1.45% for “A” rated utilities and 1.75% for “BBB”
4 utilities. In 2024, the spreads have decreased even further to 1.14% for “A” rated
5 utilities and 1.36% for “BBB” utilities. More recently, in 2025, the spreads have
6 declined to 1.10% for “A” rated utilities and 1.28% for “BBB” utilities.

7 Historically, I relied on the 13-week average bond yields. However, Moody’s
8 stopped publishing those on its website, so I started using the Mergent Bond Record,
9 which reports the utility yields on a monthly basis. The current 3-month average “A”
10 rated utility bond yield of 5.96%, when compared to the current Treasury bond yield of
11 4.83%, as shown in Exhibit MPG-15, implies a yield spread of 1.13%. This current
12 utility bond yield spread is lower than the 45-year average spread for “A” rated utility
13 bonds of 1.47%. The current spread for the “Baa” rated utility bond yield of 1.32% is
14 also lower than the 45-year average spread of 1.88%.

15 **Q IS THERE OBSERVABLE MARKET EVIDENCE TO HELP GAUGE**
16 **MARKET RISK PREMIUMS?**

17 **A** Yes. Market data illustrates how the market is pricing investment risk and gauging the
18 current demands for returns based on securities of varying levels of investment risk.
19 This market evidence includes bond yield spreads for different bond return ratings as
20 implied by the yield spreads for Treasury, corporate and utility bonds. These spreads

provide an indication of the market's return requirement for securities of different levels of investment risk and required risk premium.

Table 8 summarizes the utility and corporate bond spreads relative to Treasury bond yields.

| TABLE 8 | | | | | |
|--|----------------------------------|----------------|--|----------|--------------------------------------|
| <u>Electric Yield Spreads - Risk Premium</u> | | | | | |
| <u>Year</u> | <u>Utility Bonds¹</u> | | <u>Utility Stock Spreads²</u> | | <u>Forward Inflation²</u> |
| | <u>A - T</u> | <u>Baa - T</u> | <u>30-Year Treasury</u> | <u>A</u> | |
| | (1) | (2) | (3) | (4) | |
| 20-Year Historical Spread | 1.30% | 1.78% | -0.32% | 0.98% | 2.18% |
| 10-Year Historical Spread | 1.26% | 1.62% | -0.41% | 0.85% | 2.13% |
| 3-Month Current Spreads: ³ | | | | | |
| Utility Bond | 1.13% | 1.32% | | | |
| Utility Stock | | | 1.25% | 2.38% | |
| Sources: | | | | | |
| 20-Year Historical Spread period; 2006 - 2025. | | | | | |
| 10-Year Historical Spread period; 2016 - 2025. | | | | | |
| ¹ Exhibit MPG-14. | | | | | |
| ² Exhibit MPG-2, page 5. | | | | | |
| ³ Exhibit MPG-15, page 1. | | | | | |

As outlined in Table 8 above, the A and Baa rated utility bonds to Treasury bond yield spreads during my study period are much lower than the yield spreads have been over the last 20- and 10-year historical averages. This indicates the market is demanding a lower return risk premium for investing in higher risk securities, utility bonds vs. Treasury bonds.

The historical utility/Treasury bond yields vs stock yields spreads currently are higher than the 10 and 20 year historical averages. This indicates that stock prices have held its valuations better than bond valuations, and bond yields have increased more than stock yields in the current market. This indicates that the market required return

1 stocks have increased less than the market's required returns on bonds, or the equity risk
2 premiums have declined in the current market vs the historical periods. This widening
3 of Bond vs stock yield spreads indicates that equity risk premiums have declined in the
4 current market, and equity risk premiums currently are below the average historical
5 average equity risk premium.

6 Based on this assessment of observable risk premiums in the market, I conclude
7 that equity risk premiums in the current marketplace are below the historical averages
8 or normal spreads.

9 **Q WHAT IS YOUR RECOMMENDED RETURN FOR KU/LGE BASED ON**
10 **YOUR RISK PREMIUM STUDY?**

11 A. As outlined above, the current market data reflects risk premiums between securities of
12 greater levels of investment risk near normal levels, but still below normal risk
13 premiums. For these reasons, I recommend a risk premium near the historical average
14 to reflect the observable market evidence of the equity risk premiums reflected in utility
15 stock, utility bond, and Treasury bond valuations.

16 For Treasury bond yields, I considered the five-year rolling average historical
17 risk premium of 5.74% (electric) and 5.67% (gas). The average utility risk premium is
18 5.65% (electric/gas) based on current market observable risk premium spreads. I will
19 use a Treasury bond risk premium of 5.10%, which is about 90% of the historical
20 average risk premium (5.65% x 0.90), or slightly below the normal risk premium
21 suggested, to be reasonable based on market evidence. This risk premium and a

1 projected 30-year Treasury bond yield of 4.60% produces an indicated equity risk
2 premium of 9.70% (5.10% plus 4.60%).

3 A risk premium based on utility bond yields reflects current observable bond
4 yields as measured by the five-year rolling average risk premium estimate of 4.39%
5 (electric) and 4.33% (gas), with an average of 4.30% (electric/gas), as shown on
6 Exhibit MPG-13. The 3-month average A-rated utility bond yield is 5.96%, as shown
7 on my Exhibit MPG-15, page 1. As outlined above, the current equity risk premium
8 relative to utility bond yields is below historical averages. The observable evidence
9 shows that current equity risk premiums are very low in relation to bond risk premiums.

10 A risk premium for the current market is about 3.90% which is about 90% of the
11 historical utility risk premium, (4.30% x 0.90). This risk premium combined with the
12 A-rated utility bond yield of 5.96% produces a risk premium return of approximately
13 9.86% (3.90% plus 5.96%), rounded to 9.85%.

14 Therefore, a risk premium estimate based on observable risk premiums in the
15 marketplace, and the expected outlook for moderation in long-term interest rates over
16 the next couple years, support a risk premium-based return on equity for KU/LGE in
17 the range of 9.70% to 9.85%, with a midpoint of 9.77%, rounded to 9.75%.

18 **IV.G. Capital Asset Pricing Model (“CAPM”)**

19 **Q PLEASE DESCRIBE THE CAPM.**

20 **A** The CAPM method of analysis is based upon the theory that the market-required rate of
21 return for a security is equal to the risk-free rate, plus a risk premium associated with

1 the specific security. This relationship between risk and return can be expressed
2 mathematically as follows:

3
$$R_i = R_f + B_i \times (R_m - R_f) \text{ where:}$$

4 R_i = Required return for stock i

5 R_f = Risk-free rate

6 R_m = Expected return for the market portfolio

7 B_i = Beta - Measure of the risk for stock

8 The stock-specific risk term in the above equation is beta. Beta represents the
9 investment risk that cannot be diversified away when the security is held in a diversified
10 portfolio. When stocks are held in a diversified portfolio, stock-specific risks can be
11 eliminated by balancing the portfolio with securities that react in the opposite direction
12 to firm-specific risk factors (e.g., business cycle, competition, product mix, and
13 production limitations).

14 Risks that cannot be eliminated when held in a diversified portfolio are
15 non-diversifiable risks. Non-diversifiable risks are related to the market and referred to
16 as systematic risks. In contrast, risks that can be eliminated by diversification are
17 non-systematic risks. In a broad sense, systematic risks are market risks and
18 non-systematic risks are business risks. The CAPM theory suggests the market will not
19 compensate investors for assuming risks that can be diversified away. Therefore, the
20 only risk investors will be compensated for are systematic, or non-diversifiable, risks.
21 The beta is a measure of these systematic, or non-diversifiable risks.

1 **Q PLEASE DESCRIBE THE INPUTS TO YOUR CAPM.**

2 A The CAPM requires an estimate of the market risk-free rate, KU/LGE's beta, and the
3 market risk premium.

4 **Q WHAT DID YOU USE AS AN ESTIMATE OF THE MARKET RISK-FREE**
5 **RATE?**

6 A As previously noted, *Blue Chip Financial Forecasts* projected 30-year Treasury bond
7 yield is 4.60%.²⁵ The current 30-year Treasury bond yield is 4.83% as shown in
8 Exhibit MPG-15.

9 **Q WHY DID YOU USE LONG-TERM TREASURY BOND YIELDS AS AN**
10 **ESTIMATE OF THE RISK-FREE RATE?**

11 A Treasury securities are backed by the full faith and credit of the United States
12 government. Therefore, long-term Treasury bonds are considered to have negligible
13 credit risk. Also, long-term Treasury bonds have an investment horizon similar to that
14 of common stock. As a result, investors' long-run inflation expectations are reflected
15 in both common stocks' required returns and long-term bond yields. Therefore, the
16 nominal risk-free rate (or expected inflation rate and real risk-free rate) included in a
17 long-term bond yield is a reasonable estimate of the nominal risk-free rate included in
18 common stock returns.

²⁵ *Blue Chip Financial Forecasts*, July 1, 2025, at 2.

Treasury bond yields, however, do include risk premiums related to unanticipated future inflation and interest rates. In this regard, a Treasury bond yield is not a risk-free rate. Risk premiums related to unanticipated inflation and interest rates reflect systematic market risks. Consequently, for companies with betas less than 1.0, using the Treasury bond yield as a proxy for the risk-free rate in the CAPM analysis can produce an overstated estimate of the CAPM return.

Q WHAT BETA DID YOU USE IN YOUR ANALYSIS?

A I relied on the *Value Line* Investment Survey beta methodology. The *Value Line* Investment Survey publishes betas for companies included in its Investment Survey across various industries, including the electric and gas utility industry. For purposes of my analysis, I relied on the actual published *Value Line* betas. The *Value Line*'s published beta is based on a five-year historical period. Market data that existed during the early onset years of the COVID-19 pandemic, around March/April of 2020, significantly skewed the estimate of betas for low-risk companies like utilities. Betas measured over a more recent historical period exclude this aberrant market movement and produce a forward looking beta that more reasonably aligns with the risk of utilities versus that of the overall market.

Shown in my Exhibit MPG-16 at page 1, I present the published *Value Line* data. *Value Line*'s beta adjustment methodology is based on a regression of the weekly percent change in the subject Company's stock price, versus the weekly percent change in the New York Stock Exchange Index over a five-year period. This regression study

1 produces raw beta estimates. The raw beta estimates are then adjusted to reflect a
2 forward outlook that raw betas tend to regress towards the market beta of 1.0 over time.
3 This forward looking adjustment to the raw beta is based on the following formula, 0.67
4 \times raw beta plus $0.25 \times$ the market beta of 1. The forward beta adjustment converts the
5 raw historical beta to a forward looking beta estimate.

6 As shown on my Exhibit MPG-16, the published *Value Line* beta for my gas
7 electric and combined proxy groups are 0.81, 0.76 and 0.78, respectively. I would point
8 out that more recently the *Value Line* average beta has declined significantly from the
9 high beta estimates triggered at the onset of the COVID-19 pandemic. As discussed
10 earlier the combined group beta of 0.78 reflects the gas and electric operations.

11 Therefore, I will rely on the average beta estimate of 0.77 produced by the
12 electric and the combination proxy groups in my CAPM study, which is also supported
13 by historical beta estimates as shown on my Exhibit MPG-16.

14 **Q HOW DID YOU DERIVE YOUR MARKET RISK PREMIUM ESTIMATE?**

15 A I derived two market risk premium estimates: a forward-looking estimate and one based
16 on a long-term historical average. The forward-looking estimate was derived by
17 estimating the expected return on the market (as represented by the S&P 500) and
18 subtracting the risk-free rate from this estimate. I estimated the expected return on the
19 S&P inflation rate to the long-term historical arithmetic average real return on the
20 market. The real return on the market represents the achieved return above the rate of
21 inflation.

1 Historically, I relied on Kroll's 2023 *SBB* *Yearbook* to estimate the market real
2 return. However, Kroll's *SBB* *Yearbook* has been discontinued. Therefore, using the
3 same methodology to estimate the historical real return on the market over the period
4 1926-2023, I relied on data from Morningstar Direct. The historical arithmetic average
5 real market return over the period 1926-2023 is 9.02%.²⁶ A current consensus for
6 projected inflation, as measured by the GDP Deflator, is 2.20%.²⁷ Using these
7 estimates, the expected market return is 11.42%.²⁸ The market risk premium then is the
8 difference between the 11.42% expected market return and my 4.60% risk-free rate
9 estimate, or 6.82%, which I referred to as a normalized market risk premium.

10 A historical estimate of the market risk premium was also calculated by using
11 data provided by Morningstar Direct. Over the period 1926-2023, Morningstar Direct
12 estimated that the arithmetic average of the achieved total return on the S&P 500 was
13 12.16% and the total return on long term Treasury bonds was 5.62%.²⁹ The indicated
14 market risk premium is 6.54% (12.16% minus 5.62%).

15 The long-term Treasury bond yield of 5.62% occurred during a period of
16 inflation of approximately 3.02%, thus, implying a real return on long term Treasury
17 bonds of 2.60%.

²⁶ Morningstar Direct.

²⁷ Blue Chip Financial Forecasts, July 1, 2025, at 2.

²⁸ $[(1 + 0.0902) \times (1 + 0.0220) - 1] \times 100$.

²⁹ Morningstar Direct.

1 **Q HOW DOES YOUR ESTIMATED MARKET RISK PREMIUM RANGE**
2 **COMPARED TO THAT ESTIMATED BY KROLL AND MORNINGSTAR?**

3 A Kroll makes several estimates of a forward-looking market risk premium based on
4 actual achieved data from the historical period of 1926-2023, as well as normalized data.
5 Using this data, Kroll estimates a market risk premium derived from the total return on
6 the securities that comprise the S&P 500, less the income returns on Treasury bonds.
7 The total return includes capital appreciation, dividend or coupon reinvestment returns,
8 and annual yields received from coupons and/or dividend payments. The income return,
9 in contrast, only reflects the income return received from dividend payments or coupon
10 yields.

11 Kroll's range is based on several methodologies. As noted above, Kroll no
12 longer publishes the *SBBI Yearbook*. Utilizing data through 2023 from Morningstar
13 Direct, using the same methodology relied on by Kroll, the market risk premium is
14 7.32%, which is based on the difference between the total market return on common
15 stocks (S&P 500) less the income returns on 20-year Treasury bond investments over
16 the 1926-2023 period.³⁰

17 Second, Kroll used the Ibbotson & Chen supply-side model which produced a
18 market risk premium estimate of 6.22%.³¹ Kroll explains that the historical market risk
19 premium based on the S&P 500 was influenced by an abnormal expansion of
20 Price-to-Earnings ("P/E") ratios relative to earnings and dividend growth during the
21 period, primarily over the last 30 years. Kroll believes this abnormal P/E expansion is

³⁰ Kroll, 2023 *SBBI Yearbook* at 191; Morningstar Direct.

³¹ Kroll, 2023 *SBBI Yearbook* at 198-201.

1 not sustainable. In order to control for the volatility of extraordinary events and their
2 impacts on P/E ratios, Kroll takes into consideration the three-year average P/E ratio as
3 well as the current P/E ratio.³²

4 Finally, Kroll develops its own recommended equity, or market risk premium,
5 by employing an analysis that takes into consideration a wide range of economic
6 information, multiple risk premium estimation methodologies, and the current state of
7 the economy by observing measures such as the level of stock indices and corporate
8 spreads as indicators of perceived risk. Based on this methodology and utilizing the
9 higher of a “normalized” risk-free rate of 3.5%, Kroll concludes the current expected, or
10 forward-looking, market risk premium is 5.5%, implying an expected return on the
11 market of 9.0%. However, when the current market risk-free rate exceeds the normalized
12 risk-free rate, Kroll recommends applying the current 20-year Treasury yield of
13 approximately 4.7%. Currently, the 20-year Treasury yield is above the normalized
14 risk-free rate. Hence, based on Kroll’s methodology, the risk premium is 10.2%.³³

15 Importantly, Kroll’s market risk premiums are measured over a 20-year
16 Treasury bond. Because I am relying on a projected 30-year Treasury bond yield, the
17 results of my CAPM analysis should be considered conservative estimates for the cost
18 of equity.

³² *Id.* and Kroll, *Cost of Capital Navigator*, <https://www.kroll.com/en/cost-of-capital>.

³³ “Kroll Raises Recommended U.S. Equity Risk Premium Amid Increased Trade Uncertainty and a Cloudier Economic Outlook,” April 15, 2025.

Q WHAT ARE THE RESULTS OF YOUR CAPM ANALYSIS?

A As shown on my Exhibit MPG-17, using a current market risk-free rate of 4.60% and a projected market return of 11.42% produces a market risk premium of 6.82%. When combined with the beta of 0.77 as discussed above, this indicates a CAPM return estimate of 9.85%.

IV.H. Return on Equity Summary

Q BASED ON THE RESULTS OF YOUR RETURN ON COMMON EQUITY ANALYSES DESCRIBED ABOVE, WHAT RETURN ON COMMON EQUITY DO YOU RECOMMEND FOR KU/LGE?

A Based on my analyses, I recommend KU/LGE's current market cost of equity be in the range of 9.20% to 9.80%, with a point estimate of 9.50% as summarized in Table 9 below.

| TABLE 9 | |
|---|-----------------------|
| <u>Return on Common Equity Summary</u> | |
| <u>Description</u> | <u>Results</u> |
| DCF | 9.20% |
| Risk Premium | 9.75% |
| CAPM | 9.85% |

1 My market-based return on common equity of 9.50% falls within my estimated
2 range of 9.20% to 9.85%. The low-end of my range is based on my DCF studies, and
3 the high-end is based on my risk premium and CAPM studies.

4 The midpoint of my recommended range is particularly reasonable, given the
5 large common equity ratio recommended by the utilities in this case.

6 My return on equity estimates reflect observable market evidence, the impact of
7 the Fed's policies on current and expected long-term capital market costs, an assessment
8 of the current risk premium built into current market securities, and a general assessment
9 of the current investment risk characteristics of the regulated utility industry and the
10 market's demand for utility securities.

11 **III.I. Financial Integrity**

12 **Q WILL YOUR RECOMMENDED OVERALL RATE OF RETURN SUPPORT**
13 **AN INVESTMENT GRADE BOND RATING FOR KU/LGE?**

14 A Yes. I have reached this conclusion by comparing the key credit rating financial ratios
15 for KU/LGE at my proposed return on equity and capital structure to S&P's benchmark
16 financial ratios using S&P's new credit metric ranges.

17 **Q PLEASE DESCRIBE THE MOST RECENT S&P FINANCIAL RATIO CREDIT**
18 **METRIC METHODOLOGY.**

19 A S&P publishes a matrix of financial ratios corresponding to its assessment of the
20 business risk of utility companies and related bond ratings. On May 27, 2009, S&P

1 expanded its matrix criteria by including additional business and financial risk
2 categories.³⁴

3 Based on S&P's most recent credit matrix, the business risk profile categories
4 are "Excellent," "Strong," "Satisfactory," "Fair," "Weak," and "Vulnerable." Most
5 utilities have a business risk profile of "Excellent" or "Strong."

6 The financial risk profile categories are "Minimal," "Modest," "Intermediate,"
7 "Significant," "Aggressive," and "Highly Leveraged." Most of the utilities have a
8 financial risk profile of "Significant" or "Aggressive." I have assessed KU/LGE's credit
9 metrics based on an "Excellent" business risk profile and a "Significant" financial risk
10 profile based on the medial volatility tables, which is consistent with the ranking of
11 regulated utilities with no commodity risk.

12 **Q PLEASE DESCRIBE S&P'S USE OF THE FINANCIAL BENCHMARK**
13 **RATIOS IN ITS CREDIT RATING REVIEW.**

14 A S&P evaluates a utility's credit rating based on an assessment of its financial and
15 business risks. A combination of financial and business risks equates to the overall
16 assessment of KU/LGE's total credit risk exposure. On November 19, 2013, S&P
17 updated its methodology. In its update, S&P published a matrix of financial ratios that
18 defines the level of financial risk as a function of the level of business risk.

³⁴ S&P updated its 2008 credit metric guidelines in 2009, and incorporated utility metric benchmarks with the general corporate rating metrics. *Standard & Poor's RatingsDirect*: "Criteria Methodology: Business Risk/Financial Risk Matrix Expanded," May 27, 2009.

1 S&P publishes ranges for primary financial ratios that it uses as guidance in its
2 credit review for utility companies. The two core financial ratio benchmarks it relies on
3 in its credit rating process includes, (1) Debt to Earnings Before Interest, Taxes,
4 Depreciation and Amortization (“EBITDA”); and (2) Funds From Operations (“FFO”)
5 to Total Debt.³⁵

6 **Q HOW DID YOU APPLY S&P’S FINANCIAL RATIOS TO TEST THE**
7 **REASONABLENESS OF YOUR RATE OF RETURN RECOMMENDATIONS?**

8 A I calculated each of S&P’s financial ratios based on KU/LGE’s cost of service for its
9 regulated utility operations in its Kentucky service territory. While S&P would
10 normally look at total consolidated financial ratios in its credit review process, my
11 investigation in this proceeding is not the same as S&P’s. I am attempting to judge the
12 reasonableness of my proposed rate of return for rate-setting in KU/LGE’s Kentucky
13 regulated utility operations. Hence, I am attempting to determine whether my proposed
14 rate of return will in turn support cash flow metrics, balance sheet strength, and earnings
15 that will support an investment grade bond rating and KU/LGE’s financial integrity.

16 **Q DID YOU INCLUDE ANY OFF-BALANCE SHEET (“OBS”) DEBT**
17 **EQUIVALENTS?**

18 A Yes. Even though the Companies do not have a significant amount of off-balance sheet
19 debt equivalents, I obtained the imputed amount of the debt adjustments and the

³⁵ *Standard & Poor’s RatingsDirect*: “Criteria: Corporate Methodology,” November 19, 2013.

1 associated interest and depreciation expenses used by S&P to assess the Companies’
2 credit worthiness and included those in the development of my credit metrics.

3 **Q PLEASE DESCRIBE THE RESULTS OF THIS CREDIT METRIC ANALYSIS**
4 **AS IT RELATES TO KU.**

5 A The S&P financial metric calculations for KU at a 9.50% return are developed on
6 Exhibit MPG-18, page 1. The credit metrics are produced below. I relied on KU’s
7 financial risk profile from S&P of “Significant” and business risk profile of “Excellent,”
8 based on medial volatility benchmark table.

9 Based on an equity return of 9.50% and KU’s proposed common equity ratio of
10 53%, the Company will be provided an opportunity to produce a Debt to EBITDA ratio
11 of 2.5x. This is within S&P’s “Intermediate” guideline range of 2.5x-3.5x.³⁶ Please
12 note, a lower ratio indicates less risk due to greater EBITDA coverage of debt. This
13 ratio indicates that KU will be able to maintain its current investment grade bond rating
14 at my overall rate of return.

15 KU’s utility operations FFO to total debt coverage at a 9.50% equity return and
16 its proposed equity ratio of 53% is 28%, which is also within S&P’s “Intermediate”
17 metric guideline range of 23% to 35%. This ratio again suggests that KU’s cost of
18 service in this case would support its strong credit rating. The strong FFO/Debt ratio is
19 impacted by KU’s overreliance on equity capital and underreliance on debt capital. That

³⁶ *Standard & Poor’s RatingsDirect*®: “Criteria: Corporate Methodology,” November 19, 2013.

1 is, it has an overstated equity weight of total capital, which enhances its cash flow
2 coverages of debt and lowers its financial risks.

3 I conclude that KU's core credit metrics ratios, based on the Company's
4 proposed capital structure and my return on equity, will support an investment grade
5 credit standing for KU.

6 **Q PLEASE DESCRIBE THE RESULTS OF THIS CREDIT METRIC ANALYSIS**
7 **AS IT RELATES TO LGE.**

8 A The S&P financial metric calculations for LGE at a 9.50% return are developed on
9 Exhibit MPG-18, page 2. I relied on LGE's financial risk profile from S&P of
10 "Significant" and business risk profile of "Excellent," based on medial volatility
11 benchmark table.

12 Based on an equity return of 9.50% and LGE's proposed common equity ratio
13 of 53%, the Company will be provided an opportunity to produce a Debt to EBITDA
14 ratio of 2.7x. This is within S&P's "Intermediate" guideline range of above 2.5x-3.5x.³⁷
15 This ratio indicates that LGE will be able to maintain its current investment grade bond
16 rating at my overall rate of return.

17 LGE's utility operations FFO to total debt coverage at a 9.50% equity return and
18 its proposed equity ratio of 53% is 26%, which is also within S&P's "Intermediate"
19 metric guideline range of 23% to 35%. This ratio also suggests that LGE's cost of
20 service in this case would support its strong credit rating. The strong FFO/Debt ratio is

³⁷ *Standard & Poor's RatingsDirect*®: "Criteria: Corporate Methodology," November 19, 2013.

1 impacted by LGE's overreliance on equity capital and underreliance on debt capital.
2 That is, it has an overstated equity weight of total capital which enhances its cash flow
3 coverages of debt and lowers its financial risks.

4 I conclude that LGE's core credit metrics ratios based on the Company's
5 proposed capital structure and my return on equity will support an investment grade
6 credit standing for LGE.

7 **IV. RESPONSE TO KU/LGE**
8 **WITNESS MR. DYLAN D'ASCENDIS**

9 **Q WHAT RETURN ON COMMON EQUITY IS KU/LGE PROPOSING FOR THIS**
10 **PROCEEDING?**

11 **A** Mr. D'Ascendis estimates an unadjusted market return on equity in the range of 10.29%
12 to 11.92% using three market models – DCF, risk premium, and CAPM – applied to a
13 utility proxy group and a non-price regulated proxy group. He then includes three return
14 on equity adders to his estimated market return on equity for LG&E and KU: (1) a size
15 adjustment in the range of 5-15 basis points, (2) a credit risk adjustment of 7 basis points
16 (reduction), and (3) a flotation cost adjustment of 15 basis points. With these adders to
17 his market return on equity for his electric and gas proxy groups, Mr. D'Ascendis
18 recommends a return on equity in the range of 10.46% to 12.22% with a point estimate
19 return of 10.95%.³⁸

³⁸ D'Ascendis Direct Testimony at 4 and Exhibit DWD-1.

1 **Q IS MR. D’ASCENDIS’ ESTIMATED UNADJUSTED RETURN ON EQUITY**
2 **REASONABLE?**

3 A No. Mr. D’Ascendis’ estimated unadjusted market return in the range of 10.29% to
4 11.92% for his proxy groups’ companies is significantly overstated based on his use of
5 unsustainable growth rate estimates in his DCF analyses and overstated risk premium
6 estimates for both his risk premium and CAPM models. Also, his unadjusted market
7 return proposed return on equity adders in the range of 13-30 basis points are not
8 cost-justified and further inflate his recommended return on equity, which exceeds his
9 own market cost of equity estimates. These equities return adders should be rejected.

10 **Q PLEASE DESCRIBE MR. D’ASCENDIS’ METHODOLOGIES USED TO**
11 **SUPPORT HIS ESTIMATE OF THE MARKET COST OF COMMON EQUITY**
12 **FOR KU/LGE.**

13 A Mr. D’Ascendis estimates a return on equity for KU/LGE based on the DCF model, a
14 Risk Premium (“RP”) model, that he calls the Predictive Risk Premium Model™
15 (“PRPM™”), a bond yield plus risk premium model, as well as the traditional and
16 empirical forms of the CAPM. Mr. D’Ascendis applies these models to both a gas and
17 electric utility proxy groups and a non-price regulated proxy group. The high-end
18 (11.92%(gas) / 11.84%(electric)) of Mr. D’Ascendis’ range is based on his non-price
19 regulated proxy groups results. The low-end of his range (10.29%(gas) / 10.32%
20 (electric)) was based on the DCF estimate produced by his proxy group.³⁹

³⁹ D’Ascendis Direct Testimony at 4-5.

1 **Q PLEASE SUMMARIZE MR. D’ASCENDIS’ RESULTS.**

2 **A Mr. D’Ascendis’ results are summarized in Table 10 below.**

| TABLE 10 | | | | |
|--|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|
| <u>Summary of Mr. D’Ascendis’ Return on Equity Estimates</u> | | | | |
| <u>Models</u> | <u>D’Ascendis</u> | | <u>Adjusted</u> | |
| | <u>Gas</u> (1) | <u>Electric</u> (2) | <u>Gas</u> (3) | <u>Electric</u> (4) |
| DCF | 10.29% | 10.32% | 8.42% | 8.69% |
| RP | 10.86% | 10.79% | 9.86% | 9.86% |
| CAPM | 11.12% | 10.75% | 10.00% | 9.60% |
| Non-Price Regulated Companies | <u>11.92%</u> | <u>11.84%</u> | <u>Reject</u> | <u>Reject</u> |
| Indicated Return on Equity | 10.29%-11.92% | 10.32%-11.84% | 9.50% | 9.50% |
| Size Adjustment | 0.15% | 0.05%-0.10% | Reject | Reject |
| Credit Risk Adjustment | 0.00% | -0.07% | Reject | Reject |
| Flotation Cost Adjustment | <u>0.15%</u> | <u>0.15%</u> | Reject | Reject |
| Total Adders | 0.30% | 0.13%-0.18% | Reject | Reject |
| Return on Equity Range | 10.59%-12.22% | 10.46%-12.03% | | |
| Recommended Return on Equity | <u>10.95%</u> | <u>10.95%</u> | <u>9.50%</u> | |
| <hr/> Sources: D’Ascendis Direct Testimony at 4-5 and Schedule (DWD)-1, page 2. | | | | |

3 For the reasons outlined below, reasonable adjustments to Mr. D’Ascendis’
4 return on equity estimates show that my recommended return of 9.50% is reasonable.

1 **IV.A. D’Ascendis’ Proposed Size Adjustment Adder**

2 **Q PLEASE DESCRIBE THE SIZE ADJUSTMENT RETURN ON EQUITY**
3 **ADDER PROPOSED BY MR. D’ASCENDIS.**

4 A Mr. D’Ascendis proposes to add a return on equity adder of 15 basis points to his gas
5 proxy group market return and 5-10 basis points for his electric proxy group to reflect
6 his belief that KU and LGE have greater risk relative to that of his proxy groups, due to
7 their market capitalization size.⁴⁰

8 **Q HOW DID MR. D’ASCENDIS ESTIMATE THIS 5-15 BASIS POINT CAPITAL**
9 **SIZE ADDER?**

10 A Mr. D’Ascendis approximates a market value for KU/LGE (KU and LGE are not
11 publicly traded and do not have a market value) and compares their market size to the
12 actual market capitalization size for his utility proxy groups. Mr. D’Ascendis estimates
13 that the gas proxy group market valuation is about 4.0 times larger than his estimated
14 market value for LGE (gas). Similarly, he estimates that the electric proxy group market
15 valuation is about 2.6 times larger than his estimated market value for LGE (electric)
16 and 4.2 times greater than KU.

17 He then compares the actual market capitalization size for the proxy groups, and
18 his estimated proxy value weight for KU/LGE, to the market capitalization size deciles
19 published by Kroll.

⁴⁰ D’Ascendis Direct Testimony at 49-56.

1 He relies on 2024 Kroll Cost of Capital Navigator estimated CAPM return
2 difference for companies that fall within market capitalization size deciles. Mr.
3 D'Ascendis estimates that the proxy groups' market capitalization sizes puts them in
4 the approximate 4th decile (gas) and 2nd decile (electric) of returns as estimated by Kroll,
5 and his estimated market capitalization for KU, LGE (electric) and LGE (gas) puts it in
6 the 4th, 5th, and 7th decile size return category. According to Mr. D'Ascendis, this
7 indicates a return on equity adder in the range of 0.18% to 0.75% to reflect the difference
8 in risk caused by market capitalization size.⁴¹ However, using his judgment, Mr.
9 D'Ascendis recommends a return on equity size adder of 5 basis points for KU, 10 basis
10 points for LGE (electric) and 15 basis points for LGE (gas).⁴²

11 **Q IS MR. D'ASCENDIS' PROPOSED 5-15 BASIS POINT SIZE RETURN ON**
12 **EQUITY ADDER FOR KU/LGE REASONABLE?**

13 A No. There are several problems with this size adjustment. First, Mr. D'Ascendis
14 applied a size adjustment without even considering the average capitalization of his
15 proxy groups relative to the capitalization structure that supports KU and LGE, which
16 is their parent PPL Corp. A return on equity adder is not justified in the way performed
17 by Mr. D'Ascendis because he has not accurately measured the corporate structure
18 which owns the Companies. Specifically, their parent company has a market
19 capitalization of \$27 billion, almost twice the size of the proxy groups. This higher
20 capitalization warrants a reduction to the pure CAPM return.

⁴¹ D'Ascendis Direct Testimony at 52 and Exhibit DWD-8.

⁴² D'Ascendis Direct Testimony at 53.

Further, the size adjustment, as applied by Mr. D’Ascendis, is not risk comparable to KU and LGE and should be rejected.

Q WHY IS MR. D’ASCENDIS’ SIZE ADJUSTMENT NOT RISK COMPARABLE TO KU AND LGE?

A His size adjustment is based on companies that have significantly more systematic risks that are not reflective of the utility industry or KU and LGE. The size adjustment relied on by Mr. D’Ascendis reflects companies that have unadjusted beta estimates well in excess of 1.00.⁴³ I have provided the beta estimates, as calculated by Kroll, for each decile below in Table 11.

| TABLE 11 | | | | | | | |
|---|-----------------------------------|--------------|------------------------------|--------------------|-----------------------|------------------------|--|
| <u>Kroll Size Adjustments and Corresponding Betas</u> | | | | | | | |
| CRSP Decile | Market Cap (\$ Bill) ¹ | | Size Premium ¹ | Beta | | | |
| | Smallest | Largest | | Kroll ¹ | VL Proxy ² | Raw Proxy ³ | |
| 1 | \$ 36,943 | \$ 2,662,326 | -0.06% | 0.92 | 0.76 | 0.61 | |
| 2 | \$ 14,911 | \$ 36,391 | 0.46% | 1.04 | 0.76 | 0.61 | |
| 3 | \$ 7,494 | \$ 14,820 | 0.61% | 1.10 | 0.76 | 0.61 | |
| 4 | \$ 4,622 | \$ 7,461 | 0.64% | 1.13 | 0.76 | 0.61 | |
| 5 | \$ 3,011 | \$ 4,622 | 0.95% | 1.16 | 0.76 | 0.61 | |
| 6 | \$ 1,864 | \$ 3,011 | 1.21% | 1.18 | 0.76 | 0.61 | |
| 7 | \$ 1,050 | \$ 1,862 | 1.39% | 1.25 | 0.76 | 0.61 | |
| 8 | \$ 556 | \$ 1,046 | 1.14% | 1.30 | 0.76 | 0.61 | |
| 9 | \$ 213 | \$ 555 | 1.99% | 1.33 | 0.76 | 0.61 | |
| 10 | \$ 2 | \$ 213 | 4.70% | 1.38 | 0.76 | 0.61 | |
| Sources: | | | | | | | |
| ¹ 2024 Kroll Cost of Capital Navigator, 2024 CRSP Decile Study December 31, 2023. | | | | | | | |
| ² D’Ascendis Direct Testimony, Exhibit DWD-5, average of electric (0.73) and gas (0.79). | | | | | | | |
| ³ Raw Beta = (VL Beta - 0.35) / 0.67. | | | | | | | |

⁴³ 2024 Kroll Cost of Capital Navigator, 2024 CRSP Deciles Size Study, December 31, 2023.

1 These unadjusted beta estimates are substantially higher than the average
2 adjusted *Value Line* beta of 0.73 (electric) and 0.79 (gas) used by Mr. D'Ascendis as
3 reflective of the Company's investment risk. To put this into a more of an
4 apple-to-apples comparison, I have also provided the average unadjusted Ordinary Least
5 Squares beta for Mr. D'Ascendis' proxy groups of 0.76 (average of electric and gas).
6 As shown above, every decile measured by *Kroll* has a much higher beta than Mr.
7 D'Ascendis' utility group. The typical company in each decile is much riskier than the
8 typical utility company. Because of this significant disparity in risk, as measured by
9 beta, Mr. D'Ascendis size adjustment produces a CAPM return estimate that does not
10 produce a risk appropriate return for KU and LGE and, therefore, should be rejected.

11 **Q CAN YOU EXPLAIN HOW BETA CORRESPONDS WITH THE LEVEL OF**
12 **INVESTMENT RISK FOR A COMPANY AND, THEREFORE, PRODUCES AN**
13 **APPROPRIATE RISK-ADJUSTED RETURN FOR A SUBJECT COMPANY?**

14 **A**Yes. Beta represents a measure of systematic or non-diversifiable, market-related risk.
15 All subject companies' betas are measured relative to that of the overall market and
16 adjusted upward by *Value Line*. The market beta is considered to be 1.0. For companies
17 that have betas greater than 1, they are regarded as having more risk than the overall
18 market. For companies that have betas less than 1, they are regarded to have risk less
19 than the overall market.

1 For these reasons, utility companies, which consistently and predictably have
2 adjusted betas far less than 1 (usually in the range of 0.60 to 0.80 depending on market
3 conditions), are generally reflective of lower risk investment options.

4 **IV.B. D'Ascendis' Proposed Credit Risk Adjustment**

5 **Q SHOULD MR. D'ASCENDIS' PROPOSED -7 BASIS POINT RETURN ON**
6 **EQUITY ADDER FOR CREDIT RISK BE INCLUDED IN KU/LGE RETURN**
7 **ON EQUITY?**

8 **A** No, it should not. Mr. D'Ascendis proposed a downward adjustment of 7 basis points
9 for his electric group only to reflect the higher credit rating of the proxy group relative
10 to KU and LGE electric operations.⁴⁴ As stated above, the proxy group average credit
11 ratings of BBB+ from S&P and Baa2 from Moody's are lower but comparable to KU
12 and LGE's credit ratings of A- from S&P and A3 from Moody's. The proxy group are
13 a reasonable risk proxy to KU and LGE and this external adjustment to the estimated
14 market cost of equity is not justified and should be rejected.

15 **IV.C. D'Ascendis' Proposed Flotation Cost Adjustment**

16 **Q PLEASE DESCRIBE MR. D'ASCENDIS' PROPOSED FLOTATION COST**
17 **ADJUSTMENT TO KU/LGE'S RETURN ON EQUITY.**

18 **A** Mr. D'Ascendis estimates a flotation cost adjustment by modifying the DCF model to
19 account for the flotation costs since 2010. Specifically, Mr. D'Ascendis estimates that

⁴⁴D'Ascendis Direct Testimony at 57-58.

1 the issuance of common equity netted in total flotation costs of around \$229.2 million.
2 He estimates that this accounted for approximately 3.81% of the total gross proceeds in
3 those stock sales. He then approximated a 15 basis point return on equity adjustment
4 by reducing the stock price in the DCF formula by a factor of 1 minus this flotation cost
5 adder of 3.81%. This resulted in a DCF return of 10.47% accounting for flotation costs,
6 compared to 10.32% when flotation costs are not accounted for.⁴⁵

7 **Q IS MR. D'ASCENDIS' 15 BASIS POINT FLOTATION COST ADJUSTMENT**
8 **REASONABLE?**

9 A No. The adder is not based on the recovery of prudent and verifiable actual flotation
10 costs incurred by KU/LGE. As shown on his Exhibit DWD-10, Mr. D'Ascendis derives
11 a flotation cost adder based on the equity issuances made by KU and LGE's parent
12 company, PPL Corp. Because he does not show that his adjustment is based on the
13 utilities' actual and verifiable flotation expenses, there are no means of verifying
14 whether Mr. D'Ascendis' proposal reflects reasonable and prudent costs. Mr.
15 D'Ascendis' flotation cost return on equity adder is not based on known and measurable
16 costs. Therefore, this flotation cost return on equity adder is unreasonable and should
17 be denied.

⁴⁵*Id.*, D'Ascendis Direct Testimony at 58-61, Exhibit DWD-10.

1 **IV.D. D'Ascendis' DCF**

2 **Q PLEASE DESCRIBE MR. D'ASCENDIS' DCF ANALYSIS.**

3 A Mr. D'Ascendis performed a constant growth DCF analysis on his proxy group. He
4 relied on analysts' earnings growth rate projections from *Value Line*, Zack's, and S&P
5 Capital IQ. The average growth rates for his gas and electric proxy groups are 6.50%
6 and 6.42%, respectively. (Exhibit DWD-3, page 1). He used an annualized dividend
7 and a 60-day average stock price to calculate the proxy groups' dividend yield. The
8 mean and median results of his gas DCF analysis are 10.27% and 10.31%, respectively,
9 with an average gas DCF return of 10.29%. The mean and median results of his electric
10 DCF analysis are 10.33% and 10.30%, respectively, with an average electric DCF return
11 of 10.32%.

