

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 12**

**Direct Testimony of Andrew Elmore**

**Topics:    Taxes**

**Dated: September 30, 2025**

## Direct Testimony of Andrew Elmore

1    **I.    INTRODUCTION**

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

3    A.    My name is Andrew W. Elmore. My business address is 645 Hamilton Street,  
4           Allentown, PA.

5

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

7    A.    I am employed as Vice President – Tax by PPL Corporation (“PPL Corp.”), which is  
8           the parent company of PPL Electric Utilities Corporation (“PPL Electric” or the  
9           “Company”).

10

11   **Q.    What are your responsibilities as Vice President – Tax?**

12   A.    I have held this position since September 2020, and in that role, I am responsible for all  
13           aspects of PPL Corp.’s income tax compliance and planning, tax accounting, and  
14           financial reporting for Securities and Exchange Commission (“SEC”) and regulatory  
15           purposes related to tax matters.

16

17   **Q.    What is your educational background?**

18   A.    I earned a Bachelor’s degree in French and political science from the University of  
19           Massachusetts in Boston in 1989 and a Juris Doctor degree from the University of  
20           Kentucky in 1993.

21

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1   **Q.    Please describe your professional experience.**

2    A.    From 1993 until 1996, I was employed as an associate at a law firm in Providence, RI.  
3        I then worked at Arthur Andersen in Boston until 2000 and subsequently at Deloitte in  
4        Boston until 2004. In the same year, I assumed a position at United Technologies  
5        Corporation in Hartford, CT until 2006. I then worked for Zimmer Biomet in Indiana  
6        until 2011 when I was employed by PPL. From 1996 through 2019 my primary practice  
7        area was international tax.

8

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

10   A.    My testimony and accompanying exhibits describe and support PPL Electric's  
11        calculation of certain tax-related ratemaking adjustments to the retail rate base and  
12        operating expenses contained in the historic test year ("HTY"), future test year ("FTY"),  
13        and fully projected future test year ("FPFTY") retail rate base and operating expenses.  
14        In addition, my testimony describes the impacts to PPL Electric of significant federal  
15        tax legislation that has been enacted since the filing of the last rate proceeding.

16

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

18   A.    Yes. I am sponsoring PPL Electric Exhibits AE-1 and AE-2 and portions of Part II of  
19        the filing requirements as noted on its index.

20

## Direct Testimony of Andrew Elmore

1    **II.    TAX ADJUSTMENTS**

2    **Q.    Are you sponsoring any schedules in Exhibits Historic 1, Future 1 and Fully**  
3    **Projected Future 1?**

4    A.    Yes. I am sponsoring the following: Schedules B-5, C-6, D-16, D-17, D-18, and D-19  
5    of Exhibits Historic 1, Future 1, and Fully Projected Future 1.

6

7    **Q.    What is shown on Schedules B-5 of Exhibits Historic 1, Future 1, and Fully**  
8    **Projected Future 1?**

9    A.    Schedules B-5 of Exhibits Historic 1, Future 1 and Fully Projected Future 1 set forth the  
10    Company's detailed statement of taxes for the 12 months ended June 30, 2025, June 30,  
11    2026, and June 30, 2027, respectively. Those taxes include, but are not limited to, state  
12    and federal income taxes, state and federal taxes other than income taxes, and deferred  
13    taxes.

14

15   **Q.    What is shown on Schedules C-6 of Exhibits Historic 1, Future 1 and Fully**  
16   **Projected Future 1?**

17   A.    Schedules C-6 of Exhibits Historic 1, Future 1 and Fully Projected Future 1 reflect the  
18    balances of deferred income taxes at the end of the respective test years, including the  
19    tax deferrals related to Accelerated Cost Recovery System ("ACRS") and Modified  
20    Accelerated Cost Recovery System ("MACRS") property. The applicable  
21    ACRS/MACRS statute provides for mandatory normalization of federal tax benefits on  
22    post-1980 property. Accordingly, PPL Electric has claimed federal income tax  
23    normalization associated with ACRS/MACRS-related property in this filing, as well as

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1 deferred income tax balances associated with plant-related book and tax basis  
2 differences such as Contributions in Aid of Construction (“CIAC”), tax repairs  
3 deduction under Internal Revenue Code Section (“Section”) 162, tax capitalization of  
4 Section 263A costs and Section 174 Research and Development (“R&D”) costs, etc.  
5 (collectively “basis differences”) related to ACRS/MACRS property. It should be  
6 noted that the amounts shown for ACRS/MACRS property and basis differences have  
7 been reduced by deficient deferred taxes related to net operating losses which gave rise  
8 to those deferred tax balances. Please see testimony below discussing the Tax Cuts and  
9 Jobs Act for discussion on deficient deferred taxes. For the Historic and Future test  
10 years, deferred tax related to riders (Distribution System Improvement Charge and  
11 Smart Meter) have been removed from the ending balances. For the FPFTY, the  
12 incremental deferred tax liability arising from the items discussed are calculated on a  
13 prorated basis in accordance with Treasury Regulation Sec. 1.167(l)-1(h)(6)(ii).

14  
15 **Q. Please explain the “Adjustment to Taxes Other Than Income” shown on Schedules**  
16 **D-13.**

17 A. Schedules D-13 of Exhibits Historic 1, Future 1, and Fully Projected Future 1 reflect  
18 Pennsylvania Gross Receipts Tax (“GRT”) and Public Utility Realty Tax Act  
19 (“PURTA”) adjustments, which are discussed in detail below. Any differences between  
20 actual tax amounts and the amounts reflected in these schedules will be captured in the  
21 State Tax Adjustment Surcharge (“STAS”) rate filing and reflected in rates commencing  
22 on January 1 of each year after this proceeding.

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1    **Q.    Please explain the Pennsylvania Gross Receipts Tax shown on Schedules D-16.**

2    A.    The adjustment to GRT is shown on Schedules D-16, page 1 for Exhibits Historic 1,  
3        Future 1, and Fully Projected Future 1. This adjustment reflects the GRT liability  
4        changes that will result from base rate revenue projections generated by the  
5        annualization of sales under present rates. The GRT impact of these revenue projections  
6        is reflected on page 2 of those schedules.

7  
8    **Q.    Please explain the adjustment for PURTA on Schedules D-16.**

9    A.    The PURTA is calculated under present rates based on the state taxable value and  
10        PURTA millage rate as of the December 31, 2024, tax year per the Pennsylvania  
11        Department of Revenue's Public Utility Realty Tax Notice of Determination Letter  
12        dated July 30, 2025. The tax expense per books for the 12 months ended June 30, 2025,  
13        and the tax expense per budget for the 12 months ending June 30, 2026, and June 30,  
14        2027, are deducted from the respective test year's amounts above to determine the  
15        adjustment for PURTA.

16

17   **Q.    Please explain the adjustment of federal and state income taxes, shown on**  
18   **Schedules D-17.**

19   A.    Schedules D-17 show, in column 1, the tax computation as recorded for the 12 months  
20        ended June 30, 2025, and as budgeted for the 12 months ending June 30, 2026, and June  
21        30, 2027. Column 2 shows adjustments required to exclude revenues, expenses and  
22        income tax adjustments associated with the various Automatic Recovery Clauses and  
23        Riders. These clauses and riders include:

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1 Generation Service Charges (“GSC-1” and “GSC-2”)

2 Act 129 – Energy Efficiency Rider Phase 4 (“ACR 4”)

3 Transmission Service Charge (“TSC”)

4 Universal Service Rider (“USR”)

5 Competitive Enhancement Rider (“CER”)

6 Purchase of Receivables (“POR”)

7 Merchant Function Charge (“MFC”)

8 Distribution System Improvement Charge (“DSIC”) (excluded in 12 months  
9 ended June 30, 2025, and June 30, 2026)

10 Smart Meter Rider – Phase 2 (“SMR 2”) (excluded in the 12 months ended June  
11 30, 2025, and June 30, 2026)

12 Tax Cuts and Jobs Act (“TCJA”)

13 Storm Damage Expense Rider (“SDER”)

14 Column 3 shows the derivation of the revenues, expenses and tax adjustments for PPL  
15 Electric’s combined transmission and distribution (“T&D”) operations only. Column 4  
16 shows the various adjustments for a proper computation of taxable income on a pro  
17 forma basis at present rates. Column 5 shows the pro forma income tax computation at  
18 present rates.

19 Taxable income and the tax computations are adjusted in Column 4 for the  
20 following reasons:

- 21 • To reflect the effect on taxable income of adjustments to revenue and  
22 expense set forth on Schedules D-2 and to reflect other changes in taxable  
23 income.

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- 1           • To eliminate the effect of prior year tax adjustments, provisions for possible  
2           tax deficiencies and non-plant deferred taxes under flow-through  
3           ratemaking on the books for the 12 months ended June 30, 2025.
- 4           • To eliminate the effect of the non-plant deferred taxes under flow-through  
5           ratemaking reflected in the forecasts for the 12 months ended June 30, 2026,  
6           and June 30, 2027.

7

8   **Q.   Please describe how depreciation is calculated for tax purposes.**

9   A.   In general, depreciation for tax purposes is computed starting with the tax basis of the  
10       property and using various depreciation methods and rates that differ from those used  
11       in computing book depreciation. Tax depreciation is typically, if not invariably, higher  
12       than book depreciation, resulting in lower tax basis in assets compared to book basis.

13               In computing tax depreciation for this filing, PPL Electric applied the same  
14       methods used in its prior base rate proceedings and its Federal and Pennsylvania income  
15       tax returns. That is, for property acquired after 1980, PPL Electric uses the ACRS, as  
16       provided for in the Economic Recovery Tax Act of 1981, and the MACRS, as provided  
17       for in the Tax Reform Act of 1986. In addition, PPL Electric adopted, for income tax  
18       purposes, a broader view of “unit of property” related to its ACRS/MACRS property.  
19       As a result, those components of property that are “functionally interdependent” can be  
20       considered a distinct unit of property and, as such, certain expenditures for repairs to  
21       this property can be currently deducted for tax purposes.



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1   **Q.    Can you elaborate on the adjustment related to annualized interest?**

2    A.    This adjustment is the result of adjusting the interest deduction based on the test year-  
3       end rate base, as shown on Schedules D-17, page 3. Because customers pay a return on  
4       only these amounts, the interest associated with this investment is properly applied to  
5       PPL Electric's T&D operations for ratemaking purposes.

6

7   **Q.    Please summarize the effects of these tax adjustments.**

8    A.    Recognition of all tax adjustments reflected on Schedules D-17 results in a net decrease  
9       in taxable income for the HTY, FTY, and FPFTY. Taxable income is the basis for  
10       computing both federal and Pennsylvania income taxes.

11           The actual Pennsylvania Corporate Net Income Tax rate is being phased down  
12       over several years, starting with 8.49% for 2024, 7.99% for 2025, 7.49% for 2026 and  
13       6.99% for 2027. The test years will reflect a blended Pennsylvania Corporate Net  
14       Income Tax Rate due to test year activity over two calendar year periods with different  
15       state tax rates. The federal income tax is computed at the current 21% tax rate. For  
16       federal income tax purposes, the amount of Pennsylvania income tax is an allowable  
17       deduction. Details of the computations of all taxes incurred as a result of the proposed  
18       revenue increase are shown on Schedules D-17, page 4.

19

20   **Q.    Please explain Schedules D-18 "Adjustment to Provision for Deferred Income**  
21       **Taxes" for the test years.**

22    A.    Normally, deferred taxes arise in connection with expenses which, for various reasons,  
23       are recorded on the books as an expense in a different year and/or amount than the same

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1 item is allowed as an income tax deduction. This is referred to as a book/tax timing  
2 difference. Generally Accepted Accounting Principles (“GAAP”), which are prescribed  
3 by the Financial Accounting Standards Board (“FASB”), require that the tax savings  
4 related to an expense item be recorded on the books at the same time as the expense  
5 item is recorded. For example, if the expense item is deducted for book purposes in a  
6 year subsequent to the year it is deducted for tax purposes, a deferred tax charge is  
7 recorded on the income statement and a liability for such tax is recorded on the balance  
8 sheet in the year the tax deduction occurs. The same principle also applies to revenue  
9 items.

10 Schedules D-18 show the normalization of the net deferred taxes recorded on the  
11 books for the 12 months ended June 30, 2025, and as budgeted for the 12 months ending  
12 June 30, 2026, and June 30, 2027. For all test years, the specific items covered by  
13 deferred taxes arise in connection with timing differences, as discussed above.

14 Regarding Schedules D-18, PPL Electric uses ACRS/MACRS in computing tax  
15 depreciation on post-1980 property additions. Schedules D-18 reflect the mandatory  
16 deferral of the federal income tax effects of ACRS/MACRS based on the tax plant  
17 balances at June 30, 2025, 2026, and 2027. Schedules D-18 also reflect the deferral of  
18 income taxes associated with basis differences related to ACRS/MACRS property.

19 Deferred taxes are adjusted in column 4 for the following reasons:

- 20 • To remove deferred taxes on non-plant related timing differences to  
21 reflect Pennsylvania flow-through ratemaking.
- 22 • To eliminate the effect of prior year tax adjustments and provisions for  
23 possible tax deficiencies recorded for the 12 months ended June 30,

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1 2025.

- 2 • To reflect the deferred tax impact of pro forma adjustments on plant-  
3 related timing differences discussed above.

4

5 **Q. Please explain Schedules D-19 “Adjustment to Amortization of Deferred**  
6 **Investment Tax Credit.”**

7 A. Schedules D-19 adjust the amortization of the investment tax credit to reflect a full year's  
8 amortization based on the remaining balance of unamortized investment tax credit as of  
9 June 30, 2025, 2026, and 2027. If applicable, Schedules D-19 will also include new  
10 investment tax credits for the test years.

11

12 **II. ACT 40 REQUIREMENTS**

13 **Q. Mr. Elmore, are you familiar with Section 1301.1 of the Public Utility Code, which**  
14 **is otherwise known as Act 40 of 2016?**

15 A. Yes, I am. The legislation, among other things, eliminated the use of consolidated tax  
16 savings adjustments for setting rates for public utilities in Pennsylvania. Subsection (b)  
17 of Section 1301.1 requires a utility to demonstrate that it shall use at least 50 percent of  
18 what otherwise would have been the revenue requirement associated with a consolidated  
19 tax savings adjustment to support reliability or infrastructure related to the rate-base  
20 eligible capital investment and that the other 50 percent shall be used for general  
21 corporate purposes. However, it is also my understanding that this subsection (b) “shall  
22 no longer apply after December 31, 2025,” under its own terms. 66 Pa. C.S.  
23 § 1301.1(c)(1). My understanding is predicated in part on the advice of counsel.

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1

2 **Q. Has the Company calculated what would have been the ratemaking level of a**  
3 **consolidated tax savings adjustment for PPL Electric prior to the enactment of**  
4 **Section 1301.1 of the Public Utility Code?**

5 A. As explained above, subsection (b) no longer applies after December 31, 2025. Because  
6 the Commission's Final Order in this proceeding will be entered after the expiration of  
7 subsection (b), the Company maintains that it is not required to present that calculation.

8 Notwithstanding, a calculation of the consolidated tax adjustment for that  
9 purpose, using the modified effective tax rate methodology traditionally used by the  
10 Commission prior to the enactment of Act 40, is set forth in PPL Electric Exhibit AE-  
11 1.

12

13 **Q. If Section 1301.1(b) of the Public Utility Code no longer applies as of December 31,**  
14 **2025, and the Company's claim in this case is based upon an FPFTY that ends**  
15 **after the date that it no longer applies, why is the Company providing this**  
16 **calculation in this proceeding?**

17 A. It is my understanding that Section 1301.1(c)(2) of the Public Utility Code states that  
18 Act 40 "shall apply to all cases where the final order is entered after the effective date  
19 of this section." Also, the Commission theoretically could opt not to suspend the  
20 proposed rate increase for seven months, although it is my understanding that is the  
21 Commission's typical procedure in base rate cases. Therefore, the proposed rates  
22 technically could become effective before Section 1301.1(b)'s December 31, 2025  
23 expiration date. Due to this timing, the Company is providing what would have been

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1 the ratemaking level of a consolidated tax savings adjustment for PPL Electric prior to  
2 the enactment of Section 1301.1 of the Public Utility Code.

3  
4 **Q. Is the Company's presentation in this filing consistent with the Commission's and**  
5 **the Commonwealth Court's treatment of PA Act 40 of 2016?**

6 A. Yes. I believe that the Company's presentation in this filing is consistent with the  
7 Commission's determination on Act 40 in UGI Utilities, Inc. – Electric Division's 2018  
8 Base Rate Proceeding at Docket No. R-2017-2640058 as well as the Commonwealth  
9 Court's order affirming the Commission's order on appeal.

10  
11 **III. TAX LEGISLATION**

12 **Q. Please explain the significant changes made by the TCJA?**

13 A. The TCJA was enacted in 2017 after PPL Electric's previous rate case. The more  
14 significant changes applicable to regulated public utilities were: (1) the reduction in the  
15 U.S. federal corporate income tax rate from a top marginal rate of 35% to a flat rate of  
16 21%, effective January 1, 2018; (2) limitations on the tax deductibility of interest  
17 expense, with certain exceptions from such limitations, including an exception for  
18 regulated public utilities; (3) full current year expensing of capital expenditures with an  
19 exception for regulated public utilities that qualify for the exception to the interest  
20 expense limitations; and (4) the continuation of certain rate normalization requirements  
21 for accelerated tax depreciation benefits.

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1 **Q. Please explain how TCJA impacted PPL Electric?**

2 A. On the date of enactment, PPL Electric remeasured its deferred tax assets and liabilities  
3 due to the reduction of the U.S. Federal Corporate income tax rate to 21%. The changes  
4 in accumulated deferred income taxes (“ADIT”), described as excess or deficient  
5 deferred taxes, were, in large part, recorded as an offset to either a regulatory asset or  
6 regulatory liability to be reflected in future rates charged to customers. A combination  
7 of IRS normalization requirements and utility commission approvals dictate how the  
8 excess and deficient deferred taxes reflected in the regulatory assets and liabilities are  
9 amortized and included in customer rates. Excess ADIT balances related to federal  
10 method and life book and tax depreciation differences, known as “protected” ADIT, are  
11 governed by IRS normalization requirements and must be amortized using the Average  
12 Rate Assumption Method (“ARAM”). All other excess ADIT balances (“unprotected  
13 ADIT”) are amortized in accordance with regulatory approvals. The Commission’s  
14 orders at Docket Nos. M-2018-2641242 and P-2019-3013366 provided a temporary  
15 methodology to pass the tax benefits of the amortization of excess ADIT to customers  
16 until utilities within the state filed their next rate case. PPL Electric has not filed a rate  
17 case following the enactment of the TCJA until the current year. Consequently, PPL  
18 Electric has prepared the Commission-issued templates to include the amortization of  
19 excess and deficient ADIT and tax rate changes on taxable income in a TCJA rider to  
20 pass the tax benefits of TCJA to customers. The TCJA customer credits will no longer  
21 be administered through the TCJA rider when new customer rates go into effect.

22

**Direct Testimony of Andrew Elmore**

1   **Q.**     **Can you explain the provisions and impacts of Public Law No: 119-21 (H.R. 1,**  
2           **119th Congress), otherwise known as the One Big Beautiful Bill Act (“OBBBA”)?**

3   **A.**     As a general matter, the OBBBA will not have a material impact on PPL Electric. For  
4           purposes of clarity regarding the relevant provisions of the OBBBA, please see attached  
5           PPL Electric Exhibit AE-2 for a summary of the tax-related provisions of the OBBBA.

6

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

8   **A.**     Yes, it does.

PPL Electric Utilities Corporation  
Consolidated Income Tax Adjustment  
Year Ended December 31, 2024

		2022	2023	2024	Three Year Average
		(a)	(b)	(c)	(d)=((a)+(b)+(c))/3
<b>Non-Regulated Company</b>					
<b>Taxable Losses</b>					
1	CEP Reserves, Inc.	0	(8,398,359)	0	(2,799,453)
2	LG&E and KU Energy LLC	(91,266,009)	(160,237,587)	(253,631,702)	(168,378,433)
3	PP&L Residual Corporation	0	(1,442,134)	(2,137,060)	(1,193,065)
4	PPL Capital Funding, Inc.	(2,007,737)	(576,131)	0	(861,289)
5	PPL Corporation	Pg 2, Line 5	(12,921,275)	0	(14,814,342)
6	PPL Distributed Energy Resources, LLC	Pg 2, Line 9	0	0	0
7	PPL Energy Funding Corporation	Pg 2, Line 13	(33,869,898)	(21,158,837)	(4,808,594)
8	PPL Energy Holdings, LLC		(2,935,533)	(1,345,142)	(25,909,514)
9	PPL Energy Resources, LLC	Pg 2, Line 17	0	0	0
10	PPL Midwest Transmission, LLC		(93,268)	(675,372)	(912,438)
11	PPL Renewables, LLC	Pg 2, Line 21	0	0	0
12	PPL Rhode Island Holdings, LLC	Pg 2, Line 26	(52,620,119)	(95,494,423)	(124,241,303)
13	PPL Safari Holdings, LLC	Pg 2, Line 30	0	0	0
14	PPL Subsidiary Holdings, LLC		(23,787)	(29,472)	(41,846)
15	PPL Technology Ventures, LLC		(1,398,687)	(1,653,746)	(620,099)
16	PPL TransLink, Inc.		(764,156)	(2,170,110)	(416,697)
17	PPL UK Holdings, LLC		(855,499)	0	0
18	The Narragansett Electric Company	Pg 2, Line 35	0	(198,661,220)	(115,806,337)
19	<b>Total Taxable Losses</b>	Sum of Lines 1 thru 18	<u>\$ (198,755,968)</u>	<u>\$ (491,842,532)</u>	<u>\$ (560,047,340)</u>
20	<b>Taxable Income Companies</b>	Pg 2, Line 45	\$ 1,092,983,330	\$ 1,113,146,099	\$ 1,209,558,566
<b>Taxable Income - PA Utilities</b>					
21	PPL Electric Utilities Corporation	Pg 2, Line 50	<u>\$ 328,502,122</u>	<u>\$ 415,543,515</u>	<u>\$ 251,893,034</u>
22	Percent Taxable Income Pa. Utilities to Total Taxable Income Companies (Line 21 / Line 20)				29.1578%
<b>Calculation of Tax Benefit on Consolidated Tax Savings Applicable to PPL Utilities</b>					
23	Adjustment for Consolidated Tax Savings (Line 19 x Line 22)				<u>\$ (121,553,604)</u>
24	Adjustment to Federal Income Taxes (Line 23 * 21%)				<u>\$ (25,526,257)</u>
25	<b>Percent of T&amp;D Taxable Income to Total Taxable Income (D-14, page 2, Line xx, Col 3 / Col 1)</b>				<u>100.0000%</u>
26	Federal Income Tax Benefit (i.e., revenue requirement remaining with PPL Utilities) (Line 24 x Line 25)				<u>\$ (25,526,257)</u>
<b>ACT 40 Requirements</b>					
27	Fifty percent of revenue requirement amount to support reliability or infrastructure capital investments (Line 26 * 50%)				<u>\$ (12,763,129)</u>
28	Fifty percent of revenue requirement amount to support general corporate purposes (Line 26 * 50%)				<u>(12,763,129)</u>
29	One hundred percent of revenue requirement addressed (Line 27 + Line 28 = Line 26)				<u>\$ (25,526,257)</u>



PPL Electric Utilities Corporation  
Consolidated Income Tax Adjustment  
Year Ended December 31, 2024

	<u>2022</u>	<u>2023</u>	<u>2024</u>
1 <b>Taxable (Loss) - PPL Corporation</b>	\$ (22,921,275)	\$ 1,592,177	\$ (33,116,190)
<b>Adjustment for Non-recurring Items:</b>			
2   The Narragansett Electric Company Acquisition Adjustments	\$ 10,000,000	\$ -	\$ -
3   Talen Litigation	\$ -	\$ -	\$ 1,594,440
4   Total adjustments	\$ 10,000,000	\$ -	\$ 1,594,440
5 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ (12,921,275)</u>	<u>\$ 1,592,177</u>	<u>\$ (31,521,750)</u>
6 <b>Taxable (Loss) - PPL Distributed Energy Resources, LLC</b>	\$ (7,373,270)	\$ 72,341,522	\$ -
<b>Adjustment for Non-recurring Items:</b>			
7   Sale of Renewable Business	\$ 7,373,270	\$ (72,341,522)	\$ -
8   Total adjustments	\$ 7,373,270	\$ (72,341,522)	\$ -
9 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
10 <b>Taxable (Loss) - PPL Energy Funding Corporation</b>	\$ (33,869,898)	\$ (144,936,362)	\$ (4,808,594)
<b>Adjustment for Non-recurring Items:</b>			
11   Talen Litigation	\$ -	\$ 123,777,525	\$ -
12   Total adjustments	\$ -	\$ 123,777,525	\$ -
13 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ (33,869,898)</u>	<u>\$ (21,158,837)</u>	<u>\$ (4,808,594)</u>
14 <b>Taxable (Loss) - PPL Energy Resources, LLC</b>	\$ (18,095)	\$ (171,364)	\$ -
<b>Adjustment for Non-recurring Items:</b>			
15   Sale of Renewable Business	\$ 18,095	\$ 171,364	\$ -
16   Total adjustments	\$ 18,095	\$ 171,364	\$ -
17 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
18 <b>Taxable (Loss) - PPL Renewables, LLC</b>	\$ (1,844,332)	\$ 39,140,231	\$ -
<b>Adjustment for Non-recurring Items:</b>			
19   Sale of Renewable Business	\$ 1,844,332	\$ (39,140,231)	\$ -
20   Total adjustments	\$ 1,844,332	\$ (39,140,231)	\$ -
21 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
22 <b>Taxable (Loss) - PPL Rhode Island Holdings, LLC</b>	\$ (164,262,244)	\$ (180,353,118)	\$ (301,602,122)
<b>Adjustment for Non-recurring Items:</b>			
23   The Narragansett Electric Company Acquisition Adjustments	\$ 2,500,000	\$ -	\$ -
24   The Narragansett Electric Company Integration Adjustments	\$ 109,142,125	\$ 84,858,695	\$ 177,360,819
25   Total adjustments	\$ 111,642,125	\$ 84,858,695	\$ 177,360,819
26 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ (52,620,119)</u>	<u>\$ (95,494,423)</u>	<u>\$ (124,241,303)</u>
27 <b>Taxable (Loss) - PPL Safari Holdings, LLC</b>	\$ (41,730,443)	\$ -	\$ -
<b>Adjustment for Non-recurring Items:</b>			
28   Sale of Renewable Business	\$ 41,730,443	\$ -	\$ -
29   Total adjustments	\$ 41,730,443	\$ -	\$ -
30 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
31 <b>Taxable (Loss) - The Narragansett Electric Company</b>	\$ (37,674,563)	\$ (268,467,100)	\$ (174,701,024)
<b>Adjustment for Non-recurring Items:</b>			
32   The Narragansett Electric Company Acquisition Adjustments	\$ 92,191,935	\$ -	\$ -
33   The Narragansett Electric Company Integration Adjustments	\$ 44,913,401	\$ 69,805,880	\$ 58,894,687
34   Total adjustments	\$ 137,105,336	\$ 69,805,880	\$ 58,894,687
35 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ 99,430,773</u>	<u>\$ (198,661,220)</u>	<u>\$ (115,806,337)</u>

PPL Electric Utilities Corporation  
Consolidated Income Tax Adjustment  
Year Ended December 31, 2024

	<b>2022</b>	<b>2023</b>	<b>2024</b>
36 <b>Taxable (Loss) - PPL Corporation Consolidated</b>	\$ 584,513,761	\$ 414,612,372	\$ 394,408,262
37 <b>Less: Taxable Loss Companies on Page 1, Line 19</b>	\$ 198,755,968	\$ 491,842,532	\$ 560,047,340
38 <b>Taxable Income Companies</b>	\$ 783,269,729	\$ 906,454,904	\$ 954,455,602
<b>Adjustment for Non-recurring Items:</b>			
39 Sale of Renewable Business	\$ 50,966,140	\$ (111,310,389)	\$ -
40 The Narragansett Electric Company Acquisition Adjustments	\$ 104,691,935	\$ -	\$ -
41 The Narragansett Electric Company Integration Adjustments	\$ 154,055,526	\$ 160,107,090	\$ 236,255,506
42 Talen Litigation	\$ -	\$ 123,777,525	\$ 1,594,440
43 PPL Electric Billing Issue	\$ -	\$ 34,116,969	\$ 17,253,018
44 Total adjustments	\$ 309,713,601	\$ 206,691,194	\$ 255,102,963
45 <b>Adjusted Taxable Income Companies on Page 1, Line 20</b>	<u>\$ 1,092,983,330</u>	<u>\$ 1,113,146,099</u>	<u>\$ 1,209,558,566</u>
46 <b>Taxable (Loss) - PPL Electric Utilities Corporation</b>	\$ 328,501,852	\$ 381,426,274	\$ 234,639,741
<b>Adjustment for Non-regulated LLC's disregarded for income tax purposes:</b>			
47 CEP Commerce, LLC	\$ 270	\$ 273	\$ 275
<b>Adjustment for Non-recurring items:</b>			
48 PPL Electric Billing Issue	\$ -	\$ 34,116,969	\$ 17,253,018
49 Total Adjustments	\$ 270	\$ 34,117,242	\$ 17,253,293
50 <b>Adjusted Taxable Income/(Loss)</b>	<u>\$ 328,502,122</u>	<u>\$ 415,543,515</u>	<u>\$ 251,893,034</u>

**The One Big Beautiful Bill Act ("OBBBA" H.R. 1) Analysis**

All references to sections are to sections of the Internal Revenue Code of 1986, as amended, unless otherwise indicated

OBBBA Section	OBBBA Section Title	Corresponding IRC Section	IRC Description	Company Analysis
Sec. 70301	Full expensing for certain business property.	168	Bonus depreciation	Regulated utilities are not permitted to take bonus depreciation. Section 168(k)(9)(A) provides "any property which is primarily used in a trade or business described in clause (iv) of Section 163(j)(7)(A)" does not constitute qualified property for the bonus depreciation deduction. Section 163(j)(7)(A)(iv) provides that the term "trade or business" does not include public utilities.
Sec. 70302	Full expensing of domestic research and experimental expenditures.	174A	Research and experimental expenditures	Under The OBBBA, research and experimentation costs can now be expensed immediately for tax years beginning after 12/31/2024. Additionally, taxpayers are required to reduce domestic research or experimental expenditures by the amount of any research credit under section 41; alternatively, the taxpayer may elect to claim a reduced research credit. The Company is evaluating the changes to the applicable statute, but does not anticipate material impacts.
Sec. 70303	Modification of limitation on business interest.	163	Business interest limitation	The Company is exempt from the limitation as a regulated business pursuant to section 163(j)(7)(A)(iv), as enacted by the Tax Cuts and Jobs Act of 2017.
Sec. 70304	Extension and enhancement of paid family and medical leave credit.	45S	FMLA tax credit	In general, the OBBBA makes the family and medical leave credit permanent and lowers the employee eligibility threshold from 12 months to 6 six months. The Company is evaluating the changes to the applicable statute, but does not anticipate material impacts.
Sec. 70305	Exceptions from limitations on deduction for business meals.	274	Business meals	This section amends the limitation on the deductibility of meals provided at the convenience of an employer under Code section 274(o). Code section 274(o) refers to the sell of food and beverages to customers and also providing meals to their employees (e.g., restaurants), and for fishing vessels. Not applicable to the Company.
Sec. 70306	Increased dollar limitations for expensing of certain depreciable business assets.	179	Expensing depreciable business assets	The Company exceeds the dollar limitations of section 179(b)(1) and therefore cannot avail itself of section 179. No impact to the Company.
Sec. 70307	Special depreciation allowance for qualified production property.	168	Depreciation on qualified production property	No impact to current Company practice. The Company does not qualify under this provision because, among other things, it does not produce agricultural production and chemical products under section 168(n)(2)(E).
Sec. 70308	Enhancement of advanced manufacturing investment credit.	48D	Advanced manufacturing investment credit	The OBBBA provides for a 35% credit for qualified investments in an advanced manufacturing facility that produces semiconductors or semiconductor manufacturing. Not applicable to the Company.
Sec. 70341	Coordination of business interest limitation with interest capitalization provisions.	163	Business interest limitation	The Company is exempt from business interest limitation as a regulated business pursuant to section 163(j)(7)(A)(iv), as enacted by the Tax Cuts and Jobs Act of 2017. The Company does follow the capitalized interest provisions under section 263A, among others. Accordingly, the Company is not impacted from this change.

