

UGI UTILITIES, INC. – ELECTRIC DIVISION

BEFORE

THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

Information Submitted Pursuant to

Section 53.51 et seq of the Commission’s Regulations

**UGI ELECTRIC STATEMENT NO. 7 – VICKY A. SCHAPPELL
UGI ELECTRIC STATEMENT NO. 8 – DYLAN W. D’ASCENDIS
UGI ELECTRIC STATEMENT NO. 9 – DARIN T. ESPIGH
UGI ELECTRIC STATEMENT NO. 10 – SHERRY A. EPLER
UGI ELECTRIC STATEMENT NO. 11 – CYNTHIA S. FANG
UGI ELECTRIC STATEMENT NO. 12 – BRIAN J. MEILINGER**

**UGI UTILITIES, INC. – ELECTRIC DIVISION
PA P.U.C. NO. 6, SUPPLEMENT NO. 92**

DOCKET NO. R-2025-3059430

Issued: March 27, 2026

Effective: June 1, 2026

UGI ELECTRIC STATEMENT NO. 7

VICKY A. SCHAPPELL

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Docket No. R-2025-3059430

UGI Utilities, Inc. – Electric Division

Statement No. 7

**Direct Testimony of
Vicky A. Schappell**

Topics Addressed: Capital Planning

Dated: March 27, 2026

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Vicky A. Schappell. My business address is 1 UGI Drive, Denver,
4 Pennsylvania 17517.

5
6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed as Senior Manager, Capital Planning by UGI Utilities, Inc. (“UGI”). UGI
8 is a wholly-owned subsidiary of UGI Corporation (“UGI Corp.”). UGI has two operating
9 divisions, the Electric Division (“UGI Electric” or the “Company”) and the Gas Division
10 (“UGI Gas”), each of which is a public utility regulated by the Pennsylvania Public Utility
11 Commission (“Commission” or “PUC”).

12
13 **Q. Please describe your educational background and work experience.**

14 A. They are set forth in my resume attached as UGI Electric Exhibit VAS-1 to my testimony.

15
16 **Q. What are your responsibilities as Senior Manager?**

17 A. As Senior Manager, I supervise a team of Analysts responsible for the preparation of the
18 annual capital budgets for UGI Gas and UGI Electric. I am responsible for obtaining
19 budget inputs from various departments, including Engineering, Operations, Information
20 Technology (“IT”), and the Building and Grounds Departments. I collaborate with the
21 Senior Director – Electric Division, Senior Engineering Managers, and the Senior Director
22 Financial Planning and Analysis to monitor annual capital budget performance and develop
23 strategies to limit variances in capital installations and spending. I also work closely with
24 the President of UGI to develop the overall capital spend and in-service strategy. In this

1 role, I have also prepared testimony, and, supporting exhibits and schedules, and sponsored
2 responses to discovery requests for past rate cases. Also, I am responsible for preparing
3 UGI Electric’s Annual Asset Optimization Plan. Additionally, I had an integral role in
4 developing an expanded capital spending monitoring process made necessary by the
5 Company’s accelerated capital investment programs.

6
7 **Q. Have you previously presented testimony in proceedings before a regulatory agency?**

8 A. Yes. UGI Electric Exhibit VAS-1 contains a list of those proceedings.

9
10 **Q. What is the purpose of your testimony?**

11 A. My testimony will address the capital planning process used by UGI Electric which
12 supports the plant in service expenditures included in the proposed rates in this proceeding,
13 specifically as related to plant additions for the future test year ending September 30, 2026
14 (“FTY”) and the fully projected future test year ending September 30, 2027 (“FPFTY” or
15 “FY2027”).

16
17 **Q. Are you sponsoring any exhibits in this proceeding?**

18 A. Yes, in addition to UGI Electric Exhibit VAS-1, I am sponsoring UGI Electric Exhibit
19 VAS-2. I am also sponsoring certain responses to the Commission’s standard filing
20 requirements as indicated on the master list accompanying this filing.

1 **II. CAPITAL PLANNING**

2 **Q. What is the total plant in service budget for UGI Electric for the FPFTY that is**
3 **reflected in the proposed rates?**

4 A. The total budgeted plant additions for UGI Electric for the FPFTY is \$37,311,000.

5
6 **Q. As an initial matter, are Transmission plant additions excluded from Pennsylvania**
7 **distribution service rate base for UGI Electric?**

8 A. Yes, they are. The Company identifies projects that only serve a Transmission plant
9 function as part of its overall capital budgeting process. Projects that are identified as
10 having solely a Transmission purpose are excluded from the distribution rate base
11 presented in this proceeding. Some categories of projects support both the distribution and
12 transmission functions. For these projects, UGI Electric uses an allocation factor to ensure
13 an appropriate portion of the dollars associated with these General and Common plant
14 additions are recovered through distribution rates, while the transmission portion is
15 excluded.

16
17 **Q. What are the specific project categories included in the capital budget for UGI**
18 **Electric?**

19 A. UGI Electric has four main categories that make up its capital budgets: (1) replacement
20 and betterment of infrastructure, which includes transmission, substation, and distribution
21 assets; (2) growth, including expansion of the transmission and distribution system to
22 support growth; (3) IT; and (4) other capital spending. I will describe each of these

1 categories and the projects associated with them, as well as the total dollars attributable to
2 each category, below.

3
4 **Q. What process does UGI Electric use to develop its capital budget?**

5 A. UGI Electric's capital budget starts by identifying the four critical areas where the
6 Company must make capital investments to maintain safe and reliable service to customers.
7 For each of these budget areas, the Company identifies all of the projects or categories of
8 projects that are planned to occur in each year of the two-year forecast. Once those projects
9 are determined, the Company identifies the FERC accounting treatment for each project.
10 In this case, the Company presents them as part of the budgeted plant additions in UGI
11 Electric Exhibit A, Schedule C-2. The process used to develop Exhibit A is further
12 described in the direct testimony of Tracy A. Hazenstab (UGI Electric Statement No. 2).

13
14 **Q. How does Schedule C-2 show plant additions?**

15 A. Schedule C-2 is an accounting presentation based on FERC accounts. For purposes of
16 developing Schedule C-2, budgeted dollars in each category are broken out by the FERC
17 account numbers that drive the accounting for depreciation. Schedule C-2 is split between
18 Distribution Plant and General and Common Plant. The General and Common Plant
19 includes only the distribution portion of the plant additions for UGI Electric.

20
21 **Q. Have you prepared an exhibit that shows UGI Electric's plant additions broken down
22 by budget project categories?**

23 A. Yes, I have. UGI Electric Exhibit VAS-2 reflects the Company's plant additions, broken
24 down by different project categories for the five-year period from fiscal year 2023 through

1 fiscal year 2027. The exhibit splits the four budget project categories between Distribution
2 Plant and General and Common Plant, consistent with the categories on Schedule C-2. In
3 addition, UGI Electric Exhibit VAS-2 shows a historical comparison of the total budgeted
4 plant placed in service versus actual plant placed in service additions for the three-year
5 period from fiscal year 2023 through fiscal year 2025. I will describe the Company's
6 performance history, which supports the reasonableness of the Company's FTY and
7 FPFTY plant additions, in greater detail later in my testimony.

8
9 **Q. Please comment on the presentations shown in UGI Electric Exhibit VAS-2 and**
10 **Schedule C-2.**

11 A. While the forecasted total plant in service figures match for the FTY and FPFTY, there is
12 a difference in the presentation of how UGI Electric Exhibit VAS-2 and Schedule C-2
13 present plant additions, and it is important to understand how these budget presentations
14 align. Specifically, UGI Electric Exhibit VAS-2 shows how the Company's four individual
15 budget categories constitute the Company's total Plant Additions and how they map into
16 the Distribution and General and Common Plant on Schedule C-2. Exhibit VAS-2 shows
17 that all four budget categories fall into both of the plant categories (i.e., Distribution Plant
18 and General & Common Plant) when describing the budget by FERC accounts. Because
19 of the small size of the operations at UGI Electric, based on the mix of projects planned for
20 each fiscal year, there might not be spending in each of the budget categories in both of the
21 plant categories.

1 **Q. Why is it important to understand the relationship between the Company’s budgeting**
2 **process and the reflection of the budget in Schedule C-2?**

3 A. When the Company plans for future operations, the Company utilizes a project-based
4 build-up and does not directly budget using FERC accounts, as work streams do not
5 directly correlate to the format shown in Schedule C-2. When the Company budgets and
6 then executes on its budget, it first looks at the total for the budget category, then examines
7 its overall budgeted projects on a total-additions basis, because its operations and work
8 streams are divided in the same manner to achieve core utility objectives. Ultimately, the
9 Company manages the total overall budget. As a result of this process, it is more reasonable
10 to review the Distribution and General and Common Plant levels together when
11 considering how the Company performed to its budget, rather than the accounting
12 distinction set forth in Schedule C-2. Thus, to properly compare historical budgeted plant
13 additions to actuals for ratemaking purposes, the Distribution and General and Common
14 Plant additions should be reviewed together.

15
16 **Q. Turning to the capital budget categories, what are replacement and betterment**
17 **projects?**

18 A. Replacement and betterment (“R&B”) projects improve, repair or replace existing
19 infrastructure and make up the majority of projects captured in UGI Electric’s Long Term
20 Infrastructure Improvement Plan (“LTIIIP”). The Company’s LTIIIP performance is
21 described in the direct testimony of Vince A. DeGuisto (UGI Electric Statement No. 3).

1 **Q. Please describe how the prioritization process is used to evaluate R&B Projects.**

2 A. Projects are prioritized for inclusion in the budget according to the condition of, and risks
3 associated with, existing assets, including those factors affecting safety and reliability. In
4 determining the condition of an existing asset, the Company considers various criteria,
5 including, but not limited to, age, material, performance, inspection and test results,
6 obsolescence, and maintenance costs.

7
8 **Q. How does UGI Electric determine which R&B projects are included in the capital
9 budget for a given year?**

10 A. UGI Electric’s LTIP guides the formulation of the overall R&B capital budget. Within
11 the various program categories of the LTIP, R&B projects are selected and prioritized in
12 the budget under two key designations: condition-based replacements and reliability
13 enhancements. Condition-based replacements address “aging infrastructure,” such as
14 poles, transformers, underground primary cable, open wire secondary, and deteriorated or
15 failed pole-mounted equipment (e.g., switches, reclosers, and capacitors). Reliability
16 enhancement projects are targeted towards addressing known reliability issues or
17 implementing system resiliency strategies. These projects are prioritized based on metrics
18 such as worst-performing feeder circuits and include the creation of inter-substation tie-
19 lines and the deployment of distribution automation devices. Additionally, through its
20 comprehensive inspection and maintenance program, UGI Electric assesses asset
21 conditions to identify and prioritize maintenance issues or trends. The information
22 collected through this hybrid approach is used to schedule projects to mitigate short-term
23 and long-term system impacts. The total anticipated budgeted plant additions associated

1 with R&B projects in the FPFTY is \$30,639,000, making up the majority of the capital
2 additions included in this case; these additions are included in Distribution plant additions.

3
4 **Q. What are growth projects?**

5 A. Growth projects provide new or upgraded electric service to customers and may involve
6 primary overhead and underground line extensions, new or upgraded transformer
7 installations, and associated service enhancements.

8
9 **Q. Please describe how the growth infrastructure projects are selected for inclusion in
10 the capital budget.**

11 A. The growth portion of the capital budget is developed using historical trends as well as
12 projections that are informed by known large customers, forecasts of growth projects,
13 counts of residential developments and associated customers, and general construction and
14 development trends in the UGI Electric service territory. The final budget layers in the
15 above components, considering construction timing and the level of confidence in the
16 customer's ability to meet project timelines. The total anticipated budgeted plant additions
17 associated with growth projects in the FPFTY is \$3,301,000; these additions are included
18 in Distribution plant additions.

19
20 **Q. What are IT projects?**

21 A. IT projects enhance the Company's IT systems in a number of ways. These projects
22 involve hardware and software applications that improve the Company's processes and
23 methods across a wide range of operational concerns or needs, such as capital project
24 management, cybersecurity, customer communications, billing, and other areas. Further,

1 these projects facilitate the Company’s ability to enter, store, retrieve, and send data and
2 information related to such projects. The total anticipated budgeted plant additions
3 associated with IT projects in the FTY is \$4,364,000. Of this amount, \$1,931,000 relates
4 to one specific large IT project, Field Services Management (“FSM”). FSM has a planned
5 in-service date of July 2026 as presented in the Company’s 2025 Gas Base Rate Case (See
6 the Direct Testimony of Vicky A. Schappell, UGI Gas Statement No. 5)¹, and there are no
7 additional costs included in the FPFTY. The total anticipated budgeted plant additions
8 associated with IT projects in the FPFTY is \$1,235,000, and these projects are included in
9 General and Common plant additions.

10
11 **Q. Please describe the prioritization process used to evaluate IT projects.**

12 A. IT projects are prioritized for inclusion in the budget based on identified business needs.
13 UGI relies on an IT Prioritization Committee to develop a prioritized budget based on
14 overall business impact, availability of system support, and resource availability.

15
16 **Q. What are Other capital projects?**

17 A. Other capital projects include building-related projects, capital tool purchases, and fleet
18 purchases. Building-related projects include building and land purchases, building
19 improvements/renovations, and furniture purchases. Capital tool projects encompass new
20 tool purchases for field use during capital projects. These tools include pole saws, wire
21 strippers, test equipment, safety tools, and lighting equipment. Fleet purchases are needed
22 to maintain reliable transportation and related apparatus for field employees to perform

¹ See PAPUC v. UGI Gas, R-2024-3052716 (Recommended Decision issued on August 8, 2025 recommending approval of the Joint Petition for Approval of Settlement of All Issues without modification). No party challenged the Company’s FSM and related IT Plan.

1 their daily functions. These acquisitions include SUVs, pickup trucks, cargo vans, service-
2 body trucks, bucket trucks, and equipment trailers for poles. The total anticipated budgeted
3 plant additions associated with Other projects in the FPFTY is \$2,135,000, of which
4 \$84,000 is included in Distribution plant additions and \$2,051,000 is included in General
5 and Common plant additions.

6
7 **Q. Please describe the prioritization process used to evaluate Other capital projects.**

8 A. The prioritization process for Other capital projects is specific to the need being addressed.
9 Building-related projects are prioritized for inclusion in the budget based on safety,
10 security, regulatory, financial, or strategic needs. Regulatory-driven projects often
11 originate from compliance requirements or certain audit observations. Physical security
12 audits may prompt the installation of fencing, gates, and access controls. Capital tool
13 projects are prioritized for inclusion in the budget according to the useful life of the existing
14 assets. Fleet purchases are prioritized for inclusion in the budget based on age, condition,
15 maintenance costs, and mileage of the existing asset.

16
17 **Q. Please discuss some of the key drivers which support the increase in UGI Electric's**
18 **FPFTY plant additions as compared to the HTY.**

19 A. The planned capital for FY2027 includes cost increases in R&B associated with additional
20 and necessary investments in the LTIP's Circuit Improvement Projects program, related
21 to a dramatic increase in facility upgrades and replacements associated with pole
22 attachment make-ready work required to support recent and material increases in
23 broadband expansion. The actual and projected expenditures in the Modified Second
24 LTIP reflect the increased scope and complexity of pole attachment make-ready projects

1 that UGI Electric has completed or is expecting to complete within the five-year term of
2 the LTIP. On September 25, 2025, the Commission issued an Opinion and Order
3 approving the Company's Modified LTIP. The Company's LTIP performance is
4 described in the direct testimony of Vince A. DeGuisto (UGI Electric Statement No. 3).

5 The planned capital for FY2027 also includes an increase in R&B associated with
6 one very large project, the Mine Hollow Substation. The substation will be a 66/13.8kV
7 substation on the eastern edge of UGI Electric's service territory with four (4) new 13kV
8 feeders. The project spans multiple years of spending, and is estimated to go into service
9 in September 2027. This project is described in greater detail in the testimony of Mr.
10 DeGuisto.

11
12 **Q. How can UGI Electric's actual in-service plant additions be compared to budgeted**
13 **in-service plant additions historically in order to demonstrate Company**
14 **performance?**

15 A. As shown in UGI Electric Exhibit VAS-2, over the past three years, the Company's total
16 budgeted in-service plant additions were \$59,709,000, while the total actual in-service
17 plant additions were \$66,125,000. Thus, UGI Electric's plant in service as viewed by
18 variance to budget is over 110% ($\$66,126,000/\$59,708,000$) over the three-year period.
19 The percentage of plant additions is calculated by dividing the actual plant additions by the
20 budgeted plant additions (Actual / Forecast). This correlation is indicative of the
21 Company's ability to develop a plan for plant additions and reliably execute that plan.
22 Importantly, the Company manages its budgets in total, and as any budget changes are
23 made, dollars are reallocated between the four main budget categories described above,
24 such that plant additions align as closely as possible to total plant addition actuals.

1 **Q. What process does UGI Electric utilize when developing its capital budgets?**

2 A. During the Company’s capital budget process, which occurs during the summer/fall, a two-
3 year budget is prepared. The first year of the capital budget is the basis for the FTY. The
4 second year is a preliminary budget and is the basis for the FPFTY. During the budget
5 process, project managers estimate the total project costs and budgeted in-service dates at
6 the project level based on the current data available. These estimated in-service dates are
7 the basis for the budgeted plant additions as further discussed in the testimony of UGI
8 Electric witness Amy M. Keller (UGI Electric Statement No. 5). As the Company
9 transitions from one budget year to the next, and the preliminary budget year becomes the
10 active budget year, the Company makes certain adjustments to its budget for known and
11 measurable changes in the assumptions about operating conditions that supported the
12 preliminary budget. The Company adjusts its project lists on an annual basis to respond to
13 operational demands, such as the need to reprioritize projects based on emerging service
14 needs or unanticipated equipment condition changes. For example, the Company’s annual
15 budget reflects on-going circuit improvement projects focused on remediating conductor
16 clearance violations identified as part of attachment make-ready projects for expanded rural
17 internet access. The number of make-ready projects varies annually depending on requests
18 by the broadband companies that are doing attachment work. UGI Electric does not control
19 the number of project requests it receives in any particular fiscal year. Costs within this
20 program category include UGI Electric costs to bring poles, attachments, and other
21 equipment into compliance with current published safety, reliability and construction
22 standards in advance of work done by the new pole attacher. To the extent the requests for
23 make-ready work are lower than budgeted, the costs would be reallocated back into the
24 budget. As described above, the Company manages its capital budget for any particular

1 year in total. In doing so, the Company will prioritize projects and update associated
2 projections as needed in order to achieve a result which has the greatest likelihood of being
3 on budget for the year in total. UGI Electric has consistently met or exceeded its capital
4 budget projections.

5
6 **Q. What metric is utilized by the Company to track plant addition performance?**

7 A. Exhibit VAS-2 compares plant additions placed in service (i.e., actuals) to the budgeted
8 plant additions between 2023 and 2025 in order to track actual plant addition performance.
9 The exhibit provides these figures for the four budget categories described above. It also
10 separates them by Distribution Plant and General and Common Plant. Taken together, the
11 Distribution and General and Common Plant categories calculate total Plant Additions.
12 Finally, the exhibit calculates the plant in service as a percent of the budget metric for each
13 year and over the three-year period by dividing actuals by budgets.

14 Specifically, during this three-year period, the Company's plant additions averaged
15 110.7% of its budget, as mentioned above. Thus, the Company has demonstrated that over
16 a three-year period, it has a documented history of meeting or exceeding its budgeted plant
17 additions. This close correlation between budgeted and actual plant placed in service over
18 the past three years shows that UGI Electric's budget process is very effective at identifying
19 its required plant additions, and UGI Electric's capital deployment and management
20 activities perform actual work in near identical level to budgeted levels. In total, this
21 comparative metric supports the Company's ability to successfully plan and execute on the
22 claimed level of plant in service in this case.

1 **III. CONCLUSION**

2 **Q. Does this conclude your direct testimony?**

3 **A. Yes, it does.**

UGI ELECTRIC

EXHIBIT VAS-1

Vicky A. Schappell

Senior Manager – Capital Planning

WORK EXPERIENCE

UGI Utilities, Inc. (Denver, PA)

Senior Manager – Capital Planning	May 2024-Present
Principal Analyst - Capital Planning	January 2020-May 2024
Senior Analyst - Capital Planning	April 2018-January 2020
Senior Supervisor Plant Accounting	December 2014-April 2018
Senior Analyst - General Ledger	September 2011-December 2014
Analyst II – General Ledger	September 2008-September 2011

Teleflex Medical (Reading, PA)

Accounting Supervisor	December 2007-September 2008
Senior Accountant – Financial Reporting	March 2003-December 2007
Staff Accountant – Financial Reporting	October 1999-March 2003

Heffler, Radetich & Saitta, LLP (Philadelphia, PA)

Auditor	May 1997-October 1999
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Education

B.S. in Accounting, Shippensburg University,
1997

Previous Testimony

UGI Gas Base Rate Case	Docket No. R-2025-3059525
UGI Gas Base Rate Case	Docket No. R-2019-3015162
UGI Gas Base Rate Case	Docket No. R-2021-3030218
UGI Electric Base Rate Case	Docket No. R-2022-3037368
UGI Gas Base Rate Case	Docket No. R-2024-3052716

UGI ELECTRIC

EXHIBIT VAS-2

UGI UTILITIES, INC. - ELECTRIC DISTRIBUTION DIVISION
Plant Additions Placed in Service Compared to Budget
\$ amounts in '000s

Description	Budget	Actual	Budget	Actual	Budget	Actual	3 Year Total	
	2025	2025	2024	2024	2023	2023	Budget	Actual
Distribution								
Replacement and Betterment	12,784	12,658	14,112	17,385	13,762	16,220	40,658	46,263
Growth	2,701	2,743	3,609	3,425	6,190	2,837	12,500	9,005
Other	98	973	27	104	71	-	196	1,077
IT	-	390	-	-	-	-	-	390
Subtotal Distribution	15,583	16,764	17,748	20,914	20,023	19,057	53,354	56,735
General and Common Plant								
Replacement and Betterment	-	-	-	10	-	9	-	19
Growth	-	-	-	-	-	-	-	-
Other	237	7	464	978	2,088	2,878	2,789	3,863
IT	193	896	2,262	951	1,110	3,662	3,565	5,509
Subtotal General and Common Plant	430	903	2,726	1,939	3,198	6,549	6,354	9,391
Total Plant Additions	16,013	17,667	20,474	22,853	23,221	25,606	59,708	66,126
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Capital Spend as % of Budget	(2) / (1)	110.3%	(2) / (1)	111.6%	(2) / (1)	110.3%	(2) / (1)	110.7%

Forecasted Performance

Description	FPFTY Budget 2027	FTY Budget 2026
Distribution		
Replacement and Betterment	30,639	19,094
Growth	3,301	3,513
Other	84	27
IT	-	128
Subtotal Distribution	34,024	22,762
General and Common Plant		
Replacement and Betterment	-	-
Growth	-	-
Other	2,051	1,590
IT	1,235	4,235
Subtotal General and Common Plant	3,286	5,825
Total Forecasted Plant Additions	37,310	28,587

UGI ELECTRIC STATEMENT NO. 8

DYLAN W. D'ASCENDIS

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

UGI UTILITIES, INC. – ELECTRIC DIVISION

DOCKET NO. R-2025-3059430

**Direct Testimony and Exhibit
of
Dylan W. D’Ascendis**

List of Topics Addressed

Return on Equity

March 27, 2026

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23 **DIRECT TESTIMONY OF DYLAN W. D'ASCENDIS**

24 **I. POSITION AND QUALIFICATIONS**

25 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND POSITION.**

26 A. My name is Dylan W. D'Ascendis. My business address is 1820 Chapel Ave., W., Suite
27 300, Cherry Hill, N.J. 08003. I am a Partner at ScottMadden, Inc.

28 **Q. WHAT IS YOUR PROFESSIONAL AND EDUCATIONAL BACKGROUND AND**
29 **EXPERIENCE?**

30 A. I have offered expert testimony on behalf of investor-owned utilities before over 40 state
31 regulatory commissions in the United States, the Federal Energy Regulatory Commission,
32 the National Energy Regulator in Canada, the Alberta Utility Commission, one American
33 Arbitration Association panel, and the Superior Court of Rhode Island on issues including,
34 but not limited to, common equity cost rate, rate of return, valuation, capital structure, class
35 cost of service, and rate design.

36 On behalf of the American Gas Association ("AGA"), I calculate the AGA Gas
37 Index, which serves as the benchmark against which the performance of the American Gas
38 Index Fund ("AGIF") is measured on a monthly basis. The AGA Gas Index and AGIF are
39 a market capitalization-weighted index and mutual fund, respectively, comprised of the
40 common stocks of the publicly traded corporate members of the AGA.

41 I am a member of the Society of Utility and Regulatory Financial Analysts
42 ("SURFA"). In 2011, I was awarded the professional designation "Certified Rate of Return
43 Analyst" by SURFA, which is based on education, experience, and the successful
44 completion of a comprehensive written examination.

45 I am also a member of the National Association of Certified Valuation Analysts
46 (“NACVA”) and was awarded the professional designation “Certified Valuation Analyst”
47 by the NACVA in 2015.

48 I am a graduate of the University of Pennsylvania, where I received a Bachelor of
49 Arts degree in Economic History. I have also received a Master of Business Administration
50 with high honors and concentrations in Finance and International Business from Rutgers
51 University.

52 The details of my educational background and expert witness appearances are
53 included in Appendix A.

54 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY**
55 **COMMISSIONS?**

56 A. Yes, the regulatory commissions I have testified before are identified in Appendix A.

57 **II. PURPOSE OF DIRECT TESTIMONY**

58 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS**
59 **PROCEEDING?**

60 A. The purpose of my Direct Testimony is to present evidence and provide the Pennsylvania
61 Public Utility Commission (the “Commission”) with a recommendation regarding UGI
62 Utilities, Inc. – Electric Division’s (“UGI Electric” or the “Company”) return on common
63 equity (“ROE”) for its electric distribution operations, and to provide an assessment of the
64 capital structure to be used for ratemaking purposes. My testimony relies upon Company
65 records, public documents, my personal knowledge and education, and my professional
66 experience.

67 **Q. HAVE YOU PREPARED ANY EXHIBITS OR SCHEDULES IN CONNECTION**
68 **WITH YOUR TESTIMONY?**

69 A. Yes. My analyses and conclusions are supported by the data presented in Exhibit B as
70 Schedules DWD-1 through DWD-11, which have been prepared by me or under my direct
71 supervision and control.

72 **Q. WHAT IS YOUR RECOMMENDED COMMON EQUITY COST RATE?**

73 A. I recommend that the Commission authorize UGI Electric the opportunity to earn an ROE
74 of 10.85% on its jurisdictional rate base, based on its actual capital structure. The
75 Company's requested capital structure consists of 45.75% long-term debt, at an embedded
76 debt cost rate of 5.17%, and 54.25% common equity, to which my recommended ROE of
77 10.85% would apply. The overall rate of return is summarized on page 1 of Schedule
78 DWD-1 and in Table 1 below:

79 **Table 1: Summary of Recommended Weighted Average Cost of Capital**

Type of Capital	Ratios	Cost Rate	Weighted Cost Rate
Long-Term Debt	45.75%	5.17%	2.37%
Common Equity	<u>54.25%</u>	10.85%	<u>5.89%</u>
Total	<u>100.00%</u>		<u>8.26%</u>

80

81 **Q. PLEASE SUMMARIZE YOUR RECOMMENDED ROE.**

82 A. My recommended ROE of 10.85% is summarized on page 2 of Schedule DWD-1. I have
83 assessed the market-based common equity cost rates of companies of relatively similar,
84 but not necessarily identical, risk to UGI Electric. Using companies of relatively
85 comparable risk as proxies is consistent with the principles of fair rate of return established

86 in the *Hope*¹ and *Bluefield*² decisions. No proxy group can be identical in risk to any single
 87 company. Consequently, there must be an evaluation of relative risk between the Company
 88 and the proxy group to determine if it is appropriate to adjust the proxy group’s indicated
 89 rate of return.

90 My recommendation results from the application of several cost of common equity
 91 models, specifically the Discounted Cash Flow (“DCF”) model, the Risk Premium Model
 92 (“RPM”), and the Capital Asset Pricing Model (“CAPM”), to the market data of a proxy
 93 group of thirteen (13) electric utility companies (“Electric Utility Proxy Group”) whose
 94 selection criteria will be discussed below. In addition, I applied the DCF model, RPM,
 95 and CAPM to a Non-Price Regulated Proxy Group similar in total risk to the Electric
 96 Utility Proxy Group. The results derived from each cost of common equity model are as
 97 follows:

98 **Table 2: Summary of Common Equity Cost Rate**

Discounted Cash Flow Model (DCF)	10.43%
Risk Premium Model (RPM)	10.59% - 11.00%
Capital Asset Pricing Model (CAPM)	10.22% - 11.45%
Cost of Equity Models Applied to Comparable Risk, Non-Price Regulated Companies	<u>12.35% - 12.98%</u>
Indicated Range of Common Equity Cost Rates Before Adjustments for Company- Specific Risk	10.22% - 12.98%
Business Risk Adjustment	0.40%
Credit Risk Adjustment	-0.07%
Flotation Cost Adjustment	<u>0.13%</u>
Indicated Range of Common Equity Cost Rates after Adjustment	<u>10.68% - 13.45%</u>
Recommended Cost of Equity	<u>10.85%</u>

¹ *Federal Power Comm’n v. Hope Natural Gas Co.*, 320 U.S. 591 (1944) (“*Hope*”).

² *Bluefield Water Works Improvement Co. v. Public Serv. Comm’n*, 262 U.S. 679 (1923) (“*Bluefield*”).

99 As shown in Table 2, the indicated range of common equity cost rates applicable
100 to the Electric Utility Proxy Group is between 10.22% and 12.98%.

101 After determining the Electric Utility Proxy Group ROE, one must conduct a
102 relative risk analysis to determine whether additional adjustments to the Electric Utility
103 Proxy Group ROE are warranted to reflect the unique risk of the Company. My relative
104 risk analyses show that adjustments to the Electric Utility Proxy Group indicated range of
105 ROEs are necessary based on the Company's relative size, bond rating, and flotation costs.
106 From the indicated range of ROEs after adjustment from 10.68% to 13.45%, I recommend
107 that the Commission approve a specific ROE of 10.85% for the Company's jurisdictional
108 rate base.

109 **III. GENERAL PRINCIPLES**

110 **Q. WHAT GENERAL PRINCIPLES HAVE YOU CONSIDERED IN ARRIVING AT**
111 **YOUR RECOMMENDED COMMON EQUITY COST RATE OF 10.85%?**

112 A. In unregulated industries, marketplace competition is the principal determinant of the price
113 of products or services. For regulated public utilities, regulation must act as a substitute
114 for marketplace competition. Assuring that the utility can fulfill its obligations to the
115 public while providing safe and reliable service at all times requires a level of earnings
116 sufficient to maintain the integrity of presently invested capital. Sufficient earnings also
117 permit the attraction of needed new capital at a reasonable cost, for which the utility must
118 compete with other firms of comparable risk, consistent with the fair rate of return
119 standards established by the U.S. Supreme Court in the previously cited *Hope* and *Bluefield*
120 cases.

121 The U.S. Supreme Court affirmed the fair rate of return standards in *Hope* when it
122 stated:

123 The rate-making process under the Act, i.e., the fixing of ‘just and
124 reasonable’ rates, involves a balancing of the investor and the
125 consumer interests. Thus we stated in the *Natural Gas Pipeline Co.*
126 case that ‘regulation does not insure that the business shall produce
127 net revenues.’ 315 U.S. at page 590, 62 S.Ct. at page 745. But such
128 considerations aside, the investor interest has a legitimate concern
129 with the financial integrity of the company whose rates are being
130 regulated. From the investor or company point of view it is
131 important that there be enough revenue not only for operating
132 expenses but also for the capital costs of the business. These include
133 service on the debt and dividends on the stock. Cf. *Chicago &*
134 *Grand Trunk R. Co. v. Wellman*, 143 U.S. 339, 345, 346 12 S.Ct.
135 400,402. By that standard the return to the equity owner should be
136 commensurate with returns on investments in other enterprises
137 having corresponding risks. That return, moreover, should be
138 sufficient to assure confidence in the financial integrity of the
139 enterprise, so as to maintain its credit and to attract capital.³

140 In summary, the U.S. Supreme Court has found a return that is adequate to attract
141 capital at reasonable terms enables the utility to provide service while maintaining its
142 financial integrity. As discussed above, and in keeping with established regulatory
143 standards, that return should be commensurate with the returns expected elsewhere for
144 investments of equivalent risk. The Commission’s decision in this proceeding, therefore,
145 should provide the Company with the opportunity to earn a return that is: (1) adequate to
146 attract capital at reasonable cost and terms; (2) sufficient to ensure its financial integrity;
147 and (3) commensurate with returns on investments in enterprises having corresponding
148 risks.

149 Lastly, the required return for a regulated public utility is established on a stand-
150 alone basis, i.e., for the utility operating company at issue in a rate case. Parent entities,
151 like other investors, have capital constraints and must look at the attractiveness of the
152 expected risk-adjusted return of each investment alternative in their capital budgeting

³ *Hope*, 320 U.S. 591 (1944), at 603.

153 process. That is, utility holding companies that own many utility operating companies
154 have choices as to where they will invest their capital within the holding company family.
155 Therefore, the opportunity cost concept applies regardless of the source of the funding,
156 public funding or corporate funding.

157 When funding is provided by a parent entity, the return must still be sufficient to
158 incentivize allocating equity capital to the subsidiary or business unit rather than other
159 internal or external investment opportunities. That is, the regulated subsidiary must
160 compete for capital with all the parent company's affiliates, and with other, similarly
161 situated companies. In that regard, investors value corporate entities on a sum-of-the-parts
162 basis and expect each division within the parent company to provide an appropriate risk-
163 adjusted return.

164 It is therefore important that the authorized ROE reflects the risks and prospects of
165 the utility's operations and supports the utility's financial integrity from a stand-alone
166 perspective, as measured by its combined business and financial risks. Consequently, the
167 ROE authorized in this proceeding should be sufficient to support the operational (i.e.,
168 business risk) and financing (i.e., financial risk) of the Company's utility subsidiary on a
169 stand-alone basis.

170 **Q. WITHIN THAT BROAD FRAMEWORK, HOW IS THE COST OF CAPITAL**
171 **ESTIMATED IN REGULATORY PROCEEDINGS?**

172 A. Regulated utilities primarily use common stock and long-term debt to finance their
173 permanent property, plant, and equipment (i.e., rate base). The fair rate of return for a
174 regulated utility is based on its weighted average cost of capital, in which, as noted earlier,
175 the costs of the individual sources of capital are weighted by their respective book values.

176 The cost of capital is the return investors require to make an investment in a firm.
177 Investors will provide funds to a firm only if the return that they *expect* is equal to or
178 greater than the return that they *require* to accept the risk of providing funds to the firm.

179 The cost of capital (i.e., the combination of the costs of debt and equity) is based
180 on the economic principle of “opportunity costs.” Investing in any asset (whether debt or
181 equity securities) represents a forgone opportunity to invest in alternative assets. For any
182 investment to be sensible, its expected return must be at least equal to the return expected
183 on alternative, comparable risk investment opportunities. Because investments with like
184 risks should offer similar returns, the opportunity cost of an investment should equal the
185 return available on an investment of comparable risk.

186 Whereas the cost of debt is contractually defined and can be directly observed as
187 the interest rate or yield on debt securities, the cost of common equity must be estimated
188 based on market data and various financial models. Because the cost of common equity is
189 premised on opportunity costs, the models used to determine it are typically applied to a
190 group of “comparable” or “proxy” companies.

191 In the end, the estimated cost of capital should reflect the return that investors
192 require in light of the subject company’s business and financial risks, and the returns
193 available on comparable investments.

194 **Q. IS THE AUTHORIZED RETURN SET IN REGULATORY PROCEEDINGS**
195 **GUARANTEED?**

196 A. No, it is not. Consistent with the *Hope* and *Bluefield* standards, the ratemaking process
197 should provide the utility a reasonable opportunity to recover its return of, and return on,
198 its reasonably incurred investments, but it does not guarantee that return. While a utility
199 may have control over some factors that affect the ability to earn its authorized return (e.g.,

200 management performance, operating and maintenance expenses, etc.), there are several
201 factors beyond a utility's control that affect its ability to earn its authorized return. Those
202 may include factors such as weather, the economy, and the prevalence and magnitude of
203 regulatory lag.

204 **A. Business Risk**

205 **Q. PLEASE DEFINE BUSINESS RISK AND EXPLAIN WHY IT IS IMPORTANT**
206 **FOR DETERMINING A FAIR RATE OF RETURN.**

207 A. The investor-required return on common equity reflects investors' assessment of the total
208 investment risk of the subject firm. Total investment risk is often discussed in the context
209 of business and financial risk.⁴

210 Business risk reflects the uncertainty associated with owning a company's common
211 stock without the company's use of debt and/or preferred stock financing. One way of
212 considering the distinction between business and financial risk is to view the former as the
213 uncertainty of the expected earned return on common equity, assuming the firm is financed
214 with no debt.

215 Examples of business risks generally faced by utilities include, but are not limited
216 to, the regulatory environment, mandatory environmental compliance requirements,
217 customer mix and concentration of customers, service territory economic growth, market
218 demand, risks and uncertainties of supply, operations, capital intensity, size, the degree of
219 operating leverage, emerging technologies, the vagaries of weather, and the like, all of
220 which have a direct bearing on earnings.

221 Although analysts, including ratings agencies, may categorize business risks

⁴ As will be discussed later in this testimony, another definition of total risk is systematic risk plus unsystematic risk.

222 individually, as a practical matter, such risks are interrelated and not wholly distinct from
223 one another. When determining an appropriate return on common equity, the relevant
224 issue is where investors see the subject company in relation to other similarly situated
225 utility companies (i.e., the Electric Utility Proxy Group). To the extent investors view a
226 company as being exposed to higher risk, the required return will increase, and vice versa.

227 For regulated utilities, business risks are both long-term and near-term in nature.
228 Whereas near-term business risks are reflected in year-to-year variability in earnings and
229 cash flow driven by economic or regulatory factors, long-term business risks reflect the
230 prospect of an impaired ability of investors to obtain both a fair rate of return on, and return
231 of, their capital. Moreover, because utilities accept the obligation to provide safe,
232 adequate, and reliable service at all times (in exchange for a reasonable opportunity to earn
233 a fair return on their investment), they generally do not have the option to delay, defer, or
234 reject capital investments. Because those investments are capital-intensive, utilities
235 generally do not have the option to avoid raising external funds during periods of capital
236 market distress, if necessary.

237 Because utilities invest in long-lived assets, long-term business risks are of
238 paramount concern to equity investors. That is, the risk of not recovering the return on
239 their investment extends far into the future. The timing and nature of events that may lead
240 to losses, however, are also uncertain and, consequently, those risks and their implications
241 for the required return on equity tend to be difficult to quantify. Regulatory commissions
242 (like investors who commit their capital) must review a variety of quantitative and
243 qualitative data and apply their reasoned judgment to determine how long-term risks weigh
244 in their assessment of the market-required return on common equity.

245 **B. Financial Risk**

246 **Q. PLEASE DEFINE FINANCIAL RISK AND EXPLAIN WHY IT IS IMPORTANT**
247 **FOR DETERMINING A FAIR RATE OF RETURN.**

248 A. Financial risk is the additional risk created by the introduction of debt and preferred stock
249 into the capital structure. The higher the proportion of debt and preferred stock in the
250 capital structure, the higher the financial risk to common equity owners (i.e., failure to
251 receive dividends due to default or other covenants). Therefore, consistent with the basic
252 financial principle of risk and return, common equity investors require higher returns as
253 compensation for bearing higher financial risk.

254 **Q. CAN BOND AND CREDIT RATINGS BE A PROXY FOR A FIRM'S COMBINED**
255 **BUSINESS AND FINANCIAL RISKS TO EQUITY OWNERS (I.E., INVESTMENT**
256 **RISK)?**

257 A. Yes, similar bond ratings/issuer credit ratings reflect, and are representative of, similar
258 combined business and financial risks (i.e., total risk) faced by bond investors.⁵ Although
259 specific business or financial risks may differ between companies, the same bond/credit
260 rating indicates that the combined risks are roughly similar from a debtholder perspective.
261 The caveat is that these debt-holder risk measures do not translate directly to risks for
262 common equity.

263 **IV. UGI ELECTRIC AND THE ELECTRIC UTILITY PROXY GROUP**

264 **Q. ARE YOU FAMILIAR WITH UGI ELECTRIC'S OPERATIONS?**

265 A. Yes. UGI Electric provides electric utility service to over 62,900 customers in Luzerne
266 and Wyoming counties in northeastern Pennsylvania through approximately 2,700 miles

⁵ Risk distinctions within S&P's bond rating categories are recognized by a plus or minus, e.g., an S&P rating can be an A+, A, or A-. Similarly, risk distinction for Moody's ratings are distinguished by numerical rating gradations, e.g., a Moody's rating can be A1, A2 and A3.

267 of transmission and distribution lines and 14 substations. UGI Utilities, Inc. holds an A3
268 rating from Moody's and is not rated by S&P. The Company is not publicly traded, as it is
269 an indirectly owned operating subsidiary of UGI Corporation ("UGI Corp."). UGI Corp.
270 is publicly traded on the NYSE under ticker symbol UGI.

271 **Q. WHY IS IT NECESSARY TO DEVELOP A PROXY GROUP WHEN**
272 **ESTIMATING THE ROE FOR THE COMPANY?**

273 A. Because the Company is not publicly traded and does not have publicly traded equity
274 securities, it is necessary to develop groups of publicly traded, comparable companies to
275 serve as "proxies" for the Company. In addition to the analytical necessity of doing so,
276 the use of proxy companies is consistent with the *Hope* and *Bluefield* comparable risk
277 standards, as discussed above. I have selected two proxy groups that, in my view, are
278 fundamentally risk-comparable to the Company: an Electric Utility Proxy Group and a
279 Non-Price Regulated Proxy Group, which is comparable in total risk to the Electric Utility
280 Proxy Group.⁶

281 Even when proxy groups are carefully selected, it is common for analytical results
282 to vary from company to company. Despite the care taken to ensure comparability,
283 because no two companies are identical, market expectations regarding future risks and
284 prospects will vary within the proxy group. Therefore, it is common for analytical results
285 to reflect a seemingly wide range, even for a group of similarly situated companies. At
286 issue is how to estimate the ROE from within that range. That determination will be best
287 informed by employing a variety of sound analyses that necessarily must consider the sort
288 of quantitative and qualitative information discussed throughout my Direct Testimony.

⁶ The development of the Non-Price Regulated Proxy Group is explained in more detail in Section V.

289 Additionally, a relative risk analysis between the Company and the Electric Utility Proxy
290 Group must be made to determine whether or not explicit Company-specific adjustments
291 need to be made to the Electric Utility Proxy Group’s indicated results.

292 **Q. PLEASE EXPLAIN HOW YOU SELECTED THE COMPANIES IN THE**
293 **ELECTRIC UTILITY PROXY GROUP.**

294 A. The companies selected for the Utility Proxy Group met the following criteria:

- 295 (i) They were included in the Electric Utility Group (East, Central, or West)
296 of *Value Line’s Standard Edition* as of January 30, 2026 (“*Value Line*”);
- 297 (ii) They have 70% or greater of fiscal year 2024 total operating income derived
298 from, and 70% or greater of fiscal year 2024 total assets attributable to,
299 regulated electric operations;
- 300 (iii) At the time of preparation of this testimony, they had not publicly
301 announced that they were involved in any major merger or acquisition
302 activity (i.e., one publicly-traded utility merging with or acquiring another)
303 or any other major development;
- 304 (iv) They have not cut or omitted their common dividends during the five years
305 ended 2024 or through the time of preparation of this testimony;
- 306 (v) They have *Value Line* and Bloomberg Professional Services
307 (“Bloomberg”) adjusted Beta coefficients (“beta”);
- 308 (vi) They have positive *Value Line* five-year dividends per share growth rate
309 projections; and
- 310 (vii) They have *Value Line*, Zacks, or S&P Capital IQ consensus five-year
311 earnings per share growth rate projections.

312 The following thirteen (13) companies met these criteria:

Table 3: Electric Utility Proxy Group Screening Results

Company	Ticker
Alliant Energy Corporation	LNT
Ameren Corporation	AEE
American Electric Power Corporation Inc.	AEP
Edison International	EIX
Entergy Corporation	ETR
Evergy, Inc.	EVRG
FirstEnergy Corporation	FE
IDACORP, Inc.	IDA
OGE Energy Corporation	OGE
Pinnacle West Capital Corporation	PNW
Portland General Electric Company	POR
Southern Company	SO
Xcel Energy Inc.	XEL

314

V. CAPITAL STRUCTURE315 **Q. WHAT IS UGI ELECTRIC'S REQUESTED CAPITAL STRUCTURE?**316 A. UGI Electric's requested ratemaking capital structure consists of 45.75% long-term debt
317 and 54.25% common equity.318 **Q. WHAT ARE THE TYPICAL SOURCES OF CAPITAL COMMONLY**
319 **CONSIDERED IN ESTABLISHING A UTILITY'S CAPITAL STRUCTURE?**320 A. Common equity and long-term debt are commonly considered in establishing a utility's
321 capital structure, because they are the typical sources of capital financing a utility's rate
322 base.323 **Q. PLEASE EXPLAIN.**324 A. Long-lived assets are typically financed with long-lived securities, so that the overall term
325 structure of the utility's long-term liabilities (both debt and equity) closely match the life
326 of the assets being financed. As stated by Brigham and Houston:

327 In practice, firms don't finance each specific asset with a type of
328 capital that has a maturity equal to the asset's life. However,
329 academic studies do show that most firms tend to finance short-term
330 assets from short-term sources and long-term assets from long-term
331 sources.⁷

332 Whereas short-term debt has a maturity of one year or less, long-term debt may
333 have maturities of thirty (30) years or longer. Although there are practical financing
334 constraints, such as the need to "stagger" long-term debt maturities, the general objective
335 is to extend the average life of long-term debt. Still, long-term debt has a finite life, which
336 is likely to be less than the life of the assets included in rate base. Common equity, on the
337 other hand, is outstanding into perpetuity. Thus, common equity more accurately matches
338 the life of the going concern of the utility, which is also assumed to operate in perpetuity.
339 Consequently, it is both typical and important for utilities to have significant proportions
340 of common equity in their capital structures.