12 **Q DO YOU HAVE ANY COMMENTS CONCERNING MR. D'ASCENDIS' DCF**
13 **RETURN ESTIMATES?**

14 A Yes. Similar to my DCF model, his proxy groups' average DCF returns are based on a
15 growth rate around 6.40%, which is higher than the consensus economists' projected
16 growth rate for the economy (4.10%). This growth rate is excessive and cannot
17 reasonably be expected to last into perpetuity, the time period which is assumed by the
18 constant growth DCF model. As I discussed in detail above, company growth rates that
19 exceed the growth rate of GDP in the economy in which a company provides goods and
20 services cannot be sustained. I also discussed how over time, even with extended capital

investment, growth rates will slow. Therefore, it is necessary to consider a multi-stage DCF model, which reflects a sustainable growth rate.

Q IS THERE A WAY TO CORRECT MR. D'ASCENDIS' DCF MODEL TO PRODUCE A REASONABLE DCF RETURN?

A Yes. In Column 2 in Table 11 above and my Exhibit MPG-19, using Mr. D'Ascendis' data, I present the results of a multi-stage DCF model that is similar to my multi-stage model which reflects a reasonable long-term sustainable growth rate of 4.10%, as discussed in regard to my own studies.

As shown on my Exhibit MPG-19, the average and median DCF returns for the gas proxy group are 8.50% and 8.42%, respectively. The average and median DCF results for the electric proxy group are 8.69% and 8.57%, respectively. Therefore, considering both the multi-stage DCF and Mr. D'Ascendis' constant growth DCF results, the gas DCF return falls in the range of 8.42% to 10.29%. The electric multi-stage and constant growth DCF produced by Mr. D'Ascendis result in a DCF in the range of 8.57% to 10.32%. Therefore, a reasonable DCF return, applying both Mr. D'Ascendis' DCF model and a multi-stage DCF model, is about 9.40%.

IV.E. D'Ascendis' Risk Premium

Q PLEASE DESCRIBE MR. D'ASCENDIS' RISK PREMIUM ANALYSIS.

A Mr. D'Ascendis estimated a gas risk premium return based on the results of a PRPM™ risk premium (10.86%) and a projected utility bond risk premium (10.81%). Similarly,

1 he estimated an electric risk premium return based on the results of a PRPM™ risk
2 premium (10.79%) and a projected utility bond risk premium (10.74%). (Exhibit DWD-
3 4, page 1).

4 **Q DO YOU HAVE ANY COMMENTS CONCERNING MR. D’ASCENDIS’**
5 **PRPM™ RISK PREMIUM STUDY.**

6 A Even though the results produced by PRPM™ risk premium and his projected utility
7 risk premium are almost identical, Mr. D’Ascendis’ PRPM™ should be disregarded for
8 the following reasons. Mr. D’Ascendis’ PRPM™ risk premium measures the volatility
9 of annual return based on a time-varying comparison of the volatility of a stock index
10 “total” return, compared to the volatility of a Treasury Bond “income” return, or yield.
11 Mr. D’Ascendis claims that this methodology is consistent with the autoregressive
12 conditional heteroscedasticity (“ARCH”) methodology published by Robert F. Engle in
13 the *Journal of Regulatory Economics*. However, he has not demonstrated that his
14 proposed comparison between the annual volatility on the total returns of equities and
15 the annual volatility of Treasury bond yields produces an accurate historical database in
16 order to draw projections of return volatility going forward.

17 More importantly, Mr. D’Ascendis’ methodology is based on a mismatch of
18 total returns for stocks (i.e., including capital gains and losses plus dividend income),
19 compared to a return on bond yield investments only. Therefore, his ARCH
20 methodology does not capture volatility of bond returns comparably to stock returns.

1 His returns are not directly comparable because he should have used total returns for
2 both stock and bond investments.

3 To explain, a significant component of return volatility on both stocks and bonds
4 are created by capital gains and losses (i.e., changes in the prices of the stocks or bonds).
5 Without recognizing capital gains and losses, stock return volatility and bond return
6 volatility would be muted significantly. This is a significant distinction because Mr.
7 D'Ascendis reflects the increased return volatility for stocks based on capital gains and
8 losses but ignores this significant investment return component for bond yields.
9 Therefore, Mr. D'Ascendis has not accurately measured the level of the risk premium,
10 nor has he accurately characterized the volatility across time caused by market factors.
11 Importantly, both stock and bond returns will be impacted by the capital gains and losses
12 created by market factors that influence stock prices and bond prices. By including
13 capital gains for stocks, but not bonds, Mr. D'Ascendis has significantly understated the
14 return volatility of investing in bonds and inflated the equity risk premium. This
15 methodology simply is not balanced and does not reflect an accurate measurement of a
16 market risk premium.

17 **Q HAS THE COMMISSION COMMENTED ON THE RELIABILITY AND**
18 **REASONABLENESS OF MR. D'ASCENDIS' PRPM™?**

19 **A** Yes. This methodology is not generally used in regulatory proceedings. Specifically,
20 the Kentucky Public Service Commission recently rejected the PRPM™ analysis
21 despite the model being published. The Kentucky Commission stated that it does not

1 accept the methodology and noted that it is not aware of other commissions that have
2 found acceptance of the model.⁴⁶

3 Similarly, as noted on page 30 of Mr. D'Ascendis' direct testimony, the
4 PRPMTM analysis was again rejected by the Commission in Case No. 2022-00432
5 concerning Bluegrass Water Utility Operating Company L.L.C.

6 Therefore, the Commission should disregard Mr. D'Ascendis' PRPMTM
7 analysis.

8 **Q PLEASE DESCRIBE MR. D'ASCENDIS' UTILITY RISK PREMIUM STUDY.**

9 A Mr. D'Ascendis' utility risk premium model is based on a projected utility bond yield
10 of 5.80% (gas) and 5.86% (electric) and an average equity risk premium of 5.01% (gas)
11 and 4.88% (electric). The projected electric utility yield has been adjusted to account
12 for the risk differential between an A-rated utility bond yield and the proxy group credit
13 rating. (Exhibit DWD-4, page 3).

14 The gas (electric) 5.06% (4.93%) risk premium used by Mr. D'Ascendis is the
15 result of three separate risk premium study results of 5.68% (5.25%), 4.76% and 4.73%
16 (5.77%), respectively. The first gas (electric) risk premium result of 5.68% (5.25%)
17 was developed on page 6 of Exhibit DWD-4. This risk premium was based on five
18 estimates of equity risk premiums: three based on the Kroll data, including an equity
19 risk premium of 6.10%; a regression risk premium of 6.72%; and his PRPMTM risk
20 premium of 7.32%, as well as an equity risk premium estimated based on *Value Line*

⁴⁶Atmos Energy Corporation before the Commonwealth of Kentucky Public Service Commission, Case No. 2021-00214, Final Order at pages 47 and 48.

1 Summary and Index Data of 5.85%; and an S&P 500 DCF derived equity risk premium
2 using *Value Line*, Bloomberg and S&P Capital IQ data of 9.88%. The average of these
3 four risk premium estimates of 7.16% (excluding the PRPMTM) was then adjusted by
4 his proxy group average gas (electric) beta of 0.79 (0.73), to produce a risk premium
5 estimate of 5.66% (5.23%).

6 The second risk premium of 4.65% is based on a historical equity risk premium
7 of the S&P Utility Index of 4.16%, averaged with Mr. D'Ascendis' regression risk
8 premium 4.80%, PRPMTM risk premium of 5.07%, and a forecasted equity risk premium
9 of the total returns of the S&P Utility Index from *Value Line*, Bloomberg and S&P
10 Capital IQ of 5.00%. The average of these three risk premiums is 4.65% (excluding the
11 PRPMTM) as shown on page 9 of Exhibit DWD-4.

12 The third gas (electric) risk premium of 4.73% (4.77%) is based on a regression
13 analysis of 848 (gas) and 1,257(electric) fully litigated rate cases for the period 1980 to
14 January 2025.

15 **Q DO YOU HAVE ANY COMMENTS CONCERNING MR. D'ASCENDIS'**
16 **UTILITY RISK PREMIUM?**

17 **A** Yes. This gas (electric) risk premium of 10.81% (10.79%) was based on a projected
18 prospective bond yield of 5.80% (5.86%) and an equity risk premium of 5.01% (4.88%),
19 respectively.

20 Mr. D'Ascendis' utility gas (electric) risk premium of 5.01% (4.88%) was based
21 on an overly simplistic regression analysis. His regression model assumed that there is

1 a simplistic inverse relationship between equity risk premiums and interest rates. This
2 assumption ignores changes in the risk premiums that relate to other market factors
3 which create differences in investment risk between stock and bond investments.
4 Academic studies are clear that interest rates are a relevant factor in assessing current
5 market equity risk premiums, but risk premiums tie more specifically to the market's
6 perception of investment risk of debt and equity securities, and not simply changes in
7 interest rates.

8 More specifically, while academic studies have shown that, in the past, there has
9 been an inverse relationship among these variables, researchers have found that the
10 relationship changes over time and is influenced by changes in perception of the risk of
11 bond investments relative to equity investments, and not simply changes to interest
12 rates.⁴⁷

13 In the 1980s, equity risk premiums were inversely related to interest rates, but
14 that was likely attributable to the interest rate volatility that existed at that time. As
15 such, when interest rates were more volatile, perceptions of bond investment risk
16 increased relative to the investment risk of equities. This changing investment risk
17 perception caused changes in equity risk premiums.

18 In today's marketplace, interest rate volatility is not as extreme as it was during
19 the 1980s.⁴⁸ Nevertheless, changes in the perceived risk of bond investments relative

⁴⁷Robert S. Harris & Felicia C. Marston, "The Market Risk Premium: "Expectational Estimates Using Analysts' Forecasts," *Journal of Applied Finance*, Volume 11, No. 1, 2001 at 10-13; Eugene F. Brigham, Dilip K. Shome, & Steve R. Vinson, "The Risk Premium Approach to Measuring a Utility's Cost of Equity," *Financial Management*, Spring 1985, at 42-43.

⁴⁸"The Risk Premium Approach to Measuring a Utility's Cost of Equity," *Financial Management*, Spring 1985, at 44.

1 to equity investments still drive changes in equity premiums and cannot be measured
2 simply by observing nominal interest rates. Changes in nominal interest rates are
3 heavily influenced by changes to inflation outlooks, which also change equity return
4 expectations. As such, the relevant factor needed to explain changes in equity risk
5 premiums is the relative changes between the risk of equity versus debt investments,
6 and not simply changes in interest rates.

7 Importantly, Mr. D'Ascendis' analysis simply ignores investment risk
8 differentials. He bases his adjustment to the equity risk premium exclusively on changes
9 in nominal interest rates. This is a flawed methodology that does not produce accurate
10 or reliable risk premium estimates.

11 **Q DO YOU BELIEVE THAT THE REGRESSION STUDY USED BY MR.**
12 **D'ASCENDIS IN HIS RISK PREMIUM ANALYSIS DEMONSTRATES AN**
13 **ACCURATE CAUSE AND EFFECT BETWEEN INTEREST RATES AND**
14 **EQUITY RISK PREMIUMS?**

15 **A** No. Because the returns on equity he uses are authorized by commissions, those returns
16 on equity are not directly adjusted by market forces. Rather, authorized equity returns
17 are adjusted by commission policy and regulatory practices. In contrast, bond interest
18 rates or bond yields are controlled entirely by market forces.

19 Equity risk premiums can move based on changes in market conditions that can
20 impact both equity returns and bond returns in a like manner. This simple regression

analysis of equity risk premiums and interest rates ignores these relevant market factors in describing the current market-required equity risk premium.

Q DO YOU HAVE ANY FURTHER ISSUES WITH MR. D'ASCENDIS' RISK PREMIUM MODEL?

A Yes. Mr. D'Ascendis' equity risk premium of 5.66% (gas) and 5.23% (electric) is based on DCF-derived total return of 15.23%⁴⁹ from *Value Line*, Bloomberg and S&P Capital IQ, which consist of an average dividend yield of 2.08% and growth rate of 13.16%. As discussed in more detail below in regard to Mr. D'Ascendis' CAPM studies, and in regard to my own DCF studies, a growth rate of 13.16% significantly exceeds the average consensus analyst growth rate of the U.S. economy of 4.1% and produces unreliable results.

Q CAN MR. D'ASCENDIS' RISK PREMIUM MODELS BE USED TO ESTIMATE A FAIR RETURN FOR KU/LGE?

A Only generally. As discussed in regard to my own risk premium analysis, the current Baa and A utility yields to Treasury spreads have significantly declined, which supports a below average equity risk premium. The observable evidence shows that current equity risk premiums are very low in relation to bond risk premiums. A risk premium for the current market is about 3.90%, which is about 90% of the historical utility risk premium (4.33% x 0.90). This risk premium, combined with an updated A-rated utility

⁴⁹ Exhibit DWD-4, page 6, Note 5 and Exhibit DWD-5, Page 3, Note 1.

1 bond yield of 5.96%, produces a risk premium return of approximately 9.86% (3.90%
2 plus 5.96%) for KU and LGE.

3 **IV.F. D'Ascendis' CAPM**

4 **Q HOW DID MR. D'ASCENDIS DERIVE HIS CAPM RETURN ESTIMATE FOR**
5 **KU and LGE?**

6 A Mr. D'Ascendis developed his CAPM return estimate on his Exhibit DWD-5. As shown
7 on that schedule, he relied on a market risk premium of 8.14%, a risk-free rate of 4.55%,
8 on proxy group betas of 0.79 for his gas proxy group, and 0.73 for his electric proxy
9 group, which was the average of the mean and median beta published by Bloomberg
10 and *Value Line*. Using these parameters, Mr. D'Ascendis produces a CAPM return of
11 10.96% for his gas proxy group and 10.47% for his electric proxy group.

12 **Q DO YOU HAVE ANY ISSUES WITH MR. D'ASCENDIS' CAPM STUDY?**

13 A I disagree with several aspects of his methodology. First, his market risk premium of
14 8.15% is excessive and unreliable due to the unsustainable growth rates he used to
15 develop a market return. Second, his market risk premium estimates suffer from many
16 of the same previously described flaws surrounding his equity risk premium estimates
17 such as his reliance on the unproven PRPMTM methodology.

1 **Q WHY DO YOU BELIEVE MR. D’ASCENDIS’ MARKET RISK PREMIUM IS**
2 **EXCESSIVE AND UNRELIABLE?**

3 A Mr. D’Ascendis averages 4 market risk premium estimates to develop his recommended
4 market risk premium of 8.14% (excluding the PRPM™ methodology).

5 His first market risk premium estimate is based on historical Kroll data. With
6 this methodology, he estimates a market risk premium of 7.31%. His second market
7 risk premium is based on a regression analysis and produced a risk premium of 7.94%.
8 His third market risk premium is based on the application of his PRPM™ method using
9 historical Ibbotson data. This method produces a market risk premium of 8.18%.

10 His fourth market risk premium is based on a *Value Line* 3-5 year projected
11 market return of 11.20% less his risk-free rate of 4.55% to derive an expected market
12 risk premium on the *Value Line* index of 6.65%.

13 His fifth market risk premium is based on a *Value Line*, Bloomberg and S&P
14 Capital IQ projected return on the S&P 500 of 15.23%, which produced a risk premium
15 of 10.68% after his risk-free rate of 4.55% is subtracted.

16 The average of these 4 market risk premiums is 8.14% (excluding the PRPM™
17 method). (Exhibit DWD-5, page 3).

1 **Q ARE THE RESULTS OF MR. D’ASCENDIS’ CAPM ESTIMATE**
2 **REASONABLE?**

3 A No. His market risk premium estimates based on the *Value Line*, Bloomberg and S&P
4 Capital IQ (fifth) projected returns on the market are significantly overstated and not
5 reasonable.

6 **Q PLEASE EXPLAIN WHY MR. D’ASCENDIS’ VALUE LINE, BLOOMBERG**
7 **AND S&P CAPITAL IQ MARKET RISK PREMIUMS ARE NOT**
8 **REASONABLE.**

9 A Mr. D’Ascendis’ *Value Line*, Bloomberg and S&P Capital IQ DCF-derived market risk
10 premium is based on inflated market returns of 15.23%, which are based on growth
11 rates of 13.16% and market dividend yields of 2.08%.

12 As discussed above, the DCF model requires a long-term sustainable growth
13 rate. Mr. D’Ascendis’ sustainable market growth rates of 13.16% are far too high to be
14 a rational outlook for sustainable long-term market growth. These growth rates are more
15 than three times higher than the consensus analysts’ projected long-term growth of the
16 U.S. GDP of 4.10%.

17 As a result of his inflated long-term market growth rate, Mr. D’Ascendis’
18 projected market returns are likewise inflated and not reliable. Mr. D’Ascendis’ *Value*
19 *Line*, Bloomberg and S&P Capital IQ risk premiums of 10.68% should be given no
20 weight in estimating a fair return for KU and LGE in this case.

1 **Q DO HISTORICAL ACTUAL RETURNS ON THE MARKET SUPPORT MR.**
2 **D’ASCENDIS’ PROJECTED MARKET RETURNS?**

3 A No. Mr. D’Ascendis relies on historical market returns data to develop one of his market
4 risk premiums. The market risk premium he developed using historical data is 7.31%
5 percent, or about 300 basis points less than his projected market returns based on *Value*
6 *Line*, Bloomberg and S&P Capital IQ market returns. This historical data shows just
7 how unreasonable Mr. D’Ascendis’ projected returns on the market are going forward.

8 Applying Kroll’s methodology and using updated data from Morningstar Direct,
9 the actual capital appreciation for the S&P 500 over the period 1926 through 2023 has
10 been 6.2% to 8.1%.⁵⁰ This contrasts sharply to Mr. D’Ascendis’s own projected growth
11 rate of the market of 13.16%.

12 Further, historically, the geometric growth of the market of 6.2%⁵¹ has reflected
13 the geometric growth of the GDP over this same time period of approximately 6.1%.⁵²

14 Notably, this review of historical data establishes two facts. First, historical,
15 actual achieved growth has been substantially less than the one projected by Mr.
16 D’Ascendis. Second, historical growth of the market has tracked historical growth of
17 the U.S. GDP. Projected growth of the U.S. GDP is now closer to the 4.0% to 4.5%
18 range. All this information strongly supports the conclusion that Mr. D’Ascendis’
19 projected growth rate on the market of 13.16% is substantially overstated. While I do
20 not endorse the use of a historical growth rate to draw assessments of the market’s

⁵⁰Kroll, *2023 SBBI Yearbook* at 137 and Morningstar Direct.

⁵¹*Id.*

⁵²U.S. Bureau of Economic Analysis, March 27, 2025.

forward-looking growth rate outlooks, this data can be used as a check of Mr. D'Ascendis' market return estimate and to show how unreasonable and inflated it is.

Q CAN MR. D'ASCENDIS' CAPM ANALYSIS BE REVISED TO REFLECT A MORE REASONABLE MARKET RISK PREMIUM AND RECENT RISK-FREE RATES?

A Yes. Relying on Mr. D'Ascendis' risk-free rate of 4.55%, on the gas and electric proxy groups beta of 0.79 and 0.73, and my forward-looking market return of 11.42% as described regarding my own CAPM study, produces a gas and electric return on equity in the range of 9.60% to 10.00% for the proxy groups.⁵³

IV.G. D'Ascendis' Empirical CAPM ("ECAPM")

Q PLEASE DESCRIBE MR. D'ASCENDIS' ECAPM ANALYSIS.

A Mr. D'Ascendis applies the same beta, market risk premium and risk-free rate for his ECAPM. He relies on empirical tests of the traditional CAPM model to modify to *correct* the original CAPM for some deficiencies inherent in the model. Empirical tests show that the expected return line, or security market line, predicted by the CAPM is not as steep as the model would have us believe. In other words, the traditional CAPM understates the expected return for securities with betas less than 1 and overstates the expected return for securities with betas greater than 1. In order to correct for this empirical finding, Mr. D'Ascendis modifies the traditional CAPM model as follows:

⁵³ $4.55\% + 0.73 \times (11.42\% - 4.55\%) = 9.57\%$, rounded to 9.60%,
 $4.55\% + 0.79 \times (11.42\% - 4.55\%) = 9.99\%$, rounded to 10.00%.

$$R_i = R_f + 0.75 \times B_i \times (R_m - R_f) + 0.25 \times B_m \times (R_m - R_f)$$

R_i = Required return for stock i
 R_f = Risk-free rate
 R_m = Expected return for the market portfolio
 B_m = Beta (measure of market volatility)
 B_i = Beta (measure of stock price volatility).

Q WHAT ISSUES DO YOU TAKE WITH MR. D'ASCENDIS' ECAPM ANALYSIS?

A The major issue I have with Mr. D'Ascendis' ECAPM analysis is his use of an adjusted beta as published by *Value Line*. The impact of Mr. D'Ascendis' ECAPM adjustment is to increase his average electric and gas beta estimates from 0.76 to 0.82.⁵⁴ The weighting adjustments applied in the ECAPM are mathematically the same as adjusting beta since the inputs are all multiplicative, as shown in the formula above.

In other words, Mr. D'Ascendis' adjustment to the betas is duplicative of the adjustments the ECAPM already makes to correct for any shortcomings of the traditional CAPM. As a result, his model produces overstated results.

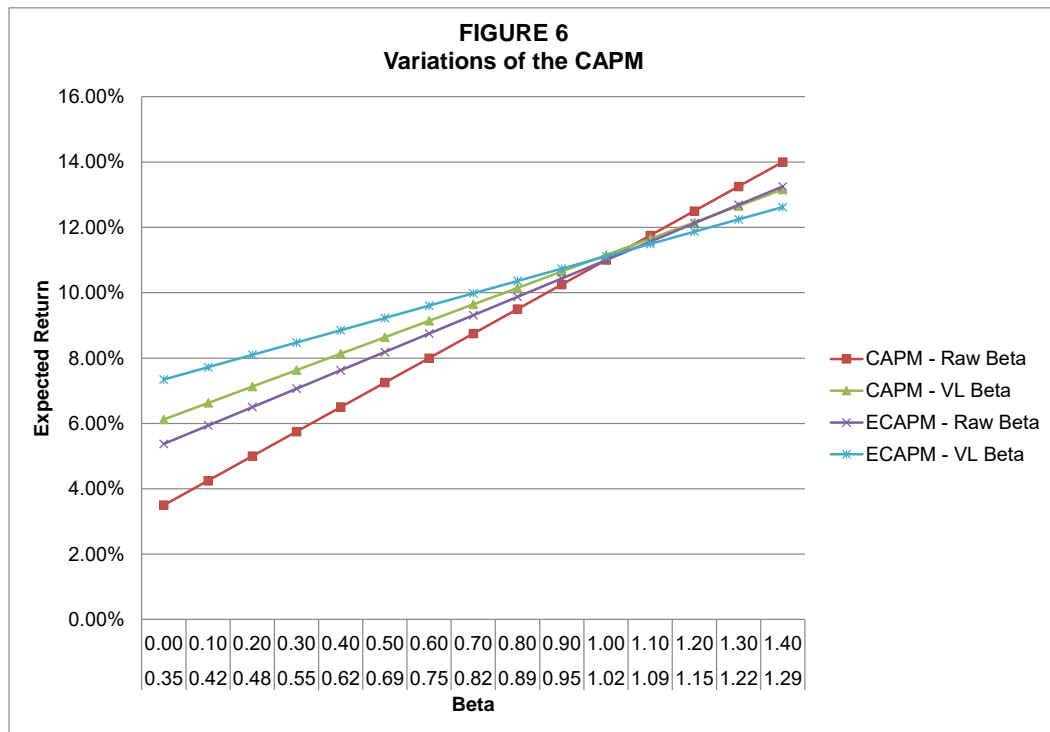
Further, Mr. D'Ascendis' reliance on an adjusted *Value Line* beta in his ECAPM study is inconsistent with the academic research that I am aware of supporting the development of the ECAPM.⁵⁵ The end result of using adjusted betas in the ECAPM is essentially an expected return line that has been flattened by two adjustments. In other words, the vertical intercept has been raised twice and the security market line has been

⁵⁴75% x 0.76 + 25% x 1 = 0.82.

⁵⁵See Black, Fischer, "Beta and Return," *The Journal of Portfolio Management*, Fall 1993, 8-18; and Black, Fischer, Michael C. Jensen and Myron Scholes, "The Capital Asset Pricing Model: Some Empirical Tests," 1972.

1 flattened twice: once through the adjustments *Value Line* made to the raw beta, and
2 again by weighting the risk-adjusted market risk premium, as Mr. D'Ascendis has done.
3 In addition to the many adjustments employed by Mr. D'Ascendis, he further increases
4 the intercept and flattens the security market line by using projected long-term Treasury
5 yields that are at odds with current market expectations and inconsistent with the Federal
6 Reserve's projections and monetary policy.

7 Mr. D'Ascendis goes over the theory of the ECAPM at pages 38-39 of his direct
8 testimony. The ECAPM with adjusted betas has the effect of increasing CAPM return
9 estimates for companies with betas less than 1 and decreasing the CAPM return
10 estimates for companies with betas greater than 1. I have modeled the expected return
11 line resulting from the application of the various forms of the CAPM/ECAPM below in
12 Figure 6.



1 Along the horizontal axis in Figure 6 above, I have provided the raw unadjusted
2 beta (top row) and the corresponding adjusted *Value Line* beta (bottom row). As shown
3 in Figure 6 above, the CAPM, using a *Value Line* beta compared to the CAPM using an
4 unadjusted beta, shows that the *Value Line* beta raises the intercept point and flattens
5 the slope of the security market line. As shown in the figure above, the two variations
6 with the most similar slope are the CAPM with the *Value Line* beta and the ECAPM
7 with a raw beta. This evidence shows that the ECAPM adjustment has a very similar
8 impact on the expected return line as a *Value Line* beta. Another observation that can
9 be made from the figure above is the magnifying effect that the ECAPM using a *Value*
10 *Line* beta has on raising the vertical intercept and flattening the slope relative to all other
11 variations. It is unreasonable to use an adjusted beta within an ECAPM because it
12 unjustifiably alters the security market line and materially inflates a CAPM return for a
13 company with a beta less than 1.

14 **Q IN YOUR EXPERIENCE, IS MR. D'ASCENDIS' PROPOSED USE OF AN**
15 **ADJUSTED BETA IN AN ECAPM STUDY CONSISTENT WITH WIDELY**
16 **ACCEPTED PRACTICES IN THE REGULATORY FIELD?**

17 **A** No. In my experience, regulatory commissions generally disregard the use of the
18 ECAPM, particularly when an adjusted beta is used in the model. For example, the
19 Illinois Commerce Commission ("ICC") has stated the following regarding the
20 ECAPM:

21 The Commission cannot recall a proceeding in which it relied upon the
22 ECAPM in establishing the cost of common equity for a utility. In the

1 instant proceeding, the record supports a finding that use of adjusted
2 betas in the ECAPM is inappropriate. As Staff witness Ms. Freely
3 explained, by using adjusted betas he already effectively transformed his
4 Traditional CAPM into an ECAPM. Therefore, including an additional
5 beta adjustment in the ECAPM model would result in inflated estimates
6 of the samples' cost of common equity.⁵⁶

7 Similarly, in a more recent Nicor Gas rate case the ICC stated:

8 The Company also used ECAPM analyses and bond yield plus risk
9 premium models to determine an ROE [Return on Equity], which the
10 Commission has also historically rejected.⁵⁷

11 The California Public Utilities Commission has even more recently noted:

12 PG&E's and PG&E's CAPM results are significantly higher than the
13 intervenors because these utilities use the Empirical CAPM model,
14 rather than the traditional CAPM. Notably, the Commission has
15 recognized that the ECAPM tends to produce inaccurately higher ROEs
16 and has declined to rely on ECAPM results in prior Cost of Capital
17 proceedings.⁵¹

18 We are not persuaded that ECAPM produces a result that should be
19 considered. Electric utilities in general have low betas. Adjusting betas
20 upward guarantees a higher ROE.⁵⁸

21 Therefore, the Commission should reject Mr. D'Ascendis' ECAPM, which as
22 described above is based on adjusted beta estimates.

⁵⁶Illinois Commerce Commission, Docket No. 11-0767, Illinois-American Water Company, Order at 109, September 19, 2012.

⁵⁷Illinois Commerce Commission, Docket No. 21-0098, Northern Illinois Gas Company d/b/a Nicor Gas Company, Final Order at 94, November 18, 2021.

⁵⁸ Public Utilities Commission of the State of California Application 22-04-008 et al., Decision Addressing Test Year 2023 Cost Of Capital For Pacific Gas And Electric Company, Southern California Edison, Southern California Gas Company, And San Diego Gas & Electric Company, December 19, 2022 at 23.

1 **IV.H. D’Ascendis’ Non-Regulated Company Analysis**

2 **Q PLEASE DESCRIBE MR. D’ASCENDIS’ NON-PRICE REGULATED**
3 **COMPANIES’ EARNED RETURN ON EQUITY METHODOLOGY.**

4 A Mr. D’Ascendis’ non-price regulated return on equity estimates are based on the results
5 from the same cost of equity studies described above, using a proxy group of 49
6 companies that have comparable risk to his gas group and another non-price regulated
7 group of 47 companies with comparable risk to his electric proxy group. The average
8 result of his mean and median market-based studies on his gas and electric non-price
9 regulated companies are 11.92% and 11.84%, respectively.⁵⁹

10 **Q ARE MR. D’ASCENDIS’ NON-PRICE REGULATED RISK PROXY GROUPS**
11 **REASONABLE TO ESTIMATE THE CURRENT RETURN ON EQUITY FOR**
12 **KU AND LGE?**

13 A No. Mr. D’Ascendis has not proven that these companies are risk-comparable to
14 KU/LGE. While these companies may have comparable beta estimates, he has not
15 shown that they face comparable business and operating risk. For example, Mr.
16 D’Ascendis’ non-price regulated proxy group includes companies that are not
17 comparable in business and operating risk to regulated utilities. To draw a valid
18 comparison between KU/LGE and any proxy group, it is necessary to show that these
19 companies have comparable risk factors that are commonly used by investment
20 professionals to compare investment risk between different investment alternatives.

⁵⁹ D’Ascendis Direct Testimony at 46.

1 Because he has not shown that these companies are indeed risk comparable to KU/LGE,
2 his estimated return on this proxy group is not reliable and should be disregarded.

3 Further, the RP and CAPM estimates on Mr. D'Ascendis' non-utility proxy
4 group were flawed and biased for the same reasons described above concerning his gas
5 and electric proxy groups. As such, his return on equity estimates based on his
6 non-utility proxy group do not reflect a reasonable risk proxy for KU/LGE and are based
7 on flawed applications of the market-based models. Therefore, the Commission should
8 reject the use of Mr. D'Ascendis' non-price regulated proxy group.

9 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

10 **A**Yes, it does.

**IN THE MATTER OF ELECTRONIC
APPLICATION OF KENTUCKY UTILITIES
COMPANY FOR AN ADJUSTMENT OF ITS
ELECTRIC RATES, AND APPROVAL OF
CERTAIN REGULATORY AND
ACCOUNTING TREATMENTS**

**IN THE MATTER OF ELECTRONIC
APPLICATION OF LOUISVILLE GAS AND
ELECTRIC COMPANY FOR AN
ADJUSTMENT OF ITS ELECTRIC AND
GAS RATES, AND APPROVAL OF
CERTAIN REGULATORY AND
ACCOUNTING TREATMENTS**

STATE OF MISSOURI)
)
COUNTY OF ST. LOUIS) SS

1. My name is Michael P. Gorman. I am a Managing Principal with Brubaker & Associates, Inc., 16690 Swingley Ridge Road, Suite 140, Chesterfield, MO 63017. We have been retained by the United States Department of Defense and all other Federal Executive Agencies to testify in this proceeding on their behalf.
2. Attached hereto and made a part hereof for all purposes are my Direct Testimony and Exhibits, which were prepared in written form for introduction into evidence in the Commonwealth of Kentucky before the Public Service Commission, Kentucky Utilities Co. and Louisville G&E Docket Nos. 2025-00113 & 2025-00114.
3. I hereby swear and affirm that the testimony and exhibits are true and correct to the best of my information, knowledge, and belief, and that they show the matters and things that they purport to show.

TAMMY S. KLOSSNER
Notary Public - Notary Seal
STATE OF MISSOURI
St. Charles County
My Commission Expires: Mar. 18, 2027
Commission # 15024862

Tammy D Klossner
Notary Public

Qualifications of Michael P. Gorman

Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A Michael P. Gorman. My business address is 16690 Swingley Ridge Road, Suite 140, Chesterfield, MO 63017.

Q PLEASE STATE YOUR OCCUPATION.

A I am a consultant in the field of public utility regulation and a Managing Principal with the firm of Brubaker & Associates, Inc. ("BAI"), energy, economic and regulatory consultants.

Q PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND WORK EXPERIENCE.

A In 1983 I received a Bachelor of Science Degree in Electrical Engineering from Southern Illinois University, and in 1986, I received a Master's Degree in Business Administration with a concentration in Finance from the University of Illinois at Springfield. I have also completed several graduate level economics courses.

In August of 1983, I accepted an analyst position with the Illinois Commerce Commission ("ICC"). In this position, I performed a variety of analyses for both formal and informal investigations before the ICC, including: marginal cost of energy, central dispatch, avoided cost of energy, annual system production costs, and working capital. In October of 1986, I was promoted to the position of Senior Analyst. In this position, I assumed the additional responsibilities of technical leader on projects, and my areas

1 of responsibility were expanded to include utility financial modeling and financial
2 analyses.

3 In 1987, I was promoted to Director of the Financial Analysis Department. In
4 this position, I was responsible for all financial analyses conducted by the Staff. Among
5 other things, I conducted analyses and sponsored testimony before the ICC on rate of
6 return, financial integrity, financial modeling and related issues. I also supervised the
7 development of all Staff analyses and testimony on these same issues. In addition, I
8 supervised the Staff's review and recommendations to the Commission concerning
9 utility plans to issue debt and equity securities.

10 In August of 1989, I accepted a position with Merrill-Lynch as a financial
11 consultant. After receiving all required securities licenses, I worked with individual
12 investors and small businesses in evaluating and selecting investments suitable to their
13 requirements.

14 In September of 1990, I accepted a position with Drazen-Brubaker & Associates,
15 Inc. ("DBA"). In April 1995, the firm of Brubaker & Associates, Inc. was formed. It
16 includes most of the former DBA principals and Staff. Since 1990, I have performed
17 various analyses and sponsored testimony on cost of capital, cost/benefits of utility
18 mergers and acquisitions, utility reorganizations, level of operating expenses and rate
19 base, cost of service studies, and analyses relating to industrial jobs and economic
20 development. I also participated in a study used to revise the financial policy for the
21 municipal utility in Kansas City, Kansas.

1 At BAI, I also have extensive experience working with large energy users to
2 distribute and critically evaluate responses to requests for proposals (“RFPs”) for
3 electric, steam, and gas energy supply from competitive energy suppliers. These
4 analyses include the evaluation of gas supply and delivery charges, cogeneration and/or
5 combined cycle unit feasibility studies, and the evaluation of third-party asset/supply
6 management agreements. I have participated in rate cases on rate design and class cost
7 of service for electric, natural gas, water and wastewater utilities. I have also analyzed
8 commodity pricing indices and forward pricing methods for third party supply
9 agreements and have also conducted regional electric market price forecasts.

10 In addition to our main office in St. Louis, the firm also has branch offices in
11 Corpus Christi, Texas; Louisville, Kentucky and Phoenix, Arizona.

12 **Q HAVE YOU EVER TESTIFIED BEFORE A REGULATORY BODY?**

13 A Yes. I have sponsored testimony on cost of capital, revenue requirements, cost of
14 service and other issues before the Federal Energy Regulatory Commission and
15 numerous state regulatory commissions including: Alaska, Arkansas, Arizona,
16 California, Colorado, Delaware, the District of Columbia, Florida, Georgia, Idaho,
17 Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts,
18 Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New
19 Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma,
20 Oregon, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia,
21 Washington, West Virginia, Wisconsin, Wyoming, and before the provincial regulatory

1 boards in Alberta, Nova Scotia, and Quebec, Canada. I have also sponsored testimony
2 before the Board of Public Utilities in Kansas City, Kansas; presented rate KU/LGE
3 position reports to the regulatory board of the municipal utility in Austin, Texas, and
4 Salt River Project, Arizona, on behalf of industrial customers; and negotiated rate
5 disputes for industrial customers of the Municipal Electric Authority of Georgia in the
6 LaGrange, Georgia district.

7 **Q PLEASE DESCRIBE ANY PROFESSIONAL REGISTRATIONS OR**
8 **ORGANIZATIONS TO WHICH YOU BELONG.**

9 A I earned the designation of Chartered Financial Analyst (“CFA”) from the CFA
10 Institute. The CFA charter was awarded after successfully completing three
11 examinations which covered the subject areas of financial accounting, economics, fixed
12 income and equity valuation and professional and ethical conduct. I am a member of
13 the CFA Institute’s Financial Analyst Society.