OBBBA Section	OBBBA Section Title	Corresponding IRC Section	IRC Description	Company Analysis
Sec. 70342	Definition of adjusted taxable income for business interest limitation.	163	Business interest limitation	The Company is exempt from business interest limitation as a regulated business pursuant to section 163(j)(7)(A)(iv), as enacted by the Tax Cuts and Jobs Act of 2017. Additionally, the Company has no foreign operations. Accordingly, the Company is not impacted from this change.
Sec. 70501	Termination of previously-owned clean vehicle credit.	25E	Previously-owned clean vehicle credit	The OBBBA terminates the section 25E credit for vehicles acquired after September 30, 2025. No impact to the Company.
Sec. 70502	Termination of clean vehicle credit.	30D	Clean vehicle credit	The OBBBA terminates the section 30D credit for vehicles acquired after September 30, 2025. No impact to the Company.
Sec. 70503	Termination of qualified commercial clean vehicles credit.	45W	Qualified commercial clean vehicles credit	The OBBBA terminates the section 45W credit for vehicles acquired after September 30, 2025. No impact to the Company.
Sec. 70504	Termination of alternative fuel vehicle refueling property credit.	30C	Alternative fuel vehicle refueling property credit	The OBBBA terminates the section 30C credit for refueling equipment placed in service after June 30, 2026. No impact to the Company.
Sec. 70507	Termination of energy efficient commercial buildings deduction.	179D	Efficient commercial buildings deduction	The OBBBA terminates the section 179D deduction for certain energy efficient buildings beginning construction after June 30, 2026. No impact to the Company.
Sec. 70509	Termination of cost recovery for energy property.	168	Cost recovery for energy property	The OBBBA terminates the five-year accelerated depreciation for energy property where construction begins after December 31, 2024. However, energy property that qualifies for section 45Y PTC or section 48E ITC will continue to be treated as five-year MACRS property under section 168(a). The Company does not anticipate any impacts based on anticipated timelines of contemplated energy property construction.
Sec. 70510	Modifications of zero-emission nuclear power production credit.	45U	Nuclear power production credit	The OBBBA applies Foreign Entity of Concern (FEOC) restrictions for specified foreign entities for taxable years beginning after enactment. Not applicable as the Company does not qualify for 45U credits.
Sec. 70511	Termination of clean hydrogen production credit.	45V	Clean hydrogen production credit	The OBBBA terminates the section 45V credit for projects beginning construction after December 31, 2027. No impact to the Company.
Sec. 70512	Termination and restrictions on clean electricity production credit.	45Y	Clean electricity production credit	The OBBBA terminates the production tax credit for wind and solar facilities that are placed in service after December 31, 2027. The termination does not apply to solar and wind facilities where construction begins within 12 months after the date of enactment. The Company does not anticipate any impacts based on anticipated timelines of contemplated energy property construction.
Sec. 70513	Termination and restrictions on clean electricity investment credit.	48E	Clean electricity investment credit	The OBBBA terminates the investment tax credit for wind and solar facilities that are placed in service after December 31, 2027. The termination does not apply to solar and wind facilities where construction begins within 12 months after the date of enactment. The Company does not anticipate any impacts based on anticipated timelines of contemplated energy property construction.
Sec. 70514	Phase-out and restrictions on advanced manufacturing production credit.	45X	Advanced manufacturing production credit	The OBBBA terminates the 45X credit for certain components beginning in years 2028 and beyond. Not applicable as the Company does not qualify for 45X credits.
Sec. 70515	Restriction on the extension of advanced energy project credit program.	48C	Advanced energy project credit	The OBBBA restricts funds returned from forfeited section 48C credits from being later reissued. The Company does not qualify for 45C credits.

OBBBA Section	OBBBA Section Title	Corresponding IRC Section	IRC Description	Company Analysis
Sec. 70521	Extension and modification of clean fuel production credit.	45Z	Clean fuel production credit	This credit relates to certain transportation fuel. The OBBBA extends the period in which this credit can be claimed to December 31, 2029. The Company does not qualify for 45Z credits.
Sec. 70522	Restrictions on carbon oxide sequestration credit.	45Q	Carbon oxide sequestration credit	The OBBBA equalizes the credit values for carbon oxide disposed in secure geological storage and that which is used as a tertiary injectant and disallows the credit for any taxable year after the date of enactment in which the taxpayer is treated as either a specified foreign entity or foreign-influenced entity. The Company does not qualify for 45Q credits.
Sec. 70523	Intangible drilling and development costs taken into account for purposes of computing adjusted financial statement income.	56A	Intangible drilling costs	The OBBBA permits a deduction for purposes of the 15% corporate alternative minimum tax for intangible drilling and development costs for oil, gas, and geothermal wells for taxable years beginning after December 31, 2025. Not applicable to the Company.
Sec. 70524	Income from hydrogen storage, carbon capture, advanced nuclear, hydropower, and geothermal energy added to qualifying income of certain publicly traded partnerships.	7704	Definitions	Not applicable as the Company is not a publicly traded partnership.
Sec. 70603	Excessive employee remuneration from controlled group members and allocation of deductions.	162	Excessive employee remuneration	The OBBBA adds an entity aggregation rule in section 162(m) and provides that remuneration paid to a specified covered employee by any member of the controlled group is aggregated to determine the loss of deduction for amounts over \$1 million. No impact to current Company practice.
Sec. 70426	1-percent floor on deduction of charitable contributions made by corporations.	170	Charitable contribution deduction	Beginning in 2026, the OBBBA provides that corporate taxpayers may claim a charitable deduction for any taxable year only to the extent that the aggregate of total contributions exceeds 1% of the corporation's taxable income and does not exceed 10% of its taxable income. The Company is evaluating the impact of the statute, but does not anticipate material impacts.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 13**

**Direct Testimony of Katelyn Arnold**

**Topics:   Cash Working Capital  
          Roll-in of Riders  
          CER Elimination  
          Uncollectible Accounts, Purchase of Receivables Program, and  
          Merchant Function Charge  
          Storm Damage Expense Rider  
          Revenue Forecast**

**Dated: September 30, 2025**

## Direct Testimony of Katelyn Arnold

1   **I.    INTRODUCTION**

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

3   A.    My name is Katelyn Arnold. My business address is 827 Hausman Road, Allentown,  
4       PA 18104-9392.

5

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

7   A.    I am employed by PPL Services Corporation (“PPL Services”), a subsidiary of PPL  
8       Corporation and an affiliate of PPL Electric Utilities Corporation (“PPL Electric” or the  
9       “Company”) as Manager – Regulatory Strategy & Rates.

10

11   **Q.    What are your responsibilities as Manager – Regulatory Strategy & Rates?**

12   A.    I am responsible for developing, monitoring, and communicating PPL Electric’s  
13       positions on and responses to regulatory, legislative, and public policy issues at both the  
14       state and federal level; primarily, in the areas of industry structure, retail and wholesale  
15       markets, rates, customer impacts, and other related topics. I am also responsible for the  
16       development and execution of rate-related revenue analysis and reporting, including  
17       auditing controls and requirements, rate compliance, rate case success for the regulated  
18       electric business, and ad-hoc analysis to optimize business planning.

19

20   **Q.    What is your educational background?**

21   A.    I graduated from Lafayette College in 2017 with a Bachelor of Arts in Government &  
22       Law and Economics. I graduated from Lehigh University in 2022 with a Master of  
23       Business Administration degree.

## Direct Testimony of Katelyn Arnold

1

2 **Q. Please describe your professional experience.**

3 A. In 2018, I was employed by PPL Services as a Financial Analyst in the Treasury  
4 Department where I supported the Accounts Payable function. In 2020, I moved into a  
5 Regulatory Policy Specialist role in PPL Services. In 2022, I was promoted to Sr.  
6 Regulatory Policy Specialist. In 2023, I assumed the role of Manager – Regulatory  
7 Strategy & Compliance, and in July 2024 my role was expanded to Manager –  
8 Regulatory Strategy & Rates, which is my current role.

9

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

11 A. I will testify about the Company's cash working capital, the roll-in of various riders into  
12 base rates (including the revenues and plant associated with the Distribution System  
13 Improvement Charge ("DSIC")), the elimination of the Company's Competitive  
14 Enhancement Rider ("CER"), the Company's uncollectible accounts (including their  
15 relation to the Purchase of Receivables ("POR") Program and Merchant Function  
16 Charge ("MFC")), the Company's modifications to its Storm Damage Expense Rider  
17 ("SDER"), and the Company's revenue forecast.

18

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

20 A. Yes, I am sponsoring Exhibit KEA 1.

21



## Direct Testimony of Katelyn Arnold

1   **Q.    Are you sponsoring any schedules in this proceeding?**

2    A.    Yes. I am sponsoring filing requirements I-A-3, and II-B-4 and co-sponsoring filing  
3       requirement IV-B. I am also sponsoring or co-sponsoring Schedules C-4, D-8, D-9, and  
4       D-13 in Exhibits Historic 1, Future 1, and Fully Projected Future 1.

5

6   **II.    CASH WORKING CAPITAL**

7   **Q.    Schedules C-4 of Exhibits Historic 1, Future 1, and Fully Projected Future 1 show**  
8       **details of PPL Electric's claim for cash working capital. Would you explain these**  
9       **schedules?**

10   A.    Schedules C-4 of Exhibits Historic 1, Future 1 and Fully Projected Future 1 are  
11       computations of PPL Electric's average investment in cash working capital. There are  
12       four major components in this computation: cash working capital required for operation  
13       and maintenance ("O&M") expenses; funds invested in prepayments; an adjustment for  
14       accrued taxes and an adjustment for interest payments.

15

16   **Q.    Please explain these four components.**

17   A.    Page 2 of Schedules C-4 shows the first component, which is cash working capital  
18       required for O&M expenses. There are two components to this calculation: revenue lag  
19       and expense lag. With respect to the revenue lag, PPL Electric bills its customers once  
20       every month, but the due date for payment varies between 15 and 30 days from the  
21       billing date. On this basis, there is a considerable span of days between the time  
22       electricity is furnished to a customer and the time the customer pays for such electricity.  
23       This span commonly called the revenue lag, averages 36 days for customers with 15-

## Direct Testimony of Katelyn Arnold

1 day due dates, 59 days for customers with 20-day due dates, and 42 days for customers  
2 with 30-day due dates. The average lag in receipt of revenues from all these sources is  
3 47.8 days on a dollar-weighted basis.

4 With respect to the expense lag, in most instances, PPL Electric must pay its  
5 bills for payroll, employee benefits, support group costs and other operating expenses  
6 prior to the time it is able to collect the amount due for the service giving rise to these  
7 expenses. PPL Electric has examined its records to determine, as to the major categories  
8 of expense, the average span of days between the time an expense is incurred and the  
9 time it is paid. On page 2 of Schedule C-4 of Exhibit Historic 1, the average span of  
10 days for major categories of expense is shown. This lag ranges from 12 days to 67 days  
11 for various types of costs. The overall average for all expenses is 42.6 days. Thus, the  
12 average net lag between the payment of expenses and the receipt of the related revenue  
13 is 5.2 days (47.8 days less 42.6 days). To cover its expenses and continue to conduct  
14 its business during this time lag, PPL Electric must provide a cash investment, which is  
15 the first component of its cash working capital claim.

16 The second major component of cash working capital is funds invested in  
17 prepayments, which the Company uses to pay for an expense in advance. This amount  
18 is shown on page 3 of Schedules C-4. In conducting its electric business, PPL Electric  
19 must pay certain costs prior to the time such items are properly charged to expense for  
20 accounting and ratemaking purposes. For example, the Commission's annual  
21 assessment must be prepaid but is expensed monthly over the period to which it applies.  
22 Costs of this nature initially are recorded in FERC Account 165, Prepayments, and  
23 subsequently are charged to expense from this account.

## Direct Testimony of Katelyn Arnold

1           The claim for prepaid expenses is based on the 13-month average of the various  
2 items included in Account 165. This amount has been claimed as a component of cash  
3 working capital for each of the three test years presented in this proceeding.

4           The third component of cash working capital is the adjustment for accrued taxes,  
5 which is shown in detail on page 4 of Schedules C-4. In the case of federal income tax,  
6 estimated payments must be made on April, June, September and December 15 of the  
7 year to which the tax is applicable. Because revenues are collected from customers  
8 monthly, these funds are temporarily available for payment of other costs. PPL  
9 Electric's computations indicate that funds available from these taxes average 11.62%  
10 of the federal income tax due.

11           Presently, the Pennsylvania income tax has the following pattern of required  
12 estimated payments:

- 13           • 25% on March 15
- 14           • 25% on June 15
- 15           • 25% on September 15
- 16           • 25% on December 15

17 PPL Electric's computations indicate that the funds available from these taxes average  
18 9.54% of the Pennsylvania income tax due.

19           The Pennsylvania gross receipts tax must be paid on an estimated basis by  
20 March 15 of the year to which the tax is applicable. Because revenue is collected from  
21 customers monthly, funds must be provided by investors to pay these taxes prior to the  
22 collection of revenues from customers. PPL Electric's computations indicate that the  
23 funds which must be provided for this purpose average 27.96% of the tax due. This

## Direct Testimony of Katelyn Arnold

1 adjustment is based on the total Pennsylvania gross receipts tax which must be paid at  
2 the 59 mill rate actually in effect.

3 The Pennsylvania Public Utility Realty Tax must be paid on an estimated basis  
4 by May 1 of the year to which the tax is applicable. Because revenue is collected from  
5 customers monthly, funds must be provided by investors to pay these taxes prior to the  
6 collection from customers. PPL Electric's computations indicate that funds which must  
7 be provided for this purpose average 7.13% of the tax due.

8 The net effect of these various accrued tax adjustments is an increase in PPL  
9 Electric's cash working capital requirement as shown on page 4 of Schedules C-4.

10 The fourth component of cash working capital is an offsetting adjustment for the  
11 funds applicable to debt interest payments, which are shown on page 5 of Schedules C-  
12 4. PPL Electric "theoretically" has unrestricted use of these funds from the time of the  
13 monthly collection from customers until the payment of interest and on a semi-annual  
14 or quarterly basis. PPL Electric does not agree with the appropriateness of such a  
15 reduction to the rate base. However, this adjustment has been made to facilitate the  
16 adjudication of this filing and in compliance with the Commission's current policy.

17  
18 **Q. Has PPL Electric changed the methodology that it uses to calculate its claim for**  
19 **cash working capital from that used in previous base rate proceedings?**

20 **A.** No. PPL Electric has not changed the methodology used to calculate its claim for cash  
21 working capital. My understanding is that the Company has used the same methodology  
22 for more than 30 years, and this Commission has approved the Company's use of this  
23 methodology in numerous base rate proceedings during that period.

## Direct Testimony of Katelyn Arnold

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### **III. ROLL-IN OF RIDER MECHANISMS**

**Q. What rider mechanisms does the Company propose rolling into base rates?**

A. First, the Company proposes to roll in the Tax Cuts and Jobs Act (“TCJA”) Rider into base rates. The new corporate tax rate established by the TCJA is reflected in the Company’s base rates in this proceeding, so the rider mechanism is no longer necessary. Additionally, the Company is eliminating the TCJA Rider from its Retail Tariff as of June 30, 2026, as required by the Commission’s Orders dated May 17, 2018, at Docket No. R 2018 3000775, and at Docket M-2018-2641242.

Second, regarding the Smart Meter Rider – Phase 2 (“SMR-2”), PPL Electric proposes to roll the remaining net rate base for the Smart Meter Pilot Programs into base rates, and to close the existing SMR tariff provisions effective June 30, 2026. The Company’s smart meter technology essentially has been fully deployed, so the rider mechanisms are no longer necessary.

Third, the Company has included the costs of its existing DSIC in base rates, as required by Section 1358(b) of the Public Utility Code. The Company is proposing to include the capital investment, associated depreciation, and tax effects for the DSIC in base rates. The Company will then reset its DSIC to 0% upon implementation of new base rates. As a result, the cap for the DSIC will be reset to 5% instead of the 7.5% approved by the Commission in PPL Electric’s recent DSIC Cap Waiver proceeding.<sup>1</sup>

---

<sup>1</sup> See *Petition of PPL Electric Utilities Corp. for a Waiver of the Distribution System Improvement Charge Cap of 5% of Billed Revenues*, Docket Nos. P-2024-3048732, et al. (Order entered Feb. 28, 2025).

## Direct Testimony of Katelyn Arnold

### IV. ELIMINATION OF COMPETITIVE ENHANCEMENT RIDER (CER)

#### Q. What is the CER?

A. The CER was designed to recover the annual costs associated with the Company's competitive retail electricity market enhancement initiatives and related consumer education programs. Currently, the CER charge is negative \$0.01 through December 31, 2025.

#### Q. What is the Company proposing with respect to the CER?

A. PPL Electric proposes to eliminate the CER from its tariff. Currently, the only costs being recovered through the CER are the costs associated with administering the Eligible Customer List ("ECL"), which will now be updated every five years.<sup>2</sup> As such, PPL Electric proposes to eliminate the CER and, instead, to rely on base rates to recover the costs of administering the ECL. As seen in Schedules D-8 in Exhibits Historic 1, Future 1, and Fully Projected Future 1, the Company has made pro forma adjustments to reflect the recovery of these costs through base rates as opposed to the CER, which is being eliminated.

### V. UNCOLLECTIBLE ACCOUNTS, PURCHASE OF RECEIVABLES (POR) PROGRAM, AND MERCHANT FUNCTION CHARGE (MFC)

#### Q. What is the Company's claim for customer uncollectible accounts expense in this proceeding?

A. The Company's claim for uncollectible expense for the fully projected future test year

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<sup>2</sup> See *Guidelines for Eligible Customer Lists*, Docket No. M-2010-2183412 (Order entered Mar. 13, 2025).

## Direct Testimony of Katelyn Arnold

1 (“FPFTY”) is \$38 million. The claimed bad debt write-off percentage is 1.80% for  
2 residential customers, 0.26% for small commercial & industrial (“C&I”) customers and  
3 0.30% for large C&I customers. The calculation of the Company’s claim is set forth in  
4 Exhibit KEA 1, which is attached to this testimony.

5  
6 **Q. Is PPL Electric proposing to use these percentages for the MFC and POR**  
7 **Program?**

8 A. Yes. The Company proposes to use a value of 1.80% for residential POR and MFC and  
9 a value of 0.26% for small commercial & industrial POR and MFC.

### 10 11 **VI. STORM DAMAGE EXPENSE RIDER (SDER)**

12 **Q. Please describe the Company’s SDER.**

13 A. Approved as part of the Company’s 2015 Rate Case, the SDER is a Section 1307(a)  
14 automatic adjustment rider that recovers only actual, experienced storm damage  
15 operating and maintenance expenses. These storm damage expenses are appropriate for  
16 recovery through this surcharge mechanism because they are easily identifiable and  
17 outside the Company’s control. The SDER currently applies only to expenses from  
18 Commission-reportable storms.<sup>3</sup> The storm damage expenses from non-reportable  
19 storms are currently recovered through base rates and not through the SDER. The  
20 SDER recognizes that base rates currently provide for recovery of \$14.7 million  
21 annually in storm damage expenses for reportable storms. The SDER recovers from

---

<sup>3</sup> Reportable storms are those that cause unscheduled service interruptions in a single event to 2,500 or more customers for six or more consecutive hours; non-reportable storms are all other storms. See 52 Pa. Code § 67.1(b).

## Direct Testimony of Katelyn Arnold

1 customers or refund to customers, as appropriate, only applicable expenses from  
2 reportable storms that are less than or greater than \$14.7 million recovered annually  
3 through base rates. Of note, there is another \$5.3 million in current base distribution  
4 rates associated with the amortization of extraordinary storms as approved in the  
5 Company's 2015 distribution base rate case. Combined, this reflects the approximately  
6 \$20 million used as the baseline in the annual SDER rate filing.

7 Storm damage expenses consist of those expenses incurred to remediate storm  
8 damage to the Company's distribution system, including, but not limited to: (1)  
9 overtime and premium wages of the Company's employees; (2) costs of outside service  
10 providers and mutual aid utilities employed by the Company during storm restoration  
11 efforts; (3) materials and supplies used to repair or replace damaged property; (4)  
12 overhead charges associated with storm damage expenses, including wages and  
13 benefits; (5) transportation; (6) purchasing and stores charges; (7) expediting expenses  
14 for the reasonable and extra costs to make temporary repairs and to expedite the  
15 permanent repair or replacement of damaged property; and (8) expenses of providing  
16 services to customers whose electric service has been interrupted. Straight-time wages  
17 and benefits and expenses reimbursed by others are excluded from the SDER, and  
18 capitalized costs of repairing or replacing damaged facilities are excluded from the  
19 SDER.

20 Under the Commission-approved SDER, expenses from major storm events are  
21 recovered over three years, with interest. The purpose of this extended recovery period  
22 is to improve the stability of rates under the SDER. Otherwise, the SDER could vary,  
23 from time to time, especially following major storm events such as the Winter Storms



## Direct Testimony of Katelyn Arnold

1 Riley & Quinn in March 2018.

2 Furthermore, the SDER caps the total annual revenues collected under the SDER  
3 at an amount not to exceed 3% of the total intrastate operating revenues billed to  
4 customers, exclusive of amounts recovered under the State Tax Adjustment Surcharge  
5 (“STAS”).  
6

7 **Q. Is the Company proposing to change the amount of storm damage expenses**  
8 **associated with Commission-reportable storms that are recovered through base**  
9 **rates?**

10 A. Yes. The current, assumed level of \$14.7 million in storm damage expenses for  
11 reportable storms is insufficient based on the Company’s experience. As explained by  
12 PPL Electric witness Lookup (PPL Electric St. No. 16), the Company has been  
13 experiencing Commission-reportable storms in greater number, severity, and frequency.  
14 As a result, an increasing amount of storm damage expenses associated with  
15 Commission-reportable storms have been recovered through the SDER. Because the  
16 SDER is capped at 3% of total intrastate annual revenues, PPL Electric must update the  
17 base level of storm damage expenses associated with Commission-reportable storms, or  
18 else the Company may lose the opportunity to timely recover those associated costs. As  
19 such, PPL Electric proposes to increase the amount of storm damage expenses in its  
20 base distribution rates associated with Commission-reportable storms to \$32 million.  
21

22 **Q. Has the Company exceeded this 3% cap in the past?**

23 A. Yes, the Company exceeded the 3% cap in 2024 for the 2025 rate period. As a result,

## Direct Testimony of Katelyn Arnold

1 PPL Electric recorded a regulatory asset totaling \$11,336,169.67 for SDER-eligible  
2 storm costs in excess of the cap and is requesting recovery of that regulatory asset in  
3 this proceeding as shown in Schedules D-9 of Exhibits Historic 1, Future 1, and Fully  
4 Projected Future 1. PPL Electric is on track to exceed the 3% cap again in 2025 for the  
5 2026 rate period.

6  
7 **Q. Are there any other proposals that the Company is making with respect to the**  
8 **SDER?**

9 A. Yes. PPL Electric proposes to update the SDER such that the mechanism recovers from  
10 customers or refund to customers, as appropriate, only applicable expenses from non-  
11 reportable storms that are less than or greater than \$10.5 million that are proposed to be  
12 recovered annually through base rates. In that respect, the Company would treat the  
13 storm damage expenses associated with non-reportable storms similarly to the costs  
14 associated with reportable storms.

15  
16 **Q. Why is this proposal reasonable and appropriate?**

17 A. There are several reasons to support the Company's request. First, as explained by PPL  
18 Electric witness Lookup (PPL Electric St. No. 16), the Company is experiencing non-  
19 reportable storms in greater number, severity, and frequency. Although that experience  
20 and data supports an increased amount of storm damage expenses that should be  
21 recovered through base rates, they also justify a treatment of non-reportable storms  
22 similar to reportable storms. Critically, these storm damage expenses are easily  
23 identifiable and outside the Company's control, as are the expenses associated with

## Direct Testimony of Katelyn Arnold

1 reportable storms.

2  
3 **Q. Why does the Company believe that this approach for the recovery of storm**  
4 **damage expenses associated with reportable storms and non-reportable storms is**  
5 **fair?**

6 A. An important benefit of the SDER is that it is designed to recover only actual incurred  
7 storm costs, and if the Company has not incurred the level of storm costs recovered  
8 through base rates, it will refund, with interest, the difference to customers in a  
9 subsequent period. The amount of eligible storm damage expenses recovered through  
10 the SDER is based on actual storm damage expenses incurred through the 12-month  
11 period of December 1 through November 30 prior to the SDER effective date. Stated  
12 otherwise, the SDER only recovers actual storm damage expense experienced during  
13 the prior year. The SDER will recover from customers or refund to customers, as  
14 appropriate, only applicable expenses from reportable and non-reportable storms that  
15 are less than or greater than eligible storm damage expenses for reportable and non-  
16 reportable recovered annually through base rates. Moreover, by enabling the Company  
17 to timely recover these costs, PPL Electric can help reduce the risk of regulatory lag and  
18 potentially provide opportunities for the Company to optimize its expense budget. Thus,  
19 customers will not be subjected to overpaying for storm costs that are included in base  
20 rates between rate cases, nor will the Company suffer financially at the hand of storms  
21 for which recovery may be delayed for years until its next base rate case.

## Direct Testimony of Katelyn Arnold

1 **Q. How does the Company propose to handle the remaining amortization of major**  
2 **storms?**

3 A. Under the Commission-approved SDER, expenses from major storm events are  
4 recovered over three years, with interest. recent examples, the event that occurred on  
5 February 13, 2024, qualified as an extraordinary storm. The Company deferred a total  
6 of \$12,366,189 for this event and began amortizing the expense in 2025. As of June 30,  
7 2025, there is an unamortized remaining balance of \$10,272,167 from that event.  
8 Additionally, an event on November 21, 2024, qualified as extraordinary and resulted  
9 in expenses of \$20,613,295 plus a remaining accrual amount of \$87,052 for a total of  
10 \$20,700,346. The Company will begin amortizing that balance over three years in the  
11 2026 rate period.