341 **Q. HOW DOES THE COMPANY'S REQUESTED COMMON EQUITY RATIO OF**
342 **54.25% COMPARE WITH THE COMMON EQUITY RATIO MAINTAINED BY**
343 **THE ELECTRIC UTILITY PROXY GROUP?**

344 A. As shown on page 2 of Schedule DWD-2, common equity ratios range from 26.94% to
345 52.01% for fiscal year 2024 for the Electric Utility Proxy Group. I also considered *Value*
346 *Line* projected capital structures for the utilities for 2028-2030. That analysis shows a
347 range of projected common equity ratios between 29.00% and 56.00%.⁸

348 In addition to comparing the Company's requested common equity ratio with
349 common equity ratios currently maintained by the Electric Utility Proxy Group, I also

⁷ Eugene F. Brigham and Joel F. Houston, Fundamentals of Financial Management, Concise 4th Ed., Thomson South-Western, 2004, at 574.

⁸ See, pages 2 through 14 of Schedule DWD-3.

350 compared the Company's common equity ratio with the equity ratios maintained by the
351 operating subsidiaries of the Electric Utility Proxy Group. As shown on page 3 of
352 Schedule DWD-2, common equity ratios of the operating utility subsidiaries of the
353 companies in the Utility Proxy Group range from 38.13% to 67.52% for fiscal year 2024,
354 for the Electric Utility Proxy Group's operating subsidiaries. The Company's requested
355 common equity ratio of 54.25% is reasonable and consistent with the range of common
356 equity ratios maintained by the operating utility subsidiaries of the Electric Utility Proxy
357 Group.

358 **Q. GIVEN THE RANGE OF EQUITY RATIOS PRESENT WITHIN THE UTILITY**
359 **PROXY GROUP, IS UGI ELECTRIC'S REQUESTED EQUITY RATIO OF**
360 **54.25% APPROPRIATE FOR RATEMAKING PURPOSES?**

361 A. Yes, it is. The Company's requested equity ratio of 54.25% is appropriate for ratemaking
362 purposes in the current proceeding because it is within the range of the common equity
363 ratios currently maintained and expected to be maintained by the Electric Utility Proxy
364 Group and its operating subsidiaries.

365 **VI. COMMON EQUITY COST RATE MODELS**

366 **Q. IS IT IMPORTANT THAT COST OF COMMON EQUITY MODELS BE**
367 **MARKET-BASED?**

368 A. Yes. While a public utility operates a regulated business within the states in which it
369 operates, it still must compete for equity in capital markets along with all other companies
370 of comparable risk, which includes non-utilities. The cost of common equity is thus
371 determined based on equity market expectations for the returns of those companies. If an
372 individual investor is choosing to invest their capital among companies of comparable risk,

373 they will choose a company providing a higher return over a company providing a lower
374 return.

375 **Q. ARE YOUR COST OF COMMON EQUITY MODELS MARKET-BASED?**

376 A. Yes. The DCF model uses market prices to develop its dividend yield component. The
377 RPM uses bond ratings and expected bond yields that reflect the market's assessment of
378 bond/credit risk. In addition, betas (β), which reflect the market/systematic risk component
379 of equity risk premium, are derived from regression analyses of market prices. The CAPM
380 is market-based for many of the same reasons that the RPM is market-based (i.e., the use
381 of expected bond yields and betas). Selection criteria for comparable risk non-price
382 regulated companies are based on regression analyses of market prices and reflect the
383 market's assessment of total risk.

384 **Q. WHAT ANALYTICAL APPROACHES DID YOU USE TO DETERMINE THE**
385 **COMPANY'S ROE?**

386 A. As discussed earlier, I have relied on the DCF model, the RPM, and the CAPM, which I
387 applied to the Electric Utility Proxy Group described above. I also applied these same
388 models to Non-Price Regulated Proxy Group described later in this section.

389 I rely on these models because reasonable investors use a variety of tools and do
390 not rely exclusively on a single source of information or a single model. Moreover, the
391 models on which I rely focus on different aspects of return requirements and provide
392 different insights into investors' views of risk and return. The DCF model, for example,
393 estimates the investor-required return assuming a constant expected dividend yield and
394 growth rate in perpetuity, while Risk Premium-based methods (i.e., the RPM and CAPM
395 approaches) provide the ability to reflect investors' views of risk, future market returns,
396 and the relationship between interest rates and the cost of common equity. Just as the use

397 of market data for the Electric Utility Proxy Group adds the reliability necessary to inform
398 expert judgment in arriving at a recommended common equity cost rate, the use of multiple
399 generally accepted common equity cost rate models also adds reliability and accuracy
400 when arriving at a recommended common equity cost rate.

401 The use of multiple models also makes intuitive sense when we consider that
402 market prices are set by the buying and selling behavior of multiple investors, whose
403 circumstances, objectives, and constraints vary over time and across market conditions.
404 We cannot assume a single method is the best measure of the factors motivating those
405 decisions for all investors at all times. Giving undue weight to a single method runs the
406 very real risk of ignoring important information provided by other methods.

407 In other words, no single model is more reliable than all others under all market
408 conditions. Intuition suggests it is more appropriate to use as many methods as we
409 reasonably can and to reflect the many factors motivating investment decisions as best we
410 can. In this instance, intuition, financial theory,⁹ and financial practice reach a common
411 conclusion: we should apply and reasonably consider multiple methods when estimating
412 the ROE.

413 **A. Discounted Cash Flow Model**

414 **Q. WHAT IS THE THEORETICAL BASIS OF THE DCF MODEL?**

415 A. The theory underlying the DCF model is that the present value of an expected future stream
416 of net cash flows during the investment holding period can be determined by discounting

⁹ As Brigham explains: “Whereas debt and preferred stocks are contractual obligations which have easily determined costs, it is not at all easy to estimate [the ROE]. However, three methods can be used: (1) the Capital Asset Pricing Model (CAPM), (2) the discounted cash flow (DCF) model, and (3) the bond-yield-plus-risk-premium approach. These methods should not be regarded as mutually exclusive – no one dominates the others, and all are subject to error when used in practice. Therefore, when faced with the task of estimating a company’s cost of equity, we generally use all three methods and then choose among them on the basis of our confidence in the data used for each in the specific case at hand.” Eugene F. Brigham, Louis C. Gapenski, Financial Management, Theory and Practice, 7th ed., The Dryden Press, 1994, at 341.

417 those cash flows at the cost of capital, or the investors' capitalization rate. DCF theory
418 indicates that an investor buys a stock for an expected total return rate, which is derived
419 from the cash flows received from dividends and market price appreciation.
420 Mathematically, the dividend yield on market price plus a growth rate equals the
421 capitalization rate, i.e., the total common equity return rate expected by investors.

422
$$K_e = (D_0 (1+g))/P + g$$

423 where:

424 K_e = the required Return on Common Equity;

425 D_0 = the annualized Dividend Per Share;

426 P = the current stock price; and

427 g = the growth rate.

428 **Q. WHICH VERSION OF THE DCF MODEL DID YOU USE?**

429 A. I used the single-stage constant growth DCF model in my analyses.

430 **Q. PLEASE DESCRIBE THE DIVIDEND YIELD YOU USED IN APPLYING THE**
431 **CONSTANT GROWTH DCF MODEL.**

432 A. The unadjusted dividend yields are based on the proxy companies' dividends as of January
433 30, 2026, divided by the average closing market price for the 60 trading days ended January
434 30, 2026.¹⁰

435 **Q. PLEASE EXPLAIN YOUR ADJUSTMENT TO THE DIVIDEND YIELD.**

436 A. Because dividends are paid periodically (quarterly), as opposed to continuously (daily), an
437 adjustment must be made to the dividend yield. This is often referred to as the discrete, or
438 the Gordon Periodic, version of the DCF model.

¹⁰ See, Column 1, page 1 of Schedule DWD-3.

439 DCF theory calls for using the full growth rate, or D_1 , in calculating the model's
440 dividend yield component. Since the companies in the Electric Utility Proxy Group
441 increase their quarterly dividends at various times during the year, a reasonable assumption
442 is to reflect one-half the annual dividend growth rate in the dividend yield component, or
443 $D_{1/2}$. Because the dividend should be representative of the next 12-month period, this
444 adjustment is a conservative approach that does not overstate the dividend yield.
445 Therefore, the actual average dividend yields in Column 1, page 1 of Schedule DWD-3,
446 have been adjusted upward to reflect one-half the average projected growth rate shown in
447 Column 6.

448 **Q. PLEASE EXPLAIN THE BASIS FOR THE GROWTH RATES YOU APPLY TO**
449 **THE ELECTRIC UTILITY PROXY GROUP IN YOUR CONSTANT GROWTH**
450 **DCF MODEL.**

451 A. Investors are likely to rely on widely available financial information services, such as
452 *Value Line*, Zacks, and S&P Capital IQ. Investors realize that analysts have significant
453 insight into the dynamics of the industries and individual companies they analyze, as well
454 as companies' abilities to effectively manage the effects of changing laws and regulations,
455 and ever-changing economic and market conditions. For these reasons, I used analysts'
456 five-year forecasts of earnings per share growth in my DCF analysis.

457 Over the long run, there can be no growth in dividends per share without growth in
458 earnings per share. Security analysts' earnings expectations have a more significant
459 influence on market prices than dividend expectations. Thus, using projected earnings
460 growth rates in a DCF analysis provides a better match between investors' market price
461 appreciation expectations and the growth rate component of the DCF.

462 **Q. PLEASE SUMMARIZE THE CONSTANT GROWTH DCF MODEL RESULTS.**

463 A. The results of applying the DCF model to the Electric Utility Proxy Group are shown on
464 page 1 of Schedule DWD-3 and in Table 4, below:

465 Table 4: DCF Model Results for the Utility Proxy Group

Mean	10.40%
Median	10.45%
Average of Mean and Median	10.43%

466 In arriving at a conclusion for the constant growth DCF-indicated common equity
467 cost rate for the Electric Utility Proxy Group, I relied on an average of the mean and the
468 median results of the DCF, specifically 10.43% applicable to the Electric Utility Proxy
469 Group. This approach takes into consideration all proxy company results while mitigating
470 high and low side outliers of those results.

471 **B. The Risk Premium Model**

472 **Q. PLEASE DESCRIBE THE THEORETICAL BASIS OF THE RPM.**

473 A. The RPM is based on the fundamental financial principle of risk and return; namely, that
474 investors require greater returns for bearing greater risk. The RPM recognizes that
475 common equity capital has greater investment risk than debt capital, as common equity
476 shareholders are behind debt holders in any claim on a company's assets and earnings. As
477 a result, investors require higher returns from common stocks than from bonds to
478 compensate them for bearing the additional risk.

479 While it is possible to directly observe bond returns and yields, investors' required
480 common equity returns cannot be directly determined or observed. According to RPM
481 theory, one can estimate a common equity risk premium over bonds (either historically or
482 prospectively) and use that premium to derive a cost rate of common equity. The cost of
483 common equity equals the expected cost rate for long-term debt capital, plus a risk

484 premium over that cost rate, to compensate common shareholders for the added risk of
485 being unsecured and last-in-line for any claim on the corporation's assets and earnings
486 upon liquidation.

487 **Q. PLEASE EXPLAIN THE TOTAL MARKET APPROACH RPM.**

488 A. The total market approach RPM adds a prospective public utility bond yield to an average
489 of: (1) an equity risk premium that is derived from a beta-adjusted total market equity risk
490 premium, (2) an equity risk premium based on the S&P Utilities Index, and (3) an equity
491 risk premium based on authorized ROEs for electric utilities.

492 **Q. PLEASE EXPLAIN THE BASIS OF THE EXPECTED BOND YIELD OF 5.78%
493 APPLICABLE TO THE UTILITY PROXY GROUP.**

494 A. The first step in the total market approach RPM analysis is to determine the expected bond
495 yield. Because both ratemaking and the cost of capital, including the common equity cost
496 rate, are prospective in nature, a prospective yield on similarly-rated long-term debt is
497 essential. I relied on a consensus forecast of about 50 economists of the expected yield on
498 Aaa-rated corporate bonds for the six calendar quarters ending with the second calendar
499 quarter of 2027, and *Blue Chip Financial Forecast's* ("Blue Chip") long-term projections
500 for 2027 to 2031 and 2032 to 2036. As shown on line 1, page 1 of Schedule DWD-4, the
501 average expected yield on Moody's Aaa-rated corporate bonds is 5.29%. In order to adjust
502 the expected Aaa-rated corporate bond yield to an equivalent A2-rated public utility bond
503 yield, I made an upward adjustment of 0.36%, which represents a recent spread between
504 Aaa-rated corporate bonds and A2-rated public utility bonds.¹¹ Adding that recent 0.36%
505 spread to the expected Aaa-rated corporate bond yield of 5.29% results in an expected A2-

¹¹ As shown on line 2 and explained in note 2, page 1 of Schedule DWD-4.

506 rated public utility bond yield of 5.65%. Since the Electric Utility Proxy Group’s average
 507 Moody’s long-term issuer rating is Baa1, another adjustment to the expected A2-rated
 508 public utility bond is needed to reflect the difference in bond ratings. An upward
 509 adjustment of 0.13%, which represents two-thirds of a recent spread between A2-rated and
 510 Baa2-rated public utility bond yields, is necessary to make the prospective bond yield
 511 applicable to a Baa1-rated public utility bond.¹² Adding the 0.13% to the 5.65%
 512 prospective A2-rated public utility bond yield results in a 5.78% expected bond yield
 513 applicable to the Electric Utility Proxy Group.

514 **Table 5: Summary of the Calculation of the Electric Utility Proxy Group**
 515 **Projected Bond Yield¹³**

Prospective Yield on Moody’s Aaa-Rated Corporate Bonds (<i>Blue Chip</i>)	5.29%
Adjustment to Reflect Yield Spread Between Moody’s Aaa-Rated Corporate Bonds and Moody’s A2-Rated Utility Bonds	<u>0.36%</u>
Adjustment to Reflect the Electric Utility Proxy Group’s Average Moody’s Bond Rating of Baa1	<u>0.13%</u>
Prospective Bond Yield Applicable to the Electric Utility Proxy Group	<u>5.78%</u>

516 **Q. PLEASE EXPLAIN HOW THE BETA-DERIVED EQUITY RISK PREMIUM IS**
 517 **DETERMINED.**

518 A. The components of the beta-derived risk premium model are: (1) an expected market
 519 equity risk premium over corporate bonds, and (2) the beta. The derivation of the beta-
 520 derived equity risk premium that I applied to the Electric Utility Proxy Group is shown on
 521 lines 1 through 8, on page 6 of Schedule DWD-4. The total beta-derived equity risk
 522 premium I applied is based on an average of three historical market data-based equity risk

¹² As shown on line 4 and explained in note 3, page 1 of Schedule DWD-4.

¹³ As shown on page 1 of Schedule DWD-4.

523 premiums, a *Value Line*-based equity risk premium, and combined *Value Line*, Bloomberg,
524 and S&P Capital IQ-based equity risk premium. Each of these is described below.

525 **Q. HOW DID YOU DERIVE A MARKET EQUITY RISK PREMIUM BASED ON**
526 **LONG-TERM HISTORICAL DATA?**

527 A. To derive a historical market equity risk premium, I used the most recent holding period
528 returns for the large company common stocks, less the average historical yield on Moody's
529 Aaa/Aa-rated corporate bonds for the period 1928 to 2024. The use of holding period
530 returns over a very long period of time is appropriate because it is consistent with the long-
531 term investment horizon presumed by investing in a going concern, i.e., a company
532 expected to operate in perpetuity.

533 The long-term arithmetic mean monthly total return rate on large company
534 common stocks was 12.05%, and the long-term arithmetic mean monthly yield on
535 Moody's Aaa/Aa-rated corporate bonds was 5.95% from 1928 to 2024. As shown on line
536 1 of page 6 of Schedule DWD-4, subtracting the mean monthly bond yield from the total
537 return on large company stocks results in a long-term historical equity risk premium of
538 6.10%.

539 I used the arithmetic mean monthly total return rates for the large company stocks
540 and yields (income returns) for the Moody's Aaa/Aa-rated corporate bonds, because they
541 are appropriate for the purpose of estimating the cost of capital as noted in Kroll's Stocks,
542 Bonds, Bills, and Inflation ("SBBI") Yearbook 2023 ("SBBI - 2023").¹⁴ The use of the
543 arithmetic mean return rates and yields is appropriate because historical total returns and
544 equity risk premiums provide insight into the variance and standard deviation of returns

¹⁴ SBBI-2023, at 193.

545 needed by investors in estimating future risk when making a current investment. If
546 investors relied on the geometric mean of historical equity risk premiums, they would have
547 no insight into the potential variance of future returns because the geometric mean relates
548 the change over many periods to a constant rate of change, thereby obviating the year-to-
549 year fluctuations, or variance, which is critical to risk analysis.

550 **Q. PLEASE EXPLAIN THE DERIVATION OF THE REGRESSION-BASED**
551 **MARKET EQUITY RISK PREMIUM.**

552 A. To derive the regression-based market equity risk premium of 6.89% shown on line 2, page
553 6 of Schedule DWD-4, I used the same monthly annualized total returns on large company
554 common stocks relative to the monthly annualized yields on Moody's Aaa/Aa-rated
555 corporate bonds as mentioned above. I modeled the relationship between interest rates and
556 the market equity risk premium using the observed monthly market equity risk premium
557 as the dependent variable, and the monthly yield on Moody's Aaa/Aa-rated corporate
558 bonds as the independent variable. I then used a linear Ordinary Least Squares ("OLS")
559 regression, in which the market equity risk premium is expressed as a function of the
560 Moody's Aaa/Aa-rated corporate bond yield:

$$RP = \alpha + \beta (R_{Aaa/Aa})$$

562 where:

563 RP = the market equity risk premium;

564 α = the regression intercept coefficient;

565 β = the regression slope coefficient; and

566 $R_{Aaa/Aa}$ = the Moody's Aaa/Aa rated corporate bond yield.

567 **Q. PLEASE EXPLAIN THE DERIVATION OF THE PRPM EQUITY RISK**
568 **PREMIUM.**

569 A. The PRPM, published in the *Journal of Regulatory Economics*,¹⁵ was developed from the
570 work of Robert F. Engle, who shared the Nobel Prize in Economics in 2003, “for methods
571 of analyzing economic time series with time-varying volatility” or ARCH.¹⁶ Engle found
572 that volatility changes over time and is related from one period to the next, especially in
573 financial markets. Engle discovered that volatility of prices and returns clusters over time
574 and is, therefore, highly predictable and can be used to predict future levels of risk and risk
575 premiums.

576 The PRPM estimates the risk-return relationship directly, as the predicted equity
577 risk premium is generated by predicting volatility or risk. The PRPM is not based on an
578 estimate of investor behavior, but rather on an evaluation of the results of that behavior
579 (i.e., the variance of historical equity risk premiums).

580 The inputs to the model are the historical returns on large-company stocks minus
581 the historical monthly yield on Moody’s Aaa/Aa-rated corporate bonds from January 1928
582 through January 2026. Using a generalized form of ARCH, known as GARCH, I
583 calculated the projected equity risk premium using Eviews© statistical software. When
584 the GARCH model is applied to the historical return data, it produces a predicted GARCH
585 variance series and a GARCH coefficient. Multiplying the predicted monthly variance by
586 the GARCH coefficient and then annualizing it produces the predicted annual equity risk
587 premium. The resulting PRPM predicted a market equity risk premium of 6.93%.¹⁷

¹⁵ Pauline M. Ahern, Frank J. Hanley, and Richard A. Michelfelder, “A New Approach for Estimating the Equity Risk Premium for Public Utilities”, *The Journal of Regulatory Economics* (December 2011), 40:261-278.

¹⁶ Autoregressive conditional heteroscedasticity; see also www.nobelprize.org.

¹⁷ Shown on line 3, page 6 of Schedule DWD-4.

588 **Q. PLEASE EXPLAIN THE DERIVATION OF A PROJECTED EQUITY RISK**
589 **PREMIUM BASED ON *VALUE LINE* SUMMARY & INDEX DATA FOR YOUR**
590 **RPM ANALYSIS.**

591 A. As noted above, because both ratemaking and the cost of capital are prospective, a
592 prospective market equity risk premium is needed. The derivation of the forecasted or
593 prospective market equity risk premium can be found in note 4, page 6 of Schedule DWD-
594 4. Consistent with my calculation of the dividend yield component in my DCF analysis,
595 this prospective market equity risk premium is derived from an average of the three- to
596 five-year median market price appreciation potential by *Value Line* for the 13 weeks ended
597 January 30, 2026, plus an average of the median estimated dividend yield for the common
598 stocks of the 1,700 firms covered in *Value Line* (Standard Edition).¹⁸

599 The average median expected price appreciation is 41%, which translates to an
600 8.97% annual appreciation, and when added to the average of *Value Line's* median
601 expected dividend yields of 2.15%, equates to a forecasted annual total return rate on the
602 market of 11.12%. The forecasted Moody's Aaa-rated corporate bond yield of 5.29% is
603 deducted from the total market return of 11.12%, resulting in an equity risk premium of
604 5.83%, as shown on line 4, page 6 of Schedule DWD-4.

605 **Q. PLEASE EXPLAIN THE DERIVATION OF AN EQUITY RISK PREMIUM**
606 **BASED ON THE S&P 500 COMPANIES.**

607 A. Using data from *Value Line*, Bloomberg, and S&P Capital IQ, I calculated an expected
608 total return on the S&P 500 companies using expected dividend yields and long-term
609 growth estimates as a proxy for capital appreciation. The expected total return for the S&P

¹⁸ As explained in detail in note 4, page 6 of Schedule DWD-4.

610 500 is 18.62%. Subtracting the prospective yield on Moody’s Aaa-rated corporate bonds
 611 of 5.29% results in a 13.33% projected equity risk premium, as shown on page 6, line 5 of
 612 Schedule DWD-4.

613 **Q. WHAT IS YOUR CONCLUSION OF A BETA-DERIVED EQUITY RISK**
 614 **PREMIUM FOR USE IN YOUR RPM ANALYSIS?**

615 A. I gave equal weight to all five equity risk premiums based on each source – historical,
 616 *Value Line* Summary & Index, and aggregate *Value Line*, Bloomberg, and S&P Capital IQ
 617 Market DCF in arriving at a 7.82% equity risk premium.

618 **Table 6: Summary of the Calculation of the Equity Risk Premium Using Total**
 619 **Market Returns¹⁹**

Risk Premium Measure	Implied Equity Risk Premium
Historical Spread Between Total Returns of Large Stocks and Aaa and Aa-Rated Corporate Bond Yields (1928 – 2024)	6.10%
Regression Analysis on Historical Data	6.89%
PRPM Analysis on Historical Data	6.93%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line Summary & Index</i> less Projected Aaa Corporate Bond Yields	5.83%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns for the S&P 500 less Projected Aaa Corporate Bond Yields	13.33%
Average	<u>7.82%</u>

620 After calculating the average market equity risk premium of 7.82%, I adjusted it
 621 by beta to account for the risk of the Electric Utility Proxy Group. As discussed below,
 622 beta is a meaningful measure of prospective relative risk to the market as a whole, and is
 623 a logical way to allocate a company’s, or proxy group’s, share of the market’s total equity
 624 risk premium relative to corporate bond yields.

¹⁹ As shown on page 6 of Schedule DWD-4.

625 **Q. WHAT MEASURES OF BETA DO YOU USE IN DETERMINING YOUR BETA-**
626 **ADJUSTED EQUITY RISK PREMIUM?**

627 A. I use two measures of beta to calculate my beta-adjusted equity risk premium: (1) the
628 average of *Value Line* and Bloomberg betas; and (2) *Value Line* betas. As will be discussed
629 in detail below, Bloomberg betas may not accurately reflect the risks of the Electric Utility
630 Proxy Group at this time and should be viewed with caution.

631 **Q. WHAT ARE THE BETA VALUES YOU WILL APPLY TO THE MARKET**
632 **EQUITY RISK PREMIUM?**

633 A. As shown on pages 1 and 2 of Schedule DWD-6, the Electric Utility Proxy Group's
634 average blended beta is 0.60, and its average *Value Line* beta is 0.76. Applying these betas
635 to the market equity risk premium of 7.82% results in equity risk premiums of 4.69% and
636 5.94%, respectively.

637 **Q. HOW DID YOU DERIVE THE EQUITY RISK PREMIUM BASED ON THE S&P**
638 **UTILITY INDEX AND MOODY'S A2-RATED PUBLIC UTILITY BONDS?**

639 A. I estimated three equity risk premiums based on S&P Utility Index holding period returns,
640 and one equity risk premium based on the expected returns of the S&P Utilities Index,
641 using *Value Line*, Bloomberg, and S&P Capital IQ data. Turning first to the S&P Utility
642 Index holding period returns, I derived a long-term monthly arithmetic mean equity risk
643 premium between the S&P Utility Index total returns of 10.59% and monthly Moody's
644 A2-rated public utility bond yields of 6.42% from 1928 to 2024, to arrive at an equity risk
645 premium of 4.16%.²⁰ I then used the same historical data to derive an equity risk premium
646 of 4.87% based on a regression of the monthly equity risk premiums. The final S&P Utility

²⁰ As shown on line 1, page 9 of Schedule DWD-4.

647 Index holding period equity risk premium was calculated by applying the PRPM using the
 648 historical monthly equity risk premiums from January 1928 to January 2026 to arrive at a
 649 PRPM-derived equity risk premium of 4.21% for the S&P Utility Index.

650 I then derived expected total returns on the S&P Utilities Index of 12.16% using
 651 data from *Value Line*, Bloomberg, and S&P Capital IQ, respectively, and subtracted the
 652 prospective Moody’s A2-rated public utility bond yield of 5.65%.²¹ This resulted in an
 653 equity risk premium of 6.51%. As with the market equity risk premiums, I averaged the
 654 four risk premiums to arrive at my utility-specific equity risk premium of 4.94%.

655 **Table 7: Summary of the Calculation of the Equity Risk Premium Using**
 656 **S&P Utility Index Holding Returns²²**

Risk Premium Measure	Implied Equity Risk Premium
Historical Spread Between Total Returns of the S&P Utilities Index and A2-Rated Utility Bond Yields (1928 – 2024)	4.16%
Regression Analysis on Historical Data	4.87%
PRPM Analysis on Historical Data	4.21%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns for the S&P Utilities Index less Projected A2 Utility Bond Yields	6.51%
Average	<u>4.94%</u>

657 **Q. HOW DID YOU DERIVE AN EQUITY RISK PREMIUM OF 4.79% BASED ON**
 658 **AUTHORIZED ROES FOR ELECTRIC UTILITIES?**

659 A. The equity risk premium of 4.79% shown on page 10 of Schedule DWD-4 is the result of
 660 a regression analysis based on regulatory awarded ROEs related to the yields on Moody’s
 661 A2-rated public utility bonds and contains the graphical results of a regression analysis of
 662 1,274 rate cases for electric utilities which were fully litigated during the period from

²¹ Derived on line 3, page 1 of Schedule DWD-4.

²² As shown on page 9 of Schedule DWD-4.

663 January 1, 1980 through January 30, 2026. It shows the implicit equity risk premium
 664 relative to the yields on A2-rated public utility bonds immediately prior to the issuance of
 665 each regulatory decision. It is readily discernible that there is an inverse relationship
 666 between the yield on A2-rated public utility bonds and equity risk premiums. In other
 667 words, as interest rates decline, the equity risk premium rises and vice versa, a result
 668 consistent with financial literature on the subject.²³ I used the regression results to estimate
 669 the equity risk premium applicable to the projected yield on Moody’s A2-rated public
 670 utility bonds. Given the expected A2-rated utility bond yield of 5.65%, it can be calculated
 671 that the indicated equity risk premium applicable to that bond yield is 4.79%.

672 **Q. WHAT IS YOUR CONCLUSION OF THE RANGE OF EQUITY RISK**
 673 **PREMIUMS FOR USE IN YOUR TOTAL MARKET APPROACH RPM FOR THE**
 674 **ELECTRIC UTILITY PROXY GROUP?**

675 A. The range of equity risk premiums I applied to the Electric Utility Proxy Group is from
 676 4.81% to 5.22%, which is the average of the beta-adjusted equity risk premium for the
 677 Electric Utility Proxy Group, the S&P Utilities Index, and the authorized return utility
 678 equity risk premium.

679 **Table 8: Summary of Conclusions for the Equity Risk Premium for the**
 680 **Electric Utility Proxy Group²⁴**

Equity Risk Premium Measure	Equity Risk Premium
Beta-Adjusted Equity Risk Premium	4.69% - 5.94%
S&P Utilities Index Equity Risk Premium	4.94%
Authorized ROE Equity Risk Premium	<u>4.79%</u>
Average	4.81% - 5.22%

²³ See, e.g., Robert S. Harris and Felicia C. Marston, “The Market Risk Premium: Expectational Estimates Using Analysts’ Forecasts”, *Journal of Applied Finance*, Vol. 11, No. 1, 2001, at 11-12; Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, “The Risk Premium Approach to Measuring a Utility’s Cost of Equity”, *Financial Management*, Spring 1985, at 33-45.

²⁴ As shown on page 5 of Schedule DWD-4.

681 **Q. WHAT IS THE INDICATED RANGE OF RPM COMMON EQUITY COST**
682 **RATES BASED ON THE TOTAL MARKET APPROACH?**

683 A. As shown on line 7, page 1 of Schedule DWD-4, and shown on Table 9, below, I calculated
684 a range of indicated common equity cost rates from 10.59% to 11.00% for the Electric
685 Utility Proxy Group based on the total market approach RPM.

686 **Table 9: Summary of the Total Market Return Risk Premium Model²⁵**

Prospective Moody's Utility Bond Yield Applicable to the Electric Utility Proxy Group	5.78%
Prospective Equity Risk Premium	<u>4.81% - 5.22%</u>
Indicated Cost of Common Equity	<u>10.59% - 11.00%</u>

687 **C. The Capital Asset Pricing Model**

688 **Q. PLEASE EXPLAIN THE THEORETICAL BASIS OF THE CAPM.**

689 A. CAPM theory defines risk as the co-variability of a security's returns with the market's
690 returns as measured by the beta (β). A beta less than 1.0 indicates lower variability than
691 the market as a whole, while a beta greater than 1.0 indicates greater variability than the
692 market.

693 The CAPM assumes that all non-market or unsystematic risk can be eliminated
694 through diversification. The risk that cannot be eliminated through diversification is called
695 market, or systematic, risk. In addition, the CAPM assumes that investors only require
696 compensation for systematic risk, which is the result of macroeconomic and other events
697 that affect the returns on all assets. The model is applied by adding a risk-free rate of
698 return to a market risk premium, which is adjusted proportionately to reflect the systematic
699 risk of the individual security relative to the total market, as measured by the beta. The
700 traditional CAPM model is expressed as:

²⁵ As shown on page 1 of Schedule DWD-4.

701 $R_s = R_f + \beta (R_m - R_f)$

702 Where: $R_s =$ Return rate on the common stock;

703 $R_f =$ Risk-free rate of return;

704 $R_m =$ Return rate on the market as a whole; and

705 $\beta =$ Adjusted beta (volatility of the security relative to

706 the market as a whole).

707 Numerous tests of the CAPM have measured the extent to which security returns

708 and beta are related as predicted by the CAPM, confirming its validity. The empirical

709 CAPM (“ECAPM”) reflects the reality that while the results of these tests support the

710 notion that the beta is related to security returns, the empirical Security Market Line

711 (“SML”) described by the CAPM formula is not as steeply sloped as the predicted SML.²⁶

712 The ECAPM reflects this empirical reality.

713 **Q. WHY IS THE USE OF THE ECAPM APPROPRIATE IN DETERMINING THE**

714 **ROE FOR THE COMPANY?**

715 A. The ECAPM is a well-established model that has been relied on in both academic and

716 regulatory settings. Fama & French clearly state regarding Figure 1, below, that “[t]he

717 returns on the low beta portfolios are too high, and the returns on the high beta portfolios

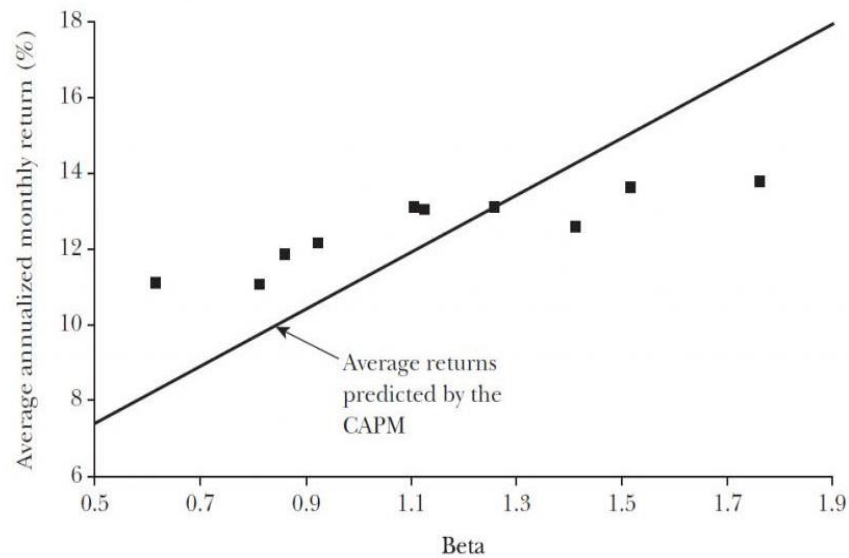
718 are too low.”²⁷

²⁶ Roger A. Morin, Modern Regulatory Finance (Public Utility Reports, Inc., 2021), at page 223 (“Morin”).

²⁷ Eugene F. Fama and Kenneth R. French, “The Capital Asset Pricing Model: Theory and Evidence”, *Journal of Economic Perspectives*, Vol. 18, No. 3, Summer 2004 at 33 (“Fama & French”).

719
720

Figure 1: Average Annualized Monthly Return versus Beta for Value Weight Portfolios Formed on Prior Beta, 1928–2003²⁸



721

722

In addition, Morin observes that while the results of these tests support the notion

723

that beta is related to security returns, the empirical SML described by the CAPM formula

724

is not as steeply sloped as the predicted SML. Morin states:

725

With few exceptions, the empirical studies agree that ... low-beta securities earn returns somewhat higher than the CAPM would predict, and high-beta securities earn less than predicted.²⁹

726

727

728

* * *

729

Therefore, the empirical evidence suggests that the expected return on a security is related to its risk by the following approximation:

730

731

$$K = RF + x (RM - RF) + (1-x) \beta(RM - RF)$$

732

where x is a fraction to be determined empirically. The value of x that best explains the observed relationship [is] Return = 0.0829 + 0.0520 β is between 0.25 and 0.30. If x = 0.25, the equation becomes:

733

734

735

736

$$K = RF + 0.25(RM - RF) + 0.75 \beta(RM - RF)^{30}$$

²⁸ <https://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162430>.

²⁹ Morin, at 207.

³⁰ Morin, at 221.

737 Fama & French provide similar support for the ECAPM when they
738 state:

739 The early tests firmly reject the Sharpe-Lintner version of the
740 CAPM. There is a positive relation between beta and average return,
741 but it is too 'flat.'... The regressions consistently find that the
742 intercept is greater than the average risk-free rate... and the
743 coefficient on beta is less than the average excess market return...
744 This is true in the early tests... as well as in more recent cross-
745 section regressions tests, like Fama and French (1992).³¹

746 Finally, Fama & French further note:

747 Confirming earlier evidence, the relation between beta and average
748 return for the ten portfolios is much flatter than the Sharpe-Linter
749 CAPM predicts. The returns on low beta portfolios are too high,
750 and the returns on the high beta portfolios are too low. For example,
751 the predicted return on the portfolio with the lowest beta is 8.3
752 percent per year; the actual return is 11.1 percent. The predicted
753 return on the portfolio with the t beta is 16.8 percent per year; the
754 actual is 13.7 percent.³²

755 Clearly, the justification from Morin and Fama & French, along with their reviews
756 of other academic research on the CAPM, validate the use of the ECAPM. Based on theory
757 and practical research, I have applied both the traditional CAPM and the ECAPM to the
758 companies in the Electric Utility Proxy Group and averaged the results.

759 **Q. IS THERE ADDITIONAL EVIDENCE THAT SUPPORTS THE VALIDITY OF**
760 **THE ECAPM?**

761 A. Yes, there is. The empirical issues with the CAPM have been present since the
762 presentation of the model, as noted by Dianna R. Harrington in her text Modern Portfolio
763 Theory & the Capital Asset Pricing Model:

764 So far we have learned some very interesting things about the CAPM and
765 reality. Some of the earliest work tested realized data (history) against data
766 generated by simulated portfolios. Early studies by Douglas (1969) and
767 Lintner (Douglas [1969]) showed discrepancies between what was
768 expected on the basis of the CAPM and the actual relationships that were

³¹ Fama & French, at 32.

³² Fama & French, at 33.

809 free proxy, but did not find the evidence to support the other BJS
810 conclusions.³³

811 Harrington discusses Black's potential solution to this phenomenon:

812 Black's replacement for the risk-free asset was a portfolio that had no
813 covariability with the market portfolio. Because the relevant risk in the
814 CAPM is systematic risk, a risk-free asset would be the one with no
815 volatility relative to the market – that is, a portfolio with a beta of zero. All
816 investor-perceived levels of risk could be obtained from various linear
817 combinations of Black's zero-beta portfolio and the market portfolio...
818 Since R_z (the rate of return of the zero-beta asset) and R_m are uncorrelated
819 (as R_f and R_m were assumed to be in the simple CAPM), the investor can
820 choose from various combinations of R_z and R_m . On segment $R_m Y$, R_z , is
821 sold short and proceeds are invested in R_m . On segment $R_z R_m$, portions of
822 the zero-beta portfolio are purchased. At R_m , the investor is fully invested
823 in the market portfolio. The equilibrium CAPM was rewritten by Black as
824 follows:

$$825 \quad E(R_i) = (1 - \beta_i) E(R_z) + \beta_i E(R_m)$$

826 Where:

827 E indicates expected,
828 $E(R_z)$ is less than $E(R_m)$, and
829 R_z holdings over the whole market must be in equilibrium.
830 That is, the number of short sellers and lenders of securities
831 must be equal.

832 Black's adaptation is intriguing. The result of using this model is a capital
833 market line that has a less steep slope and a higher intercept than those of
834 the simple CAPM. If Black's model is more correct in its description of
835 investor behavior in the marketplace, then the use of the simple model
836 would produce equity return predictions that would be too low for stocks
837 with betas greater than one and too high for stocks with betas of less than
838 one.³⁴

³³ Dianna R. Harrington, *Modern Portfolio Theory & the Capital Asset Pricing Model – A User's Guide*, Prentice-Hall, Inc. 1983, at 43-45.

³⁴ Dianna R. Harrington, *Modern Portfolio Theory & the Capital Asset Pricing Model – A User's Guide*, Prentice-Hall, Inc. 1983, at 30-31.

839 **Q. HAVE OTHER JURISDICTIONS CONSIDERED THE ECAPM?**

840 A. Yes, it has been accepted in Alaska, Minnesota, Mississippi, Nevada, New York, and
841 Virginia.³⁵

842 **Q. WHAT BETAS DID YOU USE IN YOUR CAPM ANALYSIS?**

843 A. As discussed previously, I use: (1) the average of the *Value Line* and Bloomberg betas,
844 which is consistent with prior testimony, and (2) *Value Line* betas. While both *Value Line*
845 and Bloomberg adjust their calculated (or “raw”) betas to reflect the tendency of beta to
846 regress to the market mean of 1.00, *Value Line* calculates beta over a five-year period,
847 while Bloomberg’s calculation is based on two years of data.

848 **Q. WHY ARE YOU PRESENTING YOUR MODEL RESULTS EXCLUSIVELY**
849 **USING *VALUE LINE* BETAS ALONGSIDE YOUR TRADITIONAL ANALYSIS?**

850 A. I am presenting my updated model results in this way because recent and historical data
851 show that Bloomberg betas may not accurately reflect the risk of the Electric Utility Proxy
852 Group at this time.

³⁵ The Regulatory Commission of Alaska, Docket P-97-7, Order Rejecting 1997, 1998, 1999 and 2000 Filed TAPS Rates; Setting Just and Reasonable Rates; Requiring Refunds and Filings; and Outlining Phase II Issues, November 27, 2002, at 146; Minnesota Public Utilities Commission, MPUC Docket No. G011/GR-15-736, In the Matter of the Application of Minnesota Energy Resources Corporation for Authority to Increase Rates for Natural Gas Service in Minnesota, Findings of Fact, Conclusions of Law, and Recommendation, August 19, 2016, at 29; Mississippi Public Service Commission, Docket No. 01-UN-0548, Notice of Intent of Mississippi Power Company to Change Rates for Electric Service in its Certificated Areas in the Twenty-Three Counties of Southeast Mississippi, Final Order, December 3, 2001, at 19; Public Utilities Commission of Nevada, Docket No. 20-02023, Application of Southwest Gas Corporation for authority to increase its retail natural gas utility service rates for Southern and Northern Nevada, Order, September 23, 2020, at 35; New York Public Service Commission, Case 16-G-0058, Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of KeySpan Gas East Corporation d/b/a National Grid for Gas Service, Order Adopting Terms of Joint Proposal and Establishing Gas Rate Plans, December 16, 2016, at 32; In the Matter of Application of Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina for Adjustment of Rates and Charges Applicable to Electric Service in North Carolina, Docket No. E-22, Sub 562 Order Accepting Public Staff Stipulation in Part, Accepting CIGFUR Stipulation, Deciding Contested Issues, and Granting Partial Rate Increase, February 24, 2020, at 40.

853 **Q. HOW DOES BLOOMBERG CALCULATE BETA?**

854 A. As discussed above, beta is the covariance of a stock relative to a market index divided
855 by the variance of the market return. Bloomberg calculates its beta using two years of
856 weekly return data relative to the S&P 500 Index.

857 **Q. WHAT IS A COVARIANCE?**

858 A. A covariance is comprised of two measures: (1) the relative volatility of the stock, which
859 is the standard deviation of the weekly returns of the stock divided by the standard
860 deviation of the weekly return of the index returns;³⁶ and (2) the correlation of weekly
861 stock and market index returns.³⁷

862 **Q. WHAT HAS THE BLOOMBERG BETA BEEN FOR THE ELECTRIC UTILITY**
863 **PROXY GROUP SINCE 2005?**

864 A. As shown in Chart 1, below, the Electric Utility Proxy Group average adjusted beta
865 generally has ranged between 0.60 and 0.80, with some high side exceptions (2007-2008
866 and 2020-2022) and low side exceptions (2016-2020, second half 2024 – present).

³⁶ A relative volatility greater than 1.0 indicates that particular security is more volatile than the market during that calculation period. A relative volatility below 1.0 indicates that the security has less volatility than the market over that calculation period.

³⁷ Correlations range from negative one to positive one. The closer the correlation is to zero the weaker the relationship. Positive values indicate a positive correlation, where the values of both variables tend to increase together

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868

**Chart 1: Bloomberg Adjusted beta for the Electric Utility Proxy Group 2005-
Present³⁸**



869
870

871 **Q. WHAT HAVE THE COMPONENTS OF BETA (I.E., RELATIVE VOLATILITY**
872 **AND CORRELATION) SHOWN DURING THAT PERIOD?**

873 A. As shown on Chart 2, the Electric Utility Proxy Group’s relative volatility was generally
874 above 1.0, indicating higher volatility than the S&P 500. On Chart 3, the two-year rolling
875 correlation between the Electric Utility Proxy Group and the S&P 500 has varied over the
876 period 2005 – 2026.

³⁸ Source of Information: Bloomberg Professional Services.

877

Chart 2: Relative Volatility for the Utility Proxy Group 2005-Present³⁹

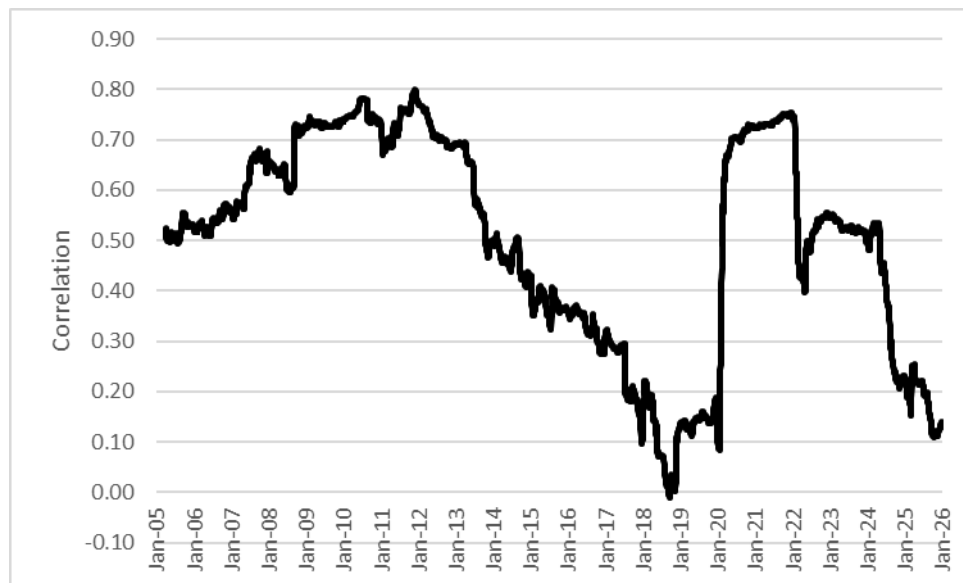


878

879

880

Chart 3: Correlation of the Utility Proxy Group Relative to the S&P 500 Index 2005-Present⁴⁰



881

882

Importantly, as shown on Chart 3, during market distress (i.e., the Great Recession

883

and the COVID-19 pandemic), the correlation of the Electric Utility Proxy Group returns

884

and the S&P 500 returns approached 1.0, showing that utilities, as represented by the

885

Electric Utility Proxy Group, do not possess defensive qualities and should not be

³⁹ Source of Information: S&P Capital IQ.