Kentucky Utilities Company / Louisville Gas & Electric Company

Rate of Return (December 31, 2026)

| Kentucky Utilities Company | | | | | |
|----------------------------|--------------------|-------------------------|----------------------|--------------------|-----------------------------|
| <u>Line</u> | <u>Description</u> | <u>Amount</u> (1) | <u>Weight</u> (2) | <u>Cost</u> (3) | <u>Weighted Cost</u> (4) |
| 1 | Short-Term Debt | \$ 157,536,900 | 2.55% | 4.46% | 0.11% |
| 2 | Long-Term Debt | \$ 2,759,039,499 | 44.60% | 4.93% | 2.20% |
| 3 | Common Equity | <u>\$ 3,270,164,828</u> | <u>52.86%</u> | 9.50% | <u>5.02%</u> |
| 4 | Total | \$ 6,186,741,227 | 100.01% | | 7.33% |

| Louisville Gas & Electric Company | | | | | |
|-----------------------------------|--------------------|-------------------------|----------------------|--------------------|-----------------------------|
| <u>Line</u> | <u>Description</u> | <u>Amount</u> (1) | <u>Weight</u> (2) | <u>Cost</u> (3) | <u>Weighted Cost</u> (4) |
| 1 | Short-Term Debt | \$ 88,225,863 | 1.71% | 4.46% | 0.08% |
| 2 | Long-Term Debt | \$ 2,333,327,528 | 45.36% | 4.95% | 2.25% |
| 3 | Common Equity | <u>\$ 2,722,898,938</u> | <u>52.93%</u> | 9.50% | <u>5.03%</u> |
| 4 | Total | \$ 5,144,452,329 | 100.00% | | 7.36% |

Source:
Schedule J-1.1/J-1.2.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| Line | Company | Price to Earnings (P/E) Ratio ¹ | | | | | | | | | | | | |
|------|--------------------------------|--|-------------------|-------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|-----------|
| | | 24-Year | | | | | | | 3-Year Averages | | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2020 | 2017-2019 | 2014-2016 | 2011-2013 | 2008-2010 | 2005-2007 | 2002-2004 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| 1 | ALLETE | 18.13 | 17.30 | 17.30 | 16.80 | 18.10 | 20.60 | 18.30 | 23.30 | 16.97 | 16.40 | 15.33 | 16.42 | 25.21 |
| 2 | Alliant Energy | 17.14 | 19.00 | 19.00 | 16.40 | 21.40 | 21.20 | 21.20 | 20.30 | 19.00 | 14.77 | 13.27 | 14.84 | 15.54 |
| 3 | Ameren Corp. | 16.97 | 19.50 | 19.50 | 15.50 | 21.50 | 21.40 | 22.20 | 20.33 | 17.50 | 13.93 | 11.07 | 17.83 | 15.19 |
| 4 | American Electric Power | 15.39 | 17.40 | 17.40 | 15.90 | 21.10 | 17.10 | 19.60 | 19.57 | 15.63 | 13.40 | 12.17 | 14.30 | 11.92 |
| 5 | Avangrid, Inc. | 23.69 | N/A | N/A | 16.30 | 19.60 | 23.20 | 23.60 | 25.50 | 27.00 | N/A | N/A | N/A | N/A |
| 6 | Avista Corp. | 18.14 | 16.20 | 16.20 | 14.60 | 20.00 | 20.20 | 21.20 | 20.97 | 17.90 | 16.00 | 13.03 | 21.91 | 19.18 |
| 7 | Black Hills | 17.29 | 13.90 | 13.90 | 14.20 | 18.10 | 17.70 | 17.00 | 19.17 | 19.13 | 22.13 | 14.00 | 16.01 | 15.20 |
| 8 | CenterPoint Energy | 17.31 | 22.10 | 22.10 | 20.40 | 18.70 | 26.10 | 15.90 | 24.80 | 19.00 | 16.03 | 12.30 | 14.77 | 9.83 |
| 9 | CMS Energy Corp. | 18.43 | 19.30 | 19.30 | 18.60 | 22.90 | 23.60 | 23.30 | 21.97 | 18.83 | 15.00 | 12.33 | 20.53 | 12.39 |
| 10 | Consol. Edison | 16.42 | 19.70 | 19.70 | 17.70 | 20.30 | 17.20 | 19.00 | 18.87 | 16.77 | 15.07 | 12.70 | 14.80 | 15.26 |
| 11 | Dominion Resources | 18.13 | 15.80 | 15.80 | 18.30 | 18.70 | 19.50 | 22.60 | 19.30 | 22.13 | 18.47 | 13.60 | 20.49 | 14.12 |
| 12 | DTE Energy | 16.90 | 18.90 | 18.90 | 16.90 | 22.40 | 30.00 | 16.30 | 18.63 | 17.33 | 15.43 | 12.50 | 16.51 | 13.67 |
| 13 | Duke Energy | 17.38 | 19.00 | 19.00 | 16.50 | 19.60 | 18.90 | 17.10 | 18.20 | 19.13 | 16.23 | 14.43 | 16.10 | N/A |
| 14 | Edison Int'l | 16.44 | 9.70 | 9.70 | 14.30 | 40.60 | 29.70 | 34.90 | 16.95 | 15.23 | 11.40 | 10.80 | 13.58 | 17.45 |
| 15 | El Paso Electric | 17.68 | N/A | N/A | N/A | N/A | N/A | N/A | 24.32 | 17.79 | 14.32 | 11.14 | 19.63 | 21.10 |
| 16 | Entergy Corp. | 15.26 | 24.40 | 24.40 | 20.60 | 21.10 | 15.00 | 15.30 | 15.10 | 12.10 | 11.17 | 13.40 | 16.62 | 13.46 |
| 17 | Eversource Energy | 17.78 | 12.40 | 12.40 | 13.10 | 20.90 | 22.20 | 23.70 | 20.10 | 18.23 | 17.40 | 13.03 | 21.84 | 16.73 |
| 18 | Evergy, Inc. | 18.69 | 16.20 | 16.20 | 14.80 | 19.90 | 16.20 | 21.70 | 22.25 | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 14.64 | 17.50 | 17.50 | 15.40 | 19.90 | 16.60 | 12.40 | 13.80 | 13.70 | 14.60 | 13.50 | 16.70 | 11.74 |
| 20 | FirstEnergy Corp. | 15.32 | 16.80 | 16.80 | 14.40 | 17.00 | 14.10 | 15.70 | 14.03 | 12.83 | 18.87 | 13.43 | 15.30 | 16.52 |
| 21 | Fortis Inc. | 19.28 | 19.50 | 19.50 | 17.00 | 21.10 | 21.20 | 20.60 | 17.70 | 21.30 | 19.63 | 17.37 | 19.39 | N/A |
| 22 | Great Plains Energy | 15.52 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 17.94 | 15.28 | 16.23 | 16.20 | 11.97 |
| 23 | Hawaiian Elec. | 17.09 | 11.20 | 11.20 | 6.00 | 18.50 | 18.20 | 21.50 | 20.30 | 16.63 | 16.37 | 20.53 | 19.30 | 15.47 |
| 24 | Hydro One Limited ³ | 19.31 | 25.20 | 25.20 | 20.50 | 19.60 | 18.70 | 9.20 | 19.25 | 18.10 | N/A | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 17.35 | 19.60 | 19.60 | 18.10 | 21.00 | 20.80 | 19.90 | 21.13 | 16.67 | 12.43 | 11.97 | 16.66 | 20.29 |
| 26 | MGE Energy | 20.48 | 24.70 | 24.70 | 21.10 | 24.70 | 25.50 | 26.40 | 27.63 | 20.80 | 16.67 | 14.77 | 17.76 | 17.16 |
| 27 | NextEra Energy, Inc. | 18.69 | 17.90 | 17.90 | 19.80 | 27.80 | 31.30 | 28.90 | 24.40 | 18.30 | 14.17 | 12.90 | 16.81 | 15.05 |
| 28 | NorthWestern Corp | 16.84 | 16.00 | 16.00 | 13.70 | 17.30 | 17.40 | 18.60 | 18.17 | 17.27 | 15.07 | 12.77 | 21.58 | N/A |
| 29 | OGE Energy | 15.70 | 19.20 | 19.20 | 17.00 | 17.20 | 14.30 | 16.20 | 17.93 | 17.90 | 15.77 | 12.17 | 14.14 | 13.36 |
| 30 | Otter Tail Corp. | 19.93 | 12.30 | 12.30 | 14.30 | 9.50 | 12.30 | 18.30 | 22.60 | 19.07 | 30.10 | 30.65 | 17.25 | 17.04 |
| 31 | Pinnacle West Capital | 16.12 | 18.70 | 18.70 | 15.80 | 17.10 | 14.10 | 16.70 | 18.83 | 16.87 | 14.73 | 14.13 | 15.94 | 14.73 |
| 32 | TXNM Energy | 18.24 | 17.80 | 17.80 | 14.20 | 17.40 | 19.90 | 19.60 | 20.67 | 19.93 | 15.20 | 16.05 | 22.85 | 14.94 |
| 33 | Portland General | 16.41 | 13.70 | 13.70 | 14.30 | 18.20 | 17.70 | 16.60 | 20.23 | 17.37 | 14.43 | 14.23 | 17.63 | N/A |
| 34 | PPL Corp. | 16.53 | 19.70 | 19.70 | 16.20 | 20.00 | 54.10 | 13.90 | 14.07 | 13.60 | 11.40 | 18.40 | 15.51 | 11.39 |
| 35 | Public Serv. Enterprise | 14.99 | 20.20 | 20.20 | 18.80 | 18.50 | 16.80 | 15.70 | 16.97 | 14.00 | 12.23 | 11.33 | 17.02 | 11.61 |
| 36 | SCANA Corp. | 13.96 | N/A | N/A | N/A | N/A | N/A | N/A | 14.46 | 15.05 | 14.30 | 12.41 | 14.94 | 12.93 |
| 37 | Sempra Energy | 15.33 | 13.00 | 13.00 | 15.00 | 16.80 | 15.40 | 17.50 | 22.40 | 22.00 | 15.47 | 11.50 | 12.43 | 8.60 |
| 38 | Southern Co. | 16.68 | 21.10 | 21.10 | 18.60 | 19.60 | 18.40 | 17.90 | 16.07 | 16.53 | 16.33 | 14.83 | 16.04 | 14.72 |
| 39 | Vectren Corp. | 17.05 | N/A | N/A | N/A | N/A | N/A | N/A | 23.54 | 19.03 | 17.17 | 14.93 | 16.45 | 15.51 |
| 40 | WEC Energy Group | 17.67 | 20.30 | 20.30 | 16.50 | 21.90 | 22.30 | 24.90 | 21.03 | 19.63 | 15.50 | 14.03 | 15.64 | 13.47 |
| 41 | Westar Energy | 15.58 | N/A | N/A | N/A | N/A | N/A | N/A | 23.40 | 18.47 | 14.08 | 14.96 | 13.69 | 14.08 |
| 42 | Xcel Energy Inc. | 17.89 | 18.10 | 18.10 | 15.30 | 22.20 | 22.50 | 23.90 | 20.47 | 16.80 | 14.67 | 13.50 | 15.62 | 22.02 |
| 43 | Average | 17.09 | 17.87 | 17.87 | 16.29 | 20.28 | 20.85 | 19.66 | 19.97 | 17.79 | 15.68 | 14.15 | 16.95 | 15.11 |
| 44 | Median | 16.31 | 18.40 | 18.40 | 16.30 | 19.90 | 19.50 | 19.00 | 20.23 | 17.90 | 15.20 | 13.43 | 16.45 | 14.94 |

Sources:

The current year P/E ratio is based on the forward P/E (price over expected earnings per share). All historical year P/E ratios are based on annual average share price over achieved earnings per share.

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| | | Market Price to Cash Flow (MP/CF) Ratio ¹ | | | | | | | | | | | | |
|------|--------------------------------|--|-------------------|-------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|-----------|
| Line | Company | 24-Year | | | | | | | 3-Year Averages | | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2020 | 2017-2019 | 2014-2016 | 2011-2013 | 2008-2010 | 2005-2007 | 2002-2004 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| 1 | ALLETE | 9.06 | 7.70 | 8.03 | 6.69 | 7.56 | 8.61 | 8.14 | 10.83 | 8.19 | 8.41 | 8.61 | 10.97 | 11.46 |
| 2 | Alliant Energy | 8.40 | 10.50 | 9.74 | 9.43 | 10.43 | 10.31 | 10.66 | 11.22 | 9.31 | 7.41 | 6.77 | 7.01 | 5.16 |
| 3 | Ameren Corp. | 7.47 | 8.52 | 7.76 | 8.05 | 9.54 | 9.03 | 9.63 | 8.59 | 7.09 | 5.70 | 4.94 | 8.28 | 7.65 |
| 4 | American Electric Power | 6.83 | 8.21 | 7.70 | 7.68 | 8.67 | 7.57 | 8.41 | 8.72 | 7.22 | 5.99 | 5.32 | 6.15 | 5.13 |
| 5 | Avangrid, Inc. | 9.53 | N/A | N/A | 7.12 | 8.69 | 11.19 | 9.39 | 9.83 | 9.93 | N/A | N/A | N/A | N/A |
| 6 | Avista Corp. | 6.91 | 6.18 | 6.34 | 6.73 | 9.39 | 8.03 | 7.80 | 8.94 | 7.23 | 6.50 | 4.99 | 6.49 | 6.28 |
| 7 | Black Hills | 7.89 | 7.55 | 7.58 | 7.76 | 8.92 | 8.84 | 8.56 | 9.56 | 8.73 | 7.30 | 7.22 | 7.37 | 6.50 |
| 8 | CenterPoint Energy | 5.79 | 8.74 | 7.75 | 7.75 | 8.01 | 7.95 | 5.94 | 7.48 | 5.99 | 5.70 | 4.35 | 4.60 | 2.83 |
| 9 | CMS Energy Corp. | 6.67 | 8.16 | 8.53 | 8.28 | 9.43 | 9.27 | 9.87 | 9.00 | 7.72 | 6.04 | 3.85 | 4.67 | 3.04 |
| 10 | Consol. Edison | 8.23 | 7.93 | 8.34 | 8.26 | 8.70 | 7.26 | 8.35 | 9.28 | 8.42 | 8.08 | 7.00 | 8.52 | 8.28 |
| 11 | Dominion Resources | 9.78 | 8.02 | 9.08 | 9.24 | 9.35 | 11.15 | 14.59 | 11.92 | 11.90 | 10.08 | 7.79 | 8.85 | 7.24 |
| 12 | DTE Energy | 6.86 | 8.05 | 7.72 | 7.27 | 7.96 | 10.62 | 7.85 | 9.09 | 7.86 | 5.92 | 4.39 | 5.49 | 5.61 |
| 13 | Duke Energy | 7.61 | 7.68 | 7.47 | 7.17 | 7.75 | 7.89 | 8.06 | 7.82 | 8.21 | 8.07 | 6.37 | 7.16 | N/A |
| 14 | Edison Int'l | 5.96 | 4.70 | 6.04 | 5.67 | 6.83 | 7.14 | 7.57 | 9.25 | 6.12 | 4.76 | 4.56 | 6.16 | 4.21 |
| 15 | El Paso Electric | 5.93 | N/A | N/A | N/A | N/A | N/A | N/A | 8.99 | 6.75 | 5.71 | 4.41 | 6.45 | 4.31 |
| 16 | Entergy Corp. | 5.97 | 9.27 | 7.85 | 4.62 | 7.15 | 5.61 | 5.78 | 5.21 | 4.11 | 4.06 | 6.10 | 8.38 | 6.51 |
| 17 | Eversource Energy | 7.55 | 6.41 | 6.51 | 10.39 | 9.39 | 11.41 | 12.53 | 10.33 | 10.13 | 8.12 | 4.57 | 5.25 | 3.13 |
| 18 | Evergy, Inc. | 7.40 | 7.61 | 6.57 | 6.74 | 8.66 | 7.41 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 6.08 | 6.60 | 6.06 | 6.41 | 7.69 | 5.08 | 4.44 | 4.93 | 4.86 | 5.34 | 6.91 | 8.82 | 5.66 |
| 20 | FirstEnergy Corp. | 6.95 | 7.66 | 7.47 | 7.90 | 8.93 | 6.60 | 9.23 | 8.23 | 5.98 | 6.97 | 5.66 | 7.15 | 5.72 |
| 21 | Fortis Inc. | 8.40 | 7.51 | 8.09 | 8.34 | 9.10 | 9.57 | 9.50 | 8.56 | 9.00 | 8.13 | 7.25 | 8.54 | N/A |
| 22 | Great Plains Energy | 6.89 | N/A | N/A | N/A | N/A | N/A | N/A | 14.62 | 7.25 | 5.85 | 5.75 | 7.17 | 5.86 |
| 23 | Hawaiian Elec. | 7.54 | 3.72 | 2.16 | 5.70 | 7.95 | 8.23 | 8.69 | 8.95 | 8.11 | 7.98 | 7.95 | 8.24 | 6.92 |
| 24 | Hydro One Limited ³ | 11.77 | 12.92 | 15.81 | 14.82 | 14.51 | 13.75 | 7.31 | 11.10 | 8.51 | N/A | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 9.13 | 10.79 | 10.78 | 11.04 | 12.42 | 11.84 | 11.38 | 12.01 | 9.64 | 7.16 | 6.31 | 7.83 | 7.31 |
| 26 | MGE Energy | 11.82 | 12.97 | 13.62 | 12.31 | 13.63 | N/A | 14.90 | 15.98 | 13.20 | 10.48 | 8.62 | 10.08 | 9.78 |
| 27 | NextEra Energy, Inc. | 9.34 | 10.53 | 11.24 | 10.89 | 15.17 | 20.40 | 15.48 | 11.57 | 8.38 | 7.05 | 6.26 | 7.42 | 6.15 |
| 28 | NorthWestern Corp | 7.86 | 7.55 | 7.33 | 8.01 | 8.65 | 8.83 | 8.88 | 8.98 | 8.88 | 6.78 | 5.47 | 8.39 | 8.13 |
| 29 | OGE Energy | 7.97 | 8.54 | 8.14 | 7.78 | 8.36 | 7.64 | 8.38 | 10.16 | 9.64 | 8.25 | 6.14 | 7.37 | 5.91 |
| 30 | Otter Tail Corp. | 9.24 | 8.93 | 8.91 | 8.02 | 7.70 | 8.61 | 9.99 | 11.70 | 9.29 | 9.02 | 9.24 | 8.79 | 8.49 |
| 31 | Pinnacle West Capital | 6.23 | 6.93 | 6.11 | 6.47 | 5.19 | 6.19 | 7.49 | 8.04 | 7.28 | 6.33 | 4.56 | 5.57 | 5.30 |
| 32 | TXNM Energy | 6.87 | 6.98 | 6.06 | 6.87 | 6.95 | 7.81 | 7.87 | 7.63 | 7.36 | 5.74 | 5.40 | 8.60 | 6.03 |
| 33 | Portland General | 5.96 | 5.28 | 5.90 | 6.56 | 6.65 | 6.48 | 6.72 | 7.22 | 6.45 | 5.33 | 4.52 | 5.54 | N/A |
| 34 | PPL Corp. | 7.99 | 9.18 | 9.95 | 7.83 | 8.82 | 13.74 | 7.46 | 8.37 | 8.14 | 6.14 | 8.48 | 8.02 | 5.73 |
| 35 | Public Serv. Enterprise | 8.27 | 11.84 | 11.78 | 9.68 | 10.53 | 11.32 | 8.22 | 8.96 | 7.24 | 6.28 | 6.90 | 8.95 | 6.73 |
| 36 | SCANA Corp. | 7.09 | N/A | N/A | N/A | N/A | N/A | N/A | 8.26 | 8.48 | 7.21 | 6.26 | 6.53 | 6.60 |
| 37 | Sempra Energy | 8.53 | 9.01 | 9.76 | 8.93 | 9.75 | 13.23 | 10.40 | 10.93 | 10.55 | 7.59 | 6.56 | 7.60 | 4.67 |
| 38 | Southern Co. | 8.42 | 10.24 | 9.59 | 8.64 | 9.63 | 8.72 | 8.34 | 7.78 | 8.49 | 8.42 | 7.68 | 8.50 | 8.13 |
| 39 | Vectren Corp. | 7.08 | N/A | N/A | N/A | N/A | N/A | N/A | 10.32 | 8.00 | 6.14 | 5.91 | 6.99 | 7.28 |
| 40 | WEC Energy Group | 9.28 | 10.00 | 9.53 | 10.12 | 11.81 | 11.99 | 13.67 | 11.58 | 11.37 | 9.08 | 7.53 | 7.17 | 5.15 |
| 41 | Westar Energy | 6.91 | N/A | N/A | N/A | N/A | N/A | N/A | 10.87 | 9.28 | 6.87 | 5.97 | 6.56 | 4.57 |
| 42 | Xcel Energy Inc. | 7.07 | 7.45 | 7.13 | 7.96 | 8.62 | 9.19 | 10.07 | 8.61 | 7.68 | 6.78 | 5.80 | 5.89 | 5.01 |
| 43 | Average | 7.73 | 8.33 | 8.29 | 8.19 | 9.15 | 9.40 | 9.21 | 9.55 | 8.24 | 6.99 | 6.22 | 7.37 | 6.18 |
| 44 | Median | 7.69 | 8.03 | 7.80 | 7.90 | 8.70 | 8.78 | 8.48 | 9.00 | 8.19 | 6.87 | 6.14 | 7.37 | 5.97 |

Sources:

The current year P/E ratio is based on the forward P/E (price over expected earnings per share). All historical year P/E ratios are based on annual average share price over achieved earnings per share.

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Note:

^a Based on the average of the high and low price and the projected Cash Flow per share.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)Market Price to Book Value (MP/BV) Ratio ¹

| Line | Company | 21-Year | | | | | | | 3-Year Averages | | | | |
|------|-------------------------|---------|-------------------|------|------|------|------|------|-----------------|-----------|-----------|-----------|-----------|
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2020 | 2017-2019 | 2014-2016 | 2011-2013 | 2008-2010 | 2005-2007 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |
| 1 | ALLETE | 1.52 | 1.24 | 1.19 | 1.19 | 1.24 | 1.43 | 1.39 | 1.83 | 1.44 | 1.40 | 1.33 | 2.07 |
| 2 | Alliant Energy | 1.84 | 2.13 | 2.03 | 1.92 | 2.25 | 2.26 | 2.30 | 2.29 | 1.96 | 1.58 | 1.23 | 1.51 |
| 3 | Ameren Corp. | 1.63 | 2.08 | 1.90 | 2.00 | 2.15 | 2.13 | 2.21 | 2.04 | 1.53 | 1.12 | 0.95 | 1.64 |
| 4 | American Electric Power | 1.66 | 1.91 | 1.78 | 1.73 | 1.99 | 1.87 | 2.09 | 1.97 | 1.64 | 1.31 | 1.27 | 1.66 |
| 5 | Avangrid, Inc. | 0.90 | N/A | N/A | 0.71 | 0.89 | 1.01 | 0.97 | 0.99 | 0.78 | N/A | N/A | N/A |
| 6 | Avista Corp. | 1.31 | 1.13 | 1.11 | 1.19 | 1.33 | 1.42 | 1.37 | 1.72 | 1.42 | 1.22 | 1.04 | 1.24 |
| 7 | Black Hills | 1.47 | 1.14 | 1.15 | 1.28 | 1.54 | 1.52 | 1.55 | 1.87 | 1.77 | 1.32 | 1.04 | 1.56 |
| 8 | CenterPoint Energy | 2.24 | 1.96 | 1.78 | 1.86 | 1.99 | 1.74 | 1.90 | 2.33 | 2.48 | 2.05 | 2.07 | 2.98 |
| 9 | CMS Energy Corp. | 2.21 | 2.55 | 2.38 | 2.33 | 2.71 | 2.69 | 3.24 | 3.01 | 2.47 | 1.88 | 1.27 | 1.52 |
| 10 | Consol. Edison | 1.43 | 1.52 | 1.53 | 1.48 | 1.55 | 1.34 | 1.44 | 1.57 | 1.45 | 1.41 | 1.15 | 1.49 |
| 11 | Dominion Resources | 2.46 | 1.67 | 1.71 | 1.68 | 2.34 | 2.37 | 2.72 | 2.51 | 3.35 | 2.73 | 2.08 | 2.42 |
| 12 | DTE Energy | 1.70 | 2.20 | 2.10 | 1.97 | 2.41 | 2.82 | 1.80 | 1.99 | 1.70 | 1.35 | 1.05 | 1.35 |
| 13 | Duke Energy | 1.33 | 1.76 | 1.67 | 1.49 | 1.63 | 1.58 | 1.47 | 1.40 | 1.31 | 1.14 | 0.99 | 1.15 |
| 14 | Edison Int'l | 1.72 | 1.68 | 2.10 | 1.86 | 2.08 | 1.67 | 1.62 | 1.98 | 1.78 | 1.45 | 1.22 | 1.93 |
| 15 | El Paso Electric | 1.56 | N/A | N/A | N/A | N/A | N/A | N/A | 1.91 | 1.56 | 1.57 | 1.16 | 1.72 |
| 16 | Entergy Corp. | 1.76 | 2.24 | 1.81 | 1.45 | 1.81 | 1.75 | 1.93 | 1.84 | 1.47 | 1.29 | 1.91 | 2.18 |
| 17 | Eversource Energy | 1.54 | 1.36 | 1.48 | 1.71 | 1.86 | 2.00 | 2.11 | 1.80 | 1.55 | 1.39 | 1.25 | 1.29 |
| 18 | Evergy, Inc. | 1.42 | 1.42 | 1.31 | 1.33 | 1.52 | 1.50 | N/A | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 2.02 | 1.56 | 1.39 | 1.52 | 1.88 | 1.37 | 1.20 | 1.31 | 1.21 | 1.53 | 3.01 | 4.09 |
| 20 | FirstEnergy Corp. | 2.04 | 1.82 | 1.86 | 2.08 | 2.37 | 2.33 | 2.81 | 3.20 | 1.56 | 1.35 | 1.81 | 1.93 |
| 21 | Fortis Inc. | 1.46 | 1.27 | 1.37 | 1.43 | 1.56 | 1.48 | 1.47 | 1.35 | 1.31 | 1.55 | 1.45 | 1.79 |
| 22 | Great Plains Energy | 1.21 | N/A | N/A | N/A | N/A | N/A | N/A | 1.33 | 1.13 | 0.97 | 0.93 | 1.77 |
| 23 | Hawaiian Elec. | 1.62 | 1.05 | 1.50 | 1.24 | 1.94 | 1.81 | 1.82 | 1.85 | 1.61 | 1.57 | 1.40 | 1.78 |
| 24 | Hydro One Limited3 | 1.62 | 2.01 | 2.12 | 1.89 | 1.83 | 1.64 | 1.44 | 1.41 | 1.34 | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 1.53 | 1.69 | 1.68 | 1.75 | 1.91 | 1.88 | 1.84 | 2.00 | 1.58 | 1.23 | 1.05 | 1.28 |
| 26 | MGE Energy | 2.19 | 2.50 | 2.54 | 2.35 | 2.47 | N/A | 2.54 | 2.78 | 2.26 | 1.91 | 1.60 | 1.89 |
| 27 | NextEra Energy, Inc. | 2.42 | 2.65 | 2.87 | 2.89 | 4.07 | 4.27 | 3.58 | 2.47 | 2.18 | 1.74 | 1.75 | 2.02 |
| 28 | NorthWestern Corp | 1.41 | 1.16 | 1.11 | 1.18 | 1.25 | 1.43 | 1.45 | 1.62 | 1.61 | 1.44 | 1.15 | 1.52 |
| 29 | OGE Energy | 1.81 | 1.82 | 1.67 | 1.62 | 1.74 | 1.67 | 1.86 | 1.88 | 1.92 | 2.03 | 1.53 | 1.90 |
| 30 | Otter Tail Corp. | 1.94 | 1.86 | 2.18 | 2.55 | 2.30 | 2.33 | 2.04 | 2.48 | 1.86 | 1.63 | 1.36 | 1.81 |
| 31 | Pinnacle West Capital | 1.43 | 1.53 | 1.42 | 1.42 | 1.31 | 1.45 | 1.63 | 1.85 | 1.56 | 1.37 | 1.03 | 1.25 |
| 32 | TXNM Energy | 1.39 | 1.76 | 1.49 | 1.75 | 1.81 | 1.86 | 1.87 | 1.98 | 1.36 | 0.96 | 0.64 | 1.30 |
| 33 | Portland General | 1.35 | 1.19 | 1.28 | 1.37 | 1.58 | 1.55 | 1.57 | 1.70 | 1.45 | 1.17 | 0.97 | 1.34 |
| 34 | PPL Corp. | 1.96 | 1.65 | 1.59 | 1.43 | 1.44 | 1.52 | 1.63 | 2.02 | 2.11 | 1.53 | 2.30 | 2.66 |
| 35 | Public Serv. Enterprise | 1.98 | 2.45 | 2.35 | 1.92 | 2.32 | 2.11 | 1.70 | 1.82 | 1.61 | 1.50 | 2.01 | 2.63 |
| 36 | SCANA Corp. | 1.51 | N/A | N/A | N/A | N/A | N/A | N/A | 1.65 | 1.56 | 1.44 | 1.32 | 1.66 |
| 37 | Sempra Energy | 1.78 | 1.58 | 1.74 | 1.65 | 1.84 | 1.64 | 1.84 | 2.17 | 2.12 | 1.55 | 1.42 | 1.77 |
| 38 | Southern Co. | 2.18 | 2.74 | 2.68 | 2.34 | 2.53 | 2.39 | 2.20 | 2.03 | 2.01 | 2.06 | 1.89 | 2.27 |
| 39 | Vectren Corp. | 1.83 | N/A | N/A | N/A | N/A | N/A | N/A | 2.75 | 2.16 | 1.64 | 1.46 | 1.77 |
| 40 | WEC Energy Group | 2.09 | 2.49 | 2.27 | 2.35 | 2.57 | 2.61 | 2.84 | 2.27 | 2.08 | 2.02 | 1.54 | 1.70 |
| 41 | Westar Energy | 1.37 | N/A | N/A | N/A | N/A | N/A | N/A | 1.94 | 1.63 | 1.27 | 1.04 | 1.35 |
| 42 | Xcel Energy Inc. | 1.74 | 1.89 | 1.77 | 2.00 | 2.22 | 2.27 | 2.46 | 2.12 | 1.70 | 1.47 | 1.27 | 1.44 |
| 43 | Average | 1.74 | 1.80 | 1.78 | 1.73 | 1.95 | 1.91 | 1.94 | 1.98 | 1.72 | 1.52 | 1.41 | 1.81 |
| 44 | Median | 1.71 | 1.76 | 1.73 | 1.71 | 1.88 | 1.74 | 1.84 | 1.94 | 1.61 | 1.45 | 1.27 | 1.72 |

Sources:

The current year P/E ratio is based on the forward P/E (price over expected earnings per share). All historical year P/E ratios are based on annual average share price over achieved earnings per share.

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Notes:

^b Based on the average of the high and low price and the projected Book Value per share.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| Line | Company | Dividend Yield ¹ | | | | | | | | | | |
|------|-------------------------|-----------------------------|---------------------|--------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 4.07% | 4.52% | 4.63% | 4.67% | 4.47% | 3.88% | 3.29% | 3.50% | 4.10% | 5.13% | 3.71% |
| 2 | Alliant Energy | 3.59% | 3.32% | 3.46% | 3.57% | 3.04% | 2.97% | 2.99% | 3.29% | 3.78% | 4.87% | 3.52% |
| 3 | Ameren Corp. | 4.02% | 2.99% | 3.29% | 3.13% | 2.74% | 2.74% | 2.74% | 3.53% | 4.53% | 5.67% | 5.34% |
| 4 | American Electric Power | 3.96% | 3.79% | 3.96% | 4.02% | 3.41% | 3.61% | 3.33% | 3.58% | 4.21% | 5.12% | 3.89% |
| 5 | Avangrid, Inc. | 3.89% | N/A | N/A | 4.87% | 3.94% | 3.53% | 3.57% | 4.03% | N/A | N/A | N/A |
| 6 | Avista Corp. | 3.99% | 5.13% | 5.29% | 4.85% | 4.26% | 3.94% | 3.48% | 3.50% | 4.35% | 4.60% | 2.86% |
| 7 | Black Hills | 3.81% | 4.62% | 4.53% | 4.15% | 3.44% | 3.50% | 3.16% | 3.05% | 3.47% | 5.20% | 3.80% |
| 8 | CenterPoint Energy | 4.00% | 2.55% | 2.77% | 2.71% | 2.46% | 2.77% | 3.82% | 4.85% | 3.85% | 5.31% | 4.42% |
| 9 | CMS Energy Corp. | 3.19% | 3.09% | 3.23% | 3.37% | 2.92% | 2.92% | 2.77% | 3.07% | 3.84% | 4.07% | 1.93% |
| 10 | Consol. Edison | 4.20% | 3.36% | 3.43% | 3.57% | 3.51% | 4.10% | 3.66% | 3.71% | 4.23% | 5.20% | 5.18% |
| 11 | Dominion Resources | 4.16% | 5.04% | 5.06% | 5.18% | 3.66% | 3.38% | 4.60% | 3.78% | 3.76% | 4.58% | 3.56% |
| 12 | DTE Energy | 3.93% | 3.44% | 3.55% | 3.67% | 3.17% | 3.06% | 3.33% | 3.34% | 3.86% | 5.24% | 4.82% |
| 13 | Duke Energy | 4.52% | 3.66% | 3.92% | 4.28% | 3.98% | 4.02% | 4.35% | 4.25% | 4.46% | 5.72% | 4.80% |
| 14 | Edison Int'l | 3.50% | 5.17% | 4.17% | 4.47% | 4.45% | 4.39% | 3.95% | 2.84% | 2.82% | 3.66% | 2.49% |
| 15 | El Paso Electric | 2.74% | N/A | N/A | N/A | N/A | N/A | 2.55% | 2.79% | 2.98% | 2.11% | N/A |
| 16 | Entergy Corp. | 3.96% | 2.98% | 3.62% | 4.36% | 3.70% | 3.84% | 3.83% | 4.54% | 4.81% | 4.34% | 2.71% |
| 17 | Eversource Energy | 3.43% | 5.16% | 4.72% | 3.89% | 3.09% | 2.85% | 2.92% | 3.23% | 3.47% | 3.67% | 3.04% |
| 18 | Evergy, Inc. | 4.08% | 4.17% | 4.58% | 4.42% | 3.66% | 3.59% | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 3.77% | 3.80% | 4.08% | 3.67% | 2.89% | 3.17% | 3.40% | 3.71% | 4.70% | 4.72% | 2.70% |
| 20 | FirstEnergy Corp. | 4.31% | 4.38% | 4.23% | 4.24% | 3.71% | 4.39% | 4.28% | 4.39% | 4.47% | 5.36% | 3.24% |
| 21 | Fortis Inc. | 3.77% | 4.51% | 4.16% | 4.09% | 3.82% | 3.77% | 3.78% | 3.75% | 3.79% | 3.86% | 3.19% |
| 22 | Great Plains Energy | 4.52% | N/A | N/A | N/A | N/A | N/A | N/A | 3.66% | 3.84% | 4.55% | 6.02% |
| 23 | Hawaiian Elec. | 4.40% | N/A | N/A | 4.09% | 3.59% | 3.44% | 3.32% | 3.90% | 4.73% | 5.81% | 4.92% |
| 24 | Hydro One Limited | 2.78% | 2.42% | 2.11% | 2.34% | 2.50% | 2.53% | 3.22% | 2.99% | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 3.16% | 3.12% | 3.24% | 3.18% | 2.86% | 2.89% | 2.67% | 2.80% | 3.20% | 3.66% | 3.63% |
| 26 | MGE Energy | 2.91% | 2.05% | 2.06% | 2.25% | 2.15% | N/A | 2.07% | 2.32% | 2.98% | 3.99% | 4.21% |
| 27 | NextEra Energy, Inc. | 2.92% | 3.29% | 2.94% | 2.80% | 2.11% | 1.90% | 2.40% | 2.90% | 3.32% | 3.93% | N/A |
| 28 | NorthWestern Corp | 4.21% | 4.79% | 5.01% | 4.78% | 4.51% | 4.00% | 3.72% | 3.52% | 3.71% | 5.06% | 4.37% |
| 29 | OGE Energy | 3.87% | 3.96% | 4.39% | 4.63% | 4.30% | 4.81% | 4.06% | 3.66% | 2.68% | 3.90% | 4.10% |
| 30 | Otter Tail Corp. | 3.70% | 2.67% | 2.15% | 2.33% | 2.44% | 2.81% | 3.04% | 3.77% | 4.49% | 5.54% | 3.67% |
| 31 | Pinnacle West Capital | 4.48% | 4.06% | 4.42% | 4.51% | 4.90% | 4.44% | 3.60% | 3.50% | 4.46% | 5.67% | 5.19% |
| 32 | TXNM Energy | 3.19% | 3.26% | 3.70% | 3.27% | 3.04% | 2.09% | 2.68% | 2.71% | 2.91% | 4.01% | 3.81% |
| 33 | Portland General | 3.79% | 4.86% | 4.45% | 4.20% | 3.63% | 3.62% | 3.19% | 3.08% | 3.71% | 4.98% | 3.39% |
| 34 | PPL Corp. | 4.36% | 3.21% | 3.40% | 3.53% | 3.23% | 5.83% | 5.56% | 4.35% | 4.78% | 4.91% | 3.06% |
| 35 | Public Serv. Enterprise | 3.68% | 3.04% | 3.16% | 3.83% | 3.37% | 3.37% | 3.44% | 3.78% | 4.28% | 4.28% | 3.15% |
| 36 | SCANA Corp. | 4.37% | N/A | N/A | N/A | N/A | N/A | N/A | 3.74% | 4.15% | 5.13% | 4.48% |
| 37 | Sempra Energy | 3.03% | 3.46% | 3.06% | 3.27% | 2.99% | 3.39% | 3.11% | 2.85% | 3.12% | 3.32% | 2.39% |
| 38 | Southern Co. | 4.47% | 3.40% | 3.57% | 4.13% | 3.82% | 4.17% | 4.68% | 4.61% | 4.53% | 5.10% | 4.49% |
| 39 | Vectren Corp. | 4.38% | N/A | N/A | N/A | N/A | N/A | N/A | 3.23% | 4.20% | 5.48% | 4.61% |
| 40 | WEC Energy Group | 3.11% | 3.52% | 3.75% | 3.57% | 3.08% | 3.00% | 2.96% | 3.38% | 3.38% | 3.16% | 2.24% |
| 41 | Westar Energy | 4.37% | N/A | N/A | N/A | N/A | N/A | N/A | 3.21% | 4.24% | 5.48% | 4.55% |
| 42 | Xcel Energy Inc. | 3.67% | 3.36% | 3.64% | 3.28% | 2.90% | 2.81% | 2.86% | 3.37% | 3.86% | 4.63% | 4.39% |
| 43 | Average | 3.82% | 3.72% | 3.76% | 3.82% | 3.40% | 3.49% | 3.42% | 3.51% | 3.90% | 4.64% | 3.83% |
| 44 | Median | 3.67% | 3.46% | 3.70% | 3.89% | 3.41% | 3.47% | 3.33% | 3.50% | 3.86% | 4.87% | 3.80% |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.³ St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.⁴ Mergent Bond Record, through June 30, 2025.

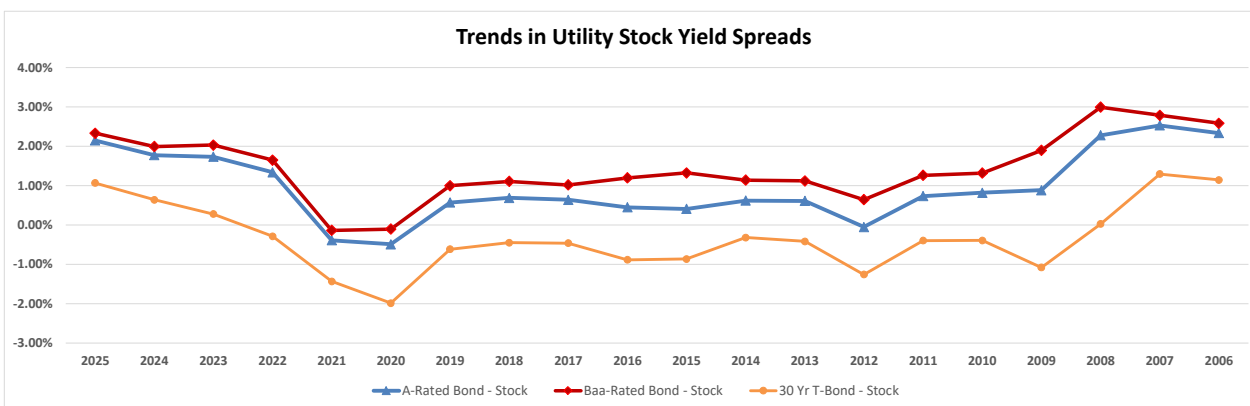
Notes:

^a Based on the average of the high and low price and the projected Dividends Declared per share, published in the Value Line Investment Survey.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities (Valuation Metrics)

| Line | Company | Dividend Yield ¹ | | | | | | | | | | |
|---|--------------------------------------|-----------------------------|--------------------|-------|-------|--------|--------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year Average | 2025 ^{2a} | 2024 | 2023 | 2022 | 2021 | 3-Year Averages | | | | |
| | | (1) | (2) | (3) | (4) | (5) | (6) | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| 1 | Average | 3.82% | 3.72% | 3.76% | 3.82% | 3.40% | 3.49% | 3.42% | 3.51% | 3.90% | 4.64% | 3.83% |
| 2 | Median | 3.67% | 3.46% | 3.70% | 3.89% | 3.41% | 3.47% | 3.33% | 3.50% | 3.86% | 4.87% | 3.80% |
| 3 | 30-Yr Treasury Yields | 3.50% | 4.79% | 4.41% | 4.09% | 3.11% | 2.06% | 2.42% | 2.78% | 3.24% | 4.08% | 4.67% |
| 4 | 20-Yr Treasury Yields ³ | 3.39% | 4.81% | 4.50% | 4.25% | 3.30% | 1.98% | 2.26% | 2.47% | 2.91% | 3.92% | 4.75% |
| 5 | 20-Yr TIPS ³ | 1.18% | 2.36% | 2.06% | 1.73% | 0.64% | -0.43% | 0.41% | 0.73% | 0.61% | 1.71% | 2.28% |
| 6 | Implied Inflation ^b | 2.18% | 2.39% | 2.39% | 2.48% | 2.64% | 2.42% | 1.84% | 1.73% | 2.29% | 2.17% | 2.42% |
| 7 | Real Dividend Yield ^c | 1.60% | 1.30% | 1.34% | 1.30% | 0.74% | 1.04% | 1.55% | 1.75% | 1.57% | 2.42% | 1.38% |
| A-Rated Utility | | | | | | | | | | | | |
| 8 | Nominal "A" Rated Yield ^d | 4.80% | 5.87% | 5.54% | 5.55% | 4.74% | 3.10% | 3.69% | 4.01% | 4.29% | 5.51% | 6.22% |
| 9 | Real "A" Rated Yield | 2.56% | 3.40% | 3.08% | 2.99% | 2.05% | 0.67% | 1.82% | 2.24% | 1.96% | 3.27% | 3.72% |
| Baa-Rated Utility | | | | | | | | | | | | |
| 10 | Nominal "Baa" Rated Yield | 5.28% | 6.05% | 5.76% | 5.85% | 5.05% | 3.36% | 4.10% | 4.69% | 4.87% | 6.20% | 6.63% |
| 11 | Real "Baa" Rated Yield | 3.03% | 3.57% | 3.29% | 3.29% | 2.35% | 0.91% | 2.22% | 2.91% | 2.52% | 3.94% | 4.11% |
| Spreads (A-Rated Utility Bond - Stock) | | | | | | | | | | | | |
| 12 | Nominal Spread ^d | 0.98% | 2.15% | 1.78% | 1.73% | 1.34% | -0.38% | 0.27% | 0.50% | 0.40% | 0.87% | 2.39% |
| 13 | Real Spread ^e | 0.96% | 2.10% | 1.73% | 1.69% | 1.31% | -0.38% | 0.27% | 0.49% | 0.39% | 0.85% | 2.33% |
| Spreads (Baa-Rated Utility Bond - Stock) | | | | | | | | | | | | |
| 14 | Nominal Spread ^b | 1.46% | 2.33% | 2.00% | 2.03% | 1.65% | -0.13% | 0.68% | 1.18% | 0.97% | 1.55% | 2.80% |
| 15 | Real Spread ^c | 1.43% | 2.28% | 1.95% | 1.98% | 1.61% | -0.13% | 0.67% | 1.16% | 0.95% | 1.52% | 2.73% |
| Spreads (20-Yr Treasury Bond - Stock) | | | | | | | | | | | | |
| 16 | Nominal ^f | -0.43% | 1.09% | 0.74% | 0.44% | -0.10% | -1.51% | -1.16% | -1.04% | -0.99% | -0.72% | 0.92% |
| 17 | Real ^g | -0.42% | 1.06% | 0.72% | 0.43% | -0.10% | -1.47% | -1.14% | -1.02% | -0.96% | -0.71% | 0.90% |
| Spreads (30-Yr Treasury Bond - Stock) | | | | | | | | | | | | |
| 18 | Nominal ^h | -0.32% | 1.07% | 0.64% | 0.28% | -0.29% | -1.43% | -1.00% | -0.74% | -0.66% | -0.56% | 0.83% |



Sources:

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Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

³ St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.