### 12 13 **VII. REVENUE FORECAST**

14 **Q. Please describe the development of the Company's revenue forecast.**

15 A. The revenue forecast is developed by applying the forecast of sales (kWh or KW) by  
16 rate class and the forecasted number of customers by rate class as provided by the Sales  
17 Analysis and Forecasting group and described in the testimony of Mr. Schram (PPL  
18 Electric St. No. 4) to the applicable rate schedule pricing as set forth in PPL Electric's  
19 currently-effective Tariff-Electric PA P.U.C. No. 201 for base distribution rates and to  
20 forecasted rates for distribution riders. Schedule D-3, page 2 in Exhibit Fully Projected  
21 Future 1 provides a breakdown of the revenue forecast for the FPFTY. Schedule D-3,  
22 page 3 in Exhibit Fully Projected Future 1 illustrates the impact of that Company's  
23 proposed rate increase on the revenue forecast for the FPFTY.

## Direct Testimony of Katelyn Arnold

1

2 **Q. Do you believe the forecasted billing determinants for the forecasted test period**  
3 **are a reasonable basis for developing revenue forecasts?**

4 It is my understanding that, based on Mr. Schram's testimony, the sales and load  
5 forecasts consider several factors which influence revenues, including number of  
6 customers, customer demand, and customer kWh. Given that, I believe it is appropriate  
7 to use the billing determinants as a basis for forecasting revenue.

8

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

10 A. Yes, it does.

**PPL Electric Utilities Corporation**

## Projected Write-offs by Customer Class

PPL Electric Exhibit KEA 1

Page 1 of 1

	Projected 7/1/26 to 6/30/27	
Residential		
Total Residential Write-Offs	\$	49,527,936
Total Estimated Residential Revenue <sup>(1)</sup>	\$	2,749,464,155
As a % of Residential Revenue		1.80%
Small C&I		
Total Small C&I Write-Offs	\$	3,921,487
Total Estimated Small C&I Revenue <sup>(1)</sup>	\$	1,481,346,315
As a % of Small C&I Revenue		0.26%
Large C&I		
Total Large C&I Write-Offs	\$	771,063
Total Estimated Large C&I Revenue <sup>(1)</sup>	\$	260,659,058
As a % of Large C&I Revenue		0.30%
Total Write-offs	\$	54,220,485

<sup>(1)</sup> Estimated revenue includes forecasted non-shopping base distribution and rider revenue and a forecast of estimated of shopping dollars received.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 14**

**Direct Testimony of Gregory Olsen**

**Topics:   Retail Tariff  
              Street Light Replacement Program**

**Dated: September 30, 2025**

## Direct Testimony of Gregory Olsen

1    **I.    INTRODUCTION**

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

3    A.    My name is Gregory Olsen, and my business address is 827 Hausman Rd. Allentown,  
4           PA 18101

5

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

7    A.    I am employed by PPL Electric Utilities Corporation (“PPL Electric”), a subsidiary of  
8           PPL Corporation (“PPL Corp.”), as Supervisor – Distribution Interconnections & Tariff  
9           Rules.

10

11   **Q.    What are your responsibilities as Supervisor – Distribution Interconnections &  
12          Tariff Rules?**

13   A.    I am responsible for establishing PPL Electric’s interconnection procedures, enforcing  
14          interconnection standards, interpreting and applying PPL Electric’s Tariff and Rules for  
15          Electric Metering and Service Installations (“REMSI”) for internal and external  
16          stakeholders, run load flow analysis for all new large Distributed Energy Resources  
17          (DER) customers and accurately scope the necessary system reinforcements to maintain  
18          PPL Electric’s high standard of reliability and safety. This role also includes frequent  
19          customer interactions to help facilitate their projects from the start of the interconnection  
20          process, through completion when they are granted Permission to Operate (“PTO”).

21



## Direct Testimony of Gregory Olsen

1    **Q.    What is your educational background?**

2    A.    I have a bachelor's degree in electrical engineering with a focus on power systems from  
3       Drexel University.

4

5    **Q.    Please describe your professional experience.**

6    A.    I have 2 years of experience as a Transmission Protection and Control Engineer where  
7       I gained technical experience developing protection relay settings for capacitor banks,  
8       69 kV facilities, as well as compliance experience leading PPL Electric through a  
9       Reliability First audit. From that position I went to Operations where I became a PPL  
10      Electric Transmission System Operator for roughly 2 years where I monitored the Bulk  
11      Electric System ("BES") stability. My current role is in Distribution Planning described  
12      above.

13

14   **Q.    What is the purpose of your testimony?**

15   A.    My testimony supports the Company's proposed changes to its retail tariff, which are  
16      presented in Original Electric Pa. P.U.C. No. 202 (PPL Electric Exhibit GEO-1) and are  
17      summarized in a prepared list of tariff changes (PPL Electric Exhibit GEO-2). I also  
18      will testify about the Company's Street Light Replacement Program.

19

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

21   A.    Yes, I am sponsoring PPL Electric Exhibits GEO-1 and GEO-2 and co-sponsoring  
22      Exhibit Regs. IV-B.

23

## Direct Testimony of Gregory Olsen

### 1 II. TARIFF CHANGES

2 Q. You stated that you are sponsoring PPL Electric Exhibit GEO-1. Please briefly  
3 describe this document.

4 A. This exhibit contains a copy of Original Electric Pa. P.U.C. No. 202, which is the  
5 updated and proposed version of PPL Electric's retail tariff. Two copies of the retail  
6 tariff are presented in PPL Electric Exhibit GEO-1: (1) a clean version; and (2) a  
7 blackline version, showing all the changes to the Company's current tariff as of  
8 September 2025, in blackline. This retail tariff sets forth the rules and regulations, rate  
9 schedules, and rates applicable to services to end-use customers in the Company's  
10 service territory. Additionally, PPL Electric Exhibit GEO-2 provides a list of proposed  
11 revisions to PPL Electric's current retail tariff.

12  
13 Q. Could you please describe some of the more substantial changes to the retail tariff?

14 A. Many of the changes involve grammatical and typographical edits, pagination changes,  
15 and other minor revisions. Some of the more substantial changes are as follows:

- 16 • Adding a Tariff Definitions section to the retail tariff;
- 17 • Changing Basic Utility Supply Service ("BUSS") terminology to default service;
- 18 • Updating Rule 3 governing line and service extensions;
- 19 • Updating Rule 5's submetering provisions;
- 20 • Revising Rule 6's standby service provisions and eliminating Rule 6A;
- 21 • Eliminating the automatic meter reading fee under Rule 8; Removing the separate  
22 water heating service provisions in Rate Schedule RS;

## Direct Testimony of Gregory Olsen

- 1 • Eliminating the Residential Thermal Storage (Rate Schedule RTS) and moving  
2 customers to residential Rate Schedule RS.
- 3 • Removing the separate space conditioning and water heating service (Rate Schedule  
4 GH-2) provisions in Rate Schedule GS-1.
- 5 • Updating Rate Schedule LP-5 regarding data centers and customer-owned  
6 substations;
- 7 • Updating Generation Supply Charge – 1 (“GSC-1”) and Generation Supply Charge  
8 – 2 (“GSC-2”) to reflect the Company’s proposal to assign customers to those rates  
9 based on their “maximum registered peak load,” as defined in the proposed tariff;
- 10 • Adding the Electric Vehicle (“EV”) Time-of-Use (“TOU”) Charging Rebate  
11 Program Rider;
- 12 • Updating PPL Electric’s Net Metering for Renewable Customer-Generators Rider  
13 to include a deposit requirement for interconnection applications where the  
14 proposed generation facility requires the Company to undertake distribution system  
15 upgrades;
- 16 • Eliminating Smart Meter Rider – Phase 1 (“SMR 1”) and Smart Meter Rider – Phase  
17 2 (“SMR 2”);
- 18 • Eliminating the Tax Cuts and Jobs Act Temporary Surcharge (“TCJA Rider”);
- 19 • Eliminating the Competitive Enhancement Rider (“CER”);
- 20 • Rolling-in and setting to 0% the Distribution System Improvement Charge  
21 (“DSIC”); and
- 22 • Updating the Storm Damage Expense Rider (“SDER”).

## Direct Testimony of Gregory Olsen

1    **Q.    Please explain why the Company is adding a Definitions section to its retail tariff.**

2    A.    Currently, the definitions of various terms used in the Company's retail tariff are  
3    scattered throughout the entire tariff, which can make it difficult to find terms'  
4    definitions easily and, by extension, read and understand the tariff. By housing all the  
5    definitions in a Definitions section at the beginning of the retail tariff, PPL Electric  
6    believes that its tariff will become more reader-friendly and accessible to its customers  
7    and interested stakeholders. Additionally, through the process of compiling all those  
8    definitions into a single Definitions section of the retail tariff, PPL Electric has updated  
9    the definitions of certain terms or added definitions for other terms that were previously  
10    undefined. Those updates and additions are intended to provide more clarity and to  
11    reflect the other tariff changes being proposed by the Company in this proceeding.

12

13   **Q.    Why is the Company changing the BUSS terminology to "default service"?**

14   A.    From the Company's perspective, "default service" is a more commonly used term and  
15   is more easily understood by customers and interested stakeholders. Also, as currently  
16   defined in the Company's retail tariff, BUSS only includes the provision of "electric  
17   capacity and energy" to customers and does not include the provision of transmission  
18   service. Because the generation and transmission service components are included in  
19   default service rates, PPL Electric has updated the tariff to also include "transmission"  
20   in addition to "capacity" and "energy" when referencing the default service provided to  
21   default service customers.

22

## Direct Testimony of Gregory Olsen

1 **Q. Please explain the Company's changes to the tariff rules governing line and service**  
2 **extensions.**

3 A. Currently, the retail tariff provisions governing line and service extensions are spread  
4 across multiple rules, including Rule 4 that governs the supply of service to customers.  
5 In the proposed retail tariff, PPL Electric has reorganized those provisions and housed  
6 them in Rule 3, so that all the relevant line and service extension provisions (with the  
7 exception of the line and service extension provisions for Rate Schedule LP-5 customers  
8 that I describe later in my testimony) are contained within a single retail tariff rule. PPL  
9 Electric believes that this will make the tariff easier to read and apply.

10 In addition, PPL Electric proposes to require that customers record any line  
11 extension guarantees ("LEGs") with their deed. Right now, the Company believes that  
12 its current tariff and contract language can be improved to guarantee that, upon transfer  
13 or sale of property upon which a LEG exists, responsibility for the LEG will pass on to  
14 other entities, tenants, and future property owners. However, the Company's proposed  
15 change will ensure that the contractual obligations under a LEG will be fulfilled by  
16 future entities, tenants, or property owners upon transfer or sale of property upon which  
17 a LEG exists. This is important considering that the Company's current LEG contracts  
18 in total amount to \$3,569,394.80, which amounts to \$781,889.49 per year.

19  
20 **Q. What changes are being made to Rule 5's submetering provisions?**

21 A. In the new Rule 5(F), PPL Electric has, among other things, adjusted the provisions  
22 about submetering, such that the Company can, at its discretion, permit submetering of  
23 electric service at both existing and new service locations when: (1) it is impractical for

## Direct Testimony of Gregory Olsen

1 the Company to separately bill each tenant; (2) each tenant has control of the majority  
2 of their electric energy use; (3) the customer is part of a U.S. Department of Housing  
3 and Urban Development (“HUD”) funding Housing, Assisted Living, Nursing Home  
4 Care Rehabilitation facilities, Student Housing – higher education –  
5 Federal/State/County/City/Municipal/Public Housing; and/or (4) at the Company’s  
6 discretion, it is not beneficial for the Company to meter individual tenants. The latter  
7 two conditions are not a part of the Company’s retail tariff and would provide more  
8 flexibility for the Company to permit submetering when it is reasonable and appropriate.

9  
10 **Q. Please describe the changes being made to Rule 6 regarding standby service.**

11 A. The current retail tariff contains Rule 6 (Auxiliary Service for Non-Qualifying  
12 Facilities) and Rule 6A (Standby Service for Qualifying Facilities). As explained in the  
13 direct testimony of PPL Electric witness Steven Wishart (PPL Electric St. No. 8), the  
14 Company is proposing changes to Rule 6 that would govern standby service and is  
15 proposing to eliminate Rule 6A as a result. For additional details and support for these  
16 changes, please see Mr. Wishart’s direct testimony.

17  
18 **Q. What is the Company proposing with respect to its automatic meter reading fee?**

19 A. Currently, Rule 8(G) of the retail tariff prescribes that “[u]pon customer request, the  
20 Company will secure an in-person meter reading to confirm the accuracy of an  
21 automatic meter reading when a customer disconnects service, or a new service request  
22 is received.” The fee for that meter test is \$30. PPL Electric is proposing to eliminate  
23 that fee. Instead, all meter testing fees will be governed by Rule 8(D), which should

## Direct Testimony of Gregory Olsen

1 simplify the tariff and avoid customer confusion over the applicable meter testing fee.  
2 PPL Electric has installed smart meters across its entire service territory which now  
3 enables the Company to read accurate metering information via the Advanced Metering  
4 Infrastructure (“AMI”) network, eliminating the need for field personnel to visit  
5 customer locations to verify accuracy of metering information.

6  
7 **Q. Please explain the Company’s proposed changes to the separate water heater**  
8 **service provisions in Rate Schedule RS.**

9 A. PPL Electric proposes to remove those provisions from Rate Schedule RS. Under the  
10 current tariff, it states that separate water heating service is available only to service  
11 locations served under this application on and continuously after April 26, 1985. PPL  
12 Electric currently has approximately 100 customers who are receiving this service.  
13 However, it has become administratively burdensome to maintain this separate rate for  
14 that number of customers. Therefore, the Company proposes to remove the separate  
15 water heating service provisions and convert those customers’ separate accounts to  
16 regular Rate Schedule RS.

17  
18 **Q. Please explain the Company’s proposed changes to Rate Schedule RTS.**

19 A. PPL Electric proposes to eliminate Rate Schedule RTS. Under the current tariff, it states  
20 that rate schedule is available only to service locations served under this application  
21 prior to December 31, 1995, and thereafter for the life of the existing thermal storage  
22 units. PPL Electric currently has approximately 11,500 customers who are receiving  
23 this service. However, it has become administratively burdensome to maintain this

## Direct Testimony of Gregory Olsen

1 separate rate for that number of customers. Therefore, the Company proposes to  
2 eliminate Rate Schedule RTS and convert those customers' separate accounts to regular  
3 Rate Schedule RS.

4  
5 **Q. Please explain the Company's proposed changes to the separate meter general**  
6 **space heating service provisions in Rate Schedule GH-2.**

7 A. PPL Electric proposes to remove Rate Schedule GH-2. Under the current tariff, it states  
8 that separate meter space heating service is available only to service locations served  
9 under this application on and continuously after August 21, 1972. PPL Electric  
10 currently has approximately 1,508 customers who are receiving this service. However,  
11 it has become administratively burdensome to maintain this separate rate for that  
12 number of customers. Therefore, the Company proposes to remove the GH-2 rate  
13 schedule and transfer those customers to the regular Rate Schedule GS-1.

14  
15 **Q. Could you please describe the updates to Rate Schedule LP-5 concerning data**  
16 **centers and customer-owned substations?**

17 A. As explained in PPL Electric witness Joseph Lookup's direct testimony (PPL Electric  
18 St. No. 16), the Company is making certain proposals to address large load  
19 interconnections, primarily with data centers, in the Company's service territory. In  
20 particular, the Company is proposing specific line and service extension provisions  
21 applicable to Rate Schedule LP-5 customers. Among other things, those provisions  
22 require the customer to pay all costs associated with line and service extensions to  
23 receive service under Rate Schedule LP-5, except when, in the Company's discretion,



## Direct Testimony of Gregory Olsen

1 it is determined that certain line extensions will provide reliability or other benefits to  
2 the Company's transmission system. Also, the provisions set forth the requirements for  
3 the revenue guarantee agreements that such customers must enter into with PPL  
4 Electric. Lastly, PPL Electric proposes adding a provision that would enable a Rate  
5 Schedule LP-5 customer to request, subject to the Company's discretion, that the  
6 Company construct, own, operate, and/or maintain the customer's transformation  
7 equipment. Collectively, these provisions would provide clear rules for data centers and  
8 other large load interconnections that would receive service under Rate Schedule LP-5,  
9 as explained in more detail in Mr. Lookup's direct testimony.

10  
11 **Q. Please explain the Company's proposed changes to GSC-1 and GSC-2 regarding**  
12 **the assignment of customers based on their maximum registered peak load.**

13 A. The proposed changes to GSC-1 and GSC-2 are necessary to implement the Company's  
14 proposal to assign customers to GSC-1 or GSC-2 based on their maximum registered  
15 peak load. The justifications and details for that proposal can be found in the direct  
16 testimony of PPL Electric witness Castanaro (PPL Electric St. No. 15).

17  
18 **Q. Would you please describe the EV TOU Charging Rebate Program being**  
19 **incorporated into the tariff?**

20 A. The Company is incorporating the terms and conditions of its proposed EV TOU  
21 Charging Rebate Program into its proposed retail tariff. For details about the EV TOU  
22 Charging Rebate Program proposal, please see the direct testimony of PPL Electric  
23 witness James Conrad (PPL Electric St. No. 20).

## Direct Testimony of Gregory Olsen

1

2 **Q. Could you please explain the deposit requirement for certain interconnection**  
3 **applications that the Company proposes to incorporate into the tariff?**

4 A. Yes. In the Net Metering for Customer-Generators Rider, the Company proposes to  
5 incorporate an explicit deposit requirement for interconnection applications, where the  
6 applicant's generation facility would require the Company to upgrade its distribution  
7 system in order to interconnect the facility safely and reliably. Specifically, the  
8 proposed tariff provides in pertinent part:

9 When the Company determines that upgrades to its distribution system are  
10 necessary to interconnect the interconnection applicant's generating facility  
11 safely and reliably, the interconnection applicant shall be required to pay a  
12 deposit in advance of the Company performing final engineering and  
13 construction of the system upgrades. The amount of the deposit is in the  
14 discretion of the Company to ensure timely payment of system upgrade  
15 costs. If the interconnection applicant fails to pay such deposit within the  
16 communicated timeline of the Company's demand for the deposit, the  
17 interconnection applicant's project shall be removed from the  
18 interconnection queue. Unspent portions of the deposit shall be fully  
19 refundable. The interconnection applicant must pay all actual costs of the  
20 system upgrades, including but not limited to, the cost of studies,  
21 engineering, administering the interconnection request, equipment, and  
22 construction costs prior to interconnection of the interconnection  
23 applicant's generating facility. Any deposits paid by the interconnecting  
24 applicant will be credited towards what is owed to the Company in  
25 connection with the interconnection request.

26 (PPL Electric Exhibit GEO-1.)

27

28 **Q. Why is the Company making this proposal?**

29 A. There are two principal reasons. First, PPL Electric seeks to encourage "shovel-ready"  
30 projects in the interconnection queue, that is, projects that are ready to move forward,  
31 through its deposit requirement. In recent years, there has been an influx of Level 3

## Direct Testimony of Gregory Olsen

1 interconnection applications, which require the Company to study the distribution  
2 system upgrades necessary to interconnect the applicants' generation facilities in a safe  
3 and reliable manner. Many of these projects, however, do not move forward for a  
4 variety of reasons, such as the project's loss of financing or its failure to obtain necessary  
5 permits and approvals. The cancellation of projects has had downstream, negative  
6 effects on other applications in the queue, as those projects were waiting on that  
7 application's project to move forward and may have been relying on that application's  
8 project to cover the distribution system upgrade costs.

9 Second, the deposit requirement is designed to protect ratepayers from bearing  
10 unnecessary costs associated with these projects. Specifically, the Company incurs  
11 costs under its Interconnection Impact Review ("IIR") process, where PPL Electric: (1)  
12 models the impact of the proposed project on the Company's distribution system based  
13 on the project's design, location, and size; (2) performs several load flow and power  
14 flow analyses to determine how the distribution system will respond to the project's  
15 interconnection; and (3) based on the results of those analyses, accurately scopes the  
16 system reinforcements, if any, that are required to safely and reliability interconnect the  
17 project. Without a deposit, interconnection applicants would not have to pay toward  
18 those costs and, instead, those costs get passed onto ratepayers. Given that these costs  
19 are being incurred for these specific projects, PPL Electric believes that the  
20 interconnection applicants should pay toward them.

## Direct Testimony of Gregory Olsen

1   **Q.    What changes are being proposed to SMR 1 and SMR 2?**

2    A.    The proposed retail tariff eliminates SMR 1 and SMR 2 for the reasons provided in the  
3       direct testimony of PPL Electric witness Katelyn Arnold (PPL Electric St. No. 13).

4

5   **Q.    What changes are being proposed to the TCJA Temporary Surcharge?**

6    A.    The Company is proposing to eliminate the TCJA Temporary Surcharge Rider (“TCJA  
7       Rider”). The TCJA Rider was implemented to reflect tax savings realized by PPL  
8       Electric arising out of the Tax Cuts and Jobs Act between base rate cases. With this rate  
9       case, the Company is incorporating current tax rates into its revenue requirement, so the  
10      TCJA Rider is no longer needed.

11

12   **Q.    What modifications are being made to the CER?**

13   A.    As explained in PPL Electric witness Arnold’s direct testimony (PPL Electric St. No.  
14      13), the Company is proposing to eliminate the CER. The elimination of the CER is  
15      reflected in the proposed retail tariff. For details on the proposed elimination of the  
16      CER, please see Ms. Arnold’s direct testimony.

17

### 18   **III.    STREET LIGHT REPLACEMENT PROGRAM**

19   **Q.    Please describe the Company’s proposed Street Light Replacement Program.**

20   A.    The Company is proposing a mass conversion of all street and area lights from Mercury  
21      Vapor (“MV”) and High-Pressure Sodium (“H.P.S.”) assets to Light Emitting Diode  
22      (“LED”) assets. The Company is doing so due to the increased cost and significant  
23      decrease in availability of materials to support MV and H.P.S., as well as improving the

## Direct Testimony of Gregory Olsen

1 quality of system assets. These LED conversions will reduce the amount of asset failure,  
2 which in turn will reduce the amount of truck rolls required to replace failed equipment,  
3 leading to a reduction in Operating and Maintenance (“O&M”) expense.

4 There are two ways in which LED conversions will occur. One will involve MV  
5 and H.P.S. customers initiating the process by utilizing an online web portal. The  
6 second will involve the Company proactively converting all remaining MV and H.P.S.  
7 assets. The MV and H.P.S replacements will also be bundled with required pole  
8 replacements to reduce the total cost and maximize efficiency of crews’ time when  
9 possible. The H.P.S. assets will be replaced proactively upon six months’ notice to the  
10 customer if their current SHS contracts are expired.

11 The Company is currently proactively replacing existing Rate Schedule SA  
12 assets containing MV and H.P.S. with LED assets to provide a cleaner and brighter area  
13 light for its customers at no additional charge for conversion. This SA LED equivalent  
14 will lower the customers’ bill when compared to the MV and H.P.S. alternatives.

15  
16 **Q. How will the Company’s proposal with respect to mass replacement of streetlights**  
17 **affect the Company’s street light rate schedules?**

18 A. The removal of the MV and H.P.S. assets will result in an elimination of the SM and  
19 SHS rate schedules. Once the conversion is complete, only three rate schedules will  
20 remain for street and area lighting: (i) SLE, for LED assets; (ii) SE, for customer-owned  
21 assets; and (iii) SA, for area light assets.

## Direct Testimony of Gregory Olsen

1   **Q.    What is the Company's current replacement procedure for MV and H.P.S. lighting**  
2       **assets?**

3    A.    The Company currently has a like-for-like replacement procedure, wherein a failed MV  
4       or H.P.S. asset will not be replaced with an LED asset, but with another MV or H.P.S.  
5       lighting asset. The Company only replaces MV and H.P.S. assets with LED assets on a  
6       per-request basis. Like-for-like spot replacement is an extremely inefficient strategy  
7       compared to proactive group re-lamping due to the amount of time required per  
8       replacement, largely due to the driving time for crews to get on site. Keeping MV and  
9       H.P.S. lighting assets is harmful to the Company due to the increase in cost per  
10      replacement with MV and H.P.S. assets, especially with lower quality of materials  
11      available on the market. The availability of the MV and H.P.S. materials is becoming  
12      increasingly scarce; in fact, it is unlawful to procure MV materials per Energy Policy  
13      Act of 2005 – Section 135 H.R. 6-39. MV and/or H.P.S. also fail considerably more  
14      frequently than LED assets, which cost the Company significantly more O&M annually.

15

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

17    A.    Yes, it does.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 15**

**Direct Testimony of Andrew Castanaro**

**Topics: Maximum Registered Peak Load**

**Dated: September 30, 2025**

## Direct Testimony of Andrew Castanaro

1   **I.    INTRODUCTION**

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

3   A.    My name is Andrew Castanaro. My business address is 827 Hausman Road, Allentown,  
4        Pennsylvania 18104.

5

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

7   A.    I am employed by PPL Services Corporation (“PPL Services”), an affiliate of PPL  
8        Electric Utilities Corporation (“PPL Electric” or the “Company”) that provides services  
9        to PPL Electric, as the Energy Procurement Manager.

10

11   **Q.    What are your responsibilities as Energy Procurement Manager?**

12   A:    My primary responsibilities include managing PPL Electric’s Default Service auctions  
13        and related activities; managing energy contracts and associated credit provisions; and  
14        managing the alternative energy credit (“AEC”) contracts and associated state reporting  
15        obligations. I am also responsible for similar programs in other jurisdictions in which  
16        PPL Electric affiliates operate.

17

18   **Q.    What is your educational background?**

19   A:    I graduated from Columbia University in 2006 with a Bachelor of Arts in Economics.

20

21   **Q.    Please describe your professional experience.**

22   A.    I began my career in 2010 with PPL Services in the Risk Management Department as a  
23        Market Analyst. In 2015, I joined Talen Energy, where I held the same title. In 2016,



## Direct Testimony of Andrew Castanaro

1 I returned to PPL Electric as a Financial Analyst. In 2017, I joined the Financial  
2 Planning & Analysis Department within PPL Services. In 2023, I was promoted to  
3 Manager of Energy Procurement within the Regulatory Affairs Department of PPL  
4 Services, which is the position I currently hold.

5  
6 **Q. What is the purpose of your testimony?**

7 A. I will testify about the Company's proposal to assign default supply customers on the  
8 Generation Supply Charge ("GSC") to Rate GSC-1 and Rate GSC-2 based on their  
9 maximum registered peak load, as defined by the Company's proposed retail tariff  
10 submitted in this proceeding.

11  
12 **Q. Are you sponsoring any exhibits in this proceeding?**

13 A. Yes, I am sponsoring PPL Electric Exhibits AC-1 through AC-3.

### 14 15 **II. MAXIMUM REGISTERED PEAK LOAD**

16 **Q. Why is PPL Electric proposing to change how it classifies customers under GSC-1**  
17 **and GSC-2?**

18 A. When it comes to assigning a GSC rate schedule, accurate customer classification is  
19 essential to ensure that costs are allocated and recovered fairly and that the rate structure  
20 reflects the realities of energy usage and generation patterns. The Company is making  
21 changes to how customers are classified, specifically in response to evolving trends in  
22 net metering installations and their impact on the existing rate classes.

## Direct Testimony of Andrew Castanaro

1           A key driver of this change is the notable increase in “no load” net metering  
2 installations. These projects typically feature generation capacities exceeding 1 MW  
3 and can reach up to the maximum allowed 3 MW. Unlike traditional commercial and  
4 industrial customers, these installations have little or no onsite electric load—meaning  
5 they consume minimal energy from the grid—but they generate large amounts of  
6 electricity, and export significant excess generation back to the system. Under the  
7 current structure, the split between GSC-1 (“Small C&I”) and GSC-2 (“Large C&I”)   
8 customers is determined by a threshold of 100 kW peak demand. Customers with  
9 demand below this limit are categorized as GSC-1. However, no load net metering  
10 installations, despite their substantial generation output, have negligible net demand  
11 and, therefore, fall into the GSC-1 Small C&I category.