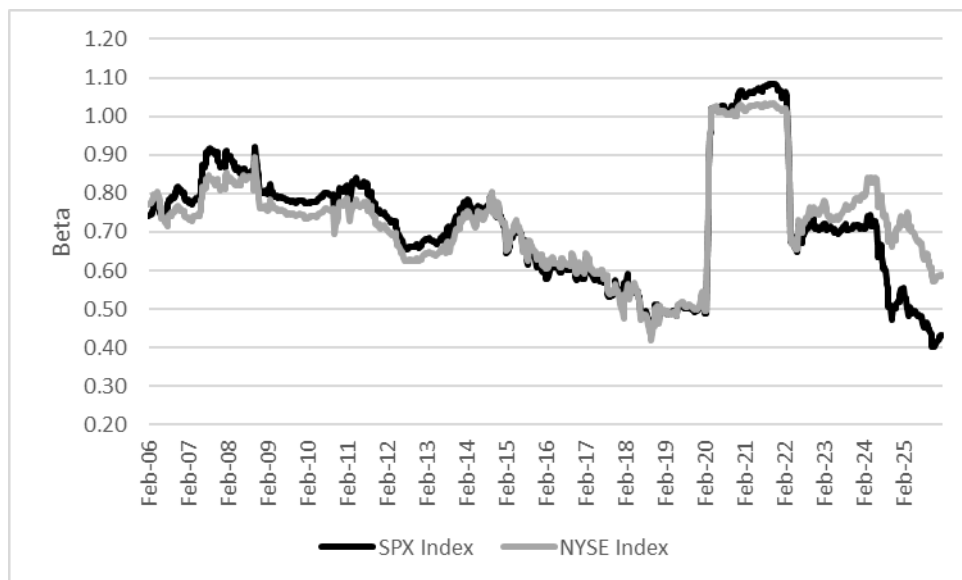
⁴⁰ Source of Information: S&P Capital IQ.

886 considered defensive stocks nor are they safe harbor investments in times of market
887 distress.

888 **Q. DOES THE LOWER CORRELATION OF THE ELECTRIC UTILITY PROXY**
889 **GROUP RETURNS RELATIVE TO THE S&P 500 RETURNS ALONE**
890 **NECESSITATE THE EXCLUSION OR MITIGATION OF BLOOMBERG**
891 **BETAS?**

892 A. No. Just as the investor required return varies under different market conditions, so do
893 the model inputs. To determine whether Bloomberg’s default betas calculated relative to
894 the S&P 500 Index accurately reflect the risk of the Electric Utility Proxy Group, I
895 compared them with betas calculated using two years of weekly returns relative to the New
896 York Stock Exchange (“NYSE”). The comparison between two-year S&P 500 and NYSE
897 betas are put forth in Chart 4, below:

898 **Chart 4: Comparison of Two-Year S&P 500 and NYSE Betas for the**
899 **Electric Utility Proxy Group 2005-Present⁴¹**



900

⁴¹ Source of Information: Bloomberg Professional Services.

901 As shown on Chart 4, the two-year S&P 500 and NYSE betas are generally
902 consistent until approximately 2024, when the spread between them expanded beyond
903 historical ranges as shown on Chart 5, below:

904 **Chart 5: Spread Between Two-Year S&P and NYSE Betas for the**
905 **Electric Utility Proxy Group 2005-Present⁴²**



906 In view of Chart 5, it is clear that the relationship between the S&P 500 and NYSE
907 is dislocated. To determine which index was distorting the risk of the Electric Utility Proxy
908 Group, I compared the S&P 500 returns with those of the NYSE and other market indices.
909

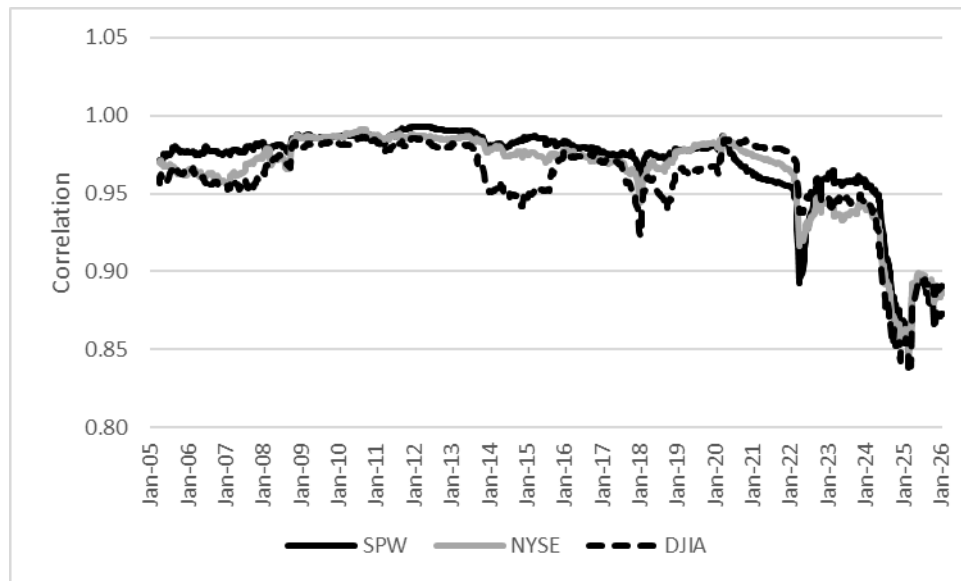
910 **Q. WHICH MARKET INDICES DID YOU USE IN YOUR COMPARISON?**

911 A. In my comparison, I ran correlations between the returns of the S&P 500 and three other
912 market indices: (1) the NYSE; (2) the Dow Jones Industrial Average (“DJIA”); and (3) the
913 S&P 500 Equal Weighed Index (“SPW”). I ran the correlations for the same 2005-2026
914 period in the prior charts, which is put forth in Schedule DWD-5 and Chart 6, below:

⁴² Source of Information: Bloomberg Professional Services.

915
916

**Chart 6: Correlation between the S&P 500 Relative to Various Market Indices
2005-Present⁴³**



917
918

As shown in Chart 6, the two-year rolling correlation between the S&P 500's

919

returns and the other market indices' returns generally ranged between 0.95 and 1.00 for

920

the entire period but has recently dipped below 0.85 for each of the measures, indicating

921

that the relationship between the S&P 500 and the other market indices is strained. As

922

shown on pages 2 through 4 of Schedule DWD-5, the two-year rolling correlations of the

923

other market indices are within historical boundaries, whereas, as shown in Chart 6, the

924

correlation in returns between the S&P 500 and the other three indices dropped below 0.90

925

for an extended period of time. Stated differently, the recent relationship between the S&P

926

500 Index and the other market indices is inconsistent with their historical relationships,

927

while the other market indices have maintained their historical relationships with each

928

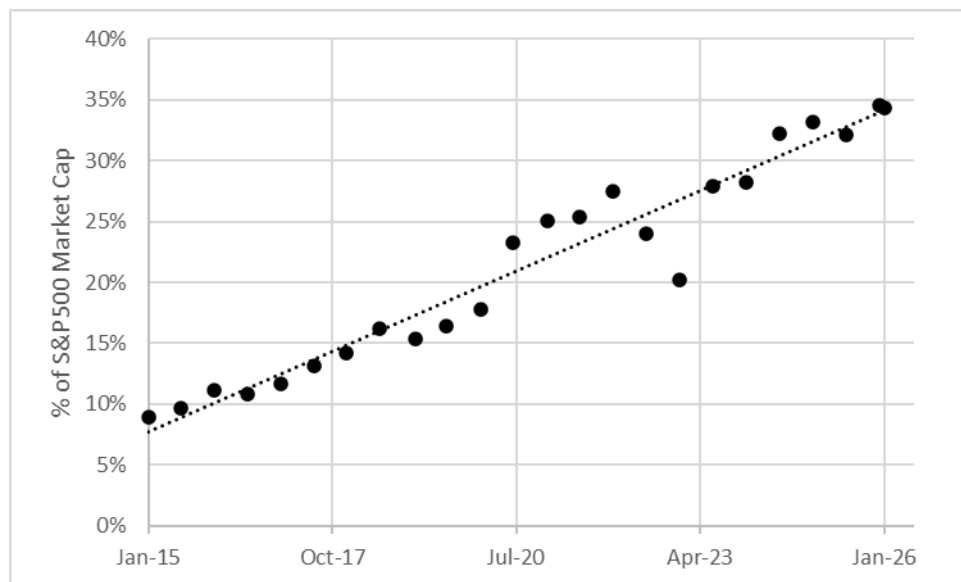
other.

⁴³ Source of Information: Bloomberg Professional Services.

929 **Q. WHY IS THE RELATIONSHIP BETWEEN THE S&P 500 AND OTHER**
930 **MARKET INDICES DEGRADING?**

931 A. I believe that the concentration of the “Magnificent Seven”⁴⁴ (“Mag7”) as a percentage of
932 the S&P 500 market capitalization could explain why the two-year rolling correlations
933 between the S&P 500 and the other market indices are degrading. Since 2015, the Mag7
934 stocks’ percentage of the S&P 500 market capitalization has increased from 8.91% to
935 34.34%, as shown on Chart 7, below:

936 **Chart 7: Magnificent Seven Stocks Percentage of S&P 500 Market Capitalization**
937 **2015-Present⁴⁵**



938
939 **Q. DOES THE CONCENTRATION AFFECT THE CALCULATION OF BETA FOR**
940 **THE ELECTRIC UTILITY PROXY GROUP?**

941 A. Yes, it does. I evaluated the two-year rolling correlation between the Utility Proxy
942 Group’s weekly returns and those returns for the Mag7 and the remaining 493 companies
943 that comprise the S&P 500 index. As shown on Table 10, below, the Electric Utility Proxy

⁴⁴ The “Magnificent Seven” stocks are: (1) Apple, Inc.; (2) Amazon.com, Inc.; (3) Alphabet, Inc.; (4) Meta Platforms, Inc.; (5) Microsoft Corporation; (6) NVIDIA Corporation; and (7) Tesla, Inc.

⁴⁵ Source of Information: Bloomberg Professional Services.

944 Group's returns had a **negative** 0.1501 correlation with the Mag7 returns and a **positive**
945 0.3205 correlation with the rest of the S&P 500, indicating opposite relationships between
946 the Electric Utility Proxy Group and the two subsets of the S&P 500.

947 **Table 10: Correlation between the Electric Utility Proxy Group's Weekly Returns**
948 **and those of the Magnificent Seven Stocks and the Remaining 493 Component**
949 **Companies of the S&P 500 January 30, 2026⁴⁶**

	Correlation Coefficient 1/30/2026	
	Mag7	Remaining 493
Utility Proxy Group Weekly Returns	-0.1501	0.3205

950 Given the disconnection of the relationship between the Mag7 and the remaining
951 members of the S&P 500 Index relative to the Electric Utility Proxy Group, the
952 concentration of the Mag7 stocks within the S&P 500 Index, and the S&P 500's degrading
953 relationship to other market indices, Bloomberg betas do not accurately reflect the risk of
954 the Electric Utility Proxy Group as compared to the market, and therefore should be viewed
955 with caution.

956 **Q. PLEASE SUMMARIZE YOUR REASONING AS IT PERTAINS TO YOUR USE**
957 **OF BETA IN YOUR ANALYSIS.**

958 A. While the cost of capital and the inputs to cost of capital models vary based on market
959 conditions, these variations should not lead an analyst to eliminate or mitigate a specific
960 input. After investigating historical relationships between betas calculated relative to the
961 S&P 500 and NYSE and the relative volatility and correlation of those betas, I discovered
962 that these relationships are currently not within historical ranges and needed to be
963 investigated further. I then compared returns for the S&P 500 to those of the NYSE, SPW,
964 and DJIA and discovered that those relationships have also departed from historical
965 benchmarks. Importantly, the NYSE, SPW, and DJIA continue to show high levels of

⁴⁶ Source of Information: S&P Capital IQ.

966 correlation with each other. I then investigated the companies that comprised the S&P 500
967 and found that the Mag7 stocks' return now has an outsized influence on the return of the
968 S&P 500. Looking at the correlations of Electric Utility Proxy Group returns related to
969 Mag7 stocks and the remaining 493 stocks that comprise the S&P 500 Index, I discovered
970 opposite relationships (i.e., negative correlation with Mag7 stocks and positive correlations
971 with the remaining 493 stocks). Given the above, I believe that using the S&P 500 Index
972 to calculate betas may not accurately reflect the risk of the Electric Utility Proxy Group
973 and therefore should be viewed with caution. To reflect this in my analysis, I present my
974 analysis using my traditional application of the models as presented in prior testimonies in
975 Pennsylvania and elsewhere, and also present my model results exclusively using *Value*
976 *Line* betas, which are calculated relative to the NYSE.

977 **Q. PLEASE DESCRIBE YOUR SELECTION OF A RISK-FREE RATE OF RETURN.**

978 A. As shown in Schedule DWD-6, the risk-free rate for both applications of the CAPM is
979 4.74%. This risk-free rate is based on the average of the *Blue Chip* consensus forecast of
980 the expected yields on 30-year U.S. Treasury bonds for the six quarters ending with the
981 second calendar quarter of 2027, and long-term projections for the years 2027 to 2031 and
982 2032 to 2036.

983 **Q. WHY DID YOU USE THE PROJECTED 30-YEAR TREASURY YIELD IN YOUR**
984 **ANALYSES?**

985 A. The yield on long-term U.S. Treasury bonds is almost risk-free and its term is consistent
986 with the long-term cost of capital to public utilities measured by the yields on Moody's
987 A2-rated public utility bonds; the long-term investment horizon inherent in utilities'
988 common stocks; and the long-term life of the jurisdictional rate base to which the allowed

989 fair rate of return (i.e., cost of capital) will be applied. In contrast, short-term U.S. Treasury
990 yields are more volatile and largely a function of Federal Reserve monetary policy.

991 **Q. PLEASE EXPLAIN THE ESTIMATION OF THE EXPECTED RISK PREMIUM**
992 **FOR THE MARKET USED IN YOUR CAPM ANALYSIS.**

993 A. The basis of the market risk premium is explained in detail in note 1 on page 3 of Schedule
994 DWD-6. As discussed above, the market risk premium is derived from an average of three
995 historical data-based market risk premiums, one *Value Line* data-based market risk
996 premium, and one *Value Line*, Bloomberg, and S&P Capital IQ data-based market risk
997 premium.

998 The long-term income return on U.S. Government securities of 4.99% was
999 deducted from the monthly historical total market return of 12.29%, which results in an
1000 historical market equity risk premium of 7.31%.⁴⁷ I applied a linear OLS regression to the
1001 monthly annualized historical returns on the S&P 500 relative to historical yields on long-
1002 term U.S. Government Securities. That regression analysis yielded a market equity risk
1003 premium of 7.73%. The PRPM market equity risk premium is 7.74% and is derived using
1004 the PRPM relative to the yields on long-term U.S. Treasury securities from January 1926
1005 through January 2026.⁴⁸

1006 The *Value Line*-derived forecasted total market equity risk premium is calculated
1007 by subtracting the forecasted risk-free rate of 4.74%, discussed above, from the *Value Line*
1008 projected total annual market return of 11.12%, resulting in a forecasted total market equity
1009 risk premium of 6.38%.

⁴⁷ SBBI - 2023, at Appendix A-1 (1) through A-1 (3) and Appendix A-7 (19) through A-7 (21); Bloomberg Professional Services.

⁴⁸ As shown on page 3 of Schedule DWD-6.

1010 The S&P 500 projected market equity risk premium using *Value Line*, Bloomberg,
 1011 and S&P Capital IQ data is derived by subtracting the projected risk-free rate of 4.74%
 1012 from the projected total return of the S&P 500 of 18.62%. The resulting market equity
 1013 risk premium is 13.88%.

1014 When averaged, these five market risk premium measures result in an average total
 1015 market equity risk premium of 8.61%.

1016 **Table 11: Summary of the Calculation of the Market Risk Premium**
 1017 **for Use in the CAPM⁴⁹**

Market Risk Premium Calculation Method	Market Risk Premium
Historical Spread Between Total Returns of Large Stocks and Long-Term Government Bond Yields (1926 – 2024)	7.31%
Regression Analysis on Historical Data	7.73%
PRPM Analysis on Historical Data	7.74%
Prospective Equity Risk Premium using Total Market Returns from <i>Value Line</i> Summary & Index less Projected 30-Year Treasury Bond Yields	6.38%
Prospective Equity Risk Premium using Measures of Capital Appreciation and Income Returns from for the S&P 500 less Projected 30-Year Treasury Bond Yields	<u>13.88%</u>
Average	<u>8.61%</u>

1018 **Q. WHAT ARE THE RESULTS OF YOUR APPLICATION OF THE TRADITIONAL**
 1019 **AND EMPIRICAL CAPM TO THE ELECTRIC UTILITY PROXY GROUP?**

1020 A. As shown on pages 1 and 2 of Schedule DWD-6, the average of the mean and median
 1021 CAPM result using my traditional approach is 10.22%. The average of the mean and
 1022 median CAPM using only *Value Line* betas is 11.45%. Given the above, a reasonable
 1023 range of CAPM cost rates is from 10.22% to 11.45%.

⁴⁹ As shown on page 3 of Schedule DWD-6.

1024 **D. Common Equity Cost Rates for Proxy Group of Domestic, Non-Price Regulated**
1025 **Companies based on the DCF, RPM, and CAPM**

1026 **Q. WHY DO YOU ALSO CONSIDER PROXY GROUP OF DOMESTIC, NON-PRICE**
1027 **REGULATED COMPANIES?**

1028 A. Since the purpose of rate regulation is to be a substitute for marketplace competition, non-
1029 price regulated firms operating in the competitive marketplace make an excellent proxy if
1030 they are comparable in total risk to the Electric Utility Proxy Group being used to estimate
1031 the cost of common equity. The selection of such domestic, non-price regulated
1032 competitive firms theoretically and empirically results in a proxy group that is comparable
1033 in total risk to the Electric Utility Proxy Group, since all of these companies compete for
1034 capital in the exact same markets. Moreover, *Hope*, and *Bluefield* cases do not specify that
1035 comparable risk companies had to be utilities.

1036 **Q. HOW DID YOU SELECT NON-PRICE REGULATED COMPANIES THAT ARE**
1037 **COMPARABLE IN TOTAL RISK TO THE ELECTRIC UTILITY PROXY**
1038 **GROUP?**

1039 A. In order to select a proxy group of domestic, non-price regulated companies similar in total
1040 risk to the Electric Utility Proxy Group, I relied on betas and related statistics derived from
1041 *Value Line* regression analyses of weekly market prices over the most recent 260 weeks
1042 (i.e., five years). As shown on Schedule DWD-7, these selection criteria resulted in a
1043 proxy group of forty-two domestic, non-price regulated firms comparable in total risk to
1044 the Electric Utility Proxy Group. Total risk is the sum of non-diversifiable market risk and
1045 diversifiable company-specific risks. The criteria used in selecting the domestic, non-price
1046 regulated firms were:

1047 (i) They must be covered by *Value Line* (Standard Edition);

- 1048 (ii) They must be domestic, non-price regulated companies, i.e., not utilities;
- 1049 (iii) Their unadjusted betas must lie within plus or minus two standard
- 1050 deviations of the average unadjusted beta of the Electric Utility Proxy
- 1051 Group; and
- 1052 (iv) The residual standard errors of the *Value Line* regressions, which gave rise
- 1053 to the unadjusted betas, must lie within plus or minus two standard
- 1054 deviations of the average residual standard error of the Electric Utility
- 1055 Proxy Group.

1056 Betas measure market, or systematic, risk, which is not diversifiable. The residual

1057 standard errors of the regressions measure each firm's company-specific, diversifiable risk.

1058 Companies that have similar betas and similar residual standard errors resulting from the

1059 same regression analyses have similar total investment risk.

1060 **Q. DID YOU CALCULATE COMMON EQUITY COST RATES USING THE DCF**

1061 **MODEL, THE RPM, AND THE CAPM FOR THE NON-PRICE REGULATED**

1062 **PROXY GROUP?**

1063 A. Yes. Because the DCF model, RPM, and CAPM have been applied in an identical manner

1064 as described above, I will not repeat the details of the rationale and application of each

1065 model. One exception is in the application of the RPM, where I did not use public utility-

1066 specific equity risk premiums.

1067 Page 2 of Schedule DWD-8 derives the constant growth DCF model common

1068 equity cost rate. As shown, the indicated common equity cost rate, using the constant

1069 growth DCF for the Non-Price Regulated Proxy Group comparable in total risk to the

1070 Electric Utility Proxy Group, is 11.45%.

1071 Pages 3 through 5 of Schedule DWD-8 contain the data and calculations that

1072 support the range of indicated RPM common equity cost rates from 12.83% to 13.62%.
1073 As shown on line 1, page 3 of Schedule DWD-8, the consensus prospective yield on
1074 Moody's Baa2-rated corporate bonds for the six quarters ending in the second quarter of
1075 2027, and for the years 2027 to 2031 and 2032 to 2036, is 6.13%.⁵⁰ Since the Non-Price
1076 Regulated Proxy Group has an average Moody's long-term issuer rating of A3, another
1077 adjustment to the expected Baa2-rated public utility bond is needed to reflect the difference
1078 in bond ratings. A downward adjustment of 0.18%, which represents two-thirds of a recent
1079 spread between A2-rated and Baa2-rated corporate bond yields, is necessary to make the
1080 prospective bond yield applicable to an A3-rated corporate bond.⁵¹ Subtracting the 0.18%
1081 from the 6.13% prospective Baa2-rated corporate bond yield results in a 5.95% expected
1082 bond yield applicable to the Non-Price Regulated Proxy Group.

1083 When beta-adjusted risk premiums of 6.88% and 7.66%⁵² relative to the Non-Price
1084 Regulated Proxy Group are added to the prospective A2-rated corporate bond yield of
1085 5.95%, the indicated range of RPM common equity cost rates is from 12.83% to 13.62%.

1086 Pages 6 and 7 of Schedule DWD-8 contain the inputs and calculations that support
1087 my range of indicated CAPM/ECAPM common equity cost rates from 12.46% to 13.21%.

1088 **Q. WHAT IS THE INDICATED RANGE OF COMMON EQUITY COST RATES**
1089 **BASED ON THE NON-PRICE REGULATED PROXY GROUP COMPARABLE**
1090 **IN TOTAL RISK TO THE ELECTRIC UTILITY PROXY GROUP?**

1091 A. As shown on page 1 of Schedule DWD-8, the results of the common equity models applied
1092 to the Non-Price Regulated Proxy Group – which is comparable in total risk to the Electric
1093 Utility Proxy Group – are as follows:

⁵⁰ *Blue Chip Financial Forecasts*, December 1, 2025 at 14 and January 30, 2026 at 2.

⁵¹ As shown on line 2 and explained in note 2, page 3 of Schedule DWD-8.

⁵² Derived on page 5 of Schedule DWD-8.

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1095

**Table 12: Summary of Model Results Applied to the
Non-Price Regulated Proxy Group⁵³**

Discounted Cash Flow Model	11.45%
Risk Premium Model	12.83% - 13.62%
Capital Asset Pricing Model	<u>12.46% - 13.21%</u>
Mean	<u>12.25% - 12.76%</u>
Median	<u>12.46% - 13.21%</u>
Average of Mean and Median	<u>12.35% - 12.98%</u>

1096
1097

The average of the mean and median of these models indicates a range of cost rates from 12.35% to 12.98%.

1098

VII. RANGE OF COMMON EQUITY COST RATES BEFORE ADJUSTMENTS

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1100

Q. WHAT IS THE RANGE OF INDICATED COMMON EQUITY COST RATES PRODUCED BY YOUR ROE MODELS?

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1102
1103
1104
1105
1106
1107
1108
1109

A. The range of indicated ROEs produced from my analysis is from 10.22% to 12.98%. The indicated results of the DCF model, RPM, and CAPM fall within that indicated range. I used multiple cost of common equity models as primary tools in arriving at my recommended common equity cost rate, because no single model is so inherently precise that it can be relied on to the exclusion of other theoretically sound models. Using multiple models adds reliability to the estimated common equity cost rate, and the prudence of using multiple cost of common equity models is supported in both the financial literature and regulatory precedent. Based on these common equity cost results, I conclude that a range of common equity cost rates between 10.22% and 12.98% is reasonable.

⁵³ As shown on page 1 of Schedule DWD-8.

1110 **VIII. ADJUSTMENTS TO THE COMMON EQUITY COST RATE**

1111 **Q. IS IT NECESSARY TO CONDUCT A RELATIVE RISK ANALYSIS BETWEEN**
1112 **THE ELECTRIC UTILITY PROXY GROUP AND THE COMPANY?**

1113 A. Yes. After a proxy group-specific ROE is determined, one must conduct a relative risk
1114 analysis to determine whether additional adjustments need to be made to reflect the unique
1115 risk of the subject company.

1116 **A. Business Risk Adjustment**

1117 **Q. DOES UGI'S SMALLER SIZE RELATIVE TO THE ELECTRIC UTILITY**
1118 **PROXY GROUP COMPANIES INCREASE ITS BUSINESS RISK?**

1119 A. Yes. UGI Electric's electric distribution operations are significantly smaller in size
1120 relative to the Electric Utility Proxy Group companies, indicating greater relative business
1121 risk for the Company because, all else equal, size has a material bearing on risk.

1122 Size affects business risk because smaller companies generally are less able to cope
1123 with significant events that affect sales, revenues, and earnings. For example, smaller
1124 companies face more risk exposure to business cycles and economic conditions, both
1125 nationally and locally. Additionally, the loss of revenues from a few larger customers
1126 would have a greater effect on a small company than on a bigger company with a larger,
1127 more diverse customer base.

1128 As further evidence illustrates that smaller firms are riskier, investors generally
1129 demand greater returns from smaller firms to compensate for less marketability and
1130 liquidity of their securities. Kroll's Cost of Capital Navigator: U.S. Cost of Capital Module
1131 ("Kroll") discusses the nature of the small-size phenomenon, providing an indication of
1132 the magnitude of the size premium based on several measures of size. In discussing "Size
1133 as a Predictor of Equity Premiums," Kroll states:

1134 The size effect is based on the empirical observation that companies of
1135 smaller size are associated with greater risk and, therefore, have greater cost
1136 of capital [sic]. The “size” of a company is one of the most important risk
1137 elements to consider when developing cost of equity capital estimates for
1138 use in valuing a business simply because size has been shown to be a
1139 *predictor* of equity returns. In other words, there is a significant (negative)
1140 relationship between size and historical equity returns - as size *decreases*,
1141 returns tend to *increase*, and vice versa. (footnote omitted) (emphasis in
1142 original)⁵⁴

1143 Furthermore, in “The Capital Asset Pricing Model: Theory and Evidence,” Fama
1144 and French note that size is indeed a risk factor that must be reflected when estimating the
1145 cost of common equity. On page 38, they note:

1146 . . . the higher average returns on small stocks and high book-to-market
1147 stocks reflect unidentified state variables that produce undiversifiable risks
1148 (covariances) in returns not captured in the market return and are priced
1149 separately from market betas.⁵⁵

1150 Based on this evidence, Fama and French proposed their three-factor model, which
1151 includes a size variable to recognize the effect size has on the cost of common equity.

1152 Also, it is a basic financial principle that the use of funds invested, not the source
1153 of funds, gives rise to the risk of any investment.⁵⁶ Eugene Brigham, a well-known
1154 authority, states:

1155 A number of researchers have observed that portfolios of small-firms (sic)
1156 have earned consistently higher average returns than those of large-firm
1157 stocks; this is called the “small-firm effect.” On the surface, it would seem
1158 to be advantageous to the small firms to provide average returns in a stock
1159 market that are higher than those of larger firms. In reality, it is bad news
1160 for the small firm; **what the small-firm effect means is that the capital
1161 market demands higher returns on stocks of small firms than on
1162 otherwise similar stocks of the large firms.** (emphasis added)⁵⁷

⁵⁴ Kroll: Cost of Capital Navigator: U.S. Cost of Capital Module, “Size as a Predictor of Equity Returns,” at 1.

⁵⁵ Fama & French, at 25-43.

⁵⁶ Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance (McGraw-Hill Book Company, 1996), at 204-205, 229.

⁵⁷ Eugene F. Brigham, Fundamentals of Financial Management, Fifth Edition (The Dryden Press, 1989), at 623.

1163 Consistent with the financial principle of risk and return discussed above, increased
1164 relative risk due to small size must be considered in the allowed rate of return on common
1165 equity. Therefore, the Commission’s authorization of a cost rate of common equity in this
1166 proceeding must appropriately reflect the unique risks of UGI Electric’s electric
1167 distribution operations, including its small size, which is justified and supported above by
1168 evidence in the financial literature.

1169 **Q. INTERVENING WITNESSES OFTEN CITE A STUDY BY DR. ANNIE WONG**
1170 **FOR THE PROPOSITION THAT THERE IS NO SIZE PREMIUM FOR**
1171 **UTILITIES. DOES THIS STUDY ESTABLISH THAT CONTENTION?**

1172 A. No, it does not. In the Wong study, Dr. Wong attempted to relate a change in beta to the
1173 size effect. Dr. Wong’s beta study is incorrect, as beta is a measure of market risk, whereas
1174 size is a company-specific, or diversifiable risk. While betas may contain some measure
1175 of diversifiable risk, betas have low explanatory power. As shown in Schedule DWD-10,
1176 the R-Squared, which measures the variability of returns applicable to beta, is
1177 approximately 0.40 for my Electric Utility Proxy Group, which means approximately 60%
1178 of the Electric Utility Proxy Group’s returns are unexplained by beta.

1179 **Q. IS THERE ALSO A PUBLISHED RESPONSE TO DR. WONG’S ARTICLE?**

1180 A. Yes, there is. In response to Professor Wong’s article, *The Quarterly Review of Economics*
1181 *and Finance* published an article in 2003, authored by Thomas M. Zepp, which commented
1182 on the Wong article often cited by intervening witnesses. Relative to Dr. Wong’s results,
1183 Dr. Zepp concluded in the Abstract on page 1 of his article: “Her weak results, however,
1184 do not rule out the possibility of a small firm effect for utilities.”⁵⁸ Dr. Zepp also noted on

⁵⁸ Thomas M. Zepp, “Utility Stocks and the Size Effect --- Revisited”, *The Quarterly Review of Economics and Finance*, 43 (2003), at 578-582.

1185 page 582 that: “Two other studies discussed here support a conclusion that smaller water
1186 utility stocks are more risky than larger ones. To the extent that water utilities are
1187 representative of all utilities, there is support for smaller utilities being more risky than
1188 larger ones.”⁵⁹

1189 **Q. HAVE YOU PERFORMED STUDIES LINKING SIZE AND RISK FOR UTILITY**
1190 **COMPANIES?**

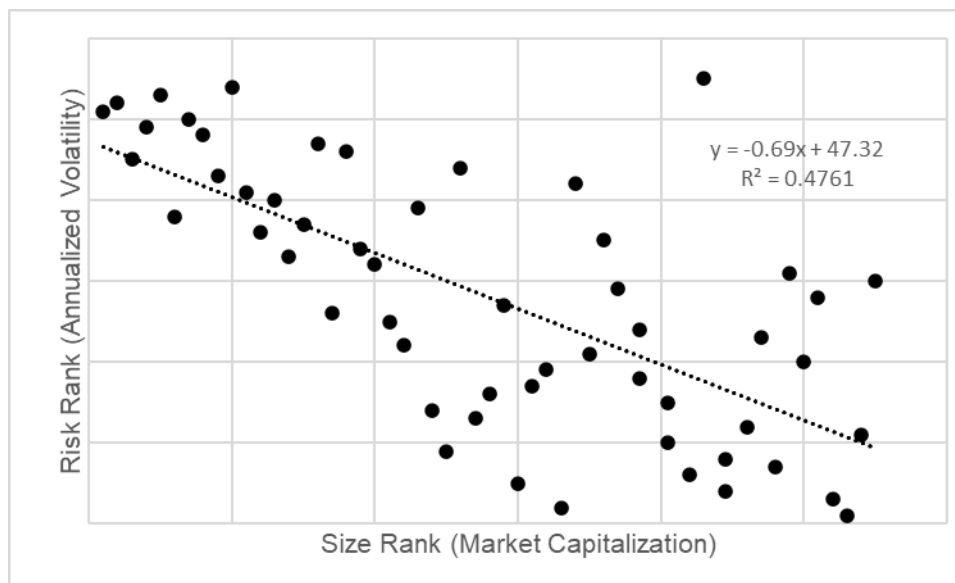
1191 A. Yes, I have performed two studies that link size and risk for utility companies. My first
1192 study included the universe of electric, gas, and water companies included in *Value Line*
1193 Standard Edition. For each of the utilities, the annualized volatility (a measure of risk)⁶⁰
1194 was calculated, and each company was ranked by its current market capitalization (a
1195 measure of size) as reported by *Value Line*. Ranking the companies by size (smallest to
1196 largest) and risk (most risky to least risky) results in the scatterplot shown on Chart 8,
1197 below:

⁵⁹ Thomas M. Zepp, “Utility Stocks and the Size Effect --- Revisited”, *The Quarterly Review of Economics and Finance*, 43 (2003), at 578-583.

⁶⁰ Annualized volatility equals the standard deviation of returns over the period multiplied by the square root of 252, or the approximate number of trading days in a year.

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Chart 8: Relationship Between Size and Risk for the *Value Line* Universe of Utility Companies⁶¹



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As shown in Chart 8 above, as company size decreases (increasing size rank), the annualized volatility increases, linking size and risk for utilities, which is significant at 95.0% confidence level.

The second study used the same universe of companies, but instead of annualized volatility, I used the *Value Line* Safety Ranking, which is another measure of total risk.⁶² After ranking the companies by size and Safety Ranking, I made a scatterplot of those data, as shown on Chart 9, below:

⁶¹ Source: *Value Line*

⁶² *Value Line* also ranks stocks for Safety by analyzing the total risk of a stock compared to the approximately 1,700 stocks in the *Value Line* universe. Each of the stocks tracked in the *Value Line Investment Survey* is ranked in relationship to each other, from 1 (the highest rank) to 5 (the lowest rank). Safety is a quality rank, not a performance rank, and stocks ranked 1 and 2 are most suitable for conservative investors; those ranked 4 and 5 will be more volatile. Volatility means prices can move dramatically and often unpredictably, either down or up. The major influences on a stock's Safety rank are the company's financial strength, as measured by balance sheet and financial ratios, and the stability of its price over the past five years.

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Chart 9: Relationship Between Size and Safety Ranking for the *Value Line* Universe of Utility Companies⁶³



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Similar to the first study, as company size decreases, Safety Ranking degrades, indicating a link between size and risk for utilities. This study is also significant at the 95% confidence level. The assertion that size and risk are not linked for utility companies should be dismissed by the Commission.

1216 **Q. IS THERE A WAY TO QUANTIFY A RELATIVE RISK ADJUSTMENT DUE TO**
1217 **UGI ELECTRIC'S GREATER BUSINESS RISK RELATIVE TO THE ELECTRIC**
1218 **UTILITY PROXY GROUP?**

1219 **A.** Yes. In the absence of other empirical methods, I compared UGI Electric's and the Electric
1220 Utility Proxy Group's relative size, as measured by market capitalization on January 30,
1221 2026.

⁶³ Source: *Value Line*.

1222
1223
1224

Table 13: Size as Measured by Market Capitalization for the Company and the Electric Utility Proxy Group

	Market Capitalization* (\$ Millions)	Times Greater Than the Company
UGI Electric	\$226.117	
Electric Utility Proxy Group Median	\$ 23,964.392	105.98x
*From page 1 of Schedule DWD-9.		

1225 The Company’s market capitalization was at \$226.117 million as of January 30,
1226 2026, compared with the median market capitalization of the Electric Utility Proxy Group
1227 of \$23.964 billion as of January 30, 2026. The Electric Utility Proxy Group’s market
1228 capitalization is 105.98 times the size of UGI Electric’s electric distribution operation’s
1229 market capitalization.

1230 As a result, it is necessary to upwardly adjust the indicated range of common equity
1231 cost rates to reflect UGI Electric’s significantly greater risk due to its smaller relative size.
1232 The determination is based on the size premiums for portfolios of New York Stock
1233 Exchange, American Stock Exchange, and NASDAQ listed companies ranked by deciles
1234 for the 1926 to 2024 period. The average size premium for the Electric Utility Proxy Group
1235 with a market capitalization of \$23.964 billion falls in the 2nd decile, while UGI Electric’s
1236 market capitalization of \$226.117 million places the Company in the 10th decile. The size
1237 premium spread between the 2nd decile and the 10th decile is 4.14%. Even though a 4.14%
1238 upward size adjustment is indicated, I conservatively applied a size premium of 0.40% to
1239 UGI Electric’s indicated range of common equity cost rates.

1240 **Q. DOES THIS COMMISSION CONSIDER SIZE IN DETERMINING THE**
1241 **AUTHORIZED ROE?**

1242 A. Yes. In Docket No. R-2019-3008212, the Commission stated:

1243 Based on the evidence of record, we agree with the recommendation of the
1244 ALJs that the Company be awarded a DCF cost of common equity which
1245 is one standard deviation about the average of the mean and median proxy
1246 group ROE from the Company's DCF analysis. In so doing, we recognize
1247 that the Company's size is a factor in assessing its ability to attract capital.
1248 Accordingly, we shall reject Citizens' Exception No. 10, I&E's Exception
1249 No. 4, and the OCA's Exception No. 7, consistent with the following
1250 discussion.

1251 We are not convinced by the arguments of I&E and the OCA that the ALJs
1252 erred in awarding a size adjustment to Citizens'. Rather, we are of the same
1253 position as the ALJs that the Company's witness Mr. D'Ascendis offered
1254 persuasive record evidence that there is a general inverse relationship
1255 between size and risk, such that smaller utilities like Citizens' face greater
1256 risk.⁶⁴

1257 **Q. WHAT WOULD BE THE ROE RESULT USING THE COMMISSION'S METHOD**
1258 **IN THIS CASE?**

1259 A. The average of the mean and median DCF model result is 10.43%, as shown on page 1 of
1260 Schedule DWD-3. The standard deviation of those results is 1.15%. Adding the standard
1261 deviation to the average of the mean and median DCF result would indicate an ROE of
1262 11.58% for UGI Electric. Given this, my size adjustment should be considered
1263 conservative.

1264 **B. Credit Risk Adjustment**

1265 **Q. PLEASE DISCUSS YOUR PROPOSED CREDIT RISK ADJUSTMENT.**

1266 A. UGI Electric's long-term issuer rating is A3 from Moody's, which is less risky than the
1267 average long-term ratings for the Electric Utility Proxy Group of Baa1 and BBB+,
1268 respectively.⁶⁵ Hence, a downward credit risk adjustment is necessary to reflect the less
1269 risky credit rating, i.e., A3, of UGI Electric relative to the Electric Utility Proxy Group's
1270 Baa1 average Moody's bond rating.⁶⁶

⁶⁴ Pennsylvania Public Utility Commission, Docket No. R-2019-3008212, Opinion and Order, at 103.

⁶⁵ Source of Information: Moody's Investors Service, S&P Capital IQ.

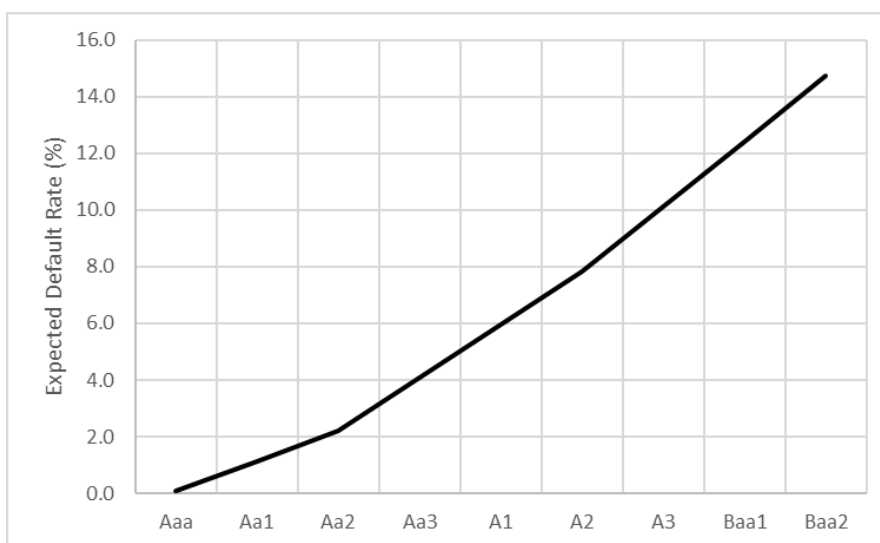
⁶⁶ As shown on page 3 of Schedule DWD-4.

1271 An indication of the magnitude of the necessary downward adjustment to reflect
1272 the lower credit risk inherent in an A3 bond rating is one-third of a recent three-month
1273 average spread between Moody's Baa2- and A-rated public utility bond yields of 0.20%,
1274 shown on page 2 of Schedule DWD-4, or 0.07%.⁶⁷

1275 **Q. WHY IS IT IMPORTANT THAT YOU MAKE A CREDIT RISK ADJUSTMENT?**

1276 A. It is important to reflect a company's relative financial risk, as companies with riskier bond
1277 ratings have a higher risk of default, and because of that, equity investors would require a
1278 higher return on their investment. To illustrate the risk of default related to changes in
1279 bond rating, Chart 10 below presents Moody's Idealized Cumulative Expected Default
1280 Rates for debt obligations with maturities lasting 30-years based on the respective rating.

1281 **Chart 10: Moody's Idealized Cumulative Expected Default Rates Based on Debt**
1282 **Obligations with 30-Year Maturities**



1283 As shown in Chart 10, Moody's notes an observable difference in the default rates
1284 based on each respective rating. Therefore, even though credit ratings might be similar,
1285 the default rates indicate that different ratings equate to different risks.
1286

⁶⁷ $1/3 * 0.20\% = 0.07\%$.

1287 **C. Flotation Cost Adjustment**

1288 **Q. WHAT ARE FLOTATION COSTS?**

1289 A. Flotation costs are those costs associated with the sale of new issuances of common stock.
1290 They include market pressure and the mandatory unavoidable costs of issuance (e.g.,
1291 underwriting fees and out-of-pocket costs for printing, legal, registration, etc.). For every
1292 dollar raised through debt or equity offerings, the Company receives less than one full
1293 dollar in financing.

1294 **Q. WHY IS IT IMPORTANT TO RECOGNIZE FLOTATION COSTS IN THE**
1295 **ALLOWED COMMON EQUITY COST RATE?**

1296 A. It is important because there is no other mechanism in the ratemaking paradigm through
1297 which such costs can be recognized and recovered. Because these costs are real, necessary,
1298 and legitimate, recovery of these costs should be permitted. As noted by Morin:

1299 The costs of issuing these securities are just as real as operating and
1300 maintenance expenses or costs incurred to build utility plants, and fair
1301 regulatory treatment must permit the recovery of these costs....

1302 The simple fact of the matter is that common equity capital is not
1303 free...[Flotation costs] must be recovered through a rate of return
1304 adjustment.⁶⁸

1305 **Q. SHOULD FLOTATION COSTS BE RECOGNIZED ONLY IF THERE WAS AN**
1306 **ISSUANCE DURING THE TEST YEAR OR THERE IS AN IMMINENT POST-**
1307 **TEST YEAR ISSUANCE OF ADDITIONAL COMMON STOCK?**

1308 A. No. As noted above, there is no mechanism to recapture such costs in the ratemaking
1309 paradigm other than an adjustment to the allowed common equity cost rate. Flotation costs
1310 are charged to capital accounts and are not expensed on a utility's income statement. As
1311 such, flotation costs are analogous to capital investments, albeit negative, reflected on the

⁶⁸ Morin, at 329.

1312 balance sheet. Recovery of capital investments relates to the expected useful lives of the
1313 investment. Since common equity has a very long and indefinite life (assumed to be
1314 infinity in the standard regulatory DCF model), flotation costs should be recovered through
1315 an adjustment to common equity cost rate, even when there has not been an issuance during
1316 the test year, or in the absence of an expected imminent issuance of additional shares of
1317 common stock.

1318 Historical flotation costs are a permanent loss of investment to the utility and
1319 should be taken into account. When any company, including a utility, issues common
1320 stock, flotation costs are incurred for legal, accounting, printing fees, and the like. For
1321 each dollar of issuing market price, a small percentage is expensed and is permanently
1322 unavailable for investment in utility rate base. Since these expenses are charged to capital
1323 accounts and not expensed on the income statement, the only way to restore the full value
1324 of that dollar of issuing price with an assumed investor required return of 10% is for the
1325 net investment, \$0.95, to earn more than 10% to net back to the investor a fair return on
1326 that dollar. In other words, if a company issues stock at \$1.00 with 5% in flotation costs,
1327 it will net \$0.95 in investment. Assuming the investor in that stock requires a 10% return
1328 on their invested \$1.00 (i.e., a return of \$0.10), the company needs to earn approximately
1329 10.5% on its invested \$0.95 to receive a \$0.10 return.

1330 **Q. DO THE COMMON EQUITY COST RATE MODELS YOU HAVE USED**
1331 **ALREADY REFLECT INVESTORS' ANTICIPATION OF FLOTATION COSTS?**

1332 A. No. All of these models assume no transaction costs. The literature is quite clear that these
1333 costs are not reflected in the market prices paid for common stocks. For example, Brigham
1334 and Daves confirm this and provide the methodology utilized to calculate the flotation

1335 adjustment.⁶⁹ In addition, Morin confirms the need for such an adjustment even when no
1336 new equity issuance is imminent.⁷⁰ Consequently, it is proper to include a flotation cost
1337 adjustment when using cost of common equity models to estimate the common equity cost
1338 rate.