⁴ Mergent Bond Record, through June 30, 2025.

Notes:

^a Based on the average of the high and low price and the projected Dividends Declared per share, published in the Value Line Investment Survey.

^b Line 6 = (1 + Line 4) / (1 + Line 5) - 1.

^c Line 7 = (1 + Line 1) / (1 + Line 6) - 1.

^d The spread being measured here is the nominal A-rated utility bond yield over the average nominal utility dividend yield; (Line 8 - Line 1).

^e The spread being measured here is the real A-rated utility bond yield over the average real utility dividend yield; (Line 9 - Line 7)

^f The spread being measured here is the nominal 20-Year Treasury yield over the average nominal utility dividend yield; (Line 4 - Line 1).

^g The spread being measured here is the real 20-Year TIPS yield over the average real utility dividend yield; (Line 7 - Line 5)

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| | | Dividend per Share ¹ | | | | | | | | | | |
|------|-------------------------|---------------------------------|-------------------|-------|-------|-------|-------|-----------|-----------|-----------|-----------|-----------|
| Line | Company | 20-Year | 3-Year Averages | | | | | | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 2.14 | 2.94 | 2.82 | 2.71 | 2.60 | 2.52 | 2.35 | 2.08 | 1.90 | 1.77 | 1.60 |
| 2 | Alliant Energy | 1.20 | 2.04 | 1.92 | 1.81 | 1.71 | 1.61 | 1.43 | 1.18 | 0.95 | 0.80 | 0.64 |
| 3 | Ameren Corp. | 2.03 | 2.85 | 2.68 | 2.52 | 2.36 | 2.20 | 1.92 | 1.72 | 1.60 | 1.55 | 2.54 |
| 4 | American Electric Power | 2.38 | 3.80 | 3.57 | 3.37 | 3.17 | 3.00 | 2.69 | 2.27 | 1.95 | 1.73 | 1.57 |
| 5 | Avangrid, Inc. | 1.75 | N/A | N/A | 1.76 | 1.76 | 1.76 | 1.75 | 1.73 | N/A | N/A | N/A |
| 6 | Avista Corp. | 1.32 | 2.00 | 1.90 | 1.84 | 1.76 | 1.69 | 1.55 | 1.37 | 1.22 | 0.97 | 0.62 |
| 7 | Black Hills | 1.84 | 2.70 | 2.60 | 2.50 | 2.41 | 2.29 | 2.05 | 1.70 | 1.52 | 1.44 | 1.36 |
| 8 | CenterPoint Energy | 0.85 | 0.89 | 0.81 | 0.77 | 0.72 | 0.66 | 0.96 | 1.12 | 0.86 | 0.78 | 0.67 |
| 9 | CMS Energy Corp. | 1.25 | 2.17 | 2.06 | 1.95 | 1.84 | 1.74 | 1.53 | 1.24 | 1.02 | 0.67 | 0.28 |
| 10 | Consol. Edison | 2.73 | 3.40 | 3.32 | 3.24 | 3.16 | 3.10 | 2.96 | 2.68 | 2.47 | 2.38 | 2.32 |
| 11 | Dominion Resources | 2.44 | 2.67 | 2.67 | 2.67 | 2.67 | 2.52 | 3.49 | 2.81 | 2.25 | 1.85 | 1.47 |
| 12 | DTE Energy | 3.07 | 4.41 | 4.15 | 3.88 | 3.54 | 3.88 | 3.85 | 3.09 | 2.57 | 2.21 | 2.11 |
| 13 | Duke Energy | 3.41 | 4.22 | 4.14 | 4.06 | 3.98 | 3.90 | 3.74 | 3.36 | 3.09 | 2.90 | 2.64 |
| 14 | Edison Int'l | 2.00 | 3.36 | 3.17 | 2.99 | 2.84 | 2.69 | 2.49 | 1.98 | 1.39 | 1.27 | 1.17 |
| 15 | El Paso Electric | 1.11 | N/A | N/A | N/A | N/A | N/A | 1.42 | 1.24 | 1.04 | 0.66 | N/A |
| 16 | Entergy Corp. | 1.76 | 2.43 | 2.30 | 2.17 | 2.05 | 1.93 | 1.83 | 1.71 | 1.66 | 1.59 | 1.29 |
| 17 | Eversource Energy | 1.75 | 3.01 | 2.86 | 2.70 | 2.55 | 2.41 | 2.14 | 1.78 | 1.45 | 1.03 | 0.78 |
| 18 | Evergy, Inc. | 2.46 | 2.71 | 2.60 | 2.48 | 2.33 | 2.18 | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 1.61 | 1.62 | 1.52 | 1.44 | 1.35 | 1.53 | 1.45 | 1.27 | 1.60 | 2.10 | 1.84 |
| 20 | FirstEnergy Corp. | 1.77 | 1.78 | 1.70 | 1.60 | 1.56 | 1.56 | 1.64 | 1.44 | 1.76 | 2.20 | 2.03 |
| 21 | Fortis Inc. | 1.56 | 2.49 | 2.39 | 2.29 | 2.17 | 2.08 | 1.86 | 1.54 | 1.25 | 1.11 | 0.83 |
| 22 | Great Plains Energy | 1.11 | N/A | N/A | N/A | N/A | N/A | N/A | 1.05 | 0.89 | 0.83 | 1.66 |
| 23 | Hawaiian Elec. | 1.25 | N/A | N/A | 1.08 | 1.40 | 1.36 | 1.28 | 1.24 | 1.24 | 1.24 | 1.24 |
| 24 | Hydro One Limited | 0.79 | 1.00 | 0.90 | 0.86 | 0.86 | 0.75 | 0.74 | 0.69 | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 2.09 | 3.52 | 3.35 | 3.20 | 3.04 | 2.88 | 2.56 | 2.08 | 1.57 | 1.20 | 1.20 |
| 26 | MGE Energy | 1.25 | 1.85 | 1.76 | 1.67 | 1.59 | N/A | 1.38 | 1.21 | 1.07 | 0.99 | 0.94 |
| 27 | NextEra Energy, Inc. | 1.03 | 2.27 | 2.06 | 1.87 | 1.70 | 1.54 | 1.25 | 0.87 | 0.66 | 0.51 | 0.41 |
| 28 | NorthWestern Corp | 1.92 | 2.64 | 2.60 | 2.56 | 2.52 | 2.48 | 2.30 | 2.01 | 1.53 | 1.38 | 1.28 |
| 29 | OGE Energy | 1.16 | 1.71 | 1.68 | 1.66 | 1.64 | 1.63 | 1.49 | 1.16 | 0.87 | 0.74 | 0.68 |
| 30 | Otter Tail Corp. | 1.38 | 2.10 | 1.87 | 1.75 | 1.65 | 1.56 | 1.41 | 1.25 | 1.20 | 1.19 | 1.17 |
| 31 | Pinnacle West Capital | 2.70 | 3.61 | 3.55 | 3.49 | 3.42 | 3.36 | 3.05 | 2.57 | 2.41 | 2.10 | 2.08 |
| 32 | TXNM Energy | 0.96 | 1.65 | 1.57 | 1.49 | 1.41 | 0.98 | 1.17 | 0.89 | 0.67 | 0.50 | 0.79 |
| 33 | Portland General | 1.34 | 2.09 | 1.98 | 1.88 | 1.79 | 1.70 | 1.51 | 1.26 | 1.10 | 1.03 | 0.86 |
| 34 | PPL Corp. | 1.37 | 1.09 | 1.03 | 0.95 | 0.88 | 1.66 | 1.65 | 1.53 | 1.47 | 1.39 | 1.22 |
| 35 | Public Serv. Enterprise | 1.70 | 2.52 | 2.40 | 2.28 | 2.16 | 2.04 | 1.88 | 1.64 | 1.45 | 1.36 | 1.20 |
| 36 | SCANA Corp. | 2.00 | N/A | N/A | N/A | N/A | N/A | N/A | 2.31 | 2.04 | 1.91 | 1.76 |
| 37 | Sempra Energy | 2.68 | 2.60 | 2.48 | 2.38 | 4.58 | 4.40 | 3.88 | 3.04 | 2.52 | 1.68 | 1.27 |
| 38 | Southern Co. | 2.21 | 2.96 | 2.86 | 2.78 | 2.70 | 2.62 | 2.46 | 2.23 | 2.01 | 1.80 | 1.60 |
| 39 | Vectren Corp. | 1.42 | N/A | N/A | N/A | N/A | N/A | N/A | 1.62 | 1.43 | 1.37 | 1.27 |
| 40 | WEC Energy Group | 1.84 | 3.57 | 3.34 | 3.12 | 2.91 | 2.71 | 2.37 | 1.93 | 1.40 | 0.84 | 0.50 |
| 41 | Westar Energy | 1.30 | N/A | N/A | N/A | N/A | N/A | N/A | 1.52 | 1.36 | 1.24 | 1.07 |
| 42 | Xcel Energy Inc. | 1.42 | 2.28 | 2.19 | 2.08 | 1.95 | 1.83 | 1.62 | 1.36 | 1.13 | 1.00 | 0.91 |
| 43 | Average | 1.78 | 2.54 | 2.42 | 2.27 | 2.24 | 2.19 | 2.03 | 1.73 | 1.53 | 1.37 | 1.29 |
| 44 | Industry Average Growth | 4.00% | 4.89% | 6.91% | 1.35% | 2.21% | 2.43% | 5.38% | 5.18% | 3.52% | 1.68% | 5.43% |

Sources:

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² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| | | Earnings per Share ¹ | | | | | | | | | | |
|------|-------------------------|---------------------------------|-------------------|--------|-------|--------|-------|-----------------|-----------|-----------|-----------|-----------|
| Line | Company | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 3.05 | 3.75 | 3.10 | 4.30 | 3.38 | 3.23 | 3.35 | 3.22 | 2.70 | 2.24 | 2.89 |
| 2 | Alliant Energy | 1.93 | 3.25 | 2.69 | 2.78 | 2.73 | 2.63 | 2.33 | 1.78 | 1.64 | 1.23 | 1.22 |
| 3 | Ameren Corp. | 3.17 | 4.95 | 4.59 | 4.37 | 4.14 | 3.84 | 3.39 | 2.61 | 2.30 | 2.67 | 2.84 |
| 4 | American Electric Power | 3.88 | 5.90 | 5.61 | 5.24 | 5.09 | 4.96 | 4.13 | 3.81 | 3.17 | 2.90 | 2.90 |
| 5 | Avangrid, Inc. | 1.88 | N/A | N/A | 2.09 | 2.32 | 1.97 | 2.02 | 1.50 | N/A | N/A | N/A |
| 6 | Avista Corp. | 1.89 | 2.60 | 2.29 | 2.24 | 2.12 | 2.10 | 2.31 | 2.00 | 1.67 | 1.65 | 1.18 |
| 7 | Black Hills | 2.84 | 4.10 | 3.91 | 3.91 | 3.97 | 3.74 | 3.58 | 2.95 | 2.49 | 1.66 | 1.69 |
| 8 | CenterPoint Energy | 1.28 | 1.70 | 1.58 | 1.37 | 1.59 | 0.94 | 1.17 | 1.22 | 1.34 | 1.12 | 1.27 |
| 9 | CMS Energy Corp. | 2.00 | 3.60 | 3.33 | 3.01 | 2.84 | 2.58 | 2.45 | 2.01 | 1.64 | 1.24 | 0.84 |
| 10 | Consol. Edison | 4.07 | 5.65 | 5.38 | 5.04 | 4.55 | 4.74 | 4.19 | 4.03 | 3.80 | 3.39 | 3.26 |
| 11 | Dominion Resources | 2.88 | 3.40 | 2.77 | 1.99 | 4.11 | 3.19 | 2.42 | 3.39 | 2.96 | 2.76 | 2.52 |
| 12 | DTE Energy | 4.81 | 7.20 | 6.77 | 6.76 | 5.52 | 4.10 | 6.52 | 5.00 | 4.25 | 3.55 | 2.61 |
| 13 | Duke Energy | 4.29 | 6.35 | 5.90 | 5.56 | 5.27 | 4.93 | 4.37 | 4.01 | 3.94 | 3.85 | 3.12 |
| 14 | Edison Int'l | 3.44 | 5.75 | 4.91 | 4.76 | 1.60 | 2.00 | 1.48 | 4.20 | 4.22 | 3.27 | 3.43 |
| 15 | El Paso Electric | 2.02 | N/A | N/A | N/A | N/A | N/A | 2.07 | 2.28 | 2.24 | 2.02 | 1.54 |
| 16 | Entergy Corp. | 3.16 | 3.35 | 2.45 | 5.55 | 2.69 | 3.44 | 3.18 | 2.98 | 2.79 | 3.42 | 2.86 |
| 17 | Eversource Energy | 2.89 | 4.75 | 4.57 | 4.34 | 4.09 | 3.54 | 3.42 | 2.94 | 2.32 | 2.08 | 1.42 |
| 18 | Evergy, Inc. | 3.62 | 4.05 | 3.80 | 3.17 | 3.26 | 3.83 | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 2.81 | 2.65 | 2.45 | 2.38 | 2.26 | 1.74 | 2.56 | 2.37 | 2.11 | 3.97 | 3.88 |
| 20 | FirstEnergy Corp. | 2.58 | 2.55 | 2.63 | 2.56 | 2.41 | 2.69 | 1.67 | 2.28 | 1.98 | 2.82 | 4.14 |
| 21 | Fortis Inc. | 2.17 | 3.40 | 3.28 | 3.10 | 2.78 | 2.61 | 2.60 | 2.22 | 1.55 | 1.62 | 1.39 |
| 22 | Great Plains Energy | 1.33 | N/A | N/A | N/A | N/A | N/A | N/A | 0.97 | 1.51 | 1.27 | 1.54 |
| 23 | Hawaiian Elec. | 2.04 | 0.95 | 10.42 | 1.81 | 2.20 | 2.25 | 1.88 | 1.81 | 1.64 | 1.19 | 1.17 |
| 24 | Hydro One Limited | 1.57 | 2.05 | 1.92 | 1.81 | 1.75 | 1.61 | 1.47 | 1.23 | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 3.92 | 5.80 | 5.50 | 5.14 | 5.11 | 4.85 | 4.60 | 4.01 | 3.62 | 2.98 | 2.13 |
| 26 | MGE Energy | 2.26 | 3.65 | 3.33 | 3.25 | 3.07 | N/A | 2.51 | 2.15 | 2.11 | 1.63 | 1.49 |
| 27 | NextEra Energy, Inc. | 1.76 | 3.70 | 3.43 | 3.17 | 2.90 | 1.81 | 1.90 | 1.53 | 1.25 | 1.13 | 0.88 |
| 28 | NorthWestern Corp | 2.77 | 3.55 | 3.27 | 3.22 | 3.29 | 3.60 | 3.33 | 3.21 | 2.57 | 2.23 | 1.51 |
| 29 | OGE Energy | 1.85 | 2.30 | 2.19 | 2.07 | 2.25 | 2.36 | 2.15 | 1.77 | 1.90 | 1.52 | 1.26 |
| 30 | Otter Tail Corp. | 2.65 | 6.20 | 7.17 | 7.00 | 6.78 | 4.23 | 2.19 | 1.67 | 1.32 | 0.51 | 1.52 |
| 31 | Pinnacle West Capital | 3.90 | 4.80 | 5.24 | 4.41 | 4.26 | 5.47 | 4.73 | 4.10 | 3.58 | 2.78 | 2.75 |
| 32 | TXNM Energy | 1.70 | 2.80 | 2.74 | 2.82 | 2.69 | 2.27 | 2.03 | 1.74 | 1.39 | 0.84 | 0.86 |
| 33 | Portland General | 2.14 | 3.25 | 3.14 | 2.38 | 2.74 | 2.72 | 2.16 | 2.16 | 1.94 | 1.64 | 1.62 |
| 34 | PPL Corp. | 2.11 | 1.85 | 1.68 | 1.60 | 1.41 | 0.53 | 2.33 | 2.42 | 2.46 | 2.03 | 2.46 |
| 35 | Public Serv. Enterprise | 3.04 | 4.00 | 3.68 | 3.48 | 3.47 | 2.55 | 3.42 | 2.98 | 2.63 | 3.09 | 2.45 |
| 36 | SCANA Corp. | 3.30 | N/A | N/A | N/A | N/A | N/A | N/A | 4.06 | 3.44 | 2.93 | 2.76 |
| 37 | Sempra Energy | 4.93 | 4.55 | 4.65 | 4.61 | 9.21 | 4.01 | 6.01 | 4.70 | 4.40 | 4.42 | 4.31 |
| 38 | Southern Co. | 2.97 | 4.30 | 4.06 | 3.64 | 3.61 | 3.42 | 3.14 | 2.96 | 2.71 | 2.41 | 2.21 |
| 39 | Vectren Corp. | 1.94 | N/A | N/A | N/A | N/A | N/A | N/A | 2.51 | 1.87 | 1.72 | 1.63 |
| 40 | WEC Energy Group | 2.99 | 5.25 | 4.89 | 4.63 | 4.46 | 4.11 | 3.57 | 2.81 | 2.48 | 1.90 | 1.42 |
| 41 | Westar Energy | 1.96 | N/A | N/A | N/A | N/A | N/A | N/A | 2.26 | 2.26 | 1.62 | 1.68 |
| 42 | Xcel Energy Inc. | 2.30 | 3.80 | 3.50 | 3.35 | 3.17 | 2.96 | 2.63 | 2.20 | 1.93 | 1.59 | 1.39 |
| 43 | Average | 2.77 | 3.94 | 3.97 | 3.59 | 3.49 | 3.10 | 2.95 | 2.68 | 2.47 | 2.23 | 2.10 |
| 44 | Industry Average Growth | 3.68% | -0.75% | 10.44% | 2.96% | 12.60% | 1.28% | 3.44% | 2.66% | 3.36% | 3.58% | 2.13% |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

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² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities (Valuation Metrics)

| Line | Company | Cash Flow / Capital Spending ¹ | | | | | | | 3 - 5 yr ² Projection |
|------|-------------------------|---|-------------|-------------|-------------|-------------|-------------|--------------------------|-------------------------------------|
| | | 2020 (1) | 2021 (2) | 2022 (3) | 2023 (4) | 2024 (5) | 2025 (6) | 2026 ² (7) | |
| 1 | ALLETE | 0.74x | 0.80x | 2.26x | 1.42x | 2.21x | 1.36x | 1.38x | 1.39x |
| 2 | Alliant Energy | 0.82x | 0.97x | 0.94x | 0.95x | 0.97x | 1.04x | 1.08x | 1.27x |
| 3 | Ameren Corp. | 0.51x | 0.59x | 0.72x | 0.74x | 0.84x | 0.88x | 0.91x | 0.99x |
| 4 | American Electric Power | 0.74x | 0.69x | 0.73x | 0.72x | 0.82x | 0.87x | 0.91x | 1.12x |
| 5 | Avista Corp. | 0.85x | 0.87x | 0.83x | 0.78x | 0.84x | 0.95x | 0.93x | 0.77x |
| 6 | Black Hills | 0.72x | 0.76x | 0.85x | 0.82x | 0.68x | 0.67x | 0.69x | 0.73x |
| 7 | CenterPoint Energy | 0.88x | 0.62x | 0.62x | 0.57x | 0.55x | 0.52x | 0.50x | 0.59x |
| 8 | CMS Energy Corp. | 0.82x | 0.77x | 0.78x | 0.92x | 0.80x | 0.67x | 0.69x | 0.77x |
| 9 | Consol. Edison | 0.82x | 0.89x | 0.83x | 0.72x | 0.84x | 0.88x | 0.86x | 0.99x |
| 10 | Dominion Resources | 1.00x | 0.89x | 0.74x | 0.63x | 0.51x | 0.53x | 0.62x | 0.70x |
| 11 | DTE Energy | 0.67x | 0.70x | 0.75x | 0.82x | 0.87x | 0.90x | 0.93x | 1.01x |
| 12 | Duke Energy | 0.86x | 0.93x | 0.81x | 0.79x | 0.77x | 0.92x | 0.94x | 1.01x |
| 13 | Edison Int'l | 0.67x | 0.74x | 0.67x | 0.75x | 0.82x | 0.85x | 0.86x | 0.90x |
| 14 | El Paso Electric | 1.00x | 0.83x | N/A | N/A | N/A | N/A | N/A | N/A |
| 15 | Entergy Corp. | 0.81x | 1.05x | 0.98x | 0.85x | 0.81x | 0.73x | 0.74x | 0.75x |
| 16 | Eversource Energy | 0.95x | 0.74x | 0.72x | 0.86x | 0.76x | 0.74x | 0.76x | 0.80x |
| 17 | Evergy, Inc. | 1.06x | 0.96x | 0.94x | 0.86x | 0.86x | 0.92x | 0.95x | 1.02x |
| 18 | Exelon Corp. | 1.30x | 1.32x | 0.96x | 0.99x | 0.80x | 0.83x | 0.84x | 0.93x |
| 19 | FirstEnergy Corp. | 0.96x | 0.91x | 0.86x | 0.80x | 0.82x | 0.64x | 0.68x | 0.71x |
| 20 | Fortis Inc. | 0.60x | 0.74x | 0.75x | 0.82x | 0.85x | 0.89x | 0.91x | 0.99x |
| 21 | Hawaiian Elec. | 1.10x | 1.42x | 1.30x | 1.51x | 1.20x | 1.29x | 1.33x | 1.40x |
| 22 | Hydro One Electric | 1.21x | 0.67x | 0.72x | 0.63x | 0.60x | 0.63x | 0.64x | 0.63x |
| 23 | IDACORP, Inc. | 1.25x | 1.16x | 0.83x | 0.63x | 0.56x | 0.56x | 0.54x | 0.55x |
| 24 | MGE Energy | 0.73x | 0.87x | N/A | 1.26x | 1.10x | 0.82x | 0.81x | 1.13x |
| 25 | NextEra Energy, Inc. | 0.58x | 0.69x | 0.54x | 0.59x | 0.59x | 0.60x | 0.61x | 0.69x |
| 26 | NorthWestern Corp | 0.98x | 0.82x | 0.66x | 0.75x | 0.87x | 0.86x | 0.91x | 0.98x |
| 27 | OGE Energy | 1.43x | 1.13x | 0.99x | 0.97x | 0.99x | 1.06x | 1.11x | 1.28x |
| 28 | Otter Tail Corp. | 0.45x | 1.42x | 1.45x | 1.08x | 1.46x | 1.47x | 1.34x | 1.17x |
| 29 | Pinnacle West Capital | 0.98x | 0.85x | 0.78x | 0.95x | 0.74x | 0.77x | 0.80x | 0.93x |
| 30 | TXNM Energy | 0.59x | 0.51x | 0.63x | 0.63x | 0.53x | 0.52x | 0.53x | 0.56x |
| 31 | Portland General | 0.75x | 0.97x | 1.01x | 0.58x | 0.62x | 0.71x | 0.73x | 0.87x |
| 32 | PPL Corp. | 1.06x | 1.12x | 1.35x | 0.98x | 0.97x | 1.00x | 1.01x | 1.06x |
| 33 | Public Serv. Enterprise | 1.00x | 1.05x | 0.82x | 0.87x | 0.90x | 0.90x | 0.88x | 0.97x |
| 34 | Sempra Energy | 0.92x | 0.78x | 0.92x | 0.96x | 0.63x | 0.59x | 0.63x | 0.69x |
| 35 | Southern Co. | 1.01x | 0.93x | 0.97x | 0.97x | 0.90x | 0.97x | 1.01x | 1.15x |
| 36 | WEC Energy Group | 0.70x | 0.75x | 0.87x | 0.92x | 1.01x | 1.09x | 1.15x | 1.35x |
| 37 | Xcel Energy Inc. | 0.99x | 0.86x | 0.80x | 0.92x | 0.65x | 0.61x | 0.70x | 0.90x |
| 38 | Average | 0.88x | 0.89x | 0.90x | 0.86x | 0.85x | 0.84x | 0.86x | 0.94x |
| 39 | Median | 0.86x | 0.86x | 0.83x | 0.84x | 0.82x | 0.86x | 0.86x | 0.95x |

Source:

¹ Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Notes:

Based on the projected Cash Flow per share and Capital Spending per share.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities (Valuation Metrics)

| Line | Company | Percent Dividends to Book Value ¹ | | | | | | | | | | |
|------|-------------------------|--|---------------------|-------|-------|-------|--------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 5.87% | 5.59% | 5.51% | 5.56% | 5.52% | 5.56% | 5.47% | 5.40% | 5.83% | 6.44% | 6.73% |
| 2 | Alliant Energy | 6.45% | 7.07% | 7.04% | 6.84% | 6.84% | 6.73% | 6.75% | 6.99% | 6.43% | 6.10% | 5.25% |
| 3 | Ameren Corp. | 6.05% | 6.20% | 6.26% | 6.26% | 5.88% | 5.84% | 5.82% | 5.88% | 5.87% | 4.74% | 7.85% |
| 4 | American Electric Power | 6.43% | 7.26% | 7.05% | 6.95% | 6.80% | 6.74% | 6.75% | 6.25% | 5.94% | 6.03% | 6.28% |
| 5 | Avangrid, Inc. | 3.15% | N/A | N/A | 3.46% | 3.51% | 3.57% | 3.57% | 2.36% | N/A | N/A | N/A |
| 6 | Avista Corp. | 5.15% | 5.81% | 5.87% | 5.78% | 5.65% | 5.61% | 5.47% | 5.38% | 5.49% | 4.91% | 3.49% |
| 7 | Black Hills | 5.32% | 5.24% | 5.19% | 5.30% | 5.32% | 5.32% | 5.32% | 5.63% | 5.18% | 5.18% | 5.35% |
| 8 | CenterPoint Energy | 8.88% | 4.99% | 4.95% | 5.03% | 4.90% | 4.82% | 7.96% | 12.50% | 8.41% | 9.87% | 12.21% |
| 9 | CMS Energy Corp. | 6.82% | 7.88% | 7.69% | 7.84% | 7.89% | 7.87% | 8.58% | 8.25% | 7.96% | 5.78% | 1.81% |
| 10 | Consol. Edison | 5.89% | 5.11% | 5.24% | 5.29% | 5.42% | 5.48% | 5.50% | 5.70% | 5.91% | 6.30% | 7.04% |
| 11 | Dominion Resources | 9.99% | 8.44% | 8.66% | 8.69% | 8.54% | 8.00% | 11.14% | 11.88% | 11.63% | 9.35% | 8.52% |
| 12 | DTE Energy | 6.38% | 7.55% | 7.43% | 7.25% | 7.64% | 8.64% | 6.38% | 6.08% | 5.72% | 5.56% | 5.99% |
| 13 | Duke Energy | 5.58% | 6.44% | 6.54% | 6.37% | 6.47% | 6.34% | 6.18% | 5.73% | 5.32% | 5.73% | 3.52% |
| 14 | Edison Int'l | 5.96% | 8.66% | 8.76% | 8.30% | 9.24% | 7.36% | 7.09% | 5.53% | 4.48% | 4.06% | 4.46% |
| 15 | El Paso Electric | 2.94% | N/A | N/A | N/A | N/A | N/A | 5.04% | 4.64% | 4.57% | 1.16% | 0.00% |
| 16 | Entergy Corp. | 6.69% | 6.66% | 6.55% | 6.32% | 6.68% | 6.72% | 7.21% | 7.31% | 6.17% | 6.65% | 6.27% |
| 17 | Eversource Energy | 5.28% | 7.02% | 6.97% | 6.66% | 5.74% | 5.69% | 5.57% | 5.27% | 4.77% | 4.76% | 4.14% |
| 18 | Evergy, Inc. | 5.69% | 5.94% | 5.99% | 5.90% | 5.57% | 5.41% | 5.32% | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 6.90% | 5.94% | 5.67% | 5.59% | 5.42% | 4.36% | 4.45% | 4.39% | 6.19% | 10.30% | 11.70% |
| 20 | FirstEnergy Corp. | 8.71% | 8.00% | 7.87% | 8.81% | 8.78% | 10.26% | 12.46% | 10.48% | 5.79% | 7.54% | 7.20% |
| 21 | Fortis Inc. | 5.45% | 5.72% | 5.72% | 5.84% | 5.95% | 5.59% | 5.17% | 4.99% | 5.54% | 5.74% | 5.31% |
| 22 | Great Plains Energy | 5.31% | N/A | N/A | N/A | N/A | N/A | N/A | 4.42% | 3.95% | 3.92% | 8.94% |
| 23 | Hawaiian Elec. | 7.09% | N/A | N/A | 5.07% | 6.96% | 6.22% | 6.18% | 6.62% | 7.33% | 7.88% | 8.47% |
| 24 | Hydro One Limited | 2.42% | 4.85% | 4.47% | 4.42% | 4.57% | 4.13% | 4.57% | 4.07% | 0.00% | 0.00% | 0.00% |
| 25 | IDACORP, Inc. | 4.76% | 5.28% | 5.43% | 5.57% | 5.48% | 5.45% | 5.23% | 4.86% | 4.23% | 3.87% | 4.49% |
| 26 | MGE Energy | 6.01% | 5.12% | 5.22% | 5.30% | 5.32% | N/A | 5.47% | 5.74% | 6.02% | 6.55% | 7.29% |
| 27 | NextEra Energy, Inc. | 6.89% | 8.71% | 8.46% | 8.08% | 8.61% | 8.13% | 6.78% | 6.51% | 6.40% | 5.98% | 6.24% |
| 28 | NorthWestern Corp | 5.79% | 5.57% | 5.58% | 5.63% | 5.65% | 5.73% | 5.74% | 5.77% | 5.56% | 6.07% | 6.09% |
| 29 | OGE Energy | 6.90% | 7.20% | 7.35% | 7.49% | 7.47% | 8.04% | 7.65% | 6.53% | 5.70% | 6.28% | 7.32% |
| 30 | Otter Tail Corp. | 6.81% | 4.97% | 4.69% | 5.95% | 5.61% | 6.54% | 7.18% | 7.43% | 8.06% | 6.88% | 6.59% |
| 31 | Pinnacle West Capital | 6.21% | 6.22% | 6.26% | 6.41% | 6.40% | 6.43% | 6.31% | 5.96% | 6.37% | 6.21% | 6.00% |
| 32 | TXNM Energy | 4.19% | 5.73% | 5.50% | 5.72% | 5.52% | 3.88% | 5.31% | 4.23% | 3.17% | 2.68% | 3.74% |
| 33 | Portland General | 4.98% | 5.81% | 5.71% | 5.73% | 5.75% | 5.61% | 5.26% | 4.79% | 4.66% | 4.87% | 4.12% |
| 34 | PPL Corp. | 8.19% | 5.30% | 5.40% | 5.03% | 4.66% | 8.89% | 9.81% | 10.27% | 7.57% | 8.40% | 8.78% |
| 35 | Public Serv. Enterprise | 7.02% | 7.47% | 7.42% | 7.34% | 7.82% | 7.12% | 6.26% | 6.20% | 6.36% | 7.20% | 8.36% |
| 36 | SCANA Corp. | 6.44% | N/A | N/A | N/A | N/A | N/A | N/A | 6.04% | 6.15% | 6.61% | 6.98% |
| 37 | Sempra Energy | 5.34% | 5.46% | 5.32% | 5.41% | 5.49% | 5.56% | 6.31% | 6.08% | 5.67% | 4.37% | 4.09% |
| 38 | Southern Co. | 9.55% | 9.32% | 9.58% | 9.65% | 9.67% | 9.96% | 9.65% | 9.34% | 9.36% | 9.38% | 9.88% |
| 39 | Vectren Corp. | 7.71% | N/A | N/A | N/A | N/A | N/A | N/A | 7.61% | 7.54% | 7.78% | 7.90% |
| 40 | WEC Energy Group | 6.64% | 8.77% | 8.54% | 8.38% | 7.92% | 7.83% | 7.37% | 6.76% | 7.44% | 5.13% | 3.76% |
| 41 | Westar Energy | 5.71% | N/A | N/A | N/A | N/A | N/A | N/A | 5.68% | 5.69% | 5.82% | 5.65% |
| 42 | Xcel Energy Inc. | 6.21% | 6.37% | 6.44% | 6.55% | 6.43% | 6.38% | 6.38% | 6.26% | 5.87% | 5.99% | 6.16% |
| 43 | Average | 6.26% | 6.51% | 6.47% | 6.37% | 6.41% | 6.44% | 6.54% | 6.39% | 6.01% | 5.95% | 6.10% |
| 44 | Median | 6.12% | 6.20% | 6.26% | 5.95% | 5.88% | 6.28% | 6.22% | 5.96% | 5.87% | 6.01% | 6.20% |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

^a Based on the projected 2024 Dividend Declared per share and Book Value per share, published in The Value Line Investment Survey, April 18, May 9, and June 6, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities
(Valuation Metrics)

| | | Dividends to Earnings Ratio ¹ | | | | | | | | | | |
|------|-------------------------|--|---------------------|------|------|------|-----------------|-----------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | 3-Year Averages | | | | | |
| Line | Company | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 0.71 | 0.78 | 0.91 | 0.63 | 0.77 | 0.78 | 0.70 | 0.65 | 0.70 | 0.80 | 0.56 |
| 2 | Alliant Energy | 0.62 | 0.63 | 0.71 | 0.65 | 0.63 | 0.61 | 0.61 | 0.67 | 0.58 | 0.66 | 0.53 |
| 3 | Ameren Corp. | 0.65 | 0.58 | 0.58 | 0.58 | 0.57 | 0.57 | 0.57 | 0.66 | 0.70 | 0.58 | 0.90 |
| 4 | American Electric Power | 0.61 | 0.64 | 0.64 | 0.64 | 0.62 | 0.60 | 0.65 | 0.60 | 0.62 | 0.60 | 0.54 |
| 5 | Avangrid, Inc. | 0.88 | N/A | N/A | 0.84 | 0.76 | 0.89 | 0.87 | 0.95 | N/A | N/A | N/A |
| 6 | Avista Corp. | 0.70 | 0.77 | 0.83 | 0.82 | 0.83 | 0.80 | 0.70 | 0.69 | 0.74 | 0.59 | 0.57 |
| 7 | Black Hills | 1.02 | 0.66 | 0.66 | 0.64 | 0.61 | 0.61 | 0.57 | 0.58 | 0.62 | 0.98 | 2.96 |
| 8 | CenterPoint Energy | 0.70 | 0.52 | 0.51 | 0.56 | 0.45 | 0.70 | 0.93 | 0.94 | 0.65 | 0.70 | 0.53 |
| 9 | CMS Energy Corp. | 0.58 | 0.60 | 0.62 | 0.65 | 0.65 | 0.67 | 0.62 | 0.62 | 0.62 | 0.54 | 0.30 |
| 10 | Consol. Edison | 0.68 | 0.60 | 0.62 | 0.64 | 0.69 | 0.65 | 0.71 | 0.67 | 0.65 | 0.70 | 0.71 |
| 11 | Dominion Resources | 0.88 | 0.79 | 0.96 | 1.34 | 0.65 | 0.79 | 1.53 | 0.83 | 0.76 | 0.67 | 0.59 |
| 12 | DTE Energy | 0.66 | 0.61 | 0.61 | 0.57 | 0.64 | 0.95 | 0.59 | 0.62 | 0.61 | 0.62 | 0.81 |
| 13 | Duke Energy | 0.79 | 0.66 | 0.70 | 0.73 | 0.76 | 0.79 | 0.86 | 0.84 | 0.79 | 0.76 | 0.80 |
| 14 | Edison Int'l | 0.49 | 0.58 | 0.65 | 0.63 | 1.78 | 1.35 | 0.06 | 0.47 | 0.33 | 0.39 | 0.34 |
| 15 | El Paso Electric | 0.50 | N/A | N/A | N/A | N/A | N/A | 0.68 | 0.54 | 0.46 | 0.27 | N/A |
| 16 | Entergy Corp. | 0.57 | 0.73 | 0.94 | 0.39 | 0.76 | 0.56 | 0.58 | 0.58 | 0.60 | 0.47 | 0.45 |
| 17 | Eversource Energy | 0.60 | 0.63 | 0.63 | 0.62 | 0.62 | 0.68 | 0.63 | 0.61 | 0.63 | 0.49 | 0.61 |
| 18 | Evergy, Inc. | 0.68 | 0.67 | 0.68 | 0.78 | 0.71 | 0.57 | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 0.60 | 0.61 | 0.62 | 0.61 | 0.60 | 0.88 | 0.58 | 0.55 | 0.77 | 0.53 | 0.47 |
| 20 | FirstEnergy Corp. | 0.77 | 0.70 | 0.65 | 0.63 | 0.65 | 0.58 | 1.01 | 0.64 | 1.09 | 0.84 | 0.49 |
| 21 | Fortis Inc. | 0.72 | 0.73 | 0.73 | 0.74 | 0.78 | 0.80 | 0.71 | 0.71 | 0.81 | 0.68 | 0.60 |
| 22 | Great Plains Energy | - 0.82 | N/A | N/A | N/A | N/A | N/A | N/A | - 5.65 | 0.59 | 0.67 | 1.12 |
| 23 | Hawaiian Elec. | 0.82 | N/A | N/A | 0.60 | 0.64 | 0.60 | 0.68 | 0.71 | 0.75 | 1.08 | 1.07 |
| 24 | Hydro One Limited | 0.88 | 0.49 | 0.47 | 0.48 | 0.49 | 0.47 | 1.87 | 0.57 | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 0.52 | 0.61 | 0.61 | 0.62 | 0.59 | 0.59 | 0.56 | 0.52 | 0.43 | 0.41 | 0.57 |
| 26 | MGE Energy | 0.56 | 0.51 | 0.53 | 0.51 | 0.52 | N/A | 0.55 | 0.56 | 0.51 | 0.61 | 0.63 |
| 27 | NextEra Energy, Inc. | 0.56 | 0.61 | 0.60 | 0.59 | 0.59 | 0.85 | 0.66 | 0.57 | 0.53 | 0.45 | 0.47 |
| 28 | NorthWestern Corp | 0.70 | 0.74 | 0.80 | 0.80 | 0.77 | 0.69 | 0.69 | 0.63 | 0.60 | 0.62 | 0.86 |
| 29 | OGE Energy | 0.61 | 0.74 | 0.77 | 0.80 | 0.73 | 0.69 | 0.70 | 0.66 | 0.45 | 0.49 | 0.54 |
| 30 | Otter Tail Corp. | 0.92 | 0.34 | 0.26 | 0.25 | 0.24 | 0.37 | 0.64 | 0.75 | 0.93 | 2.48 | 0.81 |
| 31 | Pinnacle West Capital | 0.71 | 0.75 | 0.68 | 0.79 | 0.80 | 0.61 | 0.64 | 0.63 | 0.67 | 0.77 | 0.78 |
| 32 | TXNM Energy | 0.82 | 0.59 | 0.57 | 0.53 | 0.52 | 0.43 | 0.58 | 0.51 | 0.48 | 0.63 | 2.40 |
| 33 | Portland General | 0.63 | 0.64 | 0.63 | 0.79 | 0.65 | 0.63 | 0.72 | 0.58 | 0.57 | 0.65 | 0.56 |
| 34 | PPL Corp. | 0.76 | 0.59 | 0.61 | 0.59 | 0.62 | 3.13 | 0.72 | 0.64 | 0.60 | 0.77 | 0.50 |
| 35 | Public Serv. Enterprise | 0.56 | 0.63 | 0.65 | 0.66 | 0.62 | 0.80 | 0.56 | 0.55 | 0.55 | 0.44 | 0.50 |
| 36 | SCANA Corp. | 0.61 | N/A | N/A | N/A | N/A | N/A | N/A | 0.57 | 0.59 | 0.65 | 0.64 |
| 37 | Sempra Energy | 0.54 | 0.57 | 0.53 | 0.52 | 0.50 | 1.10 | 0.65 | 0.65 | 0.57 | 0.38 | 0.29 |
| 38 | Southern Co. | 0.75 | 0.69 | 0.70 | 0.76 | 0.75 | 0.77 | 0.78 | 0.75 | 0.74 | 0.75 | 0.72 |
| 39 | Vectren Corp. | 0.75 | N/A | N/A | N/A | N/A | N/A | N/A | 0.65 | 0.77 | 0.80 | 0.78 |
| 40 | WEC Energy Group | 0.57 | 0.68 | 0.68 | 0.67 | 0.65 | 0.66 | 0.66 | 0.69 | 0.56 | 0.44 | 0.35 |
| 41 | Westar Energy | 0.68 | N/A | N/A | N/A | N/A | N/A | N/A | 0.67 | 0.60 | 0.78 | 0.66 |
| 42 | Xcel Energy Inc. | 0.62 | 0.60 | 0.63 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.58 | 0.63 | 0.66 |
| 43 | Average | 0.66 | 0.64 | 0.66 | 0.66 | 0.67 | 0.77 | 0.72 | 0.49 | 0.64 | 0.68 | 0.73 |
| 44 | Median | 0.63 | 0.63 | 0.64 | 0.63 | 0.64 | 0.68 | 0.66 | 0.63 | 0.61 | 0.63 | 0.59 |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Note:

^b Based on the projected 2024 Dividends Declared per share and Earnings per share, published in The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electric Utilities (Valuation Metrics)

| | | Cash Flow to Capital Spending Ratio ¹ | | | | | | | | | | |
|------|-------------------------|--|---------------------|------|------|------|------|-----------------|-----------|-----------|-----------|-----------|
| Line | Company | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | ALLETE | 0.97 | 1.36 | 1.30 | 1.76 | 2.12 | 0.55 | 0.80 | 1.37 | 0.54 | 0.60 | 0.78 |
| 2 | Alliant Energy | 0.81 | 1.04 | 0.65 | 0.74 | 0.91 | 0.95 | N/A | 0.65 | 0.83 | 0.65 | 0.96 |
| 3 | Ameren Corp. | 0.86 | 0.88 | 0.83 | 0.78 | 0.71 | 0.62 | 0.74 | 0.75 | 0.91 | 1.16 | 0.95 |
| 4 | American Electric Power | 0.86 | 0.87 | 0.84 | 0.79 | 0.81 | 0.81 | 0.75 | 0.79 | 0.95 | 1.15 | 0.74 |
| 5 | Avangrid, Inc. | 0.71 | N/A | N/A | 0.66 | 0.79 | 0.56 | 0.68 | 0.77 | N/A | N/A | N/A |
| 6 | Avista Corp. | 0.89 | 0.95 | 0.85 | 0.88 | 0.73 | 0.88 | 0.86 | 0.79 | 0.82 | 1.02 | 1.02 |
| 7 | Black Hills | 0.68 | 0.67 | 0.68 | 0.95 | 0.86 | 0.61 | 0.67 | 0.84 | 0.72 | 0.47 | 0.55 |
| 8 | CenterPoint Energy | 0.93 | 0.52 | 0.54 | 0.53 | 0.52 | 0.73 | 0.85 | 1.09 | 1.25 | 1.00 | 1.07 |
| 9 | CMS Energy Corp. | 0.85 | 0.67 | 0.74 | 0.85 | 0.82 | 0.78 | 0.78 | 0.84 | 0.79 | 1.05 | 0.91 |
| 10 | Consol. Edison | 0.83 | 0.88 | 0.84 | 0.84 | 0.88 | 0.83 | 0.84 | 0.72 | 0.92 | 0.88 | 0.75 |
| 11 | Dominion Resources | 0.74 | 0.53 | 0.41 | 0.46 | 0.86 | 0.73 | 0.91 | 0.70 | 0.71 | 0.80 | 0.81 |
| 12 | DTE Energy | 0.97 | 0.90 | 0.87 | 0.85 | 0.86 | 0.74 | 0.80 | 0.90 | 0.97 | 1.37 | 1.03 |
| 13 | Duke Energy | 0.89 | 0.92 | 0.89 | 0.81 | 0.87 | 0.85 | 0.82 | 0.88 | 1.05 | 0.81 | 0.93 |
| 14 | Edison Int'l | 0.75 | 0.85 | 0.85 | 0.83 | 0.62 | 0.55 | 0.52 | 0.88 | 0.79 | 0.67 | 0.91 |
| 15 | El Paso Electric | 0.87 | N/A | N/A | N/A | N/A | 0.83 | 0.86 | 0.86 | 0.77 | 0.90 | 0.96 |
| 16 | Entergy Corp. | 0.94 | 0.73 | 0.72 | 1.03 | 0.62 | 0.74 | 0.76 | 0.97 | 1.03 | 1.14 | 1.07 |
| 17 | Eversource Energy | 0.83 | 0.74 | 0.76 | 0.54 | 0.89 | 0.80 | 0.80 | 0.86 | 0.96 | 0.94 | 0.70 |
| 18 | Evergy, Inc. | 0.91 | 0.92 | 0.93 | 0.90 | 0.78 | 1.03 | N/A | N/A | N/A | N/A | N/A |
| 19 | Exelon Corp. | 1.16 | 0.83 | 0.81 | 0.82 | 0.84 | 1.09 | 1.12 | 0.88 | 0.99 | 1.50 | 1.77 |
| 20 | FirstEnergy Corp. | 0.97 | 0.64 | 0.77 | 0.82 | 0.98 | 0.83 | 0.80 | 0.96 | 0.77 | 1.20 | 1.42 |
| 21 | Fortis Inc. | 0.72 | 0.89 | 0.88 | 0.93 | 0.89 | 0.65 | 0.68 | 0.72 | 0.70 | 0.66 | 0.62 |
| 22 | Great Plains Energy | 0.79 | N/A | N/A | N/A | N/A | N/A | N/A | 0.95 | 0.85 | 0.80 | 0.56 |
| 23 | Hawaiian Elec. | 1.22 | 1.29 | 2.99 | 1.14 | 1.56 | 1.27 | 1.07 | 1.05 | 0.98 | 1.19 | 1.09 |
| 24 | Hydro One Limited | 0.87 | 0.63 | 0.60 | 0.63 | 0.72 | 1.21 | 0.96 | 0.97 | N/A | N/A | N/A |
| 25 | IDACORP, Inc. | 1.04 | 0.56 | 0.51 | 0.75 | 1.00 | 1.33 | 1.40 | 1.21 | 1.26 | 0.87 | 0.79 |
| 26 | MGE Energy | 1.06 | 0.82 | 0.97 | 0.98 | 1.12 | 0.82 | 0.82 | 1.41 | 1.10 | 1.42 | 0.75 |
| 27 | NextEra Energy, Inc. | 0.60 | 0.60 | 0.52 | 0.50 | 0.55 | 0.58 | 0.60 | 0.62 | 0.61 | 0.63 | 0.64 |
| 28 | NorthWestern Corp | 0.99 | 0.86 | 0.79 | 0.72 | 0.75 | 0.84 | 1.07 | 1.11 | 0.91 | 0.89 | 1.26 |
| 29 | OGE Energy | 0.93 | 1.06 | 1.02 | 1.03 | 0.87 | 1.24 | 1.27 | 1.00 | 0.84 | 0.61 | 0.74 |
| 30 | Otter Tail Corp. | 1.04 | 1.47 | 1.83 | 1.98 | 2.13 | 0.48 | 0.92 | 0.89 | 0.74 | 0.94 | 0.82 |
| 31 | Pinnacle West Capital | 0.92 | 0.77 | 0.70 | 0.73 | 0.89 | 0.91 | 1.00 | 0.83 | 0.93 | 0.98 | 1.04 |
| 32 | TXNM Energy | 0.68 | 0.52 | 0.51 | 0.55 | 0.63 | 0.72 | 0.77 | 0.66 | 0.77 | 0.76 | 0.58 |
| 33 | Portland General | 0.81 | 0.71 | 0.65 | 0.51 | 0.86 | 0.78 | 0.93 | 0.92 | 0.78 | 0.83 | 0.76 |
| 34 | PPL Corp. | 0.97 | 1.00 | 0.90 | 1.06 | 1.05 | 0.90 | 0.94 | 0.84 | 0.78 | 1.08 | 1.18 |
| 35 | Public Serv. Enterprise | 1.09 | 0.90 | 0.95 | 0.92 | 1.05 | 1.13 | 0.97 | 0.68 | 0.98 | 1.31 | 1.64 |
| 36 | SCANA Corp. | 0.86 | N/A | N/A | N/A | N/A | N/A | N/A | 0.78 | 0.84 | 0.83 | 0.98 |
| 37 | Sempra Energy | 0.78 | 0.59 | 0.59 | 0.61 | 0.92 | 0.77 | 0.81 | 0.68 | 0.77 | 0.88 | 0.90 |
| 38 | Southern Co. | 0.90 | 0.97 | 0.94 | 0.88 | 0.97 | 0.99 | 0.90 | 0.85 | 0.86 | 0.88 | 0.93 |
| 39 | Vectren Corp. | 1.00 | N/A | N/A | N/A | N/A | N/A | N/A | 0.88 | 1.06 | 1.11 | 0.93 |
| 40 | WEC Energy Group | 0.99 | 1.09 | 1.01 | 0.95 | 1.09 | 0.97 | 0.93 | 1.03 | 1.36 | 0.96 | 0.62 |
| 41 | Westar Energy | 0.72 | N/A | N/A | N/A | N/A | N/A | N/A | 0.80 | 0.70 | 0.76 | 0.61 |
| 42 | Xcel Energy Inc. | 0.75 | 0.61 | 0.66 | 0.75 | 0.93 | 0.66 | 0.74 | 0.75 | 0.68 | 0.83 | 0.79 |
| 43 | Average | 0.89 | 0.84 | 0.87 | 0.85 | 0.93 | 0.84 | 0.86 | 0.88 | 0.88 | 0.94 | 0.91 |
| 44 | Median | 0.84 | 0.86 | 0.82 | 0.82 | 0.87 | 0.81 | 0.83 | 0.86 | 0.84 | 0.89 | 0.91 |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Notes:

^a Based on the projected Cash Flow per share and Capital Spending per share published in The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| Line | Company | Price to Earnings (P/E) Ratio ¹ | | | | | | | | | | |
|------|----------------------|--|-------------------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | Atmos Energy | 17.76 | 20.90 | 20.90 | 16.80 | 19.30 | 18.80 | 22.40 | 20.10 | 15.97 | 13.37 | 14.34 |
| 2 | Chesapeake Utilities | 19.60 | 21.60 | 21.60 | 21.60 | 25.80 | 25.60 | 23.07 | 23.07 | 16.03 | 13.53 | 16.25 |
| 3 | New Jersey Resources | 16.92 | 14.90 | 14.90 | 14.90 | 17.00 | 17.50 | 19.20 | 20.10 | 14.83 | 15.57 | 16.68 |
| 4 | NiSource Inc. | 21.87 | 20.10 | 20.10 | 16.90 | 19.60 | 18.00 | 19.77 | 41.63 | 19.83 | 16.33 | 16.69 |
| 5 | Northwest Nat. Gas | 19.90 | 13.70 | 13.70 | 15.40 | 19.60 | 19.50 | 27.50 | 25.30 | 20.40 | 17.07 | 16.88 |
| 6 | ONE Gas Inc. | 20.28 | 17.30 | 17.30 | 16.00 | 19.90 | 18.90 | 23.37 | 22.00 | 17.80 | N/A | N/A |
| 7 | Southwest Gas | 18.05 | 19.80 | 19.80 | 23.00 | NMF | 14.30 | 19.57 | 21.07 | 16.23 | 13.97 | 17.85 |
| 8 | Spire Inc. | 18.24 | 17.40 | 17.40 | 14.50 | 17.50 | 13.60 | 30.20 | 18.63 | 18.53 | 13.37 | 14.03 |
| 9 | UGI Corp. | 14.79 | 10.20 | 10.20 | 8.40 | 14.10 | 13.90 | 18.33 | 19.27 | 15.87 | 12.07 | 14.12 |
| 10 | Average | 18.44 | 17.32 | 17.32 | 16.39 | 19.10 | 17.79 | 22.60 | 23.46 | 17.28 | 14.41 | 15.85 |
| 11 | Median | 17.40 | 17.40 | 17.40 | 16.00 | 19.45 | 18.00 | 22.40 | 21.07 | 16.23 | 13.75 | 16.46 |

| Line | Company | Market Price to Cash Flow (MP/CF) Ratio ¹ | | | | | | | | | | |
|------|----------------------|--|-------------------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (22) | (23) | (24) | (25) | (26) |
| 12 | Atmos Energy | 9.63 | 12.87 | 11.93 | 11.27 | 11.87 | 10.99 | 12.83 | 10.88 | 7.85 | 6.26 | 6.76 |
| 13 | Chesapeake Utilities | 11.03 | 13.39 | 14.44 | 15.77 | 14.21 | 14.20 | 12.91 | 12.00 | 8.28 | 7.73 | 8.62 |
| 14 | New Jersey Resources | 11.71 | 9.38 | 9.95 | 11.22 | 11.55 | 11.56 | 12.84 | 13.37 | 10.84 | 11.79 | 11.31 |
| 15 | NiSource Inc. | 7.93 | 9.38 | 7.98 | 7.13 | 8.13 | 7.89 | 8.52 | 10.35 | 9.03 | 5.32 | 6.14 |
| 16 | Northwest Nat. Gas | 11.61 | 6.34 | 6.96 | 7.56 | 8.76 | 8.57 | 11.66 | 26.92 | 8.98 | 8.76 | 8.37 |
| 17 | ONE Gas Inc. | 9.87 | 7.87 | 7.87 | 7.73 | 9.91 | 9.32 | 11.82 | 10.73 | 8.16 | N/A | N/A |
| 18 | Southwest Gas | 7.25 | 7.11 | 7.77 | 7.35 | 19.83 | 6.87 | 8.43 | 7.69 | 5.95 | 4.78 | 5.20 |
| 19 | Spire Inc. | 9.40 | 7.96 | 7.29 | 7.53 | 8.34 | 7.55 | 11.63 | 9.73 | 11.53 | 8.26 | 8.62 |
| 20 | UGI Corp. | 7.57 | 5.14 | 4.67 | 5.84 | 7.20 | 9.56 | 9.78 | 9.19 | 6.78 | 6.42 | 7.50 |
| 21 | Average | 9.47 | 8.83 | 8.76 | 9.04 | 11.09 | 9.61 | 11.16 | 12.32 | 8.60 | 7.42 | 7.82 |
| 22 | Median | 8.28 | 7.96 | 7.87 | 7.56 | 9.91 | 9.32 | 11.66 | 10.73 | 8.28 | 7.07 | 7.94 |

| Line | Company | Market Price to Book Value (MP/BV) Ratio ¹ | | | | | | | | | | |
|------|----------------------|---|-------------------|------|------|------|------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (22) | (23) | (24) | (25) | (26) |
| 23 | Atmos Energy | 1.60 | 1.80 | 1.68 | 1.55 | 1.65 | 1.59 | 2.03 | 2.00 | 1.41 | 1.18 | 1.31 |
| 24 | Chesapeake Utilities | 2.05 | 1.97 | 1.91 | 1.93 | 2.69 | 2.77 | 2.49 | 2.32 | 1.87 | 1.46 | 1.78 |
| 25 | New Jersey Resources | 2.24 | 1.93 | 2.06 | 2.32 | 2.35 | 2.26 | 2.43 | 2.50 | 2.17 | 2.19 | 2.03 |
| 26 | NiSource Inc. | 1.54 | 1.65 | 1.40 | 1.14 | 2.15 | 1.86 | 1.99 | 1.92 | 1.63 | 0.92 | 1.10 |
| 27 | Northwest Nat. Gas | 1.75 | 1.15 | 1.15 | 1.29 | 1.51 | 1.45 | 2.23 | 1.99 | 1.62 | 1.73 | 1.90 |
| 28 | ONE Gas Inc. | 1.61 | 1.38 | 1.32 | 1.43 | 1.73 | 1.57 | 2.01 | 1.61 | 1.07 | N/A | N/A |
| 29 | Southwest Gas | 1.52 | 1.32 | 1.34 | 1.28 | 1.62 | 1.32 | 1.70 | 1.93 | 1.60 | 1.21 | 1.38 |
| 30 | Spire Inc. | 1.52 | 1.31 | 1.25 | 1.29 | 1.43 | 1.47 | 1.69 | 1.57 | 1.40 | 1.51 | 1.69 |
| 31 | UGI Corp. | 1.90 | 1.24 | 1.30 | 1.59 | 1.39 | 1.64 | 2.36 | 2.44 | 1.70 | 1.65 | 2.13 |
| 32 | Average | 1.75 | 1.53 | 1.49 | 1.53 | 1.83 | 1.77 | 2.10 | 2.03 | 1.61 | 1.48 | 1.66 |
| 33 | Median | 1.66 | 1.38 | 1.34 | 1.43 | 1.65 | 1.59 | 2.03 | 1.99 | 1.62 | 1.49 | 1.73 |

Sources:

The current year P/E ratio is based on the forward P/E (price over expected earnings per share). All historical year P/E ratios are based on annual average share price over achieved earnings per share.

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 23, 2025.

Notes:

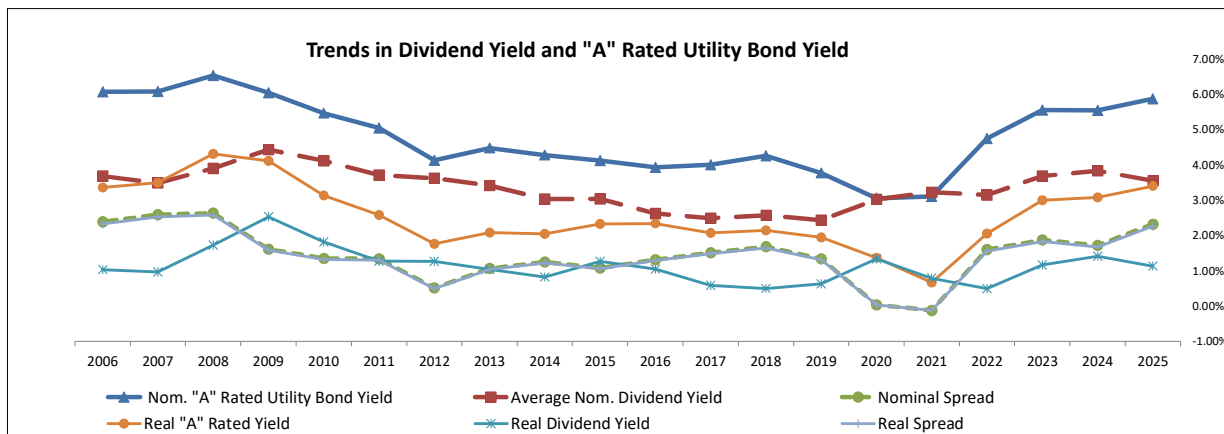
^a Based on the average of the high and low price for year and the projected Cash Flow per share, published in The Value Line Investment Survey.

^b Based on the average of the high and low price for the year and the projected Book Value per share, published in The Value Line Investment Survey.

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| | | Dividend Yield ¹ | | | | | | | | | | |
|---------------------------------------|--------------------------------------|-----------------------------|---------------------|-------|-------|--------|--------|-----------------|-----------|-----------|-----------|-----------|
| Line | Company | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | Atmos Energy | 3.25% | 2.29% | 2.45% | 2.62% | 2.46% | 2.63% | 2.17% | 2.51% | 3.59% | 4.74% | 4.53% |
| 2 | Chesapeake Utilities | 2.59% | 2.10% | 2.12% | 2.08% | 1.61% | 1.50% | 1.77% | 1.93% | 2.85% | 3.79% | 3.83% |
| 3 | New Jersey Resources | 3.27% | 3.76% | 3.75% | 3.29% | 3.25% | 3.50% | 2.86% | 2.90% | 3.53% | 3.49% | 3.19% |
| 4 | NiSource Inc. | 3.87% | 2.91% | 3.34% | 3.85% | 3.33% | 3.60% | 3.12% | 3.03% | 3.28% | 5.94% | 4.73% |
| 5 | Northwest Nat. Gas | 3.74% | 4.76% | 4.93% | 4.40% | 3.86% | 3.90% | 3.06% | 3.43% | 4.06% | 3.73% | 3.37% |
| 6 | ONE Gas Inc. | 2.88% | 3.60% | 3.87% | 3.72% | 3.08% | 3.21% | 2.47% | 2.47% | 2.28% | N/A | N/A |
| 7 | Southwest Gas | 3.05% | 3.45% | 3.60% | 4.07% | 3.20% | 3.65% | 2.87% | 2.65% | 2.72% | 3.32% | 2.78% |
| 8 | Spire Inc. | 3.89% | 4.33% | 4.65% | 4.44% | 3.89% | 3.79% | 3.15% | 3.24% | 3.95% | 4.31% | 4.24% |
| 9 | UGI Corp. | 3.22% | 4.75% | 5.75% | 4.64% | 3.61% | 3.25% | 2.60% | 2.29% | 3.10% | 3.34% | 2.83% |
| 10 | Average | 3.35% | 3.55% | 3.83% | 3.68% | 3.14% | 3.23% | 2.67% | 2.72% | 3.26% | 4.08% | 3.69% |
| 11 | Median | 3.46% | 3.60% | 3.75% | 3.85% | 3.25% | 3.50% | 2.86% | 2.65% | 3.28% | 3.76% | 3.60% |
| 12 | 30-Yr Treasury Yields | 3.50% | 4.79% | 4.41% | 4.09% | 3.11% | 2.06% | 2.42% | 2.78% | 3.24% | 4.08% | 4.67% |
| 13 | 20-Yr Treasury Yields ³ | 3.39% | 4.81% | 4.50% | 4.25% | 3.30% | 1.98% | 2.26% | 2.47% | 2.91% | 3.92% | 4.75% |
| 14 | 20-Yr TIPS ³ | 1.18% | 2.36% | 2.06% | 1.73% | 0.64% | -0.43% | 0.41% | 0.73% | 0.61% | 1.71% | 2.28% |
| 15 | Implied Inflation ^b | 2.18% | 2.39% | 2.39% | 2.48% | 2.64% | 2.42% | 1.84% | 1.73% | 2.29% | 2.17% | 2.42% |
| 16 | Real Dividend Yield ^c | 1.14% | 1.13% | 1.40% | 1.17% | 0.49% | 0.79% | 0.82% | 0.97% | 0.95% | 1.87% | 1.24% |
| Utility | | | | | | | | | | | | |
| 17 | Nominal "A" Rated Yield ^d | 4.80% | 5.87% | 5.54% | 5.55% | 4.74% | 3.10% | 3.69% | 4.01% | 4.29% | 5.51% | 6.22% |
| 18 | Real "A" Rated Yield | 2.56% | 3.40% | 3.08% | 2.99% | 2.05% | 0.67% | 1.82% | 2.24% | 1.96% | 3.27% | 3.72% |
| Spreads (Utility Bond - Stock) | | | | | | | | | | | | |
| 19 | Nominal ^d | 1.45% | 2.32% | 1.71% | 1.87% | 1.60% | -0.12% | 1.02% | 1.30% | 1.03% | 1.43% | 2.54% |
| 20 | Real ^e | 1.42% | 2.26% | 1.67% | 1.82% | 1.56% | -0.12% | 1.00% | 1.28% | 1.01% | 1.40% | 2.48% |
| Spreads (Treasury Bond - Stock) | | | | | | | | | | | | |
| 21 | Nominal ^f | 0.04% | 1.25% | 0.67% | 0.57% | 0.16% | -1.25% | -0.42% | -0.24% | -0.35% | -0.16% | 1.07% |
| 22 | Real ^g | 0.04% | 1.23% | 0.66% | 0.56% | 0.15% | -1.22% | -0.41% | -0.24% | -0.34% | -0.16% | 1.04% |
| Spreads (30-Yr Treasury Bond - Stock) | | | | | | | | | | | | |
| 23 | Nominal ^h | 0.15% | 1.24% | 0.58% | 0.41% | -0.03% | -1.17% | -0.26% | 0.06% | -0.03% | 0.00% | 0.98% |



Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 23, 2025.

³ St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.

⁴ Mergent Bond Record, through June 30, 2025.

Notes:

^a Based on the average of the high and low price for the year and the projected Dividends Declared per share published in the Value Line Investment Survey.

^b Line 15 = (1 + Line 13) / (1 + Line 14) - 1.

^c Line 16 = (1 + Line 10) / (1 + Line 15) - 1.

^d The spread being measured here is the nominal A-rated utility bond yield over the average nominal utility dividend yield; (Line 17 - Line 10).

^e The spread being measured here is the real A-rated utility bond yield over the average real utility dividend yield; (Line 18 - Line 16).

^f The spread being measured here is the nominal 20-Year Treasury yield over the average nominal utility dividend yield; (Line 13 - Line 10).

^g The spread being measured here is the real 20-Year TIPS yield over the average real utility dividend yield; (Line 14 - Line 16).

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| | | Dividend per Share ¹ | | | | | | | | | | | | |
|------|-------------------------|---------------------------------|-------------------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|--------|--------|
| Line | Company | 20-Year | | | | | | 3-Year Averages | | | | | 2018 | 2017 |
| | | Average | 2025 ² | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 | CAGR | CAGR |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| 1 | Atmos Energy | 1.92 | 3.48 | 3.22 | 2.96 | 2.72 | 2.50 | 2.11 | 1.68 | 1.42 | 1.34 | 1.28 | 2.01% | 2.05% |
| 2 | Chesapeake Utilities | 1.37 | 2.65 | 2.46 | 2.25 | 2.03 | 1.84 | 1.54 | 1.19 | 1.01 | 0.87 | 0.79 | 2.73% | 2.82% |
| 3 | New Jersey Resources | 1.02 | 1.80 | 1.71 | 1.56 | 1.45 | 1.36 | 1.19 | 0.98 | 0.81 | 0.67 | 0.51 | 3.51% | 4.00% |
| 4 | NiSource Inc. | 0.90 | 1.12 | 1.06 | 1.00 | 0.94 | 0.88 | 0.81 | 0.72 | 0.98 | 0.92 | 0.92 | -0.82% | -1.69% |
| 5 | Northwest Nat. Gas | 1.79 | 1.96 | 1.95 | 1.94 | 1.93 | 1.92 | 1.90 | 1.87 | 1.82 | 1.68 | 1.45 | 1.09% | 1.34% |
| 6 | ONE Gas Inc. | 1.99 | 2.68 | 2.64 | 2.60 | 2.48 | 2.32 | 2.00 | 1.43 | 0.84 | N/A | N/A | 2.27% | 2.31% |
| 7 | Southwest Gas | 1.69 | 2.48 | 2.48 | 2.48 | 2.48 | 2.38 | 2.18 | 1.80 | 1.32 | 1.00 | 0.86 | 4.24% | 5.05% |
| 8 | Spire Inc. | 2.08 | 3.14 | 3.02 | 2.88 | 2.74 | 2.60 | 2.37 | 1.97 | 1.71 | 1.57 | 1.45 | 2.07% | 2.17% |
| 9 | UGI Corp. | 0.95 | 1.50 | 1.50 | 1.47 | 1.41 | 1.35 | 1.16 | 0.93 | 0.75 | 0.60 | 0.48 | 3.57% | 4.12% |
| 10 | Average | 1.48 | 2.31 | 2.23 | 2.13 | 2.02 | 1.91 | 1.70 | 1.40 | 1.18 | 1.08 | 0.97 | 2.30% | 2.46% |
| 11 | Industry Average Growth | 4.88% | 3.84% | 4.70% | 5.28% | 6.01% | 5.54% | 6.64% | 6.41% | 3.16% | 4.06% | 3.28% | | |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 23, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| Line | Company | Earnings per Share ¹ | | | | | | | | | | |
|------|--------------------------------|---------------------------------|--------------------------|--------------|---------------|---------------|---------------|------------------|------------------|------------------|------------------|------------------|
| | | 20-Year | 3-Year Averages | | | | | | | | | |
| | | <u>Average</u> | <u>2025 ²</u> | <u>2024</u> | <u>2023</u> | <u>2022</u> | <u>2021</u> | <u>2018-2020</u> | <u>2015-2017</u> | <u>2012-2014</u> | <u>2009-2011</u> | <u>2006-2008</u> |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | Atmos Energy | 3.70 | 7.30 | 6.83 | 6.10 | 5.60 | 5.12 | 4.36 | 3.36 | 2.52 | 2.13 | 1.98 |
| 2 | Chesapeake Utilities | 3.03 | 5.70 | 5.26 | 4.73 | 4.97 | 4.70 | 3.79 | 2.74 | 2.24 | 1.72 | 1.28 |
| 3 | New Jersey Resources | 1.85 | 3.30 | 2.95 | 2.70 | 2.50 | 2.16 | 2.25 | 1.71 | 1.60 | 1.24 | 1.02 |
| 4 | NiSource Inc. | 1.26 | 1.90 | 1.75 | 1.60 | 1.47 | 1.35 | 1.31 | 0.67 | 1.54 | 0.98 | 1.21 |
| 5 | Northwest Nat. Gas | 2.21 | 3.00 | 2.33 | 2.59 | 2.54 | 2.50 | 2.27 | 0.71 | 2.21 | 2.65 | 2.56 |
| 6 | ONE Gas Inc. | 3.39 | 4.30 | 3.91 | 4.14 | 4.08 | 3.85 | 3.48 | 2.64 | 2.07 | N/A | N/A |
| 7 | Southwest Gas | 2.89 | 3.50 | 2.76 | 2.13 | 3.10 | 3.80 | 3.92 | 3.24 | 2.99 | 2.21 | 1.77 |
| 8 | Spire Inc. | 3.14 | 4.05 | 4.19 | 3.85 | 3.95 | 4.96 | 3.10 | 3.28 | 2.39 | 2.74 | 2.44 |
| 9 | UGI Corp. | 2.10 | 3.40 | 3.06 | 2.84 | 2.90 | 2.96 | 2.56 | 2.12 | 1.56 | 1.51 | 1.20 |
| 10 | Average | 2.55 | 4.05 | 3.67 | 3.41 | 3.46 | 3.49 | 3.00 | 2.27 | 2.12 | 1.90 | 1.68 |
| 11 | Industry Average Growth | 5.51% | 10.32% | 7.69% | -1.38% | -0.92% | 18.27% | 14.40% | -2.65% | 5.77% | 3.58% | 3.74% |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 23, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| Line | Company | Cash Flow / Capital Spending ¹ | | | | | | | 3 - 5 yr ² |
|------|----------------------|---|-------------|-------------|-------------|-------------|-------------|--------------------------|-----------------------|
| | | 2020 (2) | 2021 (3) | 2022 (4) | 2023 (5) | 2024 (6) | 2025 (7) | 2026 ² (8) | Projection (9) |
| 1 | Atmos Energy | 0.53x | 0.53x | 0.54x | 0.54x | 0.55x | 0.52x | 0.55x | 0.68x |
| 2 | Chesapeake Utilities | 0.64x | 0.82x | 1.23x | 0.84x | 0.61x | 0.63x | 0.67x | 0.92x |
| 3 | New Jersey Resources | 0.65x | 0.72x | 0.59x | 0.68x | 1.03x | 0.93x | 0.90x | 0.93x |
| 4 | NiSource Inc. | 0.65x | 0.69x | 0.55x | 0.43x | 0.54x | 0.75x | 0.69x | 0.76x |
| 5 | Northwest Nat. Gas | 0.75x | 0.61x | 0.60x | 0.68x | 0.63x | 0.68x | 0.67x | 0.65x |
| 6 | ONE Gas Inc. | 0.88x | 0.86x | 0.74x | 0.83x | 0.81x | 0.81x | 0.85x | 0.99x |
| 7 | Southwest Gas | 0.53x | 0.61x | 0.31x | 0.84x | 0.76x | 0.81x | 0.83x | 0.90x |
| 8 | Spire Inc. | 0.65x | 0.70x | 0.80x | 0.71x | 0.64x | 0.65x | 0.66x | 0.85x |
| 9 | UGI Corp. | 1.54x | 1.66x | 1.42x | 1.33x | 1.24x | 1.56x | 1.45x | 1.56x |
| 10 | Average | 0.76x | 0.80x | 0.75x | 0.76x | 0.76x | 0.81x | 0.81x | 0.91x |
| 11 | Median | 0.65x | 0.70x | 0.60x | 0.71x | 0.64x | 0.75x | 0.69x | 0.90x |

Sources:

¹ The Value Line Investment Survey, various report dates.

² The Value Line Investment Survey, May 23, 2025.

Notes:

Based on the projected Cash Flow per share and Capital Spending per share.

Kentucky Utilities Company / Louisville Gas & Electric Company

Natural Gas Utilities (Valuation Metrics)

| Line | Company | Percent Dividends to Book Value ¹ | | | | | | | | | | |
|------|----------------------|--|---------------------|-------|-------|-------|-------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | Atmos Energy | 4.90% | 4.13% | 4.11% | 4.04% | 4.07% | 4.19% | 4.38% | 4.97% | 5.00% | 5.53% | 5.94% |
| 2 | Chesapeake Utilities | 4.99% | 4.14% | 4.05% | 4.01% | 4.32% | 4.15% | 4.38% | 4.45% | 5.27% | 5.50% | 6.77% |
| 3 | New Jersey Resources | 7.27% | 7.27% | 7.73% | 7.65% | 7.63% | 7.92% | 6.77% | 7.21% | 7.64% | 7.63% | 6.45% |
| 4 | NiSource Inc. | 5.52% | 4.81% | 4.67% | 4.40% | 7.15% | 6.69% | 6.20% | 5.81% | 5.23% | 5.22% | 5.11% |
| 5 | Northwest Nat. Gas | 6.36% | 5.47% | 5.66% | 5.69% | 5.83% | 5.66% | 6.81% | 6.70% | 6.58% | 6.48% | 6.37% |
| 6 | ONE Gas Inc. | 4.57% | 4.99% | 5.09% | 5.32% | 5.31% | 5.04% | 4.94% | 3.92% | 2.44% | N/A | N/A |
| 7 | Southwest Gas | 4.53% | 4.57% | 4.83% | 5.20% | 5.17% | 4.80% | 4.85% | 5.07% | 4.35% | 3.92% | 3.79% |
| 8 | Spire Inc. | 5.85% | 5.66% | 5.83% | 5.73% | 5.58% | 5.56% | 5.31% | 5.07% | 5.52% | 6.46% | 7.16% |
| 9 | UGI Corp. | 5.78% | 5.89% | 7.46% | 7.35% | 5.02% | 5.34% | 5.92% | 5.55% | 5.19% | 5.51% | 6.03% |
| 10 | Average | 5.58% | 5.21% | 5.49% | 5.49% | 5.57% | 5.48% | 5.51% | 5.42% | 5.25% | 5.78% | 5.95% |
| 11 | Median | 5.31% | 4.99% | 5.09% | 5.32% | 5.31% | 5.34% | 5.31% | 5.07% | 5.23% | 5.52% | 6.20% |

| Line | Company | Dividends to Earnings Ratio ¹ | | | | | | | | | | |
|------|----------------------|--|---------------------|------|------|------|------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 12 | Atmos Energy | 0.55 | 0.48 | 0.47 | 0.49 | 0.49 | 0.49 | 0.49 | 0.50 | 0.57 | 0.63 | 0.65 |
| 13 | Chesapeake Utilities | 0.47 | 0.46 | 0.47 | 0.48 | 0.41 | 0.39 | 0.41 | 0.43 | 0.45 | 0.51 | 0.62 |
| 14 | New Jersey Resources | 0.55 | 0.55 | 0.58 | 0.58 | 0.58 | 0.63 | 0.54 | 0.58 | 0.52 | 0.54 | 0.53 |
| 15 | NiSource Inc. | 0.79 | 0.59 | 0.61 | 0.63 | 0.64 | 0.65 | 0.62 | 1.25 | 0.64 | 0.95 | 0.77 |
| 16 | Northwest Nat. Gas | 0.66 | 0.65 | 0.84 | 0.75 | 0.76 | 0.77 | 0.84 | 0.29 | 0.83 | 0.64 | 0.57 |
| 17 | ONE Gas Inc. | 0.57 | 0.62 | 0.68 | 0.63 | 0.61 | 0.60 | 0.57 | 0.54 | 0.41 | N/A | N/A |
| 18 | Southwest Gas | 0.59 | 0.71 | 0.90 | 1.16 | 0.80 | 0.63 | 0.56 | 0.56 | 0.44 | 0.46 | 0.50 |
| 19 | Spire Inc. | 0.69 | 0.78 | 0.72 | 0.75 | 0.69 | 0.52 | 0.97 | 0.60 | 0.73 | 0.58 | 0.59 |
| 20 | UGI Corp. | 0.45 | 0.44 | 0.49 | 0.52 | 0.49 | 0.46 | 0.46 | 0.44 | 0.49 | 0.40 | 0.40 |
| 21 | Average | 0.59 | 0.59 | 0.64 | 0.66 | 0.61 | 0.57 | 0.61 | 0.58 | 0.57 | 0.59 | 0.58 |
| 22 | Median | 0.58 | 0.59 | 0.61 | 0.63 | 0.61 | 0.60 | 0.56 | 0.54 | 0.52 | 0.56 | 0.58 |

| Line | Company | Cash Flow to Capital Spending Ratio ¹ | | | | | | | | | | |
|------|----------------------|--|---------------------|------|------|------|------|-----------------|-----------|-----------|-----------|-----------|
| | | 20-Year | | | | | | 3-Year Averages | | | | |
| | | Average | 2025 ^{2/a} | 2024 | 2023 | 2022 | 2021 | 2018-2020 | 2015-2017 | 2012-2014 | 2009-2011 | 2006-2008 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 23 | Atmos Energy | 0.64 | 0.52 | 0.58 | 0.53 | 0.54 | 0.58 | 0.53 | 0.60 | 0.60 | 0.74 | 0.86 |
| 24 | Chesapeake Utilities | 0.75 | 0.63 | 0.52 | 0.81 | 1.23 | 0.81 | 0.60 | 0.51 | 0.72 | 1.12 | 0.70 |
| 25 | New Jersey Resources | 1.17 | 0.93 | 0.87 | 0.82 | 0.59 | 0.62 | 0.69 | 0.66 | 1.58 | 1.60 | 1.97 |
| 26 | NiSource Inc. | 0.74 | 0.75 | 0.71 | 0.61 | 0.55 | 0.68 | 0.62 | 0.51 | 0.59 | 0.97 | 1.14 |
| 27 | Northwest Nat. Gas | 0.88 | 0.68 | 0.65 | 0.67 | 0.60 | 0.68 | 0.69 | 0.76 | 1.05 | 0.97 | 1.30 |
| 28 | ONE Gas Inc. | 0.83 | 0.81 | 0.74 | 0.77 | 0.74 | 0.86 | 0.85 | 0.88 | 0.79 | N/A | N/A |
| 29 | Southwest Gas | 0.81 | 0.81 | 0.67 | 0.68 | 0.31 | 0.86 | 0.59 | 0.78 | 0.98 | 1.16 | 0.78 |
| 30 | Spire Inc. | 0.99 | 0.65 | 0.60 | 0.69 | 0.80 | 0.75 | 0.54 | 0.87 | 0.90 | 1.69 | 1.45 |
| 31 | UGI Corp. | 1.46 | 1.56 | 1.52 | 1.18 | 1.42 | 1.32 | 1.48 | 1.37 | 1.46 | 1.39 | 1.68 |
| 32 | Average | 0.93 | 0.81 | 0.76 | 0.75 | 0.75 | 0.80 | 0.73 | 0.77 | 0.96 | 1.20 | 1.23 |
| 33 | Median | 0.84 | 0.75 | 0.67 | 0.69 | 0.60 | 0.75 | 0.62 | 0.76 | 0.90 | 1.14 | 1.22 |

Sources:

¹ Data for years 2019 and prior were retrieved from the Value Line Investment Survey Investment Analyzer Software, downloaded on June 18, 2021.

Data for the years 2020 - 2024 was retrieved from Value Line Investment Surveys.

² The Value Line Investment Survey, May 23, 2025.