12           This classification does not account for the true nature or impact of these  
13 projects. While labeled as “small,” these customer-generators often have infrastructure,  
14 financial investment, and grid impacts more akin to those of Large C&I entities. Under  
15 net metering rules, when these customers generate excess energy and receive  
16 compensation, the costs associated with paying for this excess generation are recovered  
17 from the same customer class as the customer-generator. Currently, this means the costs  
18 are allocated to Small C&I (GSC-1) customers taking default service—even though the  
19 scale and influence of these installations align more closely with Large C&I customers.  
20 This misalignment can result in an unfair distribution of default service costs. Small  
21 C&I customers taking default service end up bearing the financial burden for projects  
22 that, by virtue of their size and output, should be classified as Large C&I. This  
23 undermines the principle of equity in cost recovery and can distort the rate structure for

## Direct Testimony of Andrew Castanaro

1 default service customers in the Small C&I class. The Company is proposing to revise  
2 the definition of “maximum registered peak load” in its tariff to account for not only  
3 peak demand, but also peak export to rectify this misalignment.  
4

5 **Q. Could you please provide background on the “maximum registered peak load” as**  
6 **defined by the Commission’s regulations?**

7 A. Although I am not an attorney, my understanding is that the Commission’s regulations  
8 define “maximum registered peak load” as “[t]he highest level of demand for a  
9 particular customer, based on the PJM Interconnection, LLC, ‘Peak Load Contribution  
10 Standard,’ or its equivalent, and as may be further defined by the [Electric Distribution  
11 Company (‘EDC’)] tariff in a particular service territory.” 52 Pa. Code § 54.182. Based  
12 on this authority, PPL Electric proposes to further define “maximum registered peak  
13 load” in its retail electric service tariff and utilize that new definition for the purpose of  
14 classifying customers into their respective rate schedules.  
15

16 **Q. To your knowledge, are there any other regulatory provisions relevant to the**  
17 **“maximum registered peak load” and its impact on customer classification?**

18 A. Yes. The Commission’s regulations provide:

19 (h) Default service rates may not be adjusted more frequently than on  
20 a quarterly basis for all customer classes with a maximum registered  
21 peak load up to 25 kW, to ensure the recovery of costs reasonably  
22 incurred in acquiring electricity at the least cost to customers over time.  
23 DSPs may propose alternative divisions of customers by maximum  
24 registered peak load to preserve existing customer classes.  
25

26 (i) Default service rates shall be adjusted on a quarterly basis, or more  
27 frequently, for all customer classes with a maximum registered peak  
28 load of 25 kW to 500 kW, to ensure the recovery of costs reasonably

## Direct Testimony of Andrew Castanaro

1 incurred in acquiring electricity at the least cost to customers over time.  
2 DSPs may propose alternative divisions of customers by maximum  
3 registered peak load to preserve existing customer classes.  
4

5 (j) Default service rates shall be adjusted on a monthly basis, or more  
6 frequently, for all customer classes with a registered peak load of equal  
7 to or greater than 500 kW to ensure the recovery of costs reasonably  
8 incurred in acquiring electricity at the least cost to customers over time.  
9 DSPs may propose alternative divisions of customers by registered  
10 peak load to preserve existing customer classes.  
11

12 52. Pa. Code § 54.187(h)-(j).  
13

14 **Q. What is the Company proposing with respect to “maximum registered peak load”?**

15 A. In its proposed retail tariff filed in this proceeding (PPL Electric Exhibit GEO-1),  
16 “maximum registered peak load” is defined as “a customer’s net demand contribution  
17 impact to the Company’s default service procurement activity, as determined upon the  
18 net power flow from or into the Company’s distribution system.” The maximum  
19 registered peak load used to assign customers to their applicable rate schedule will be  
20 the customer’s highest maximum registered peak load (kW) in the most recent 12-month  
21 period ending September 30. For new customers without a 12-month billing history,  
22 the maximum registered peak load shall be based on the Company’s estimate using  
23 factors such as, but not limited to, similarly equipped buildings, and similarly utilized  
24 buildings and square footage. As related to customer-generators, this estimate shall also  
25 be inclusive of the nameplate capacity of the generation system.  
26

27 **Q. Why is the Company making this proposal?**

28 A. PPL Electric is projecting a substantial increase in the number of customer-generators  
29 participating in net metering who do not have independent load to offset their electric

## Direct Testimony of Andrew Castanaro

1 usage. As a result, those customer-generators by design produce excess generation that  
2 is banked until the end of the PJM Planning Year on May 31, at which point their banked  
3 generation is cashed out at the Price-to-Compare. The costs associated with the net  
4 metering credits and cash-outs are recovered from the default service customers in the  
5 customer-generators' respective customer classes.

6 The Company's currently effective tariff, which was last updated in the 2015  
7 Rate Case, does not classify customers based on their maximum registered peak load as  
8 set forth in the proposed retail tariff. Instead, for example, a small commercial  
9 customer's demand is determined based on their load independent of the nameplate  
10 capacity of any behind-the-meter generation. This current practice fails to reflect the  
11 stress that the behind-the-meter generation puts on PPL Electric's distribution system.  
12 Additionally, the current classification results in non-net metering Small C&I default  
13 service customers disproportionately subsidizing the annual cash-outs of customer-  
14 generators that are, effectively, merchant generators.

15  
16 **Q. You mentioned that the Company is projecting a substantial increase in the**  
17 **number of customer-generators participating in net metering that do not have**  
18 **independent load to offset their electric usage. What do you mean by independent**  
19 **load?**

20 **A.** By independent load, I mean load that would rely on PPL Electric's system for a  
21 separate purpose other than to operate the customer's generation.

## Direct Testimony of Andrew Castanaro

1 **Q. What is the impact of such customer-generators on the annual net metering cash-**  
2 **outs for the Small C&I customer class?**

3 A. As of March 31, 2025, the annual net metering cash-outs for the Small C&I customer  
4 class totaled approximately \$11 million. However, based on the level of  
5 interconnections projected over the next few years, PPL Electric estimates that the  
6 annual cash-outs for the Small C&I customer class will be approximately \$60 million  
7 to over \$300 million by 2029. (PPL Electric Exhibits AC-1 through AC-3.)<sup>1</sup>  
8

9 **Q. If the proposal is approved, what will be the impact on the large no-load customer-**  
10 **generators?**

11 A. The large no-load customer-generators will be reclassified as Rate Schedule GSC-2  
12 customers. This means that their excess generation will be paid out based on the GSC-  
13 2 rate. Likewise, the costs to pay for the excess net-metered generation will be  
14 recovered from the GSC-2 rate class, as opposed to the Small C&I customers in the  
15 GSC-1 rate case. The GSC-2 is calculated using real-time pricing based on the hourly  
16 generation needs of the customer class. This differs from the Small C&I GSC-1 rate,  
17 which is based on a combination of load following 12 and 24 month full requirements  
18 contracts. The majority of Large C&I customers are more sophisticated in managing  
19 their energy needs and are less likely to be impacted by an increase in default service  
20 rates because of an influx of net-metered generation. The real-time nature of the GSC-  
21 2 rate, and the sophistication of the Large C&I customers in the GSC-2 rate class

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<sup>1</sup> PPL Electric Exhibits AC-1, AC-2, and AC-3 show projections based on cancellation rates for interconnection projects of 36%, 50%, and 75%, respectively.

## Direct Testimony of Andrew Castanaro

1 mitigates the risk that there will be cross-subsidization between Small C&I customers  
2 and the large no-load customer-generators.

3  
4 **Q. How would the Company implement its maximum registered peak load proposal?**

5 A. The Company would calculate the customers' maximum registered peak load annually  
6 and provide that information to the billing team, which would then determine which  
7 accounts need to be reclassified. Updated classifications would then be communicated  
8 to the affected customers approximately 30-60 days before service under their new rate  
9 schedule begins in June.

10  
11 **Q. Has the Commission approved any proposals that are similar to the Company's**  
12 **maximum registered peak load proposal?**

13 A. Yes. In the Default Service Plan V ("DSP V") proceeding for UGI Utilities, Inc. –  
14 Electric Division ("UGI Electric") at Docket No. P-2024-3049343, *et al.*, the  
15 Commission approved a very similar proposal, under which UGI Electric classifies  
16 customers based on their "supply peak load impact." Although the Company is using  
17 the term "maximum registered peak load" instead of "supply peak load impact," the  
18 customer classification methodologies are effectively the same. It is my understanding  
19 that the Commission's February 20, 2025 Opinion and Order in that proceeding is  
20 currently on appeal before the Commonwealth Court of Pennsylvania as of the date of  
21 submitting this testimony.

## Direct Testimony of Andrew Castanaro

1   **Q.    Does the Company believe that any waivers of the Commission’s regulations are**  
2       **required to implement its proposal?**

3   A.    No. As I noted above, the Company maintains that its proposal is authorized by the  
4       existing provisions in the Commission’s regulations. However, to the extent necessary,  
5       PPL Electric respectfully requests a waiver of the customer groupings recommended in  
6       52 Pa. Code §§ 54.187 and 69.1805, along with any other Commission regulations or  
7       requirements that may be necessary to implement its proposal.

8

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

10  A.    Yes, it does.



Year of Reconciliation/Cashout:	2024	2025	2026	2027	2028	2029	PTC at 12/1/30	
SCI Excess kWh for MGs (kWh Cashed Out)			60,202,851	391,960,372	932,128,980	1,430,455,085		<-- Updated 8/20/25
SCI PTC In effect (5/31)	\$ 0.11386	\$ 0.12114	\$ 0.12114	\$ 0.12575	\$ 0.15067	\$ 0.20474	\$ 0.29515	
SCI Net Metering Expense from MGs			\$ 7,292,672	\$ 49,287,057	\$ 140,441,077	\$ 292,867,083		
Total Estimated SCI Net Metering Expense	\$ 10,350,518	\$ 10,841,474	\$ 18,134,146	\$ 60,128,531	\$ 151,282,551	\$ 303,708,557		<--cashout amount to be reflected in reconciliation for March of each column year, based on projected kWh balance for 5/31 of each column year

^ Actual expense ^ Actual expense

NOTES:

The amount of the net metering expense that is included in the reconciliation is only through March of a given year and the cashout kWh is through May of that same year, so some estimation is necessary due to timing Utilizing Cashout kWh amount on 5/31 to calculate net metering expense used in 3/31 reconciliation

Year of Reconciliation/Cashout:	2024	2025	2026	2027	2028	2029	PTC at 12/1/30
SCI Excess kWh for MGs (kWh Cashed Out)			30,101,426	195,980,186	466,064,490	715,227,542	
SCI PTC In effect (5/31)	\$ 0.11386	\$ 0.12114	\$ 0.12114	\$ 0.12358	\$ 0.13580	\$ 0.15898	\$ 0.18888
Incremental SCI Net Metering Expense			\$ 3,646,336	\$ 24,219,623	\$ 63,291,558	\$ 113,704,729	
Total Estimated SCI Net Metering Expense	\$ 10,350,518	\$ 10,841,474	\$ 14,487,810	\$ 35,061,097	\$ 74,133,032	\$ 124,546,203	

<-- Updated 8/20/25

<--cashout amount to be reflected in reconciliation for March of each column year, based on projected kWh balance for 5/31 of each column year

*^ Actual expense ^ Actual expense*

NOTES:

The amount of the net metering expense that is included in the reconciliation is only through March of a given year and the cashout kWh is through May of that same year, so some estimation is necessary due to timing  
Utilizing Cashout kWh amount on 5/31 to calculate net metering expense used in 3/31 reconciliation

Year of Reconciliation/Cashout:	2024	2025	2026	2027	2028	2029	PTC at 12/1/30	
SCI Excess kWh for MGs (kWh Cashed Out)	90,905,656	95,266,876	15,050,713	97,990,093	233,032,245	357,613,771		<-- Updated 8/20/25
SCI PTC In effect (5/31)	\$ 0.11386	\$ 0.12114	\$ 0.12114	\$ 0.12250	\$ 0.12855	\$ 0.13920	\$ 0.15095	
Incremental SCI Net Metering Expense			\$ 1,823,168	\$ 12,003,786	\$ 29,956,761	\$ 49,779,837		
Total Estimated SCI Net Metering Expense	\$ 10,350,518	\$ 10,841,474	\$ 12,664,642	\$ 22,845,260	\$ 40,798,235	\$ 60,621,311		<--cashout amount to be reflected in reconciliation for March of each column year, based on projected kWh balance for 5/31 of each column year

^ Actual expense ^ Actual expense

NOTES:

The amount of the net metering expense that is included in the reconciliation is only through March of a given year and the cashout kWh is through May of that same year, so some estimation is necessary due to timing  
Utilizing Cashout kWh amount on 5/31 to calculate net metering expense used in 3/31 reconciliation

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 16**

**Direct Testimony of Joseph Lookup**

**Topics: Reliability Performance  
Storm Restoration and Planning  
Large Load Interconnections**

**Dated: September 30, 2025**

## Direct Testimony of Joseph Lookup

1    **I.    INTRODUCTION**

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

3    A.    My name is Joseph Lookup, and my business address is 827 Hausman Road, Allentown,  
4        Pennsylvania 18104.

5

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

7    A.    I am employed by PPL Services Corporation (“PPL Services”) as Vice President –  
8        Transmission and Distribution Planning and Asset Management and provide services to  
9        PPL Electric Utilities Corporation (“PPL Electric” or the “Company”).

10

11   **Q.    What are your responsibilities as Vice President – Transmission and Distribution**  
12   **Planning and Asset Management?**

13   A.    I oversee the Transmission Planning, Asset Strategy, Portfolio Management, Project  
14        Development, Real Estate, Project Management and Construction Management Groups.  
15        This includes responsibility for Transmission system reliability, investment strategy and  
16        project execution.

17

18   **Q.    Please describe your professional experience.**

19   A.    Prior to working at PPL Electric, I worked as a consultant providing engineering, project  
20        management, construction management services for utility, industrial, commercial, and  
21        educational clients. At PPL Electric, I have worked in Engineering, Project and  
22        Construction Management, and Asset Management in various engineering and project  
23        leadership, and management roles.

## Direct Testimony of Joseph Lookup

1

2 **Q. What is the purpose of your testimony?**

3 A. The purpose of my testimony is as follows:

- 4 • To explain the Company's reliability performance and describe proposals aimed at
- 5 improving reliability performance;
- 6 • To discuss trends that the Company is seeing with respect to storms and describe
- 7 Company's plan for addressing storm restoration for more frequent and intense
- 8 storms; and
- 9 • To describe how the Company is meeting the challenges associated with
- 10 interconnecting new large load customers.

11

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

13 A. No.

14

### 15 **II. RELIABILITY PERFORMANCE**

16 **Q. Please describe your assessment of the Company's electric system reliability.**

17 A. The Company's system reliability is generally better than most national utility peers,

18 based on comparisons using the Institute of Electrical and Electronics Engineers

19 ("IEEE") Annual Reliability Benchmarking Survey as well as the Edison Electric

20 Institute ("EEI") Reliability Survey. The 2024 IEEE survey reported on reliability for

21 over 70 million customers represented by 73 operating companies. PPL Electric has

22 been a top quartile IEEE System Average Interruption Frequency Index ("SAIFI")

23 performer since 2014. PPL Electric's 2024 IEEE SAIFI value was 0.661, versus an

## Direct Testimony of Joseph Lookup

1 IEEE panel median of 1.45. Similarly, PPL Electric ranked 11<sup>th</sup> out of 80 utilities for  
2 IEEE SAIFI on the 2024 EEI survey.

3 The Customer Average Interruption Duration Index (“CAIDI”), or average  
4 duration of a customer interruption, is slightly underperforming the median of 124  
5 minutes with a value of 136.6. However, the Company’s customers experience fewer  
6 annual minutes without electric service than do peer utilities. The Company’s System  
7 Average Interruption Duration Index (“SAIDI”), or total minutes an average customer  
8 is without service in a year, is better than most peers (90 annual minutes per customer  
9 in 2024 and 92 minutes in 2023, versus panel medians of 137 minutes in 2024 and 119  
10 minutes in 2023.). For Customers Experiencing Multiple Interruptions (“CEMI”), on  
11 the 2024 EEI survey PPL Electric ranked 14<sup>th</sup> out of 55 companies reporting values for  
12 percentage of customers seeing 3 or more interruptions (“CEMI3+”) in 2024.

13 Although PPL Electric has generally performed well compared to its peers, the  
14 Company recognizes that improvement is still needed in this area to improve the overall  
15 customer experience. This was highlighted in the Pennsylvania Public Utility  
16 Commission’s (“PUC” or “Commission”) Management and Operations Audit issued in  
17 June 2024, and actions are in place to improve the Company’s CEMI, CAIDI and SAIDI  
18 metrics, in addition to ongoing plans around SAIFI and Momentary Average  
19 Interruption Frequency Index (“MAIFI”). In particular, the Company will continue to  
20 evaluate opportunities for new storm hardening programs or acceleration of existing  
21 mitigation programs and/or projects for reliability to minimize outages associated with  
22 increased storm activity (as explained further below).

## Direct Testimony of Joseph Lookup

1 **Q. Does the Company consider other factors as it reviews the reliability of its electric**  
2 **distribution system in addition to SAIFI, CAIDI, and SAIFI?**

3 A. Beyond SAIFI, SAIDI, and CAIDI, PPL Electric routinely considers other reliability  
4 measures such as CEMI, Worst Performing Circuits, Worst Performing Segments,  
5 Customers Experiencing Recent Interruptions (“CERI”) at the 7-day, 30-day, and 90-  
6 day measures. Customers Experiencing Long Interruption Duration (“CELID”) and  
7 MAIFI are also considered. PPL Electric also monitors the reliability and health of  
8 assets through asset monitoring, routine maintenance activities, voltage monitoring, and  
9 tracking and trending of equipment failures.

10  
11 **Q. Please describe your overall assessment of the effectiveness of management as a**  
12 **result of your reliability analysis.**

13 A. PPL Electric’s analysis of reliability performance supports the Company’s view that it  
14 is being effective and well-managed with respect to reliability. Benchmarking through  
15 vehicles like IEEE and EEI shows that performance in a variety of reliability measures  
16 is better than most peers, which management believes reflects the efforts and  
17 investments that have been made over the years to build a smarter, more resilient  
18 electrical infrastructure. The Company is a leader in the use of new technology in the  
19 industry, primarily due to the established culture that empowers management and  
20 personnel to innovate and never settle for status quo. Management uses a broad suite  
21 of dashboards and key performance indicators (“KPIs”) to understand the leading and  
22 lagging indicators of reliability performance. These metrics allow management to make  
23 investment and operational decisions that are designed to improve the overall customer



## Direct Testimony of Joseph Lookup

1 experience and help ensure the Company meets its first quartile operational goals. In  
2 addition, the Company prides itself on being a learning organization, always finding  
3 ways to improve processes or procedures and learning from the past.

4 PPL Electric's culture of innovation is evidenced by the industry innovation  
5 awards it has won, including the 2025 Smart Electric Power Alliance ("SEPA")  
6 Resilience Power Player Award for predictive failure technology that proactively  
7 identifies failing electrical components before they cause outages; the 2024 Thomas F.  
8 Farrell II Safety Leadership and Innovation Award presented to Bill Farber for  
9 outstanding safety leadership; and the 2023 Charles Steinmetz Top Innovator Award  
10 from Public Utilities Fortnightly, recognizing Sal Salet and his team for advancements  
11 in smart grid automation, downed power line detection, and renewable energy  
12 integration. These honors reflect the Company's commitment to pioneering solutions  
13 that enhance grid reliability, safety, and sustainability.

14  
15 **Q. What programs, policies, or actions has the Company specifically implemented to**  
16 **achieve a level of reliability that is indicative of the Company being well-managed?**

17 **A.** The Company began its increased investment in aging infrastructure following the  
18 development of its 2009 Maintenance Optimization Strategy ("MOS") Report to stem  
19 the increase of failures and reliability issues due to an aging fleet. Much of the  
20 investment was made into the transmission system since then, primarily focused on  
21 rebuilding aging 69kV transmission lines, replacing wood poles with more resilient steel  
22 structures, and replacing aging substation assets. As a result of these investments, the

## Direct Testimony of Joseph Lookup

1 Company's transmission system has seen a 90% improvement to transmission SAIFI  
2 over the years 2012-2024.

3 The Company also invested in replacing aging infrastructure on the distribution  
4 system over that period, but only enough to maintain existing reliability levels. Many  
5 of the improvements to distribution SAIFI came because of the Company's Smart Grid  
6 program in 2015. That program enables the Company to automatically identify and  
7 isolate faults on the distribution system and then sectionalize and restore customers  
8 without human intervention, restoring customers often in seconds or minutes.

9 The Company has recently experienced its worst storm performance and worst  
10 SAIFI performance in recent history due to a record number of storms in 2024. The  
11 Company is confident that an increased investment in the distribution system is needed  
12 now to strengthen and harden its system to be more resilient to the increase in storm and  
13 weather-related events and to improve the overall customer experience.

14  
15 **Q. How does PPL Electric determine what are the right investments to make?**

16 A. PPL Electric has a comprehensive governance process in place to guide its capital  
17 investment decisions. This process ensures that investments are aligned with both  
18 system and customer needs, regulatory requirements, and corporate objectives. There  
19 are three main components of this governance process as I will describe below.

20 Asset Management Process: The Transmission and Distribution Asset  
21 Management department is responsible for identifying work and developing associated  
22 costs for infrastructure investments. These investments, once approved by  
23 management, are included in the business plan and ultimately approved at the PPL

## Direct Testimony of Joseph Lookup

1 Corporation board level. The department also reviews projects periodically,  
2 considering factors such as need, prioritization, cost, schedule, and scope of work.  
3 Project reviews and authorizations are conducted monthly through the Transmission  
4 Accountability Meeting (“TAM”) and Distribution Accountability Meeting (“DAM”)  
5 processes.

6 Business Planning Process: PPL Electric prepares a five-year business plan  
7 annually, which is aligned with PPL Corporation’s overall business plan. The business  
8 plan includes capital investments that have been approved through the Asset  
9 Management Process. This iterative process involves submitting the plan to PPL  
10 Corporation until it is approved by the Board of Directors. The business planning  
11 process is informed by system needs, customer interconnections, regulatory  
12 requirements, and customer service needs.

13 Governance and Approval: Projects included in the approved five-year business  
14 plan move on to the Governance and Approval process. The Governance and Approval  
15 process includes several stages, from planning and development, engineering,  
16 construction, in-service, and close-out. This structured approach ensures that all projects  
17 are thoroughly evaluated and approved at various levels, including Director and Vice  
18 President levels, in accordance with Delegation of Authority policies and procedures.

19 This governance framework ensures that PPL Electric’s capital investments are  
20 strategically planned, thoroughly evaluated, and aligned with both internal and external  
21 requirements. Additional discussion of PPL Electric’s governance process can be found  
22 in the direct testimony of PPL Electric witness Dennis Urban (PPL Electric St. No. 2).

23

## Direct Testimony of Joseph Lookup

1

2 **Q. Are there other factors that affect the Company's reliability performance?**

3 A. Yes. While the Company has robust reliability measures and programs in place, as  
4 discussed above, that does not mean it is immune to external factors which can have an  
5 impact upon system reliability. As mentioned above, the Company has seen a record  
6 number of storms in 2024 and one of the worst years in recent history for reliability.  
7 The increase in storms has caused an extensive amount of outages and damage primarily  
8 due to trees and vegetation falling into lines. Because of this trend, there is a strong  
9 need to harden the Company's system to withstand these events. The Company has  
10 developed design and construction standards that will allow us to harden its facilities,  
11 including stronger poles, insulated conductor, and underground facilities.  
12 Implementing these solutions now is necessary to improve the system's reliability and  
13 the overall customer experience. The Company also has a program to manage  
14 vegetation, as explained in the direct testimony of PPL Electric witness Nicole Howell  
15 (PPL Electric St. No. 17). Vegetation management factors heavily into the Company's  
16 system reliability, especially considering dealings with invasive species, such as the  
17 emerald ash borer and spongy moth.

18

19 **Q. Please explain further the problems caused by invasive bug species.**

20 A. The invasive emerald ash borer and spongy moth are causing the mortality of Ash and  
21 Oak trees to rise across the Company's service territory. When these trees defoliate and  
22 die, they can fall on to Company infrastructure and cause outages. Approximately 30%  
23 of the trees that the Company removes are Ash Trees.

## Direct Testimony of Joseph Lookup

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**Q. Please describe the Company’s proposal with regard to invasive bug species.**

A. As discussed in the direct testimony of PPL Electric witness Nicole Howell (PPL Electric St. No. 17), the Company intends on increasing its vegetation management budget to proactively address invasive bug species. PPL Electric is also proposing a program to expand right-of-way (“ROW”) rights to address off-ROW trees.

### **III. STORM RESTORATION AND PLANNING**

**Q. One of the three reasons for which the Company filed its last rate case in 2015 was because of the accelerated capital investments it was making to maintain and improve system reliability in the face of major storms. Briefly describe the Company’s outlook on the frequency and severity of storms in 2015.**

A. Concerns over storm hardening in the 2015 rate case stemmed from several recent major storms that the Company had experienced, namely Hurricane Irene in August 2011, the Halloween Snowstorm in October 2011, and Hurricane Sandy in October 2012. These storms prompted the Company to conduct a review of its system to determine how to reduce the impacts of major storms. From the Company’s 2012 base rate proceeding to the Company’s 2015 base rate proceeding, the Company had made efforts and undertaken initiatives to improve storm response and outage management. Part of this effort included the implementation of a Storm Damage Expense Rider (“SDER”). In the 2015 rate case, the Company proposed changes to the SDER which would, in part, address concerns regarding the unpredictable nature of storms.

## Direct Testimony of Joseph Lookup

1   **Q.    How has the Company’s experience with the frequency and severity of storms**  
2       **changed since the 2015 rate case?**

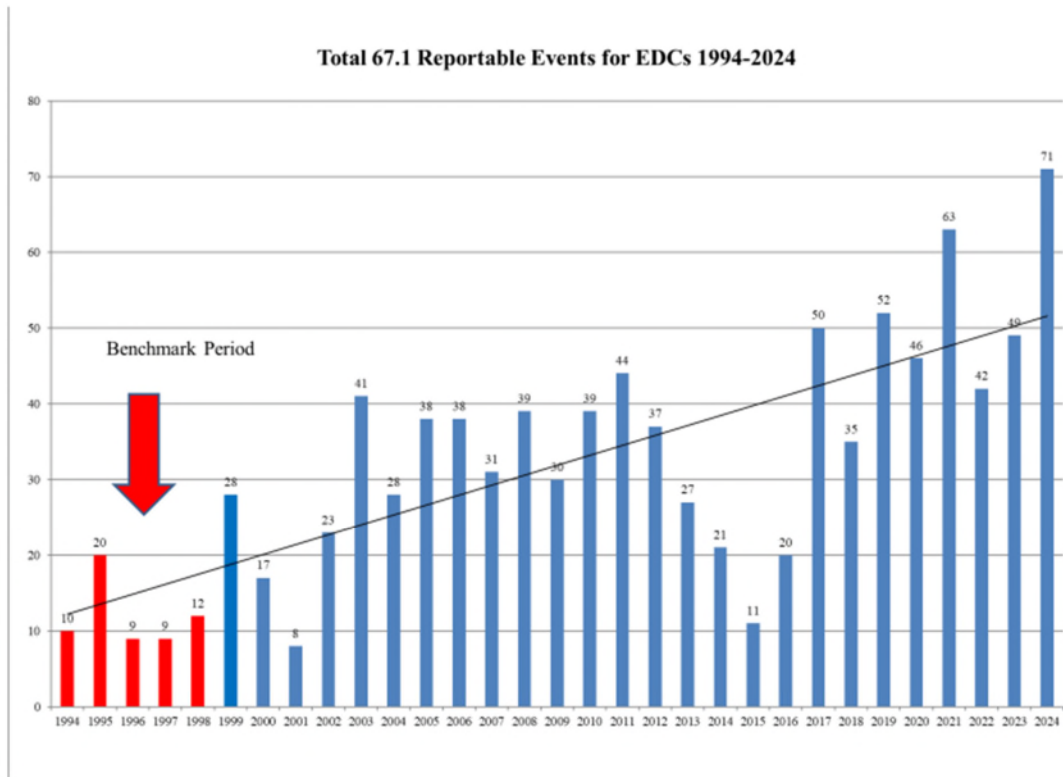
3   **A.    I would note that the frequency and severity of storms, as well as outages related to**  
4       these more frequent and severe storms has increased for the Company and for  
5       Pennsylvania electric distribution companies (“EDCs”) as a whole. In the  
6       Commission’s most recent 2024 Pennsylvania Electric Reliability Report,<sup>1</sup> 2024 had the  
7       most reportable events for all EDCs in Pennsylvania since 1993. A copy of Table 4  
8       from the 2024 Pennsylvania Electric Reliability report is reproduced below:

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<sup>1</sup> [https://www.puc.pa.gov/media/3565/24\\_electric-reliability-report\\_final.pdf](https://www.puc.pa.gov/media/3565/24_electric-reliability-report_final.pdf),

## Direct Testimony of Joseph Lookup

*Table 4 – Total 67.1 Reportable Events for EDCs 1994 through 2024*



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As seen above, EDCs across the Commonwealth experienced 71 reportable outage events in 2024, as compared to 49 events in 2023. Specific to PPL Electric, the Company experienced a significant number of storms, which resulted in 17 reported outage events in 2024. While it did not record a Major Event in 2024, it experienced 11 storms of 600 cases or higher, including six storms of over 1,000 cases.

However, reportable storms data does not tell the whole story. PPL Electric has experienced and expects to continue to experience increases in the number, severity and frequency of non-reportable storm events as well. In 2024, the Company experienced 20 non-reportable storm events, as compared to 31 in 2023 and its historic prior 10-year average of 17. In 2025, PPL Electric is on pace to be a record storm count year with 39

## Direct Testimony of Joseph Lookup

1 total storms (30 non-reportable) through September 14th, the most ever by this time of  
2 year. With respect to severity, PPL Electric notes that the trend in the average number  
3 of damage locations (cases) per PUC Reportable storm has been increasing by  
4 approximately 3% per year from 2016 to 2025. And, with respect to frequency, PPL  
5 Electric notes that it experienced an average of 40 total (reportable and non) storms per  
6 year from 2021-2024, versus and average of 23.6 for the 10 years prior to that period.  
7 Importantly, from an operational perspective, the costs incurred from non-reportable  
8 storms are of a similar nature as costs incurred from reportable storms and should be  
9 granted similar opportunities for cost recovery, as discussed further in the direct  
10 testimony of PPL Electric witness Katelyn Arnold (PPL Electric St. No. 13).