1339 **Q. WHAT IS THE IMPACT TO INVESTORS IF THE RECOVERY OF FLOTATION**
1340 **COSTS IS DENIED?**

1341 A. Denying recovery of issuance costs penalizes the investors that fund the utility operations.
1342 As shown on page 2 of Schedule DWD-11, because of flotation costs, an authorized return
1343 of 10.85% would be required to realize an ROE of 10.75% (i.e., a 10-basis point flotation
1344 cost adjustment). If flotation costs are not recovered, the growth rate falls and the ROE
1345 decreases to 10.65% (i.e., below the required return).⁷¹

1346 **Q. DO YOU AGREE THAT FLOTATION COSTS CAN BE RECOVERED AS AN**
1347 **EXPENSE RATHER THAN AN ADJUSTMENT TO THE ROE?**

1348 A. No, I do not. The reason is due to opportunity cost. When an entity issues equity or debt,
1349 the net proceeds of that capital is generally used to finance rate base, which is entitled to a
1350 return of (depreciation) and a return on (the weighted average cost of capital). Because
1351 the cost of issuing the capital would otherwise go to financing rate base, the costs of that
1352 capital would need to be recovered on an ongoing basis.

⁶⁹ Eugene F. Brigham and Phillip R. Daves, *Intermediate Financial Management*, 9th Edition, Thomson/Southwestern, at p. 342.

⁷⁰ Morin, at 339.

⁷¹ Schedule DWD-11, page 2 is provided for illustrative purposes only. Please note that I have not relied on the results of the analysis in determining my recommended ROE or range.

1353 **Q. HAVE OTHER REGULATORY COMMISSIONS ALLOWED FLOTATION**
1354 **COSTS IN THE ALLOWED ROE?**

1355 A. Yes, they have. For example, in Peoples Gas System, Inc.’s (“PGS”) recent 2023 rate
1356 proceeding, the Florida Public Service Commission stated the following regarding my
1357 proposed flotation cost adjustment:

1358 In PGS’s last rate case in 2008, we did not make a specific adjustment for
1359 flotation costs, but in our order we stated that we have traditionally recognized
1360 a reasonable adjustment for flotation costs in the determination of the investor
1361 required return...We find witness D’Ascendis’s method to determine the
1362 flotation cost is credible and provided persuasive evidence for his
1363 recommendation to include a flotation cost of 9 basis points.⁷²

1364 Given the above, I recommend this Commission also correctly include flotation
1365 costs in the allowed ROE.

1366 **Q. HOW DID YOU CALCULATE THE FLOTATION COST ALLOWANCE?**

1367 A. I modified the DCF calculation to provide a dividend yield that would reimburse investors
1368 for issuance costs in accordance with the method cited in literature by Brigham and Daves,
1369 as well as by Morin. The flotation cost adjustment recognizes the actual costs of issuing
1370 equity that were incurred by UGI Corp. Based on the issuance costs shown on page 1 of
1371 Schedule DWD-11, an adjustment of 0.13% is required to reflect the flotation costs
1372 applicable to the Electric Utility Proxy Group.

1373 **Q. WHAT IS THE INDICATED COST OF COMMON EQUITY AFTER YOUR**
1374 **COMPANY-SPECIFIC ADJUSTMENTS?**

1375 A. Applying the 0.40% business risk adjustment, -0.07% credit risk adjustment, and the
1376 0.13% flotation cost adjustment to the indicated range of common equity cost rates

⁷² *In re: Petition for rate increase by Peoples Gas System, Inc.*, Docket No. 20230023-GU, Order Granting in Part and Denying in Part Peoples Gas System, Inc.’s Petition for a Rate Increase, at 68 (December 27, 2023).

1377 between 10.22% and 12.98% results in a range of common equity cost rates between
1378 10.68% and 13.45%.

1379 **IX. CONCLUSION**

1380 **Q. WHAT IS YOUR RECOMMENDED ROE FOR UGI ELECTRIC?**

1381 A. Given the discussion above and the results of my analytical models, I conclude that an
1382 appropriate ROE for the Company is 10.85%.

1383 **Q. IN YOUR OPINION, IS YOUR PROPOSED ROE OF 10.85% FAIR AND**
1384 **REASONABLE TO UGI ELECTRIC AND ITS CUSTOMERS?**

1385 A. Yes, it is.

1386 **Q. IN YOUR OPINION, IS UGI ELECTRIC'S PROPOSED CAPITAL STRUCTURE**
1387 **CONSISTING OF 45.75% LONG-TERM DEBT AND 54.25% COMMON EQUITY**
1388 **FAIR AND REASONABLE?**

1389 A. Yes, it is.

1390 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

1391 A. Yes, it does.

UGI ELECTRIC

EXHIBIT DWD-1



Appendix A - Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Summary

Dylan is an experienced consultant and a Certified Rate of Return Analyst (CRRA) and Certified Valuation Analyst (CVA). Dylan joined ScottMadden in 2016 and is a leading expert witness with respect to cost of capital, capital structure, and valuation. He has served as a consultant for investor-owned and municipal utilities and authorities for 17 years. Dylan has testified as an expert witness on over 200 occasions regarding rate of return, cost of service, rate design, and valuation before more than 40 regulatory jurisdictions in the United States and Canada, an American Arbitration Association panel, and the Superior Court of Rhode Island. He also maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured. Dylan holds a B.A. in economic history from the University of Pennsylvania and an M.B.A. with concentrations in finance and international business from Rutgers University.

Areas of Specialization

- Expert Witness Testimony
- Rates and Regulation
- Return on Equity
- Valuation
- Utility Regulations
- Rate Case Planning, Management, and Support
- Utility Benchmarking

Recent Articles and Speeches

- "Decoupling, Risk Impacts, and the Cost of Capital." Co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. *The Electricity Journal*. March 2020
- "Decoupling Impact and Public Utility Conservation Investment." Co-authored with Richard A. Michelfelder, Ph.D., Rutgers University and Pauline M. Ahern. *Energy Policy Journal*. 130 (2019), 311-319
- "Establishing Alternative Proxy Groups." Presentation before the Society of Utility and Regulatory Financial Analysts: 51st Financial Forum. April 4, 2019. New Orleans, LA
- "Past Is Prologue: Future Test Year." Presentation before the National Association of Water Companies 2017 Southeast Water Infrastructure Summit. May 2, 2017. Savannah, GA
- "Comparative Evaluation of the Predictive Risk Premium Model™, the Discounted Cash Flow Model and the Capital Asset Pricing Model." Co-authored with Richard A. Michelfelder, Ph.D., Rutgers University, Pauline M. Ahern, and Frank J. Hanley. *The Electricity Journal*. May 2013
- "Decoupling: Impact on the Risk and Cost of Common Equity of Public Utility Stocks." Presentation before the Society of Utility and Regulatory Financial Analysts: 45th Financial Forum. April 17-18, 2013. Indianapolis, IN

Recent Assignments

- Provided expert testimony on the cost of capital for ratemaking purposes before numerous state utility regulatory agencies
- Maintains the benchmark index against which the Hennessy Gas Utility Mutual Fund performance is measured
- Sponsored valuation testimony for a large municipal water company in front of an American Arbitration Association Board to justify the reasonability of their lease payments to the city
- Co-authored a valuation report on behalf of a large investor-owned utility in response to a new state regulation which allowed the appraised value of acquired assets into rate base



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Regulatory Commission of Alaska				
Goat Lake Hydro, Inc.	12/24	Goat Lake Hydro, Inc.	Docket No. TA7-521	Rate of Return
Alaska Power Company	08/23	Alaska Power Company	Docket No. TA 909-2 / U-23-054	Capital Structure
ENSTAR Natural Gas Company	08/22	ENSTAR Natural Gas Company	Docket No. TA334-4	Rate of Return
Cook Inlet Natural Gas Storage Alaska, LLC	07/21	Cook Inlet Natural Gas Storage Alaska, LLC	Docket No. TA45-733	Capital Structure
Alaska Power Company	09/20	Alaska Power Company; Goat Lake Hydro, Inc.; BBL Hydro, Inc.	Tariff Nos. TA886-2; TA6-521; TA4-573	Capital Structure
Alaska Power Company	07/16	Alaska Power Company	Docket No. TA857-2	Rate of Return
Alberta Utilities Commission				
AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	02/23	AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	Proceeding ID. 27084	Determination of Cost-of-Capital Parameters
AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	01/20	AltaLink, L.P., and EPCOR Distribution & Transmission, Inc.	2021 Generic Cost of Capital, Proceeding ID. 24110	Rate of Return
Arizona Corporation Commission				
EPCOR Water Arizona, Inc.	09/25	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-24-0130	Annual Formula Rate Adjustment Mechanism
EPCOR Water Arizona, Inc.	06/24	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-24-0130	Rate of Return
Arizona Water Company	05/24	Arizona Water Company – Northern Group	Docket No. W-01445A-24-0117	Rate of Return
Foothills Water & Sewer, LLC	10/23	Foothills Water & Sewer, LLC	Docket No. WS-21182A-23-0292	Rate of Return and Fair Value Rate Base
Arizona Water Company	12/22	Arizona Water Company – Eastern Group	Docket No. W-01445A-22-0286	Rate of Return
EPCOR Water Arizona, Inc.	08/22	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-22-0236	Rate of Return
EPCOR Water Arizona, Inc.	06/20	EPCOR Water Arizona, Inc.	Docket No. WS-01303A-20-0177	Rate of Return
Arizona Water Company	12/19	Arizona Water Company – Western Group	Docket No. W-01445A-19-0278	Rate of Return
Arizona Water Company	08/18	Arizona Water Company – Northern Group	Docket No. W-01445A-18-0164	Rate of Return
Arkansas Public Service Commission				
Summit Utilities Arkansas, Inc.	01/24	Summit Utilities Arkansas, Inc.	Docket No. 23-079-U	Rate of Return
Southwestern Electric Power Co.	07/21	Southwestern Electric Power Co.	Docket No. 21-070-U	Return on Equity
CenterPoint Energy Resources Corp.	05/21	CenterPoint Arkansas Gas	Docket No. 21-004-U	Return on Equity
California Public Utilities Commission				
Union Pacific Railroad Co – dba Keene Water System	03/25	Union Pacific Railroad Co – dba Keene Water System	Docket No. A25-03-016	Rate of Return
Southwest Gas Corporation	07/24	Southwest Gas Corporation	Docket No. A24-09-001	Return on Equity
San Gabriel Valley Water Company	05/23	San Gabriel Valley Water Company	Docket No. A23-05-001	Return on Equity
City of Edmonton, Canada				
EPCOR Water Services, Inc.	05/24	EPCOR Water Services, Inc.	Performance Based Regulation Application	Cost of Capital



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Colorado Public Utilities Commission				
Atmos Energy Corporation	08/22	Atmos Energy Corporation	Docket No. 22AL-0348G	Rate of Return
Summit Utilities, Inc.	04/18	Colorado Natural Gas Company	Docket No. 18AL-0305G	Rate of Return
Atmos Energy Corporation	06/17	Atmos Energy Corporation	Docket No. 17AL-0429G	Rate of Return
Commission of the Canada Energy Regulator				
Trans-Northern Pipelines Inc.	11/22	Trans-Northern Pipelines Inc.	Docket No. C-22197	Cost of Capital
Delaware Public Service Commission				
Artesian Water Company, Inc.	04/25	Artesian Water Company, Inc.	Docket No. 25-0436	Rate of Return
Delmarva Power & Light Co.	09/24	Delmarva Power & Light Co.	Docket No. 24-1044 (Gas)	Return on Equity
Tidewater Utilities, Inc.	08/24	Tidewater Utilities, Inc.	Docket No. 24-0991	Rate of Return
Delmarva Power & Light Co.	07/24	Delmarva Power & Light Co.	Docket No. 24-0868	Alternative Forms of Rate Regulation
Artesian Water Company, Inc.	04/23	Artesian Water Company, Inc.	Docket No. 23-0601	Rate of Return
Delmarva Power & Light Co.	12/22	Delmarva Power & Light Co.	Docket No. 22-0897 (Electric)	Return on Equity
Delmarva Power & Light Co.	01/22	Delmarva Power & Light Co.	Docket No. 22-002 (Gas)	Return on Equity
Delmarva Power & Light Co.	11/20	Delmarva Power & Light Co.	Docket No. 20-0149 (Electric)	Return on Equity
Delmarva Power & Light Co.	10/20	Delmarva Power & Light Co.	Docket No. 20-0150 (Gas)	Return on Equity
Tidewater Utilities, Inc.	11/13	Tidewater Utilities, Inc.	Docket No. 13-466	Capital Structure
Public Service Commission of the District of Columbia				
Washington Gas Light Company	08/24	Washington Gas Light Company	Formal Case No. 1180	Rate of Return
Washington Gas Light Company	04/22	Washington Gas Light Company	Formal Case No. 1169	Rate of Return
Washington Gas Light Company	09/20	Washington Gas Light Company	Formal Case No. 1162	Rate of Return
Federal Energy Regulatory Commission				
LS Power Grid California, LLC	10/20	LS Power Grid California, LLC	Docket No. ER21-195-000	Rate of Return
Florida Public Service Commission				
Peoples Gas System, Inc.	03/25	Peoples Gas System, Inc.	Docket No. 20250029-GU	Return on Equity
Tampa Electric Company	04/24	Tampa Electric Company	Docket No. 20240025-EI	Return on Equity
Peoples Gas System, Inc.	04/23	Peoples Gas System, Inc.	Docket No. 20230023-GU	Rate of Return
Tampa Electric Company	04/21	Tampa Electric Company	Docket No. 20210034-EI	Return on Equity
Peoples Gas System, Inc.	09/20	Peoples Gas System, Inc.	Docket No. 20200051-GU	Rate of Return
Utilities, Inc. of Florida	06/20	Utilities, Inc. of Florida	Docket No. 20200139-WS	Rate of Return
Hawaii Public Utilities Commission				
Kaupulehu Waste Water Company	02/25	Kaupulehu Waste Water Company	Docket No. 2023-0456	Rate of Return
Launiupoko Irrigation Company, Inc.	12/20	Launiupoko Irrigation Company, Inc.	Docket No. 2020-0217 / Transferred to 2020-0089	Capital Structure
Lanai Water Company, Inc.	12/19	Lanai Water Company, Inc.	Docket No. 2019-0386	Cost of Service / Rate Design
Manele Water Resources, LLC	08/19	Manele Water Resources, LLC	Docket No. 2019-0311	Cost of Service / Rate Design
Kaupulehu Water Company	02/18	Kaupulehu Water Company	Docket No. 2016-0363	Rate of Return
Aqua Engineers, LLC	05/17	Puhi Sewer & Water Company	Docket No. 2017-0118	Cost of Service / Rate Design
Hawaii Resources, Inc.	09/16	Laie Water Company	Docket No. 2016-0229	Cost of Service / Rate Design
Illinois Commerce Commission				
Ameren Illinois Company d/b/a Ameren Illinois	01/25	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 25-0084 (Gas)	Return on Equity
Aqua Illinois, Inc.	01/24	Aqua Illinois, Inc.	Docket No. 24-0044	Rate of Return



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Ameren Illinois Company d/b/a Ameren Illinois	01/23	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 23-0082 (Electric)	Return on Equity
Ameren Illinois Company d/b/a Ameren Illinois	01/23	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 23-0067 (Gas)	Return on Equity
Utility Services of Illinois, Inc.	02/21	Utility Services of Illinois, Inc.	Docket No. 21-0198	Rate of Return
Ameren Illinois Company d/b/a Ameren Illinois	07/20	Ameren Illinois Company d/b/a Ameren Illinois	Docket No. 20-0308	Return on Equity
Utility Services of Illinois, Inc.	11/17	Utility Services of Illinois, Inc.	Docket No. 17-1106	Cost of Service / Rate Design
Aqua Illinois, Inc.	04/17	Aqua Illinois, Inc.	Docket No. 17-0259	Rate of Return
Utility Services of Illinois, Inc.	04/15	Utility Services of Illinois, Inc.	Docket No. 14-0741	Rate of Return
Indiana Utility Regulatory Commission				
Aqua Indiana, Inc.	03/16	Aqua Indiana, Inc. Aboite Wastewater Division	Docket No. 44752	Rate of Return
Twin Lakes, Utilities, Inc.	08/13	Twin Lakes, Utilities, Inc.	Docket No. 44388	Rate of Return
Kansas Corporation Commission				
Atmos Energy Corporation	07/25	Atmos Energy Corporation	26-ATMG-026-RTS	Rate of Return
Atmos Energy Corporation	07/19	Atmos Energy Corporation	19-ATMG-525-RTS	Rate of Return
Kentucky Public Service Commission				
PPL Corporation	05/25	Kentucky Utilities Company / Louisville Gas & Electric Company	2025-00113 / 00114	Rate of Return
Atmos Energy Corporation	09/24	Atmos Energy Corporation	2024-00276	Rate of Return
Bluegrass Water Utility Operating Company	02/23	Bluegrass Water Utility Operating Company	2022-00432	Return on Equity
Atmos Energy Corporation	07/22	Atmos Energy Corporation	2022-00222	PRP Rider Rate
Water Service Corporation of KY	06/22	Water Service Corporation of KY	2022-00147	Rate of Return
Atmos Energy Corporation	07/21	Atmos Energy Corporation	2021-00304	PRP Rider Rate
Atmos Energy Corporation	06/21	Atmos Energy Corporation	2021-00214	Rate of Return
Duke Energy Kentucky, Inc.	06/21	Duke Energy Kentucky, Inc.	2021-00190	Return on Equity
Bluegrass Water Utility Operating Company	10/20	Bluegrass Water Utility Operating Company	2020-00290	Return on Equity
Louisiana Public Service Commission				
Utilities, Inc. of Louisiana	05/21	Utilities, Inc. of Louisiana	Docket No. U-36003	Rate of Return
Southwestern Electric Power Company	12/20	Southwestern Electric Power Company	Docket No. U-35441	Return on Equity
Atmos Energy Corporation	04/20	Atmos Energy Corporation	Docket No. U-35535	Rate of Return
Louisiana Water Service, Inc.	06/13	Louisiana Water Service, Inc.	Docket No. U-32848	Rate of Return
Maine Public Utilities Commission				
Northern Utilities, Inc. d/b/a Unutil	05/23	Northern Utilities, Inc. d/b/a Unutil	Docket No. 2023-00051	Return on Equity
Summit Natural Gas of Maine, Inc.	03/22	Summit Natural Gas of Maine, Inc.	Docket No. 2022-00025	Rate of Return
The Maine Water Company	09/21	The Maine Water Company	Docket No. 2021-00053	Rate of Return
Maryland Public Service Commission				
Washington Gas Light Company	05/23	Washington Gas Light Company	Case No. 9704	Rate of Return
FirstEnergy Service Company	03/23	Potomac Edison Company	Case No. 9695	Rate of Return
Washington Gas Light Company	08/20	Washington Gas Light Company	Case No. 9651	Rate of Return
FirstEnergy Corporation	08/18	Potomac Edison Company	Case No. 9490	Rate of Return
Massachusetts Department of Public Utilities				
Unutil Corporation	09/23	Fitchburg Gas & Electric Co. (Elec.)	D.P.U. 23-80	Rate of Return



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Unitil Corporation	09/23	Fitchburg Gas & Electric Co. (Gas)	D.P.U. 23-81	Rate of Return
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Elec.)	D.P.U. 19-130	Rate of Return
Unitil Corporation	12/19	Fitchburg Gas & Electric Co. (Gas)	D.P.U. 19-131	Rate of Return
Liberty Utilities	07/15	Liberty Utilities d/b/a New England Natural Gas Company	D.P.U. 15-75	Rate of Return
Minnesota Public Utilities Commission				
Northern States Power Company	11/01	Northern States Power Company	Docket No. G002/GR-21-678	Return on Equity
Northern States Power Company	10/21	Northern States Power Company	Docket No. E002/GR-21-630	Return on Equity
Northern States Power Company	11/20	Northern States Power Company	Docket No. E002/GR-20-723	Return on Equity
Mississippi Public Service Commission				
Atmos Energy Corporation	06/25	Atmos Energy Corporation	Docket No. 2025-UN-59	Rate of Return
Great River Utility Operating Co.	07/22	Great River Utility Operating Co.	Docket No. 2022-UN-86	Rate of Return
Atmos Energy Corporation	03/19	Atmos Energy Corporation	Docket No. 2015-UN-049	Capital Structure
Atmos Energy Corporation	07/18	Atmos Energy Corporation	Docket No. 2015-UN-049	Capital Structure
Missouri Public Service Commission				
Confluence Rivers Utility Operating Company, Inc.	01/23	Confluence Rivers Utility Operating Company, Inc.	Case No. WR-2023-0006/SR-2023-0007	Rate of Return
Spire Missouri, Inc.	12/20	Spire Missouri, Inc.	Case No. GR-2021-0108	Return on Equity
Indian Hills Utility Operating Company, Inc.	10/17	Indian Hills Utility Operating Company, Inc.	Case No. SR-2017-0259	Rate of Return
Raccoon Creek Utility Operating Company, Inc.	09/16	Raccoon Creek Utility Operating Company, Inc.	Case No. SR-2016-0202	Rate of Return
Public Utilities Commission of Nevada				
Southwest Gas Corporation	09/23	Southwest Gas Corporation	Docket No. 23-09012	Return on Equity
Southwest Gas Corporation	09/21	Southwest Gas Corporation	Docket No. 21-09001	Return on Equity
Southwest Gas Corporation	08/20	Southwest Gas Corporation	Docket No. 20-02023	Return on Equity
New Hampshire Public Utilities Commission				
Unitil Energy Systems, Inc.	5/25	Unitil Corporation	Docket No. DE 25-025	Return on Equity
Aquarion Water Company of New Hampshire, Inc.	12/20	Aquarion Water Company of New Hampshire, Inc.	Docket No. DW 20-184	Rate of Return
New Jersey Board of Public Utilities				
Middlesex Water Company	06/25	Middlesex Water Company	Docket No. WR25060372	Rate of Return
Atlantic City Electric Company	11/24	Atlantic City Electric Company	Docket No. ER24110854	Rate of Return
New Jersey Natural Gas Company	01/24	New Jersey Natural Gas Company	Docket No. GR24010071	Rate of Return
Middlesex Water Company	05/23	Middlesex Water Company	Docket No. WR23050292	Rate of Return
FirstEnergy Service Company	03/23	Jersey Central Power & Light Co.	Docket No. ER23030144	Rate of Return
Atlantic City Electric Company	02/23	Atlantic City Electric Company	Docket No. ER23020091	Return on Equity
Middlesex Water Company	05/21	Middlesex Water Company	Docket No. WR21050813	Rate of Return
Atlantic City Electric Company	12/20	Atlantic City Electric Company	Docket No. ER20120746	Return on Equity
FirstEnergy Service Company	02/20	Jersey Central Power & Light Co.	Docket No. ER20020146	Rate of Return
Aqua New Jersey, Inc.	12/18	Aqua New Jersey, Inc.	Docket No. WR18121351	Rate of Return
Middlesex Water Company	10/17	Middlesex Water Company	Docket No. WR17101049	Rate of Return
Middlesex Water Company	03/15	Middlesex Water Company	Docket No. WR15030391	Rate of Return
The Atlantic City Sewerage Company	10/14	The Atlantic City Sewerage Company	Docket No. WR14101263	Cost of Service / Rate Design
Middlesex Water Company	11/13	Middlesex Water Company	Docket No. WR1311059	Capital Structure
New Mexico Public Regulation Commission				
New Mexico Gas Company	09/23	New Mexico Gas Company	Case No. 23-00255-UT	Return on Equity



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Southwestern Public Service Co.	11/22	Southwestern Public Service Co.	Case No. 22-00286-UT	Return on Equity
Southwestern Public Service Co.	01/21	Southwestern Public Service Co.	Case No. 20-00238-UT	Return on Equity
North Carolina Utilities Commission				
Carolina Water Service, Inc.	07/25	Carolina Water Service, Inc.	Docket No. W-354, SUB 450	Rate of Return
Aqua North Carolina Inc.	04/25	Aqua North Carolina Inc.	Docket No. W-218, Sub 629	Rate of Return
Pluris Hampstead, LLC	09/24	Pluris Hampstead, LLC	Docket No. W-1305, Sub 38	Rate of Return
Old North State Water Co., Inc.	06/24	Old North State Water Co., Inc.	Docket No. W-1300, Sub 100	Rate of Return
Carolina Water Service, Inc.	07/22	Carolina Water Service, Inc.	Docket No. W-354 Sub 400	Rate of Return
Aqua North Carolina, Inc.	06/22	Aqua North Carolina, Inc.	Docket No. W-218 Sub 573	Rate of Return
Carolina Water Service, Inc.	07/21	Carolina Water Service, Inc.	Docket No. W-354 Sub 384	Rate of Return
Piedmont Natural Gas Co., Inc.	03/21	Piedmont Natural Gas Co., Inc.	Docket No. G-9, Sub 781	Return on Equity
Duke Energy Carolinas, LLC	07/20	Duke Energy Carolinas, LLC	Docket No. E-7, Sub 1214	Return on Equity
Duke Energy Progress, LLC	07/20	Duke Energy Progress, LLC	Docket No. E-2, Sub 1219	Return on Equity
Aqua North Carolina, Inc.	12/19	Aqua North Carolina, Inc.	Docket No. W-218 Sub 526	Rate of Return
Carolina Water Service, Inc.	06/19	Carolina Water Service, Inc.	Docket No. W-354 Sub 364	Rate of Return
Carolina Water Service, Inc.	09/18	Carolina Water Service, Inc.	Docket No. W-354 Sub 360	Rate of Return
Aqua North Carolina, Inc.	07/18	Aqua North Carolina, Inc.	Docket No. W-218 Sub 497	Rate of Return
North Dakota Public Service Commission				
Northern States Power Company	09/21	Northern States Power Company	Case No. PU-21-381	Rate of Return
Northern States Power Company	11/20	Northern States Power Company	Case No. PU-20-441	Rate of Return
Public Utilities Commission of Ohio				
Aqua Ohio, Inc.	07/25	Aqua Ohio, Inc.	Case No. 25-0594-WW-AIR	Rate of Return
FirstEnergy	06/24	Ohio Edison Co., Cleveland Electric Illuminating Co., Toledo Edison Co.	Case No. 24-0468-EL-AIR	Rate of Return
Aqua Ohio, Inc.	11/22	Aqua Ohio, Inc.	Case No. 22-1094-WW-AIR	Rate of Return
Duke Energy Ohio, Inc.	10/21	Duke Energy Ohio, Inc.	Case No. 21-887-EL-AIR	Return on Equity
Aqua Ohio, Inc.	07/21	Aqua Ohio, Inc.	Case No. 21-0595-WW-AIR	Rate of Return
Aqua Ohio, Inc.	05/16	Aqua Ohio, Inc.	Case No. 16-0907-WW-AIR	Rate of Return
Oklahoma Corporation Commission				
Summit Utilities Oklahoma, Inc.	6/25	Summit Utilities Oklahoma, Inc.	Docket No. PUD25-000028	Return on Equity
Pennsylvania Public Utility Commission				
UGI Utilities, Inc. – Gas Division	01/26	UGI Utilities, Inc. – Gas Division	Docket No. R-2025-3059523	Return on Equity
The York Water Company	05/25	The York Water Company	Docket Nos. R-2025-3053442 & R-2025-3053573	Rate of Return
Valley Energy, Inc.	04/25	C&T Enterprises	Docket No. R-2025-3054393	Rate of Return
Wellsboro Electric Company	04/25	C&T Enterprises	Docket No. R-2025-3054392	Rate of Return
Citizens' Electric Company of Lewisburg	04/25	C&T Enterprises	Docket No. R-2025-3054394	Rate of Return
FirstEnergy	04/24	Pennsylvania Electric Company	Docket No. R-2024-3047068	Rate of Return
Columbia Water Company	05/23	Columbia Water Company	Docket No. R-2023-3040258	Rate of Return
Borough of Ambler	06/22	Borough of Ambler – Bureau of Water	Docket No. R-2022-3031704	Rate of Return
Citizens' Electric Company of Lewisburg	05/22	C&T Enterprises	Docket No. R-2022-3032369	Rate of Return
Valley Energy Company	05/22	C&T Enterprises	Docket No. R-2022-3032300	Rate of Return
Community Utilities of Pennsylvania, Inc.	04/21	Community Utilities of Pennsylvania, Inc.	Docket No. R-2021-3025207	Rate of Return



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Vicinity Energy Philadelphia, Inc.	04/21	Vicinity Energy Philadelphia, Inc.	Docket No. R-2021-3024060	Rate of Return
Delaware County Regional Water Control Authority	02/20	Delaware County Regional Water Control Authority	Docket No. A-2019-3015173	Valuation
Valley Energy, Inc.	07/19	C&T Enterprises	Docket No. R-2019-3008209	Rate of Return
Wellsboro Electric Company	07/19	C&T Enterprises	Docket No. R-2019-3008208	Rate of Return
Citizens' Electric Company of Lewisburg	07/19	C&T Enterprises	Docket No. R-2019-3008212	Rate of Return
Steelton Borough Authority	01/19	Steelton Borough Authority	Docket No. A-2019-3006880	Valuation
Mahoning Township, PA	08/18	Mahoning Township, PA	Docket No. A-2018-3003519	Valuation
SUEZ Water Pennsylvania Inc.	04/18	SUEZ Water Pennsylvania Inc.	Docket No. R-2018-000834	Rate of Return
Columbia Water Company	09/17	Columbia Water Company	Docket No. R-2017-2598203	Rate of Return
Veolia Energy Philadelphia, Inc.	06/17	Veolia Energy Philadelphia, Inc.	Docket No. R-2017-2593142	Rate of Return
Emporium Water Company	07/14	Emporium Water Company	Docket No. R-2014-2402324	Rate of Return
Columbia Water Company	07/13	Columbia Water Company	Docket No. R-2013-2360798	Rate of Return
Penn Estates Utilities, Inc.	12/11	Penn Estates, Utilities, Inc.	Docket No. R-2011-2255159	Capital Structure / Long-Term Debt Cost Rate
South Carolina Public Service Commission				
Blue Granite Water Co.	12/19	Blue Granite Water Company	Docket No. 2019-292-WS	Rate of Return
Carolina Water Service, Inc.	02/18	Carolina Water Service, Inc.	Docket No. 2017-292-WS	Rate of Return
Carolina Water Service, Inc.	06/15	Carolina Water Service, Inc.	Docket No. 2015-199-WS	Rate of Return
Carolina Water Service, Inc.	11/13	Carolina Water Service, Inc.	Docket No. 2013-275-WS	Rate of Return
United Utility Companies, Inc.	09/13	United Utility Companies, Inc.	Docket No. 2013-199-WS	Rate of Return
Utility Services of South Carolina, Inc.	09/13	Utility Services of South Carolina, Inc.	Docket No. 2013-201-WS	Rate of Return
Tega Cay Water Services, Inc.	11/12	Tega Cay Water Services, Inc.	Docket No. 2012-177-WS	Capital Structure
South Dakota Public Service Commission				
Northern States Power Company	06/22	Northern States Power Company	Docket No. EL22-017	Rate of Return
Tennessee Public Utility Commission				
CSWR – Limestone Water Utility Operating Company	07/24	CSWR – Limestone Water Utility Operating Company	Docket No. 24-00044	Capital Structure, Cost of Debt, Return on Equity
Piedmont Natural Gas Company	07/20	Piedmont Natural Gas Company	Docket No. 20-00086	Return on Equity
Public Utility Commission of Texas				
Lone Star Transmission, LLC	02/26	Lone Star Transmission, LLC	Docket No. 59245	Rate of Return
Oncor Electric Delivery Co. LLC	06/25	Oncor Electric Delivery Co. LLC	Docket No. 58306	Return on Equity
Aqua Texas, Inc.	06/25	Aqua Texas, Inc.	Docket No. 58124	Rate of Return
CSWR TX Utility Operating Co, LLC	12/24	CSWR TX Utility Operating Co, LLC	Docket No. 57386	Rate of Return
BVRT Utility Holding Co., LLC	07/24	Texas Water Utilities, LP	Docket No. 56664	Rate of Return
Texas Water Utilities, LP	06/24	Texas Water Utilities, LP	Docket No. 56665	Rate of Return
Southwestern Public Service Co.	02/23	Southwestern Public Service Co.	Docket No. 54634	Return on Equity
CSWR – Texas Utility Operating Company, LLC	02/23	CSWR – Texas Utility Operating Company, LLC	Docket No. 54565	Rate of Return
Oncor Electric Delivery Co. LLC	05/22	Oncor Electric Delivery Co. LLC	Docket No. 53601	Return on Equity
Southwestern Public Service Co.	02/21	Southwestern Public Service Co.	Docket No. 51802	Return on Equity
Southwestern Electric Power Co.	10/20	Southwestern Electric Power Co.	Docket No. 51415	Rate of Return
Texas Railroad Commission				



Resume and Testimony Listing of:
Dylan W. D'Ascendis, CRRA, CVA
Partner

Sponsor	Date	Case/Applicant	Docket No.	Subject
Atmos Energy Corporation – Mid-Texas Division	11/24	Atmos Energy Corporation – Mid-Texas Division	Docket No. OS-24-00019196	Return on Equity
Atmos Energy Corporation – West Texas Division	10/24	Atmos Energy Corporation – West Texas Division	Docket No. OS-24-00018879	Return on Equity
Atmos Pipeline – Texas, a Division of Atmos Energy Corporation	05/23	Atmos Pipeline – Texas, a Division of Atmos Energy Corporation	Docket No. OS-23-00013758	Return on Equity
Virginia State Corporation Commission				
Washington Gas Light Company	07/25	Washington Gas Light Company	PUR-2025-00091	Return on Equity
Aqua Virginia, Inc.	07/25	Aqua Virginia, Inc.	PUR-2025-00071	Rate of Return
Aqua Virginia, Inc.	07/23	Aqua Virginia, Inc.	PUR-2023-00073	Rate of Return
Washington Gas Light Company	06/22	Washington Gas Light Company	PUR-2022-00054	Return on Equity
Virginia Natural Gas, Inc.	04/21	Virginia Natural Gas, Inc.	PUR-2020-00095	Return on Equity
Massanutten Public Service Corporation	12/20	Massanutten Public Service Corporation	PUE-2020-00039	Return on Equity
Aqua Virginia, Inc.	07/20	Aqua Virginia, Inc.	PUR-2020-00106	Rate of Return
WGL Holdings, Inc.	07/18	Washington Gas Light Company	PUR-2018-00080	Rate of Return
Atmos Energy Corporation	05/18	Atmos Energy Corporation	PUR-2018-00014	Rate of Return
Aqua Virginia, Inc.	07/17	Aqua Virginia, Inc.	PUR-2017-00082	Rate of Return
Massanutten Public Service Corp.	08/14	Massanutten Public Service Corp.	PUE-2014-00035	Rate of Return / Rate Design
Public Service Commission of West Virginia				
FirstEnergy Service Company	05/23	Monongahela Power Company and The Potomac Edison Company	Case No. 23-0460-E-42T	Return on Equity
FirstEnergy Service Company	12/21	Monongahela Power Company and The Potomac Edison Company	Case No. 21-0857-E-CN (ELG)	Return on Equity
FirstEnergy Service Company	11/21	Monongahela Power Company and The Potomac Edison Company	Case No. 21-0813-E-P (Solar)	Return on Equity

UGI ELECTRIC STATEMENT NO. 9

DARIN T. ESPIGH

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Docket No. R-2025-3059430

UGI Utilities, Inc. – Electric Division

Statement No. 9

**Direct Testimony of
Darin T. Espigh**

Topics Addressed: Taxes and Tax Adjustments

Dated: March 27, 2026

1 **I. INTRODUCTION AND QUALIFICATIONS**

2 **Q. Please state your full name and business address.**

3 A. My name is Darin T. Espigh. My business address is One UGI Drive, Denver,
4 Pennsylvania 17517.

5
6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed by UGI Corporation (“UGI Corp.”) as Senior Manager, Natural Gas Tax
8 Accounting. UGI Corp. is the parent company of UGI Utilities, Inc. (“UGI”). UGI has
9 two operating divisions, the Electric Division (“UGI Electric” or the “Company”) and the
10 Gas Division (“UGI Gas”), each of which is a public utility regulated by the Pennsylvania
11 Public Utility Commission (“Commission” or “PUC”).

12
13 **Q. What are your principal duties and responsibilities as Senior Manager Natural Gas
14 Tax Accounting for UGI Corp.?**

15 A. My primary duties as Senior Manager, Natural Gas Tax Accounting, include the
16 preparation of tax data to be reported in UGI Corp.’s various United States Securities and
17 Exchange Commission and regulatory filings, as well as its various federal and state
18 income and non-income tax return-related filings. Additionally, I maintain the current and
19 deferred income tax accrual and expense accounts, perform tax research, and assist UGI
20 with tax matters as they arise. I also manage UGI’s reporting of various tax filings with its
21 local, state, and federal jurisdictions.

22
23 **Q. Please describe your educational background and work experience.**

24 A. They are set forth in my resume attached as UGI Electric Exhibit DTE-1.

1 **Q. Please describe the purpose of your testimony.**

2 A. I am providing testimony on behalf of UGI Electric. I will explain the Company's *pro*
3 *forma* tax adjustments to its principal accounting exhibits for the fully projected future test
4 year ending September 30, 2027 ("FPFTY"). I will also explain the tax adjustments made
5 to the results of UGI Electric's historic test year ended September 30, 2025 ("HTY") and
6 future test year ending September 30, 2026 ("FTY").

7
8 **Q. Have you testified previously before this Commission?**

9 A. Yes. UGI Gas Exhibit DTE-1 contains a list of those proceedings.

10

11 **Q. Mr. Espigh, are you sponsoring any exhibits in this proceeding?**

12 A. Yes. I am sponsoring UGI Electric Exhibits DTE-1 and DTE-2. Together with other
13 Company witnesses, I am sponsoring portions of UGI Electric Exhibit A (Fully Projected),
14 UGI Electric Exhibit A (Future), and UGI Electric Exhibit A (Historic) that pertain to taxes.
15 These exhibits comprise UGI Electric's principal accounting exhibits for the HTY, FTY,
16 and FPFTY. I am also sponsoring certain responses to the Commission's filing
17 requirements and standard data requests. Each response identifies the witness sponsoring
18 it.

19

20 **II. TAX ADJUSTMENTS**

21 **Q. Please provide an overview of UGI Electric's principal accounting exhibits relative to**
22 **the proposed tax adjustments.**

23 A. As explained in the direct testimony of Tracy A. Hazenstab (UGI Electric Statement No.
24 2), UGI Electric's principal accounting exhibit is UGI Electric Exhibit A (Fully Projected),

1 which includes a presentation for the FPFTY. Section D of UGI Electric Exhibit A (Fully
2 Projected) presents necessary adjustments to budgeted levels of expense items and
3 revenues. The *pro forma* adjustments related to taxes are summarized in Schedules D-31
4 through D-34. These tax adjustments are used to derive UGI Electric's *pro forma* income
5 at present and proposed rates as set forth in Schedule A-1 of the same exhibit.

6 UGI Electric Exhibit A (Historic) and UGI Electric Exhibit A (Future) follow the
7 format of UGI Electric Exhibit A (Fully Projected), but reflect data for the HTY and the
8 FTY. This information is provided in accordance with the Commission's filing
9 requirements and provides a basis for comparing UGI Electric's FPFTY claims with actual
10 book results from the HTY and adjusted FTY results. Section D to UGI Electric Exhibit
11 A (Historic), Schedule D-31, and UGI Electric Exhibit A (Future), Schedule D-31 include
12 adjustments that share the same methodology as used in Schedule D-31 of UGI Electric
13 Exhibit A (Fully Projected).

14
15 **A. TAXES OTHER THAN INCOME TAXES**

16 **Q. How was the provision for taxes-other-than-income taxes ("TOTI") determined for**
17 **the FPFTY?**

18 A. TOTI consists of the Pennsylvania Utility Realty Tax ("PURTA"), the Pennsylvania Gross
19 Receipts Tax, Pennsylvania and Local Use taxes, Social Security taxes, Federal
20 Unemployment tax ("FUTA"), State Unemployment tax ("SUTA") and the Company's
21 assessed contribution to the budgets of the Commission, the Pennsylvania Office of
22 Consumer Advocate, and Pennsylvania Office of Small Business Advocate. TOTI
23 amounts were based on the plan year budget, as adjusted for reasonably known and
24 measurable changes to various payroll taxes as explained by the direct testimony of Ms.

1 Hazenstab (UGI Electric Statement No. 2). The adjustments are shown on UGI Electric
2 Exhibit A (Fully Projected), Schedule D-31. The net adjustment of (\$0.294) million is
3 brought forward to Schedule D-3, page 2.

4
5 **B. INCOME TAXES**

6 **Q. Please discuss the Company's claim for income tax expense.**

7 A. Income tax expense for the FPFTY at present and proposed rates is set forth in UGI Electric
8 Exhibit A (Fully Projected), Schedule D-33. Income tax expense is calculated using the
9 procedures normally followed by the Commission, including the use of debt interest
10 synchronization, the normalization method for accelerated depreciation used in the
11 calculation of federal income taxes, and the flow-through of accelerated depreciation
12 benefits for state income tax purposes. UGI Electric is continuing its practice of
13 normalizing the tax repairs expense deduction for federal tax purposes. For state tax
14 purposes, UGI Electric continues to flow-through the repairs tax benefit over the tax lives
15 of the asset that generated the benefit, which is generally 20 years. The fully adjusted claim
16 for the FPFTY income tax expense is shown on UGI Electric Exhibit A (Fully Projected),
17 Schedule D-1.

18
19 **Q. Please describe the claim for income taxes shown on Schedule D-1, lines 18 and 19.**

20 A. The calculation of federal and state income taxes can be found on Schedule D-33, lines 13
21 and 19. This schedule shows the calculation of *pro forma* income taxes for the FPFTY at
22 present and proposed rates. Line 1 shows the revenue at present and proposed rates, while
23 line 2 shows the operating expenses at present and proposed rates from Schedule D-1. Line
24 3 reflects operating income before debt interest is deducted, by netting line 1 from line 2.

1 Debt interest expense is synchronized by multiplying the rate base claim from Schedule C-
2 1 by the weighted cost of debt recommended in the direct testimony of Dylan A.
3 D'Ascendis (UGI Electric Statement No. 8) and shown on Schedule B-7. The resulting
4 interest expense on line 6 is subtracted from net income before debt interest to calculate
5 base taxable income on line 7.

6 In accordance with established Commission practice, lines 8 through 11 of
7 Schedule D-33 reduce the base taxable income, for state tax purposes, by the total
8 difference between accelerated tax depreciation shown on line 8 and the *pro forma* book
9 depreciation shown on line 9. The statutory state corporate net income tax rate was then
10 applied (as further described below in Section F of my testimony) to determine the *pro*
11 *forma* state income tax expense shown on line 13. Lines 14 through 19 show the federal
12 income tax expense calculation at current and proposed rates, while line 20 sums the state
13 and federal tax expense amounts before application of Deferred Federal and State Income
14 Taxes. At lines 21 through 28, Deferred Federal and State Income Taxes are used to
15 increase the *pro forma* income tax expense at present and proposed rates, with the total
16 calculated amount for income taxes before the application of other adjustments shown on
17 line 29. The amounts of accelerated depreciation, cost of removal, repairs tax deduction,
18 tax basis adjustments to plant, straight line depreciation, and book depreciation used in
19 determining income taxes are summarized on Schedule D-34.

20
21 **Q. What is the total FPFTY income tax expense for UGI Electric?**

22 A. As shown on Schedule D-33 at line 31, the *pro forma* combined income tax expense at
23 present rates is \$0.296 million, and the *pro forma* income tax expense at proposed rates for

1 the FPFTY is \$4.555 million. As explained below in Section E of my testimony, this figure
2 is not reduced by a consolidated income tax adjustment. Moreover, the pro forma income
3 tax at present rates and the pro forma income tax revenue increase calculated in Schedule
4 D-33 appear in Schedule D-1, which comprises the Company's claimed income tax
5 expense.

6
7 **Q. Did the Company reflect the amortization of Excess Deferred Federal Income Taxes**
8 **(“EDFIT”) resulting from the 2017 Tax Cuts and Jobs Act (“TCJA”) in its income**
9 **tax expense claim?**

10 A. Yes, the Company calculated the amount of the EDFIT to be amortized and flowed back
11 to ratepayers in its FPFTY. This amount is included in the overall federal deferred tax
12 expense calculated on Line 25 of Schedule D-33. The total amortization was
13 approximately \$0.232 million, calculated using the Average Rate Assumption Method
14 (“ARAM”) as required by tax normalization rules.

15
16 **C. ACCUMULATED DEFERRED INCOME TAXES**

17 **Q. How are Accumulated Deferred Income Taxes (“ADIT”) calculated?**

18 A. Schedule C-6 shows the FPFTY ending balance for federal ADIT as of September 30,
19 2027. This amount is deducted from rate base. The total shown on line 8 reflects the
20 difference in income tax expense for book and tax purposes attributable to the difference
21 between the accelerated tax depreciation and straight-line book depreciation on test year
22 plant balances, net of offsets associated with contributions in aid of construction. Rate
23 base was reduced further by the state regulatory liability associated with UGI Electric's

1 repairs tax method shown on line 6. As the state tax consequence of accelerated
2 depreciation is flowed through, there is no associated state ADIT balance.

3
4 **Q. What is the amount of the ADIT offset to rate base?**

5 A. As shown on line 8 of Schedule C-6 and on line 5 of Schedule A-1, the ADIT offset is
6 \$27.953 million, which includes an amount related to the repairs tax method explained
7 below in Section D of my testimony.

8
9 **Q. Does the Company's reduction to rate base include an amount associated with**
10 **EDFIT?**

11 A. Yes, the Company reduced its rate base by the unamortized EDFIT, which is incorporated
12 in the ADIT balance on Line 8 of Schedule C-6.