Notes:

^a Based on the projected Dividends Declared per share and Book Value per share, published in The Value Line Investment Survey.

^b Based on the projected Dividends Declared per share and Earnings per share, published in The Value Line Investment Survey.

^c Based on the projected Cash Flow per share and Capital Spending per share, published in The Value Line Investment Survey.

Kentucky Utilities Company / Louisville Gas & Electric Company

Proxy Group

| <u>Line</u> | <u>Company</u> | <u>Credit Ratings¹</u> | | <u>Common Equity Ratios</u> | |
|-------------|---------------------------------------|-----------------------------------|-----------------------|-----------------------------|-------------------------------|
| | | <u>S&P</u> | <u>Moody's</u> | <u>MI¹</u> | <u>Value Line²</u> |
| | | (1) | (2) | (3) | (4) |
| 1 | Atmos Energy Corporation | A- | A2 | 59.9% | 60.7% |
| 2 | New Jersey Resources Corporation | N/A | A1 | 38.4% | 43.3% |
| 3 | NiSource Inc. | BBB+ | Baa2 | 35.2% | 46.0% |
| 4 | Northwest Natural Holding Company | A- | N/A | 41.4% | 45.2% |
| 5 | ONE Gas, Inc. | A- | A3 | 48.1% | 56.5% |
| 6 | Southwest Gas Holdings, Inc. | BBB- | Baa2 | 39.5% | 45.9% |
| 7 | Spire Inc. | BBB+ | Baa2 | 37.4% | 43.1% |
| 8 | Alliant Energy Corporation | BBB+ | Baa2 | 39.7% | 44.7% |
| 9 | Ameren Corporation | BBB+ | Baa1 | 39.0% | 45.3% |
| 10 | American Electric Power Company, Inc. | BBB+ | Baa2 | 36.9% | 42.4% |
| 11 | Duke Energy Corporation | BBB+ | Baa2 | 35.9% | 38.9% |
| 12 | Edison International | BBB | Baa2 | 25.1% | 27.1% |
| 13 | Entergy Corporation | BBB+ | Baa2 | 33.7% | 36.0% |
| 14 | Eversource Energy | BBB+ | Baa2 | 41.1% | 48.5% |
| 15 | IDACORP, Inc. | BBB | Baa2 | 52.0% | 52.2% |
| 16 | NorthWestern Corporation | BBB | Baa2 | 48.0% | 51.4% |
| 17 | OGE Energy Corp. | BBB+ | Baa1 | 45.5% | 49.2% |
| 18 | Pinnacle West Capital Corporation | BBB+ | Baa2 | 37.7% | 45.6% |
| 19 | Portland General Electric Company | BBB+ | A3 | 42.5% | 45.0% |
| 20 | The Southern Company | A- | Baa1 | 32.3% | 36.8% |
| 21 | Xcel Energy Inc. | BBB+ | Baa1 | 39.2% | 41.7% |
| 22 | Average Gas | BBB+ | A3 | 42.9% | 48.7% |
| 23 | Average Electric | BBB+ | Baa2 | 39.2% | 43.2% |
| 24 | Average Combined | BBB+ | Baa1 | 40.4% | 45.0% |
| 25 | KU/LG&E | A-³ | A3³ | | 52.9%⁴ |

Sources:

¹ S&P Global Market Intelligence, Downloaded on July 18, 2025.

² *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

³ S&P Capital IQ.

⁴ Direct Testimony of Dylan W. D'Ascendis, page 16.

Kentucky Utilities Company / Louisville Gas & Electric Company

Consensus Analysts' Growth Rates

| Line | Company | Zacks | | MI | | I/B/E/S | | Average of Growth Rates |
|------|---------------------------------------|---------------------------------|---------------------|---------------------------------|---------------------|---------------------------------|---------------------|-------------------------|
| | | Estimated Growth % ¹ | Number of Estimates | Estimated Growth % ² | Number of Estimates | Estimated Growth % ³ | Number of Estimates | |
| | | (1) | (2) | (3) | (4) | (5) | (6) | |
| 1 | Atmos Energy Corporation | 7.19% | N/A | 7.08% | 2 | 7.30% | N/A | 7.19% |
| 2 | New Jersey Resources Corporation | N/A | N/A | 7.90% | 2 | N/A | N/A | 7.90% |
| 3 | NiSource Inc. | 7.88% | N/A | 7.96% | 4 | 7.70% | N/A | 7.85% |
| 4 | Northwest Natural Holding Company | N/A | N/A | 5.75% | 2 | N/A | N/A | 5.75% |
| 5 | ONE Gas, Inc. | 5.56% | N/A | 5.84% | 2 | N/A | N/A | 5.70% |
| 6 | Southwest Gas Holdings, Inc. | 10.51% | N/A | 10.74% | 4 | 13.70% | N/A | 11.65% |
| 7 | Spire Inc. | 6.54% | N/A | 8.08% | 1 | N/A | N/A | 7.31% |
| 8 | Alliant Energy Corporation | 6.59% | N/A | 6.67% | 4 | 6.45% | N/A | 6.57% |
| 9 | Ameren Corporation | 7.86% | N/A | 7.60% | 6 | 8.90% | N/A | 8.12% |
| 10 | American Electric Power Company, Inc. | 6.43% | N/A | 6.82% | 4 | 6.60% | N/A | 6.62% |
| 11 | Duke Energy Corporation | 6.33% | N/A | 6.36% | 5 | 6.40% | N/A | 6.36% |
| 12 | Edison International | 7.00% | N/A | 8.90% | 2 | 10.40% | N/A | 8.77% |
| 13 | Entergy Corporation | 9.46% | N/A | 8.88% | 2 | 9.65% | N/A | 9.33% |
| 14 | Evergy, Inc. | 5.73% | N/A | 5.70% | 5 | 6.00% | N/A | 5.81% |
| 15 | IDACORP, Inc. | 8.12% | N/A | 8.55% | 3 | 7.90% | N/A | 8.19% |
| 16 | NorthWestern Corporation | 6.87% | N/A | 5.73% | 5 | 6.90% | N/A | 6.50% |
| 17 | OGE Energy Corp. | 6.32% | N/A | 6.74% | 4 | 5.60% | N/A | 6.22% |
| 18 | Pinnacle West Capital Corporation | 2.12% | N/A | 5.25% | 4 | 2.20% | N/A | 3.19% |
| 19 | Portland General Electric Company | 3.35% | N/A | 4.95% | 6 | 3.46% | N/A | 3.92% |
| 20 | The Southern Company | 6.77% | N/A | 6.97% | 3 | 6.90% | N/A | 6.88% |
| 21 | Xcel Energy Inc. | 7.52% | N/A | 7.95% | 7 | 8.80% | N/A | 8.09% |
| 22 | Average Gas | 7.54% | N/A | 7.62% | 4 | 9.57% | N/A | 7.62% |
| 23 | Average Electric | 6.46% | N/A | 6.93% | 4 | 6.87% | N/A | 6.75% |
| 24 | Average Combined | 6.74% | N/A | 7.16% | 4 | 7.34% | N/A | 7.04% |

Sources:

¹ Zacks, <http://www.zacks.com/>, downloaded on July 18, 2025.

² S&P Global Market Intelligence, <https://platform.mi.spglobal.com>, downloaded on July 18, 2025.

³ LSEG Workspace, <https://www.lseg.com/en/data-analytics/products/workspace>, downloaded on July 18, 2025

Kentucky Utilities Company / Louisville Gas & Electric Company

Constant Growth DCF Model (Consensus Analysts' Growth Rates)

| Line | Company | 13-Week AVG Stock Price ¹ (1) | Analysts' Growth ² (2) | Annualized Dividend ³ (3) | Nominal Yield (4) | Adjusted Yield (5) | Constant Growth DCF (6) |
|------|---------------------------------------|--|---|--|-------------------------|--------------------------|-------------------------------|
| 1 | Atmos Energy Corporation | \$155.40 | 7.19% | \$3.48 | 2.24% | 2.40% | 9.59% |
| 2 | New Jersey Resources Corporation | \$46.21 | 7.90% | \$1.80 | 3.89% | 4.20% | 12.10% |
| 3 | NiSource Inc. | \$39.37 | 7.85% | \$1.12 | 2.84% | 3.07% | 10.91% |
| 4 | Northwest Natural Holding Company | \$41.29 | 5.75% | \$1.96 | 4.75% | 5.02% | 10.77% |
| 5 | ONE Gas, Inc. | \$74.47 | 5.70% | \$2.68 | 3.60% | 3.80% | 9.50% |
| 6 | Southwest Gas Holdings, Inc. | \$73.10 | 11.65% | \$2.48 | 3.39% | 3.79% | 15.44% |
| 7 | Spire Inc. | \$74.28 | 7.31% | \$3.14 | 4.23% | 4.54% | 11.85% |
| 8 | Alliant Energy Corporation | \$61.27 | 6.57% | \$1.92 | 3.13% | 3.34% | 9.91% |
| 9 | Ameren Corporation | \$96.45 | 8.12% | \$2.84 | 2.94% | 3.18% | 11.30% |
| 10 | American Electric Power Company, Inc. | \$103.73 | 6.62% | \$3.72 | 3.59% | 3.82% | 10.44% |
| 11 | Duke Energy Corporation | \$117.56 | 6.36% | \$4.18 | 3.56% | 3.78% | 10.15% |
| 12 | Edison International | \$53.63 | 8.77% | \$3.31 | 6.17% | 6.71% | 15.48% |
| 13 | Entergy Corporation | \$82.50 | 9.33% | \$2.40 | 2.91% | 3.18% | 12.51% |
| 14 | Evergy, Inc. | \$67.43 | 5.81% | \$2.67 | 3.96% | 4.19% | 10.00% |
| 15 | IDACORP, Inc. | \$115.74 | 8.19% | \$3.44 | 2.97% | 3.22% | 11.41% |
| 16 | NorthWestern Corporation | \$54.17 | 6.50% | \$2.64 | 4.87% | 5.19% | 11.69% |
| 17 | OGE Energy Corp. | \$44.30 | 6.22% | \$1.69 | 3.80% | 4.04% | 10.26% |
| 18 | Pinnacle West Capital Corporation | \$90.87 | 3.19% | \$3.58 | 3.94% | 4.07% | 7.26% |
| 19 | Portland General Electric Company | \$41.43 | 3.92% | \$2.10 | 5.07% | 5.27% | 9.19% |
| 20 | The Southern Company | \$90.22 | 6.88% | \$2.96 | 3.28% | 3.51% | 10.39% |
| 21 | Xcel Energy Inc. | \$69.06 | 8.09% | \$2.28 | 3.30% | 3.57% | 11.66% |
| 22 | Average Gas | \$72.02 | 7.62% | \$2.38 | 3.56% | 3.83% | 11.45% |
| 23 | Median Gas | \$73.10 | 7.31% | \$2.48 | 3.60% | 3.80% | 10.91% |
| 24 | Average Electric | \$77.74 | 6.75% | \$2.84 | 3.82% | 4.08% | 10.83% |
| 25 | Median Electric | \$75.78 | 6.59% | \$2.76 | 3.57% | 3.80% | 10.41% |
| 26 | Average Combined | \$75.83 | 7.04% | \$2.69 | 3.74% | 3.99% | 11.04% |
| 27 | Median Combined | \$73.10 | 6.88% | \$2.67 | 3.59% | 3.80% | 10.77% |

Sources:

¹ S&P Global Intelligence, Downloaded on July 18, 2025.

² Exhibit MPG-4.

³ *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Payout Ratios

| Line | Company | Dividends Per Share | | Earnings Per Share | | Payout Ratio | |
|------|---------------------------------------|---------------------|---------------|--------------------|---------------|--------------|--------------|
| | | 2024 | Projected | 2024 | Projected | 2024 | Projected |
| | | (1) | (2) | (3) | (4) | (5) | (6) |
| 1 | Atmos Energy Corporation | \$3.22 | \$4.45 | \$6.83 | \$9.35 | 47.1% | 47.6% |
| 2 | New Jersey Resources Corporation | \$1.71 | \$2.20 | \$2.95 | \$3.90 | 58.0% | 56.4% |
| 3 | NiSource Inc. | \$1.06 | \$1.44 | \$1.75 | \$2.55 | 60.6% | 56.5% |
| 4 | Northwest Natural Holding Company | \$1.95 | \$2.00 | \$2.33 | \$3.45 | 83.7% | 58.0% |
| 5 | ONE Gas, Inc. | \$2.64 | \$2.90 | \$3.91 | \$5.25 | 67.5% | 55.2% |
| 6 | Southwest Gas Holdings, Inc. | \$2.48 | \$3.00 | \$2.76 | \$5.00 | 89.9% | 60.0% |
| 7 | Spire Inc. | \$3.02 | \$3.70 | \$4.19 | \$5.25 | 72.1% | 70.5% |
| 8 | Alliant Energy Corporation | \$1.92 | \$2.43 | \$2.69 | \$4.25 | 71.4% | 57.2% |
| 9 | Ameren Corporation | \$2.68 | \$3.57 | \$4.59 | \$6.60 | 58.4% | 54.1% |
| 10 | American Electric Power Company, Inc. | \$3.57 | \$4.31 | \$5.61 | \$7.70 | 63.6% | 56.0% |
| 11 | Duke Energy Corporation | \$4.14 | \$5.00 | \$5.90 | \$8.00 | 70.2% | 62.5% |
| 12 | Edison International | \$3.17 | \$4.15 | \$4.91 | \$7.00 | 64.6% | 59.3% |
| 13 | Entergy Corporation | \$2.30 | \$3.00 | \$2.45 | \$4.20 | 93.9% | 71.4% |
| 14 | Evergy, Inc. | \$2.60 | \$3.25 | \$3.80 | \$5.05 | 68.4% | 64.4% |
| 15 | IDACORP, Inc. | \$3.35 | \$4.20 | \$5.50 | \$7.10 | 60.9% | 59.2% |
| 16 | NorthWestern Corporation | \$2.60 | \$2.80 | \$3.27 | \$4.35 | 79.5% | 64.4% |
| 17 | OGE Energy Corp. | \$1.68 | \$1.79 | \$2.19 | \$2.95 | 76.7% | 60.7% |
| 18 | Pinnacle West Capital Corporation | \$3.55 | \$4.00 | \$5.24 | \$6.45 | 67.7% | 62.0% |
| 19 | Portland General Electric Company | \$1.98 | \$2.58 | \$3.14 | \$4.00 | 63.1% | 64.5% |
| 20 | The Southern Company | \$2.86 | \$3.10 | \$4.06 | \$5.60 | 70.4% | 55.4% |
| 21 | Xcel Energy Inc. | \$2.19 | \$3.00 | \$3.50 | \$5.00 | 62.6% | 60.0% |
| 22 | Average Gas | \$2.30 | \$2.81 | \$3.53 | \$4.96 | 68.4% | 57.7% |
| 23 | Average Electric | \$2.76 | \$3.37 | \$4.06 | \$5.59 | 69.4% | 60.8% |
| 24 | Average Combined | \$2.60 | \$3.18 | \$3.88 | \$5.38 | 69.1% | 59.8% |

Source:

The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Sustainable Growth Rate

| Line | Company | 3 to 5 Year Projections | | | | | | | | | | Sustainable Growth Rate |
|------|---------------------------------------|-------------------------|---------------|----------------|--------------|---------------|-------------|---------------|---------------|---------------|--------------|-------------------------|
| | | Dividends | Earnings | Book Value | Book Value | | Adjustment | Adjusted | Payout | Retention | Internal | |
| | | Per Share | Per Share | Per Share | Growth | ROE | Factor | ROE | Ratio | Rate | Growth Rate | |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| 1 | Atmos Energy Corporation | \$4.45 | \$9.35 | \$97.30 | 4.44% | 9.61% | 1.02 | 9.82% | 47.59% | 52.41% | 5.15% | 8.66% |
| 2 | New Jersey Resources Corporation | \$2.20 | \$3.90 | \$27.65 | 4.56% | 14.10% | 1.02 | 14.42% | 56.41% | 43.59% | 6.29% | 7.47% |
| 3 | NiSource Inc. | \$1.44 | \$2.55 | \$25.70 | 2.50% | 9.92% | 1.01 | 10.04% | 56.47% | 43.53% | 4.37% | 6.02% |
| 4 | Northwest Natural Holding Company | \$2.00 | \$3.45 | \$40.40 | 3.24% | 8.54% | 1.02 | 8.68% | 57.97% | 42.03% | 3.65% | 4.53% |
| 5 | ONE Gas, Inc. | \$2.90 | \$5.25 | \$56.60 | 1.77% | 9.28% | 1.01 | 9.36% | 55.24% | 44.76% | 4.19% | 5.57% |
| 6 | Southwest Gas Holdings, Inc. | \$3.00 | \$5.00 | \$58.65 | 2.68% | 8.53% | 1.01 | 8.64% | 60.00% | 40.00% | 3.46% | 3.83% |
| 7 | Spire Inc. | \$3.70 | \$5.25 | \$57.80 | 2.20% | 9.08% | 1.01 | 9.18% | 70.48% | 29.52% | 2.71% | 4.67% |
| 8 | Alliant Energy Corporation | \$2.43 | \$4.25 | \$31.90 | 3.17% | 13.32% | 1.02 | 13.53% | 57.18% | 42.82% | 5.79% | 5.82% |
| 9 | Ameren Corporation | \$3.57 | \$6.60 | \$52.65 | 4.24% | 12.54% | 1.02 | 12.80% | 54.09% | 45.91% | 5.87% | 7.53% |
| 10 | American Electric Power Company, Inc. | \$4.31 | \$7.70 | \$60.90 | 3.76% | 12.64% | 1.02 | 12.88% | 55.97% | 44.03% | 5.67% | 6.33% |
| 11 | Duke Energy Corporation | \$5.00 | \$8.00 | \$76.50 | 3.85% | 10.46% | 1.02 | 10.65% | 62.50% | 37.50% | 4.00% | 4.08% |
| 12 | Edison International | \$4.15 | \$7.00 | \$50.00 | 6.68% | 14.00% | 1.03 | 14.45% | 59.29% | 40.71% | 5.88% | 6.14% |
| 13 | Entergy Corporation | \$3.00 | \$4.20 | \$43.45 | 4.35% | 9.67% | 1.02 | 9.87% | 71.43% | 28.57% | 2.82% | 4.68% |
| 14 | Evergy, Inc. | \$3.25 | \$5.05 | \$47.50 | 1.81% | 10.63% | 1.01 | 10.73% | 64.36% | 35.64% | 3.82% | 3.82% |
| 15 | IDACORP, Inc. | \$4.20 | \$7.10 | \$72.25 | 3.20% | 9.83% | 1.02 | 9.98% | 59.15% | 40.85% | 4.08% | 4.73% |
| 16 | NorthWestern Corporation | \$2.80 | \$4.35 | \$53.55 | 2.82% | 8.12% | 1.01 | 8.24% | 64.37% | 35.63% | 2.93% | 3.07% |
| 17 | OGE Energy Corp. | \$1.79 | \$2.95 | \$26.25 | 2.80% | 11.24% | 1.01 | 11.39% | 60.68% | 39.32% | 4.48% | 4.48% |
| 18 | Pinnacle West Capital Corporation | \$4.00 | \$6.45 | \$70.20 | 4.36% | 9.19% | 1.02 | 9.38% | 62.02% | 37.98% | 3.56% | 4.15% |
| 19 | Portland General Electric Company | \$2.58 | \$4.00 | \$42.25 | 4.02% | 9.47% | 1.02 | 9.65% | 64.50% | 35.50% | 3.43% | 3.79% |
| 20 | The Southern Company | \$3.10 | \$5.60 | \$32.25 | 1.56% | 17.36% | 1.01 | 17.50% | 55.36% | 44.64% | 7.81% | 8.69% |
| 21 | Xcel Energy Inc. | \$3.00 | \$5.00 | \$43.70 | 5.15% | 11.44% | 1.03 | 11.73% | 60.00% | 40.00% | 4.69% | 5.42% |
| 22 | Average Gas | \$2.81 | \$4.96 | \$52.01 | 3.06% | 9.87% | 1.02 | 10.02% | 57.74% | 42.26% | 4.26% | 5.82% |
| 23 | Average Electric | \$3.37 | \$5.59 | \$50.24 | 3.70% | 11.42% | 1.02 | 11.63% | 60.78% | 39.22% | 4.63% | 5.20% |
| 24 | Average Combined | \$3.18 | \$5.38 | \$50.83 | 3.48% | 10.90% | 1.02 | 11.09% | 59.76% | 40.24% | 4.51% | 5.40% |

Sources and Notes:

Cols. (1), (2) and (3): *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

Col. (4): [Col. (3) / Page 2 Col. (2)] ^ (1/number of years projected) - 1.

Col. (5): Col. (2) / Col. (3).

Col. (6): [2 * (1 + Col. (4))] / (2 + Col. (4)).

Col. (7): Col. (6) * Col. (5).

Col. (8): Col. (1) / Col. (2).

Col. (9): 1 - Col. (8).

Col. (10): Col. (9) * Col. (7).

Col. (11): Col. (10) + Page 2 Col. (9).

Kentucky Utilities Company / Louisville Gas & Electric Company

Sustainable Growth Rate

| Line | Company | 13-Week Average Stock Price ¹ | 2024 Book Value Per Share ² | Market to Book Ratio | Common Shares Outstanding (in Millions) ² | | Growth (6) | S Factor ³ (7) | V Factor ⁴ (8) | S * V (9) |
|------|---------------------------------------|--|--|----------------------------|---|------------------|---------------|------------------------------|------------------------------|--------------|
| | | (1) | (2) | (3) | 2024 (4) | 3-5 Years (5) | | | | |
| 1 | Atmos Energy Corporation | \$155.40 | \$78.31 | 1.98 | \$155.26 | \$185.00 | 3.57% | 7.08% | 49.61% | 3.51% |
| 2 | New Jersey Resources Corporation | \$46.21 | \$22.12 | 2.09 | \$99.46 | \$105.00 | 1.09% | 2.28% | 52.14% | 1.19% |
| 3 | NiSource Inc. | \$39.37 | \$22.71 | 1.73 | \$469.82 | \$525.00 | 2.25% | 3.89% | 42.32% | 1.65% |
| 4 | Northwest Natural Holding Company | \$41.29 | \$34.45 | 1.20 | \$40.22 | \$50.00 | 4.45% | 5.33% | 16.57% | 0.88% |
| 5 | ONE Gas, Inc. | \$74.47 | \$51.85 | 1.44 | \$59.88 | \$70.00 | 3.17% | 4.56% | 30.37% | 1.38% |
| 6 | Southwest Gas Holdings, Inc. | \$73.10 | \$51.39 | 1.42 | \$71.78 | \$75.00 | 0.88% | 1.25% | 29.70% | 0.37% |
| 7 | Spire Inc. | \$74.28 | \$51.83 | 1.43 | \$57.70 | \$72.00 | 4.53% | 6.49% | 30.23% | 1.96% |
| 8 | Alliant Energy Corporation | \$61.27 | \$27.29 | 2.25 | \$256.69 | \$257.00 | 0.02% | 0.05% | 55.46% | 0.03% |
| 9 | Ameren Corporation | \$96.45 | \$42.78 | 2.25 | \$266.93 | \$285.00 | 1.32% | 2.97% | 55.65% | 1.65% |
| 10 | American Electric Power Company, Inc. | \$103.73 | \$50.63 | 2.05 | \$532.90 | \$550.00 | 0.63% | 1.30% | 51.19% | 0.66% |
| 11 | Duke Energy Corporation | \$117.56 | \$63.34 | 1.86 | \$776.00 | \$780.00 | 0.10% | 0.19% | 46.12% | 0.09% |
| 12 | Edison International | \$53.63 | \$36.18 | 1.48 | \$384.78 | \$395.00 | 0.53% | 0.78% | 32.53% | 0.25% |
| 13 | Entergy Corporation | \$82.50 | \$35.11 | 2.35 | \$429.58 | \$460.00 | 1.38% | 3.24% | 57.44% | 1.86% |
| 14 | Evergy, Inc. | \$67.43 | \$43.43 | 1.55 | \$229.98 | \$230.00 | 0.00% | 0.00% | 35.60% | 0.00% |
| 15 | IDACORP, Inc. | \$115.74 | \$61.73 | 1.88 | \$53.96 | \$56.00 | 0.74% | 1.40% | 46.67% | 0.65% |
| 16 | NorthWestern Corporation | \$54.17 | \$46.60 | 1.16 | \$61.32 | \$64.00 | 0.86% | 1.00% | 13.97% | 0.14% |
| 17 | OGE Energy Corp. | \$44.30 | \$22.87 | 1.94 | \$200.90 | \$200.20 | - 0.07% | - 0.14% | 48.38% | - 0.07% |
| 18 | Pinnacle West Capital Corporation | \$90.87 | \$56.71 | 1.60 | \$119.10 | \$125.00 | 0.97% | 1.56% | 37.59% | 0.59% |
| 19 | Portland General Electric Company | \$41.43 | \$34.70 | 1.19 | \$109.34 | \$120.00 | 1.88% | 2.24% | 16.25% | 0.36% |
| 20 | The Southern Company | \$90.22 | \$29.85 | 3.02 | \$1,096.00 | \$1,120.00 | 0.43% | 1.31% | 66.91% | 0.88% |
| 21 | Xcel Energy Inc. | \$69.06 | \$33.99 | 2.03 | \$574.37 | \$595.00 | 0.71% | 1.44% | 50.78% | 0.73% |
| 22 | Average Gas | \$72.02 | \$44.67 | 1.61 | 136.30 | 154.57 | 2.85% | 4.41% | 35.85% | 1.56% |
| 23 | Average Electric | \$77.74 | \$41.80 | 1.90 | 363.70 | 374.09 | 0.68% | 1.24% | 43.90% | 0.56% |
| 24 | Average Combined | \$75.83 | \$42.76 | 1.81 | 287.90 | 300.91 | 1.40% | 2.30% | 41.21% | 0.89% |

Sources and Notes:

¹ S&P Global Intelligence, Downloaded on July 18, 2025.

² *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

³ Expected Growth in the Number of Shares, Column (3) * Column (6).

⁴ Expected Profit of Stock Investment, [1 - 1 / Column (3)].

Kentucky Utilities Company / Louisville Gas & Electric Company

Constant Growth DCF Model (Sustainable Growth Rate)

| <u>Line</u> | <u>Company</u> | <u>13-Week AVG Stock Price¹</u> (1) | <u>Sustainable Growth²</u> (2) | <u>Annualized Dividend³</u> (3) | <u>Adjusted Yield</u> (4) | <u>Constant Growth DCF</u> (5) |
|-------------|---------------------------------------|---|--|---|----------------------------------|---------------------------------------|
| 1 | Atmos Energy Corporation | \$155.40 | 8.66% | \$3.48 | 2.43% | 11.09% |
| 2 | New Jersey Resources Corporation | \$46.21 | 7.47% | \$1.80 | 4.19% | 11.66% |
| 3 | NiSource Inc. | \$39.37 | 6.02% | \$1.12 | 3.02% | 9.04% |
| 4 | Northwest Natural Holding Company | \$41.29 | 4.53% | \$1.96 | 4.96% | 9.49% |
| 5 | ONE Gas, Inc. | \$74.47 | 5.57% | \$2.68 | 3.80% | 9.37% |
| 6 | Southwest Gas Holdings, Inc. | \$73.10 | 3.83% | \$2.48 | 3.52% | 7.35% |
| 7 | Spire Inc. | \$74.28 | 4.67% | \$3.14 | 4.42% | 9.10% |
| 8 | Alliant Energy Corporation | \$61.27 | 5.82% | \$1.92 | 3.32% | 9.14% |
| 9 | Ameren Corporation | \$96.45 | 7.53% | \$2.84 | 3.17% | 10.70% |
| 10 | American Electric Power Company, Inc. | \$103.73 | 6.33% | \$3.72 | 3.81% | 10.15% |
| 11 | Duke Energy Corporation | \$117.56 | 4.08% | \$4.18 | 3.70% | 7.78% |
| 12 | Edison International | \$53.63 | 6.14% | \$3.31 | 6.55% | 12.69% |
| 13 | Entergy Corporation | \$82.50 | 4.68% | \$2.40 | 3.05% | 7.73% |
| 14 | Evergy, Inc. | \$67.43 | 3.82% | \$2.67 | 4.11% | 7.94% |
| 15 | IDACORP, Inc. | \$115.74 | 4.73% | \$3.44 | 3.11% | 7.84% |
| 16 | NorthWestern Corporation | \$54.17 | 3.07% | \$2.64 | 5.02% | 8.10% |
| 17 | OGE Energy Corp. | \$44.30 | 4.48% | \$1.69 | 3.97% | 8.45% |
| 18 | Pinnacle West Capital Corporation | \$90.87 | 4.15% | \$3.58 | 4.10% | 8.25% |
| 19 | Portland General Electric Company | \$41.43 | 3.79% | \$2.10 | 5.26% | 9.05% |
| 20 | The Southern Company | \$90.22 | 8.69% | \$2.96 | 3.57% | 12.26% |
| 21 | Xcel Energy Inc. | \$69.06 | 5.42% | \$2.28 | 3.48% | 8.90% |
| 22 | Average Gas | \$72.02 | 5.82% | \$2.38 | 3.76% | 9.59% |
| 23 | Median Gas | \$73.10 | 5.57% | \$2.48 | 3.80% | 9.37% |
| 24 | Average Electric | \$77.74 | 5.20% | \$2.84 | 4.02% | 9.21% |
| 25 | Median Electric | \$75.78 | 4.70% | \$2.76 | 3.76% | 8.68% |
| 26 | Average Combined | \$75.83 | 5.40% | \$2.69 | 3.93% | 9.34% |
| 27 | Median Combined | \$73.10 | 4.73% | \$2.67 | 3.80% | 9.05% |

Sources:

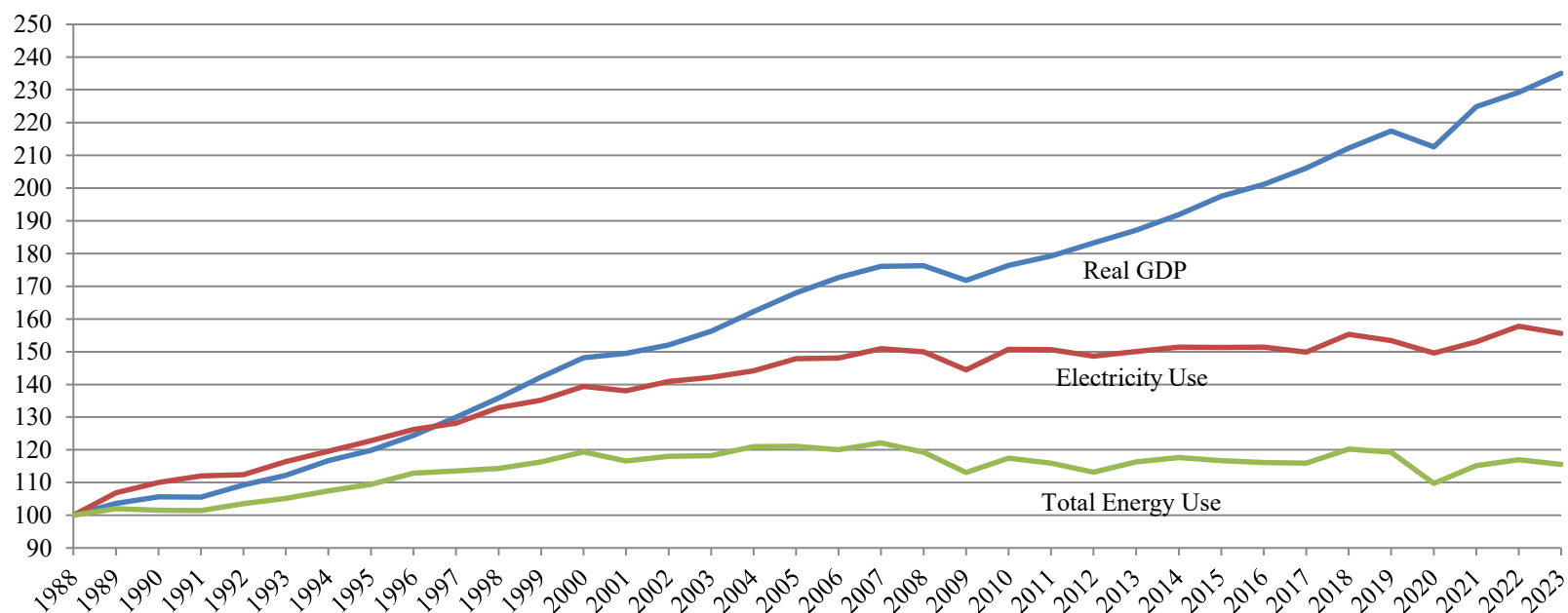
¹ S&P Global Intelligence, Downloaded on July 18, 2025.

² Exhibit MPG-7.

³ *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Electricity Sales Are Linked to U.S. Economic Growth



Note:

1988 represents the base year. Graph depicts increases or decreases from the base year.

Sources:

U.S. Energy Information Administration
Federal Reserve Bank of St. Louis

Kentucky Utilities Company / Louisville Gas & Electric Company

Multi-Stage Growth DCF Model

| Line | Company | 13-Week AVG | Annualized | First Stage | Second Stage Growth | | | | | Third Stage | Multi-Stage |
|------|---------------------------------------|--------------------------|-----------------------|---------------------|---------------------|--------------|--------------|--------------|--------------|---------------------|--------------|
| | | Stock Price ¹ | Dividend ² | Growth ³ | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Growth ⁴ | Growth DCF |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1 | Atmos Energy Corporation | \$155.40 | \$3.48 | 7.19% | 6.68% | 6.16% | 5.65% | 5.13% | 4.62% | 4.10% | 6.94% |
| 2 | New Jersey Resources Corporation | \$46.21 | \$1.80 | 7.90% | 7.27% | 6.63% | 6.00% | 5.37% | 4.73% | 4.10% | 9.21% |
| 3 | NiSource Inc. | \$39.37 | \$1.12 | 7.85% | 7.22% | 6.60% | 5.97% | 5.35% | 4.72% | 4.10% | 7.85% |
| 4 | Northwest Natural Holding Company | \$41.29 | \$1.96 | 5.75% | 5.48% | 5.20% | 4.93% | 4.65% | 4.38% | 4.10% | 9.56% |
| 5 | ONE Gas, Inc. | \$74.47 | \$2.68 | 5.70% | 5.43% | 5.17% | 4.90% | 4.63% | 4.37% | 4.10% | 8.24% |
| 6 | Southwest Gas Holdings, Inc. | \$73.10 | \$2.48 | 11.65% | 10.39% | 9.13% | 7.87% | 6.62% | 5.36% | 4.10% | 9.66% |
| 7 | Spire Inc. | \$74.28 | \$3.14 | 7.31% | 6.78% | 6.24% | 5.71% | 5.17% | 4.64% | 4.10% | 9.45% |
| 8 | Alliant Energy Corporation | \$61.27 | \$1.92 | 6.57% | 6.16% | 5.75% | 5.34% | 4.92% | 4.51% | 4.10% | 7.91% |
| 9 | Ameren Corporation | \$96.45 | \$2.84 | 8.12% | 7.45% | 6.78% | 6.11% | 5.44% | 4.77% | 4.10% | 8.05% |
| 10 | American Electric Power Company, Inc. | \$103.73 | \$3.72 | 6.62% | 6.20% | 5.78% | 5.36% | 4.94% | 4.52% | 4.10% | 8.47% |
| 11 | Duke Energy Corporation | \$117.56 | \$4.18 | 6.36% | 5.99% | 5.61% | 5.23% | 4.85% | 4.48% | 4.10% | 8.37% |
| 12 | Edison International | \$53.63 | \$3.31 | 8.77% | 7.99% | 7.21% | 6.43% | 5.66% | 4.88% | 4.10% | 12.45% |
| 13 | Entergy Corporation | \$82.50 | \$2.40 | 9.33% | 8.46% | 7.59% | 6.71% | 5.84% | 4.97% | 4.10% | 8.30% |
| 14 | Eversource Energy | \$67.43 | \$2.67 | 5.81% | 5.52% | 5.24% | 4.95% | 4.67% | 4.38% | 4.10% | 8.68% |
| 15 | IDACORP, Inc. | \$115.74 | \$3.44 | 8.19% | 7.51% | 6.83% | 6.15% | 5.46% | 4.78% | 4.10% | 8.10% |
| 16 | NorthWestern Corporation | \$54.17 | \$2.64 | 6.50% | 6.10% | 5.70% | 5.30% | 4.90% | 4.50% | 4.10% | 9.96% |
| 17 | OGE Energy Corp. | \$44.30 | \$1.69 | 6.22% | 5.87% | 5.51% | 5.16% | 4.81% | 4.45% | 4.10% | 8.62% |
| 18 | Pinnacle West Capital Corporation | \$90.87 | \$3.58 | 3.19% | 3.34% | 3.49% | 3.65% | 3.80% | 3.95% | 4.10% | 7.97% |
| 19 | Portland General Electric Company | \$41.43 | \$2.10 | 3.92% | 3.95% | 3.98% | 4.01% | 4.04% | 4.07% | 4.10% | 9.32% |
| 20 | The Southern Company | \$90.22 | \$2.96 | 6.88% | 6.42% | 5.95% | 5.49% | 5.03% | 4.56% | 4.10% | 8.17% |
| 21 | Xcel Energy Inc. | \$69.06 | \$2.28 | 8.09% | 7.43% | 6.76% | 6.10% | 5.43% | 4.77% | 4.10% | 8.51% |
| 22 | Average Gas | \$72.02 | \$2.38 | 7.62% | 7.03% | 6.45% | 5.86% | 5.27% | 4.69% | 4.10% | 8.70% |
| 23 | Median Gas | \$73.10 | \$2.48 | 7.31% | 6.78% | 6.24% | 5.71% | 5.17% | 4.64% | 4.10% | 9.21% |
| 24 | Average Electric | \$77.74 | \$2.84 | 6.75% | 6.31% | 5.87% | 5.43% | 4.98% | 4.54% | 4.10% | 8.78% |
| 25 | Median Electric | \$75.78 | \$2.76 | 6.59% | 6.18% | 5.76% | 5.35% | 4.93% | 4.52% | 4.10% | 8.42% |
| 26 | Average Combined | \$75.83 | \$2.69 | 7.04% | 6.55% | 6.06% | 5.57% | 5.08% | 4.59% | 4.10% | 8.75% |
| 27 | Median Combined | \$73.10 | \$2.67 | 6.88% | 6.42% | 5.95% | 5.49% | 5.03% | 4.56% | 4.10% | 8.47% |

Sources:

¹ S&P Global Intelligence, Downloaded on July 18, 2025.

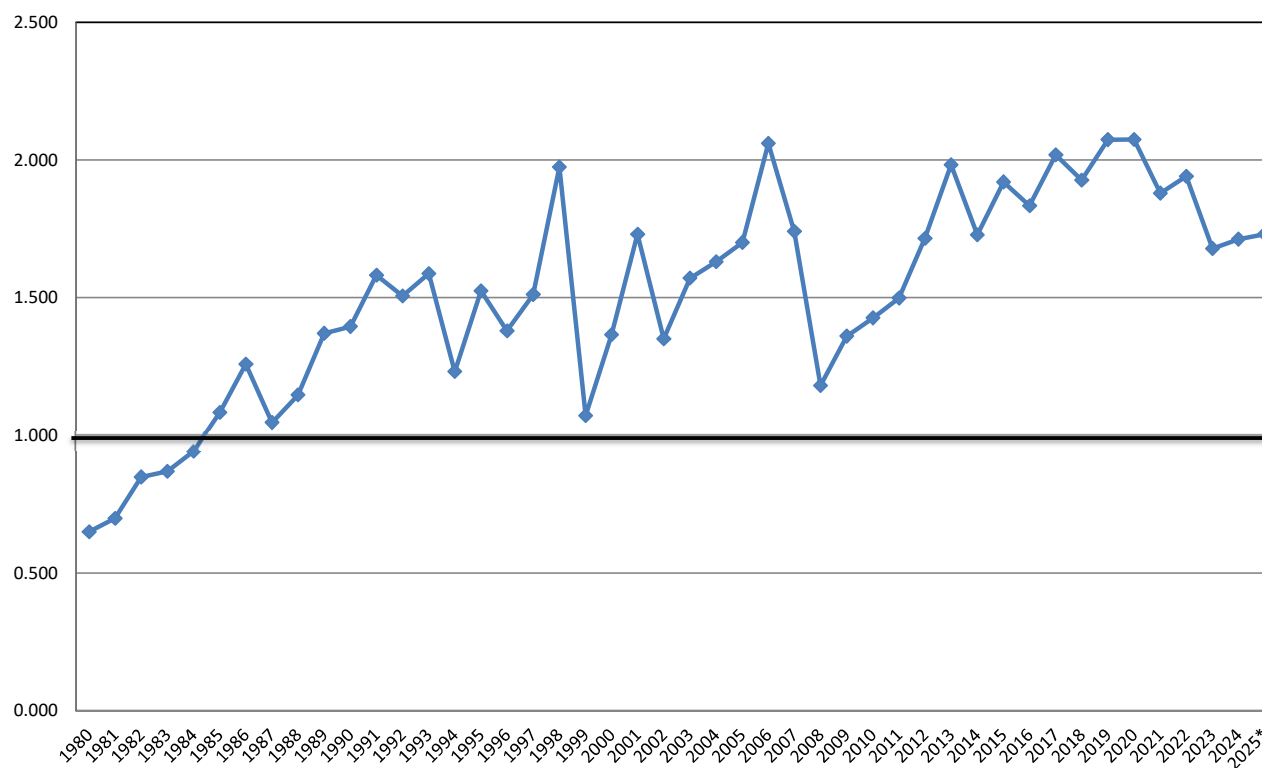
² The Value Line Investment Survey, May 9, June 6, and July 18, 2025.