11 Essentially, 2024 presented one of the most challenging years for electric  
12 utilities, including PPL Electric, in history. The Company anticipates that these weather  
13 trends will continue, and that the number and frequency of severe storms will increase  
14 going forward, noting that 2025 is currently on pace to record the highest storm count  
15 in any single year.

16  
17 **Q. How has the Company's focus on storm response and proactive storm hardening**  
18 **evolved since the last rate case was filed?**

19 A. Related to storm hardening, pursuant to its inspection and maintenance ("I&M")  
20 practices, PPL Electric recognizes that while it cannot control the frequency and severity  
21 of weather events it can implement proactive measures that prevent outages from  
22 occurring. In particular, PPL Electric has a specific focus on equipment performance,



## Direct Testimony of Joseph Lookup

1 and has four programs implemented under its I&M plan that are designed to improve  
2 equipment performance:

3 (1) Asset Health Management, which focuses on the use of data-driven failure  
4 probability models to optimize addressing aging infrastructure, the capturing of  
5 asset health and critically scores to refine its programs to deliver the most  
6 effective reliability impact per dollar invested, and the Company's Long-Term  
7 Infrastructure Improvement Plan ("LTIIIP") that includes proactive installation  
8 of measures aimed at improving reliability and customer experience;

9 (2) Chronic Reliability Remediation, which most recently focuses upon the  
10 Company's 2024 initiative to "harden" its circuits including those most  
11 impacted by weather events given the increased number of storms that have been  
12 experience, and proactive circuit analysis that reviews every circuit on a four-  
13 year cycle to address operational and reliability characteristics for each circuit;

14 (3) Engineering Design Standards, which include the Company's Reliability  
15 Principles and Practices that ensure the Company plans, protects, and operates  
16 its electric distribution system under a consistent set of principles to ensure  
17 system safety and reliability; and

18 (4) Smart Grid, which includes efforts by the Company since its last base rate  
19 case to enable it to react rapidly to changes occurring on the distribution system  
20 due to weather (or other) events.

21 PPL Electric also has robust vegetation management practices related to tree pruning,  
22 removal, re-clearing, and herbicide application inside of the ROW. PPL Electric also  
23 removes hazard trees outside of the ROW when possible. Additional information

## Direct Testimony of Joseph Lookup

1 regarding the Company's current and proposed enhanced vegetation management  
2 practices is provided by PPL Electric witness Nicole Howell (PPL Electric St. No. 17).

3 In summary, based upon the increased frequency and severity of weather events,  
4 the Company has enhanced its focus and its multi-faceted approach to both: (1) improve  
5 response and repair time to help ensure fewer customers are affected by storms outages  
6 for a shorter period; and (2) harden the distribution system to prevent weather-related  
7 outages from occurring in the first place.

8  
9 **Q. How is this additional focus on storm response and storm hardening measures**  
10 **driving the need for rate relief in this matter?**

11 A. The Company's enhanced focus on storm response and storm hardening measures is  
12 one of the primary drivers of rate relief in this proceeding. Although the Company  
13 continues to ensure that it is allocating resources in an efficient manner (i.e., by ensuring  
14 that its portfolio of activities produces the best reliability result for a given expenditure),  
15 this involves additional expenditures in the form of both capital investments designed  
16 to improve system resilience and reliability, and O&M expenses designed to respond to  
17 storm events and improve how the system is maintained and decrease the risk of storms  
18 impacting existing facilities.

## Direct Testimony of Joseph Lookup

### 1 IV. LARGE LOAD INTERCONNECTIONS

2 Q. Please explain why the subject of data centers and other large load  
3 interconnections in the Company's service territory has emerged as an important  
4 issue.

5 A. Data centers and other large load customers are increasing in Pennsylvania. While these  
6 customers will provide the opportunity for significant economic development within the  
7 Company's service territory, they also represent a large load influx onto PPL Electric's  
8 system presenting new challenges. Pennsylvania is fast becoming an epicenter for data  
9 center innovation, and PPL Electric is seeing a significant portion of this growth in its  
10 service territory. Large load customers are attracted to the Company's modern and  
11 robust electric grid, and PPL Electric has an increasing number of data center projects  
12 in advanced development. The pipeline of projects exceeds the Company's current peak  
13 load of 7.8 GW. In practical terms, that means the Company is preparing to more than  
14 double its system demand in just 5–6 years—growth that took over a century to reach.  
15 This large-scale growth directly enhances the lives of PPL Electric's 1.5 million  
16 customers in eastern and central Pennsylvania. It drives down costs, improves grid  
17 reliability, and helps ensure that households and communities reap the rewards of robust  
18 infrastructure while supporting economic revitalization and job creation across the  
19 region. PPL Electric provides a robust transmission system that data centers need to  
20 operate efficiently, offering both high reliability and high capacity.

## Direct Testimony of Joseph Lookup

1 **Q. What impact does the Company anticipate from the development of data centers**  
2 **and the resulting demand?**

3 A. Data centers are driving substantial load growth at an unprecedented level. PPL Electric  
4 will need to make significant investments in the transmission system to interconnect  
5 these new customers. This will include investments that are paid for by the customer  
6 and investments that are paid for by the Company. With respect to investments that are  
7 put into rate base, the Company is mindful not to create stranded asset risk for other  
8 customers. Additionally, PPL Electric must account for the resource adequacy  
9 challenges created by this significant load growth. By carefully planning and executing  
10 these investments, PPL Electric aims to support the growth of new customers without  
11 compromising the service quality for existing customers.

12  
13 **Q. Does the Company have a planned response to the expected impact of data centers**  
14 **and other large load interconnections?**

15 A. Yes, the Company is already implementing this plan through its existing electric service  
16 agreement (“ESA”) process. Notably the current ESA includes minimum load  
17 guarantees (80% of contracted load until service commitment is satisfied), load ramp  
18 schedules, and security instruments to ensure that the customer pays enough in revenue  
19 to cover the cost of rate-based investments. Additionally, the agreement outlines early  
20 termination terms and conditions to protect both the Company and other customers from  
21 stranded cost risk. By adhering to these provisions, the Company aims to maintain a  
22 balanced and sustainable approach to managing the increased demand while mitigating  
23 stranded cost risk to other customers.

## Direct Testimony of Joseph Lookup

1

2 **Q. Is PPL Electric proposing to adjust its tariff to address these issues as a part of this**  
3 **proceeding?**

4 A Yes. The Company is proposing to revise its Rate Schedule LP-5 to mirror what it is  
5 currently requiring in its ESA with large customers. Under the proposed tariff language,  
6 any large load customer that requires upgrades that will be socialized through rates must  
7 provide adequate security that it will meet a revenue guarantee equal to the amount of  
8 costs placed into rates. As explained earlier, this involves minimum load guarantees for  
9 the term of the service commitment and security instruments covering the obligation in  
10 the event that the customer defaults.

11

12 **Q. How has the Company handled such large load interconnection requests up to this**  
13 **point?**

14 A. Under the Company's current retail tariff, service at or above 69 kV is provided under  
15 Rate Schedule LP-5, which generally requires the customer to pay for all  
16 interconnection costs. Historically, this approach has worked well, as the system  
17 upgrade facilities needed to interconnect the LP-5 customer only benefited the  
18 interconnecting customer, justifying the customer covering the cost. New large load  
19 customers have created the situation that they are necessitating upgrades that provide  
20 benefits to the entire grid. These include reliability benefits arising out of upgrading the  
21 networked bulk electric system. The Company has been extending service under its LP-  
22 5 rate schedule and including load commitment guarantee terms in the customer's ESA.  
23 The load commitment language in the ESA is similar to the Company's line extension

## Direct Testimony of Joseph Lookup

1       guarantee terms in Rule 3 of the tariff for lower voltage line extensions. In addition to  
2       the customer's contribution in aid of construction ("CIAC") obligation, the customer  
3       guarantees to take service in an amount that the customer will pay electric service rates  
4       equal to the upgrade costs that are socialized through transmission rates. This is  
5       designed to ensure that the investments to interconnect these customers are justified and  
6       that other customers will not be left paying for stranded assets.

7  
8       **Q.    Has the Company's existing treatment of new large load interconnections in this**  
9       **manner been successful?**

10      A.    Yes. Although it is still early in the large load development trend, and there are not any  
11      current large load customers in service that are subject to the new ESA terms, the  
12      Company has not experienced any significant pushback to the ESA terms and has  
13      successfully executed ESAs with these terms for load additions in the pipeline.

14  
15      **Q.    If the Company's use of its existing ESA process for new large load**  
16      **interconnections has been successful, why is the Company proposing to revise its**  
17      **Rate Schedule LP-5?**

18      A.    PPL Electric utilized its existing ESA process to try to meet the needs of the new large  
19      load customers. However, in the long term the Company wants to memorialize its large  
20      load interconnection terms in its tariff for transparency and consistency.

## Direct Testimony of Joseph Lookup

1   **Q.    How does the Company protect, or plan to protect, other customers from the risk**  
2       **that a planned large load may not materialize?**

3    A.    The proposed revisions to the LP-5 rate schedule require a customer to provide security  
4       in an amount that equals the costs being put into rates. In the event that the customer  
5       stops taking service prior to PPL Electric receiving revenue equal to the rate-based costs,  
6       the Company will draw down the security and apply those funds to reduce its plant in  
7       service amount. This has the effect of backing these costs out of rates, so that other  
8       customers do not pay for upgrades needed for load that did not materialize.

9

10   **Q.    Are there any benefits to other customers from interconnecting new large load**  
11       **customers?**

12   A.    Yes. First the upgrades to the bulk electric system will improve the reliability and  
13       resiliency of the transmission grid. In certain instances, these upgrades may create new  
14       transmission paths which will allow for additional generation to be brought online.  
15       Second, customers should see significant reductions in their transmission costs. PPL  
16       Electric recovers its costs for its transmission system through its Federal Energy  
17       Regulatory Commission ("FERC") formula rate. These costs are allocated to customers  
18       by the amount they contribute to the system peak. When these large loads are  
19       interconnected, they will represent a significant percentage of PPL Electric's system  
20       peak, and as a result lower the portion other customers are responsible for paying.

21

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

23   A.    Yes, it does.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 17**

**Direct Testimony of Nicole Howell**

**Topics:   Vegetation Management**

**Dated: September 30, 2025**



## Direct Testimony of Nicole Howell

1    **I.    INTRODUCTION**

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

3    A.    My name is Nicole Howell, and my business address is 827 Hausman Road, Allentown,  
4           PA 18104.

5

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

7    A.    I am employed by PPL Electric Utilities Corporation (“PPL Electric” or the  
8           “Company”), a subsidiary of PPL Corporation, as Manager – Vegetation Management  
9           & Program Management.

10

11   **Q.    What are your responsibilities as Manager – Vegetation Management & Program**  
12       **Management?**

13   A.    I am responsible for leading the distribution and transmission vegetation maintenance  
14       program and the Pole Attachments Services program across the PPL Electric service  
15       territory.

16

17   **Q.    What is your educational background?**

18   A.    I obtained a Bachelor of Commerce from Toronto Metropolitan University in Toronto,  
19       Canada and a Master of Business Administration from Moravian University in  
20       Bethlehem, PA.

21

## Direct Testimony of Nicole Howell

1    **Q.    Please describe your professional experience.**

2    A.    I have served in my current role since January of 2024, overseeing both Vegetation  
3    Management and Pole Attachment Services. I have held various positions over the past  
4    10 years at PPL Electric, including Field Metering, Work Management and Portfolio  
5    Management.

6

7    **Q.    What is the purpose of your testimony?**

8    A.    The purpose of my testimony is to describe the Company's current vegetation  
9    management program and proposed enhancements to that program.

10

11   **II.    VEGETATION MANAGEMENT**

12   **Q.    Please describe the Company's service territory with respect to vegetation**  
13   **management.**

14   A.    The vegetation coverage across PPL Electric's service territory is diverse and  
15   substantial, with a mix of urban, suburban, rural, and forested landscapes. Over 50% of  
16   PPL Electric's overhead distribution lines are tree exposed.

17

18   **Q.    What are the benefits of vegetation management?**

19   A.    Vegetation management improves system reliability, allows electric utilities to provide  
20   safe electric service, and plays a role in reducing wildfires. Vegetation encroachment  
21   into Company assets can make it difficult to access facilities during storm restoration.  
22   Providing clearance between PPL Electric's assets and vegetation will support safer

## Direct Testimony of Nicole Howell

1 working conditions for line workers and tree trimmers and will allow for quicker  
2 restoration of service to customers after a storm.

3  
4 **Q. Please explain any issues that the Company faces within its service territory**  
5 **regarding vegetation management.**

6 A. Approximately 46% of outages that PPL Electric customers experience is caused by  
7 vegetation (based on past 10 years of data). During storm events, about 77% of outages  
8 that PPL Electric customers experience is caused by vegetation. And, due to an increase  
9 in storm frequency and intensity as explained further in the direct testimony of PPL  
10 Electric witness Joseph Lookup (PPL Electric St. No. 16), instances of these vegetation-  
11 caused outages are increasing year-over-year.

12  
13 **Q. Please describe the Company's current vegetation management program.**

14 A. PPL Electric employs a five-to-eight-year inspection and maintenance cycle for its  
15 distribution circuits. The vegetation on PPL Electric's transmission and distribution  
16 rights-of-way ("ROWS") is maintained utilizing a variety of vegetation management  
17 activities. These activities include tree pruning, tree removal, brush control, and  
18 herbicide application. Vegetation maintenance activities are budgeted and planned  
19 based on proximity and risk to PPL Electric's assets.

## Direct Testimony of Nicole Howell

1   **Q.    How does the Company’s current vegetation management program address the**  
2   **issues laid out above?**

3   A.   PPL Electric currently employs a condition-based five-to-eight-year inspection and  
4       maintenance cycle for its distribution circuits. The inspection and maintenance  
5       activities include trimming, removing hazard and danger trees (if permitted by ROW  
6       agreement or landowner permission), and brush control. To safeguard the reliability of  
7       its electric distribution system, PPL Electric employs this comprehensive program to  
8       manage vegetation around power lines. Keeping trees and other vegetation away from  
9       distribution lines is vital, as tree contacts can result in short-circuits and subsequent  
10      service outages. PPL Electric uses vegetation risk models to prioritize vegetation  
11      activities at the circuit and sub-circuit level. To combat the impact of storm season,  
12      PPL Electric uses vegetation risk models to prioritize circuits within its inspection and  
13      maintenance workplan. The risk models account for tree exposure, overstrike risk, and  
14      previous outage history to prioritize the potential for highest impact to customers from  
15      a vegetation outage risk perspective. The Company also deploys integrated vegetation  
16      management (“IVM”) techniques including the use of herbicide applications. IVM is  
17      the most effective treatment approach known to maintain system reliability and safety  
18      by promoting desirable species for a more cost-effective way to manage vegetation. The  
19      Company prepares for the impacts of storm season by front-loading priority vegetation  
20      maintenance activities before the summer months, while balancing work and resources  
21      through the remainder of the year.

## Direct Testimony of Nicole Howell

1 **Q. Do you believe that the Company's current vegetation management program is**  
2 **sufficient to address the Company's vegetation management needs?**

3 A. No. As I discussed above, PPL Electric is seeing more frequent and higher intensity  
4 storms. The Company also has experienced declines in forest health led by invasive  
5 species impacts like the emerald ash borer and spongy moth, which have significantly  
6 increased the number of unhealthy trees that are at risk of falling into distribution lines.  
7 Vegetation is the largest contributor to outages during storm events and is a significant  
8 area of opportunity to improve reliability for customers. Considering that over 50% of  
9 PPL Electric's distribution circuits are tree-exposed (see Table A below), the  
10 Company's reliability metrics are projected to see great improvements by decreasing  
11 the trim cycle in its vegetation management plan. A decreased trim cycle would allow  
12 the Company to better combat vegetation growth across its service territory.

13 **Table A**

Single-Phase		Multi-Phase		Total	
Tree Exposed Miles	% Exposure	Tree Exposed Miles	% Exposure	Tree Exposed Miles	% Exposure
11,864	62%	3,860	45%	15,724	57%

14  
15  
16 **Q. Please explain the Company's proposal to enhance its vegetation management**  
17 **program.**

18 A. To address the Company's ongoing challenges with vegetation management, a  
19 comprehensive two-pronged approach is being proposed. The first component involves  
20 an increase in the vegetation management budget in the Fully Projected Future Test  
21 Year ("FPFTY"). This expanded budget will support a higher frequency in the cycle of  
22 vegetation inspection and maintenance. By dedicating additional resources, the

## Direct Testimony of Nicole Howell

1 Company aims to proactively identify and mitigate potential vegetation-related risks,  
2 thereby improving system reliability and reducing the likelihood of outages or safety  
3 hazards. The second prong of the strategy focuses on addressing off right-of-way (“Off-  
4 ROW”) trees—those that exist beyond the current distribution ROW but nevertheless  
5 pose a threat to the distribution system. The Company plans to implement a program  
6 to acquire enhanced distribution ROW rights. This initiative will seek to obtain  
7 easement rights that will allow the Company to remove hazard and danger trees that are  
8 currently outside of PPL Electric’s ROW. It will also allow the Company to return  
9 distribution corridors to width and height specifications that promote greater system  
10 reliability.

11  
12 **Q. Can you describe what PPL Electric is proposing with respect to its vegetation**  
13 **management budget?**

14 A. The Company’s budget for the distribution vegetation management program in the  
15 Historic Test Year (“HTY”) is \$35.6 million and Future Test Year (“FTY”) is \$31.8  
16 million. PPL Electric is proposing an increase in the Fully Projected Future Test Year  
17 (“FPFTY”) over present budget levels to approximately \$50 million.

18  
19 **Q. What improvements will the Company achieve by increasing investment in the**  
20 **vegetation management program?**

21 A. The Company’s proposed investment will prioritize core vegetation maintenance and  
22 reliability enhancing vegetation activities. Specifically, PPL Electric will be able to  
23 increase the frequency of its vegetation maintenance cycle, return distribution ROW

## Direct Testimony of Nicole Howell

1 corridors to Company specifications, mitigate potential wildfire risk, and improve safety  
2 for the public.

3  
4 **Q. Can you describe PPL Electric's plan with respect to the frequency of its vegetation**  
5 **maintenance cycle?**

6 A. As mentioned above, PPL Electric currently performs a condition-based five-to-eight-  
7 year vegetation maintenance cycle. This means that every distribution circuit will be  
8 inspected and have any necessary maintenance activities performed at least once every  
9 five to eight years. The Company is proposing to increase its target frequency to once  
10 every 5 years. The increased inspection and maintenance frequency will allow the  
11 Company to proactively identify and address vegetation that may cause issues in the  
12 future. This has the benefit of potentially eliminating the cause of an outage before it  
13 happens, which improves reliability for customers and lessens storm response costs.

14  
15 **Q. How will the increased budget help the Company restore its distribution ROW**  
16 **corridors to Company specifications?**

17 A. There are some instances where PPL Electric has inadequate easement rights to maintain  
18 its ROW corridor to current specifications. This has created a situation where there are  
19 circuits on the system with clearances less than the Company specifications of 15 feet  
20 for single-phase lines, and 25 feet for multi-phase lines. Additionally, the Company  
21 wants to strategically target areas with the highest reliability risk, and clear up to 30 feet  
22 for single phase, and 40 feet for multi-phase lines in certain areas. The increased budget

## Direct Testimony of Nicole Howell

1 will allow the Company to maintain its distribution circuits to Company specifications  
2 making it less likely that the current established tree line will be below specifications.  
3

4 **Q. How does the Company's proposal help mitigate wildfire risk?**

5 A. Proper vegetation management can contribute to a reduction in the ignition, spread,  
6 flame lengths, and severity of wildfires. Wildfire risk in Pennsylvania is greatest at the  
7 beginning and end of storm season – i.e., during the spring and fall months. Vegetation  
8 and its proximity to power lines plays a key role in the prevention of wildfire. It is  
9 important for the Company to maintain clearance across its distribution circuits to limit  
10 ignition sources.  
11

12 **Q. Describe how the Company's proposal promotes public safety.**

13 A. An increased investment in vegetation maintenance activities will also provide a safer  
14 environment for PPL Electric's customers. Trees falling into lines can become a path  
15 to ground, potentially impacting members of the public who are in the area of a downed  
16 tree or wire from a vegetation hit. Additionally, limiting downed trees and wires makes  
17 it safer for first responders who may be responding to incidents in and around PPL  
18 Electric facilities.  
19



## Direct Testimony of Nicole Howell

1 **Q. Can the Company quantify any projected reliability benefits from increasing its**  
2 **vegetation management budget?**

3 A. PPL Electric is anticipating a 5% improvement within the next 5 years to System  
4 Average Interruption Frequency Index (“SAIFI”) over the past 3-year performance as a  
5 result of increasing its vegetation management budget.  
6

7 **Q. Can you describe the Company’s proposal to acquire additional ROW?**

8 A. PPL Electric wishes to acquire additional rights which will allow it to clear vegetation  
9 more easily and eliminate further risk to its power lines and other assets. Specifically,  
10 the Company wants to acquire rights that will allow it to address hazard and danger trees  
11 outside of its existing ROW.  
12

13 **Q. Why does the Company need additional rights?**

14 A. There are three primary reasons why the Company needs acquire targeted enhanced  
15 ROW rights. First, a significant portion of the Company’s distribution facilities are  
16 located within public road ROW. This is an efficient use of public infrastructure but  
17 does not give PPL Electric rights on private property outside of the public road ROW  
18 to address vegetation maintenance.

19 Second, over the years PPL Electric’s standards and specifications have  
20 changed. This creates a situation where an easement was acquired decades ago that was  
21 adequate for then current specifications but no longer provides enough rights to comply  
22 with current specifications.

## Direct Testimony of Nicole Howell

1           And third, the Company has a portion of easements that were never recorded  
2           and only allow the Company to maintain vegetation to the current established tree line.  
3           I discuss the problems with unrecorded easements in more detail below.

4           Historically, although the Company obtained distribution easements which  
5           permitted it to clear and maintain a distribution line corridor and address hazard and  
6           danger trees outside of the corridor, these easements were not consistently recorded.  
7           Therefore, the easements did not run with the land if the property owner from whom  
8           PPL Electric originally obtained the easement sold the property, and the Company's  
9           rights to maintain an easement were restricted to where it has historically cleared and  
10          maintained the distribution corridor (commonly referred to as the "current established  
11          tree line"). The Company's current specifications for distribution line corridors are 15  
12          feet for single-phase lines and 25 feet for multi-phase lines, but in many instances,  
13          trimming to the current established tree line is less than these specifications.

14          As I mentioned previously, the Company wants to enhance its current  
15          specifications to 30 feet ground to sky for single phase, and 40 feet ground to sky for  
16          multi-phase lines in certain areas that are prone to vegetation related outages. The  
17          enhanced vegetation management program, and specifically the proposal to acquire  
18          easement rights, will allow PPL Electric to restore, adopt and maintain a consistent,  
19          system-wide specification for distribution line easements, clearing rights and hazard and  
20          danger tree rights.

## Direct Testimony of Nicole Howell

1    **Q.    Can you describe the Company's acquisition of ROW proposal in detail?**

2    A.    To address Off-ROW trees, the Company is proposing a program under which it will  
3           approach and negotiate with landowners to acquire and record enhanced easement  
4           rights, which will include hazard and danger tree rights. PPL Electric will seek these  
5           rights in targeted areas that can benefit the most from hazard and danger tree removal.  
6           It is anticipated that the identified hazard and danger trees will be removed soon after  
7           the additional hazard and danger tree rights are acquired. Furthermore, PPL Electric is  
8           proposing to capitalize the first removal of hazard and danger trees after the acquisition  
9           of these additional rights because this initial removal will permit PPL Electric to return  
10          its ROW to standard specifications, thereby improving the condition of the ROW.

11

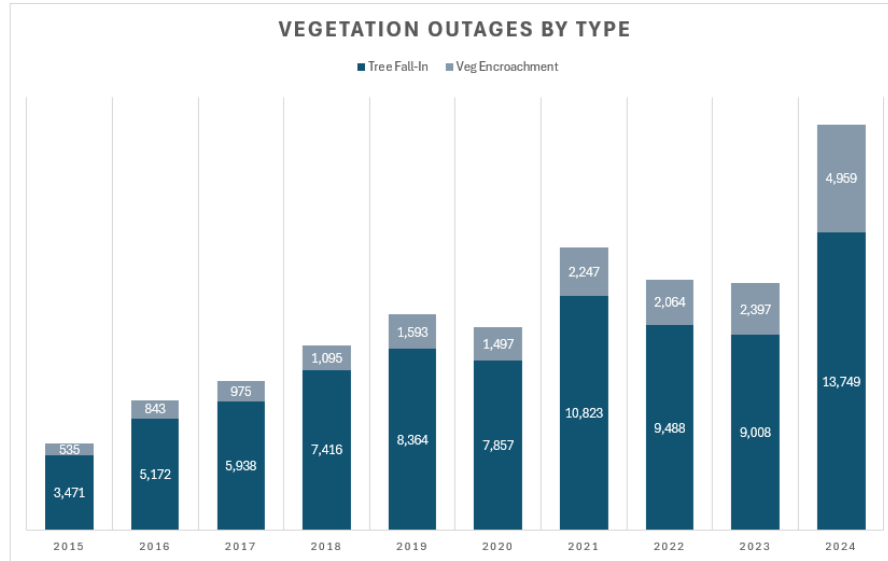
12   **Q.    Are Off-ROW trees a problem on PPL Electric's distribution system?**

13   A.    Yes. In particular, the Company is increasingly concerned about the impact of Off-  
14          ROW trees on reliability. Approximately 82% of outages that occurred over the past  
15          10 years have been caused by Off-ROW trees. PPL Electric has seen an increase in Off-  
16          ROW tree-related outages not only due to more variable weather events, but also due to  
17          large defoliation events that have led to forest health impacts and subsequent tree  
18          decline from invasive species like the emerald ash borer, spongy moth, and beech leaf  
19          disease. However, PPL Electric is limited in its ability to address Off-ROW trees  
20          because in many instances it lacks easement rights to remove hazard and danger trees.

21                As shown in the graphic below, Off-ROW "tree fall-ins" or trees failing and  
22          falling into PPL Electric's power lines account for approximately 80% of vegetation

## Direct Testimony of Nicole Howell

caused outages. The remaining vegetation caused outages are associated with encroachment issues such as branches falling into power lines.



By attaining additional tree rights and prioritizing additional tree clearing of Off-ROW trees, PPL Electric can provide a safer and more reliable system for customers and the general public.

**Q. Why are Off-ROW trees becoming an increasing cause of system outages?**

A. It is mainly a combination of two factors. First is the increased volume and intensity of storms experienced across PPL Electric's service territory, and second is the impact of invasive bug species. The increased volume and intensity of storms is discussed in Mr. Lookup's direct testimony (PPL Electric St. No. 16). Storms stress the vegetation in the Company's service territory, and when there are more and stronger storms, it increases the likelihood of an outage being caused by vegetation. This is why the Company must proactively address Off-ROW trees to improve reliability.

## Direct Testimony of Nicole Howell

1           With respect to invasive bug species, the emerald ash borer and spongy moth  
2           have caused the mortality of Ash and Oak trees to rise across the Company's service  
3           territory. When these trees defoliate and die, they can fall on to Company infrastructure  
4           and cause outages. Over the past 3 years, up to 30% of the trees the Company removes  
5           annually have been Off-ROW Ash trees that are dead or dying from the emerald ash  
6           borer.

7  
8   **Q.   Will the Company target specific areas of its service territory to acquire enhanced**  
9   **ROW rights?**

10   **A.**   Yes. The enhanced ROW acquisition program will focus on areas where an engineering  
11           and construction solution is not feasible, therefore requiring additional tree removal,  
12           enhanced trimming or corridor widening. The targeted enhanced ROW acquisition  
13           program will focus on areas with the highest risk for customer interruptions based on  
14           tree risk conditions and outage impact. Specifically, PPL Electric will look to acquire  
15           enhanced ROW in areas where storm hardening work is already being performed. The  
16           Company will also identify and prioritize this enhanced vegetation reliability work by  
17           utilizing a combination of remote sensing and risk modeling techniques to map  
18           vegetation presence and model tree conditions/risk system wide. Models are developed  
19           using data sources, such as satellite imagery, Light Detection and Ranging ("LiDAR"),  
20           historical vegetation maintenance information, and outage data. This approach will also  
21           aid in the strategic acquisition of additional ROW with hazard and danger tree rights.