13
14 **Q. Did the Company calculate its federal ADIT rate base deduction in compliance with**
15 **the normalization requirements of the Internal Revenue Code?**

16 A. Yes. The Company's calculation properly reflects the pro-rationing concept in accordance
17 with Treasury Regulation 1.167(l)-1(h)(6)(ii) that it must follow for ratemaking purposes
18 to comply with IRS normalization requirements. To qualify for normalization, the IRS
19 requires utilities to pro-rate rate base deductions for ADIT to account for the fact that the
20 Company accrues ADIT for plant additions throughout the year. See UGI Electric Exhibit
21 DTE-2 for the calculation of the pro-rata adjustment.

1 **D. REPAIRS TAX METHOD**

2 **Q. Please explain UGI Electric’s accounting treatment of the Repairs Tax Method.**

3 A. In its tax return for the year ended September 30, 2009, UGI Electric adopted a tax
4 accounting method to expense as repairs certain items capitalized for book purposes in
5 accordance with federal tax regulations. As it did in the Company’s previous base rate
6 case at Docket No. R-2022-3037368, UGI Electric chose to normalize its federal income
7 tax expense claim, inclusive of the repairs tax deduction. This difference between
8 accelerated tax depreciation and book depreciation in the calculation of federal tax expense
9 creates ADIT. For state income tax purposes, solely with respect to the repairs tax
10 deduction, UGI Electric chose to flow-through the repairs tax benefit over the tax useful
11 lives of the assets generating the tax deduction. The state ADIT balance associated with
12 the repairs tax deduction is classified as a regulatory liability, as it represents the repairs
13 tax benefit that ratepayers have not yet received. In both the federal and state instances,
14 the ADIT balance amortizes or unwinds over the remaining life of the asset.

15 As noted previously, the Company reduces rate base by the sum of the federal ADIT
16 balance and the state repair regulatory liability.

17
18 **E. CONSOLIDATED TAX BENEFITS**

19 **Q. Does the Company’s proposed revenue requirement reflect a consolidated tax**
20 **expense adjustment?**

21 A. No. The Company’s revenue requirement is established based on its stand-alone federal
22 income tax attributes. It is also my understanding that Act 40 of 2016, which added 66 Pa.
23 C.S § 1301.1 to the Public Utility Code, eliminates the need to show a consolidated tax
24 adjustment for ratemaking purposes. Moreover, it is my understanding that the

1 requirements of Section 1301.1(b) no longer apply pursuant to Section 1301.1(c) as of
2 December 31, 2025. Thus, the Company has not calculated a hypothetical consolidated
3 tax adjustment for purposes of Section 1301.1(b).

4
5 **F. PENNSYLVANIA TAX RATE CHANGE**

6 **Q. Are you familiar with the Pennsylvania corporate net income tax rate change?**

7 A. Yes. On July 8, 2022, Governor Wolf signed into law Act 53, which reduced the state
8 corporate net income tax rate from the then-current 9.99% to 4.99% over a nine-year
9 period. The initial reduction to 8.99% was effective for tax years beginning in calendar
10 year 2023. Thus, the initial reduction applied to Fiscal Year End September 30, 2024.

11
12 **Q. How has the Company accounted for the Pennsylvania tax rate change?**

13 A. The Company's claim for income taxes reflects the applicable state tax rate in effect for the
14 HTY (i.e., 8.49%), FTY (i.e., 7.99%), and FPFTY (i.e., 7.49%). The State Tax Adjustment
15 Surcharge ("STAS") mechanism will adjust the Company's rates as applicable for future
16 reductions to the state corporate net income tax rate.

17
18 **Q. Due to the Company's fiscal year ended September 30, when is the annual
19 Pennsylvania tax rate change effective?**

20 A. As provided in Act 53, the annual tax rates are for "*taxable years beginning...on or after*
21 *the (calendar year) dates set forth*" in the law. As explained in the Company's annual letter
22 at Docket No. M-2022-3037158, since UGI Electric's fiscal year begins on October 1, the
23 reduction in the tax rate for each calendar year is effective on October 1 rather than January
24 1.

1 Below is a table detailing the Company's state tax rates based on its fiscal years beginning
2 October 1 as detailed by the calendar year schedule in Act 53.

<u>Calendar Year</u>	<u>UGI Electric Fiscal Year Beginning</u>	<u>Tax Rates</u>
2023	October 1, 2023	8.99%
2024	October 1, 2024	8.49%
2025	October 1, 2025	7.99%
2026	October 1, 2026	7.49%
2027	October 1, 2027	6.99%
2028	October 1, 2028	6.49%
2029	October 1, 2029	5.99%
2030	October 1, 2030	5.49%
2031	October 1, 2031	4.99%

3
4 **Q. How is the Company applying the Pennsylvania tax rate change to its Repairs Tax**
5 **method?**

6 A. Consistent with historic treatment as described in Section D of this testimony, UGI
7 Electric's state regulatory liability associated with its repairs tax method will continue to
8 represent the tax benefit, based on the rate in effect, that ratepayers have not yet received.

9
10 **Q. Does this conclude your direct testimony?**

11 A. Yes, it does.

UGI ELECTRIC

EXHIBIT DTE-1

DARIN ESPIGH, CPA

PROFESSIONAL EXPERIENCE

UGI UTILITIES, INC., Denver, PA
Senior Manager of Natural Gas Tax Accounting

March 2022 - Present

Manage the accounting for income taxes in accordance with ASC 740 for Natural Gas business segment. Provide technical accounting guidance and expertise on tax accounting, planning and compliance matters. Oversee and review the preparation of information supporting various regulatory filings. Oversee and review the preparation of various tax related filings. Manage 1 direct report.

JBS USA, Greeley, CO
Senior Tax Manager, Tax Accounting and Global Reporting

2014 - March 2022

Manage tax accounting and reporting under ASC 740 including effective rate development, perm development, valuation allowances, ABP 23 indefinite reinvestment assertions, financial statement footnotes, management of global deferred inventory and FIN48/FAS 5 analysis for international consolidated financial statements. Responsible for IFRS adjustments and reporting package to Brazilian parent company. Interface with internal and external auditors. Managed tax accounting aspects of a large global reorganization. Design and streamline provision reporting packages to meet increased demands of public reporting.

Managed both federal and state income tax compliance. Responsible for attribution memos related to the preparation of Form 5472, R&D Credits, Sec 163(j), Schedule G and Schedule O compliance for more than 10 separate federal tax returns. Supervised income tax audits. Managed documentation and notice requirements related to the Foreign Investment in Real Property Tax Act (FIRPTA) related to distributions of U.S. real property interests by foreign corporations. Managed, trained and developed staff in tax accounting and financial reporting and compliance.

UGI UTILITIES, INC., Reading, PA
Senior Tax Analyst

2007 to 2014

Responsible for quarterly and annual tax accounting and reporting under ASC 740 including effective rate development, maintenance and classification of deferred inventory balances and account reconciliations. Calculate annual provision to return adjustment for year-end provision. Interface with internal and external auditors on tax related matters. Provide budget and forecast amounts for all tax related items. Preparation of tax data to support external regulatory reporting including Base Rate Case filings.

Preparation of income tax return support submitted to corporate for inclusion in the consolidated income tax return. Responsible for indirect tax compliance.

BERTZ & COMPANY, CPA's, Lancaster, PA
Senior Associate

2000 to 2007

Responsible for preparation of individual, corporate, partnership, nonprofit and payroll tax returns. Charged with the preparation of financial statements including required disclosures for a wide range of industries including construction, hospitality and retail food establishments. Supervised, trained and developed staff on client engagements.

Managed audit engagements of retirement plans and homeowner associations. Gained experience on a variety of other audits.

HATTER, HARRIS & BEITTEL, LLP, Lancaster, PA
Senior Associate

1994 to 2000

Prepared individual, corporate, partnership, nonprofit and payroll tax returns. Managed review and compilation engagements. Managed nonprofit audit. Developed significant experience in audits of school districts, retail and manufacturing businesses. Gained strong working knowledge of financial statements and related disclosures for engagements of all levels. Trained and developed new staff.

EDUCATION & CREDENTIALS

Bachelor of Science in Accounting - Messiah College, Grantham, PA - May 1994

Certified Public Accountant

Previous Testimony:

UGI Electric Base Rate Case

Docket No. R-2022-3037368

UGI Gas Base Rate Case

Docket No. R-2024-3052716

UGI Gas Base Rate Case

Docket No. R-2025-3059523

UGI ELECTRIC

EXHIBIT DTE-2

UGI - Electric Division
Calculation of Pro-Rata Accumulated Deferred Income Tax
(In Thousands)

Month	A Increase to Deferred Taxes	B # of Days	C = B/365 Pro-Rata %	D = C*A Pro-Rata Incr to Deferred Taxes	Per Treas. Reg.1.167(l)-1(h)(6)(ii)	
					Accumulated Deferred Income Tax	Deferred Income Tax Balance
9/30/2026					\$	27,557
10/31/2026	51	335	91.78%	47		27,604
11/30/2026	69	305	83.56%	58		27,661
12/31/2026	57	274	75.07%	43		27,704
1/31/2027	71	243	66.58%	48		27,752
2/28/2027	56	215	58.90%	33		27,784
3/31/2027	59	184	50.41%	30		27,814
4/30/2027	90	154	42.19%	38		27,852
5/31/2027	67	123	33.70%	22		27,875
6/30/2027	142	93	25.48%	36		27,911
7/31/2027	98	62	16.99%	17		27,928
8/31/2027	273	31	8.49%	23		27,951
9/30/2027	786	1	0.27%	2	\$	27,953

UGI ELECTRIC STATEMENT NO. 10

SHERRY A. EPLER

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-
3059430**

UGI Utilities, Inc. – Electric Division

Statement No. 10

**Direct Testimony of
Sherry A. Epler**

Topics Addressed:

**Sales and Revenues
Tariff Changes**

Dated: March 27, 2026

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Sherry A. Epler. My business address is 1 UGI Drive, Denver, PA 17517.

4
5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by UGI Utilities, Inc. (“UGI”) as Senior Manager, Tariff & Supplier
7 Administration. UGI is a wholly owned subsidiary of UGI Corporation (“UGI Corp.”).
8 UGI has two operating divisions, the Electric Division (“UGI Electric” or the “Company”)
9 and the Gas Division (“UGI Gas”), each of which is a public utility regulated by the
10 Pennsylvania Public Utility Commission (“Commission” or “PUC”).

11
12 **Q. What are your responsibilities as Senior Manager, Tariff & Supplier Administration
13 with respect to UGI Electric?**

14 A. My current responsibilities related to UGI Electric include: (1) all aspects of tariff and rate
15 administration, including interactions with electric retail suppliers under the Company’s
16 electric supplier tariff; and (2) revenue analysis.

17
18 **Q. Please provide your educational background and professional experience.**

19 A. Please see my resume, UGI Electric Exhibit SAE-1, which is attached to my testimony.

20
21 **Q. Have you testified previously before the Pennsylvania Public Utility Commission?**

22 A. Yes. UGI Electric Exhibit SAE-1 contains a list of those proceedings.

1 **Q. Please describe the purpose of your testimony.**

2 A. I will address: (1) the development of sales and revenue for the historic test year ended
3 September 30, 2025 (“HTY”), future test year ending September 30, 2026 (“FTY”), and
4 fully projected future test year ending September 30, 2027 (“FPFTY”); and (2) and certain
5 proposed tariff modifications.

6

7 **Q. Are any other witnesses providing testimony on the areas you identified above?**

8 A. Yes. Company witness Cynthia S. Fang, Director at Atrium Economics, LLC (UGI Electric
9 Statement No. 11), is sponsoring allocation of the revenue increase and rate design, in
10 addition to her testimony supporting class cost of service, using the projected sales and
11 revenue figures discussed in my testimony. Additionally, Company witness Jessica R.
12 Rogers (UGI Electric Statement No. 1) is sponsoring certain proposed tariff modifications.

13

14 **Q. Are you sponsoring any exhibits or filing requirements in this proceeding?**

15 A. Yes, I am sponsoring the following Exhibits: UGI Electric Exhibit SAE-1 (Resume), UGI
16 Electric Exhibit SAE-2 (10 Year Normal Heating and Cooling Degree Days 2015-2024),
17 UGI Electric Exhibit SAE-3 (UGI Electric Customer Counts), UGI Electric Exhibit SAE-
18 4 (Fully Projected Future Test Year Sales and Revenue Adjustments), UGI Electric Exhibit
19 SAE-5 (Future Test Year Sales and Revenue Adjustments), UGI Electric Exhibit SAE-6
20 (Historic Test Year Sales and Revenue Adjustments), UGI Electric Exhibit E (Proof of
21 Revenue), and certain portions of UGI Electric Exhibit F (Proposed Tariff). I am also
22 sponsoring certain responses to the Commission’s standard filing requirements, as

1 indicated on the matter list accompanying this filing, that were prepared by me or under
2 my direction.

3
4 **II. TEST YEARS' SALES AND REVENUES**

5 **A. Development of FPFTY Sales and Revenues**

6 **Q. Please explain how the Company's FPFTY sales and revenues were developed.**

7 A. FPFTY sales and revenues were developed by annualizing and normalizing the Company's
8 2027 fiscal year planned sales and revenue budget. Annualized sales were determined by
9 developing sales and revenue adjustments reflective of annual expected use per customer
10 and projected customer counts as of the end of the FPFTY, or September 30, 2027. UGI
11 Electric Exhibit SAE-2 provides the development of the Company's normal degree day
12 values, which are based on the 10-year period 2015-2024. This data was used in
13 normalizing use per customer for degree days. Normal Heating Degree Days ("HDD")
14 and Cooling Degree Days ("CDD") are now defined based upon an average over a 10-year
15 period with the most recent update of the 10-year period ending December 31, 2024.

16
17 **Q. Please describe the adjustments made to FPFTY sales and revenues for the twelve
18 months ending September 30, 2027.**

19 A. A summary of all adjustments made to the 2027 planned budget in order to develop FPFTY
20 sales is shown on UGI Electric Exhibit SAE-4(a). In total, these adjustments reflect a
21 decrease in sales of 15,349,000 kWh, or 1.55%, with a net downward adjustment to margin
22 of \$861,000, and a net decrease in revenues of \$5,897,000.

23

1 **Q. Please explain the “Adjustment for Customer Changes” shown on UGI Electric**
2 **Exhibit SAE-4(b).**

3 A. The “Adjustment for Customer Changes” annualizes customer counts for certain rate
4 classes to anticipated end-of-test-year levels. The Company projects customer growth
5 forward from September 2025 actual levels based on a two-year average growth pattern
6 from year-end September 2023 to year-end September 2024 and from year-end September
7 2024 to year-end September 2025, as shown in the presented customer rate categories. UGI
8 Electric Exhibit SAE-3 provides the actual historical customer count and illustrates the
9 relatively static nature of the service territory.

10

11 **Q. How is this adjustment quantified?**

12 A. UGI Electric Exhibit SAE-4(b) provides the calculation of the associated sales and revenue
13 adjustments related to customer count changes and reflects customer count increases for
14 default service customers taking service under Rate R-General, Rate R-Heating, Rate GS-
15 1-Commercial General, and a decrease for Rate GS-4-Commercial General. Adjustments
16 were made to these four rate class categories, as they comprise the majority of customer
17 counts and the largest total margin of dollars for the Company. In total, as reflected on
18 UGI Electric Exhibit SAE-4(a), this adjustment increases sales by 5,363,000 kWh and
19 increases projected revenues by \$986,000. The impact to margin is an increase of
20 \$300,000.

1 **Q. Please explain the adjustment for “Normalized Use/Customer.”**

2 A. As described by witness Vivian K. Ressler (UGI Electric Statement No. 4), the sales-kWh
3 values for the budget were developed using a rolling one-year actual of the sales-kWh for
4 each month for a one-year period ending April 2025. As the associated average degree
5 days for these periods differ from the Company’s 10-year period used to define normal
6 degree days for ratemaking purposes, or normal weather, an adjustment is necessary to
7 normalize usage to the Company’s stated 10-year normal weather. This adjustment utilizes
8 the variance between the calculated average degree days for the periods utilized for budget
9 development and the Company’s 10-year normal degree days to calculate the normalizing
10 adjustments. *See* UGI Electric Exhibit SAE-2 for related degree day data. UGI Electric
11 Exhibit SAE-4(c) shows the calculation of the adjustment of the use per default service
12 customer taking service under Rate R-General, Rate R-Heating, Rate GS-1-Commercial
13 General, and Rate GS-4-Commercial General, respectively. As shown in this exhibit, this
14 adjustment is calculated by applying the heating and cooling sensitivity per degree day to
15 the difference between the calculated average degree days for the periods utilized for
16 budget development and the Company’s 10-year normal degree days. In total, as reflected
17 on UGI Electric Exhibit SAE-4(a), this adjustment decreases sales by 20,712,000 kWh and
18 decreases projected revenues by \$3,783,000. The impact to margin is a decrease of
19 \$1,050,000.

1 **Q Please explain the adjustment on UGI Electric Exhibit SAE-4(d) “Adjustment for**
2 **GSR-1.”**

3 A. The “Adjustment for GSR-1” annualizes the revenue from the default service GSR-1 rate
4 based on the December 1, 2025, Residential GSR-1 rate of \$0.11211/kWh versus its
5 budgeted level of \$0.11470/kWh and Non-Residential GSR-1 rate of \$0.10758/kWh versus
6 its budgeted level of \$0.11005/kWh. This GSR-1 adjustment decreases projected revenues
7 by \$1,731,000 with no impact to margin.

8

9 **Q Please explain the adjustment on UGI Electric Exhibit SAE-4(e) “Adjustment for**
10 **USP.”**

11 A. The Adjustment for USP annualizes the revenue from the UGI Electric Rider C – Universal
12 Service Program (“USP”) rider based on the December 1, 2025, USP Rider rate of
13 \$0.01868/kWh versus its budgeted level of \$0.02121/kWh and updates for the base budget
14 volumes to which the \$0.02121/kWh rate is applied. This USP adjustment decreases
15 projected revenues by \$1,529,000 with no impact to margin.

16

17 **Q Please explain the adjustment on UGI Electric Exhibit SAE-4(f) “Adjustment for**
18 **STAS.”**

19 A. The “Adjustment for STAS” is the calculated State Tax Adjustment Surcharge (“STAS”)
20 on all Revenue adjustments presented in UGI Electric Exhibits SAE-4(b), (c), (d), (e), (g),
21 and (h). This STAS adjustment increases projected revenues by \$14,000 with no impact
22 to margin.

1 **Q. Please explain the “Adjustment for EEC Rider” on UGI Electric Exhibit SAE-4(g).**

2 A. The “Adjustment for EEC Rider” annualizes the revenue from the Energy Efficiency and
3 Conservation (“EE&C”) Rider (“EEC Rider”) for the FPFTY based on the EEC Rider rate
4 in effect as of December 1, 2025. This adjustment increases revenues by \$263,000 with
5 no impact to margin.

6

7 **Q. Please explain the “Adjustment for DSIC” on UGI Electric Exhibit SAE-4(h).**

8 A. The “Adjustment for DSIC” annualizes the Distribution System Improvement Charge
9 (“DSIC”) rate to reflect end of FPFTY conditions. This DSIC adjustment decreases
10 projected revenues by \$118,000 and decreases projected margins by \$111,000.

11

12 **B. Development of Sales and Revenue for the FTY and HTY**

13 **Q. How were normalized and annualized sales and revenue determined for the FTY**
14 **ending September 30, 2026?**

15 A. Budgeted sales and revenues served as the starting point for the development of the
16 normalized and annualized FTY sales and revenues summarized on UGI Electric Exhibit
17 SAE-5(a). All of the adjustments that were made in the development of the FPFTY were
18 also made in the development of the FTY, with the exception of the “Adjustment for
19 DSIC.” These detailed adjustments are contained in UGI Electric Exhibits SAE-5(b)-(g).

20

21 **Q. How were normalized and annualized sales and revenue determined for the HTY**
22 **ended September 30, 2025?**

23 A. Historic sales and revenues served as the starting point for the development of the
24 normalized and annualized HTY sales and revenues shown in summary on UGI Electric

1 Exhibit SAE-6(a). All of the adjustments that were made in the development of the FPPTY
2 were also made in the development of the HTY, except for the “Adjustment for DSIC.”

3 **III. TARIFF MODIFICATIONS**

4 **Q. What tariff changes are being proposed in this case?**

5 A. The Company is revising references to the Supplement Number, Notice Language, Issue
6 and Effective Dates, and page numbers as necessary; in accordance with 52 Pa. Code
7 Chapter 53 standards. Apart from the proposed rate schedule changes (in accordance with
8 this rate case filing), a complete list of tariff modifications can be found in the List of
9 Changes Made by the Supplement section in UGI Gas Exhibit F – Proposed Supplement
10 No. 92 to UGI Electric Tariff No. 6. More significant proposed changes to the tariff
11 include:

- 12 • Rule 13, Payment Terms, subsection 13-e, has clarifying language added to explain
13 that Budget Billing will be reviewed and adjusted on a quarterly basis.
- 14 • Subsection 13-j was added to specify the acceptable and Applicable Forms of
15 Payment that customers may remit to the Company for payment of public utility
16 service.
- 17 • Rider A – The State Tax Adjustment Surcharge was rolled into rates and reset to
18 0.00%.
- 19 • Rider C – Universal Service Program was revised so the CAP credit bad debt and
20 preprogram arrearage offset will be associated with the participants in excess of the
21 number of CAP enrollees as of September 30, 2026, in place of the existing
22 September 30, 2025, date. Additionally, language has been added to allow the USP
23 Rider to apply on a fully negotiated basis for certain Rate HTP customers allowing

1 those customers to contribute to Rider USP and otherwise lower USP costs borne
2 by the Company's residential customers.

- 3 • Rider G –DSIC was reset to 0.00% in accordance with 66 Pa. C.S. § 1358(b).
- 4 • Language has been added to allow the DSIC Rider to apply on a fully negotiated
5 basis for certain Rate HTP customers allowing those customers to contribute to the
6 DSIC rider and otherwise lower DSIC costs borne by the Company's other
7 customers.
- 8 • New rates have been added to Rates LED-OL and LED-SL for 300-350 wattage
9 range based on customer interest.
- 10 • Clarifying language has been added to multiple lighting rate schedules due to the
11 phase out of certain lights.

12
13 **Q. Are any other tariff changes being proposed by the Company?**

14 A. The Company has proposed other, less substantive, changes to the tariff that are listed on
15 page 2, List of Changes, of UGI Electric Exhibit F – Proposed Tariff.

16
17 **Q. Does this conclude your testimony?**

18 A. Yes.

UGI ELECTRIC

EXHIBIT SAE-1

Sherry Epler

Senior Manager, Tariff & Supplier Administration

Work Experience

UGI Utilities, Inc., Denver, PA

November 2019 – Present Senior Manager, Tariff & Supplier Administration

2018 – November 2019 Manager, Revenue/Sales & Choice Administration

UGI Utilities, Inc., Reading, PA

2000 – 2018 Rates Analyst – I/II/Sr/Principal (Progressive Positions)

1997 – 2000 Data and Expense Analyst – Residential Marketing

1990 – 1997 Staff Accountant – Supply Accounting

1989 – 1990 Accounting Assistant, Supply – Accounting

1988 – 1989 Accounting Assistant, Rates & Budgets – Accounting

1986 - 1988 Accounting Assistant B – Accounting

Education

Bachelor of Science, Accounting, Albright College, 1995

Associate of Science, Business Administration, Pennsylvania State University, 1986

Previous testimony provided before the Pennsylvania Public Utility Commission:

Docket No. R-2021-3023618 UGI Electric Base Rate Case

Docket No. R-2021-3030218 UGI Gas Base Rate Case

Docket No. R-2022-3037368 UGI Electric Base Rate Case

Docket No. R-2024-3052716 UGI Gas Base Rate Case

Docket No. R-2025-3059523 UGI Gas Base Rate Case

UGI ELECTRIC

EXHIBIT SAE-2

**UGI Utilities Inc. - Electric Division
10 Year Normal Heating Degree Days (2015-2024)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	10 Year Average *
Jan	1,268	1,140	992	1,210	1,188	956	1,082	1,271	836	1,027	1,097
Feb	1,309	924	757	824	953	828	1,009	923	803	824	915
Mar	996	623	938	955	872	641	682	728	799	660	789
Apr	446	495	289	628	371	545	424	482	341	382	440
May	94	236	225	87	145	234	217	108	214	108	167
Jun	25	26	41	26	26	28	18	16	50	8	26
Jul	0	0	0	0	0	0	3	0	0	0	0
Aug	0	0	19	0	3	0	0	0	1	17	4
Sep	38	60	94	82	49	95	53	92	109	40	71
Oct	390	352	224	413	302	320	203	401	301	313	322
Nov	509	623	701	812	798	525	737	582	725	601	661
Dec	638	996	1,108	933	961	945	788	991	785	1,040	920
Totals	5,713	5,475	5,388	5,970	5,668	5,117	5,216	5,594	4,964	5,020	5,412

**UGI Utilities Inc. - Electric Division
10 Year Normal Cooling Degree Days (2015-2024)**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	10 Year Average *
Jan	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	1	15	4	7	0	6	2	29	12	8
May	143	69	35	77	32	61	58	73	18	68	63
Jun	153	151	161	117	113	178	201	123	91	208	150
Jul	244	326	244	261	320	377	221	339	273	323	293
Aug	210	290	140	262	196	269	274	284	145	186	226
Sep	134	117	102	119	79	86	74	72	86	50	92
Oct	0	9	37	28	14	5	10	0	12	3	12
Nov	1	0	0	0	0	1	0	8	0	5	0
Dec	0	0	0	0	0	0	0	0	0	0	0
Totals	885	963	734	868	761	977	844	901	654	855	844

*Average adjusted for rounding of 10 year calculation and normal representation of Heating & Cooling Degree Days falling consecutively through normal year

UGI ELECTRIC

EXHIBIT SAE-3

UGI Utilities Inc. - Electric Division
Customer Counts at Year End September

	Sept 1995	Sept 2017	Sept 2018	Sept 2019	Sept 2020	Sept 2021	Sept 2022	Sept 2023	Sept 2024	Sept 2025	Sept 2026	Sept 2027
Residential Non- Heating	42,920	44,014	44,024	44,104	44,301	44,237	44,253	44,279	44,356	44,488	44,533	44,663
Residential Heating	10,389	10,341	10,372	10,347	10,415	10,448	10,532	10,544	10,583	10,599	10,626	10,667
Commercial Non-Heating	5,872	7,142	7,179	7,239	7,294	7,302	7,292	7,338	7,385	7,349	7,374	7,412
Commercial Heating	585	336	338	337	331	327	329	327	322	326	325	325
Industrial Non-Heating	136	118	118	115	117	121	120	119	118	116	118	118
Industrial Heating	45	35	35	35	35	35	35	35	35	35	35	35
Public St & Hwy Lighting	51	54	53	54	53	53	55	54	54	54	54	54
Other	5	7	7	7	7	7	7	7	7	7	7	7
Sales for Resale	2	3	3	3	3	3	3	3	3	3	3	3
Total	60,005	62,050	62,129	62,241	62,556	62,533	62,626	62,706	62,863	62,977	63,075	63,284

Note: Excludes unmetered Lighting

UGI ELECTRIC

EXHIBIT SAE-4(a) – SAE-4(h)

UGI Utilities, Inc.- Electric Division
Fully Projected Future Test Year 2027 Sales and Revenues
Summary of Adjustments

	Sales (000's) MWh	Revenues (\$000's)	Margin (\$000's) Reference
Budget 2027	992,290	149,982	52,528
Adjustment for Customer Changes	5,363	986	300 UGI Electric Exhibit SAE-4(b)
Adjustment for Normalized Use/Customer	(20,712)	(3,783)	(1,050) UGI Electric Exhibit SAE-4(c)
Adjustment for GSR-1		(1,731)	0 UGI Electric Exhibit SAE-4(d)
Adjustment for USP		(1,529)	0 UGI Electric Exhibit SAE-4(e)
Adjustment for STAS		14	0 UGI Electric Exhibit SAE-4(f)
Adjustment for EEC		263	0 UGI Electric Exhibit SAE-4(g)
Adjustment for DSIC		(118)	(111) UGI Electric Exhibit SAE-4(h)
Fully Projected Future Test Year 2027	976,941	144,085	51,667

UGI Utilities, Inc.- Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for Customer Changes
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #		[1] Rate R General	[2] Rate R Heating	[3] Rate GS-1 Com-Gen	[4] Rate GS-4 Com-Gen	[5] Total
1	Original Budget Customers in FPFTY 2027 (Unadjusted)	44,000	10,478	4,799	1,706	60,983
2	FPFTY 2027 Customers (Fully Adjusted)	44,260	10,560	4,839	1,742	61,401
3	Change in Customers during FPFTY 2027	260	82	40	36	418
4	Total UPC (Unadjusted)-kWh	8,724	16,320	4,940	43,311	73,296
5	Annualization Adjustment for Sales-MWh	2,268	1,338	198	1,559	5,363
6	USP unit rate \$/kWh	\$ 0.01868	\$ 0.01868	\$ -	\$ -	
7	EEC-Class 1 & Class 2 unit rate \$/kWh	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
8	GSR-1 unit rate \$/kWh	\$ 0.11211	\$ 0.11211	\$ 0.10758	\$ 0.10758	
9	Distribution unit rate (margin plus GRT) \$/kWh	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
10	Customer Charge rate \$/month	\$ 10.75000	\$ 10.75000	\$ 17.00000	\$ 18.00000	
11	Total Revenue Adjustment (L12+L13+L14+L15+L16)	\$ 454	\$ 259	\$ 42	\$ 231	\$ 986
12	USP Adjustment (L5 * L6)	\$ 42	\$ 25	\$ -	\$ -	\$ 67
13	EEC Adjustment (L5 * L7)	\$ 4	\$ 2	\$ 0	\$ 4	\$ 11
14	GSR Adjustment (L5 * L8)	\$ 254	\$ 150	\$ 21	\$ 168	\$ 593
15	Distribution Adjustment (L5 * L9)	\$ 120	\$ 71	\$ 12	\$ 52	\$ 255
16	Customer Charge Adjustment (L3*12*L10)	\$ 34	\$ 11	\$ 8	\$ 8	\$ 60
17	Total Margin Adjustment (L15 less GRT+L16)	\$ 146	\$ 77	\$ 19	\$ 57	\$ 300

UGI Utilities, Inc.- Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for Usage per Customer
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #	[1] Rate R General	[2] Rate R Heating	[3] Rate GS-1 Com-Gen	[4] Rate GS-4 Com-Gen	[5] Total
1	\$ 1.6999	\$ 0.5644	\$ 3.1200	\$ 0.4490	
2	(193)	(193)	(193)	(193)	
3	(328)	(109)	(602)	(87)	
4	44,260	10,560	4,839	1,742	
5	(14,521)	(1,150)	(2,914)	(151)	(18,736)
6	\$ 0.18550	\$ 0.18550	\$ 0.16978	\$ 0.14330	
7	\$ 0.01868	\$ 0.01868	\$ -	\$ -	
8	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
9	\$ 0.11211	\$ 0.11211	\$ 0.10758	\$ 0.10758	
10	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
11	\$ (2,694)	\$ (213)	\$ (495)	\$ (22)	\$ (3,423)
12	\$ (271)	\$ (21)	\$ -	\$ -	\$ (293)
13	\$ (26)	\$ (2)	\$ (7)	\$ (0)	\$ (36)
14	\$ (1,628)	\$ (129)	\$ (313)	\$ (16)	\$ (2,087)
15	\$ (768)	\$ (61)	\$ (174)	\$ (5)	\$ (1,008)
16	\$ (723)	\$ (57)	\$ (164)	\$ (5)	\$ (949)
17	\$ 0.5761	\$ 0.6299	\$ 1.7746	\$ 0.2485	
18	(48)	(48)	(48)	(48)	
19	(28)	(30)	(85)	(12)	
20	44,260	10,560	4,839	1,742	
21	(1,224)	(319)	(412)	(21)	(1,976)
22	\$ 0.18550	\$ 0.18550	\$ 0.16978	\$ 0.14330	
23	\$ 0.01868	\$ 0.01868	\$ -	\$ -	
24	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
25	\$ 0.11211	\$ 0.11211	\$ 0.10758	\$ 0.10758	
26	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
27	\$ (227)	\$ (59)	\$ (70)	\$ (3)	\$ (359)
28	\$ (23)	\$ (6)	\$ -	\$ -	\$ (29)
29	\$ (2)	\$ (1)	\$ (1)	\$ (0)	\$ (4)
30	\$ (137)	\$ (36)	\$ (44)	\$ (2)	\$ (220)
31	\$ (65)	\$ (17)	\$ (25)	\$ (1)	\$ (107)
32	\$ (61)	\$ (16)	\$ (23)	\$ (1)	\$ (101)
33					
34	(15,745)	(1,470)	(3,326)	(172)	(20,712)
35	\$ (2,921)	\$ (273)	\$ (565)	\$ (25)	\$ (3,783)
36	\$ (294)	\$ (27)	\$ -	\$ -	\$ (322)
37	\$ (28)	\$ (3)	\$ (8)	\$ (0)	\$ (39)
38	\$ (1,765)	\$ (165)	\$ (358)	\$ (18)	\$ (2,306)
39	\$ (833)	\$ (78)	\$ (199)	\$ (6)	\$ (1,116)
40	\$ (784)	\$ (73)	\$ (187)	\$ (5)	\$ (1,050)

UGI Utilities, Inc. - Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for GSR-1

	OCT 2026	NOV 2026	DEC 2026	JAN 2027	FEB 2027	MAR 2027	APR 2027	MAY 2027	JUN 2027	JUL 2027	AUG 2027	SEP 2027	TOTAL
Residential													
Original Budget GSR-1 Rate FPFTY 2027-\$/kWh	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	
FPFTY 2027 Annulized GSR-1 Dec 1, 2025 Rate-\$/kWh	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	
GSR-1 Rate Variance	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	
Total GSR-1 Volumes-MWh	36,802	40,835	62,296	68,000	51,488	48,604	35,160	37,276	43,514	55,414	44,111	31,982	555,481
GSR-1 Revenue Adjustment	(\$95)	(\$106)	(\$161)	(\$176)	(\$133)	(\$126)	(\$91)	(\$97)	(\$113)	(\$144)	(\$114)	(\$83)	(\$1,439)
Non-Residential													
Original Budget GSR-1 Rate FPFTY 2027-\$/kWh	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	
FPFTY 2027 Annulized GSR-1 Dec 1, 2025 Rate-\$/kWh	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	
GSR-1 Rate Variance	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	
Total GSR-1 Volumes-MWh	8,657	8,628	10,676	12,340	10,254	9,603	8,768	9,179	10,100	11,094	10,354	8,649	118,302
GSR-1 Revenue Adjustment	(\$21)	(\$21)	(\$26)	(\$30)	(\$25)	(\$24)	(\$22)	(\$23)	(\$25)	(\$27)	(\$26)	(\$21)	(\$292)
Total													
Total GSR-1 Volumes-MWh	45,459	49,462	72,973	80,340	61,741	58,207	43,928	46,455	53,614	66,507	54,465	40,631	673,782
GSR-1 Revenue Adjustment	(\$117)	(\$127)	(\$188)	(\$207)	(\$159)	(\$150)	(\$113)	(\$119)	(\$138)	(\$171)	(\$140)	(\$104)	(\$1,731)

UGI Utilities, Inc.- Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for USP

	OCT 2026	NOV 2026	DEC 2026	JAN 2027	FEB 2027	MAR 2027	APR 2027	MAY 2027	JUN 2027	JUL 2027	AUG 2027	SEP 2027	TOTAL
Original Budget USP Calculation	\$720	\$799	\$1,219	\$1,331	\$1,007	\$951	\$687	\$730	\$852	\$1,084	\$863	\$625	\$10,869
Updated Budget USP Calculation	\$702	\$780	\$1,189	\$1,299	\$983	\$928	\$671	\$712	\$831	\$1,058	\$842	\$610	\$10,605
Variance to Original Budget Calculation	(\$17)	(\$19)	(\$30)	(\$32)	(\$24)	(\$23)	(\$17)	(\$18)	(\$21)	(\$26)	(\$21)	(\$15)	(\$264)
Original Budget USP Rate FPFTY 27 - \$kWh	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	
FPFTY 2027 Annualized USP Dec 1, 2025 Rate-\$kWh	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	
USP Rate Variance-\$kWh	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	
Total Rate R Volumes-MWh	37,121	41,210	62,864	68,628	51,942	49,046	35,451	37,626	43,924	55,924	44,490	32,252	560,479
Total Rate R excl CAP Volumes-MWh	33,116	36,766	56,081	61,223	46,335	43,753	31,624	33,567	39,185	49,888	39,687	28,771	499,996
USP Rate Revenue Variance	(\$84)	(\$93)	(\$142)	(\$155)	(\$117)	(\$111)	(\$80)	(\$85)	(\$99)	(\$126)	(\$100)	(\$73)	(\$1,265)
Total Revenue Variance	(\$101)	(\$112)	(\$171)	(\$187)	(\$142)	(\$134)	(\$97)	(\$103)	(\$120)	(\$153)	(\$121)	(\$88)	(\$1,529)

UGI Utilities, Inc. - Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for STAS

	Unadjusted Budget Revenue Excluding STAS	Customer Adj	UPC Adj	GSR-1	USP	EEC	DSIC Adj	Revised Revenue Excluding STAS	STAS Revenue @ Dec 1, 2025 Rate	STAS Revenue @ Budget Rate	STAS Adjustment
Residential	\$ 114,727	\$ 713	\$ (3,193)	\$ (1,439)	\$ (1,529)	168	\$ (116)	\$ 109,332	0.02%	22	\$ 11
Commercial & Industrial	\$ 34,603	\$ 273	\$ (589)	\$ (290)	\$ -	91	\$ (2)	\$ 34,085		7	\$ 3
Public Streets & Highway Lighting	\$ 613	\$ -	\$ -	\$ (2)	\$ -	3	\$ 0	\$ 614		0	\$ 0
Other Sales to Public Authorities	\$ 20	\$ -	\$ -	\$ -	\$ -	1	\$ 0	\$ 21		0	\$ 0
Sales for Resale	\$ 4	\$ -	\$ -	\$ -	\$ -	0	\$ (0)	\$ 4		0	\$ 0
Total	\$ 149,967	\$ 986	\$ (3,783)	\$ (1,731)	\$ (1,529)	263	\$ (118)	\$144,056		29	\$ 15

UGI Utilities, Inc.- Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for EEC

	OCT 2026	NOV 2026	DEC 2026	JAN 2027	FEB 2027	MAR 2027	APR 2027	MAY 2027	JUN 2027	JUL 2027	AUG 2027	SEP 2027	TOTAL
Original Budget EEC-Class 1 Rate FPFTY 2027-\$/kWh	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	
FPFTY 2027 Annualized EEC-Class 1 Rate Effective Dec 1,2025-\$/kWh	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	
EEC-Class 1 Rate Variance-\$/kWh	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	
Total EEC-Class 1 Volumes-MWh	37,252	41,343	63,024	68,799	52,072	49,178	35,558	37,750	44,052	56,072	44,633	32,373	562,105
Total EEC-Class 1 Revenue Adjustment	\$11	\$12	\$19	\$21	\$16	\$15	\$11	\$11	\$13	\$17	\$13	\$10	\$169
Original Budget EEC-Class 2 Rate FPFTY 2027-\$/kWh	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	
FPFTY 2027 Annualized EEC-Class 2 Rate Effective Dec 1,2025-\$/kWh	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	
EEC-Class 2 Rate Variance-\$/kWh	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	
Total EEC-Class 2 Volumes-MWh	11,831	11,066	14,812	15,539	12,129	12,272	10,922	12,544	13,702	15,105	13,526	11,226	154,676
Total EEC-Class 2 Revenue Adjustment	\$13	\$12	\$16	\$17	\$13	\$14	\$12	\$14	\$15	\$17	\$15	\$12	\$172
Original Budget EEC-Class 3 Rate FPFTY 2027-\$/kWh	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	
FPFTY 2027 Annualized EEC-Class 3 Rate Effective Dec 1,2025-\$/kWh	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	
EEC-Class 3 Rate Variance-\$/kWh	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	
Total EEC-Class 3 Volumes-MWh	19,846	22,907	19,585	23,771	26,772	19,069	23,375	21,499	24,214	23,054	26,643	24,776	275,509
Total EEC-Class 3 Revenue Adjustment	(\$6)	(\$6)	(\$5)	(\$7)	(\$7)	(\$5)	(\$7)	(\$6)	(\$7)	(\$6)	(\$7)	(\$7)	(\$77)
Total EEC Revenue Adjustment	\$19	\$18	\$30	\$31	\$22	\$23	\$16	\$19	\$22	\$27	\$21	\$15	\$263

UGI Utilities, Inc.- Electric Division
Fully Projected Future Period- 12 Months Ended September 30, 2027
(\$ in Thousands)

Adjustment for DSIC

	Unadjusted Budget DSIC Revenue @5%	Adjusted Budget DSIC Revenue @ 5%	DSIC Revenue Adjustment	GRT on DISC Adjustment	DSIC Margin Adjustment
Residential	\$ 2,429	\$ 2,314	\$ (116)	\$ 7	\$ (109)
Commercial & Industrial	\$ 776	\$ 774	\$ (2)	\$ 0	\$ (2)
Public Streets & Highway Lighting	\$ 25	\$ 25	\$ 0	\$ (0)	\$ 0
Other Sales to Public Authorities	\$ 1	\$ 1	\$ 0	\$ (0)	\$ 0
Sales for Resale	\$ 0	\$ 0	\$ (0)	\$ 0	\$ (0)
Total	\$ 3,231	\$ 3,113	\$ (118)	\$ 7	\$ (111)

UGI ELECTRIC

EXHIBIT SAE-5(a) – SAE-5(g)

**UGI Utilities, Inc.- Electric Division
 Future Test Year 2026 Sales and Revenues
 Summary of Adjustments**

	Sales (000's) MWh	Revenues (\$000's)	Margin (\$000's)	Reference
Budget 2026	992,290	148,872	51,484	
Adjustment for Customer Changes	2,682	493	150	UGI Electric Exhibit SAE-4(b)
Adjustment for Normalized Use/Customer	(20,645)	(3,770)	(1,046)	UGI Electric Exhibit SAE-4(c)
Adjustment for GSR-1		(1,731)	0	UGI Electric Exhibit SAE-4(d)
Adjustment for USP		(1,529)	0	UGI Electric Exhibit SAE-4(e)
Adjustment for STAS		14	0	UGI Electric Exhibit SAE-4(f)
Adjustment for EEC		263	0	UGI Electric Exhibit SAE-4(g)
Future Test Year 2026	974,327	142,612	50,588	

UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)

Adjustment for Customer Changes
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #	[1] Rate R General	[2] Rate R Heating	[3] Rate GS-1 Com-Gen	[4] Rate GS-4 Com-Gen	[5] Total	
1	Customers in Test Year 2026 (Unadjusted)	44,000	10,478	4,799	1,706	60,983
2	Future Test Year 2026 Customers (Fully Adjusted)	44,130	10,519	4,819	1,724	61,192
3	Change in Customers during Future Test Year 2026	130	41	20	18	209
4	Total UPC (Unadjusted)-kWh	8,724	16,320	4,940	43,311	73,296
5	Annualization Adjustment for Sales-MWh	1,134	669	99	780	2,682
6	USP unit rate \$/kWh	0.01868	0.01868	0.00000	0.00000	
7	EEC-Class 1 & Class 2 unit rate \$/kWh	0.00181	0.00181	0.00233	0.00233	
8	GSR-1 unit rate \$/kWh	0.11211	0.11211	0.10758	0.10758	
9	Distribution unit rate (margin plus GRT) \$/kWh	0.05290	0.05290	0.05987	0.03339	
10	Customer Charge rate \$/month	\$ 10.75000	\$ 10.75000	\$ 17.00000	\$ 18.00000	
11	Total Revenue Adjustment (L12+L13+L14+L15+L16)	\$ 227	\$ 129	\$ 21	\$ 116	\$ 493
12	USP Adjustment (L5 * L6)	\$ 21	\$ 12	\$ -	\$ -	\$ 34
13	EEC Adjustment (L5 * L7)	\$ 2	\$ 1	\$ 0	\$ 2	\$ 5
14	GSR Adjustment (L5 * L8)	\$ 127	\$ 75	\$ 11	\$ 84	\$ 297
15	Distribution Adjustment (L5 * L9)	\$ 60	\$ 35	\$ 6	\$ 26	\$ 127
16	Customer Charge Adjustment (L3*L10)	\$ 17	\$ 5	\$ 4	\$ 4	\$ 30
17	Total Margin Adjustment (L15 less GRT+L16)	\$ 73	\$ 39	\$ 10	\$ 28	\$ 150

UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)