³ Exhibit MPG-4.

⁴ Blue Chip Financial Forecasts, June 2, 2025 at page 14.

Kentucky Utilities Company / Louisville Gas & Electric Company

Common Stock Market/Book Ratio



Source:

1980 - 2000: Mergent Public Utility Manual.

2001 - 2015: AUS Utility Reports, multiple dates.

2016 - 2024: Value Line Investment Survey, multiple dates.

* Value Line Investment Survey Reports, May 9, May 23, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Equity Risk Premium - Treasury Bond

| <u>Line</u> | <u>Year</u> | <u>Authorized Electric Returns¹</u> (1) | <u>30 yr. Treasury Bond Yield²</u> (2) | <u>Indicated Risk Premium</u> (3) | <u>Rolling 5 - Year Average</u> (4) | <u>Rolling 10 - Year Average</u> (5) |
|-------------|-------------------|---|--|--|--|---|
| 1 | 1986 | 13.93% | 7.80% | 6.13% | | |
| 2 | 1987 | 12.99% | 8.58% | 4.41% | | |
| 3 | 1988 | 12.79% | 8.96% | 3.83% | | |
| 4 | 1989 | 12.97% | 8.45% | 4.52% | | |
| 5 | 1990 | 12.70% | 8.61% | 4.09% | 4.60% | |
| 6 | 1991 | 12.55% | 8.14% | 4.41% | 4.25% | |
| 7 | 1992 | 12.09% | 7.67% | 4.42% | 4.26% | |
| 8 | 1993 | 11.41% | 6.60% | 4.81% | 4.45% | |
| 9 | 1994 | 11.34% | 7.37% | 3.97% | 4.34% | |
| 10 | 1995 | 11.55% | 6.88% | 4.67% | 4.46% | 4.53% |
| 11 | 1996 | 11.39% | 6.70% | 4.69% | 4.51% | 4.38% |
| 12 | 1997 | 11.40% | 6.61% | 4.79% | 4.59% | 4.42% |
| 13 | 1998 | 11.66% | 5.58% | 6.08% | 4.84% | 4.65% |
| 14 | 1999 | 10.77% | 5.87% | 4.90% | 5.03% | 4.68% |
| 15 | 2000 | 11.43% | 5.94% | 5.49% | 5.19% | 4.82% |
| 16 | 2001 | 11.09% | 5.49% | 5.60% | 5.37% | 4.94% |
| 17 | 2002 | 11.16% | 5.43% | 5.73% | 5.56% | 5.07% |
| 18 | 2003 | 10.97% | 4.96% | 6.01% | 5.55% | 5.19% |
| 19 | 2004 | 10.75% | 5.05% | 5.70% | 5.71% | 5.37% |
| 20 | 2005 | 10.54% | 4.65% | 5.89% | 5.79% | 5.49% |
| 21 | 2006 | 10.34% | 4.87% | 5.47% | 5.76% | 5.57% |
| 22 | 2007 | 10.31% | 4.83% | 5.48% | 5.71% | 5.64% |
| 23 | 2008 | 10.37% | 4.28% | 6.09% | 5.73% | 5.64% |
| 24 | 2009 | 10.52% | 4.07% | 6.45% | 5.88% | 5.79% |
| 25 | 2010 | 10.29% | 4.25% | 6.04% | 5.90% | 5.85% |
| 26 | 2011 | 10.19% | 3.91% | 6.28% | 6.07% | 5.91% |
| 27 | 2012 | 10.01% | 2.92% | 7.09% | 6.39% | 6.05% |
| 28 | 2013 | 9.81% | 3.45% | 6.36% | 6.44% | 6.09% |
| 29 | 2014 | 9.75% | 3.34% | 6.41% | 6.44% | 6.16% |
| 30 | 2015 | 9.60% | 2.84% | 6.76% | 6.58% | 6.24% |
| 31 | 2016 | 9.60% | 2.60% | 7.00% | 6.72% | 6.40% |
| 32 | 2017 | 9.68% | 2.90% | 6.79% | 6.66% | 6.53% |
| 33 | 2018 | 9.55% | 3.11% | 6.44% | 6.68% | 6.56% |
| 34 | 2019 | 9.64% | 2.58% | 7.06% | 6.81% | 6.62% |
| 35 | 2020 | 9.39% | 1.56% | 7.83% | 7.02% | 6.80% |
| 36 | 2021 | 9.39% | 2.05% | 7.34% | 7.09% | 6.91% |
| 37 | 2022 | 9.52% | 3.12% | 6.41% | 7.01% | 6.84% |
| 38 | 2023 | 9.62% | 4.09% | 5.53% | 6.83% | 6.76% |
| 39 | 2024 | 9.78% | 4.41% | 5.37% | 6.49% | 6.65% |
| 40 | 2025 ³ | 9.72% | 4.71% | 5.01% | 5.93% | 6.48% |
| 41 | Average | 10.81% | 5.13% | 5.68% | 5.74% | 5.77% |
| 42 | Minimum | | | | 4.25% | 4.38% |
| 43 | Maximum | | | | 7.09% | 6.91% |

Sources:

¹ *Regulatory Research Associates, Inc.*, Regulatory Focus, Major Rate Case Decisions, Jan. 1997 p. 5, and Jan. 2011 p. 3.
S&P Global Market Intelligence, RRA Regulatory Focus, Major Electric Rate Case Decisions in the US,
 January - March 2025, April 25, 2025 at page 3.
 2006 - 2025 Authorized Returns exclude limited issue rider cases.

² St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.

The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

³ Data represents January - March, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Equity Risk Premium - Treasury Bond

| <u>Line</u> | <u>Year</u> | <u>Authorized Gas Returns¹</u> | <u>30 yr. Treasury Bond Yield²</u> | <u>Indicated Risk Premium</u> | <u>Rolling 5 - Year Average</u> | <u>Rolling 10 - Year Average</u> |
|-------------|-------------------|---|---|---------------------------------------|---|--|
| | | (1) | (2) | (3) | (4) | (5) |
| 1 | 1986 | 13.46% | 7.80% | 5.66% | | |
| 2 | 1987 | 12.74% | 8.58% | 4.16% | | |
| 3 | 1988 | 12.85% | 8.96% | 3.89% | | |
| 4 | 1989 | 12.88% | 8.45% | 4.43% | | |
| 5 | 1990 | 12.67% | 8.61% | 4.06% | 4.44% | |
| 6 | 1991 | 12.46% | 8.14% | 4.32% | 4.17% | |
| 7 | 1992 | 12.01% | 7.67% | 4.34% | 4.21% | |
| 8 | 1993 | 11.35% | 6.60% | 4.75% | 4.38% | |
| 9 | 1994 | 11.35% | 7.37% | 3.98% | 4.29% | |
| 10 | 1995 | 11.43% | 6.88% | 4.55% | 4.39% | 4.42% |
| 11 | 1996 | 11.19% | 6.70% | 4.49% | 4.42% | 4.30% |
| 12 | 1997 | 11.29% | 6.61% | 4.68% | 4.49% | 4.35% |
| 13 | 1998 | 11.51% | 5.58% | 5.93% | 4.73% | 4.55% |
| 14 | 1999 | 10.66% | 5.87% | 4.79% | 4.89% | 4.59% |
| 15 | 2000 | 11.39% | 5.94% | 5.45% | 5.07% | 4.73% |
| 16 | 2001 | 10.95% | 5.49% | 5.46% | 5.26% | 4.84% |
| 17 | 2002 | 11.03% | 5.43% | 5.60% | 5.45% | 4.97% |
| 18 | 2003 | 10.99% | 4.96% | 6.03% | 5.47% | 5.10% |
| 19 | 2004 | 10.59% | 5.05% | 5.54% | 5.62% | 5.25% |
| 20 | 2005 | 10.46% | 4.65% | 5.81% | 5.69% | 5.38% |
| 21 | 2006 | 10.40% | 4.87% | 5.53% | 5.70% | 5.48% |
| 22 | 2007 | 10.22% | 4.83% | 5.39% | 5.66% | 5.55% |
| 23 | 2008 | 10.39% | 4.28% | 6.11% | 5.68% | 5.57% |
| 24 | 2009 | 10.22% | 4.07% | 6.15% | 5.80% | 5.71% |
| 25 | 2010 | 10.15% | 4.25% | 5.90% | 5.81% | 5.75% |
| 26 | 2011 | 9.92% | 3.91% | 6.01% | 5.91% | 5.81% |
| 27 | 2012 | 9.94% | 2.92% | 7.02% | 6.24% | 5.95% |
| 28 | 2013 | 9.68% | 3.45% | 6.23% | 6.26% | 5.97% |
| 29 | 2014 | 9.78% | 3.34% | 6.44% | 6.32% | 6.06% |
| 30 | 2015 | 9.60% | 2.84% | 6.76% | 6.49% | 6.15% |
| 31 | 2016 | 9.54% | 2.60% | 6.94% | 6.68% | 6.29% |
| 32 | 2017 | 9.63% | 2.90% | 6.74% | 6.62% | 6.43% |
| 33 | 2018 | 9.59% | 3.11% | 6.48% | 6.67% | 6.47% |
| 34 | 2019 | 9.71% | 2.58% | 7.13% | 6.81% | 6.56% |
| 35 | 2020 | 9.46% | 1.56% | 7.90% | 7.04% | 6.76% |
| 36 | 2021 | 9.56% | 2.05% | 7.51% | 7.15% | 6.91% |
| 37 | 2022 | 9.52% | 3.12% | 6.41% | 7.08% | 6.85% |
| 38 | 2023 | 9.60% | 4.09% | 5.51% | 6.89% | 6.78% |
| 39 | 2024 | 9.65% | 4.41% | 5.25% | 6.51% | 6.66% |
| 40 | 2025 ³ | 9.73% | 4.71% | 5.02% | 5.94% | 6.49% |
| 41 | Average | 10.74% | 5.13% | 5.61% | 5.67% | 5.70% |
| 42 | Minimum | | | | 4.17% | 4.30% |
| 43 | Maximum | | | | 7.15% | 6.91% |

Sources:

¹ *Regulatory Research Associates, Inc.*, Regulatory Focus, Major Rate Case Decisions, Jan. 1997 p. 5, and Jan. 2011 p. 3.

S&P Global Market Intelligence, RRA Regulatory Focus, Major Electric Rate Case Decisions in the US, January - March 2025, April 25, 2025 at page 3.

² St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.

The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

³ Data represents January - March, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Equity Risk Premium - Utility Bond

| <u>Line</u> | <u>Year</u> | <u>Authorized Electric Returns¹</u> (1) | <u>Average "A" Rated Utility Bond Yield²</u> (2) | <u>Indicated Risk Premium</u> (3) | <u>Rolling 5 - Year Average</u> (4) | <u>Rolling 10 - Year Average</u> (5) |
|-------------|-------------------|---|--|--|--|---|
| 1 | 1986 | 13.93% | 9.58% | 4.35% | | |
| 2 | 1987 | 12.99% | 10.10% | 2.89% | | |
| 3 | 1988 | 12.79% | 10.49% | 2.30% | | |
| 4 | 1989 | 12.97% | 9.77% | 3.20% | | |
| 5 | 1990 | 12.70% | 9.86% | 2.84% | 3.12% | |
| 6 | 1991 | 12.55% | 9.36% | 3.19% | 2.88% | |
| 7 | 1992 | 12.09% | 8.69% | 3.40% | 2.99% | |
| 8 | 1993 | 11.41% | 7.59% | 3.82% | 3.29% | |
| 9 | 1994 | 11.34% | 8.31% | 3.03% | 3.26% | |
| 10 | 1995 | 11.55% | 7.89% | 3.66% | 3.42% | 3.27% |
| 11 | 1996 | 11.39% | 7.75% | 3.64% | 3.51% | 3.20% |
| 12 | 1997 | 11.40% | 7.60% | 3.80% | 3.59% | 3.29% |
| 13 | 1998 | 11.66% | 7.04% | 4.62% | 3.75% | 3.52% |
| 14 | 1999 | 10.77% | 7.62% | 3.15% | 3.77% | 3.52% |
| 15 | 2000 | 11.43% | 8.24% | 3.19% | 3.68% | 3.55% |
| 16 | 2001 | 11.09% | 7.76% | 3.33% | 3.62% | 3.56% |
| 17 | 2002 | 11.16% | 7.37% | 3.79% | 3.61% | 3.60% |
| 18 | 2003 | 10.97% | 6.58% | 4.39% | 3.57% | 3.66% |
| 19 | 2004 | 10.75% | 6.16% | 4.59% | 3.86% | 3.82% |
| 20 | 2005 | 10.54% | 5.65% | 4.89% | 4.20% | 3.94% |
| 21 | 2006 | 10.34% | 6.07% | 4.27% | 4.39% | 4.00% |
| 22 | 2007 | 10.31% | 6.07% | 4.24% | 4.48% | 4.04% |
| 23 | 2008 | 10.37% | 6.53% | 3.84% | 4.37% | 3.97% |
| 24 | 2009 | 10.52% | 6.04% | 4.48% | 4.34% | 4.10% |
| 25 | 2010 | 10.29% | 5.46% | 4.83% | 4.33% | 4.26% |
| 26 | 2011 | 10.19% | 5.04% | 5.15% | 4.51% | 4.45% |
| 27 | 2012 | 10.01% | 4.13% | 5.88% | 4.84% | 4.66% |
| 28 | 2013 | 9.81% | 4.48% | 5.33% | 5.13% | 4.75% |
| 29 | 2014 | 9.75% | 4.28% | 5.47% | 5.33% | 4.84% |
| 30 | 2015 | 9.60% | 4.12% | 5.49% | 5.46% | 4.90% |
| 31 | 2016 | 9.60% | 3.93% | 5.67% | 5.57% | 5.04% |
| 32 | 2017 | 9.68% | 4.00% | 5.68% | 5.53% | 5.18% |
| 33 | 2018 | 9.55% | 4.25% | 5.30% | 5.52% | 5.33% |
| 34 | 2019 | 9.64% | 3.77% | 5.87% | 5.60% | 5.47% |
| 35 | 2020 | 9.39% | 3.02% | 6.38% | 5.78% | 5.62% |
| 36 | 2021 | 9.39% | 3.11% | 6.28% | 5.90% | 5.73% |
| 37 | 2022 | 9.52% | 4.72% | 4.80% | 5.73% | 5.63% |
| 38 | 2023 | 9.62% | 5.54% | 4.08% | 5.48% | 5.50% |
| 39 | 2024 | 9.78% | 5.54% | 4.24% | 5.15% | 5.38% |
| 40 | 2025 ³ | 9.72% | 5.77% | 3.95% | 4.67% | 5.22% |
| 41 | Average | 10.81% | 6.48% | 4.33% | 4.39% | 4.42% |
| 42 | Minimum | | | | 2.88% | 3.20% |
| 43 | Maximum | | | | 5.90% | 5.73% |

Sources:

¹ *Regulatory Research Associates, Inc.*, Regulatory Focus, Major Rate Case Decisions, Jan. 1997 p. 5, and Jan. 2011 p. 3.

S&P Global Market Intelligence, RRA Regulatory Focus, Major Electric Rate Case Decisions in the US, January - March 2025, April 25, 2025 at page 3.

2006 - 2025 Authorized Returns exclude limited issue rider cases.

² St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.

The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

³ Data represents January - March, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Equity Risk Premium - Utility Bond

| <u>Line</u> | <u>Year</u> | <u>Authorized Gas Returns¹</u> (1) | <u>Average "A" Rated Utility Bond Yield²</u> (2) | <u>Indicated Risk Premium</u> (3) | <u>Rolling 5 - Year Average</u> (4) | <u>Rolling 10 - Year Average</u> (5) |
|-------------|-------------------|--|--|--|--|---|
| 1 | 1986 | 13.46% | 9.58% | 3.88% | | |
| 2 | 1987 | 12.74% | 10.10% | 2.64% | | |
| 3 | 1988 | 12.85% | 10.49% | 2.36% | | |
| 4 | 1989 | 12.88% | 9.77% | 3.11% | | |
| 5 | 1990 | 12.67% | 9.86% | 2.81% | 2.96% | |
| 6 | 1991 | 12.46% | 9.36% | 3.10% | 2.80% | |
| 7 | 1992 | 12.01% | 8.69% | 3.32% | 2.94% | |
| 8 | 1993 | 11.35% | 7.59% | 3.76% | 3.22% | |
| 9 | 1994 | 11.35% | 8.31% | 3.04% | 3.21% | |
| 10 | 1995 | 11.43% | 7.89% | 3.54% | 3.35% | 3.16% |
| 11 | 1996 | 11.19% | 7.75% | 3.44% | 3.42% | 3.11% |
| 12 | 1997 | 11.29% | 7.60% | 3.69% | 3.49% | 3.22% |
| 13 | 1998 | 11.51% | 7.04% | 4.47% | 3.64% | 3.43% |
| 14 | 1999 | 10.66% | 7.62% | 3.04% | 3.64% | 3.42% |
| 15 | 2000 | 11.39% | 8.24% | 3.15% | 3.56% | 3.45% |
| 16 | 2001 | 10.95% | 7.76% | 3.19% | 3.51% | 3.46% |
| 17 | 2002 | 11.03% | 7.37% | 3.66% | 3.50% | 3.50% |
| 18 | 2003 | 10.99% | 6.58% | 4.41% | 3.49% | 3.56% |
| 19 | 2004 | 10.59% | 6.16% | 4.43% | 3.77% | 3.70% |
| 20 | 2005 | 10.46% | 5.65% | 4.81% | 4.10% | 3.83% |
| 21 | 2006 | 10.40% | 6.07% | 4.33% | 4.33% | 3.92% |
| 22 | 2007 | 10.22% | 6.07% | 4.15% | 4.43% | 3.96% |
| 23 | 2008 | 10.39% | 6.53% | 3.86% | 4.32% | 3.90% |
| 24 | 2009 | 10.22% | 6.04% | 4.18% | 4.27% | 4.02% |
| 25 | 2010 | 10.15% | 5.46% | 4.69% | 4.24% | 4.17% |
| 26 | 2011 | 9.92% | 5.04% | 4.88% | 4.35% | 4.34% |
| 27 | 2012 | 9.94% | 4.13% | 5.81% | 4.68% | 4.55% |
| 28 | 2013 | 9.68% | 4.48% | 5.20% | 4.95% | 4.63% |
| 29 | 2014 | 9.78% | 4.28% | 5.50% | 5.22% | 4.74% |
| 30 | 2015 | 9.60% | 4.12% | 5.49% | 5.38% | 4.81% |
| 31 | 2016 | 9.54% | 3.93% | 5.61% | 5.52% | 4.94% |
| 32 | 2017 | 9.63% | 4.00% | 5.63% | 5.49% | 5.08% |
| 33 | 2018 | 9.59% | 4.25% | 5.34% | 5.51% | 5.23% |
| 34 | 2019 | 9.71% | 3.77% | 5.94% | 5.60% | 5.41% |
| 35 | 2020 | 9.46% | 3.02% | 6.44% | 5.79% | 5.58% |
| 36 | 2021 | 9.56% | 3.11% | 6.45% | 5.96% | 5.74% |
| 37 | 2022 | 9.52% | 4.72% | 4.80% | 5.80% | 5.64% |
| 38 | 2023 | 9.60% | 5.54% | 4.06% | 5.54% | 5.53% |
| 39 | 2024 | 9.65% | 5.54% | 4.11% | 5.17% | 5.39% |
| 40 | 2025 ³ | 9.73% | 5.77% | 3.96% | 4.68% | 5.23% |
| 41 | Average | 10.74% | 6.48% | 4.26% | 4.33% | 4.34% |
| 42 | Minimum | | | | 2.80% | 3.11% |
| 43 | Maximum | | | | 5.96% | 5.74% |

Sources:

¹ *Regulatory Research Associates, Inc.*, Regulatory Focus, Major Rate Case Decisions, Jan. 1997 p. 5, and Jan. 2011 p. 3.
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January - March 2025, April 25, 2025 at page 3.

² St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.

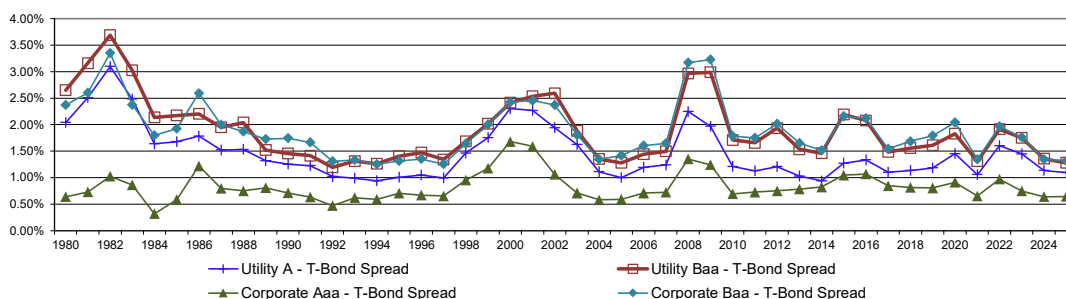
The yields from 2002 to 2005 represent the 20-Year Treasury yields obtained from the Federal Reserve Bank.

³ Data represents January - March, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Bond Yield Spreads

| Line | Year | T-Bond Yield ¹ (1) | Public Utility Bond | | | | Corporate Bond | | | | Utility to Corporate | |
|------|-------------------|-------------------------------------|-----------------------|-------------------------|---------------------------|-----------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------|-------------------------|
| | | | A ² (2) | Baa ² (3) | A-T-Bond Spread (4) | Baa-T-Bond Spread (5) | Aaa ³ (6) | Baa ³ (7) | Aaa-T-Bond Spread (8) | Baa-T-Bond Spread (9) | Baa Spread (10) | A-Aaa Spread (11) |
| 1 | 1980 | 11.30% | 13.34% | 13.95% | 2.04% | 2.65% | 11.94% | 13.67% | 0.64% | 2.37% | 0.28% | 1.40% |
| 2 | 1981 | 13.44% | 15.95% | 16.60% | 2.51% | 3.16% | 14.17% | 16.04% | 0.73% | 2.60% | 0.56% | 1.78% |
| 3 | 1982 | 12.76% | 15.86% | 16.45% | 3.10% | 3.69% | 13.79% | 16.11% | 1.03% | 3.35% | 0.34% | 2.07% |
| 4 | 1983 | 11.18% | 13.66% | 14.20% | 2.48% | 3.02% | 12.04% | 13.55% | 0.86% | 2.38% | 0.65% | 1.62% |
| 5 | 1984 | 12.39% | 14.03% | 14.53% | 1.64% | 2.14% | 12.71% | 14.19% | 0.32% | 1.80% | 0.34% | 1.32% |
| 6 | 1985 | 10.79% | 12.47% | 12.96% | 1.68% | 2.17% | 11.37% | 12.72% | 0.58% | 1.93% | 0.24% | 1.10% |
| 7 | 1986 | 7.80% | 9.58% | 10.00% | 1.78% | 2.20% | 9.02% | 10.39% | 1.22% | 2.59% | -0.39% | 0.56% |
| 8 | 1987 | 8.58% | 10.10% | 10.53% | 1.52% | 1.95% | 9.38% | 10.58% | 0.80% | 2.00% | -0.05% | 0.72% |
| 9 | 1988 | 8.96% | 10.49% | 11.00% | 1.53% | 2.04% | 9.71% | 10.83% | 0.75% | 1.87% | 0.17% | 0.78% |
| 10 | 1989 | 8.45% | 9.77% | 9.97% | 1.32% | 1.52% | 9.26% | 10.18% | 0.81% | 1.73% | -0.21% | 0.51% |
| 11 | 1990 | 8.61% | 9.86% | 10.06% | 1.25% | 1.45% | 9.32% | 10.36% | 0.71% | 1.75% | -0.30% | 0.54% |
| 12 | 1991 | 8.14% | 9.36% | 9.55% | 1.22% | 1.41% | 8.77% | 9.80% | 0.63% | 1.67% | -0.25% | 0.59% |
| 13 | 1992 | 7.67% | 8.69% | 8.86% | 1.02% | 1.19% | 8.14% | 8.98% | 0.47% | 1.31% | -0.12% | 0.55% |
| 14 | 1993 | 6.60% | 7.59% | 7.91% | 0.99% | 1.31% | 7.22% | 7.93% | 0.62% | 1.33% | -0.02% | 0.37% |
| 15 | 1994 | 7.37% | 8.31% | 8.63% | 0.94% | 1.26% | 7.96% | 8.62% | 0.59% | 1.25% | 0.01% | 0.35% |
| 16 | 1995 | 6.88% | 7.89% | 8.29% | 1.01% | 1.41% | 7.59% | 8.20% | 0.71% | 1.32% | 0.09% | 0.30% |
| 17 | 1996 | 6.70% | 7.75% | 8.17% | 1.05% | 1.47% | 7.37% | 8.05% | 0.67% | 1.35% | 0.12% | 0.38% |
| 18 | 1997 | 6.61% | 7.60% | 7.95% | 0.99% | 1.34% | 7.26% | 7.86% | 0.66% | 1.26% | 0.09% | 0.34% |
| 19 | 1998 | 5.58% | 7.04% | 7.26% | 1.46% | 1.68% | 6.53% | 7.22% | 0.95% | 1.64% | 0.04% | 0.51% |
| 20 | 1999 | 5.87% | 7.62% | 7.88% | 1.75% | 2.01% | 7.04% | 7.87% | 1.18% | 2.01% | 0.01% | 0.58% |
| 21 | 2000 | 5.94% | 8.24% | 8.36% | 2.30% | 2.42% | 7.62% | 8.36% | 1.68% | 2.42% | -0.01% | 0.62% |
| 22 | 2001 | 5.49% | 7.76% | 8.03% | 2.27% | 2.54% | 7.08% | 7.95% | 1.59% | 2.45% | 0.08% | 0.68% |
| 23 | 2002 | 5.43% | 7.37% | 8.02% | 1.94% | 2.59% | 6.49% | 7.80% | 1.06% | 2.37% | 0.22% | 0.88% |
| 24 | 2003 | 4.96% | 6.58% | 6.84% | 1.62% | 1.89% | 5.67% | 6.77% | 0.71% | 1.81% | 0.08% | 0.91% |
| 25 | 2004 | 5.05% | 6.16% | 6.40% | 1.11% | 1.35% | 5.63% | 6.39% | 0.58% | 1.35% | 0.00% | 0.53% |
| 26 | 2005 | 4.65% | 5.65% | 5.93% | 1.00% | 1.28% | 5.24% | 6.06% | 0.59% | 1.42% | -0.14% | 0.41% |
| 27 | 2006 | 4.87% | 6.07% | 6.32% | 1.20% | 1.44% | 5.58% | 6.48% | 0.71% | 1.61% | -0.16% | 0.48% |
| 28 | 2007 | 4.83% | 6.07% | 6.33% | 1.24% | 1.50% | 5.56% | 6.48% | 0.72% | 1.65% | -0.15% | 0.52% |
| 29 | 2008 | 4.28% | 6.53% | 7.25% | 2.25% | 2.97% | 5.63% | 7.45% | 1.35% | 3.17% | -0.20% | 0.90% |
| 30 | 2009 | 4.07% | 6.04% | 7.06% | 1.97% | 2.99% | 5.31% | 7.30% | 1.24% | 3.23% | -0.24% | 0.73% |
| 31 | 2010 | 4.25% | 5.46% | 5.96% | 1.21% | 1.71% | 4.94% | 6.04% | 0.69% | 1.79% | -0.08% | 0.52% |
| 32 | 2011 | 3.91% | 5.04% | 5.57% | 1.13% | 1.66% | 4.64% | 5.66% | 0.73% | 1.75% | -0.10% | 0.40% |
| 33 | 2012 | 2.92% | 4.13% | 4.86% | 1.21% | 1.93% | 3.67% | 4.94% | 0.75% | 2.01% | -0.08% | 0.46% |
| 34 | 2013 | 3.45% | 4.48% | 4.98% | 1.03% | 1.54% | 4.24% | 5.10% | 0.79% | 1.65% | -0.12% | 0.24% |
| 35 | 2014 | 3.34% | 4.28% | 4.80% | 0.94% | 1.46% | 4.16% | 4.85% | 0.82% | 1.51% | -0.05% | 0.12% |
| 36 | 2015 | 2.84% | 4.12% | 5.03% | 1.27% | 2.19% | 3.89% | 5.00% | 1.05% | 2.16% | 0.03% | 0.23% |
| 37 | 2016 | 2.60% | 3.93% | 4.68% | 1.34% | 2.08% | 3.67% | 4.72% | 1.07% | 2.12% | -0.04% | 0.27% |
| 38 | 2017 | 2.90% | 4.00% | 4.38% | 1.10% | 1.48% | 3.74% | 4.44% | 0.85% | 1.55% | -0.06% | 0.26% |
| 39 | 2018 | 3.11% | 4.25% | 4.67% | 1.14% | 1.56% | 3.93% | 4.80% | 0.82% | 1.69% | -0.13% | 0.32% |
| 40 | 2019 | 2.58% | 3.77% | 4.19% | 1.19% | 1.61% | 3.39% | 4.38% | 0.81% | 1.79% | -0.18% | 0.38% |
| 41 | 2020 | 1.56% | 3.02% | 3.39% | 1.45% | 1.83% | 2.48% | 3.60% | 0.91% | 2.04% | -0.21% | 0.54% |
| 42 | 2021 | 2.05% | 3.11% | 3.36% | 1.06% | 1.31% | 2.71% | 3.40% | 0.66% | 1.35% | -0.04% | 0.40% |
| 43 | 2022 | 3.12% | 4.72% | 5.03% | 1.61% | 1.91% | 4.09% | 5.08% | 0.97% | 1.97% | -0.05% | 0.64% |
| 44 | 2023 | 4.09% | 5.54% | 5.84% | 1.45% | 1.75% | 4.84% | 5.85% | 0.75% | 1.76% | -0.01% | 0.70% |
| 45 | 2024 | 4.41% | 5.54% | 5.76% | 1.14% | 1.36% | 5.04% | 5.75% | 0.64% | 1.35% | 0.01% | 0.50% |
| 46 | 2025 ⁴ | 4.77% | 5.87% | 6.05% | 1.10% | 1.28% | 5.42% | 6.09% | 0.65% | 1.32% | -0.04% | 0.45% |
| 47 | Average | 6.02% | 7.49% | 7.91% | 1.47% | 1.88% | 6.85% | 7.91% | 0.83% | 1.89% | 0.00% | 0.64% |

Yield Spreads
Treasury Vs. Corporate & Treasury Vs. Utility

Sources:

¹ St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.² The utility yields for the period 1980-2009 were obtained from Mergent Public Utility Manual, Mergent Weekly News Reports, 2003.

The utility yields for the period 2001-2009 were obtained from the Mergent Bond Record.

The utility yields for the period 2010-2025 were obtained from the Mergent Bond Record.

³ The corporate yields for the period 1980-2009 were obtained from the St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>.

The corporate yields from 2010-2025 were obtained from the Mergent Bond Record.

⁴ Data represents January - June, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

3-Month Treasury and Utility Bond Yields

| <u>Line</u> | <u>Date</u> | <u>Treasury Bond Yield¹</u> (1) | <u>"A" Rated Utility Bond Yield²</u> (2) | <u>"Baa" Rated Utility Bond Yield²</u> (3) |
|-------------|---|---|--|--|
| 1 | June-25 | 4.89% | 5.93% | 6.12% |
| 2 | May-25 | 4.90% | 6.05% | 6.23% |
| 3 | April-25 | 4.71% | 5.91% | 6.11% |
| 4 | 3-Month Average | 4.83% | 5.96% | 6.15% |
| 5 | Unadjusted Stock Yield³ | 3.59% | | |
| | <u>Spreads</u> | | | |
| 6 | Utility vs. Treasury Bond | | 1.13% | 1.32% |
| 7 | Utility Bond vs. Stock | 1.25% | 2.38% | 2.57% |

Sources:

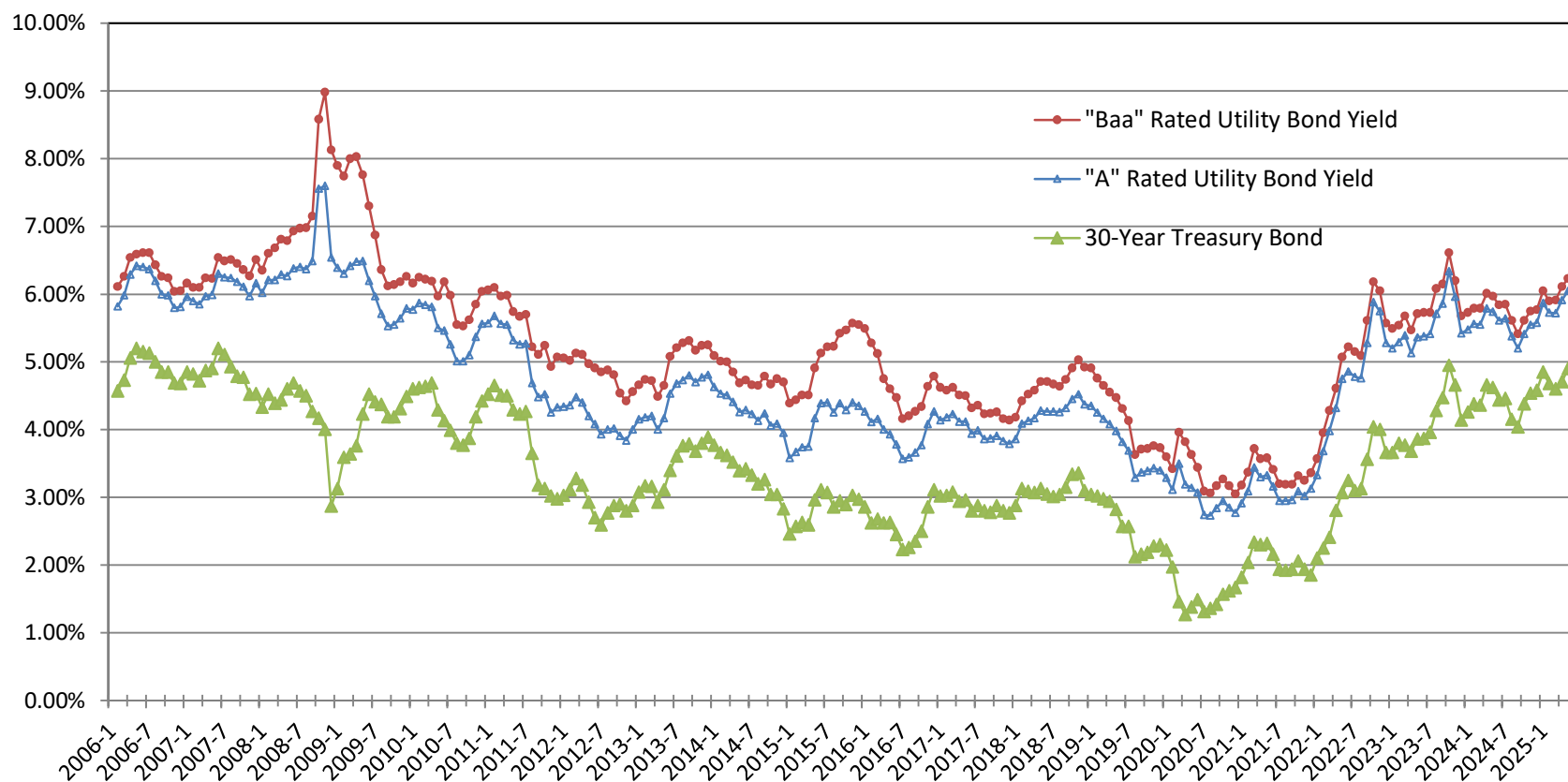
¹ St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org>.

² Mergent Bond Record.

³ Exhibit MPG-5, column 4.

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Trends in Bond Yields



Sources:

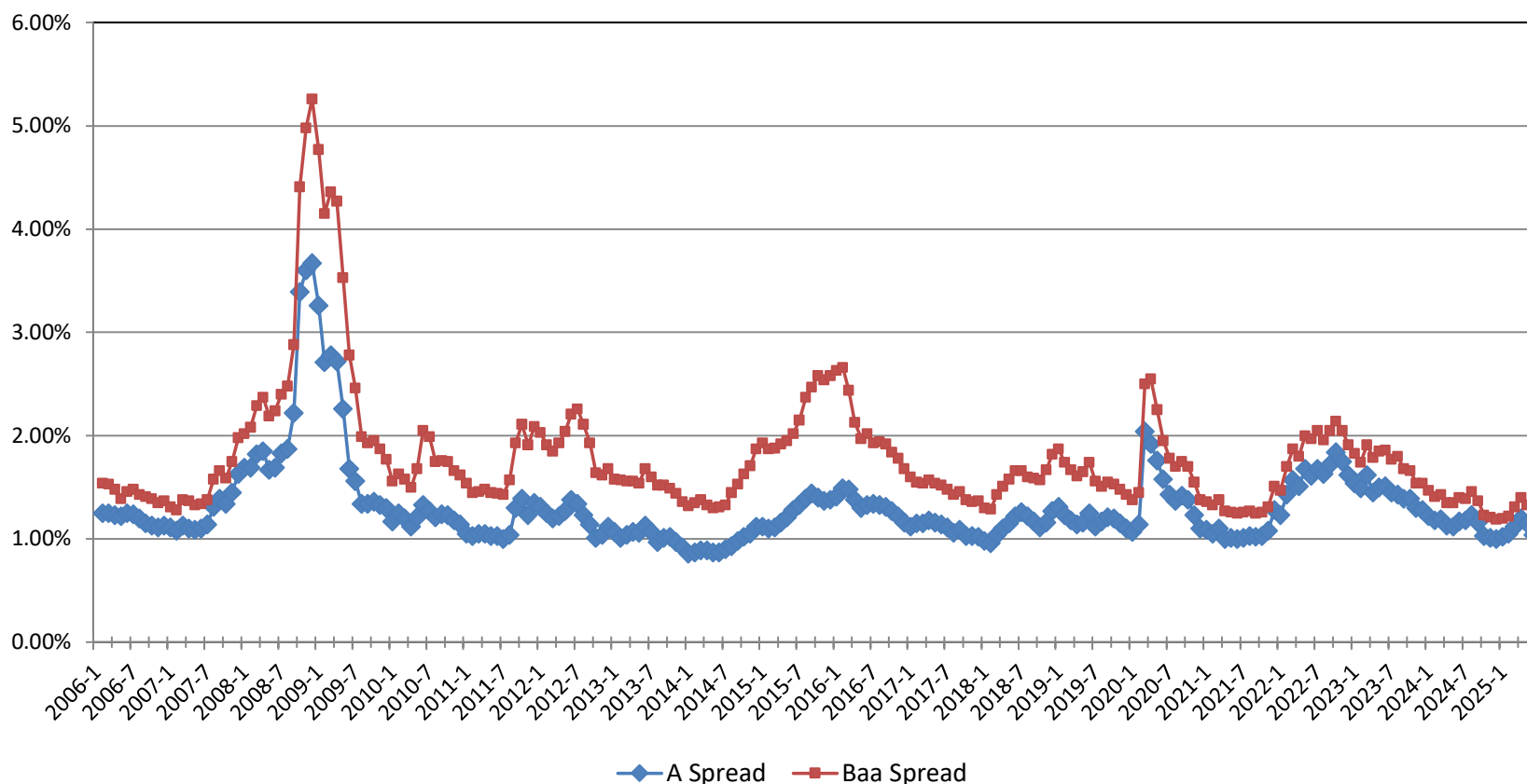
Mergent Bond Record.

www.moodys.com, Bond Yields and Key Indicators.