## Direct Testimony of Nicole Howell

1 **Q. Does the Company have a budget to acquire the enhanced ROW rights to address**  
2 **Off-ROW trees?**

3 Y. Yes. PPL Electric has included \$25 million in its capital budget for the FPFTY to  
4 acquire additional ROW rights. This will include the acquisition of the new easement  
5 rights, and costs associated with the first pass of restoring the ROW width and  
6 addressing Off-ROW hazard and danger trees. The Company anticipates that it will  
7 continue to pursue the program in the years after the FPFTY, which will be addressed  
8 in future rate cases.

9  
10 **Q. Will PPL Electric compensate landowners for these additional ROW rights, and if**  
11 **so, how will the compensation be determined?**

12 A. It depends on the particular negotiations with landowners. There may be some  
13 landowners who are willing to grant additional ROW rights at no cost because the  
14 Company will remove dead or dying trees that put the landowner's property at risk. If  
15 the landowner wants compensation the Company will develop an offer based on the fair  
16 market value of similar property in the area.

17  
18 **Q. If a landowner is unwilling to grant additional easement rights will the Company**  
19 **pursue condemnation?**

20 A. It is unlikely that Company would pursue condemnation against landowners who are  
21 unwilling to grant additional ROW rights. If the Company cannot negotiate additional  
22 ROW rights, it will likely pursue engineering and construction solutions to address  
23 reliability concerns. This could include storm hardening efforts like undergrounding or

## Direct Testimony of Nicole Howell

1 the use of Hendrix cables. Only if the acquisition of additional ROW is the only option  
2 to resolve the reliability concern will the Company consider using eminent domain.

3  
4 **Q. Will PPL Electric record the new ROW rights?**

5 A. Yes. Unlike past practices, it is the Company's intent to record these new easement  
6 rights in public land records to preserve them in perpetuity. Given the capital  
7 investment in these rights the Company believes it is prudent to record these rights so  
8 that they can be maintained into the future.

9  
10 **Q. Is the Company projecting any reliability improvements from acquiring enhanced  
11 ROW rights?**

12 A. Yes. The Company is projecting an additional 7% improvement to SAIFI from  
13 acquiring these additional ROW rights over the next 5 years. This improvement will be  
14 achieved from activities that occur after the FPFTY, but the investment included in this  
15 rate case is needed to start the program to achieve the anticipated reliability benefits.

16  
17 **Q. Is the Company's proposal with respect to vegetation management consistent with  
18 industry best practices?**

19 A. Yes. PPL Electric's proposal to increase its vegetation management budget and to  
20 acquire enhanced ROW rights to address Off-ROW trees is consistent with industry best  
21 practices. PPL Electric performed an internal review and industry benchmarking effort  
22 from 2024 to 2025 to enhance its vegetation management program for safety, reliability,  
23 efficiency, and customer experience. This benchmarking effort was performed through

## Direct Testimony of Nicole Howell

1 the Southeastern Electric Exchange peer survey. As a result of this effort, the Company  
2 identified the above-described management program that combines cyclical  
3 maintenance activities to gain clearance with data driven, reliability enhancing  
4 vegetation activities. The enhanced ROW rights program focusses on areas where an  
5 engineering and construction solution is not feasible, therefore requiring additional tree  
6 removal, enhanced trimming or corridor widening. This proposal will enhance PPL  
7 Electric's vegetation management activities and is consistent with leading practices  
8 across the industry to ensure optimal reliability is delivered to customers.

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

11 **A.** Yes, it does.



**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025- 3057164**

**PPL Electric Utilities Corporation**

**Statement No. 18**

**Direct Testimony of Lisa Norden**

**Topics:**      **Customer Service Performance**  
                 **Customer Benefits of IT Upgrades**  
                 **Payment Transaction Fees**  
                 **Universal Services Program Salaries and Wages**  
                 **Universal Services CAP Cost Recovery Offset**  
                 **Supplier Tariff**

**Dated: September 30, 2025**

## Direct Testimony of Lisa Norden

1   **I.    INTRODUCTION**

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

3   A.    My name is Lisa Norden, and my business address is PPL Electric Utilities 827  
4       Hausman Road, Allentown, PA 18104.

5

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

7   A.    I am employed by PPL Electric Utilities Corporation (“PPL Electric”), a subsidiary of  
8       PPL Corporation, as Vice President Customer Services.

9

10   **Q.   What are your responsibilities as Vice President Customer Services?**

11   A.    I lead PPL Electric’s customer service team, which is one of the most customer-facing  
12       functions at the Company. I oversee a broad range of customer relationship functions,  
13       such as metering system operations, contact center and support operations, billing,  
14       revenue collection, supplier services, universal service programs, energy efficiency  
15       programs and the key accounts team. I work to make sure that all activities within the  
16       team are conducted safely and in an efficient manner that enhances the overall customer  
17       experience.

18

19   **Q.   What is your educational background?**

20   A.    I have a Bachelor of Science degree in Accounting and Finance from the University of  
21       Maine.

22

## Direct Testimony of Lisa Norden

1     **Q.     Please describe your professional experience.**

2     A.     I have been in my current role with PPL Electric from 2022 to present. Prior to that, I  
3           was the Chief Operating Officer of Reybold Group in 2021, held multiple positions with  
4           Qurate Retail Group from 2013 to 2020 (the last being Senior Vice President,  
5           Fulfillment), was the Principal Consultant for Portland Enterprise Partners in 2012, held  
6           multiple positions with L.L. Bean, Inc. from 1990 to 2011 (the most recent being Vice  
7           President, Customer Satisfaction) and was a Senior Auditor with Coopers & Lybrand  
8           from 1985 to 1989.

9

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

11    A.     I will address the Company's customer service performance and planned initiatives to  
12           maintain and improve that level of performance. I will discuss changes to the  
13           Company's customer services Information Technology ("IT") investments to improve  
14           the Customer Information System ("CIS") and Customer Experience ("CX") systems.  
15           Additionally, I will testify about PPL Electric's proposals to include the cost of payment  
16           transaction fees in base rates, include the internal universal service employee salaries  
17           and wages to the universal service program rider, and eliminate the Customer Assistance  
18           Program ("CAP") cost recovery offset. Finally, I will testify about the Company's  
19           proposed changes to its supplier tariff, which include charging suppliers for the cost of  
20           electronic data interchange ("EDI") costs incurred to support them and adjusting the  
21           purchase of receivables ("POR") write off discount.

22

## Direct Testimony of Lisa Norden

1   **Q.    Are you sponsoring any exhibits or schedules in this proceeding?**

2   A.    Yes, I am co-sponsoring Schedules D-11 of Exhibits Historic 1, Future 1, and Fully  
3       Projected Future 1. I am also sponsoring PPL Electric Exhibit LN-1, which is the  
4       Company's proposed Supplier Tariff, and PPL Electric Exhibit LN-2, which is a  
5       summary list of the proposed changes in the Supplier Tariff.

6

7   **II.   CUSTOMER SERVICE PERFORMANCE**

8   **Q.    How much does the Company focus on its customer service performance?**

9   A.    Customer service is at the heart of the Company's vision, mission, and values. PPL  
10       Electric's employees are dedicated to providing the highest quality, safe, and affordable  
11       service to all customers at reasonable rates. To achieve those goals, PPL Electric  
12       emphasizes listening to the Company's customers, treating them with respect, and  
13       seeking their input to better service their needs. The Company also provides customers  
14       with useful information about their energy usage and billing and focuses on creating  
15       and maintaining programs that support their needs.

16

17   **Q.    Has the Company performed any surveys regarding its customer service?**

18   A.    Yes. The Company strives to make every customer interaction a positive one, and  
19       customer satisfaction is an important measure of PPL Electric's performance. The  
20       Company measures customer satisfaction through a collection of objective data  
21       generated in part through customer feedback. For example, when contacting the  
22       customer service department, customers are offered the opportunity to take a survey  
23       conducted by a third party to rate their satisfaction with the phone contact center

## Direct Testimony of Lisa Norden

1 interaction. Using a scale of 1 to 5 (1 being Not Satisfied and 5 being Completely  
2 Satisfied), the “CE” customer experience rating from these surveys gives the Company  
3 critical information on the service experience through the phone contact channel. In  
4 2024, PPL Electric’s CE rating was 4.4 on 5.0 scale, which exceeded the Company’s  
5 target of 4.0.

6 The Company also regularly monitors its J.D. Power survey data, which  
7 measures overall customer satisfaction for utility safety and reliability, billing and  
8 payment, corporate citizenship, customer care, price, and communications. PPL  
9 Electric ranked in the top half in the Large East region by J.D. Power in electric  
10 residential customer satisfaction among its peers in 2023, 2024 and year to date in 2025.  
11 These recognitions reflect the high level of commitment and resources the Company  
12 has consistently dedicated to customer satisfaction.

13  
14 **Q. Has the Company received any accolades for its customer service?**

15 A. Yes. In 2025, PPL Electric received Escalent’s Utility Trusted Brand & Customer  
16 Engagement study for “Easiest to do business with” utility award. The Company also  
17 received the following Hermes Creative Awards for its “Real Savings for Real People”  
18 campaign: (1) Platinum Award for an Integrated Marketing Campaign; (2) Platinum  
19 Award for a TV Ad Campaign; and (3) Gold Award for Interactive Creative. In 2024,  
20 PPL Electric received the ENERGY STAR Partner of the Year Award – Sustained  
21 Excellence and the ENERGY STAR Residential New Construction Market Leader  
22 Award, along with Escalent’s Utility Customer Champions Award – Residential and the  
23 MarCom Platinum Award for Overarching Energy Efficiency Campaign. PPL Electric

## Direct Testimony of Lisa Norden

1 also received the ENERGY STAR Partner of the Year Award – Sustained Excellence  
2 and the ENERGY STAR Residential New Construction Market Leader Award in 2023.  
3 Although the Company continually strives to maintain and improve on its current level  
4 of customer service performance, these awards recognize PPL Electric’s success and  
5 achievement of goals.

### 7 **III. CUSTOMER SERVICE BENEFITS OF IT UPGRADES**

8 **Q. Does the Company have any planned customer service system upgrades?**

9 A. Yes. As discussed in PPL Electric witness Daniel Johnson’s direct testimony (PPL  
10 Electric St. No. 19), the Company is undertaking upgrades to its IT systems.

12 **Q. Please describe the Company’s current Customer Information System (“CIS”) and**  
13 **why updates are necessary.**

14 A. The Company’s current CIS is Customer/1 (CSS) and went into production for PPL  
15 Electric in 1999. As Mr. Johnson explains in his direct testimony, implementation of  
16 the new CIS will mitigate key risks, most importantly, cybersecurity and obsolescence  
17 risks with the Company’s current systems.

19 **Q. What is the new CIS platform the Company will be implementing?**

20 A. PPL Corporation has chosen to implement SAP SE’s (“SAP”) cloud-based system as its  
21 CIS. This will enable PPL Electric to continue delivering high quality customer service.

## Direct Testimony of Lisa Norden

1 **Q. Please describe the Company's current Customer Experience ("CX") platforms**  
2 **and the proposed changes.**

3 A. The Company's current CX platform includes several applications that allow customers  
4 to self-serve, including the Company's website (pplelectric.com) and Interactive Voice  
5 Response ("IVR") system, which is an integrated software-based call center platform  
6 with Natural Language Processing ("NLP") intended to help customers self-serve  
7 through human like conversation. PPL Electric also offers an event-based notification  
8 system for customers via multiple communication mediums including e-mail, phone  
9 and short message service ("SMS"). PPL Corporation plans to create more integrated  
10 CX platforms that better facilitate self-service for customers and allows customers to  
11 begin a transaction on one channel like phone, mobile app, and web or electronic  
12 communications and complete the transaction at a later time on another channel. The  
13 planned CX upgrades will allow for this capability and provide a better customer  
14 experience with the Company.

15  
16 **Q. What customer service benefits are expected to be created through the new CIS**  
17 **and CX?**

18 A. These initiatives align with PPL Electric's commitment to improving customer service,  
19 providing better overall service to customers, providing customers with more options,  
20 and adding convenience. It also aligns with customers' expectations to be able to  
21 interact with the Company in a manner that is convenient and addresses their specific  
22 needs.

## Direct Testimony of Lisa Norden

### IV. PAYMENT TRANSACTION FEES

**Q. Does PPL Electric have any specific proposals with regard to payment transaction fees?**

A. Yes. PPL Electric wants to include the costs of payment transaction fees in base rates, rather than making the customer cover the transaction fee separately. This would apply to credit and debit card fees as well as electronic payment methods such as Venmo and PayPal. It has become an expectation of customers to be able to make payments in a method that is most convenient to them. Removing the separate transaction fee enables customers to focus on making payments on their accounts and is designed to improve customer satisfaction.

**Q. How does PPL Electric currently handle payment transaction fees?**

A. Currently, a customer who makes a one-time payment using a credit or debit card or makes a payment via a walk-in location, such as through Western Union or Fiserv, is charged a separate fee set by the outside vendor. The amount of that fee depends on the method and amount of the payment. Specifically, the current credit/debit card fees online or through apps such as Venmo and PayPal are \$2.50 per transaction of up to \$1,000 for residential customers and \$7.50 per transaction of up to \$1,500 for non-residential customers. The walk-in fee is \$2.00 per transaction. PPL Electric proposes to no longer directly charge individual customers making one-time electric payments for those fees and, instead, recover the costs associated with the fees through base rates.



## Direct Testimony of Lisa Norden

1   **Q.    Why does PPL Electric propose this change?**

2    A.    Customers expect convenient options for payment of their bills. Chief among those  
3       convenient options is payment of bills through devices connected to the Internet through  
4       mobile or online applications. However, the fees assessed for these transactions make  
5       these payment options less convenient and desirable. As a result, customers may be less  
6       willing to make timely payments for their electric service accounts. On the other hand,  
7       if these fees are recovered through base rates, the cost of the transaction fee would no  
8       longer play a part in the customer's decision-making. Instead, customers could simply  
9       pay their bills using the method that is most convenient for them.

10               Accordingly, the Company's proposal would provide the following benefits: (1)  
11       help customers avoid termination of service or late payments; (2) eliminate the burden  
12       of the transaction fee on customers; (3) reduce confusion between the third-party  
13       transaction fees and the Company's charges for electric service; (4) increase customer  
14       satisfaction; and (5) reduce the inconvenience of customers sending a check via mail.

15

16   **Q.    How may the Company's proposal benefit low-income customers specifically?**

17    A.    PPL Electric's proposal is particularly beneficial for low-income customers. By  
18       eliminating the separate assessment of these transaction fees on customers making the  
19       payments, PPL Electric's low-income customers will have a significant monetary  
20       burden lifted from their shoulders. In fact, PPL Electric estimates that low-income  
21       customer payments accounted for approximately 5.3 million of the 16.4 million total  
22       transactions that were assessed these fees. Moreover, low-income customers'  
23       transaction fees were approximately \$2.1 million of the \$3.8 million total fees assessed

## Direct Testimony of Lisa Norden

1        between November 2023 and October 2024.<sup>1</sup> Therefore, while low-income customers  
2        accounted for approximately 32% of the transactions, their fees accounted for  
3        approximately 56% of the total transaction fees. Thus, low-income customers are  
4        poised to benefit greatly from the Company's proposal.

5  
6        **Q.     Would the Company be working with any third-party vendors to implement this**  
7        **proposal?**

8        A.     Yes. PPL Electric plans to work with third party vendors to implement the proposal.  
9        The Company currently uses a third-party vendor today for the processing of these fees.  
10       The Company anticipates that the continued use of third-party vendors will make  
11       processing these transaction fees more efficient.

12  
13       **Q.     What are the estimated costs associated with this proposal?**

14       A.     The estimated annual expense for this proposal is approximately \$4.98 million. My  
15       understanding is that these costs will be allocated to the appropriate customer classes.  
16       The estimated costs were developed based on the Company's historical data for the  
17       transaction fee activities and assuming a 30% growth rate. The Company is anticipating  
18       a 30% growth rate in transaction fees because it is expecting more customers will utilize  
19       electronic payment methods now that they do not have to pay a separate transaction fee.

20  

---

<sup>1</sup> This time period was chosen to include payment trends outside of and during the winter moratorium.

## Direct Testimony of Lisa Norden

1   **Q.    Have any other electric and gas utilities operating in Pennsylvania made similar**  
2       **changes?**

3   **A.    Yes. I am aware that Duquesne Light Company, FirstEnergy Pennsylvania Electric**  
4       **Company, and Philadelphia Gas Works recover the costs associated with one-time**  
5       **electronic payment fees in base rates.**

6

7   **V.    UNIVERSAL SERVICES PROGRAM SALARIES AND WAGES**

8   **Q.    Does the Company have any proposals regarding recovery of Universal Service**  
9       **and Energy Conservation Plan (“USECP”) Employee salaries and wages?**

10   **A.    Yes. PPL Electric proposes to recover those costs through its Universal Service Rider**  
11       **(“USR”) as opposed to base rates.**

12

13   **Q.    What are the USECP employees’ job duties?**

14   **A.    The employees administer the programs under the Company’s USECP, which**  
15       **collectively provides several forms of assistance to customers to help them pay their**  
16       **electric service bills and pay down their balances in arrears. Specifically, the USECP**  
17       **contains the following programs: (1) OnTrack – PPL Electric’s Customer Assistance**  
18       **Program (“CAP”); (2) WRAP – PPL Electric’s Low-Income Usage Reduction Program**  
19       **(“LIURP”); (3) Operation HELP – PPL Electric’s Hardship Fund; and (4) Customer**  
20       **Assistance and Referral Evaluation Service (“CARES”) - PPL Electric’s Special**  
21       **Referral Service for Customers with Temporary Hardships. In administering these**  
22       **programs, the USECP employees, among other things, conduct customer outreach,**  
23       **respond to customer inquiries, work with Information Technology (“IT”) personnel to**

## Direct Testimony of Lisa Norden

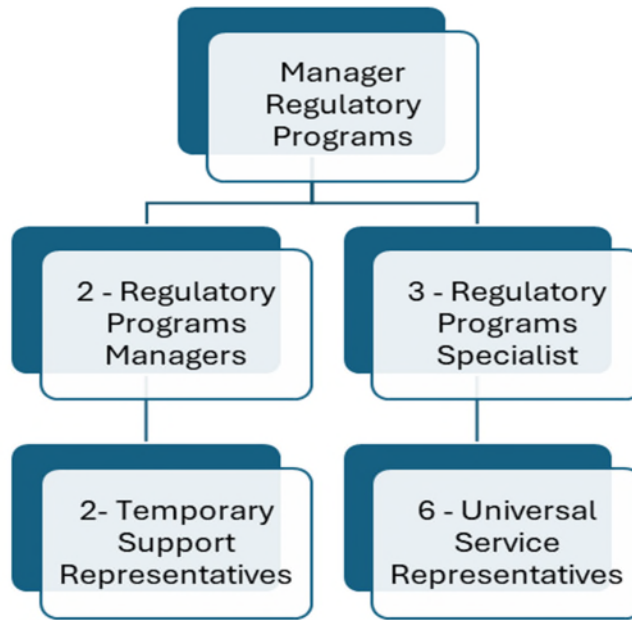
1 update the Company's IT systems to incorporate regulatory requirements, and  
2 coordinate the operations of contractors and community-based organizations ("CBOs")  
3 that help implement the USECP. Below is a chart outlining the employees' roles and  
4 responsibilities.

<b>Manager Regulatory Programs</b>	Responsible for all Universal Service Programs, including regulatory requirements, strategic planning, and department management.
<b>Regulatory Program Managers</b>	Responsible for the design and implementation of the Universal Service programs including program strategy, communications, customer outreach, and resource management.
<b>Regulatory Programs Specialists</b>	Responsible for management support, auditing, quality assurance, and primary contact for partner organizations and contractors.
<b>Universal Service Representatives</b>	Support daily/weekly account level work associated with Universal Service Programs.
<b>Temporary Support Representatives</b>	Support daily/weekly account level work associated with LIHEAP.

5  
6 **Q. How many USECP employees does the Company have?**

7 A. There are 14 employees that perform these tasks. Below is the organization chart for  
8 these employees.

## Direct Testimony of Lisa Norden



1  
2  
3 **Q. Why is it appropriate to recover those employees' salaries and wages through the**  
4 **USR, as proposed by the Company?**

5 A. There are several reasons. First, by recovering these expenses through the USR instead  
6 of base rates, PPL Electric can better adapt and budget its internal staffing needs for the  
7 USECP programs, which are a critical component of the Company's electric service to  
8 low-income customers. Second, all other USECP program costs are recovered through  
9 the USR, so the inclusion of internal USECP employee salaries and wages in the USR  
10 will simplify the recovery of the USECP program costs. Third, the Company currently  
11 recovers the internal employee salaries and wages for its Act 129 Energy Efficiency and  
12 Conservation ("EE&C") Plan through its Act 129 Compliance Rider ("ACR"), so the  
13 Company's proposal would treat internal employee salaries and wages for the USECP  
14 programs essentially the same but through the USR instead of the ACR. Fourth, by  
15 including the expenses in the USR, the expenses will be subject to reconciliation,

## Direct Testimony of Lisa Norden

1        assuring that any over- or under-recovery of these expenses will be trued up and subject  
2        to interest. If the costs are recovered in base rates, the salary and wage expenses would  
3        not be revisited until the Company's next base rate case. Finally, the Company's  
4        proposal would eliminate the regulatory lag in recovering USECP costs experienced  
5        through recovering internal salaries and wages through base rate recovery.

6  
7        **Q.     What would the incremental impact of the Company's proposal be on the costs**  
8        **recovered through the USR?**

9        A.     PPL Electric estimates that approximately \$1.4 million in internal employee salaries and  
10       wages for the USECP programs would be recovered through the USR in the Fully  
11       Projected Future Test Year ("FPFTY"). That additional cost would represent an overall  
12       increase of 1.1% in the amount of costs recovered through the USR currently. PPL  
13       Electric also projects that the incremental costs of approximately \$1.4 million recovered  
14       through the USR under this proposal would result in a very minor increase in the USR  
15       charge. For example, if the approximately \$1.4 million were included in the current  
16       USR charge of \$0.01111 per kWh that is effective through December 31, 2025, the  
17       charge would increase to \$0.01121 per kWh.

18  
19       **Q.     Are there any tariff changes needed to implement this proposal?**

20       A.     Yes. The Company has updated the language in its tariff to reflect the recovery of the  
21       USECP employees' salaries and wages through the USR, which can be found in the  
22       Company's proposed retail tariff. (PPL Electric Exhibit GEO-1.) Please see the direct

## Direct Testimony of Lisa Norden

1 testimony of PPL Electric witness Gregory Olsen, who is sponsoring the proposed retail  
2 tariff. (*See* PPL Electric St. No. 14.)

### 3 4 **VI. UNIVERSAL SERVICES CAP COST RECOVERY OFFSET**

5 **Q. Could you please provide background on the current USR offset credit for**  
6 **Customer Assistance Program (“CAP”) customers?**

7 A. Under Paragraph 47 of the Commission-approved 2015 Rate Case Settlement, it  
8 provides:

9 To address the bad debt, arrearage forgiveness, and Cash Working Capital issues  
10 raised in OCA Statement No. 4, PPL Electric will provide a fixed Universal Service  
11 Rider (“USR”) credit of \$100 per month for all CAP customers above 44,000. The  
12 Joint Petitioners further agree to evaluate further revisions in the USR credit and  
13 arrearage forgiveness and to recommend additional changes in the Company’s next  
14 universal service proceeding. The Joint Petitioners retain the right to review and  
15 file testimony concerning any such proposals as permitted by the normal  
16 Commission process for review of the Universal Service Plan.  
17

18 **Q. Is the Company proposing any adjustments to that \$100 credit?**

19 A. Yes. PPL Electric proposes to eliminate that \$100 credit.  
20

21 **Q. Why does the Company want to do this?**

22 A. PPL Electric’s proposal to eliminate this CAP recovery offset should be approved  
23 because it more appropriately reflects how the Company recovers its bad debt expense.  
24 Specifically, when non-CAP customers fail to pay their bills, that bad debt expense is  
25 included in the Company’s normalized claim for bad debt expense in a base rate case.  
26 When CAP customers have balances in arrears written off due to their participation in  
27 the program, PPL Electric recovers the written-off balances with other USECP costs

## Direct Testimony of Lisa Norden

1 through the USR. The Company does not include projections of bad debt expense from  
2 CAP customers in its base rates.

3 Furthermore, although the number of CAP customers can change over time, my  
4 understanding is that the CAP recovery offset is still unnecessary. As currently  
5 constructed, the offset only works in one direction, that is to reduce the USR's recovery  
6 if CAP customer participation goes above a specified level after distribution base rates  
7 are established. However, if CAP customer participation goes below the amount, the  
8 Company's base rates remain the same.

9 In addition, I am advised by counsel that the Commission has recently rejected  
10 OCA's proposed inclusion of a bad debt offset in a universal service rider. Specifically,  
11 in PGW's 2023 Rate Case, the Commission rejected the OCA's proposed bad debt offset  
12 in PGW's Universal Service and Energy Conservation ("USEC") surcharge.<sup>2</sup>  
13 Therefore, although I am not a lawyer, I believe that the Company's proposal aligns  
14 with this recent decision.

15  
16 **VII. SUPPLIER TARIFF CHANGES AND PAYMENT FOR ELECTRONIC DATA**  
17 **INTERCHANGE (EDI) TRANSACTIONS**

18 **Q. Is the Company making any proposals with respect to its Supplier Tariff?**

19 A. Yes. PPL Electric is proposing to adopt a new Supplier Tariff, Tariff – Electric Pa.  
20 P.U.C. No. 2S. Both clean and blackline versions of the proposed Supplier Tariff are  
21 provided in PPL Electric Exhibit LN-1. The Company's current Supplier Tariff initially  
22 became effective back on August 27, 1998, during the advent of retail electric supply

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<sup>2</sup> *Pa. PUC v. Phila. Gas Works*, Docket Nos. R-2023-3037933, *et al.*, at 238-39 (Order entered Nov. 9, 2023) ("PGW 2023 Rate Case Order").



## Direct Testimony of Lisa Norden

1 market. Although some provisions have been modified since that time, the Supplier  
2 Tariff is well overdue for an update to address current policies and procedures governing  
3 PPL Electric's interaction with and charges to EGSs and other issues.

4  
5 **Q. Is there a list of changes that summarizes the proposed tariff changes?**

6 A. Yes. This list can be found in PPL Electric Exhibit LN-2.

7  
8 **Q. Are there any of those changes to the Supplier Tariff that you would like to point**  
9 **out specifically?**

10 A. Yes. PPL Electric proposes to charge Electric Generation Suppliers ("EGSs") for the  
11 costs that the Company incurs to process their EDI transactions. To do so, the Company  
12 would offset its payments to EGSs by an allocated amount of the EDI transaction fees  
13 incurred by PPL Electric. To the extent that any EGSs do not participate in the POR  
14 Program, PPL Electric would bill those EGSs for the EDI transactions separately in the  
15 Coordination Services Charge on a monthly basis. Each EGS's allocated amount will  
16 be based on the EGS's number of EDI transactions compared to the total EDI  
17 transactions for that payment period.

18  
19 **Q. Are there any other costs associated with the EDI transactions that PPL Electric**  
20 **is proposing to charge EGSs as part of this proposal?**

21 A. Yes. PPL Electric also will include the costs of testing a new Data Universal Numbering  
22 System ("DUNS") that the Company needs to set up for each EGS. There are two types  
23 of fees: (1) "Full" testing, which is to test DUNS activity for a new supplier; and (2)

## Direct Testimony of Lisa Norden

1 “Abbreviated” testing, which is to test DUNS activity for an existing supplier requesting  
2 an additional DUNS number. Currently, these costs are \$4,867.20 for full testing and  
3 \$2,215.98 for abbreviated testing. These costs will be directly assigned to the EGS and  
4 included in the Coordination Services Charge.

5  
6 **Q. Why does PPL Electric propose to implement this change?**

7 A. PPL Electric believes that these costs are better recovered from the entities directly  
8 causing the costs’ incurrence (i.e., EGSs) as opposed to the Company’s general  
9 customer base, which includes both shopping and non-shopping customers. Moreover,  
10 these EDI transactions and testing costs are a necessary component of the EGSs’ ability  
11 to do business in PPL Electric’s service territory, so it is reasonable and appropriate for  
12 them to be responsible for the costs associated with those transactions. Furthermore, the  
13 EDI transaction costs will be applied on a per-transaction basis. This methodology will  
14 encourage EGSs to more efficiently use Company resources.

15  
16 **Q. What is the annual expense associated with the EDI transactions that PPL Electric**  
17 **currently incurs?**

18 A. Over the 12-month period July 1, 2024, through June 30, 2025, the EDI transaction fees  
19 totaled approximately \$929,000. For the FPFTY, the Company projects that the EDI  
20 transaction fees will total approximately \$960,000. PPL Electric projects an increase in  
21 these fees based on the estimated level of shopping for the FPFTY. If the Company’s  
22 proposal to charge EGSs for these transaction fees is not adopted, PPL Electric should

### Direct Testimony of Lisa Norden

1 be permitted to recover the projected costs associated with those EDI transaction fees  
2 for the FPFTY through base rates to ensure that the Company still recovers those costs.