Adjustment for Usage per Customer
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #		[1] Rate R General	[2] Rate R Heating	[3] Rate GS-1 Com-Gen	[4] Rate GS-4 Com-Gen	[5] Total
1	Heating Sensitivity/HDD/cust (kWh/DD/cust)	1.6999	0.5644	3.1200	0.4490	
2	DD Variance (to 10 Year normal)	(193)	(193)	(193)	(193)	
3	kWh/customer adjustment (L1 * L2)	(328)	(109)	(602)	(87)	
4	Customers FY26 (fully adjusted)	44,130	10,519	4,819	1,724	
5	Normalizing Adj (L3 * L4)/1000 -MWh	(14,478)	(1,146)	(2,902)	(149)	(18,675)
6	Total Revenue unit rate (L7+L8+L9+L10+L11)-\$/kWh	0.1855	0.1855	0.16978	0.14330	
7	USP unit rate-\$/kWh	0.01868	0.01868	0.00000	0.00000	
8	EEC-Class 1 & Class 2 unit rate-\$/kWh	0.00181	0.00181	0.00233	0.00233	
9	GSR-1 unit rate-\$/kWh	0.11211	0.11211	0.10758	0.10758	
10	Distribution unit rate (margin plus GRT)-\$/kWh	0.05290	0.05290	0.05987	0.03339	
11	Revenue Adjustment (L5 * L6)	\$ (2,686)	\$ (213)	\$ (493)	\$ (21)	\$ (3,412)
12	USP Adjustment (L5 * L7)	\$ (270)	\$ (21)	\$ -	\$ -	\$ (292)
13	EEC Adjustment (L5 * L8)	\$ (26)	\$ (2)	\$ (7)	\$ (0)	\$ (35)
14	GSR Adjustment (L5 * L9)	\$ (1,623)	\$ (128)	\$ (312)	\$ (16)	\$ (2,080)
15	Distribution Adjustment (L5 * L10)	\$ (766)	\$ (61)	\$ (174)	\$ (5)	\$ (1,005)
16	Margin Adjustment (L15 less GRT)	\$ (721)	\$ (57)	\$ (163)	\$ (5)	\$ (946)
17	Cooling Sensitivity/CDD/cust (kWh/DD/cust)	0.5761	0.6299	1.7746	0.2485	
18	DD Variance (to 10 Year normal)	(48)	(48)	(48)	(48)	
19	kWh/customer adjustment (L17 * L18)	(28)	(30)	(85)	(12)	
20	Customers FY26 (fully adjusted)	44,130	10,519	4,819	1,724	
21	Normalizing Adj (L19 * L20)/1000 -MWh	(1,220)	(318)	(410)	(21)	(1,969)
22	Total Revenue unit rate (L23+L24+L25+L26)-\$/kWh	0.1855	0.1855	0.16978	0.14330	
23	USP unit rate-\$/kWh	0.01868	0.01868	0.00000	0.00000	
24	EEC-Class 1 & Class 2 unit rate-\$/kWh	0.00181	0.00181	0.00233	0.00233	
25	GSR-1 unit rate-\$/kWh	0.11211	0.11211	0.10758	0.10758	
26	Distribution unit rate (margin plus GRT)-\$/kWh	0.0529	0.0529	0.05987	0.03339	
27	Revenue Adjustment (L21 * L22)	\$ (226)	\$ (59)	\$ (70)	\$ (3)	\$ (358)
28	USP Adjustment (L21 * L23)	\$ (23)	\$ (6)	\$ -	\$ -	\$ (29)
29	EEC Adjustment (L21 * L24)	\$ (2)	\$ (1)	\$ (1)	\$ (0)	\$ (4)
30	GSR Adjustment (L21 * L25)	\$ (137)	\$ (36)	\$ (44)	\$ (2)	\$ (219)
31	Distribution Adjustment (L21 * L26)	\$ (65)	\$ (17)	\$ (25)	\$ (1)	\$ (107)
32	Margin Adjustment (L31 less GRT)	\$ (61)	\$ (16)	\$ (23)	\$ (1)	\$ (100)
33	Total Adjustment Summary-FY26					
34	Normalizing Adj (L5+L21)-MWh	(15,699)	(1,464)	(3,312)	(170)	(20,645)
35	Total Revenue Adjustment (L11+L27)	\$ (2,912)	\$ (272)	\$ (562)	\$ (24)	\$ (3,770)
36	Total USP Adjustment (L12+L28)	\$ (293)	\$ (27)	\$ -	\$ -	\$ (321)
37	Total EEC Adjustment (L13+L29)	\$ (28)	\$ (3)	\$ (8)	\$ (0)	\$ (39)
38	Total GSR Adjustment(L14+L30)	\$ (1,760)	\$ (164)	\$ (356)	\$ (18)	\$ (2,299)
39	Total Distribution Adjustment(L15+L31)	\$ (830)	\$ (77)	\$ (198)	\$ (6)	\$ (1,112)
40	Total Margin Adjustment (L16+L32)	\$ (781)	\$ (73)	\$ (187)	\$ (5)	\$ (1,046)

UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)

Adjustment for GSR-1

	OCT 2025	NOV 2025	DEC 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2026	JUN 2026	JUL 2026	AUG 2026	SEP 2026	TOTAL
Residential													
Original Budget GSR-1 Rate FTY 2026-\$/kWh	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	
FTY 2026 Annulized GSR-1 Dec 1, 2025 Rate-\$/kWh	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	\$0.11211	
GSR-1 Rate Variance	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	(\$0.00259)	
Total GSR-1 Volumes-MWh	36,802	40,835	62,296	68,000	51,488	48,604	35,160	37,276	43,514	55,414	44,111	31,982	555,481
GSR-1 Revenue Adjustment	(\$95)	(\$106)	(\$161)	(\$176)	(\$133)	(\$126)	(\$91)	(\$97)	(\$113)	(\$144)	(\$114)	(\$83)	(\$1,439)
Non-Residential													
Original Budget GSR-1 Rate FTY 2026-\$/kWh	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	
FTY 2026 Annulized GSR-1 Dec 1, 2025 Rate-\$/kWh	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	\$0.10758	
GSR-1 Rate Variance	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	(\$0.00247)	
Total GSR-1 Volumes-MWh	8,657	8,628	10,676	12,340	10,254	9,603	8,768	9,179	10,100	11,094	10,354	8,649	118,302
GSR-1 Revenue Adjustment	(\$21)	(\$21)	(\$26)	(\$30)	(\$25)	(\$24)	(\$22)	(\$23)	(\$25)	(\$27)	(\$26)	(\$21)	(\$292)
Total													
Total GSR-1 Volumes-MWh	45,459	49,462	72,973	80,340	61,741	58,207	43,928	46,455	53,614	66,507	54,465	40,631	673,782
GSR-1 Revenue Adjustment	(\$117)	(\$127)	(\$188)	(\$207)	(\$159)	(\$150)	(\$113)	(\$119)	(\$138)	(\$171)	(\$140)	(\$104)	(\$1,731)

**UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)**

Adjustment for USP

	OCT 2025	NOV 2025	DEC 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2026	JUN 2026	JUL 2026	AUG 2026	SEP 2026	TOTAL
Original Budget USP Calculation	\$720	\$799	\$1,219	\$1,331	\$1,007	\$951	\$687	\$730	\$852	\$1,084	\$863	\$625	\$10,869
Updated Budget USP Calculation	\$702	\$780	\$1,189	\$1,299	\$983	\$928	\$671	\$712	\$831	\$1,058	\$842	\$610	\$10,605
Variance to Original Budget Calculation	(\$17)	(\$19)	(\$30)	(\$32)	(\$24)	(\$23)	(\$17)	(\$18)	(\$21)	(\$26)	(\$21)	(\$15)	(\$264)
Original Budget USP Rate FY 26-\$/kWh	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	
FTY 2026 USP Dec 1 Rate-\$/kWh	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	\$0.01868	
USP Rate Variance-\$/kWh	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	(\$0.00253)	
Total Rate R Volumes-MWh	37,121	41,210	62,864	68,628	51,942	49,046	35,451	37,626	43,924	55,924	44,490	32,252	560,479
Total Rate R excl CAP Volumes-MWh	33,116	36,766	56,081	61,223	46,335	43,753	31,624	33,567	39,185	49,888	39,687	28,771	499,996
USP Rate Revenue Variance	(\$84)	(\$93)	(\$142)	(\$155)	(\$117)	(\$111)	(\$80)	(\$85)	(\$99)	(\$126)	(\$100)	(\$73)	(\$1,265)
Total Revenue Variance	(\$101)	(\$112)	(\$171)	(\$187)	(\$142)	(\$134)	(\$97)	(\$103)	(\$120)	(\$153)	(\$121)	(\$88)	(\$1,529)

UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)

Adjustment for STAS

	Unadjusted Budget Revenue Excluding STAS	Customer Adj	UPC Adj	GSR-1	USP	EEC	Revised Revenue Excluding STAS	STAS Revenue @ Dec 1 Rate 0.02%	STAS Revenue @ Budget Rate 0.01%	STAS Adjustment
Residential	\$ 113,881	\$ 357	\$ (3,184)	\$ (1,439)	\$ (1,529)	168	\$ 108,255	\$ 22	\$ 11	10
Commercial & Industrial	\$ 34,348	\$ 136	\$ (587)	\$ (290)	\$ -	91	\$ 33,698	\$ 7	\$ 3	3
Public Streets & Highway Lighting	\$ 604	\$ -	\$ -	\$ (2)	\$ -	3	\$ 606	\$ 0	\$ 0	0
Other Sales to Public Authorities	\$ 20	\$ -	\$ -	\$ -	\$ -	1	\$ 20	\$ 0	\$ 0	0
Sales for Resale	\$ 4	\$ -	\$ -	\$ -	\$ -	0	\$ 4	\$ 0	\$ 0	0
Total	\$ 148,857	\$ 493	\$ (3,770)	\$ (1,731)	\$ (1,529)	263	\$142,583	\$ 29	\$ 15	14

UGI Utilities, Inc.- Electric Division
Future Period- 12 Months Ended September 30, 2026
(\$ in Thousands)

Adjustment for EEC

	OCT 2025	NOV 2025	DEC 2025	JAN 2026	FEB 2026	MAR 2026	APR 2026	MAY 2026	JUN 2026	JUL 2026	AUG 2026	SEP 2026	TOTAL
Original Budget EEC-Class 1 Rate FTY 2026-\$/kWh	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	
FTY 20267 Annualized EEC-Class 1 Rate Effective Dec 1,2025-\$/kWh	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	
EEC-Class 1 Rate Variance-\$/kWh	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	
Total EEC-Class 1 Volumes-MWh	37,252	41,343	63,024	68,799	52,072	49,178	35,558	37,750	44,052	56,072	44,633	32,373	562,105
Total EEC-Class 1 Revenue Adjustment	\$11	\$12	\$19	\$21	\$16	\$15	\$11	\$11	\$13	\$17	\$13	\$10	\$169
Original Budget EEC-Class 2 Rate FTY 2026-\$/kWh	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	
FTY 2026 Annualized EEC-Class 2 Rate Effective Dec 1,2025-\$/kWh	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	
EEC-Class 2 Rate Variance-\$/kWh	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	
Total EEC-Class 2 Volumes-MWh	11,831	11,066	14,812	15,539	12,129	12,272	10,922	12,544	13,702	15,105	13,526	11,226	154,676
Total EEC-Class 2 Revenue Adjustment	\$13	\$12	\$16	\$17	\$13	\$14	\$12	\$14	\$15	\$17	\$15	\$12	\$172
Original Budget EEC-Class 3 Rate FTY 2026-\$/kWh	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	
FTY 2026 Annualized EEC-Class 3 Rate Effective Dec 1,2025-\$/kWh	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	
EEC-Class 3 Rate Variance-\$/kWh	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	
Total EEC-Class 3 Volumes-MWh	19,846	22,907	19,585	23,771	26,772	19,069	23,375	21,499	24,214	23,054	26,643	24,776	275,509
Total EEC-Class 3 Revenue Adjustment	(\$6)	(\$6)	(\$5)	(\$7)	(\$7)	(\$5)	(\$7)	(\$6)	(\$7)	(\$6)	(\$7)	(\$7)	(\$77)
Total EEC Revenue Adjustment	\$19	\$18	\$30	\$31	\$22	\$23	\$16	\$19	\$22	\$27	\$21	\$15	\$263

UGI ELECTRIC

EXHIBIT SAE-6(a) – SAE-6(g)

**UGI Utilities, Inc.- Electric Division
Historic Test Year 2025 Sales and Revenues
Summary of Adjustments**

	Sales (000's) MWh	Revenues (\$000's)	Margin (\$000's)	Reference
Actual 2025	988,200	146,117	50,101	
Adjustment for Customer Changes	985	161	44	UGI Electric Exhibit SAE-6(b)
Adjustment for Normalized Use/Customer	(16,254)	(3,062)	(823)	UGI Electric Exhibit SAE-6(c)
Adjustment for GSR-1		3,065	0	UGI Electric Exhibit SAE-6(d)
Adjustment for USP		289	0	UGI Electric Exhibit SAE-6(e)
Adjustment for STAS		19	0	UGI Electric Exhibit SAE-6(f)
Adjustment for EEC		242	0	UGI Electric Exhibit SAE-6(g)
Adjusted Historic Test Year 2025	972,930	146,832	49,322	

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for Customer Changes
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #	[1]	[2]	[3]	[4]	[5]	
	Rate R General	Rate R Heating	Rate GS-1 Com-Gen	Rate GS-4 Com-Gen	Total	
1	Average Effective Customers in Historic Year	44,135	10,516	4,813	1,723	61,187
2	Number of Customers at End of Year	44,144	10,521	4,827	1,741	61,233
3	Change in Customers during Historic Year 2025	9	5	14	18	46
4	Total UPC (Unadjusted)-kWh	8,652	16,297	5,006	42,678	
5	Annualization Adjustment for Sales-MWh	81	78	72	753	985
6	USP unit rate \$/kWh	\$ 0.02222	\$ 0.02222	\$ -	\$ -	
7	EEC-Class 1 & Class 2 unit rate \$/kWh	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
8	GSR-1 unit rate \$/kWh	\$ 0.11470	\$ 0.11470	\$ 0.11005	\$ 0.11005	
9	Distribution unit rate (margin plus GRT) \$/kWh	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
10	Customer Charge rate \$/month	\$ 10.75000	\$ 10.75000	\$ 17.00000	\$ 18.00000	
11	Total Revenue Adjustment (L12+L13+L14+L15+L16)	\$ 17	\$ 16	\$ 15	\$ 114	\$ 161
12	USP Adjustment (L5 * L6)	\$ 2	\$ 2	\$ -	\$ -	\$ 4
13	EEC Adjustment (L5 * L7)	\$ 0	\$ 0	\$ 0	\$ 2	\$ 2
14	GSR Adjustment (L5 * L8)	\$ 9	\$ 9	\$ 8	\$ 83	\$ 109
15	Distribution Adjustment (L5 * L9)	\$ 4	\$ 4	\$ 4	\$ 25	\$ 38
16	Customer Charge Adjustment (L3*12*L10)	\$ 1	\$ 1	\$ 3	\$ 4	\$ 9
17	Total Margin Adjustment (L15 less GRT+L16)	\$ 5	\$ 5	\$ 7	\$ 27	\$ 44

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for Usage per Customer
Rate R General, Rate R Heating, Rate GS-1 Com-Gen, Rate GS-4 Com-Gen
GSR-1 subgroups only

Line #		[1] Rate R General	[2] Rate R Heating	[3] Rate GS-1 Com-Gen	[4] Rate GS-4 Com-Gen	[5] Total
1	Heating Sensitivity/HDD/cust (kWh/DD/cust)	1.7072	0.5686	3.0959	0.4449	
2	DD Variance (to 10 Year normal)	(193)	(193)	(193)	(193)	
3	kWh/customer adjustment (L1 * L2)	(329)	(110)	(598)	(86)	
4	Customers FY25 (fully adjusted)	44,144	10,521	4,827	1,741	
5	Normalizing Adj (L3 * L4)/1000 -MWh	(14,545)	(1,155)	(2,884)	(149)	(18,733)
6	Total Revenue unit rate (L7+L8+L9+L10+L11)-\$/kWh	\$ 0.19163	\$ 0.19163	\$ 0.17225	\$ 0.14577	
7	USP unit rate-\$/kWh	\$ 0.02222	\$ 0.02222	\$ -	\$ -	
8	EEC-Class 1 & Class 2 unit rate-\$/kWh	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
9	GSR-1 unit rate-\$/kWh	\$ 0.11470	\$ 0.11470	\$ 0.11005	\$ 0.11005	
10	Distribution unit rate (margin plus GRT)-\$/kWh	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
11	Revenue Adjustment (L5 * L6)	\$ (2,787)	\$ (221)	\$ (497)	\$ (22)	\$ (3,527)
12	USP Adjustment (L5 * L7)	\$ (323)	\$ (26)	\$ -	\$ -	\$ (349)
13	EEC Adjustment (L5 * L8)	\$ (26)	\$ (2)	\$ (7)	\$ (0)	\$ (35)
14	GSR Adjustment (L5 * L9)	\$ (1,668)	\$ (132)	\$ (317)	\$ (16)	\$ (2,135)
15	Distribution Adjustment (L5 * L10)	\$ (769)	\$ (61)	\$ (173)	\$ (5)	\$ (1,008)
16	Margin Adjustment (L15 less GRT)	\$ (724)	\$ (57)	\$ (162)	\$ (5)	\$ (949)
17	Cooling Sensitivity/CDD/cust (kWh/DD/cust)	0.5217	0.4887	1.3464	0.1393	
18	DD Variance (to 10 Year normal)	71	71	71	71	
19	kWh/customer adjustment (L17 * L18)	37	35	96	10	
20	Customers FY25 (fully adjusted)	44,144	10,521	4,827	1,741	
21	Normalizing Adj (L19 * L20)/1000 -MWh	1,635	365	461	17	2,479
22	Total Revenue unit rate (L23+L24+L25+L26)-\$/kWh	\$ 0.19163	\$ 0.19163	\$ 0.17225	\$ 0.14577	
23	USP unit rate-\$/kWh	\$ 0.02222	\$ 0.02222	\$ -	\$ -	
24	EEC-Class 1 & Class 2 unit rate-\$/kWh	\$ 0.00181	\$ 0.00181	\$ 0.00233	\$ 0.00233	
25	GSR-1 unit rate-\$/kWh	\$ 0.11470	\$ 0.11470	\$ 0.11005	\$ 0.11005	
26	Distribution unit rate (margin plus GRT)-\$/kWh	\$ 0.05290	\$ 0.05290	\$ 0.05987	\$ 0.03339	
27	Revenue Adjustment (L21 * L22)	\$ 313	\$ 70	\$ 79	\$ 3	\$ 465
28	USP Adjustment (L21 * L23)	\$ 36	\$ 8	\$ -	\$ -	\$ 44
29	EEC Adjustment (L21 * L24)	\$ 3	\$ 1	\$ 1	\$ 0	\$ 5
30	GSR Adjustment (L21 * L25)	\$ 188	\$ 42	\$ 51	\$ 2	\$ 282
31	Distribution Adjustment (L21 * L26)	\$ 86	\$ 19	\$ 28	\$ 1	\$ 134
32	Margin Adjustment (L31 less GRT)	\$ 81	\$ 18	\$ 26	\$ 1	\$ 126
33	Total Adjustment Summary-FY25					
34	Normalizing Adj (MWh) (L5+L21)	(12,910)	(790)	(2,423)	(132)	(16,254)
35	Total Revenue Adjustment (L11+L27)	\$ (2,474)	\$ (151)	\$ (417)	\$ (19)	\$ (3,062)
36	Total USP Adjustment (L12+L28)	\$ (287)	\$ (18)	\$ -	\$ -	\$ (304)
37	Total EEC Adjustment (L13+L29)	\$ (23)	\$ (1)	\$ (6)	\$ (0)	\$ (31)
38	Total GSR Adjustment(L14+L30)	\$ (1,481)	\$ (91)	\$ (267)	\$ (15)	\$ (1,852)
39	Total Distribution Adjustment(L15+L31)	\$ (683)	\$ (42)	\$ (145)	\$ (4)	\$ (874)
40	Total Margin Adjustment (L16+L32)	\$ (643)	\$ (39)	\$ (136)	\$ (4)	\$ (823)

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for GSR-1

	OCT 2024	NOV 2024	DEC 2024	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025	JUN 2025	JUL 2025	AUG 2025	SEP 2025	TOTAL
Residential													
Actual GSR-1 Rate FY 25-\$/kWh	\$0.11064	\$0.11064	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.11470	\$0.11470	\$0.11470	\$0.11470	
HTY 2025 GSR-1 Sep 1, 2025 Rate-\$/kWh	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	\$0.11470	
GSR-1 Rate Variance	\$0.00406	\$0.00406	\$0.00833	\$0.00833	\$0.00833	\$0.00833	\$0.00833	\$0.00833	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
Total GSR-1 Volumes-MWh	36,795	40,825	62,289	67,970	51,467	48,589	35,149	34,220	43,561	56,088	39,374	37,464	553,793
GSR-1 Revenue Adjustment	\$149	\$166	\$519	\$566	\$429	\$405	\$293	\$285	\$0	\$0	\$0	\$0	\$2,812
Non-Residential													
Actual GSR-1 Rate FY 25-\$/kWh	\$0.11064	\$0.11064	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.10637	\$0.11005	\$0.11005	\$0.11005	\$0.11005	
HTY 2025 GSR-1 Sep 1, 2025 Rate-\$/kWh	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	\$0.11005	
GSR-1 Rate Variance	(\$0.00059)	(\$0.00059)	\$0.00368	\$0.00368	\$0.00368	\$0.00368	\$0.00368	\$0.00368	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
Total GSR-1 Volumes-MWh	8,116	7,567	18,559	20,920	19,112	(2,401)	7,448	7,842	9,143	11,426	8,196	9,016	124,944
GSR-1 Revenue Adjustment	(\$5)	(\$4)	\$68	\$77	\$70	(\$9)	\$27	\$29	\$0	\$0	\$0	\$0	\$254
Total													
Total GSR-1 Volumes-MWh	44,911	48,392	80,848	88,890	70,579	46,188	42,598	42,063	52,704	67,514	47,570	46,480	678,738
GSR-1 Revenue Adjustment	\$145	\$161	\$587	\$643	\$499	\$396	\$320	\$314	\$0	\$0	\$0	\$0	\$3,065

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for USP

	OCT 2024	NOV 2024	DEC 2024	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025	JUN 2025	JUL 2025	AUG 2025	SEP 2025	TOTAL
Historic Period FY25 USP Rate -\$/kWh	\$0.02198	\$0.02198	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02121	\$0.02222	\$0.02222	\$0.02222	\$0.02222	
HTY 2025 USP Sep 1, 2025 Rate-\$/kWh	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	\$0.02222	
USP Rate Variance-\$/kWh	\$0.00024	\$0.00024	\$0.00101	\$0.00101	\$0.00101	\$0.00101	\$0.00101	\$0.00101	\$0.00000	\$0.00000	\$0.00000	\$0.00000	
Total Rate R Volumes-MWh	37,118	41,209	62,858	68,604	51,931	49,039	35,447	34,497	43,913	56,530	39,663	37,718	558,526
Total Rate R excl CAP Volumes-MWh	33,113	36,764	56,075	61,202	46,326	43,747	31,620	30,770	39,168	50,420	35,375	33,639	498,219
USP Rate Revenue Variance	\$8	\$9	\$57	\$62	\$47	\$44	\$32	\$31	\$0	\$0	\$0	\$0	\$289

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for STAS

	Actual Revenue Excluding STAS	Customer Adj	UPC Adj	GSR-1 Adj	USP Adj	EEC Adj	Revised Revenue Excluding STAS	STAS Revenue @ Sep 20 Rate 0.02%	STAS Revenue @ FY 25	STAS Adjustment
Residential	\$ 109,244	\$ 32	\$ (2,625)	\$ 2,811	\$ 289	\$ 156	\$ 109,909	\$ 22	\$ 7	\$ 14
Commercial & Industrial	\$ 35,727	\$ 129	\$ (437)	\$ 251	\$ -	\$ 80	\$ 35,750	\$ 7	\$ 3	\$ 5
Public Streets & Highway Lighting	\$ 1,095	\$ -	\$ -	\$ 3	\$ -	\$ 4	\$ 1,102	\$ 0	\$ 0	\$ 0
Other Sales to Public Authorities	\$ 21	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 22	\$ 0	\$ -	\$ 0
Sales for Resale	\$ 20	\$ -	\$ -	\$ 0	\$ -	\$ 0	\$ 20	\$ 0	\$ 0	\$ 0
Total	\$ 146,107	\$ 161	\$ (3,062)	\$ 3,065	\$ 289	\$ 242	\$ 146,803	\$ 29	\$ 10	\$ 19

UGI Utilities, Inc.- Electric Division
Historic Period- 12 Months Ended September 30, 2025
(\$ in Thousands)

Adjustment for EEC

	OCT 2024	NOV 2024	DEC 2024	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025	JUN 2025	JUL 2025	AUG 2025	SEP 2025	TOTAL
Historic EEC-Class 1 Actual Rates FY 25-\$/kWh	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00151	\$0.00181	
Historic Year 2022 EEC-Class 1 Rate Effective Sept 1, 2025-\$/kWh	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	\$0.00181	
EEC-Class 1 Rate Variance-\$/kWh	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00030	\$0.00000	
Total EEC-Class 1 Volumes	37,248	41,335	63,020	68,776	52,058	49,166	35,549	34,601	44,044	56,679	39,772	37,848	560,094
Total EEC-Class 1 Revenue Adjustment	\$11	\$12	\$19	\$21	\$16	\$15	\$11	\$10	\$13	\$17	\$12	\$0	\$157
Historic EEC-Class 2 Actual Rates FY 25-\$/kWh	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00122	\$0.00233	
Historic Year 2022 EEC-Class 2 Rate Effective Sept 1, 2025-\$/kWh	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	\$0.00233	
EEC-Class 2 Rate Variance-\$/kWh	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00111	\$0.00000	
Total EEC-Class 2 Volumes	11,745	11,110	14,763	15,687	12,073	12,244	10,918	11,400	13,311	15,592	11,640	12,883	153,366
Total EEC-Class 2 Revenue Adjustment	\$13	\$12	\$16	\$17	\$13	\$14	\$12	\$13	\$15	\$17	\$13	\$0	\$156
Historic EEC-Class 3 Actual Rates FY 25-\$/kWh	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00042	\$0.00014	
Historic Year 2022 EEC-Class 3 Rate Effective Sept 1, 2025-\$/kWh	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	\$0.00014	
EEC-Class 3 Rate Variance-\$/kWh	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	(\$0.00028)	
Total EEC-Class 3 Volumes	19,846	22,907	19,585	23,771	26,772	19,069	23,375	20,704	22,009	24,649	30,302	21,753	274,741
Total EEC-Class 3 Revenue Adjustment	(\$6)	(\$6)	(\$5)	(\$7)	(\$7)	(\$5)	(\$7)	(\$6)	(\$6)	(\$7)	(\$8)	\$0	(\$71)
Total EEC Revenue Adjustment	\$19	\$18	\$30	\$31	\$22	\$23	\$16	\$17	\$22	\$27	\$16	\$0	\$242

UGI ELECTRIC STATEMENT NO. 11

CYNTHIA S. FANG

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Docket No. R-2025-3059430

UGI Utilities, Inc. – Electric Division

Statement No. 11

Direct Testimony

of

**Cynthia S. Fang, Director
Atrium Economics, LLC**

**Topics Addressed: Cost of Service
 Revenue Allocation
 Rate Design**

Dated: March 27, 2026

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1 **I. INTRODUCTION**

2 **Q. Please state your name, affiliation, and business address.**

3 A. My name is Cynthia (“Cyndee”) S. Fang, and I am employed by Atrium Economics, LLC
4 (“Atrium”) as a Director. My business address is 10 Hospital Center Commons, Suite
5 400, Hilton Head Island, SC 29926.

6

7 **Q. Please describe your professional background and education.**

8 A. I have over 20 years of experience in the energy industry focusing on regulatory, cost
9 recovery and rate design issues. I joined Atrium Economics in December 2024. Before
10 joining Atrium Economics, I was Vice President of Regulatory at NorthWestern Energy.
11 In this role I was responsible for the development and execution of the Company’s
12 regulatory strategy in Montana, South Dakota, and Nebraska. I joined NorthWestern
13 Energy in 2021 as the Director of Regulatory Affairs in Montana. Prior to NorthWestern
14 Energy, I held various leadership roles at San Diego Gas & Electric, which included
15 overseeing the Company’s electric rate strategy as well as electric forecasting, electric
16 load analysis and research, and origination teams. I began my career in the energy industry
17 as a Public Utilities Rates Analyst at the Minnesota Department of Commerce, Energy
18 Division. I received my Bachelor of Science in Political Economics of Natural Resources
19 from the University of California at Berkley and completed all coursework required for a
20 Ph.D. in Applied Economics at the University of Minnesota, focusing on environmental
21 economics. A copy of my resume is provided as UGI Electric Exhibit CSF-1.

1 **Q. What is the purpose of your testimony in this proceeding?**

2 A. The purpose of my testimony is to present and support UGI Utilities, Inc. – Electric
3 Division’s (“UGI Electric” or the “Company”) allocated costs of service study
4 (“ACOSS”) for electric distribution services and to explain how the results of that study
5 inform the allocation of the Company’s proposed revenue requirement among customer
6 classes and the Company’s rate design proposals in this proceeding. The ACOSS presents
7 the updated cost of providing electric distribution service to customers and allocates the
8 Company’s cost of service associated with Pennsylvania Public Utility Commission
9 (“Commission”) jurisdictional operations to the Company’s retail customer classes. My
10 testimony describes the analytical framework used to develop the ACOSS, explains the
11 methodologies used to functionalize, classify, and allocate distribution costs to customer
12 classes, and presents the study results as a cost-based reference for evaluating the Company’s
13 proposed revenue apportionment and distribution rate design.

14

15 **Q. Please summarize the contents of your testimony.**

16 A. My testimony consists of this introduction section and the following five additional
17 sections:

- 18 • **Section II** explains the ratemaking guiding principles and discusses how those
19 principles are applied in the development of the Company’s ACOSS, revenue
20 apportionment, and rate design.

- 1 • **Section III** provides an overview of the ACOSS for electric distribution services,
2 including the analytical process used to functionalize, classify, and allocate
3 distribution plant, expenses, and revenue requirements to customer classes.
- 4 • **Section IV** describes the supporting data sources and allocation factors used in the
5 Company’s ACOSS for electric distribution services and presents the results as a
6 cost-based reference for evaluating the Company’s proposed revenue
7 apportionment and distribution rate design.
- 8 • **Section V** discusses how the results of the ACOSS inform the allocation of the
9 Company’s proposed electric distribution revenue requirement among customer
10 classes and describes the Company’s proposed moderated approach to revenue
11 apportionment.
- 12 • **Section VI** presents the Company’s rate design proposal for distribution rates to
13 continue to move to more cost-based rate design by increasing customer costs
14 recovered through the customer charge and simplification of distribution rate. This
15 includes:
- 16 ○ For all customers, a proposal to increase the system charge to be more cost-
17 based;
- 18 ○ For non-residential customers on Schedules General Service, 5 kW
19 minimum, (“GS-4”) and large Power Service (“LP”) with demand charges,
20 a proposal to move demand charges to be more cost based; and

1 ○ For some non-residential customers on Schedules Flood Control Power
2 Service (“FCP”), GS-4, and LP, a proposal to simplify rates with a
3 transition towards the elimination of the current block structure of demand
4 (\$/kW) and distribution (\$/kWh) charges.

5
6 **Q. Ms. Fang, are you sponsoring any exhibits in this proceeding?**

7 A. Yes. I am sponsoring Book VIII, labeled as UGI Electric Exhibit D – Allocated Cost of
8 Service Study (Fully Projected) (“Exhibit D”). Exhibit D contains three sections for which
9 an index is provided on page 2 of Exhibit D. I also am sponsoring portions of Book I,
10 Section 53.51 et seq. of the Commission’s Regulations, Part IV-Rate Structure and Cost
11 Allocation.

12
13 **Q. Would you briefly describe the contents of Exhibit D?**

14 A. Exhibit D provides the information required under 52 Pa. Code § 53.53(a)(3) by providing
15 a cost of service study that fully distributes the Pennsylvania jurisdictional costs of
16 providing retail distribution service to the various rate classes at both present and proposed
17 rates. The studies contained in UGI Electric Exhibit D are based on costs and operating
18 conditions for the fully projected future test year (“FPFTY”) ending September 30, 2027.

19 Exhibit D consists of three sections detailing the process of developing the ACOSS
20 for electric distribution services. The first section includes an introduction, the general
21 purpose and process of the cost-of-service study, as well as an overview of the excel-based
22 fully functional ACOSS model presented in this proceeding. The second section presents

1 the ACOSS development process specific to the Company’s electric distribution services,
2 including the Functionalization, Classification, and Allocation of costs. The Allocation
3 section specifically describes the development of Internal and External allocation factors
4 and processes used in the ACOSS for electric distribution services. The last section
5 depicts the results of the cost-of-service studies, including revenue requirement
6 apportionment, comparison of cost of service with revenues under present and proposed
7 rates, and development of rate of return by customer class under present and proposed
8 rates.

9

10 **Q. Please describe the schedules included in Exhibit D.**

11 A. The following is the list of Schedules included in Exhibit D:

12 • **Schedule 1 - Account Balances and Allocation Methods** detail the various
13 account inputs and the choices made in the functionalization, classification, and
14 allocation processes.

15 • **Schedule 2 - Functional Split and Minimum System Study** presents the
16 functionalization of distribution plant into primary and secondary components and
17 the classification of those costs into customer and demand-related portions based
18 on the results of the minimum system study.

19 • **Schedule 3 - External Allocation Factors** depict the allocation factors utilized
20 within the model developed based on the special studies. The reports outline the

1 methods and factors used to allocate electric distribution costs among different
2 customer classes.

3 • **Schedule 4 - Internal Allocation Factors** depict the allocation factors calculated
4 within the ACOSS model based on the relative cost ratios of allocated costs, and
5 present the allocation factor basis in dollars and the resulting allocation factors in
6 percentage terms.

7 • **Schedule 5 - Comparison of Cost of Service and Rate of Return Under Present
8 and Proposed Rates** compares each customer class's cost of service with revenues
9 under present and proposed rates, illustrating how the proposed revenue
10 apportionment moves classes closer to cost-based levels.

11 • **Schedule 6 - Summary of Cost of Service and Rate of Return Under Present
12 and Proposed Rates** summarizes, by customer class, the rate base, revenues,
13 expenses, and resulting rates of return under present and proposed rates, including
14 key cost-of-service metrics such as relative rates of return and parity ratios, and
15 the results of the moderation scenario discussed under revenue apportionment.

16 • **Schedule 7 - Cost of Service Allocation Study Detail by Account** provides a
17 comprehensive breakdown of cost allocation and resulting revenue requirements
18 distribution under the required equal rate of return for all customer classes. This
19 breakdown is categorized by the FERC Account and further segmented by rate
20 class.

- 1 • **Schedule 8 - Functionalized and Classified Rate Base and Revenue**
2 **Requirement, and Unit Costs by Customer Class** summarizes the results of
3 functionalized and classified revenue requirements under required equal rate of
4 return for all customer classes. The report identifies and segregates the costs
5 associated with each function further dividing into categories that reflect how costs
6 are incurred and allocated (classified).

7
8 **II. GUIDING PRINCIPLES**

9 **Q. What guiding principles are considered within the rate making process?**

10 A. There are several principles that guide the ratemaking process that have found broad
11 acceptance in the recognized literature on utility ratemaking and regulatory policy. These
12 principles help inform the allocation of revenues (i.e., assignment of cost responsibility
13 for each rate class) and the rate design for the recovery of costs within each rate class.

14 They include:

- 15 • **Fairness:** Rates should be fair to all customer classes, avoiding undue
16 discrimination.
17 • **Efficiency:** Rates should promote the efficient use of resources and encourage
18 conservation while avoiding undue restriction of economic use.
19 • **Simplicity and Understandability:** Rates should be simple and understandable
20 for customers.
21 • **Stability:** Rates should provide bill stability for customers and revenue stability
22 for the utility.

- 1 • **Reflective of Costs:** Rates should reflect the cost of providing service to different
2 customer classes.
- 3 • **Revenue Sufficiency:** Rates should generate enough revenue to cover the utility’s
4 costs, including a fair return on investment.
5

6 These principles draw heavily upon the “Attributes of a Sound Rate Structure”
7 developed by James Bonbright in *Principles of Public Utility Rates*.¹ Each of these
8 principles plays an important role evaluating UGI Electric’s proposals for the
9 apportionment of revenues to customer classes and rate design for the recovery of costs of
10 utility services. In addition, these principles are consistent with Pennsylvania practice and
11 precedent, including the *Lloyd* decision,² where the Commonwealth Court indicated that
12 cost of service is the “polestar” of ratemaking but that other factors, including those listed
13 above, can be considered as well.
14

15 **Q. How did you apply these principles in development of the Company’s ACOSS?**

16 A. The development of an ACOSS that reflects cost causation is a critical starting point. The
17 ACOSS based on cost causation is an important reference point to provide transparency
18 which helps avoid undue discrimination among customer classes. An ACOSS that reflects
19 cost causation recognizes that customers and customer classes should be assigned
20 responsibility for costs based on how and why those costs are incurred in providing
21 service. Some costs are driven by the number of customers connected to the system, others

¹ James Bonbright et al. *Principles of Public Utility Rates*, Public Utilities Reports, Inc. 2nd Edition, 1988.

² *Lloyd v. Pa. P.U.C.*, 904 A.2d 1010 (Pa. Cmwlth. 2006), *appeal denied*, 591 Pa. 676, 916 A.2d 1104 (2007).

1 by the capacity required to meet peak demand, and others by energy usage. In the context
2 of electric distribution service, different customer classes place different demands on the
3 various parts of the system.

4

5 **Q. How does the Company apply these principles when apportioning the identified**
6 **revenue increase across customer classes?**

7 A. The allocation of customer costs is a controversial issue. Allocation of costs based on cost
8 causation principles helps ensure that costs are assigned in a manner that reflects these
9 differences. The ACOSS evaluates whether cost-based allocations will generate sufficient
10 revenue to cover the costs of serving each customer class, including a fair return on capital
11 **(Revenue Sufficiency)**. When a class earns below the system average rate of return, it
12 does not fully cover its costs; when it earns above the average, it subsidizes other classes.
13 Achieving parity of rates of return across classes results in assignment of cost
14 responsibility that reflects the cost of service for each class **(Reflective of Costs)** resulting
15 in reduction in inter-class subsidies **(Fairness)**. At times, moderation may be applied when
16 translating cost-of-service results into class revenue responsibilities. This approach allows
17 movement towards more cost-based revenue relationships while recognizing important
18 ratemaking considerations such as rate **Stability**, gradualism, and the management of
19 interclass revenue relationships.

1 **Q. How are the principles described above translated into the design of rates?**

2 A. Rate design that reflects cost causation (**Reflective of Costs**)—using the ACOSS as a
3 reference for customer, demand, and energy charges—enhances **Efficiency and Fairness**
4 and provides a critical reference point for the Company’s proposals. Rates that accurately
5 reflect the utility’s cost of providing service encourages responsible resource use and
6 conservation, while minimizing cross-subsidies within customer classes. Similar to
7 revenue apportionment, moderation may be needed based on the comparison to current
8 rates. A transition path or gradualism that allows movement towards more cost-based
9 rates may be needed to provide customers **Stability and Understandability**.

10
11 **III. OVERVIEW OF ALLOCATED COST OF SERVICE STUDY**

12 **Q. What are the general purposes and use of the ACOSS in this base rate proceeding?**

13 A. An ACOSS serves two purposes:

14 (1) Providing the cost-basis for the allocation of the jurisdictional cost of electric
15 distribution service that makes up the total base revenue requirement to the various
16 customer classes (e.g., residential, commercial and industrial) based on their use of the
17 Company’s system; and

18 (2) Providing the cost-based reference for the development of the Company’s rate design
19 proposals.

20 An ACOSS helps guide the allocation of distribution costs to customer classes by
21 estimating the cost of serving each class and the cost-based references for customer
22 charges and demand charges for rate design.

1 **Q. Please describe the general approach used to develop the ACOSS?**

2 A. The Company's ACOSS was developed using a standard, widely accepted cost-based
3 ratemaking framework that consists of functionalization, classification, and allocation.
4 This three-step approach is commonly used in electric utility cost of service studies and is
5 consistent with guidance provided in the National Association of Regulatory Utility
6 Commissioners ("NARUC") Electric Utility Cost Allocation Manual.³ The process begins
7 by organizing costs according to the functions they support within the electric distribution
8 system. Those functionalized costs are then classified based on the factors that drive the
9 incurrence of the costs. Finally, classified costs are allocated to customer classes using
10 allocation factors that reflect cost causation and customer usage characteristics. This
11 structured approach provides transparency into how costs flow through the study and
12 ensures consistency between the ACOSS and the Company's underlying revenue
13 requirement.

14
15 **Q. What are the steps to performing an ACOSS?**

16 A. The ACOSS process consists of three primary steps: cost functionalization, cost
17 classification, and cost allocation. Cost functionalization assigns plant and expenses to the
18 utility functions they support. Cost classification further separates those functionalized
19 costs based on the primary factors that cause them to be incurred. Cost allocation then

³ National Association of Regulatory Utility Commissioners. (January 1992). Electric Utility Cost Allocation Manual. Washington, D.C. Available for download at: <https://pubs.naruc.org/pub/53A3986F-2354-D714-51BD-23412BCFEDFD>, Last Accessed March 15, 2026

1 assigns the classified costs to customer classes using appropriate allocation factors. Each
2 step builds upon the prior step, and all three are necessary to ensure that costs are assigned
3 in a manner consistent with cost causation principles.

4

5 **Q. Please describe cost functionalization.**

6 A. Cost functionalization is the process of assigning plant and expenses to specific utility
7 functions based on the role those assets and costs play in providing service. For electric
8 distribution service, these functions include substations, primary distribution, secondary
9 distribution, transformation, onsite and metering, and customer accounts and services.
10 Functionalization ensures that costs are grouped according to the part of the system they
11 support. This is important because different customer classes interact with different parts
12 of the system in different ways. Functionalization also provides the foundation for
13 subsequent classification and allocation steps. Indirect costs that support multiple
14 functions, such as general plant and administrative and general expenses, are allocated to
15 functions using internal allocation factors that reasonably reflect how those costs are
16 incurred across the system.

17

18 **Q. Please describe cost classification.**

19 A. The second step, cost classification, further separates the functionalized plant and
20 expenses according to the primary factors that determine the amount of costs incurred.
21 These factors are: (1) the number of customers, (2) the need to meet the peak demand
22 requirements that customers place on the system, and (3) the amount of electricity

1 consumed by customers. These classification categories have been identified for purposes
2 of the ACOSS as Customer Costs, Demand Costs, and Energy Costs, respectively.

3

4 **Q. Please describe the types of costs in the Customer, Demand, and Energy Costs**
5 **categories.**

6 A. Customer Costs are costs that are driven primarily by the number of customers served and
7 do not vary with usage or demand. Examples include meters, service drops, billing,
8 customer service, and account maintenance.

9 Demand Costs are driven by the capacity required to serve customer load,
10 particularly during peak periods. These costs are associated with facilities such as
11 substations, transformers, and distribution lines that are sized to meet peak demand
12 measured in kilowatts (“kW”).

13 Energy Costs vary with energy consumption and are driven by the amount of
14 electricity delivered to customers measured in kilowatt hours (“kWh”).

15

16 **Q. What is required to appropriately classify costs as Customer, Demand, and Energy?**

17 A. Proper classification requires an understanding of how the utility system is designed,
18 operated, and used by customers. This includes reviewing engineering characteristics of
19 assets, system planning practices, historical data, and available studies that identify cost
20 drivers. Where facilities serve both customer-connection and load-carrying functions,
21 additional analyses—such as minimum-size or minimum-system studies—are used to
22 distinguish customer and demand components.

1 **Q. Are there generally accepted methods for preparing classification studies for electric**
2 **utility distribution assets?**

3 A. Yes. The generally accepted methods are set forth in the NARUC Electric Utility Cost
4 Allocation Manual (“NARUC Manual”). The NARUC Manual specifically states⁴ that an
5 electric utility’s distribution-related facilities are, from a design and operational basis,
6 sized to meet the maximum kW load (demand) requirements of customers. Moreover, the
7 NARUC Manual also states⁵ that all distribution costs should be classified as either
8 customer- or demand-related, or a combination of these two factors. To develop a
9 classification of these facilities between a combination of customer- and demand-related
10 costs requires an analysis of relative unit costs for different size facilities (i.e., a minimum
11 system study or zero-intercept study). These studies recognize that distribution assets have
12 a dual purpose – (1) to meet peak demands and (2) to connect customers to the system –
13 and estimate the portion of the utility’s investment that is affected by both purposes.

14

15 **Q. Please describe the cost allocation portion of the ACOSS.**

16 A. The final step is the allocation of each functionalized and classified cost element to the
17 individual customer or rate class. Customers are generally divided into customer classes
18 based on the type and character of services they require. Costs typically are allocated to
19 these customer classes based on factors related to the number of customers, the amount of
20 capacity demanded by customers, and the energy usage of customers. For example, much

⁴ Ibid., 96–98.

⁵ Ibid., 89

1 of the plant and equipment cost depends upon the customers' peak demand. These costs
2 are allocated based on the coincident-peak or non-coincident peak demands of the rate
3 class, depending on which characteristic more closely affects cost causation. Other
4 portions of the cost depend upon the number of customers on the system, and these costs
5 are allocated on a customer, or weighted-customer, basis. In addition, certain variable
6 production costs, as well as fuel and purchased power costs, primarily depend upon the
7 amount of energy a customer consumes. These costs are allocated based on the amount of
8 energy consumed, adjusted for losses of energy that occur in the transmission and
9 distribution process.

10

11 **Q. How does the analysis establish the cost and utility service relationships?**

12 A. Establishing cost and service relationships requires analyzing the utility's system design,
13 operating characteristics, accounting records, and customer usage patterns. This analysis
14 identifies how different customer classes contribute to the need for system assets and
15 services. Understanding these relationships is critical to selecting appropriate
16 classification and allocation methods.

1 **Q. Please explain the term “direct assignment”?**

2 A. Direct assignment refers to assigning costs directly to a specific customer or customer
3 class when those costs are incurred exclusively to serve that customer or class. Direct
4 assignment best reflects cost causation and is used whenever sufficient data are available.

5 Maximizing the use of direct assignment reduces reliance on more generalized
6 allocation methods.

7

8 **Q. Please explain the considerations in determining the cost allocation methodologies**
9 **used to perform an ACOSS.**

10 A. In determining cost allocation methodologies, several considerations are evaluated,
11 including the relationship between costs and cost drivers, consistency with established
12 regulatory practice, availability and quality of data, and the reasonableness and stability
13 of results. The objective is to apply allocation methods that are theoretically sound,
14 practically implementable, and reflective of how costs are incurred in providing service.