St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>

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Yield Spread Between Utility Bonds and 30-Year Treasury Bonds



Sources:

Mergent Bond Record.

www.moodys.com, Bond Yields and Key Indicators.

St. Louis Federal Reserve: Economic Research, <http://research.stlouisfed.org/>

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line Beta

| <u>Line</u> | <u>Company</u> | <u>Beta</u> ¹ (1) |
|-------------|---------------------------------------|---------------------------------|
| 1 | Atmos Energy Corporation | 0.75 |
| 2 | New Jersey Resources Corporation | 0.85 |
| 3 | NiSource Inc. | 0.85 |
| 4 | Northwest Natural Holding Company | 0.80 |
| 5 | ONE Gas, Inc. | 0.80 |
| 6 | Southwest Gas Holdings, Inc. | 0.80 |
| 7 | Spire Inc. | 0.80 |
| 8 | Alliant Energy Corporation | 0.80 |
| 9 | Ameren Corporation | 0.80 |
| 10 | American Electric Power Company, Inc. | 0.70 |
| 11 | Duke Energy Corporation | 0.70 |
| 12 | Edison International | 0.90 |
| 13 | Entergy Corporation | 0.80 |
| 14 | Evergy, Inc. | 0.75 |
| 15 | IDACORP, Inc. | 0.70 |
| 16 | NorthWestern Corporation | 0.75 |
| 17 | OGE Energy Corp. | 0.85 |
| 18 | Pinnacle West Capital Corporation | 0.75 |
| 19 | Portland General Electric Company | 0.75 |
| 20 | The Southern Company | 0.75 |
| 21 | Xcel Energy Inc. | 0.70 |
| 22 | Average Gas | 0.81 |
| 23 | Average Electric | 0.76 |
| 24 | Average Combined | 0.78 |

Source:

¹ *The Value Line Investment Survey*, May 9, June 6, and July 18, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line
Historical Betas

| Line | Company | Long-Term | | 5-Year COVID Betas | | | | | | | | | | | | | | | | | | | | |
|------|---------------------------------------|----------------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | Average ¹ | 2Q25 | 1Q25 | 4Q24 | 3Q24 | 2Q24 | 1Q24 | 4Q23 | 3Q23 | 2Q23 | 1Q23 | 4Q22 | 3Q22 | 2Q22 | 1Q22 | 4Q21 | 3Q21 | 2Q21 | 1Q21 | 4Q20 | 3Q20 | 2Q20 | 1Q20 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) |
| 1 | Atmos Energy Corporation | 0.76 | 0.75 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.55 |
| 2 | New Jersey Resources Corporation | 0.86 | 0.85 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.90 | 0.90 | 0.65 |
| 3 | NISource Inc. | 0.78 | 0.85 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.55 |
| 4 | Northwest Natural Holding Company | 0.74 | 0.80 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.55 |
| 5 | ONE Gas, Inc. | 0.76 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.60 |
| 6 | Southwest Gas Holdings, Inc. | 0.84 | 0.80 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.65 |
| 7 | Spire Inc. | 0.76 | 0.80 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 1.00 | 0.80 | 0.80 | 0.60 |
| 8 | Alliant Energy Corporation | 0.78 | 0.80 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.55 |
| 9 | Ameren Corporation | 0.75 | 0.80 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.50 |
| 10 | American Electric Power Company, Inc. | 0.70 | 0.70 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.50 |
| 11 | Duke Energy Corporation | 0.71 | 0.70 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.45 |
| 12 | Edison International | 0.79 | 0.90 | 1.05 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.55 | 0.55 |
| 13 | Entergy Corporation | 0.79 | 0.80 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.90 | 0.95 | 0.95 | 0.95 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.60 |
| 14 | Eversource Energy, Inc. | 0.94 | 0.75 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.05 | NMF |
| 15 | IDACORP, Inc. | 0.75 | 0.75 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.50 | 0.55 |
| 16 | NorthWestern Corporation | 0.79 | 0.80 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.55 | 0.60 |
| 17 | OGE Energy Corp. | 0.96 | 0.85 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.10 | 1.05 | 1.05 | 0.70 |
| 18 | Pinnacle West Capital Corporation | 0.77 | 0.80 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.45 | 0.50 |
| 19 | Portland General Electric Company | 0.78 | 0.90 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.55 | 0.55 | 0.55 |
| 20 | The Southern Company | 0.73 | 0.75 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.50 |
| 21 | Xcel Energy Inc. | 0.69 | 0.75 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.45 | 0.50 | 0.50 |
| 22 | Average Gas | 0.78 | 0.81 | 0.92 | 0.91 | 0.89 | 0.89 | 0.88 | 0.88 | 0.86 | 0.84 | 0.86 | 0.85 | 0.84 | 0.84 | 0.86 | 0.87 | 0.87 | 0.87 | 0.86 | 0.88 | 0.84 | 0.84 | 0.59 |
| 23 | Median Gas | 0.76 | 0.80 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.60 | 0.60 |
| 24 | Average Electric | 0.78 | 0.78 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.87 | 0.88 | 0.88 | 0.88 | 0.87 | 0.89 | 0.90 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.73 | 0.54 |
| 25 | Median Electric | 0.77 | 0.80 | 0.95 | 0.95 | 0.95 | 0.93 | 0.93 | 0.90 | 0.90 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.90 | 0.93 | 0.90 | 0.90 | 0.88 | 0.85 | 0.85 | 0.78 | 0.55 |
| 26 | Average Combined | 0.78 | 0.79 | 0.94 | 0.93 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.86 | 0.87 | 0.87 | 0.87 | 0.86 | 0.88 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.86 | 0.76 | 0.56 |
| 27 | Median Combined | 0.77 | 0.80 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.80 | 0.55 | 0.55 |

Source: Value Line Software Analyzer

¹Average of historical Q3 2014 through Q2 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line
Historical Betas

| Line | Company | 4Q19 | 3Q19 | 2Q19 | 1Q19 | 4Q18 | 3Q18 | 2Q18 | 1Q18 | 4Q17 | 3Q17 | 2Q17 | 1Q17 | 4Q16 | 3Q16 | 2Q16 | 1Q16 | 4Q15 | 3Q15 | 2Q15 | 1Q15 | 4Q14 | 3Q14 |
|------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) |
| 1 | Atmos Energy Corporation | 0.60 | 0.60 | 0.65 | 0.60 | 0.60 | 0.60 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 |
| 2 | New Jersey Resources Corporation | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.80 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 |
| 3 | NiSource Inc. | 0.55 | 0.55 | 0.55 | 0.55 | 0.50 | 0.55 | 0.60 | 0.60 | NMF | 0.65 | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | 0.85 | 0.85 | 0.85 | 0.80 |
| 4 | Northwest Natural Holding Company | 0.60 | 0.60 | 0.60 | 0.65 | 0.60 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 5 | ONE Gas, Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 6 | Southwest Gas Holdings, Inc. | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.80 | 0.75 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| 7 | Spire Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 8 | Alliant Energy Corporation | 0.60 | 0.60 | 0.60 | 0.65 | 0.60 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| 9 | Ameren Corporation | 0.55 | 0.55 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| 10 | American Electric Power Company, Inc. | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 11 | Duke Energy Corporation | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.50 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| 12 | Edison International | 0.60 | 0.60 | 0.60 | 0.55 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| 13 | Entergy Corporation | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 |
| 14 | Evergy, Inc. | NMF | NMF | NMF | NMF | NMF | NMF | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 15 | IDACORP, Inc. | 0.55 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| 16 | NorthWestern Corporation | 0.60 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 |
| 17 | OGE Energy Corp. | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 |
| 18 | Pinnacle West Capital Corporation | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 19 | Portland General Electric Company | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 |
| 20 | The Southern Company | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.55 | 0.65 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.55 | 0.60 | 0.55 | 0.55 | 0.60 |
| 21 | Xcel Energy Inc. | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.65 |
| 22 | Average Gas | 0.64 | 0.64 | 0.64 | 0.64 | 0.63 | 0.65 | 0.71 | 0.69 | 0.71 | 0.73 | 0.71 | 0.72 | 0.72 | 0.73 | 0.73 | 0.75 | 0.75 | 0.79 | 0.79 | 0.79 | 0.78 | 0.78 |
| 23 | Average Electric | 0.57 | 0.58 | 0.58 | 0.58 | 0.60 | 0.63 | 0.66 | 0.68 | 0.68 | 0.67 | 0.67 | 0.68 | 0.68 | 0.70 | 0.72 | 0.73 | 0.72 | 0.72 | 0.73 | 0.72 | 0.73 | 0.72 |
| 24 | Average Combined | 0.60 | 0.60 | 0.61 | 0.60 | 0.61 | 0.64 | 0.68 | 0.69 | 0.69 | 0.68 | 0.69 | 0.69 | 0.69 | 0.71 | 0.73 | 0.74 | 0.73 | 0.74 | 0.75 | 0.74 | 0.74 | 0.74 |

Source: Value Line Software Analyzer

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line Electric Industry
Historical Betas

| Line | Company | Average | 2Q25 | 1Q25 | 4Q24 | 3Q24 | 2Q24 | 1Q24 | 4Q23 | 3Q23 | 2Q23 | 1Q23 | 4Q22 | 3Q22 | 2Q22 | 1Q22 | 4Q21 | 3Q21 | 2Q21 | 1Q21 | 4Q20 | 3Q20 | 2Q20 | 1Q20 |
|----------|--|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) |
| Electric | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLETE, Inc. | 0.82 | 0.80 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.60 |
| 2 | Alliant Energy Corporation | 0.78 | 0.80 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.55 |
| 3 | Ameren Corporation | 0.75 | 0.80 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.50 |
| 4 | American Electric Power Company, Inc. | 0.70 | 0.70 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.50 |
| 5 | Avangrid, Inc. | 0.70 | N/A | N/A | 0.95 | 0.95 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | N/A | 0.85 | 0.80 | 0.80 | 0.40 |
| 6 | Avista Corporation | 0.81 | 0.75 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.95 | 0.60 | 0.60 |
| 7 | Black Hills Corporation | 0.92 | 0.90 | 1.05 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 1.00 | 0.65 | 0.70 |
| 8 | CenterPoint Energy, Inc. | 0.97 | 0.85 | 1.10 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.10 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.10 | 1.15 | 0.70 |
| 9 | CMS Energy Corporation | 0.72 | 0.70 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.80 | 0.80 | 0.50 | 0.50 |
| 10 | Consolidated Edison, Inc. | 0.64 | 0.65 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.80 | 0.75 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.40 | 0.40 |
| 11 | Dominion Resources, Inc. | 0.74 | 0.75 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.50 | 0.50 |
| 12 | DTE Energy Company | 0.80 | 0.80 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.50 |
| 13 | Duke Energy Corporation | 0.71 | 0.70 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.45 | 0.45 |
| 14 | Edison International | 0.79 | 0.90 | 1.05 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.55 | 0.55 |
| 15 | Entergy Corporation | 0.79 | 0.80 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.60 | 0.60 |
| 16 | Eversource Energy | 0.94 | 0.75 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.05 | NMF |
| 17 | Exelon Corporation | 0.79 | 0.85 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.55 | 0.55 |
| 18 | FirstEnergy Corp. | 0.77 | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | NMF | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.65 | 0.65 |
| 19 | Fortis Inc. | 0.75 | 0.90 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.60 | 0.60 |
| 20 | Fortis Inc. | 0.70 | 0.55 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | N/A | 0.80 | 0.80 | 0.60 |
| 21 | Hawaiian Electric Industries, Inc. | 0.77 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 0.95 | 0.95 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.55 | 0.55 | 0.55 |
| 22 | IDACORP, Inc. | 0.75 | 0.75 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.50 | 0.50 | 0.55 |
| 23 | MGE Energy, Inc. | 0.71 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.80 | 0.75 | 0.75 | 0.70 | N/A | N/A | N/A | N/A | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.50 | 0.50 |
| 24 | NextEra Energy, Inc. | 0.79 | 0.90 | 1.05 | 1.00 | 1.05 | 1.05 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.95 | 0.90 | 0.95 | 0.90 | 0.85 | 0.50 | 0.50 |
| 25 | NorthWestern Corporation | 0.79 | 0.80 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.55 | 0.60 |
| 26 | OGE Energy Corp. | 0.96 | 0.85 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.10 | 1.05 | 0.70 | 0.70 |
| 27 | Otter Tail Corporation | 0.85 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.70 | 0.70 |
| 28 | PG&E Corporation | 0.78 | 0.95 | 1.10 | 1.15 | 1.10 | 1.10 | 1.10 | 1.05 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 29 | Pinnacle West Capital Corporation | 0.77 | 0.80 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.45 | 0.50 | 0.50 |
| 30 | TXNM Energy, Inc. | 0.81 | 0.70 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.50 | 0.60 | 0.60 |
| 31 | Portland General Electric Company | 0.78 | 0.80 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.55 | 0.55 | 0.55 |
| 32 | PPL Corporation | 0.88 | 0.90 | 1.10 | 1.10 | 1.15 | 1.15 | 1.10 | 1.05 | 1.10 | 1.05 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.15 | 1.10 | 1.05 | 0.65 |
| 33 | Public Service Enterprise Group Incorporated | 0.80 | 0.90 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.60 | 0.60 |
| 34 | Sempra Energy | 0.86 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | N/A | 0.95 | 1.00 | 0.95 | 0.95 | 0.65 | 0.70 |
| 35 | Southern Company | 0.73 | 0.75 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.95 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.50 | 0.50 |
| 36 | WEC Energy Group, Inc. | 0.70 | 0.70 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.45 | 0.45 |
| 37 | Xcel Energy Inc. | 0.69 | 0.75 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.45 | 0.50 |
| 38 | Electric Average | 0.78 | 0.80 | 0.95 | 0.94 | 0.94 | 0.94 | 0.93 | 0.91 | 0.90 | 0.88 | 0.88 | 0.88 | 0.88 | 0.89 | 0.88 | 0.89 | 0.90 | 0.90 | 0.89 | 0.89 | 0.88 | 0.77 | 0.56 |

Source: Value Line Software Analyzer

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line Natural Gas Industry
Historical Betas

| Line | Company | Average | 2Q25 | 1Q25 | 4Q24 | 3Q24 | 2Q24 | 1Q24 | 4Q23 | 3Q23 | 2Q23 | 1Q23 | 4Q22 | 3Q22 | 2Q22 | 1Q22 | 4Q21 | 3Q21 | 2Q21 | 1Q21 | 4Q20 | 3Q20 | 2Q20 | 1Q20 |
|-------------|----------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) |
| Natural Gas | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Atmos Energy Corporation | 0.76 | 0.75 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.55 |
| 2 | Chesapeake Utilities Corporation | 0.73 | 0.75 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.80 | 0.80 | 0.80 | 0.75 | 0.80 | 0.80 | 0.80 | N/A | N/A | N/A | N/A | N/A | N/A |
| 3 | New Jersey Resources Corporation | 0.86 | 0.85 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.90 | 0.90 | 0.65 |
| 4 | NISource Inc. | 0.78 | 0.85 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.85 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.55 |
| 5 | Northwest Natural Gas Company | 0.74 | 0.80 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.55 |
| 6 | ONE Gas, Inc. | 0.80 | 0.85 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.60 |
| 7 | Southwest Gas Corporation | 0.83 | 0.80 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.65 |
| 8 | Spire Inc. | 0.76 | 0.80 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 1.00 | 0.80 | 0.80 | 0.60 |
| 9 | UGI Corporation | 0.97 | 1.10 | 1.15 | 1.15 | 1.10 | 1.10 | 1.10 | 1.10 | 1.05 | 1.05 | 1.05 | 1.05 | 1.00 | 1.05 | 1.05 | 1.05 | 1.05 | N/A | N/A | 1.00 | 1.00 | 0.95 | 0.75 |
| 10 | Natural Gas Average | 0.80 | 0.83 | 0.94 | 0.93 | 0.91 | 0.91 | 0.89 | 0.89 | 0.88 | 0.86 | 0.88 | 0.87 | 0.86 | 0.86 | 0.88 | 0.88 | 0.88 | 0.87 | 0.86 | 0.89 | 0.86 | 0.85 | 0.61 |

Source: Value Line Software Analyzer

Value Line Water Industry
Historical Betas

| Line | Company | Average | 2Q25 | 1Q25 | 4Q24 | 3Q24 | 2Q24 | 1Q24 | 4Q23 | 3Q23 | 2Q23 | 1Q23 | 4Q22 | 3Q22 | 2Q22 | 1Q22 | 4Q21 | 3Q21 | 2Q21 | 1Q21 | 4Q20 | 3Q20 | 2Q20 | 1Q20 |
|--------------|------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) |
| <u>Water</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | American States Water Company | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 |
| 2 | American Water Works Company, Inc. | 0.77 | 0.85 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| 3 | California Water Service Group | 0.72 | 0.85 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.65 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 |
| 4 | Essential Utilities, Inc. | 0.83 | 0.90 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | N/A | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | 0.90 |
| 5 | Middlesex Water Company | 0.73 | 0.80 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 6 | SJW Group | 0.76 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| 7 | Water Average | 0.75 | 0.83 | 0.86 | 0.85 | 0.83 | 0.83 | 0.83 | 0.83 | 0.78 | 0.80 | 0.78 | 0.78 | 0.77 | 0.77 | 0.74 | 0.77 | 0.77 | 0.77 | 0.77 | 0.76 | 0.76 | 0.76 | 0.76 |

Source: Value Line Software Analyzer

Kentucky Utilities Company / Louisville Gas & Electric Company

| Value Line Electric Industry | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Historical Betas | | | | | | | | | | | | | | | | | | | | | | |
| Line | Company | 4Q19 | 3Q19 | 2Q19 | 1Q19 | 4Q18 | 3Q18 | 2Q18 | 1Q18 | 4Q17 | 3Q17 | 2Q17 | 1Q17 | 4Q16 | 3Q16 | 2Q16 | 1Q16 | 4Q15 | 3Q15 | 2Q15 | 1Q15 | 4Q14 |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) |
| Electric | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ALLETE, Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.75 | 0.75 | 0.80 | 0.75 | 0.80 | 0.80 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 2 | Alliant Energy Corporation | 0.60 | 0.60 | 0.60 | 0.65 | 0.60 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 3 | Ameren Corporation | 0.55 | 0.55 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| 4 | American Electric Power Company, Inc. | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | |
| 5 | Avangrid, Inc. | 0.40 | 0.40 | 0.40 | 0.40 | 0.30 | 0.30 | 0.40 | 0.35 | NMF | NMF | NMF | NMF | NMF | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 6 | Avista Corporation | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 7 | Black Hills Corporation | 0.70 | 0.75 | 0.80 | 0.75 | 0.80 | 0.85 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.90 | |
| 8 | CenterPoint Energy, Inc. | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.90 | 0.85 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 | 0.80 | 0.75 | |
| 9 | CMS Energy Corporation | 0.50 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.75 | 0.75 | 0.70 | 0.75 | 0.70 | |
| 10 | Consolidated Edison, Inc. | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | |
| 11 | Dominion Resources, Inc. | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.78 | 0.70 | 0.70 | 0.70 | 0.70 | |
| 12 | DTE Energy Company | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| 13 | Duke Energy Corporation | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.50 | 0.60 | 0.60 | 0.60 | |
| 14 | Edison International | 0.60 | 0.60 | 0.60 | 0.55 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | |
| 15 | Entergy Corporation | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | |
| 16 | Eversource Energy | NMF | NMF | NMF | NMF | NMF | NMF | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 17 | Exelon Corporation | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.70 | 0.65 | 0.70 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | |
| 18 | FirstEnergy Corp. | 0.65 | 0.60 | 0.65 | 0.65 | 0.60 | 0.60 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | |
| 19 | Fortis Inc. | 0.60 | 0.65 | 0.65 | 0.65 | 0.60 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.65 | 0.65 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 20 | Hawaiian Electric Industries, Inc. | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 21 | IDACORP, Inc. | 0.55 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 22 | MGE Energy, Inc. | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.65 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | |
| 23 | NextEra Energy, Inc. | 0.55 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.75 | 0.70 | 0.75 | 0.70 | |
| 24 | NorthWestern Corporation | 0.60 | 0.60 | 0.60 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.70 | 0.70 | |
| 25 | OGE Energy Corp. | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.90 | 0.90 | 0.90 | |
| 26 | Otter Tail Corporation | 0.70 | 0.65 | 0.70 | 0.70 | 0.75 | 0.80 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.85 | 0.85 | 0.85 | 0.80 | 0.85 | 0.85 | 0.85 | 0.90 | 0.90 | |
| 27 | PG&E Corporation | N/A | N/A | N/A | N/A | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | |
| 28 | Pinnacle West Capital Corporation | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | |
| 29 | TXNM Energy, Inc. | 0.60 | 0.60 | 0.65 | 0.65 | 0.60 | 0.75 | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | |
| 30 | Portland General Electric Company | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | |
| 31 | PPL Corporation | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.65 | 0.60 | |
| 32 | Public Service Enterprise Group Incorporated | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | |
| 33 | Sempra Energy | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.80 | 0.75 | 0.75 | |
| 34 | Southern Company | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.65 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.60 | 0.60 | 0.55 | 0.60 | 0.55 | 0.55 | |
| 35 | WEC Energy Group, Inc. | 0.50 | 0.50 | 0.50 | 0.55 | 0.50 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.65 | 0.65 | |
| 36 | Xcel Energy Inc. | 0.50 | 0.50 | 0.50 | 0.50 | 0.55 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | |
| 37 | | | | | | | | | | | | | | | | | | | | | | |
| 38 | Electric Average | 0.59 | 0.60 | 0.61 | 0.61 | 0.61 | 0.64 | 0.68 | 0.69 | 0.70 | 0.69 | 0.69 | 0.70 | 0.69 | 0.71 | 0.73 | 0.74 | 0.75 | 0.74 | 0.75 | 0.74 | |

Source: Value Line Software Analyzer

Kentucky Utilities Company / Louisville Gas & Electric Company

Value Line Natural Gas Industry
Historical Betas

| Line | Company | 4Q19 | 3Q19 | 2Q19 | 1Q19 | 4Q18 | 3Q18 | 2Q18 | 1Q18 | 4Q17 | 3Q17 | 2Q17 | 1Q17 | 4Q16 | 3Q16 | 2Q16 | 1Q16 | 4Q15 | 3Q15 | 2Q15 | 1Q15 | 4Q14 |
|--------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) |
| <u>Natural Gas</u> | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Atmos Energy Corporation | 0.60 | 0.60 | 0.65 | 0.60 | 0.60 | 0.60 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.80 |
| 2 | Chesapeake Utilities Corporation | N/A | N/A | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.65 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | NA | 0.65 | |
| 3 | New Jersey Resources Corporation | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.80 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.80 | 0.80 | 0.80 |
| 4 | NiSource Inc. | 0.55 | 0.55 | 0.55 | 0.55 | 0.50 | 0.55 | 0.60 | 0.60 | 0.60 | NMF | 0.65 | NMF | NMF | NMF | NMF | NMF | NMF | NMF | 0.85 | 0.85 | 0.85 |
| 5 | Northwest Natural Gas Company | 0.60 | 0.60 | 0.60 | 0.65 | 0.60 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 |
| 6 | ONE Gas, Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 7 | Southwest Gas Corporation | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.80 | 0.75 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 |
| 8 | Spire Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 9 | UGI Corporation | N/A | N/A | 0.80 | 0.80 | 0.80 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.90 | 0.85 |
| 10 | Natural Gas Average | 0.64 | 0.64 | 0.66 | 0.67 | 0.65 | 0.68 | 0.73 | 0.71 | 0.73 | 0.74 | 0.73 | 0.74 | 0.74 | 0.74 | 0.74 | 0.76 | 0.76 | 0.79 | 0.79 | 0.81 | 0.78 |

Source: Value Line Software Analyzer

Value Line Water Industry
Historical Betas

| Line | Company | 4Q19 | 3Q19 | 2Q19 | 1Q19 | 4Q18 | 3Q18 | 2Q18 | 1Q18 | 4Q17 | 3Q17 | 2Q17 | 1Q17 | 4Q16 | 3Q16 | 2Q16 | 1Q16 | 4Q15 | 3Q15 | 2Q15 | 1Q15 | 4Q14 |
|-------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) |
| Water | | | | | | | | | | | | | | | | | | | | | | |
| 1 | American States Water Company | 0.65 | 0.65 | 0.65 | 0.65 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 2 | American Water Works Company, Inc. | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| 3 | California Water Service Group | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 |
| 4 | Essential Utilities, Inc. | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 |
| 5 | Middlesex Water Company | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.80 | 0.80 | 0.80 | 0.80 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 |
| 6 | SJW Group | 0.60 | 0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.65 | 0.65 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.85 |
| 7 | Water Average | 0.65 | 0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.70 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 | 0.70 | 0.70 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |

Source: Value Line Software Analyzer

Kentucky Utilities Company / Louisville Gas & Electric Company

CAPM Return

| <u>Line</u> | <u>Description</u> | <u>CAPM Parameters (2)</u> |
|-------------|-----------------------------|------------------------------------|
| 1 | Risk-Free Rate ¹ | 4.60% |
| 2 | Risk Premium ² | 6.82% |
| 3 | Beta ³ | 0.77 |
| 4 | CAPM | 9.85% |

Sources:

¹ *Blue Chip Financial Forecasts*, July 1, 2025.

² *Morningstar Direct*.

³ Exhibit MPG-16, Page 1.

Kentucky Utilities Company / Louisville Gas & Electric Company

Standard & Poor's Credit Metrics (Kentucky Utilities Company)

| Line | Description | Cost of Service | S&P Benchmark | | | Reference |
|------|-----------------------------|------------------|---------------------|--------------------|-------------------|---|
| | | Amount (1) | Intermediate (2) | Significant (3) | Aggressive (4) | |
| 1 | Rate Base | \$ 6,186,741,227 | | | | Schedule A. |
| 2 | Weighted Common Return | 5.02% | | | | Page 2, Line 3, Col. 4. |
| 3 | Pre-Tax Rate of Return | 9.03% | | | | Page 2, Line 4, Col. 5. |
| 4 | Income to Common | \$ 310,665,659 | | | | Line 1 x Line 2. |
| 5 | EBIT | \$ 558,836,478 | | | | Line 1 x Line 3. |
| 6 | Depreciation & Amortization | \$ 421,404,049 | | | | Schedule C-1. |
| 7 | Imputed Amortization | \$ 16,119,600 | | | | S&P Capital IQ, downloaded August 13, 2025. |
| 8 | Capitalized Interest | \$ (36,212,513) | | | | Response to DOD_DR1_KU_Q-12. |
| 9 | Deferred Income Taxes & ITC | \$ - | | | | N/A. |
| 10 | Funds from Operations (FFO) | \$ 711,976,795 | | | | Sum of Line 4 and Lines 6 through 9. |
| 11 | Imputed Interest Expense | \$ 4,039,888 | | | | S&P Capital IQ, downloaded August 13, 2025. |
| 12 | EBITDA | \$ 1,000,400,015 | | | | Sum of Lines 5 through 7 and Line 11. |
| 13 | Adjusted Debt | \$ 2,523,686,011 | | | | Page 3, Line 3, Col. 1 |
| 14 | Total Adjusted Debt Ratio | 48.1% | | | | Page 3, Line 4, Col 2. |
| 15 | Debt to EBITDA | 2.5x | 2.5x - 3.5x | 3.5x - 4.5x | 4.5x - 5.5x | Line 13 / Line 12. |
| 16 | FFO to Total Debt | 28% | 23% - 35% | 13% - 23% | 9% - 13% | Line 10 / Line 13. |
| 17 | Indicative Credit Rating | | A | A- | BBB | S&P Methodology, November 19, 2013. |

Sources:
Standard & Poor's: "Criteria: Corporate Methodology," November 19, 2013.

Note:
KU has an S&P credit rating of A- with an "Excellent" business risk and a "Significant" financial risk profile assessed under the medial volatility table.

| S&P Business/Financial Risk Profile Matrix | | | |
|--|------------------------|-----------------|----------------|
| Business Risk Profile | Financial Risk Profile | | |
| | 4 (intermediate) | 4 (significant) | 5 (aggressive) |
| 1 (excellent) | a+/a | a- | bbb |
| 2 (strong) | a-/bbb+ | bbb | bb+ |
| 3 (satisfactory) | bbb/bbb- | bbb-/bb+ | bb |

Kentucky Utilities Company / Louisville Gas & Electric Company

Standard & Poor's Credit Metrics (Louisville Gas & Electric Company)

| Line | Description | Cost of Service | S&P Benchmark | | | Reference |
|------|-----------------------------|------------------|---------------------|--------------------|-------------------|---|
| | | Amount (1) | Intermediate (2) | Significant (3) | Aggressive (4) | |
| 1 | Rate Base | \$ 5,144,452,329 | | | | Schedule A Total. |
| 2 | Weighted Common Return | 5.03% | | | | Page 2, Line 7, Col. 4. |
| 3 | Pre-Tax Rate of Return | 9.05% | | | | Page 2, Line 8, Col. 5. |
| 4 | Income to Common | \$ 258,675,399 | | | | Line 1 x Line 2. |
| 5 | EBIT | \$ 465,594,580 | | | | Line 1 x Line 3. |
| 6 | Depreciation & Amortization | \$ 421,404,049 | | | | Schedule C-1. |
| 7 | Imputed Amortization | \$ 16,000,000 | | | | S&P Capital IQ, downloaded August 13, 2025. |
| 8 | Capitalized Interest | \$ (42,280,208) | | | | Response to DOD_DR1_KU_Q-12. |
| 9 | Deferred Income Taxes & ITC | \$ - | | | | N/A. |
| 10 | Funds from Operations (FFO) | \$ 653,799,240 | | | | Sum of Line 4 and Lines 6 through 9. |
| 11 | Imputed Interest Expense | \$ 16,000,000 | | | | S&P Capital IQ, downloaded August 13, 2025. |
| 12 | EBITDA | \$ 918,998,629 | | | | Sum of Lines 5 through 7 and Line 11. |
| 13 | Adjusted Debt | \$ 2,523,686,011 | | | | Page 3, Line 3, Col. 1 |
| 14 | Total Adjusted Debt Ratio | 48.1% | | | | Page 3, Line 4, Col 2. |
| 15 | Debt to EBITDA | 2.7x | 2.5x - 3.5x | 3.5x - 4.5x | 4.5x - 5.5x | Line 13 / Line 12. |
| 16 | FFO to Total Debt | 26% | 23% - 35% | 13% - 23% | 9% - 13% | Line 10 / Line 13. |
| 17 | Indicative Credit Rating | | A | A- | BBB | S&P Methodology, November 19, 2013. |

Sources:
Standard & Poor's: "Criteria: Corporate Methodology," November 19, 2013.

Note:
LGE has an S&P credit rating of A- with an "Excellent" business risk and a "Significant" financial risk profile assessed under the medial volatility table.

| S&P Business/Financial Risk Profile Matrix | | | |
|--|------------------------|-----------------|----------------|
| Business Risk Profile | Financial Risk Profile | | |
| | 4 (intermediate) | 4 (significant) | 5 (aggressive) |
| 1 (excellent) | a+/a | a- | bbb |
| 2 (strong) | a-/bbb+ | bbb | bb+ |
| 3 (satisfactory) | bbb/bbb- | bbb-/bb+ | bb |

Kentucky Utilities Company / Louisville Gas & Electric Company

Standard & Poor's Credit Metrics (Pre-Tax Rate of Return)

| Kentucky Utilities Company | | | | | | |
|----------------------------|--------------------|-------------------------|----------------------|--------------------|-----------------------------|-------------------------------------|
| <u>Line</u> | <u>Description</u> | <u>Amount</u> (1) | <u>Weight</u> (2) | <u>Cost</u> (3) | <u>Weighted Cost</u> (4) | <u>Pre-Tax Weighted Cost</u> (5) |
| 1 | Short-Term Debt | \$ 157,536,900 | 2.55% | 4.46% | 0.11% | 0.11% |
| 2 | Long-Term Debt | \$ 2,759,039,499 | 44.60% | 4.93% | 2.20% | 2.20% |
| 3 | Common Equity | <u>\$ 3,270,164,828</u> | <u>52.86%</u> | 9.50% | <u>5.02%</u> | <u>6.72%</u> |
| 4 | Total | \$ 6,186,741,227 | 100.00% | | 7.34% | 9.03% |

| Louisville Gas & Electric Company | | | | | | |
|-----------------------------------|------------------------|-------------------------|----------------------|--------------------|-----------------------------|-------------------------------------|
| <u>Line</u> | <u>Description</u> | <u>Amount</u> (1) | <u>Weight</u> (2) | <u>Cost</u> (3) | <u>Weighted Cost</u> (4) | <u>Pre-Tax Weighted Cost</u> (5) |
| 5 | Short-Term Debt | \$ 88,225,863 | 1.71% | 4.46% | 0.08% | 0.08% |
| 6 | Long-Term Debt | \$ 2,333,327,528 | 45.36% | 4.95% | 2.25% | 2.25% |
| 7 | Common Equity | <u>\$ 2,722,898,938</u> | <u>52.93%</u> | 9.50% | <u>5.03%</u> | <u>6.73%</u> |
| 8 | Total | \$ 5,144,452,329 | 100.00% | | 7.35% | 9.05% |
| 9 | Tax Conversion Factor* | | | | | 1.33809 |

Sources:
Schedule J-1.1/J-1.2.
*Schedule A-1.

Kentucky Utilities Company / Louisville Gas & Electric Company

Standard & Poor's Credit Metrics (Financial Capital Structure)

| <u>Line</u> | <u>Description</u> | <u>KU</u> | | <u>LG&E</u> | |
|-------------|-------------------------|-------------------------|----------------------|-------------------------|----------------------|
| | | <u>Amount</u> (1) | <u>Weight</u> (2) | <u>Amount</u> (3) | <u>Weight</u> (4) |
| 1 | Short-Term Debt | \$ 157,536,900 | 2.52% | \$ 88,225,863 | 1.68% |
| 2 | Long-Term Debt | \$ 2,759,039,499 | 44.11% | \$ 2,333,327,528 | 44.47% |
| 3 | Off-Balance Sheet Debt* | \$ 68,566,497 | 1.10% | \$ 102,132,621 | 1.95% |
| 4 | Total Debt | \$ 2,985,142,896 | 47.72% | \$ 2,523,686,011 | 48.10% |
| 5 | Common Equity | \$ 3,270,164,828 | 52.28% | \$ 2,722,898,938 | 51.90% |
| 6 | Total | \$ 6,255,307,724 | 100.00% | \$ 5,246,584,950 | 100.00% |

Sources:

Schedule J-1.1/J-1.2.

*S&P Capital IQ, downloaded August 13, 2025.

Kentucky Utilities Company / Louisville Gas & Electric Company

D'Ascendis' Revised Multi-Stage Growth DCF Model

| Line | Company | 60-Day AVG | Annualized | First Stage | Second Stage Growth | | | | | Third Stage | Multi-Stage |
|-----------------|---------------------------------------|--------------------------|-----------------------|---------------------|---------------------|--------------|--------------|--------------|--------------|---------------------|--------------|
| | | Stock Price ¹ | Dividend ² | Growth ³ | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | Growth ⁴ | Growth DCF |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| Gas | | | | | | | | | | | |
| 1 | Atmos Energy Corporation | \$142.74 | \$3.48 | 6.85% | 6.39% | 5.93% | 5.48% | 5.02% | 4.56% | 4.10% | 7.12% |
| 2 | New Jersey Resources Corporation | \$47.15 | \$1.80 | 5.45% | 5.23% | 5.00% | 4.78% | 4.55% | 4.33% | 4.10% | 8.42% |
| 3 | NiSource Inc. | \$37.55 | \$1.12 | 8.54% | 7.80% | 7.06% | 6.32% | 5.58% | 4.84% | 4.10% | 8.20% |
| 4 | Northwest Natural Holding Company | \$40.50 | \$1.96 | 6.00% | 5.68% | 5.37% | 5.05% | 4.73% | 4.42% | 4.10% | 9.75% |
| 5 | ONE Gas, Inc. | \$71.04 | \$2.68 | 3.78% | 3.83% | 3.89% | 3.94% | 3.99% | 4.05% | 4.10% | 7.95% |
| 6 | Southwest Gas Holdings, Inc. | \$73.67 | \$2.48 | 9.05% | 8.23% | 7.40% | 6.58% | 5.75% | 4.93% | 4.10% | 8.85% |
| 7 | Spire Inc. | \$70.27 | \$3.14 | 5.71% | 5.44% | 5.17% | 4.91% | 4.64% | 4.37% | 4.10% | 9.23% |
| 8 | Average | \$68.99 | \$2.38 | 6.48% | 6.09% | 5.69% | 5.29% | 4.89% | 4.50% | 4.10% | 8.50% |
| 9 | Median | \$70.27 | \$2.48 | 6.00% | 5.68% | 5.37% | 5.05% | 4.73% | 4.42% | 4.10% | 8.42% |
| Electric | | | | | | | | | | | |
| 10 | Alliant Energy Corporation | \$60.07 | \$2.03 | 6.38% | 6.00% | 5.62% | 5.24% | 4.86% | 4.48% | 4.10% | 8.16% |
| 11 | Ameren Corporation | \$93.16 | \$2.84 | 6.66% | 6.23% | 5.81% | 5.38% | 4.95% | 4.53% | 4.10% | 7.83% |
| 12 | American Electric Power Company, Inc. | \$97.27 | \$3.72 | 6.36% | 5.98% | 5.61% | 5.23% | 4.85% | 4.48% | 4.10% | 8.68% |
| 13 | Duke Energy Corporation | \$111.01 | \$4.18 | 6.21% | 5.86% | 5.51% | 5.16% | 4.80% | 4.45% | 4.10% | 8.57% |
| 14 | Edison International | \$66.01 | \$3.31 | 7.75% | 7.14% | 6.53% | 5.93% | 5.32% | 4.71% | 4.10% | 10.57% |
| 15 | Entergy Corporation | \$79.33 | \$2.40 | 6.13% | 5.79% | 5.45% | 5.12% | 4.78% | 4.44% | 4.10% | 7.68% |
| 16 | Eversource Energy | \$63.65 | \$2.67 | 6.36% | 5.98% | 5.61% | 5.23% | 4.85% | 4.48% | 4.10% | 9.12% |
| 17 | IDACORP, Inc. | \$111.15 | \$3.44 | 7.13% | 6.63% | 6.12% | 5.62% | 5.11% | 4.61% | 4.10% | 8.00% |
| 18 | NorthWestern Corporation | \$53.30 | \$2.64 | 5.44% | 5.22% | 4.99% | 4.77% | 4.55% | 4.32% | 4.10% | 9.69% |
| 19 | OGE Energy Corp. | \$42.46 | \$1.69 | 6.23% | 5.88% | 5.52% | 5.17% | 4.81% | 4.46% | 4.10% | 8.81% |
| 20 | Pinnacle West Capital Corporation | \$87.48 | \$3.58 | 5.33% | 5.13% | 4.92% | 4.72% | 4.51% | 4.31% | 4.10% | 8.70% |
| 21 | Portland General Electric Company | \$43.12 | \$2.00 | 8.54% | 7.80% | 7.06% | 6.32% | 5.58% | 4.84% | 4.10% | 10.38% |
| 22 | The Southern Company | \$84.36 | \$2.88 | 6.64% | 6.22% | 5.79% | 5.37% | 4.95% | 4.52% | 4.10% | 8.27% |
| 23 | TXNM Energy | \$48.96 | \$1.63 | 4.23% | 4.21% | 4.19% | 4.17% | 4.14% | 4.12% | 4.10% | 7.59% |
| 24 | Xcel Energy Inc. | \$67.80 | \$2.28 | 6.92% | 6.45% | 5.98% | 5.51% | 5.04% | 4.57% | 4.10% | 8.28% |
| 25 | Average | \$73.94 | \$2.75 | 6.42% | 6.03% | 5.65% | 5.26% | 4.87% | 4.49% | 4.10% | 8.69% |
| 26 | Median | \$67.80 | \$2.67 | 6.36% | 5.98% | 5.61% | 5.23% | 4.85% | 4.48% | 4.10% | 8.57% |

Sources:

¹ 2025 PSC DR1 KU LGE Attach to Q54 - D'Ascendis Direct Testimony Exhibits and Workpapers, Proxy Prices tab.² 2025 PSC DR1 KU LGE Attach to Q54 - D'Ascendis Direct Testimony Exhibits and Workpapers, Proxy Prices tab.³ Exhibit DWD-3, column 6, page 1 of 23.⁴ Blue Chip Financial Forecasts, June 2, 2025 at page 14.