3

4 **Q. Would the Company need to adjust its revenue requirement if it is not permitted**  
5 **to charge the DUNS and EDI transaction costs to suppliers?**

6 A. Yes. The proposed FPFTY budget assumes that the DUNS and EDI transaction costs  
7 will be recovered from suppliers. If this proposal is not approved, the Company would  
8 need to adjust its revenue requirement to recover these costs in base rates.

9

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

11 A. Yes, it does.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 19**

**Direct Testimony of Daniel Johnson**

**Topics: IT Upgrades**

**Dated: September 30, 2025**

## Direct Testimony of Daniel Johnson

1   **I.    INTRODUCTION**

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

3   A.    My name is Daniel Johnson. My business address is 280 Melrose Street, Providence,  
4       Rhode Island 02907.

5

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

7   A.    I am Senior Vice President, Chief Information Officer for PPL Services Corporation  
8       ("PPL Services"), a subsidiary of PPL Corporation and an affiliate of PPL Electric  
9       Utilities Corporation ("PPL Electric" or the "Company").

10

11   **Q.    What are your responsibilities in that role?**

12   A.    I am responsible for innovation, digital technology, customer technology, field  
13       operations technology, grid-pipeline-generation technology, enterprise technology,  
14       infrastructure and technology operations, and Agile transformations. I supervise all  
15       technologies, applications, enterprise architecture, including security and middleware,  
16       data analytics, and Artificial Intelligence ("AI") platforms. I lead a team of 7 senior  
17       management professionals.

18

19   **Q.    What is your educational background and professional experience?**

20   A.    A complete statement of my education and work experience is attached to this testimony  
21       as Appendix A.

22

## Direct Testimony of Daniel Johnson

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

2    A.    The purpose of my testimony is to explain the current state of the Company's  
3           information technology ("IT") infrastructure and discuss the need for upgrades to  
4           modernize and streamline this infrastructure. I will report on the state of the Company's  
5           customer-facing, business-facing, operations, and cybersecurity IT systems, as well as  
6           the Company's multi-year assessment of the operational risks of the current systems. I  
7           will explain why investment in upgrades to IT systems is necessary to secure critical  
8           infrastructure, streamline customer service and billing processes, ensure cost efficiency  
9           across all systems, and better evaluate and leverage new technologies in the future.

10

11   **II.    IT INFRASTRUCTURE OVERVIEW, RISKS, AND SYSTEMS**

12   **Q.    Please describe the role of IT Infrastructure in the Company's operations.**

13    A.    The Company's IT infrastructure is essential to every part of its operations. Operating  
14           an efficient, modern utility means storing, processing, and utilizing large quantities of  
15           data every single day. In the past, the number of employees that were directly accessing  
16           and working with the Company's IT was limited. However, in an interconnected,  
17           modern utility, nearly everyone relies on dependable IT systems to do their jobs.  
18           Whether they are linemen, generation unit engineers, accountants, or customer service  
19           personnel, the Company's employees constantly transmit and receive information and  
20           important communications through the Company's platforms. To continue providing  
21           reliable and reasonably priced electric service to customers, the Company must ensure  
22           that this information is safe from predatory outside groups, maintained on a stable  
23           platform, and efficiently organized so it can be used effectively.

## Direct Testimony of Daniel Johnson

1

2 **Q. Describe how the IT landscape has changed since the Company's 2015 rate case**  
3 **and the challenges presented by those changes.**

4 A. Both the utility and technology industries have seen significant changes in the past  
5 decade. It has been a decade-long sprint through innovation, disruption, and  
6 reinvention. We have seen societal shifts in how we live, work, and connect with  
7 people. The pandemic accelerated remote work adoption, but the groundwork was laid  
8 prior to the start of the pandemic. Since the filing of the last rate case in 2015, the  
9 Company has achieved significant operating efficiencies via remote meetings, file  
10 sharing systems, and other mainstream workflow software.

11 But evolution of technology has also introduced new and complex challenges to  
12 the Company's IT operations. These challenges include rapid growth of new  
13 technologies associated with demand side management ("DSM") programs, and  
14 increasingly complex behind-the-meter generation operations. These advancements  
15 have added new complexity to what was previously a simpler, one directional  
16 movement of energy to customers. To meet the challenges presented by this  
17 complexity, now more than ever, accessing understandable, useful real-time  
18 information is critical to effective operations.

19 There are also new expectations for customer service. The electrification of  
20 vehicles and homes has made customers more conscious of their energy bills. This has  
21 led to customer demand for transparent, accessible information about their bills and  
22 energy usage so that customers can maximize their savings. As customer needs continue

## Direct Testimony of Daniel Johnson

1 to evolve, it is likely that the Company will become even more dependent on an  
2 efficient, stable IT infrastructure to meet these new expectations.

3 Most importantly, the Company's IT infrastructure is more essential than ever  
4 to keeping its operations secure. The Company is responsible for both critical energy  
5 infrastructure and vast amounts of highly sensitive customer, business, and contractor  
6 information, all of which is subject to threats by hostile actors. These hostile groups are  
7 constantly adopting new tactics, so outdated security systems or unwary staff can create  
8 a significant risk that critical information and systems will be compromised. The rapid  
9 evolution of AI has made these attacks even more effective and frequent.

10  
11 **Q. Describe the Company's current IT infrastructure.**

12 A. The Company's current IT infrastructure consists of an array of interconnected  
13 platforms that fall into a handful of categories. Field operations, cybersecurity,  
14 business-side IT (often called enterprise resource planning, or "ERP"), customer-side  
15 IT, and content management platforms. Many of these components are currently run  
16 "on premise" using the Company's own hardware. Current software applications  
17 include:

- 18 • **Field Operations:** The Company's field operations rely on Hexagon EAM product  
19 suite and Oracle's Primavera for work scheduling, resource, and cost management.  
20 In addition, the Company uses Environmental Systems Research Institute, Inc.'s  
21 ("ESRI") suite of Geographic Information Systems ("GIS") tools for system  
22 mapping needs.



## Direct Testimony of Daniel Johnson

- 1       • **Grid Management:** The grid management systems include Advanced Distribution  
2       Management System (“ADMS”) for the distribution system, and Advanced Energy  
3       Management System (“AEMS”) for the transmission system. These grid  
4       management systems are utilized to provide safe and reliable power to the  
5       Company’s customers during normal day-to-day operation, as well as in the event  
6       of unplanned disturbances to the grid. These systems are provided by GE Vernova  
7       (“GEV”).
- 8       • **Cybersecurity:** The Company uses an array of cybersecurity products to ensure  
9       that staff and customers are protected against unauthorized security breaches or  
10      cyberattacks, and it employs numerous staff who are dedicated to cybersecurity on  
11      a full-time basis.
- 12      • **ERP:** The Company operates its finance systems on the PeopleSoft General Ledger  
13      (GL) platform and its human resources system uses Oracle HCM (Human Capital  
14      Management) including timekeeping. Oracle HCM was implemented in May 2020  
15      and has a vendor subscription agreement and support through May 2028. Because  
16      the PeopleSoft GL system does not have all the functions needed to meet the  
17      Company’s financial requirements, including treasury, remittance processing and  
18      budgeting, the Company supplements the system with additional applications  
19      including FIS (treasury management system and accounts payable hub), Deluxe  
20      (utility customer remittance processing), Utilities International (budgeting and  
21      forecasting). And, because Oracle HCM does not have all the functions to meet the  
22      Company’s human resources requirements, including recruiting and goals plus  
23      performance management, the Company must supplement the system with

## Direct Testimony of Daniel Johnson

1 additional applications including iCIMS (recruiting) and PeopleFluent to fill these  
2 gaps. Additionally, native Oracle HCM shortcoming requires the Company to  
3 invest in middleware to connect Oracle HCM to multiple legacy systems.

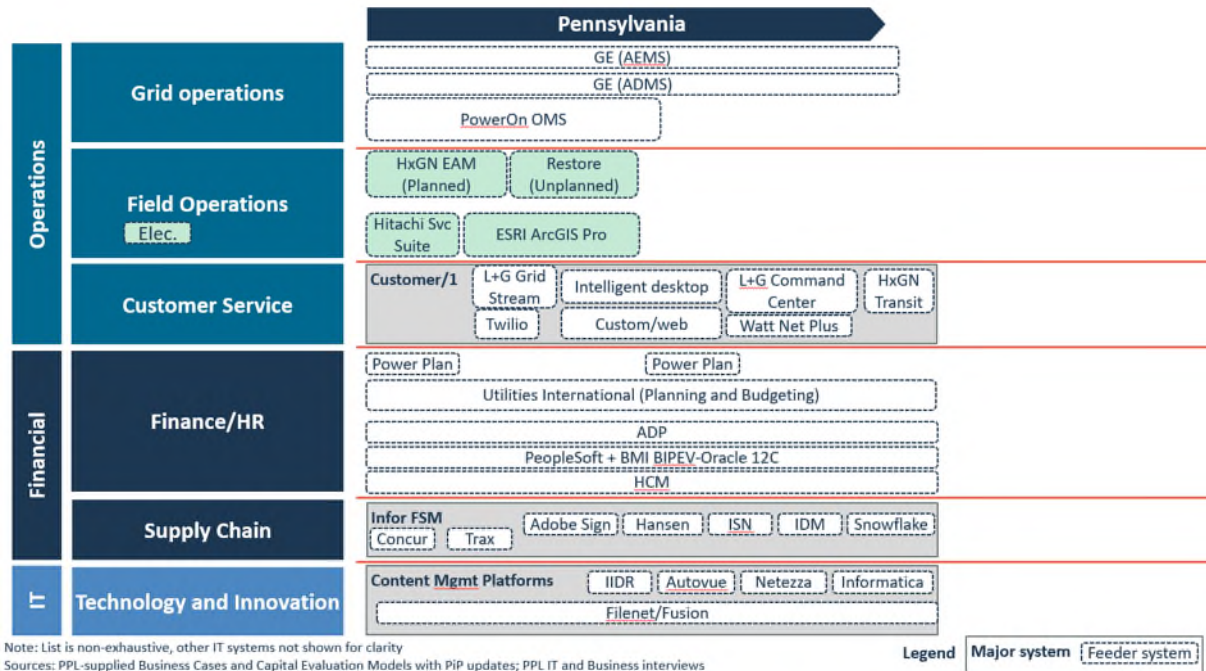
- 4 • **Customer Information System (“CIS”):** The Company currently uses the  
5 Accenture Customer/1 customer system that is COBOL-based and challenging to  
6 support. PPL Electric’s instance of Customer/1 in PA was first implemented 25  
7 years ago.

- 8 • **Customer Experience (“CX”):** The Company’s CX platform – which powers the  
9 channels that customers use to interact with the Company – consists of the Twillio  
10 platform for multichannel communication.

- 11 • **Content Management Platforms:** The Company relies on an array of different  
12 content management platforms to share projects and information between groups  
13 and with third parties.

14 A visual representation of these systems is depicted in the table below:

## Direct Testimony of Daniel Johnson



**Q. Does the Company's existing IT infrastructure position it to efficiently serve customers in the future?**

A. No. Although the Company's current IT infrastructure remains capable of carrying out day-to-day functions in the near term, managing these disparate systems and maintaining aging hardware and software infrastructure requires roughly 90% of the Company's IT resources. This leaves few IT resources remaining to identify and work on applications, systems, and software that will position the Company to serve its customers reliably in the future.

In addition, there are barriers to sharing information across the disparate platforms within PPL Corporation, which are only overcome through manual entry, requiring time and effort from non-IT staff. In short, the Company's current IT infrastructure could maintain the status quo in the near term, but is growing increasingly costly, is becoming less reliable, and, ultimately, is hampering the Company's ability to

## Direct Testimony of Daniel Johnson

1 find forward-thinking, more efficient ways to serve its customers. This is not a  
2 sustainable approach to managing this important part of the Company's long-term  
3 success.

4  
5 **Q. What specific risks and challenges have been identified in the Company's IT**  
6 **infrastructure?**

7 A. Many systems are either aging, nearing the end of their service contracts, or reaching  
8 "end-of-life," which is the point at which an IT product is no longer maintained or  
9 supported by its manufacturer. Obsolescence is looming for many of the Company's  
10 existing systems. For example:

- 11 • Customer/1: This system is rigid and built for cost times consumption-based rates.  
12 To adapt and customize Customer/1 to new rate structures such as time varying rates  
13 or compliance with Federal Energy Regulatory Commission ("FERC") Order 2222,  
14 the Company will have to engage in the costly and inefficient coding of rates.  
15 Customer/1 is out of support with the vendor and makes integrations with third party  
16 technologies such as Meter Data Management Systems ("MDMS") increasingly  
17 difficult to support. Support costs are expected to rise, as is the complexity to support  
18 Customer/1.
- 19 • Financial and HR Systems: PPL Corporation recognized the importance of moving  
20 to a more integrated operating model, and appreciated the business, cost, and  
21 personnel efficiencies that could be realized by such a change. As a result,  
22 beginning in 2021, PPL Corporation began to pursue a "One PPL" strategy, aiming  
23 to create a shared services model where decision-making, maintenance, and

## Direct Testimony of Daniel Johnson

1 business activities would happen at the PPL Corporation enterprise level, with input  
2 from individual operating companies. PPL Corporation has recognized many  
3 benefits the transition to such a strategy could provide, but the disparate software  
4 that currently supports PPL Corporation's different operating companies is not  
5 equipped for the complex needs of a modern-day utility. PPL Corporation has  
6 determined that a key element to support the move to a "One PPL" strategy and  
7 improve current business processes is the implementation of a single Enterprise  
8 Resource Planning system ("ERP"). This ERP system will manage all HR, Supply  
9 Chain, and Finance functions across all four operating companies and will improve  
10 not only functionality at the operating company level, but greatly improve  
11 information gathering, reporting, and the ability to make data-driven decisions  
12 across the entire business.

13 As these platforms lose vendor support and vendors move towards offering  
14 cloud-based services, the Company's IT infrastructure – which is not well-suited for a  
15 migration to cloud-based services – will likely require bespoke, fit-for-purpose software  
16 patches and fixes to maintain the existing systems.

17  
18 **Q. Do the Company's IT infrastructure challenges affect the cost of providing utility**  
19 **service?**

20 **A.** Yes.

## Direct Testimony of Daniel Johnson

1   **Q.    How so?**

2    A.    As stated above, most of the Company's IT resources are spent keeping systems running  
3       – fixing hardware, patching software errors, and keeping the IT infrastructure stable so  
4       that the Company can carry out its day-to-day obligation to provide service. The cost-  
5       burden that this places on PPL Electric's customers is two-fold.

6               First, as these systems continue to age and lose support resources, the Company  
7       will be forced to invest more to keep its infrastructure at an acceptable level of  
8       efficiency, safety, and reliability. These necessary expenses will eventually be borne  
9       by customers, leading to higher rates with no consequent improvements for the  
10      customers; rather, those higher rates will be incurred to maintain aged systems.

11             Second, making capital investments to maintain these aging and inflexible IT  
12      systems stunts innovation and improvement. Focusing the efforts of the Company's IT  
13      personnel on keeping day-to-day operations running prevents the Company from taking  
14      a long-term view of its IT operations. If the Company's IT staff is solely dedicated to  
15      the day-to-day, they cannot evaluate new ways to leverage IT systems and new  
16      processes to improve customer experience, streamline operations-side efficiency, and  
17      allow the Company to most effectively use its resources to serve its customers.

18

### 19   **III.   PLANNED IT UPGRADES**

20   **Q.    How does the Company plan to address the challenges you have identified in your**  
21   **testimony?**

22    A.    The Company has developed a five-year plan to overhaul its aging IT infrastructure,  
23       reorient the Company's IT expenditures towards improving its IT operations, and

## Direct Testimony of Daniel Johnson

1 develop an understanding of how to use emerging technologies to effectively improve  
2 its operations. The plan was created as part of PPL Corporation's efforts to operate  
3 more efficiently by improving cooperation and information sharing across its  
4 jurisdictional utilities. Beginning in late 2023, PPL Corporation determined that it  
5 needed to better align the IT systems maintained by different utilities within the  
6 organization and to identify and study weaknesses and risks in the IT infrastructures of  
7 each utility. To carry out this goal, PPL Services engaged in a comprehensive IT  
8 systems review.

9  
10 **Q. What was the scope of that review?**

11 A. PPL Services examined the systems supporting the field, grid, customer service, ERP,  
12 and data management operations of its different jurisdictional utilities. In all, these  
13 systems account for between 50-60% of all IT expenditure across PPL Corporation's  
14 jurisdictional utilities.

15  
16 **Q. What were the findings of PPL Services' review?**

17 A. Overall, the review confirmed what PPL Corporation had already suspected – that the  
18 lack of a consolidated organizational platform created inefficiencies for the  
19 organization. The review also identified numerous risks stemming from the age,  
20 complexity, and inflexibility of its current IT infrastructure. Overall, PPL Services  
21 concluded that a number of the utility's systems were not meeting the needs of its  
22 customers or employees and were hindering PPL Corporation's efforts to operate

## Direct Testimony of Daniel Johnson

1 efficiently, share ideas within PPL Corporation's jurisdictional utilities and adapt to new  
2 challenges.

3  
4 **Q. Please provide some examples of the issues that the IT infrastructure was**  
5 **experiencing.**

6 A. The comprehensive IT systems review identified the following issues, for example:

- 7 • More frequent than desired outages to high and middle priority IT systems;
- 8 • Few applications and systems running on the cloud;
- 9 • Low rates of resolution for help tickets handled by automated systems with no  
10 human intervention;
- 11 • Proliferation of applications across operating utilities, many performing similar  
12 functions, and lack of integration of those systems at the Company level;
- 13 • Higher levels of expenditure on hardware maintenance and software patching than  
14 on preventative maintenance; and
- 15 • Many systems are at or near obsolescence risk, with as many as 10% of the operating  
16 systems, 32% of storage systems, and 52% of the network switches reaching end of  
17 life at or before 2025.

18  
19 **Q. How has PPL Corporation responded to the findings of its IT systems review?**

20 A. PPL Corporation determined that in addition to immediate repairs to stabilize and secure  
21 its IT infrastructure, it must make strategic changes to how it manages and maintains IT  
22 infrastructure. In 2024, PPL Corporation launched a targeted and strategic plan to  
23 consolidate its systems, overhaul its processes, and become more flexible to future



## Direct Testimony of Daniel Johnson

1 changes in IT. This plan includes the consolidation of platforms used across PPL  
2 Corporation's jurisdictional utilities into one unified platform to be used across all of  
3 the jurisdictional utilities. PPL Corporation anticipates that this migration to a unified  
4 platform will establish one set of shared costs that can be allocated across different  
5 affiliates, resulting in savings relative to each affiliate maintaining its own system  
6

7 **Q. Please explain PPL Corporation's plan to upgrade IT systems.**

8 A. PPL Corporation organized its plan around a number of different "value streams" –  
9 which are simply categories of solutions and people who build those solutions for a  
10 broader business objective. The value streams included in the plan are: (1) Advanced  
11 Customer Operations and Engagement, which includes CIS, customer experience  
12 platforms, and metering modernization; (2) Predictive Field Operations and Asset  
13 Management, which includes Work and Asset Management Consolidation; (3) Grid and  
14 Pipeline of the Future, which includes unified GIS and intelligent grid operations across  
15 all utilities; (4) Enterprise Technology, which includes human resources solutions and  
16 corporate and financial enterprise solutions; (5) Data analytics and AI; (6)  
17 Cybersecurity; and (7) Infrastructure and Other. Across all value streams, PPL  
18 Corporation's plan further includes three overlapping phases: Run, Grow, and  
19 Transform. The "Run" phase of plan is focused on stabilizing and securing day-to-day  
20 operations by replacing obsolete hardware and software systems. During this phase,  
21 PPL Services will also free up its IT resources for more proactive projects by contracting  
22 these more basic IT support operations to a managed services company. The "Grow"  
23 phase will focus on preparing PPL Corporation's different utilities and employees to

## Direct Testimony of Daniel Johnson

1 implement a more cohesive and efficient IT infrastructure. Finally, the “Transform”  
2 phase of the plan will focus on bringing PPL Services’ IT systems and capabilities into  
3 the future.

### 4 5 **IV. RUN PHASE**

#### 6 **Q. How will day-to-day operations change during the “Run” phase?**

7 A. The Run phase of the IT upgrade strategy, which began in 2025, focuses on making  
8 changes that will meet the immediate needs of the Company’s employees and customers  
9 while freeing up resources to carry out PPL Electric’s long term IT goals. This is  
10 expected to produce short-term improvements by reducing the number of recurring IT  
11 incidents, increasing the number of issues resolved through automated fixes, reducing  
12 backlogs, and adding new and improved security services.

#### 13 14 **Q. How does the Company plan to free up IT employees and focus on long-term goals?**

15 A. The Company has entered into a Managed Services Agreement with a vendor to manage  
16 and stabilize its day-to-day IT and cybersecurity operations.

#### 17 18 **Q. What services are included as part of the Managed Service Agreement?**

19 A. The Managed Services Agreement covers three primary IT functions previously  
20 performed by PPL Electric employees: (1) application managed services; (2) managed  
21 security services; and (3) infrastructure managed services. By transferring these  
22 functions to an outside vendor, PPL Electric expects to reduce IT operations risk, reduce  
23 duplication of applications and systems, increase automation, and add new and

## Direct Testimony of Daniel Johnson

1 improved IT security services, thereby making the Company's systems more secure and  
2 more efficient.

3  
4 **Q. How will the Managed Services Agreement create cost-savings?**

5 A. The Managed Services Agreement includes a commitment by the vendor to reduce PPL  
6 Electric's IT operations costs for functions within the scope of the MSA by 50% over a  
7 five-year span. In addition, the vendor has agreed to partner with PPL Electric to share  
8 in the costs to transition to the managed services structure.

9  
10 **Q. How will the Managed Services Agreement enable PPL Electric to focus on its**  
11 **long-term IT goals?**

12 A. By transferring employee time devoted to day-to-day operations and cutting IT  
13 operation costs, the Managed Services Agreement will free up PPL Electric's employee  
14 capacity for investment in skills training as well as identifying and implementing its  
15 new consolidated platforms.

16  
17 **V. GROW PHASE**

18 **Q. Why does the IT upgrade plan contain a "Grow" phase?**

19 A. The Grow phase is intended to make sure that the correct IT policies, organizational  
20 structures, and talent are in place before PPL Electric makes extensive investments in  
21 new operations.

## Direct Testimony of Daniel Johnson

1   **Q.   Describe the policies that PPL Electric will implement to ensure that the upgrades**  
2       **to IT systems are cost effective.**

3   **A.**   To use new IT systems to meaningfully improve its operations, PPL Electric will  
4       maximize the value the new systems can bring, measure that value, and ensure that  
5       employees are positioned to take advantage of value-added systems. To that end, the  
6       Grow phase will implement the following policies:

- 7       • **Modernize IT Financial Management:** IT Financial Management is a way for  
8       companies to track the financial performance of their IT infrastructure. By adopting  
9       tools and identifying metrics that will track the performance of its IT systems in real  
10      time, the Company will be better able to evaluate the state of its IT infrastructure  
11      and the actual benefits produced by different IT system changes.
- 12      • **Scaled Agile Framework (SAFe):** PPL Electric will train its employees to  
13      implement the SAFe approach. SAFe relies on groups of employees from across  
14      different operations teams and prioritizes flexible decision making, collaboration,  
15      and solutions that best serve PPL Electric's end-goal. The Company will implement  
16      SAFe training for its business, IT, and Field Operations Teams, alongside more  
17      conventional IT skills development.
- 18      • **Value Realization Office:** The creation of a Value Realization Office, with a staff  
19      of individuals dedicated to overseeing the IT upgrades, tracking and reporting the  
20      effectiveness of different parts of the plan, and assisting operations teams in  
21      implementing these new systems.

## Direct Testimony of Daniel Johnson

- 1       • **Assessment and Preparation for New Programs:** PPL Electric is undertaking an  
2       organization-wide assessment of its work efficiency and determining the best way  
3       to incorporate new IT systems to make its operations more efficient and effective.
- 4       • **Skills Development:** PPL Electric is investing in training its employees to adjust  
5       to working with the new, consolidated platforms and managed services  
6       arrangements, learning how SAFe will function, and implementing uniform  
7       cybersecurity best practices.
- 8       • **Data & AI:** PPL Electric is actively recruiting individuals who have a background  
9       in data analytics and AI to build a team that will be able to determine how to  
10      implement new machine learning and AI technologies in a way that meaningfully  
11      improves operations.

12  
13   **Q.    When will these policies be implemented?**

14   A.    While implementing these policies and programs will be an ongoing project, the  
15   majority of these policies and organizational changes will be fully adopted by the end  
16   of 2025. Programs such as building up the capabilities of the Data & AI value stream  
17   and identifying automation efficiencies are expected to be ongoing throughout the  
18   implementation of IT upgrades.

19  
20   **VI.   TRANSFORM PHASE**

21   **Q.    Describe the Transform phase of the Company's plan to upgrade IT systems.**

22   A.    The Transform phase is the implementation of PPL Electric's selected next-generation  
23   IT systems through different value streams, and the creation of a Data and AI team

## Direct Testimony of Daniel Johnson

1 within IT dedicated to studying advancements in and possible uses for AI and other  
2 emerging technologies.

3  
4 **Q. Will the Company implement all of these IT changes simultaneously?**

5 A. No. The Company will roll out platform changes over time, beginning with its CIS and  
6 ERP operations.

7  
8 **Q. Has the Company determined which platforms it will use for its CIS and ERP  
9 platforms?**

10 A. Yes. The Company has chosen to implement SAP's cloud-based systems as its "wall-  
11 to-wall" CIS and ERP platforms.

12  
13 **Q. How did the Company select the SAP platform?**

14 A. PPL Electric issued a request for quotes ("RFQ") to qualified vendors that have  
15 experience in the utility industry and have the capabilities necessary to meet current and  
16 future needs. PPL Electric then reviewed and evaluated the responses to the RFQ using  
17 standardized criteria.

18  
19 **Q. What CIS and CX needs did the Company identify?**

20 A. The Company determined that adequate CIS and CX platforms deployed across all  
21 jurisdictional utilities would need the following:

- 22 • **Billing:** PPL Electric's billing involves multiple rate structures, such as time-of-  
23 use, time variable (real-time pricing), demand-based, and tiered pricing. The CIS

## Direct Testimony of Daniel Johnson

1 platform must support these complex billing models, ensuring that customers are  
2 billed accurately. In addition, automated billing, payment processing through  
3 various channels (online, mobile, paper), and integration with financial institutions  
4 are critical.

- 5 • **AMI & Smart Grid Integration:** The CIS platform must be able to integrate with  
6 advanced metering infrastructure (“AMI”) technologies. This integration allows for  
7 real-time data collection and analysis, supporting load forecasting, outage  
8 management, and efficient resource allocation. Processing these large datasets and  
9 generating useful recommendations will help the Company maintain grid reliability.
- 10 • **Customer Self-Service:** Modern customers expect transparency and control over  
11 their utility accounts. PPL Electric’s next CX platforms must include intuitive web  
12 and mobile self-service portals where customers can view usage data, make  
13 payments, and report issues. The systems should also use different communications  
14 channels – such as e-mail and SMS text messages– to ensure that customers receive  
15 timely notifications about outages, billing updates, and other critical information.
- 16 • **Automated Regulatory Reporting:** Given the regulatory landscape, the CIS must  
17 facilitate automated reporting to various oversight agencies. An effective regulatory  
18 reporting system should provide secure data management, audit trails, and features  
19 that help the utility maintain compliance with state and federal regulations. This not  
20 only minimizes legal risks but also builds trust with customers and regulators alike.

## Direct Testimony of Daniel Johnson

1    **Q.    What risks are managed or mitigated by the implementation of a new CIS?**

2    A.    Moving forward with one modern CIS system will address a number of key risks, most  
3           importantly, cybersecurity and obsolescence risks with the Company’s current systems.  
4           A modern, integrated CIS will enable consistent and centralized security procedures  
5           across PPL Corporation’s operating companies as opposed to the inconsistent approvals  
6           and versions they currently work in.

7  
8    **Q.    What are the expected capital costs to the Company for the Advanced Customer**  
9           **Operations and Engagement projects?**

10   A.    As I noted earlier in my testimony, CIS and CX are considered along with other system  
11           upgrades and enhancements as a suite of solutions in a value stream called “Advanced  
12           Customer Operations and Engagement.” PPL Electric expects to spend \$82 million in  
13           capital on this suite of solutions, including CIS and CX, during the Fully Projected  
14           Future Test Year (“FPFTY”). Capital spending for this area during the Historic Test  
15           Year (“HTY”) was \$73.3 million. Capital spending for this area during the Future Test  
16           Year (“FTY”) will be \$82 million.

17  
18   **Q.    What ERP needs did the Company identify?**

19   A.    The Company determined that an adequate ERP system would need the following:  
20           •    **Financial Management:** An ideal financial management system would enable  
21           accounting and budgeting to occur at the same level of detail. The ERP system must  
22           support utility-specific financial management functions, including budget and  
23           forecasting, as well as multi-entity financial consolidation. Accurate financial



## Direct Testimony of Daniel Johnson

1 reporting and regulatory compliance are essential for ensuring transparency and  
2 stakeholder confidence.