15

16 **Q. How do state regulatory policies affect a utility’s ACOSS?**

17 A. State regulatory policies and requirements prescribe whether there are any historical
18 precedents used to establish utility rates in the state. Specifically, state regulations and
19 past precedents set forth methodological preferences or guidelines for performing cost
20 studies or designing rates which can influence the proposed cost allocation method utilized
21 by the utility.

1 **Q. How does the availability of data influence an ACOSS?**

2 A. The structure of the utility's books and records can influence the cost study framework.
3 This structure relates to attributes such as the level of detail, segregation of data by
4 operating unit or geographic region, and the types of load data available. The objective is
5 to utilize the best available information to produce results that are both reasonable and
6 consistent with cost-causation principles while remaining practical to implement within
7 the utility's existing accounting and data systems.

8 The availability of detailed operational and engineering data can also influence the
9 development of allocation factors used in the study. When detailed data is available, it can
10 support more refined allocation factors that better reflect the cost drivers associated with
11 providing electric distribution service. Conversely, where certain data is not directly
12 available, reasonable estimates or proxy measures may be used to approximate cost
13 causation relationships. Similarly, when accounting records do not separately identify
14 costs by function or customer class, those costs must be allocated using secondary
15 allocation factors that reflect the most reasonable relationship between the costs incurred
16 and the services provided.

17

18 **Q. Did the Company make any modifications in the preparation of this case that would**
19 **impact ACOSS?**

20 A. Yes, as part of its case, and presented by Company witness Sherry A. Epler in UGI
21 Electric Statement No. 10, the Company utilized a 10-year historical average to develop

1 the weather data underlying the use per customer calculation. The ten-year historical
2 average is based on the year ended December 31, 2024. The Company proposes that this
3 10-year approach be updated in conjunction with each future rate case filing. This would
4 replace the Company's current practice, wherein it used 15 years of weather data updated
5 every five years, with the last update – the one that supported the rates established in
6 Docket R-2022-3037368 – based on data ending on December 31, 2019. The change in
7 forecast methodology impacts ACOSS and rate design.

8

9 **IV. UGI ELECTRIC'S ALLOCATED COST OF SERVICE STUDY**

10 **Q. Please describe UGI Electric's derivation of its total revenue requirement.**

11 A. The Company's base rates are proposed to recover the base revenue requirement exclusive
12 of the costs recovered in trackers and riders and associated taxes. As explained by
13 Company witness Tracy A. Hazenstab (UGI Electric Statement No. 2), the Company's
14 forecasted revenue requirement for the 12-month period ending September 30, 2027 is
15 \$162.7 million. In the setting of retail base rates, a base level of miscellaneous other
16 revenue is treated as a credit. The base retail rates proposed in this proceeding are designed
17 to recover an amount net of these credits; an amount of \$161.4 million. The proposed
18 increase to base rate revenues is \$17.3 million, which represents an approximate 25.9%
19 increase in margin revenues and 11.9% increase in total revenues.

1 **Q. What is the source of the cost data analyzed in UGI Electric’s ACOSS?**

2 A. All cost-of-service data was extracted from the Company’s total cost of service (*i.e.*, total
3 revenue requirement) contained in this general rate case filing for the FPFTY ending
4 September 30, 2027. Where more detailed information was required to perform various
5 analyses related to certain plant and expense elements, the data were derived from the
6 historical books and records of the Company and information provided by Company
7 personnel.

8
9 **Q. How are UGI Electric’s rate classes structured for the purposes of conducting its**
10 **ACOSS?**

11 A. For UGI Electric’s ACOSS, all tariffed rate classes are included in the ACOSS and are
12 mapped according to the following:

<u>ACOSS Class</u>	<u>Rate Schedule</u>
Residential	R
General Service	GS-1 and GS-5
General Service-4	GS-4
Flood Control Power	FCP
Large Power	LP
Lighting	OL, SL, SOL, SSL, MHOL, MHSL, and LED-OL

13

14 In addition, the Company maintains tariff Rate Schedule HTP (High Tension Power).
15 Currently, the Company has no customers receiving service under Rate HTP and therefore,
16 there are no cost allocations to this rate schedule included in the ACOSS at this time.

1 **Q. Please explain how UGI Electric’s Pennsylvania jurisdictional costs are derived.**

2 A. This filing is based on the investment and expense incurred to provide distribution service
3 to UGI Electric’s Pennsylvania jurisdictional customers. Certain costs associated with
4 UGI Electric’s provision of transmission service under an open access transmission tariff
5 administered by PJM Interconnection, LLC (“PJM”) are recoverable from PJM through
6 an annual formulary revenue requirement filing approved by the FERC. The costs subject
7 to recovery through this FERC-jurisdictional rate mechanism were excluded to identify
8 UGI Electric’s Commission-jurisdictional distribution costs. Once UGI Electric
9 completed this assignment, I utilized UGI Electric’s cost of service specific to its
10 Pennsylvania-jurisdictional retail customers.

11

12 **Q. Please describe the Atrium Model used in conducting the ACOSS filed in this**
13 **proceeding.**

14 A. UGI Electric has selected the Atrium excel based model (“Atrium ACOSS Model”) to
15 conduct the ACOSS in this general base rate case. The Atrium ACOSS Model was
16 developed by Atrium on a proprietary basis for its consulting engagements and has been
17 used in multiple jurisdictions. This is the same Atrium ACOSS Model that UGI Electric
18 presented in UGI Electric’s last base rate case at Docket No. R-2022-3037368. Further,
19 there are no material differences, in output and format, between the Atrium ACOSS Model
20 used in this case and the past ACOSS models that UGI Electric presented in UGI Electric’s
21 2021 base rate case at Docket No. R-2021-3023618 and 2018 base rate case at Docket No.
22 R-2017-2640058.

1 **Q. Does the methodology utilized in the current cost allocation study and supporting**
2 **analyses match the method used in UGI Electric’s base rate cases at Dockets No. R-**
3 **2022-3037368, R-2021-3023618, and R-2017-2640058?**

4 A. Yes. The current ACOSS presented with this filing and proposed for use for decisions on
5 the apportionment of the class revenue increases and rate design reflects the same methods
6 utilized in UGI Electric’s last three base rate cases.

7
8 **Q. Did the Commission opine on the appropriateness of these ACOSS methods in these**
9 **base rate case proceedings?**

10 A. Yes. In the UGI Electric base rate case at Docket No. R-2017-2640058, the Commission
11 explicitly adopted UGI Electric’s ACOSS and rejected the alternative proposed by the
12 Office of Consumer Advocate (“OCA”), stating the following in the final order:

13 Additionally, as UGI and the OSBA both highlighted, the Commission has
14 affirmed the use of the “minimum system method” as the accepted approach
15 to classify and allocate distribution system costs in several proceedings. See
16 2012 PPL Order, *supra*; see also, *Pa. PUC v. PPL Electric Utilities Corp.*,
17 Docket No. R-2010-2161694, (Order entered December 21, 2010) (2010
18 PPL Order). Further, we find that UGI’s ACOSS is consistent with the
19 NARUC Manual and more accurately reflects cost-causation principles than
20 the ACOSS methodology proposed by the OCA.⁶
21

22 **A. FUNCTIONALIZATION AND CLASSIFICATION OF COSTS**

23 **Q. How did you functionalize and classify UGI Electric’s Pennsylvania-jurisdictional**
24 **distribution costs?**

⁶ *Pa. PUC v. UGI Utilities, Inc. – Electric Division*, Docket Nos. R-2017-2640058, *et al.*, p. 160 (Order entered Oct. 25, 2018).

1 A. The process started with each of the Company’s FERC accounts, which were assigned to
2 a specific function. In some instances, the costs in an account were first split into separate
3 functions or classifications if the costs in the account were incurred to perform more than
4 one function or the costs in an account varied significantly with respect to more than one
5 factor. For example, the accounts for distribution system poles, towers and fixtures, and
6 conductors and conduits were separated into two functions: primary distribution and
7 secondary distribution, based on voltage levels. In addition, these costs were further
8 separated into demand and customer classifications. The functionalization and
9 classification studies are provided in Section I of UGI Electric Exhibit D. It should be
10 noted that the functionalization and classification of distribution plant investments and
11 expenses are based on a detailed analysis of specific UGI Electric plant records and cost
12 data.

13

14 **Q. How were distribution costs classified between customer-related and demand-**
15 **related costs?**

16 A. Distribution costs recorded in FERC Accounts 364 (Poles, Towers, and Fixtures), 365
17 (Overhead Conductors and Devices), 367 (Underground Conductors and Devices), and
18 368 (Transformers) were classified between customer-related and demand-related
19 components using a Minimum System Study (“MSS”). The purpose of the MSS was to
20 identify the portion of distribution plant investment that is required to provide a basic
21 minimum level of service to each customer, regardless of load. That portion was classified
22 as customer-related. The remaining portion of plant investment, which varies with load
23 and system capacity requirements, was classified as demand-related. Exhibit D, Section

1 II.2 contains a more comprehensive explanation of the process, including primary and
2 secondary categorization of these assets.

3

4 **B. COST ALLOCATION**

5 **Q. Please describe the cost allocation process.**

6 A. To the extent possible, revenues, operating expenses, and rate base are directly assigned
7 by customer class consistent with the methodology described in Exhibit D, Section II.3.
8 Classified costs are allocated to customer classes using the External and Internal allocation
9 factors described in the study, which are supported by the Company’s billing determinants,
10 load research, plant records, and other special studies. External allocation factors rely on
11 observable customer characteristics such as customer counts, peak demand, meter studies,
12 and other supporting studies. Internal allocation factors are derived within the model based
13 on previously allocated plant, expense, and rate base balances to ensure internal
14 consistency in the assignment of common and overhead costs. This approach ensures that
15 the resulting class revenue requirements are grounded in measurable service
16 characteristics and supported by documented study inputs.

17

18 **Q. What allocation methods were utilized to allocate the costs of demand-related
19 distribution lines and substations?**

20 A. Non-coincident peak (“NCP”) demands were used to allocate demand-related distribution
21 line and substation costs because those facilities are planned, designed, and constructed to

1 meet the maximum load imposed on specific portions of the distribution system, rather
2 than the system-wide peak occurring at a single moment in time.

3 Distribution infrastructure—such as feeders, circuits, and substations—serves
4 localized groups of customers. Each segment of the distribution system must be capable
5 of accommodating the highest load experienced on that segment, regardless of whether
6 that load coincides with the Company’s overall system peak. A customer class may reach
7 its maximum demand during periods that are not coincident with the system peak, yet the
8 distribution facilities serving that class must still be sized to reliably meet that maximum
9 requirement. Accordingly, non-coincident peak demand more accurately reflects the
10 cost driver for distribution demand-related investment.

11 The use of NCP allocators for distribution demand costs is consistent with
12 engineering design standards and established cost-of-service principles, which allocate
13 costs based on the manner in which facilities are utilized and the capacity requirements
14 they must satisfy. By allocating distribution line and substation costs in proportion to each
15 class’s maximum load contribution, the study aligns revenue responsibility with the actual
16 drivers of distribution system investment.

17

18 **Q. What allocation methods were utilized in your studies for customer related costs?**

19 A. Because a significant portion of the distribution system costs are incurred simply to attach
20 a customer to the system and are the same regardless of the amount of energy that the
21 customer might consume, significant portions of the distribution system costs and

1 customer-specific costs are allocated to classes using allocators that are related to the
2 number of customers in the class. However, because there generally is a wide difference
3 between the customer classes in terms of the level of customer-related costs required per
4 customer, many of the allocations of customer-related costs are weighted to reflect the
5 relative differences in the average cost per customer of providing customer-related
6 facilities or services for particular rate classes. Thus, customer-related costs such as
7 meters, service lines, meter reading, billing, and customer service are allocated based on
8 the cost-weighted number of customers in each class. The customer-related allocation
9 factors and the relative-cost weights assigned to each class are shown in Exhibit D,
10 Schedule 3.

11

12 **Q. How are general and common plant costs allocated?**

13 A. Detailed plant account data for Common Plant were reviewed and categorized as Plant-,
14 Labor. Costs were then allocated using the internal allocation factor derived from the ratio
15 of allocated Operation and Maintenance (“O&M”) labor expenses by customer class.

16

17 **Q. Please describe the method used to allocate the reserve for depreciation and
18 depreciation expenses.**

19 A. Accumulated depreciation was allocated by account in the same manner as their associated
20 plant accounts. Depreciation expense was allocated to classes in proportion to total
21 allocated plant based on the composite plant allocation factor, except for distribution
22 depreciation expense, which also followed the allocation of the associated plant account.

1 **Q. How are distribution-related O&M expenses allocated?**

2 A. In general, these expenses were allocated using the same cost allocation methods applied
3 to the Company's corresponding plant accounts. Distribution-related O&M expenses are
4 incurred to operate and maintain specific plant-in-service accounts. In other words, the
5 existence of particular plant facilities necessitates the incurrence of expenses to operate
6 and maintain those facilities. As a result, the allocation basis used for a given plant account
7 is also used to allocate the related O&M expense account. Where an expense cannot be
8 directly associated with a specific plant account, the ACOSS uses an internal distribution
9 allocator to assign those costs.

10

11 **Q. How are customer account, service, and sales expenses allocated?**

12 A. Customer account, service, and sales expenses are generally allocated based on the
13 average number of customers in each respective class with the following exceptions: (a)
14 Uncollectible Accounts Expense (FERC Account No. 904) is allocated based on historical
15 write-off experience by customer class, thereby aligning the expense with the classes that
16 give rise to the bad debt risk; (b) Customer Records and Collection Expenses related to
17 the Universal Service Program (FERC Account No. 903), and (c) Miscellaneous Customer
18 Service & Informational Expenses related to Energy Efficiency & Conservation (FERC
19 Account No. 910). Expenses in FERC Account Nos. 903 and 910 are allocated using
20 account-specific allocation factors.

1 **Q. How are taxes other than income taxes allocated?**

2 A. In the ACOSS, taxes other than income taxes were allocated based on the specific cost
3 drivers associated with each tax category. Taxes were classified according to the
4 assessment basis established for each type of tax, such as payroll, property, or functional
5 relationship. Payroll-related taxes were allocated based on labor expenses, while property
6 taxes were allocated based on total plant investment.

7

8 **Q. How are income taxes allocated?**

9 A. Income taxes are allocated to each customer class using a rate base allocator. This reflects
10 the principle that, under a uniform rate of return framework, income taxes are proportional
11 to the return earned on rate base.

12

13 **C. ACOSS RESULTS**

14 **Q. Please summarize the results of the Company's ACOSS.**

15 A. Table 1 below presents a summary of the Company's ACOSS that can be reviewed in
16 Schedule 6 of Book IX, UGI Electric Exhibit D. These results provide cost-based
17 guidelines for evaluating class revenue levels and interclass subsidies. Additionally,
18 Schedule 6 summarizes each class's earned rate of return under current rates, the revenues
19 currently being collected, the allocated cost of service at equal rate of return, and the
20 revenue adjustments necessary to bring class revenues into alignment with their respective
21 cost responsibilities.

1

Table 1 - Summary Results of the Company's ACOSS (\$000)⁷

Customer Classes	Current Revenues	Current Class Revenue to Total	Cost to Serve	Class Cost to Serve to Total	Class Revenue (Deficiency)/ Excess	Percentage Change to Cost to Serve
Residential	\$ 109,152	75.76%	\$ 128,324	79.52%	\$ (19,172)	17.56%
General Service	5,258	3.65%	6,786	4.21%	\$ (1,528)	29.06%
General Service-4	13,973	9.70%	12,814	7.94%	\$ 1,159	-8.29%
Flood Control Power	21	0.01%	23	0.01%	\$ (2)	11.88%
Large Power	13,858	9.62%	11,830	7.33%	\$ 2,028	-14.63%
Lighting	1,823	1.27%	1,591	0.99%	\$ 232	-12.73%
Subtotal	\$ 144,085	100.00%	\$ 161,368	100.00%	\$ (17,283)	12.00%
Other Revenues	\$ 1,304		\$ 1,304		\$ -	
Total System	\$ 145,388		\$ 162,672		\$ (17,283)	11.89%

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Table 1 presents the revenue deficiency/excess for each rate class and the class rate of return on the net rate base at present rates. The revenue deficiency/excess for each rate class shows revenue increases or decreases necessary to get the classes to their cost to serve. Regarding rate class revenue levels, the ACOSS results show that the Residential, General Service, and Flood Control Power rate classes are being charged rates that recover less than their indicated costs of service; whereas rates for other rate classes provide for recovery of more than the indicated costs of serving these other rate classes. In other words, to set each classes' revenues equal to their cost to serve indicated in the ACOSS the Residential, General Service, and Flood Control Power rate classes require an increase in revenues, while General Service-4, Large Power, and Lighting require a decrease in revenues.

Additionally, Table 2 below provides helpful insights into the Company's financial metrics such as the current Rate of Return and corresponding Relative Rate of Return and

⁷ See Exhibit D, Schedule 6, lines 18, line 58, and line 59. Other Revenues is the sum of lines 13 and 14 shown at line 57. General Service includes GS-1 and GS-5.

1 current Revenue to Cost Ratio with the corresponding Parity Ratio at the class-level and
 2 system-level, where system-level is defined as the aggregation of all customer classes.

3 **Table 2 - Current Rate of Return and Revenue to Cost Ratio⁸**

Customer Classes	Current Rate of Return	Relative Rate of Return	Current Revenue to Cost Ratio	Current Parity Ratio
Residential	0.32%	0.09	0.85	0.95
General Service	0.42%	0.12	0.78	0.87
General Service-4	16.10%	4.70	1.09	1.22
Flood Control Power	7.42%	2.17	0.90	1.00
Large Power	20.02%	5.84	1.17	1.31
Lighting	16.36%	4.78	1.15	1.28
Total System	3.43%	1.00	0.89	1.00

4
 5 The Current Rate of Return shows the return each class is earning under existing rates
 6 compared to the Company's overall system return. The Relative Rate of Return expresses
 7 that relationship on a normalized basis, where 1.00 indicates parity with the system
 8 average. Similarly, the current Revenue-to-Cost Ratio compares each class's present
 9 revenues to its allocated cost of service at an equalized rate of return. A ratio of 1.00
 10 reflects revenue-cost alignment, while values above or below 1.00 indicate over- or under-
 11 recovery, respectively. The corresponding Parity Ratio provides the same alignment
 12 measure in index form. Together, these metrics indicate whether a class is contributing
 13 revenues above or below its cost responsibility and provide guidance for evaluating
 14 interclass revenue relationships.

⁸ See Exhibit D, Schedule 6, line 29 and line 31. General Service includes GS-1 and GS-5.

1 **Q. How do the ACOSS results provide guidelines for rate design, both among and within**
2 **rate classes?**

3 A. The ACOSS results provide cost-based guidelines for evaluating both interclass revenue
4 relationships and the design of rates within each class. At the class level, the revenue-to-
5 cost ratios indicate whether existing rates recover more or less than a class's indicated cost
6 of service. Where a class is under- or over-recovering relative to its allocated costs, rate
7 adjustments can be considered to move class revenues closer to cost responsibility and
8 bring class rates of return nearer to the system average rate of return. In this way, overall
9 rate levels are better aligned with the cost of providing service.

10 Within each rate class, the classified and allocated costs developed in the ACOSS
11 provide useful information for establishing the appropriate balance among customer,
12 demand, and energy charges. Schedule 8 of Exhibit D summarizes the Company's
13 functionalized revenue requirement on a per-customer and per-unit of billed demand basis
14 for each rate class, which supports the development of rates that reflect the underlying cost
15 structure of service.

16

17 **V. UGI ELECTRIC'S REVENUE APPORTIONMENT**

18 **Q. Please summarize the guidance the Company's proposed ACOSS provides for**
19 **revenue apportionment to the customer classes.**

20 A. In development of the Company's ACOSS, the analysis begins with cost-based references.
21 Proposals to allocate the base revenue requirement based on cost causation are designed
22 to produce results that are reflective of costs and fair, such that cost assignment aligns with
23 how costs are incurred. Moderation may be applied when translating cost-of-service

1 results into class revenue responsibilities in order to promote rate stability, provide
2 gradualism in the movement towards more cost-based relationships, and maintain rates
3 that are understandable to customers. This framework provides transparency to cost
4 responsibility across customer classes and potential cross subsidies between customer
5 groups. To determine the potential need for moderation of the Company's proposed
6 allocation to customer classes, two boundary reference points are used:

- 7 • Equalized Rate of Return: Revenue apportionment to customer classes to achieve
8 an equalized rate of return for each class, that is, revenues allocated to the
9 customer class are equal to its cost of service. While under this scenario, each
10 customer class pays their share of cost of service (resulting in apportionment that
11 achieves **Fairness** and is **Reflective of Costs**), different customer classes can
12 experience different increases due to the variations between a class's current
13 revenue versus its cost of service, resulting in potential issues with **Stability** and
14 **Simplicity and Understandability**.
- 15 • Equal Percent Increase by Class: Revenue apportionment to customer classes is
16 on an equal percent basis, that is, if revenue in total increases by 12.0%, then the
17 increase to each customer class is 12.0%. Under this scenario, all customer
18 groups will receive the same increase resulting in high **Simplicity and**
19 **Understandability**, however the results may perpetuate cross-subsidies across
20 customer groups, resulting in revenue assignment that is not **Reflective of Costs**.

21 Tables 3 and 4 below present respectively these two reference points, Equalized Rate of
22 Return and Equal Percent Increase by Class, for class apportionment.

Table 3: Revenue Apportionment – Equalized Rate of Return

Customer Classes	Current			Equalized Rate of Return			
	Revenues	% Allocation	Parity Ratio	Revenue Allocation	% Allocation	Parity Ratio	% Change from Current
Residential	\$ 109,152	75.76%	0.95	\$ 128,324	79.52%	1.00	17.56%
General Service	5,258	3.65%	0.87	6,786	4.21%	1.00	29.06%
General Service-4	13,973	9.70%	1.22	12,814	7.94%	1.00	-8.29%
Flood Control Power	21	0.01%	1.00	23	0.01%	1.00	11.88%
Large Power	13,858	9.62%	1.31	11,830	7.33%	1.00	-14.63%
Lighting	1,823	1.27%	1.28	1,591	0.99%	1.00	-12.73%
Total	\$ 144,085	100.00%	1.00	\$ 161,368	100.00%	1.00	12.00%

Table 3 presents the class apportionment of revenues required to achieve equalized rates of return by customer class. This condition is reflected by a revenue-to-cost ratio, or parity ratio, of 1.00, where revenues assigned to each class fully recover that class’s cost of service. The updated ACOSS results indicate an overall system revenue increase of 12.0%. Apportioning this increase across customer classes to achieve an equalized rate of return results in class revenue changes ranging from a decrease of 14.6% (more than 26 percentage points below the system average increase) to an increase of 29.1% (more than double the system average increase). These results illustrate the extent to which current class revenues differ from cost-based levels.

Table 4: Revenue Apportionment – Equal Percent Increase by Class

Customer Classes	Current			Equal Percent by Class			
	Revenues	% Allocation	Parity Ratio	Revenue Allocation	% Allocation	Parity Ratio	% Change from Current
Residential	\$ 109,152	75.76%	0.95	\$ 121,957	75.58%	0.95	11.73%
General Service	5,258	3.65%	0.87	6,020	3.73%	0.89	14.50%
General Service-4	13,973	9.70%	1.22	15,598	9.67%	1.21	11.63%
Flood Control Power	21	0.01%	1.00	26	0.02%	1.13	26.25%
Large Power	13,858	9.62%	1.31	15,575	9.65%	1.31	12.39%
Lighting	1,823	1.27%	1.28	2,193	1.36%	1.38	20.29%
Total	\$ 144,085	100.00%	1.00	\$ 161,368	100.00%	1.00	12.00%

Table 4 presents the class apportionment under an equal percentage increase by customer class. The apportionment of the required revenue increase based on an equal

1 percentage increase of 12.0% across all customer classes results in customer class parity
2 ratios ranging from 0.89 for the General Service class to 1.38 for the Lighting class. Under
3 this approach, existing differences between current revenues and cost of service are
4 maintained, as each class receives the same proportional increase regardless of its current
5 parity ratio.

6

7 **Q. Does the Company propose any moderation to revenue apportionment?**

8 A. Yes. While the ACOSS provides a benchmark for allocating revenues based on a cost of
9 service, the Company recognizes that moving immediately to equalized rates of return
10 across customer classes could result in significant changes in allocated revenues for certain
11 classes. This is particularly true where a utility has a small customer base; the customer
12 base is largely within one rate class, and the largest rate classes are well below the cost of
13 service. Therefore, the Company has moderated the revenue apportionment to balance
14 cost-of-service principles with considerations of gradualism and customer impacts. As
15 such, UGI Electric is not proposing either of the two previously discussed methodologies.

16

17 **Q. What is the Company's proposed revenue allocation?**

18 A. Under the Company's proposal, the overall revenue increase of 12.0% is distributed across
19 the customer classes in a manner that moves classes closer to their cost of service while
20 avoiding the larger revenue shifts that would occur under a fully equalized rate of return
21 approach. As shown in Table 5, the proposed class revenue changes range from 2.24% for

1 the General Service-4 class to 22.47% for the General Service customers⁹, compared to
 2 the larger increases and decreases that would result from strictly equalizing class rates of
 3 return.

4 The resulting parity ratios under the Company’s proposal range from 0.95 for the
 5 General Service class to 1.20 for the Large Power class, representing an improvement
 6 relative to current levels while maintaining reasonable rate stability across customer
 7 classes.

8 **Table 5 – Proposed Revenue Apportionment¹⁰**

Customer Classes	Current			Proposed			
	Revenues	% Allocation	Parity Ratio	Revenue Allocation	% Allocation	Parity Ratio	% Change from Current
Residential	\$ 109,152	75.76%	0.95	\$ 124,535	77.17%	0.97	14.09%
General Service	5,258	3.65%	0.87	6,440	3.99%	0.95	22.47%
General Service-4	13,973	9.70%	1.22	14,286	8.85%	1.11	2.24%
Flood Control Power	21	0.01%	1.00	23	0.01%	1.00	11.88%
Large Power	13,858	9.62%	1.31	14,189	8.79%	1.20	2.39%
Lighting	1,823	1.27%	1.28	1,894	1.17%	1.19	3.92%
Total	\$ 144,085	100.00%	1.00	\$ 161,368	100.00%	1.00	12.00%

9
 10 **Q. To what degree does the Company’s proposed revenue apportionment move the**
 11 **classes toward their cost of service?**

12 A. The Company’s proposed revenue apportionment moves customer classes closer to their
 13 respective cost-of-service levels while maintaining reasonable rate stability across classes.

14 As shown in Table 5, the current parity ratios range from 0.87 for the General Service
 15 class to 1.31 for the Large Power class. Under the Company’s proposal, the parity ratios
 16 move closer to unity for all classes and range from 0.95 for the General Service, which
 17 includes GS-1 and GS-5, to 1.20 for the Large Power class.

⁹ General Service customers include customers in GS-1 and GS-5.

¹⁰ General Service includes GS-1 and GS-5.

1 In particular, classes that are currently recovering less than their cost of service
2 move closer to parity. For example, the General Service increases from a parity ratio of
3 0.87 to 0.95, and the Residential class increases from 0.95 to 0.97. At the same time,
4 classes that are currently recovering more than their cost of service move closer to parity
5 as well. The Large Power class decreases from 1.31 to 1.20, and the Lighting class
6 decreases from 1.28 to 1.19.

7 Overall, the Company's proposed revenue apportionment represents a balanced
8 approach that improves alignment with cost-of-service results while moderating the
9 magnitude of revenue shifts among customer classes.

10

11 **Q. What does Table 6 show regarding the Company's proposed revenue**
12 **apportionment?**

13 A. Table 6 compares the relative rate of return by customer class under current revenues and
14 under the Company's proposed revenue apportionment. The table presents each class's
15 rate of return on net rate base and the corresponding relative rate of return, which measures
16 each class's return relative to the Company's overall system rate of return of 1.00. A
17 relative rate of return below 1.00 indicates that a class is recovering less than the system
18 average return, while a value above 1.00 indicates that the class is recovering more than
19 the system average.

20 As shown in Table 6, the Company's proposal moves the relative rates of return
21 for all classes closer to the system average, thereby improving alignment with cost-of-
22 service results while moderating the magnitude of the changes across customer classes.
23 For example, the Residential class increases from a relative rate of return of 0.09 under

1 current revenues to 0.81 under the proposal, and the General Service class increases from
 2 0.12 to 0.77. At the same time, classes that are currently recovering substantially more
 3 than the system average move closer to unity, such as Large Power, which decreases from
 4 5.84 to 2.08, and Lighting, which decreases from 4.78 to 1.74. Overall, the Company's
 5 proposal improves the alignment between revenues and cost of service while maintaining
 6 reasonable rate stability across customer classes.

7

8 **Table 6 - Comparison of Relative Rate of Return by Rate Class¹¹**

Customer Classes	Current Rate of Return On Net Rate Base	Current Relative Rate of Return	Proposed Rate of Return on Net Rate	Proposed Relative Rate of Return	Percent Change
Residential	0.32%	0.09	6.72%	0.81	80%
General Service	0.42%	0.12	6.38%	0.77	74%
General Service-4	16.10%	4.70	14.10%	1.71	81%
Flood Control Power	7.42%	2.17	8.07%	0.98	102%
Large Power	20.02%	5.84	17.22%	2.08	78%
Lighting	16.36%	4.78	14.35%	1.74	80%
Total Company	3.43%	1.00	8.26%	1.00	

9

10

11 **Q. To what degree does the Company's proposed revenue apportionment decrease the**
 12 **existing subsidies between rate classes?**

13 A. Table 7 summarizes the current and proposed interclass subsidies and the reduction in
 14 subsidies resulting from the Company's proposed revenue apportionment. As shown in
 15 the table, the proposal substantially reduces the magnitude of cross-subsidies among
 16 customer classes.

¹¹ See Exhibit D, Schedule 6, lines 29-30 and lines 73-74.

Table 7 - Comparison of Present and Proposed Subsidies (\$000)¹²

Customer Classes	Current Class Subsidy	Proposed Class Subsidy	Reduction in Subsidy
Residential	(6,251)	(3,788)	2,463
General Service	(489)	(347)	142
General Service-4	2,621	1,473	1,148
Flood Control Power	4	0	4
Large Power	3,591	2,359	1,232
Lighting	524	303	220

The reduction occurs across all classes. For example, the subsidy received by the Residential class decreases from \$6.3 million to \$3.8 million, while the subsidy received by the General Service, which includes GS-1 and GS-5, decreases from \$0.5 million to \$0.3 million. At the same time, subsidies provided by other classes are also reduced. For instance, the subsidy provided by the General Service-4 class decreases from \$2.6 million to \$1.5 million, and the subsidy provided by the Large Power class decreases from \$3.6 million to \$2.4 million. The proposal also results in no subsidy associated with the Flood Control Power class.

Overall, the Company's proposal significantly reduces cross-subsidies while maintaining a moderated transition toward cost-based revenue responsibility.

VI. UGI ELECTRIC'S RATE DESIGN PROPOSALS

Q. Please describe the present rate structure for UGI Electric customers.

A. UGI Electric currently provides electric distribution service under several rate schedules that apply to different customer classes based on usage characteristics and service

¹² See Exhibit D, Schedule 6, line 40 and line 66. Reduction in Subsidy = Absolute difference between Proposed Subsidy and Current Subsidy.

1 requirements. The principal customer classes and rate schedules addressed in this
 2 proceeding include Residential (“R”), General Service (“GS-1” and “GS-5”), General
 3 Service-4 (“GS-4”), Flood Control Power (“FCP”), Large Power (“LP”), and Lighting
 4 service. These rate schedules establish the distribution charges applicable to customers
 5 receiving service from the Company.

6 Under the present rate structure, most customer classes are billed through a
 7 combination of a monthly customer charge and a volumetric distribution charge, with the
 8 volumetric charge generally applied on a flat per-kilowatt-hour basis. Larger commercial
 9 and industrial customers receiving service under Schedules GS-4 and LP are also subject
 10 to demand charges, reflecting the impact of their peak demand on the distribution system.
 11 These demand charges are structured using two-block demand rates, while volumetric
 12 charges for these classes are structured using three-block or four-block declining block
 13 energy rates. Table 8 summarizes the key elements of the present rate design by customer
 14 class.

15 **Table 8 - Current Rate Design by Customer Class¹³**

Rate Schedule	Customer Charge	Demand Charge	Volumetric Charge
Schedule R	Yes	No	Flat rate
Schedule GS1	Yes	No	Flat rate
Schedule GS5	Yes	No	Flat rate
Schedule FCP	Yes	No	Flat rate
Schedule GS4	Yes	2-block rate	3-block rate
Schedule LP	Yes	2-block rate	4-block rate

16
 17
¹³ As described later in this testimony, while Schedules FCP and LP do not have customer charges identified in the tariff, the current rate design creates a minimum bill impact that functions similar to a customer charge.

1 **Q. Please describe the Company's rate design proposals.**

2 A. UGI Electric's proposed rate design reflects an effort to better align rates with the
3 underlying cost of providing electric distribution service while moderating bill impacts to
4 customers. The proposal also considers the results of the Company's cost-of-service study
5 and the gradual transition toward a cost-based rate structure, while moving toward simpler
6 and more streamlined rate structures. The Company's rate design proposals to move
7 towards rate that are more **Reflective of Costs** will result in rates that will better ensure
8 customers contribute a more representative portion of their fair share of utility cost of
9 service (**Fairness**) and promote more efficient use of resources (**Efficiency**). In addition,
10 the Company proposes various rate design changes to **Simplify** and improve
11 **Understandability** of its current rates. The Company proposes the following key changes
12 to the current rate design.

13 First, the Company proposes increasing the customer charge for all rate schedules
14 with current customer charges and establishing a customer charge for Rate LP in order to
15 better reflect the fixed costs associated with providing electric distribution service. A
16 significant portion of distribution system costs are customer related or fixed and do not
17 vary directly with short-term customer usage. Increasing the customer charge, or adding a
18 customer charge, improves cost alignment by recovering a greater portion of these fixed
19 costs through fixed charges rather than through volumetric rates. The proposed increases
20 in customer charges are accompanied by compensating adjustments to volumetric
21 distribution rate components, all else equal. The move to more cost-based customer
22 charges and the compensating decrease in volumetric charges will provide customers with

1 greater month-to month bill stability. In addition, while lower system charges and higher
2 energy rates may provide customers with the incentive to save energy through energy
3 efficiency and conservation, overstated energy rates will provide an inefficient price signal
4 that overvalues energy efficiency and conservation.

5 Second, for non-residential customers on Schedules GS-4 and LP with demand
6 charges, the Company proposes to move demand charges to be more cost based.
7 Distribution system costs are either customer related or demand related. Similar to the
8 Company's proposal to move towards more cost-based customer charges, increasing the
9 demand charge improves cost alignment by recovering a greater portion of demand related
10 costs through demand charges rather than through volumetric rates. The proposed
11 increases in demand charges are accompanied by compensating adjustments to volumetric
12 distribution rate components, all else equal. The Company does not propose to introduce
13 any demand charges for customer groups that currently do not have demand charges in
14 this proceeding.

15 Third, for non-residential customers on Schedules FCP, General Service-4 and
16 Large Power, the Company proposes to begin transitioning away from the current block
17 rate structures for distribution and demand charges by moderating or eliminating existing
18 blocks. Currently, FCP has a block rates structure for its distribution charges, and GS-4
19 and LP have a block rate structure for demand charges and distribution charges. Such
20 structures are generally not aligned with cost-of-service principles because the marginal
21 cost of providing distribution service does not vary with changes in usage or demand and
22 can be overly complex. The Company's proposal moderates or eliminates the existing

1 block structures by adjusting demand and energy charges in a manner that moves rates
2 toward a more cost-reflective structure while moderating potential bill impacts.

3 In addition, the Company's proposed changes will **Simplify** and improve

4 **Understandability** of rates:

- 5 • More consistent definition of fixed monthly charges to be customer
6 charges.
- 7 • Reduction and/or elimination of block rates for demand charges and/or
8 volumetric distribution rates.

9

10 **Q. Are there any rate design proposals for Lighting customers?**

11 A. No. The Company does not propose any changes to rate design for Lighting. Lighting
12 rates will adjust to reflect changes in cost of service as an equal percent change to all
13 distribution rate components equal to the class average change.

14

15 **Q. Please describe what you mean by a cost-based rate structure.**

16 A. A cost-based rate structure is informed by the ACOSS and consists of:

- 17 • A **fixed monthly customer charge** for the recovery of Customer-related costs
18 that vary based on the number of customers served rather than the amount of
19 utility service supplied.
- 20 • A **demand charge** for the recovery of Demand/capacity costs that vary with the
21 demand on various parts of the system.

- 1 • A **volumetric rate** for the recovery of Energy/usage costs that vary based on the
2 quantity of electricity consumed.

3 Often times volumetric rates recover all remaining costs of utility services not
4 recovered through customer or demand charges when customer and demand charges are
5 below cost-based levels.

6

7 **Q. Why is a cost-based rate structure beneficial?**

8 A. A cost-based rate design is one that aligns the rates customers see for energy services with
9 the utility's cost of service, making them **Reflective of Costs** (rates should reflect the cost
10 of providing service to different customer classes). This also promotes **Efficiency** (rates
11 should promote the efficient use of resources and encourage conservation while avoiding
12 undue restriction of economic use) and **Fairness** (rates should be fair to all customer
13 classes, avoiding undue discrimination). The transition to cost-based rates must be
14 balanced and take into consideration current rates to ensure proposed rates meet customer
15 needs for **Simplicity and Understandability** (rates should be simple and understandable
16 for customers) and **Stability** (rates should provide bill stability for customers and revenue
17 stability for the utility).

18

19 **Q. How do cost-based rates promote fairness?**

20 A. A cost-based rate design ensures that all customers pay their fair share of energy services
21 received and avoids intraclass cost-shifts when prices don't reflect cost of service.

1 **Q. Are there any additional considerations made to the determination of a cost-based**
2 **customer charge?**

3 A. For the purposes of developing customer related costs for a residential customer charge,
4 the Commission has previously provided additional guidance regarding costs eligible for
5 recovery through a residential customer charge. This guidance excludes certain costs
6 identified as customer related in the ACOSS and limits eligible costs for recovery through
7 a residential customer charge to be costs associated with meters and services and related
8 O&M expenses, meter reading and billing and collection expenses, meter data
9 management systems, and related employee benefits, administrative and general expenses.
10 The unit cost value used as a reference for development of a cost-based residential
11 customer charge presented in this testimony reflects these adjustments.

12
13 **Q. Are the Company's fixed monthly customer charges currently cost-based?**

14 A. No. It is important to recognize that any revenue not recovered through the fixed monthly
15 customer charge must be recovered through other delivery rate components, such as
16 demand or volumetric charges. All else equal, an increase in the customer charge would
17 result in a compensating decrease in other delivery rate components.

18 The Company's ACOSS provides cost-based reference levels for customer
19 charges. Table 9 compares current customer charges with these cost-based levels. As
20 shown in the table, current customer charges recover only a small portion of customer-
21 related costs for most rate schedules. Except for Schedule LP, current customer charges
22 recover less than 40 percent of the customer-related costs identified in the ACOSS.

1

Table 9 - Comparison of Current and Cost-based Customer Charges¹⁴

Rate Schedule	Current	Cost-Based	% of Cost-based	% Change from Current
Schedule R	\$10.75	\$28.48	37.7%	164.9%
Schedule GS1	\$17.00	\$56.90	29.9%	234.7%
Schedule GS5	\$10.75	\$56.90	18.9%	429.3%
Schedule FCP	\$6.03	\$54.30	11.1%	800.5%
Schedule GS4	\$18.00	\$64.82	27.8%	260.1%
Schedule LP	\$135.80	\$147.03	92.4%	8.3%

2

3

Currently the Schedule LP identifies the following charges:

4

- No customer charge;

5

- A three-block demand charge that includes one price for the first 100 kW of billing demand, another for the next 400 kW of billing demand, and then a third price for demand over 500 kW of billing demand; and

7

8

- A four-block declining volumetric distribution charge that includes one rate for the first 100 hours use of billing demand, a second rate for the next 200 hours use of billing demand but not more than 200,000 kWh, a third rate for the next 200 hours use of billing demand but not more than 200,000 kWh, and a fourth rate for usage above that identified as Excess.

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However the charge for the first 100 kW or less per month is applied as a customer charge, that is, as a fixed dollar amount per month, rather than a demand charge, \$/kW within a given month. Under this pricing structure, customers are effectively paying a customer charge of \$135.80 a month and a zero demand charge for the first 100 kW. For the purposes of this testimony, the fixed component is presented as a customer charge.

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¹⁴ See Exhibit D, Schedule 8, line 63. Cost-based for Residential is explained below in connection to Table 11.

1 In addition, currently the Schedule FCP identifies the following charges:

- 2 • No customer charge;
- 3 • A two-block distribution charge that includes one price for the first 100 kWh
4 of billing demand, another for all additional kWh.

5 However the charge for the first 100 kWh or less per month is applied as a customer
6 charge, that is, as a fixed dollar amount per month, rather than a volumetric distribution
7 charge, \$/kWh within a given month. Under this pricing structure, customers are
8 effectively paying a customer charge of \$6.03 a month and a zero volumetric charge for
9 the first 100 kWh. For the purposes of this testimony, this fixed component is treated as
10 a customer charge.

11

12 **Q. What is the Company's proposal for customer charges?**

13 A. As presented in Table 9 above, current customer charges are well below cost-based levels,
14 recovering only a fraction of customer-related costs identified in the cost-of-service study.
15 The Company seeks to continue moving rates toward levels that are more **Reflective of**
16 **Costs**. To support this objective, the Company proposes to increase the customer charge
17 for several rate schedules, as summarized in Table 10. These proposed increases move the
18 customer charges closer to the cost-based reference levels while maintaining reasonable
19 customer bill impacts. In addition, the Company's proposal also seeks to **Simplify** and
20 improve **Understandability** by introducing more consistent definition and application of
21 customer charges across rate schedules.

1

Table 10 - Customer Charge Proposals

Rate Schedule	Current	Cost-Based	% of Cost-based	Proposed	Proposed % of Cost-based	% Change from Current
Schedule R	\$10.75	\$28.48	37.7%	\$22.00	77.2%	105%
Schedule GS1	\$17.00	\$56.90	29.9%	\$30.00	52.7%	76%
Schedule GS5	\$10.75	\$56.90	18.9%	\$30.00	52.7%	179%
Schedule FCP	\$6.03	\$54.30	11.1%	\$13.50	24.9%	124%
Schedule GS4	\$18.00	\$64.82	27.8%	\$45.00	69.4%	150%
Schedule LP	\$135.80	\$147.03	92.4%	\$150.00	102.0%	10%

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Q. Please describe why an increase in the customer charge to be more cost-based is important.

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A. First, as reflected above, increasing or establishing the customer charge to be more cost-based ensures customers contribute a more representative portion of their fair share of system costs. Second, increasing customer charges also improves bill stability. Third, while lower customer charges and higher energy rates may provide customers with the incentive to save energy through energy efficiency and conservation, overstated energy rates will provide an inefficient price signal that overvalues energy efficiency and conservation. Further, the overall customer bill, inclusive of supply pricing done on a purely volumetric basis, will continue to send adequate and appropriate price signals to

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1 consumers on the value of conservation without interfering with cost causation principles
 2 in the design of the distribution rates.

3

4 **Q. Please describe the additional rate changes proposed for Schedule FCP.**

5 A. Currently under Schedule FCP, as discussed above, customers pay a fixed monthly
 6 distribution charge for the first 100 kWh or less per month per installed pump and pay a
 7 volumetric distribution charge of any additional kWh over that first 100 kWh. In addition
 8 to the movement towards more cost-based rates with an increase in the fixed monthly
 9 charge, the Company proposes to redefine this as a customer charge to improve **Simplicity**
 10 and **Understandability**. In addition, the Company proposes a flat volumetric distribution
 11 charge be applied to all usage in the month. Schedule FCP’s current, cost-based, and
 12 proposed charges are presented in Table 11.

13

Table 11 - Rate Design Schedule FCP

Description	Current	Cost-based	Proposed	%age of Cost-based	% change from current
Customer Charge (\$/mo)	\$ 6.03	\$ 54.30	\$ 13.50	25%	124%
Distribution Charges (\$/kWh)	\$ -	\$ 0.02603	\$ 0.03128		
First 100 kW	\$ -	\$ 0.02603	\$ 0.03128		
Over 100 kW	\$ 0.02733	\$ 0.02603	\$ 0.03128		

14

15

16 **Q. Please describe the additional rate changes proposed for Schedule GS-4.**

17 A. Currently under Schedule GS-4, customers pay a declining 2-block demand charge and a
 18 declining 3-block volumetric distribution charge. In addition to an increase in the customer
 19 charge, the Company proposes to move from a 2-block demand charge to a flat demand

1 charge be applied to all demand and to move from a 3-block volumetric distribution charge
 2 to a flat volumetric distribution charge be applied to all usage in the month. Schedule GS-
 3 4's current, cost-based, and proposed charges are presented in Table 12.

4

5

Table 12 - Rate Design Schedule GS-4

Description	Current	Cost-based	Proposed	%age of Cost-based	% change from current
Customer Charge (\$/mo)	\$ 18.00	\$64.82	\$45.00	69%	150%
Demand Charges (\$/kW)	\$ -	\$6.58	\$3.75	57%	100%
First 20 kW	\$ 3.59				4%
Over 20 kW	\$ 2.20				70%
Distribution Charges (\$/kWh)	\$ -	\$ 0.01092	\$ 0.02624		
First 200 hours of demand	\$ 0.03399				
Next 300 hours of demand	\$ 0.02142				
All over 500 hours of demand	\$ 0.01785				

6

7

8 **Q. Please describe the additional rate changes proposed for Schedule LP.**

9 A. Currently under Schedule LP, customers pay a fixed monthly distribution charge for the
 10 first 100 kW or less per month and demand charges for any demand greater than the first
 11 100 kWh. UGI Electric is proposing to establish a clear customer charge for Schedule LP
 12 that would slightly increase the effective customer charge associated with the first 100 kW
 13 in usage. The Company's proposal includes renaming the current monthly fixed charge
 14 to be a customer charge and introduces a non-zero demand charge to demand less than
 15 100 kW. In addition, the Company proposes to collapse the current declining block
 16 demand charges applicable to the next 400 kW and to kW over 500 to a single demand
 17 charge, thereby moving from the current 3-block demand charge to a 2-block demand

1 charge. Further the Company proposes to move from a 4-block volumetric distribution
 2 charge to a flat volumetric distribution charge that would be applied to all usage in the
 3 month. Schedule LP's current, cost-based, and proposed charges are presented in Table
 4 13.

5 **Table 13 - Rate Design Schedule LP**

Description	Current	Cost-based	Proposed	%age of Cost-based	% change from current
Customer Charge (\$/mo)	\$ 135.80	\$147.03	\$150.00	102%	10%
Demand Charges (\$/kW)	\$ -	\$7.78	\$ -		
First 100 kW	\$ -		\$2.50	32%	100%
Next 400 kW	\$ 0.94		\$5.00	64%	432%
Over 500 kW	\$ 0.69				625%
Distribution Charges (\$/kWh)	\$ -	\$ 0.00112	\$ 0.01125		
First 100 hours of demand	\$ 0.02506				
Next 200 hours of demand	\$ 0.01809				
Next 200 hours of demand	\$ 0.01656				
All over 500 hours of demand	\$ 0.01555				

6

7

8 **Q. Has the Company prepared a detailed comparison of the Company's present and**
 9 **proposed rates and resulting revenues by rate class?**

10 A. Yes. UGI Electric Exhibit E – Proof of Revenue, sponsored by Company witness Epler,
 11 presents a detailed comparison of present and proposed rates and revenues for each of UGI
 12 Electric's rate classes.

1 **VII. CONCLUSION**

2 **Q. Please summarize your conclusions and recommendations for UGI Electric's**
3 **ACOSS, class revenues, and rate design.**

4 A. My conclusions and recommendations are as follows:

- 5 • The Commission should accept the results of the Company's ACOSS as a realistic
6 reflection of cost causation and the design and operating characteristics of the
7 Company's distribution system.
- 8 • The Commission should accept the results from the Company's ACOSS as a guide to
9 evaluate and set UGI Electric's class revenues and rate design in this proceeding. The
10 Company's ACOSS has been developed using a standard, transparent, and widely
11 accepted cost-of-service framework. The study adheres to established cost-causation
12 principles and reflects the guidance set forth in the NARUC Manual. The ACOSS
13 provides a reasonable and supportable allocation of costs to customer classes based on
14 how those costs are incurred to provide service. The results identify the relative cost
15 responsibility of each class, measure current revenue-to-cost relationships, and
16 quantify the adjustments necessary to align revenues with allocated costs under an
17 equalized rate of return framework. As noted above, the Commission previously
18 approved the methods employed by UGI Electric in prior base rate proceedings.
- 19 • The Commission should accept the Company's proposed apportionment of revenues
20 to its rate classes because the Company has exercised sound regulatory judgment by
21 proposing a moderated approach that moves classes toward cost while maintaining
22 rate stability and gradualism. This approach appropriately balances the principles of
23 cost causation, fairness, stability, and revenue sufficiency.

1 • The Commission should approve the rate design proposed by the Company because it
2 reasonably balances key rate design objectives I presented earlier in my testimony,
3 including (1) achieving fair and equitable rate levels that are reflective of the cost to
4 serve; (2) avoiding undue discrimination between and within rate classes; (3)
5 developing rates that are stable and understandable; (4) creating economically efficient
6 pricing for delivery service; (5) encouraging conservation and efficient use; (6)
7 recovering the revenue requirement in a manner that maintains revenue stability and
8 minimizes year-to-year under- or over-collections, and (7) simplifying and improving
9 the understandability of rates.

10

11 **Q. Does this conclude your direct testimony?**

12 **A. Yes, it does.**

UGI ELECTRIC

EXHIBIT CSF-1

CYNDEE FANG

Experienced industry leader with over 20 years of experience who strives to engage others to conceive, create, and execute practical solutions to the most challenging problems. Expert witness with extensive experience and understanding of utility regulatory process including expertise in regulatory strategy and rate design.

PROFESSIONAL HISTORY

ATRIUM ECONOMICS

DIRECTOR, 2024

- Expert witness focused on the following areas of expertise:
 - Regulatory Policy & Strategy;
 - Alternative Regulatory Mechanisms & Cost Recovery;
 - Allocation of Cost of Service; and
 - Rate Design.

NORTHWESTERN ENERGY

VICE PRESIDENT - REGULATORY; 2021 - 2024

- Oversaw the Company's regulatory activities in Montana, South Dakota, and Nebraska.
- Developed and executed a regulatory strategy to advance a more constructive regulatory framework to meet the Company's strategic needs.
- Established an in-house cost of service and rate design team.
- Developed and executed a strategy for Montana rate reviews to advance a more constructive regulatory framework.

SAN DIEGO GAS AND ELECTRIC

ENERGY SUPPLY - ORIGINATION & PORTFOLIO DESIGN MANAGER; 2020 – 2021

- Lead the portfolio design of Electric & Fuel Procurement (E&FP), as SDG&E right-sizes portfolio, with market analytics that inform and guide the long-term strategy including daily optimization activities and forward-looking planning efforts.
- Lead all competitive procurement of renewable energy and conventional resources beyond one year to fulfill SDG&E's energy and resource capacity needs.

EDUCATION

University of Minnesota, Ph.D. (ABD), Applied Economics

University of California, Berkeley, B.S., Political Economics of Natural Resources

YEARS EXPERIENCE

20+

RELEVANT EXPERTISE

Expert Witness, Allocated Cost of Service & Rate Design , Regulatory Strategy

FORECASTING, RESEARCH & ANALYTICS – MANAGER OF ENERGY RESEARCH & ANALYSIS; 2018 – 2020

- Lead and oversee load forecasting, research and analysis teams to ensure the advancement of data-driven decision making in support of the Company's strategic needs including the advancement of operational improvements to better address changing California energy policies. Key areas of focus include impacts of customer adoption of advanced technology (PV, EV) and analysis of COVID impacts.
- Development of collaborative internal stakeholder processes to ensure alignment on Company direction regarding electric sales forecast. Key areas of focus include identification of key drivers and CCA expansion.
- Establishment of collaborative relationships with external stakeholders to support the advancement of the Company's strategic objectives related to the sales forecast.

RATES AND PRICING – MANAGER OF CUSTOMER PRICING; 2017 – 2018

- Oversight of all aspects of the pricing policy to meet the strategic needs of SDG&E and ensure fair and equitable rates for SDG&E's 1.4 million electric customers.
- Development, advocacy and implementation of the Company's rate strategy, including the development of regulatory filings to advance this strategy.
- Development of collaborative internal stakeholder processes to ensure alignment on Company direction regarding electric rates.
- Establishment of collaborative relationships with external stakeholders to support the advancement of the Company's rate strategy needs to include representing the Company as a witness in regulatory proceedings and lead settlement negotiations.

RATE STRATEGY AND ANALYSIS MANAGER; 2015 – 2017

ELECTRIC RATES MANAGER; 2010 – 2015

PRINCIPAL/REGULATORY ECONOMIC ADVISOR; 2006 - 2010

MINNESOTA DEPARTMENT OF COMMERCE

PUBLIC UTILITIES RATES ANALYST; 2003 - 2006

- Development of the position of the Minnesota Department of Commerce on matters related to energy policy and presentation before the Minnesota Public Utilities Commission
- Implementation of Minnesota's Renewable Energy Objective, including the establishment of the Minnesota Renewable Energy Tracking System and compliance review of utility filings (integrated resource plans, certificate of need)

REGULATORY EXPERIENCE

Alternative Regulatory Mechanisms

- Consideration of the Formula Rate Mechanism Tariff Revision Designated as TA 353-4 *on behalf of ENSTAR Natural Gas Company, LLC of Alaska* (Docket No. U-25-013)

- 2022 Montana Rate Review (Docket No. 2022.07.078) - Witness: Priority Regulatory Mechanisms proposing new revenue adjustment mechanisms and redesign of existing mechanisms <https://www.northwesternenergy.com/docs/default-source/default-document-library/billing-and-payment/2022-montana-rate-review/08-fang-direct-testimony-regulatory-policy.pdf>
- PCIA Reform (A.17-04-018) - Joint Application of Southern California Edison Company, Pacific Gas and Electric Company, and San Diego Gas & Electric Company for Approval of the Portfolio Allocation Methodology for All Customers – *Cost Recovery and Rate Design witness for SDG&E*
- Establishment of Tree Mortality Non-Bypassable Charge (TM-NBC) (A.16-11-005) Application to Establish Non-Bypassable Charge (“NBC”) for Above-Market Costs Associated with Tree Mortality Power Purchase Agreements (“Tree Mortality”) in Compliance with Senate Bill 859 and Resolution E-4805 – *Cost Recovery and Rate Design witness for SDG&E*
- SDG&E’s Wildfire Expense Memorandum Account (WEMA) Proceeding (A.15-09-010) – *Cost Recovery witness*
- Establishment of Cost Allocation Mechanism (CAM) (A.11-05-023) - SDG&E’s Authority to Enter into Purchase Power Tolling Agreements with Escondido Energy Center, Pio Pico Energy Center and Quail Brush Power – *Cost Recovery and Rate Design witness*

Affordability

- Affordability Rulemaking – R.18-07-006: Order Instituting Rulemaking to Establish A Framework and Processes for Assessing the Affordability of Utility Service – *SDG&E lead*
- Residential Essential Use Study – A.19-11-019: Joint Utility Proposal for the Study to Identify Electric Essential Usage for Residential Customers – *SDG&E lead*
- A.17-10-007: SDG&E 2019 General Rate Case – *rebuttal witness addressing affordability*
- Residential TOU Exclusions Pursuant to Section 745 – R.12-06-013: To ensure residential customers defaulting to TOU do not experience unreasonable hardship under TOU rates – *Rate Design Policy witness*

Allocated Cost of Service and Rate Design

- 2022 Montana Rate Review (Docket No. 2022.07.078) - Witness: Allocated Cost of Service and Rate Design presenting the Company’s moderation proposals to allocated cost of service and rate design for customers <https://www.northwesternenergy.com/docs/default-source/default-document-library/billing-and-payment/2022-montana-rate-review/31-fang-acos-rd-direct-testimony.pdf>
- SDG&E General Rate Case Phase 2 Application for Authority to Update Marginal Costs, Cost Allocation, and Electric Rate Design - *Rate Design and Policy Witness*

Rate Design

Time-Variant Pricing and Residential Default Time-of-Use

- Petition for Approval of (1) Time of Use (“TOU”) and Critical Peak Pricing (“CPP”) Rates and (2) Modification of the TOU Summer Period for the CPP Pilot Program, and (3) CEI South’s Rate RS-CPP Tariff *on behalf of Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South* (Cause No. 46263)
- Application of San Diego Gas & Electric Company for Authority to Update Electric Rate Design Regarding Residential Default Time-Of-Use Rates and Fixed Charges (A.17-12-013)
- Residential Rate Reform (R.12-06-013) - SDG&E’s Application in response to Order Instituting Rulemaking on the Commission’s Own Motion to Conduct a Comprehensive Examination of Investor Owned Electric Utilities’ Residential Rate Structures, the Transition to Time Varying and Dynamic Rates, and Other Statutory Obligations – *multiple phases*
- SDG&E’s 2016 General Rate Case Phase 2 Proceeding (A.15-04-012) - includes proposal to update TOU periods
- SDG&E’s 2015 Rate Design Window Filing (A.14-01-027) – includes proposal to update TOU periods and residential baseline

Innovative Rate Design and Emerging Technologies

- SDG&E’s Electric Vehicle Grid Integration (VGI) Pilot Program (A.14-04-014) – *Rate Design Policy and Cost Recovery witness*
 - SDG&E was recognized as the 2020 Investor-Owned Utility of the Year by Smart Electric Power Alliance (SEPA) for its “Power Your Drive” program and the innovative VGI rate, an hourly dynamic grid integrated rate. <https://sepapower.org/knowledge/2020-sepa-power-players-award-winners/>
- Net Energy Metering Reform (R.14-07-002) - SDG&E Application in response to Order Instituting Rulemaking to Develop a Successor to Existing Net Energy Metering Tariffs Pursuant to Public Utilities Code Section 2827.1, and to Address Other Issues Related to Net Energy Metering
- Application of SDG&E for Authority to Implement Priority Review and Standard Review Proposals to Accelerate Widespread Transportation Electrification (A.17-01-020) – *Rate Design Policy and Cost Recovery witness*

Economic Development Rates

- Application of San Diego Gas & Electric Company for Authority to Implement Rate Relief and Increase Spend in Support of the San Diego Unified Port District’s Energy Management Plan (A.17-09-005) – *Cost Recovery and Rate Design witness*
- Application of SDG&E for Authority to Implement Economic Development Rates (A.17-02-008) – *Cost Recovery and Rate Design witness*

Cost Recovery

- Assessment of Potential Gas LDC Capital Transition Costs and Analysis of Depreciation and Alternative Cost Recovery Approaches for Pathways to Commonwealth Decarbonization Goals *on behalf of Massachusetts Gas Local Distribution Companies (National Grid; Eversource Energy; Berkshire Gas Company; Liberty Utilities; Unitil)*

- Strategic Targeted Pipe Replacement Plan *on behalf of Washington Gas and Light Company of the District of Columbia* (Formal Case No. 1179) – *rebuttal witness responding to parties on risk of stranded assets and stranded costs*
- SONGS Decommissioning (A.14-12-007) Joint Application of SDG&E and SCE for 2014 SONGS Units 2 & 3 Decommissioning Cost Estimate and related Decommissioning – *Cost Recovery witness*
- SDG&E General Rate Case Application for Authority to Update its Electric and Gas Revenue Requirements and Base Rates - *Cost Recovery and Rate Design witness; multiple years*
- ERRA Trigger (A.17-05-012) Expedited Application of San Diego Gas & Electric Under the Energy Resource Recovery Account Trigger Mechanism
- SDG&E's Energy Resource Recovery Account (ERRA) Forecast Application for the recovery of costs associated with electric procurement – *Cost Recovery and Rate Design witness, multiple years*

SELECTED PUBLICATIONS / PRESENTATIONS

Panelist at Critical Consumer Issue Forum (CCIF)

- Critical Consumer Issues Forum (CCIF) 14th Annual Kickoff Forum in Collaboration at 2023 NARUC Annual Meeting; Topic: “Exploring Rate Design & Other Regulatory Tools: Maximizing Grid Value & the Customer Experience.”
- “Navigating the Challenges & Opportunities of Today’s Regulatory Landscape”
<https://criticalconsumerissuesforum.com/wp-content/uploads/CCIF-2023-Navigating-Regulatory-Landscape-Report.pdf>
- “The Customer-Centered Clean Energy Transition: Balancing Technology, People & the Planet”

Presenter/Instructor ad EEI Advanced Rate School at University of Wisconsin Public Utility Institute (WPUI); July 2021.

Advanced Workshop in Regulation and Competition – Annual Western Conference held by Center for Research in Regulated Industries, of Rutgers Business School, Rutgers University

- “Zen and the Art of Rate Design” – Webinar sponsored by Center for Research in Regulated Industries, of Rutgers Business School, Rutgers University, January 13, 2021 – Link to webinar Zen and the Art of Rate Design [nam02.safelinks.protection.outlook.com]
- Member of Western Conference Organizing Committee from 2015-2022.
- Author/Co-author and Presenter as well as chair/discussant – multiple years.
 - 2022 – “Residential Time of Use Rates...and how one utility got there”
 - 2019 – “A Modern Rate Architecture for California’s Future”
 - 2017 – “Solar Adoption and Customer Consumption in the Residential Sector”
 - 2016 – “Solar Adoption and Customer Demand in the Residential Sector”
 - 2014 - “Revisiting Rate Structure Reform to Meet a Low Carbon Future”
 - 2013 - “Unbundling – A Needed Fix for Residential Rate Design”
 - 2012 - “Rate Structure Reform to Meet a Low Carbon Future”

“Residential Time of Use...and what it took to get there” Presentation at EPRI’s Rates Working Group (September 2020)

Discussant for 2020 POWER Conference– Session: Retail Rate Design (April-May 2020, Energy Institute at Haas School of Business, University of California, Berkeley) - Link to 2020 POWER Conference <https://haas.berkeley.edu/energy-institute/events/power-conference/past-power-conferences/2020-power-conference/>

Panelist at CEC Workshop on Scope of Load Management Rulemaking (January 2020) - Link to workshop <https://www.energy.ca.gov/event/workshop/2020-01/commissioner-workshop-scope-load-management-rulemaking-19-oir-01>

Presentation at Advanced Rate Design Strategy Workshop hosted by Hawaiian Electric (July 2019) - Link to workshop <https://www.hawaiianelectric.com/clean-energy-hawaii/grid-modernization-technologies/advanced-rate-design-strategy>

Panelist at Forth Roadmap Conference 2019 – Session: Rate Design to Accelerate Transportation Electrification (June 2019) - Link to Roadmap 12 <http://roadmapforth.org/program/>

“A Modern Rate Architecture for California’s Future” by Margot Everett (PG&E), Cynthia Fang (SDG&E), Andre Ramirez (SCE), and Jude Schneider (SCE); Public Utilities Fortnightly, Vol 156, No. 12; November 1, 2018.

“SDG&E’s Design of Grid Integrated Rates” at Panelist at CEC Workshop: CA Vehicle-Grid Integration Roadmap (October 2018) - Link to workshop information <https://www.energy.ca.gov/programs-and-topics/programs/california-vehicle-grid-integration-roadmap-update/past-workshops-and>

Panelist at CPUC ZEV Rate Design Forum 2018: California Public Utilities Commission forum to review and evaluate electric rate designs that could support the state's zero-emission vehicle goals established by Governor Jerry Brown's executive order B-48-18: having 5 million light-duty zero-emissions vehicles on the road by 2030. (June 2018) - Link to CPUC ZEV Rate Design Forum 2018 <https://www.cpuc.ca.gov/energy/electricrates/>

Panelist at CPUC Rate Design Forum on Demand Charges and Advanced Rate Designs (December 2017) - Link to CPUC Electric Rate Forum 2017 <https://www.cpuc.ca.gov/General.aspx?id=6442455548>

Presentations at Utility of the Future Rate Group sponsored by Economics Incorporated

- “COVID 19 Impacts – Some Early Insights” (May 2020)
- “A Customer-Focused Alternative to Pricing” (November 2019)
- “SDG&E’s Design of Real Time Pricing and Other Dynamic Rates” (April 2017)



UGI ELECTRIC STATEMENT NO. 12

BRIAN J. MEILINGER

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Docket No. R-2025-3059430

UGI Utilities, Inc. – Electric Division

Statement No. 12

**Direct Testimony of
Brian J. Meilinger**

**Topics Addressed:
Universal Service Programs
Strategic Initiatives
Low-Income Customer Counts**

Dated: March 27, 2026

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Brian J. Meilinger. My business address is 1 UGI Drive, Denver, Pennsylvania
4 17517.

5
6 **Q. By whom are you employed, and what is your current position?**

7 A. I am employed by UGI Utilities, Inc. (“UGI”) as Director, Customer Programs & Public
8 Relations. UGI is a wholly owned subsidiary of UGI Corporation (“UGI Corp.”). UGI has
9 two operating divisions, the Electric Division (“UGI Electric” or the “Company”) and the
10 Gas Division (“UGI Gas”), each of which is a public utility regulated by the Pennsylvania
11 Public Utility Commission (“Commission” or “PUC”). In this role, I am responsible for
12 directing the Company’s Energy Efficiency & Conservation, Universal Service,
13 Community Relations, and Public Relations Departments.

14
15 **Q. What is your educational and professional background?**

16 A. I graduated from Ursinus College with a B.A. in Economics & Business Administration
17 and Saint Joseph’s University with an MBA in Finance. I started my employment with UGI
18 in 2012. My full resume is attached as UGI Electric Exhibit BJM-1.

19
20 **Q. On whose behalf are you testifying in this proceeding?**

21 A. I am testifying on behalf of UGI Utilities, Inc. – Electric Division (“UGI Electric” or the
22 “Company”).

1 **Q. What is the purpose of your direct testimony?**

2 A. The purpose of my direct testimony is to explain the significant efforts that UGI Electric
3 has undertaken to make sure that its customers have access to affordable utility service.
4 Customer affordability is a core focus at UGI Electric. This is evident from the success of
5 the Company's many customer programs, as well as the Company's commitment to
6 voluntarily increase its annual donation to Operation Share from the current \$117,423 per
7 year up to \$150,000 per year for the next three years (FY27, FY28, and FY29). I will
8 discuss these efforts in greater detail below.

9

10 **Q. How is your direct testimony organized?**

11 A. My direct testimony (1) describes how UGI's Universal Service Programs have helped
12 customers afford their utility bills, (2) provides an overview of strategic initiatives to drive
13 increased customer participation in Universal Service Programs and address customer
14 affordability concerns, including the Company's commitment to donate \$150,000 annually
15 to Operation Share for the next three years; and (3) provides data regarding the Company's
16 low-income customer counts.

17

18 **Q. Are you sponsoring any exhibits with your direct testimony?**

19 A. Yes, I am sponsoring UGI Electric Exhibit BJM-1, which provides a list of the proceedings
20 in which I have testified.

1 **II. UNIVERSAL SERVICE PROGRAMS**

2 **Q. Does UGI Electric have a Universal Service and Energy Conservation Program**
3 **(“USECP”)?**

4 A. Yes. The USECP is a comprehensive plan that covers the Company’s universal service
5 programs. In accordance with the Commission’s Universal Service and Energy
6 Conservation Reporting Requirements at 52 Pa. Code §§ 54.71 – 54.78 and §§ 62.1 – 62.8,
7 UGI Electric submits a USECP every five years for the Commission’s review and approval.

8
9 **Q. Did UGI Electric recently file its USECP for the five-year period January 1, 2026,**
10 **through December 31, 2030?**

11 A. Yes. The Company filed its 2026-2030 USECP on April 1, 2025, at Docket Nos. M-2025-
12 3054362 and M-2025-3054366. The parties submitted comments on October 6, 2025, and
13 reply comments on November 10, 2025.

14
15 **Q. Is UGI Electric proposing any changes to its USECP as a part of this base rate**
16 **proceeding?**

17 A. No. However, UGI Electric intends to update its USECP with the \$150,000 donation to
18 Operation Share through 2029 as described in my testimony.

19
20 **Q. Can you please provide an overview of the Company’s USECP?**

21 A. The Company offers four programs under its USECP that assist low-income customers: (1)
22 Customer Assistance Program (“CAP”); (2) the Hardship Fund (i.e., Operation Share); (3)

1 Low Income Usage Reduction Program (“LIURP”); and (4) the Customer Assistance
2 Referral and Evaluation Services (“CARES”).

3 CAP provides discounted monthly bills and arrearage forgiveness for low-income
4 customers at or below 150% Federal Poverty Income Guidelines (“FPIG”). CAP payments
5 are calculated based on a percentage of a customer’s monthly income, also known as a
6 Percentage of Income (“PIP”) amount, or a CAP participant’s average monthly bill, if
7 lower. For electric heating customers, maximum monthly CAP payments are set at 6% of
8 income for customers with household incomes between 0-50%, 8% of income for
9 customers with household incomes between 51-100% FPIG, and 9% of income for
10 customers with household incomes between 101-150% FPIG. CAP participants with no
11 income are placed on the monthly minimum payment, which is \$30 for electric heating
12 service and \$15 for non-heating electric service.

13 Operation Share provides grants of up to \$600 for eligible customers with
14 household incomes up to 250% FPIG who are having difficulty paying their bill. In special
15 circumstances, the Company may provide exceptions to the maximum grant amount of
16 \$600. In order to qualify for a grant, the following criteria must be met:

- 17 • Customer must have a residential account with their premise being the customer’s
18 primary residence;
- 19 • The customer must have an active heating or non-heating account;
- 20 • A customer must not have received the maximum Operation Share grant amount in the
21 prior 12 months, unless in situations of special circumstance as determined by the
22 Company;
- 23 • A customer must have an outstanding balance;

- 1 • A customer must provide proof of identification and adequate information to
2 demonstrate the inability to pay their bill;
- 3 • Customers whose service has been terminated must contact the UGI Credit Department
4 to discuss their options as Community Based Organizations (“CBOs”) cannot provide
5 benefits on an inactive account.

6 The Company’s LIURP offers weatherization services to low-income customers with
7 household incomes up to 200% FPIG. To qualify, a customer must have above average
8 annual usage, defined as exceeding the average residential threshold by 25%, or 6,000 kWh
9 for UGI Electric general customers and 12,788 kWh for UGI Electric heating customers.
10 Additionally, a customer must not have received LIURP in the prior 7 years and must have
11 twelve months of continuous service.

12 CARES offers customers referral services to other community support programs,
13 which may include, but are not limited to, LIHEAP, budget counseling, State
14 Weatherization, Office of Aging, etc. There are no income requirements to participate in
15 CARES.

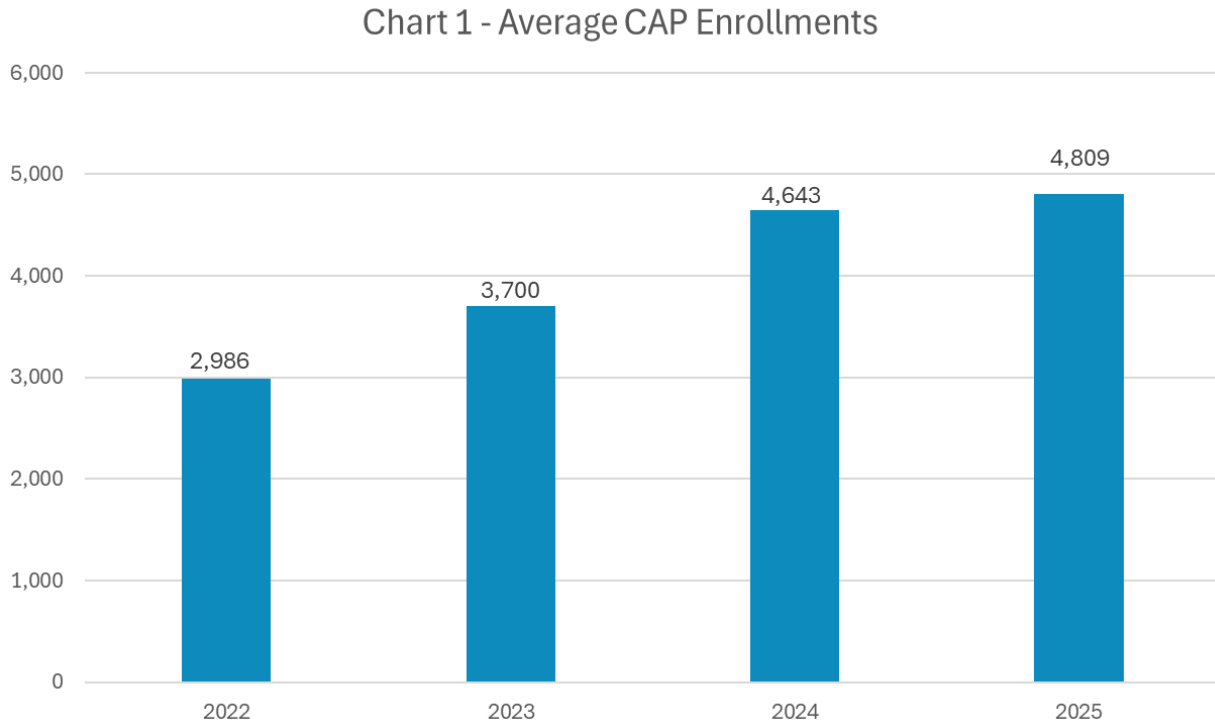
16
17 **Q. Has the Company’s CAP helped low-income customers afford their utility bills?**

18 A. Yes. The Company’s CAP has performed well both in terms of increasing customer
19 enrollments and helping make customers’ bills more affordable.

20
21 **Q. How has the Company’s CAP enrollment increased from prior years?**

22 A. The Company’s average CAP enrollment for 2025 was 4,809 customers, which represents
23 a 4% increase over 2024, and a 61% increase over the 2022 CAP average enrollment of

1 2,986. Please see Chart 1 below for details regarding the growth in UGI Electric CAP
2 enrollments since 2022.



3
4
5 The significant growth in CAP enrollments is a direct result of the Company’s efforts to
6 reach as many low-income customers as possible. As a result of the 2023 UGI Electric
7 Base Rate Case settlement (Paragraph 60(d)), the Company undertook an effort to auto-
8 enroll non-shopping customers who received LIHEAP in the prior 12 months into the
9 Company’s CAP. This initiative led to 173 customers being enrolled in 2024 and 214
10 customers being enrolled in 2025. In order to continue promoting the availability of the
11 CAP, the Company continued with its twice-a-year marketing campaigns to self-certified
12 customers who had not yet gone through the Company’s income verification process, as
13 well as to LIHEAP recipients who were not currently enrolled in CAP, with a call to action
14 to enroll in CAP.

1 **Q. How has CAP worked to make participating customers' bills more affordable?**

2 A. In 2024, the Company provided its CAP customers with approximately \$1.1 million of Pre-
3 Program Arrearage ("PPA") forgiveness and \$6.2 million CAP Shortfall, and in 2025, \$1.2
4 million and \$7.4 million, respectively. The PPA component of CAP benefits customers by
5 providing arrearage forgiveness over a 36-month period if customers continue to make
6 timely, full monthly CAP payments. For instance, a customer entering CAP with \$2,500 in
7 arrears would have \$69.44 ($\$2,500/36$) forgiven each month, assuming the customer
8 continues making monthly CAP payments in full. CAP Shortfall is another significant
9 benefit, as customers are not responsible for monthly costs incurred above the CAP bill.
10 For example, a CAP customer on the Percent of Income Plan with a \$50 per month CAP
11 bill who incurs a usage-based bill calculated at \$150 would not be responsible for the entire
12 bill amount, just the \$50.

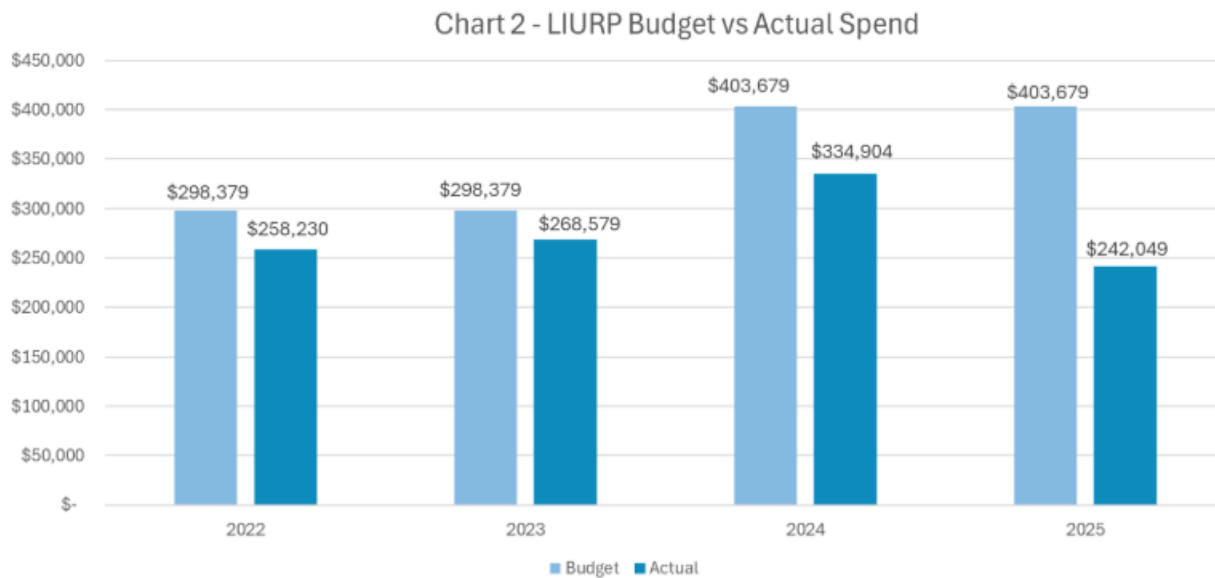
13
14 **Q. What are the Company's plans to continue building upon the growth in CAP
15 customer enrollments?**

16 A. The Company continues to focus on increasing customer enrollment in CAP through its
17 marketing efforts that include ongoing general outreach efforts throughout the year and
18 twice a year personalized outreach via email and direct mail to customers who are self-
19 certified low income and to LIHEAP recipients who are not currently enrolled in CAP. In
20 addition, social media posts, website landing page graphics, and text messages to
21 subscribed customers periodically focus on the benefits of CAP.

1 **Q. How has the Company’s LIURP helped customers?**

2 A. The Company has utilized four CBOs for its LIURP. Since 2022, UGI Electric has had
3 mixed results in utilizing its LIURP budget, as shown below.

- 4 • 2022: 87% of budget utilization
- 5 • 2023: 90% of budget utilization
- 6 • 2024: 83% of budget utilization
- 7 • 2025: 60% budget utilization



8
9 These results are primarily due to issues with some CBOs not being able to fully utilize
10 their agreed-upon budgets. In one particular instance, a CBO that did not perform to
11 contracted spending levels in 2025 had its 2026 budget reduced, and the funds were
12 reallocated to higher performing CBOs.

13 Furthermore, UGI Electric has received feedback from some CBOs that certain jobs are
14 being deferred due to the presence of asbestos and mold or other issues that are preventing
15 the customer from moving forward with the LIURP job.

1 **Q. What are the reasons for the increased variance to the LIURP budget?**

2 A. During the 2022-2025 timeframe, the Company's CBOs completed 231 LIURP jobs, or
3 an average of 58 per year. In 2024, the budget was increased by \$105,300, or 35% from
4 the prior year, to comply with the 2023 UGI Electric BRC Settlement, Paragraph 59(a),
5 which increased the total LIURP budget to accommodate 20 additional baseload and
6 10 additional heating jobs annually. Feedback from CBOs indicates that it will be
7 challenging for UGI Electric to utilize its full LIURP budget in 2026 and beyond.

8

9 **Q. Has the Company's Operation Share Program helped customers?**

10 A. Yes. During the 2022-2025 timeframe, the Company issued nearly 1,600 Operation Share
11 grants for \$515,036 to low-income customers. As part of the UGI Electric 2023 Base Rate
12 Case settlement, Paragraph 58, the Company increased its Operation Share budget by
13 \$30,000 from \$87,423 to \$117,423.

14

15 **Q. Has UGI Electric undertaken any additional voluntary efforts to support its low-**
16 **income customers?**

17 A. Yes. In November 2025, in response to LIHEAP funding delays resulting from the Federal
18 Government shutdown, the Company made a one-time supplemental donation of \$500,000,
19 allocated between the Gas and Electric Divisions, to Operation Share for Fiscal Year 2026.
20 I describe the LIHEAP funding delay in greater detail below. This additional donation
21 brought UGI's contribution to Operation Share for electric customers to \$177,923 for
22 Fiscal Year 2026 and provided additional low-income assistance.

1 **Q. Are there other programs available to payment troubled customers?**

2 A. Yes. In addition to the UGI Electric Universal Service Programs, there are external
3 programs to support payment-troubled customers. These state and federally funded
4 programs include, but are not limited to:

- 5 • The Low Income Home Energy Assistance Program (“LIHEAP”) provides energy
6 grants that help customers restore and/or maintain service, as well as repair or replace
7 broken heating equipment. The LIHEAP season typically runs from November 1
8 through April 1. However, in some years, the season is extended pending funding
9 availability. For the 2025-2026 LIHEAP season, the Company was recently made
10 aware that the season has been extended until May 8. UGI Electric receives a weekly
11 customer voucher file from the Department of Human Services (“DHS”), which
12 contains details of the grant amounts, typically up to a maximum of \$1,000 per
13 customer, who have gone through DHS’s income verification processes and are
14 determined to be at or below 150% FPIG. UGI Electric then applies these grant
15 amounts to customer accounts.
- 16 • The Pennsylvania Weatherization Assistance Program (“WAP”) reduces energy costs
17 and increases comfort while ensuring homes are healthier and safer. WAP services
18 include a variety of measures that are provided (when necessary) to allow the safe and
19 effective installation of weatherization measures. It also provides client education on
20 the proper use and maintenance of the installed weatherization measures and ways to
21 reduce energy waste. The average expenditure per household is \$7,669.¹

22
23 **Q. How much assistance has LIHEAP provided over the past three seasons?**

24 A. Over the prior three LIHEAP seasons (2022/2023, 2023/2024, 2024/2025), the Company
25 facilitated approximately 7,200 grants for nearly \$2.4 million, which was instrumental in
26 assisting low-income customers in maintaining and/or restoring Electric service as well as
27 facilitating emergency furnace repair or replacement. For the 2025-2026 LIHEAP season,
28 which had a delayed start date of early December, the Company has already facilitated the
29 processing of 898 grants for \$279,990 as of early February 2026.

¹ <https://dced.pa.gov/programs/weatherization-assistance-program-wap/>.

1 **Q. What actions did the Company take to help offset the customer impacts that could**
2 **have resulted from the delay in LIHEAP launching for the 2025/2026 season?**

3 A. In addition to the proactive supplemental Operation Share Company contribution
4 mentioned earlier, the Company's efforts described below were designed to provide
5 additional assistance to customers and minimize terminations during the delay in LIHEAP
6 funding until the program resumed in December 2025.

7 **Active Income Verified Low-Income Customers (150% FPIG):**

- 8 • Effective November 1, 2025, UGI temporarily suspended field terminations for
9 non-payment for CAP customers. The Company also worked to maximize any
10 available Operation Share grants to assist with arrears. If an Operation Share grant
11 had already been applied during the year, consistent with its USECP, the
12 Company provided a one-time Operation Share grant in excess of the individual
13 maximum of \$600 up to \$900 to help maintain the customer's service as active.
14 For this initiative, the grant issued was equal to the total arrearage, up to a
15 maximum of \$900. There were 490 Operation Share grants totaling approximately
16 \$90,000 issued to customers in need during the month of November.
- 17 • Effective November 1, 2025, UGI temporarily suspended field terminations of
18 active customers in arrears who received LIHEAP within the last 12 months and
19 were not enrolled in CAP. The Company continued its Dunning notices during
20 this timeframe to encourage customers to contact the Company and enroll in a
21 Universal Service Program.
 - 22 o The Company actively solicited these customers via auto dialer and by
23 email, requesting they immediately contact UGI to enroll in CAP to keep
24 service active.
 - 25 o Customers who received LIHEAP in the prior season were offered
26 streamlined enrollment in CAP and did not have to provide proof of income
27 to enroll.

1 **Inactive Income Verified Low-Income Customers (150% FPIG &**
2 **Already Terminated for Non-Payment):**

- 3 • For inactive income verified low-income customers (150% FPIG) who contacted
4 the UGI Call Center about their service that had been terminated for non-payment,
5 UGI representatives reviewed options with the customer about enrolling in CAP. If
6 the customer agreed to and was qualified to enroll in CAP, their service was
7 reconnected, and an Operation Share grant was applied to their account. For
8 inactive income verified low-income CAP customers (150% FPIG) who contacted
9 the UGI Call Center about their service that was terminated for non-payment, the
10 Company applied an Operation Share grant to their account to help offset their
11 arrears and turn service back on.

12
13 **Q. What impacts did these actions have in November and December 2025?**

14 A. The success of the Company’s efforts during the November and December 2025 timeframe
15 was substantial. Company representatives worked overtime to provide additional
16 assistance to customers who may have been impacted by the Government Shutdown.
17 Highlights are summarized below:

- 18 • 559 Operation Share grants, totaling \$128,483, were issued in November and
19 December 2025. This can be compared to 45 grants for \$14,562 during this same time
20 period in 2024.

21
22 **III. STRATEGIC INITIATIVES**

23 **Q. What actions has the Company undertaken to maximize customer enrollment in**
24 **Universal Service Programs?**

25 A. Related to the UGI Electric 2023 Base Rate Case settlement, the Company has undertaken
26 several initiatives to assist with customer enrollment in Universal Service Programs. First,
27 the Company increased its Operation Share annual funding commitment from \$87,423 to
28 \$117,423. Second, the annual LIURP budget was increased by \$105,300 to accommodate

1 20 additional baseload and 10 additional heating jobs annually. Third, the Company
2 expanded access to the LIURP from a prior maximum of 150% of FPIG to 200% of FPIG
3 (up to 20% of total budget), which enables a larger population of customers to be eligible
4 for weatherization services. Fourth, the Company solicited customers via email and direct
5 mail who self-reported Level 1 income in the prior 12 months for enrollment in the
6 Company's CAP twice a year. Fifth, the Company undertook a very time-consuming and
7 manual process to auto-enroll and recertify customers for CAP. The auto-enrollment
8 initiative was focused on customers who received LIHEAP but were not yet enrolled in
9 CAP. This initiative was an "opt out" campaign, which means that customers must contact
10 UGI Electric if they do not want to be auto enrolled. Finally, the Company has been
11 participating in the DHS data sharing process and has been analyzing this data and
12 evaluating methods to use this information to further promote the availability of the UGI
13 Electric Universal Service Programs. Examples include outreach to data sharing
14 participants who have not yet enrolled in CAP, as well as utilizing the data sharing file to
15 recertify customers for CAP. For instance, in February 2026, the Company solicited 110
16 Electric customers for enrollment in CAP via email or direct mail and is still compiling the
17 results of this effort to determine how many are interested in enrolling in CAP.

18
19 **Q. What does UGI intend to do to further address affordability concerns for its**
20 **customers?**

21 A. UGI recognizes the importance of supporting the affordability of utility bills for its low-
22 income customers. That is why the Company is committing to contribute \$150,000
23 annually to Operation Share in Fiscal Years 2027, 2028, and 2029. This multi-year

1 commitment reflects an increase of more than 25% to the Company's contribution to
2 Operation Share. The additional funds will provide substantial assistance to low- and
3 moderate-income customers with income levels up to 250% FPIG.

4
5 **IV. CONFIRMED LOW INCOME CUSTOMER COUNTS**

6 **Q. Did UGI Electric previously identify inconsistencies with regulatory reporting of**
7 **confirmed low-income customer counts on prior Universal Service Reports (“USR”)?**

8 A. Yes. During the 2025 UGI Gas Base Rate Case, it was discovered that the Company had
9 inadvertently reported self-certified low-income customers up to 250% FPIG on prior USR
10 filings; however, the Company should have reported only those customers up to 150%
11 FPIG. Therefore, the Company's confirmed low-income customer counts on prior USRs
12 were affected by unintentional data inconsistencies, which increased the number of
13 customers included.

14
15 **Q. Has UGI Electric taken steps to ensure that its internal tracking of the “confirmed**
16 **low-income” designation for Universal Service Reporting and USECP purposes has**
17 **become more accurate?**

18 A. Yes. In 2025, the Company made information technology (“IT”) system enhancements to
19 ensure that future Universal Service Reports will include self-certified low-income
20 customers up to 150% FPIG, not 250% FPIG as previously reported in prior years. This
21 enhancement includes leveraging a more suitable data source, which directly supports the
22 reporting questions being asked. However, significant time and effort were required to
23 thoroughly vet and cleanse the data, which could not be achieved retrospectively. As a
24 result, the 2025 USR confirmed low-income count may result in an overstatement of

1 confirmed low-income counts. The Company anticipates that the confirmed low-income
2 counts that will be included in the 2026 Universal Service Report and filed in April 2027,
3 will accurately reflect self-certified low-income customers up to 150% FPIG.

4 Importantly, the Company’s definition of “Confirmed Low Income” is now
5 consistent with the PUC’s regulations at 52 Pa. Code § 62.2, which defines a “confirmed
6 low-income residential account” to include “[a]ccounts where the NGDC has obtained
7 information that would reasonably place the customer in a low-income designation. This
8 information may include receipt of LIHEAP funds, self-certification by the customer,
9 income source or information obtained in § 56.97(b) (relating to procedures upon ratepayer
10 or occupant contact prior to termination).” However, 52 Pa. Code § 62.2 also defines a
11 “low-income customer” as “[a] residential utility customer whose gross household income
12 is at or below 150% of the Federal poverty guidelines. Gross household income does not
13 include the value of food stamps or other noncash income.”

14
15 **Q. How many confirmed low-income customers does UGI Electric have?**

16 A. As of February 11, 2026, the Company had 9,511 confirmed low-income customers. This
17 figure represents customers who have self-certified their income, participated in the
18 Company’s CAP, Operation Share, or LIURP, where income was verified to be at below
19 150% FPIG, as well as those customers who have received LIHEAP in the prior 12 months.

20 Of the 9,511 Confirmed Low Income customers referenced above, UGI Electric
21 has 6,434 customers who have gone through the Company’s income verification process,
22 have been verified at or below 150% FPIG, and are eligible to participate in a Universal
23 Service Program.

1 V. **CONCLUSION**

2 Q. **Does this conclude your testimony?**

3 A. Yes, it does.

UGI ELECTRIC

EXHIBIT BJM-1

Brian J. Meilinger
Director – Customer Programs & Public Relations

Work Experience

UGI Utilities, Inc.

2025 – Present	Director – Customer Programs & Public Relations
2021 – 2025	Sr. Manager – Customer Programs & Community Relations
2015 – 2021	Manager – Energy Efficiency & Conservation Programs
2012 – 2015	Sr. Analyst – Financial Planning & Analysis

Previous Testimony

UGI Utilities, Inc. Gas Division Base Rate Increase Filing: Docket No. R-2024-3052716

UGI Utilities, Inc. Gas Division Base Rate Increase Filing: Docket No. R-2025-3059523

Education

Master of Business Administration in Finance - Saint Joseph’s University, Philadelphia, PA
Bachelor of Arts in Economics & Business Administration - Ursinus College, Collegeville, PA