- 3 • **Asset and Supply Chain Management:** An ERP platform must offer asset  
4 management features for the full lifecycle of an asset. This includes an asset's  
5 procurement, maintenance, maintenance scheduling, and eventual replacement  
6 planning. Effective supply chain management is vital to ensure that parts and  
7 equipment are available at all these stages.
- 8 • **Human Capital Management ("HCM"):** An ERP system that incorporates  
9 human capital management can streamline workforce scheduling, payroll  
10 processing, and compliance with labor regulations. This is especially important for  
11 managing the Company's crucial Field Operations. An effective HCM module  
12 ensures that the right personnel are available to handle operational tasks.
- 13 • **Business Intelligence and Analytics:** PPL Electric's next ERP platform will  
14 include analytics capabilities that track key performance indicators ("KPIs"), predict  
15 maintenance needs through AI, and support long-term thinking.

16  
17 **Q. Did the Company consider any other factors in selecting a platform?**

18 A. Yes. In addition to these criteria, PPL Electric evaluated the platforms based on their  
19 ability to integrate with other systems, vendor support, adaptability to new conditions  
20 such as regulatory requirements, and total cost. Additionally, PPL Electric determined  
21 that a cloud-based platform was optimal due to overall advantages in support, reduced  
22 overhead, and cyber-security support. For example, many vendors are investing in new  
23 capabilities and features for cloud-supported products that are not available for legacy

## Direct Testimony of Daniel Johnson

1 on-premises systems. Cloud-based systems are also advantageous in that system  
2 updates are automatically pushed to customers, eliminating the need for scheduling and  
3 implementation of updates, some of which may be critical to system security. Cloud-  
4 hosted products also offer additional business continuity and disaster recovery  
5 capabilities by increasing redundancy and decreasing the costs of conducting disaster  
6 recovery testing. Cloud providers offer multiple data centers and include redundant  
7 infrastructure to enable secure data storage. This redundancy protects against  
8 significant downtime or failure of infrastructure. Cloud-hosted products also decrease  
9 dependence on internal resources for disaster recovery testing and planning.

10  
11 **Q. When will the Company implement the new systems?**

12 A. By the end of 2027, the SAP platform will be fully implemented for ERP operations  
13 PPL Corporation wide and for CIS operations for PPL Electric. However, portions of  
14 this platform will be in service by the end of the FPFTY, which is why there are capital  
15 costs associated with the ERP platform are included in this rate case.

16  
17 **Q. What are the expected capital costs of the Company for the planned upgrades to**  
18 **the ERP and other Enterprise Technology?**

19 A. For the Enterprise Technology value stream, which includes ERP but also standard  
20 enterprise-level projects, the Company expects to spend approximately \$36 million in  
21 capital during the FPFTY. Capital spending in this area during the HTY was  
22 approximately \$11.6 million. Capital spending in this area during the FTY is expected  
23 to be approximately \$37 million.

## Direct Testimony of Daniel Johnson

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**Q. What other IT infrastructure improvements will the Company implement?**

A. Over time, all PPL utilities will implement additional changes to customer service interfaces and across grid and field operations. On the Customer side, the Company plans to create more integrated customer experience (“CX”) platforms that better facilitate self-service for customers and allow them to switch seamlessly between phone, mobile app, and web or electronic communications with the Company. This will include upgrades to the current IVR systems.

For field operations, the Company plans to implement updated systems that will modernize field-time entry, enable real-time field information sharing by its employees, and will examine the use of predictive technologies to improve vegetation management.

Finally, the Company’s grid and pipeline operations plan to unify its GIS systems with PPL Corporation’s other jurisdictional utilities, use predictive weather models to better assess system risks, and employ the use of drones for asset inspections.

**Q. Has the Company determined what system it will use to implement these new improvements?**

A. Not yet, but we are nearing final selection of some systems that will serve the functions described above. We are continuously monitoring industry implementation of technological improvements and – as with the ERP and CIS platforms – determine the criteria for selecting the right systems.

## Direct Testimony of Daniel Johnson

1 **Q. What are the expected capital costs to the Company for the planned upgrades to**  
2 **IT systems to support Grid & Pipeline and Field Operations and Asset**  
3 **Management?**

4 A. For the Grid and Pipeline of the Future value stream, the Company expects to spend  
5 approximately \$7 million in capital during the FPFTY. Capital spending for this area  
6 during the HTY was approximately \$30 million. Capital spending for this area during  
7 the FTY is expected to be approximately \$23 million.

8 For the Field Operations and Asset Management value stream, the Company  
9 expects to spend approximately \$9 million in capital during the FPFTY. Capital  
10 spending for this area during the HTY was approximately \$16 million. Capital spending  
11 for this area during the FTY is expected to be approximately \$20 million.

12  
13 **Q. How do you plan to manage reliability risks from implementing new technologies?**

14 A. Given the critical role that the Company serves and the importance of IT systems in  
15 supporting that role, careful evaluation of emerging technologies is even more  
16 important. The goal of the Transform initiative is not to place the Company on the  
17 bleeding edge of technological advancement – it is to carry out long-term, thoughtful  
18 assessments and implementations of emerging technologies and their use cases. By  
19 thinking about transformative technologies early and carefully, we will be positioned to  
20 implement any technological innovations in a way that makes financial and practical  
21 sense for the Company and its customers.

## Direct Testimony of Daniel Johnson

1    **Q.    How will AI be utilized in the Transform phase of the upgrade plan?**

2    A.    Developments in AI include promising technologies that may revolutionize grid  
3       management, cybersecurity, customer engagement, and data processing. If these  
4       technologies live up to their billing, the potential benefits to customers in the form of  
5       savings and operational efficiency will be significant. However, the Company's top  
6       priority remains the safe and reliable delivery of energy to customers, and there are still  
7       serious questions about these technologies that must be resolved before they can be  
8       relied on in sensitive parts of operations.<sup>1</sup> Therefore, the Company is committed to  
9       closely studying industry use-cases to determine where AI can create efficiencies, and  
10      where it creates unacceptable risks.

11

12   **Q.    Are there any areas where the Company expects to implement AI?**

13   A.    Yes. PPL Electric believes that there are ways to immediately free up resources using  
14       AI and other automation systems to carry out low-level, time-consuming, and repetitive  
15       tasks. These include cataloguing incidents, maintaining data sets and processing data  
16       to generate reports, managing login credentials and user access, and fixing and patching  
17       routine IT problems. In addition, the Data & AI team will use AI to examine asset  
18       planning and look for other organization-wide efficiencies.

19

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<sup>1</sup> See *DOE Delivers Initial Risk Assessment on Artificial Intelligence for Critical Energy Infrastructure*, DOE (Apr. 29, 2024), <https://www.energy.gov/ceser/articles/doe-delivers-initial-risk-assessment-artificial-intelligence-critical-energy>.

## Direct Testimony of Daniel Johnson

1 **Q. What are the expected capital costs to the Company for the planned upgrades to**  
2 **IT systems to support Data & AI and any other IT Infrastructure?**

3 A. For the Data & AI value stream, the Company expects to spend approximately \$9.1  
4 million in capital during the FPFTY. Capital spending for this area during the HTY was  
5 approximately \$3 million. Capital spending for this area during the FTY is expected to  
6 be approximately \$6.5 million. For the Infrastructure and Other value stream, the  
7 Company expects to spend approximately \$17 million in capital during the FPFTY.  
8 Capital spending for this area during the HTY was approximately \$12 million. Capital  
9 spending for this area during the FTY is expected to be approximately \$20 million.

10  
11 **VII. CYBERSECURITY**

12 **Q. What is the primary goal of the Company's cybersecurity operations?**

13 A. The primary goal of the Company's cybersecurity operations is to protect critical  
14 infrastructure, which includes grid operations and the operational technologies and the  
15 IT systems that keep these operations running.

16  
17 **Q. What is the current state of the cybersecurity landscape for utilities?**

18 A. Like the rest of its business operations, the current cybersecurity landscape for utilities  
19 has been complicated by new technologies such as interconnected management systems  
20 and smart grid systems. These interconnected technologies produce new layers of  
21 sensitive data containing customer and business information such as personal data,  
22 usage information, time of use information, and other information that can be exploited  
23 by savvy threat actors. Utilities in general are susceptible to cyberattacks due to their

## Direct Testimony of Daniel Johnson

1 broad geographic footprint and the number of “smart” devices deployed in the field and  
2 the interdependence between those devices and the software required to make them  
3 valuable.<sup>2</sup> They are also targets for sophisticated cyber criminals and nation states  
4 because of the potential scope of disruption that can be caused by a successful  
5 cyberattack.

6 In short, cybersecurity incidents pose tremendous risks to utilities and their  
7 customers and have the potential to result in disruption of energy delivery, destruction  
8 of physical and cyber assets, exposure of sensitive business and customer data, and  
9 disruption of day-to-day business operations, among other risks.

10  
11 **Q. What common cybersecurity threats does the Company experience?**

12 A. The Company is generally faced with two major forms of cybersecurity threats.  
13 Computerized attacks, such as malware and ransomware, are designed to exploit  
14 vulnerabilities in the Company’s IT systems to extract information or halt operations.  
15 Social engineering attacks, such as phishing, attempt to deceive employees or others  
16 with access to sensitive information or system access information into revealing that  
17 information to gain unauthorized access to systems. These two types of threats are often  
18 used together – for example, a social engineering attacker may include malware in a  
19 document, or a computerized attack may have been set up by obtaining sensitive  
20 information about IT systems through social engineering.

21  

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<sup>2</sup> E.g., The energy-sector threat: How to address cybersecurity vulnerabilities. | McKinsey.

## Direct Testimony of Daniel Johnson

1    **Q.    Please explain how cybersecurity strategy has evolved to combat these new threats.**

2    A.    In the past, utilities typically viewed cybersecurity as a one-time investment – vendors  
3        sold technology that met perceived threats, utilities purchased these solutions, and they  
4        then updated them as needed. Today, cybersecurity requires continuous attention,  
5        maintenance, employee training, and updates. Given the Company's reliance on its IT  
6        infrastructure to run their critical infrastructure, cybersecurity is now a central focus of  
7        our security operations, and a regular topic of discussion for all of the Company's  
8        operations.

9

10   **Q.    Does the current IT infrastructure contain vulnerabilities that could be exploited**  
11       **by threat actors?**

12   A.    Yes. Certain potential vulnerabilities were identified in PPL Electric's overall review  
13        of its systems. Many of the identified issues stem from the absence of a consolidated  
14        IT infrastructure with standardized processes and information access policies. As long  
15        as the Company maintains different systems across operating companies, many of these  
16        vulnerabilities will continue to exist.

17

18   **Q.    Will the planned IT upgrades address these vulnerabilities?**

19   A.    Yes. Overall, the planned upgrades will improve cybersecurity across the PPL  
20        Corporation utilities by consolidating all IT systems, which will mitigate many of the  
21        risks identified in PPL Electric's overall review of its systems. In addition, PPL Electric  
22        will reassess and strengthen different parts of cybersecurity infrastructure during each  
23        stage of the upgrade plan.



## Direct Testimony of Daniel Johnson

1

2 **Q. Please explain how the different phases of the planned upgrades will support the**  
3 **Company's cybersecurity infrastructure.**

4 A. The "Run," "Grow," and "Transform" phases of the upgrade plan will support the  
5 Company's cybersecurity infrastructure. In the "Run" phase, through its managed  
6 services agreement, the Company will solidify its recovery planning operations, which  
7 will ensure that in the event of an incident the Company will be capable of restoring its  
8 systems. The Company will also assess the different cybersecurity tools in use and  
9 consolidate them into one modern cybersecurity toolkit. As the upgrade plan moves  
10 into the "Grow" phase, we will assess application security, develop better protocols for  
11 vulnerability management and threat monitoring, and invest in cybersecurity skills  
12 training for employees. These are intended as organization wide preparations to make  
13 it easier to implement future cybersecurity programs. In the "Transform" phase, once a  
14 set of uniform protocols and systems is in place, our cybersecurity operations will  
15 implement advanced cybersecurity risk management, cloud security programs, more  
16 advanced identity and access management systems, and investments in specialized staff  
17 to secure the Company's operational technology. A visual depiction of the plan is  
18 included below:

## Cyber Focus Areas



1  
2  
3 **Q. Does the Managed Services Agreement include cybersecurity protection?**

4 A. Yes. Although the Company plans to maintain its own technology security team, the  
5 Managed Services Agreement will help the Company with additional cybersecurity  
6 resources for 24x7 security monitoring and detection, along with disaster recovery and  
7 business continuity operations when faced with cybersecurity threats or incidents.

8  
9 **Q. What are the expected capital costs to the Company for the planned upgrades to**  
10 **the cybersecurity value stream?**

11 A. The Company expects to spend approximately \$8.4 million in capital for cybersecurity  
12 initiatives during the FPFTY. However, once the systems and processes described in  
13 my testimony are fully implemented, the capital costs for cybersecurity are expected to  
14 decrease. Capital spending in this area during the HTY was approximately \$3 million.  
15 Capital spending in this area during the FTY is expected to be approximately \$8.1  
16 million.

## Direct Testimony of Daniel Johnson

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### **VIII. BENEFITS OF PLANNED IT UPGRADES**

**Q. Will the planned IT upgrades create benefits for the Company’s customers?**

A. Yes. While the primary motive for the upgrades is the long-term security and stability of IT systems and the Company’s critical infrastructure, they will also create long-term benefits for the Company’s customers. PPL Electric witness Lisa Norden summarizes the customer-services benefits of the upgrades in more detail in her testimony (PPL Electric St. No. 18), but they include new and enhanced self-service options for customers that will operate across integrated platforms, along with the ability for customers to begin interactions on one device and continue on another device.

**Q. How will the upgrades drive operational efficiencies that will benefit customers?**

A. The upgrades are expected to achieve the following operational efficiencies, among others: (1) support and licensing of multiple systems and efficiencies through centralized support at the PPL Corporation level; (2) streamlined implementation of new system functionality across all operating companies, including potential implementation of AI advancements; (3) reduction in manual data reconciliation and data collection to support enterprise-wide insights and analysis; (4) billing and process automations and handling time efficiencies for customer services operations; (5) reduction in clerical, engineering, and scheduler manual administrative work to support field operations; and (6) overall reduction in system maintenance and manual process for enterprise services.

## **Direct Testimony of Daniel Johnson**

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

2   **A.**    Yes, it does.

## CHIEF TECHNOLOGY OFFICER

***Technology Innovation | Revenue Growth | Cost Control | Process Improvements | Team Leadership & Development***

Innovative technology executive offering a proven record of success directing global teams, developing, and leading a forward-looking support structure and scalable infrastructure, along with delivering an architecture that fully aligns with business needs while allowing future development and growth. Valued for providing technical leadership for enterprise systems and security architecture, engineering, and implementations, specializing in digitization, automation and operational streamlining. Demonstrated ability to build and lead technical and non-technical teams that deliver high-performance in the maintenance, management, and enhancement of secure and stabler computing environments. Highly purposeful and driven by data-driven decision-making, consistently striving for measurable results and continuous improvement.

### ***Core Competencies***

- IT Strategy Development
- Information Security
- Enterprise Implementations
- Artificial Intelligence (AI)
- Technical Project Management
- Solution Design, Testing, Deployment
- Enterprise Vendor Management
- Disaster Recovery / Business Continuity
- Cross-Functional Team Leadership
- IT Governance
- Service Delivery
- Mergers & Acquisitions
- Process Optimization & Automation
- Budget Planning / Management
- Executive & Board Presentations
- Public & Private Clouds
- DevOps / Data Center Virtualization
- Data Analytics & Insights

### ***Professional Experience***

**2024 – Present • PPL • Providence, RI**

#### **Chief Information Officer**

Manage an organization of over 500 individuals with an annual IT budget exceeding \$450 million. Responsible for innovation, digital technology, customer technology, field operations technology, grid-pipeline-generation technology, enterprise technology, infrastructure and technology operations, and Agile transformations. Supervise all technologies, applications, enterprise architecture, including security and middleware, data analytics, and AI platforms. Lead a team of 7 senior management professionals.

- Delivered technology solutions for a \$9B US utility business offering a wide range of products and services across Kentucky, Pennsylvania, and Rhode Island.
- Implementing a 5-year IT reinvention strategy with an investment of \$1.5 billion to enhance digital customer experience, modernizing grid and field operations, adopting a cloud-first infrastructure, enabling data-driven decision making, upgrading ERP systems, and establishing an agile IT operating model.
- Achieving a reduction in net operating costs, with projected IT Operations and Maintenance (O&M) savings of \$128 million over five years. These savings are anticipated to be realized by 2029 through strategic optimization and cost management initiatives.
- Stabilized IT operations and drove operational excellence by targeting a 10% reduction in Mean Time to Recover (MTTR) from incidents by Q4 2025, enhancing system reliability and response efficiency.
- Enhanced planning and delivery effectiveness by advancing SAFe Agile practices, targeting the launch of 20+ Agile Release Trains (ARTs) by 2026 to drive enterprise agility and alignment.
- Increased financial visibility and transparency by driving a 3x improvement in speed to financial and value insights in 2025, enabling faster, data-driven decision-making.
- Upskilled the workforce by launching 20+ technology learning paths by 2026, fostering continuous learning and strengthening organizational technical capabilities.
- Enabling growth and innovation by driving a 4x increase in capital allocation toward growth-focused investments by 2029, aligning funding with strategic priorities.
- Improved ease of doing business for customers and colleagues by driving 85%+ adherence to out-of-the-box functionality and delivering a unified technology platform to enable a consistent colleague experience by 2025.
- Delivering business outcomes across value streams by enabling \$261 million in IT reinvention lead Operations & Maintenance (O&M) savings over 5 years, aligning technology transformation with enterprise cost optimization goals.

**2013 – 2024 • GUARDIAN LIFE • New York, NY****Chief Technology Officer and Head of Technology**

Directed an organization of 2,800+ individuals with an annual \$400+ MM IT budget, overseeing innovation, divisional CIOs, digital technology, enterprise technology, technology operations, and Agile transformations. Oversee divisional CIOs, enterprise technologies, all applications, enterprise architecture, including security and middleware, data analytics, and AI platforms. Manage a team of 8 senior management professionals, including one in India. Serve as a voting member of strategic investment leadership team.

- Delivered technology solutions for a \$12B insurance business offering a wide range of products and services.
- Evolved a technology portfolio spanning 5 decades, including systems such as a policy admin system built 52 years ago and the recently launched digital consumer business, GuardianDirect.com.
- Led the modernization of workplace technology by implementing Office365, streamlining communication and collaboration tools, and enhancing productivity across the organization.
- Spearheaded the innovation of the desktop experience by introducing Macs, providing users with a more intuitive and efficient computing environment while ensuring compatibility with industry-standard software and tools.
- Orchestrated the migration of 80% of applications to cloud-based platforms, leveraging the scalability, flexibility, and cost-efficiency of cloud computing to modernize the organization's technology infrastructure.
- Established a robust data lake on cloud infrastructure, enabling advanced data storage, processing, and analysis capabilities to drive informed decision-making and support data-driven initiatives across the organization.
- Significantly enhanced reporting and analytics capabilities by implementing over 30 machine learning models, empowering the organization with actionable insights and predictive analytics to drive strategic decision-making and operational efficiency.
- Successfully migrated the customer experience to digital platforms, expanding the organization's digital footprint to over 25 million customer touchpoints, resulting in increased accessibility, streamlined interactions, and enhanced customer satisfaction.
- Integrated digital technologies into various aspects of business process, operations, and customer experiences.
- Spearheaded the use of technologies including cloud computing, data analytics, artificial intelligence, and automation to enhance efficiency, agility, and innovation, resulting in significant increases in digital adoption and digitally enhanced capabilities.
- Drove a cloud-first strategy, leveraging 120+ Software-as-a-Service solutions, migrating 80% of total applications to AWS, and achieving the highest levels of system stability over the past 20 months.
- Enabled a truly data-driven organization with advanced analytics, intelligent automation, data visualization, and reporting.
- Supported the collection, processing, and scheduling of data to inform human and automated business decision making, including claim fraud detection and predictability of claim incidence.
- Implemented artificial intelligence-enabled solutions across the enterprise including automated digital customer experience, cognitive agents, process optimization, digital enrollment, computer vision for dental claims review, and email automation.
- Fostered a culture of innovation, cultivating strong partnerships, hackathons, thought exchanges, and technology roadmaps, resulting in the submission of 4450+ ideas and the launch of new capabilities benefiting consumers and colleagues.
- Worked closely with the business teams to launch over 100 teams, 39 of which are organized into 8 Agile Release Trains.
- Trained over 3800 resources with 60+ employees certified as SAFe professionals, resulting in an average team happiness rating of 4 out of 5.
- Collaborated with deal teams to identify and diligence potential direct investments in start-ups, prototype and pilot commercial solutions, and leverage insights for Guardian's core businesses.

**2007 – 2013 • NBC UNIVERSAL, COMCAST • New York, NY****Chief Technology Officer and Senior Vice President**

Led a technology organization of 800 individuals and managed an annual budget of \$190 MM, overseeing architecture, engineering, and 24/7/365 operations for all technology, from desktop to data center. Implemented an IT Service Provider model, fostering collaboration across digital, workplace, software, platform, infrastructure, service delivery, and service management teams.

- Provided cutting-edge technology solutions for a \$26B media & entertainment business spanning 10 industries and 40+ brands, with major operations in New York, Los Angeles, Washington DC, Miami, and London.
- Led the evolution of a robust technology portfolio encompassing 120 projects, 800 applications, 2,300 application platform instances, 8,000 servers, 11 petabytes of storage, 5 data centers, and 2,800 network devices connecting 26 countries with 500 circuits and 40,000 desktops, tablets & smartphones.

- Spearheaded the 5 most productive years for Technology during historic times, delivering over 600 business initiatives, including high-profile events such as the Super Bowl, (5) Olympic Games, (5) US Elections, SAP ERP, Ad Sales Upfronts, Universal & Comcast Integrations, and prevented 35,000 defects from being released into production.
- Partnered with NBC Olympics to design, build, and support technology solutions for the 2012 London, 2010 Vancouver, 2008 Beijing summer and winter games, ensuring rapid deployment and flexibility to deliver cost-effective content acquisition, production, and distribution solutions.
- Collaborated closely with the NBC News Elections team to provide uninterrupted event coverage support for 200+ hours during 22 Live Primaries, ensuring 100% uptime during the 24-hour studio coverage for Super Tuesday, resulting in significant cost savings through innovative network solutions.
- Introduced fresh perspectives on modernizing the technology portfolio, creating flexibility, reducing costs, and enhancing performance. Implemented full-stack application private cloud solutions, achieved \$15MM in savings, and drove adoption of Enterprise Data Warehouse environment across key business areas.
- Successfully leveraged public and private cloud technology to host services related to human resources, payroll, employee benefits, and corporate systems during the NBCUniversal and Comcast merger, driving innovation and improving financial performance.
- Collaborated with business partners to consolidate worldwide financials, supply chain, and human resource systems into a centralized SAP system, ensuring compliance with banking and reporting standards and providing a seamless solution for multiple currencies, time zones, and languages.
- Worked closely with the Ad Sales and Research team to improve data warehouse loads by 25%, streamlining access to critical ratings and sales data, optimizing data schemas, and enabling informed decision-making on \$6 billion of revenue.
- Introduced game-changing technologies at every layer of the technology stack, including enterprise data warehousing (Teradata), virtualized desktops and servers (VMWare), SAN Replication (RecoverPoint), backup deduplication (Data Domain), Nexus network switching (Cisco), and core WAN (ASR 9000).

#### **2004 – 2007 • NBC UNIVERSAL, GENERAL ELECTRIC (GE) • New York, NY**

##### **Vice President, Technology Governance**

Established and spearheaded the inaugural Technology Governance organization at General Electric, overseeing a global team of 80 individuals and managing a sizable \$15MM budget. Cultivated strategic partnerships with senior business leaders, leveraging four years of relationship-building to gain insight into their challenges and devise optimal technical solutions. Directed Information Security, Quality Operations, 24/7/365 IT Operations Center, Technical Account Management, and International service delivery to ensure operational excellence and client satisfaction.

- Pioneered and enforced compliance for critical processes, including Technology Green Light (NTI), Technology Stack Standardization, Top 40 (Demand Management), Bottom 10, 2-Minute Drill, Design Reviews, Organizational Maturity, Change Control, Long-Term Triage, and Resource Allocation, ensuring adherence to industry standards and best practices.
- Drove the consolidation, design, and implementation of regional core compute solutions across multiple regions, resulting in a substantial annualized savings of \$11MM. Enhanced the compute infrastructure in Washington DC by significantly boosting bandwidth and storage capacity, consolidating compute functions, refreshing network components, and migrating to a new IP core at News Channel. Successfully delivered a \$1.4MM project focused on technology and operations consolidation for NBC News, CNBC Europe, and Universal properties based in London.
- Headed the integration of Media Technology, facilitating the acceleration of Digital Media growth by consolidating Internet & Broadband, Software Development, and Air & Production technology teams, and transitioning over 250 personnel into new roles.
- Orchestrated the infrastructure divestiture for TVS Media General, facilitating the sale of four sites for \$600MM and ensuring seamless transition within 61 days of the announcement. Completed the extensive planning required to sustain services post-close or transition systems from NBCU to MG control, minimizing disruption to the stations' operations.
- Led the integration of iVillage for NBC Universal with a budget of \$2.8MM, streamlining back-office infrastructure, launching new business initiatives, and providing technical solutions for channel expansion and divestiture, all while optimizing resources and maximizing efficiency.
- Oversaw CTO service delivery for Olympic Games in 2006 Torino and 2004 Athens, collaborating with centralized technology teams and the NBC Olympics team to build a robust infrastructure supporting online, event, and remote operations.
- Steered the increased utilization of shared services within the Television Operations & Production Services organization, optimizing projects such as Artworks, Today Show HD, WNBC HD, NFL HD, Edit CoE, Elections 2006, Start-Over (Time Warner), Disaster Recovery, NOC Firewall Audit, and Media Content Distribution for NBC Network Projects.

#### **2000 – 2004 • GENERAL ELECTRIC (GE) • New York, NY**

##### **Client CIO, Business Solutions**

Headed a dynamic team of 110 contractors and employees, managing a substantial \$17MM budget while spearheading IT strategy, software development, business digitization, technology rationalization, and Six Sigma delivery for the GE Energy Products Commercial and Finance divisions, driving operational excellence and fostering innovation.

- Quarterbacked the digitization of a \$900MM China deal involving 5 customers, 4 design institutes, and 2 joint ventures, establishing infrastructure, implementing applications, and providing comprehensive training and support across 9 locations. Empowered 40 design reviews over 5 months, yielding significant \$1MM savings. Leveraged the success of the China Bundle Buy digitization to develop and deploy a model for European projects, resulting in \$3MM in savings in 2004.
- Managed the stabilization of the Customer Collaboration tool, the most accessed application on gepower.com, catering to over 20,000 registered users, 12,500 unique users, and 1.4MM page views per week. Enabled \$12MM in savings in 2002 by renegotiating supplier contracts, achieving a 25% reduction in license payments and a decrease in on-going maintenance from 20% to 13% of the license fee. Led a cross-functional team to stabilize performance and availability, improving response time by 24% and decreasing variation by 68%.
- Conceptualized and implemented the pioneering Materials Management (eTag) program, recognized as the leading use of RFID technology for Asset Management in the industry and featured in Info Week. Forged a strategic partnership with IBM for a for-profit collaboration, highlighting a keen ability to leverage industry-leading technology for operational excellence.
- Achieved a remarkable 50% reduction in fixed costs, amounting to \$1MM in 2003, through the strategic rationalization of applications, scope reduction to break-fix, and leveraging GDC contractors, demonstrating a strong commitment to enhancing efficiency and optimizing resources.

### ***Education & Certifications***

#### **Double Master of Business Administration (MBA) Information Systems and Finance**

Fordham University, New York, NY

#### **Bachelor of Science, Management Information Systems (MIS)**

LeMoyne College, Syracuse, NY

#### ***Training & Professional Development***

*Guardian: Justice, Equity, Inclusion, and Diversity (J.E.D.I) Master*

*Six Sigma Certification: Certified Black Belt, led team delivery of \$1MM in savings over 15 projects (2001-2003)*

*Executive Leadership: Graduated Experience Information Management Programs (2021)*

*GE Crotonville: Attended several leadership training courses (2000-2006)*

### ***Professional Affiliations***

Member, NPower National Advisory Council (Creates pathways to economic prosperity by launching digital careers for military veterans and young adults from underserved communities.)

President, Bethlehem Lacrosse Club (a 501c3 organization that provides an enjoyable development experience with the program while learning lacrosse for boys and girls from Kindergarten to 6th grade.)



**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 20**

**Direct Testimony of James Conrad**

**Topics:   Electric Vehicles**

**Dated: September 30, 2025**

## Direct Testimony of James Conrad

1   **I.    INTRODUCTION**

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

3   A.    My name is James Conrad, and my business address is 827 Hausman Road, Allentown,  
4       PA 18104.

5

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

7   A.    I am employed by PPL Services Corporation (“PPL Services”), a subsidiary of PPL  
8       Corporation and an affiliate of PPL Electric Utilities Corporation (“PPL Electric” or the  
9       “Company”) as Senior Director of T&D Smart Grid & Automation.

10

11   **Q.    What are your responsibilities as Senior Director of T&D Smart Grid &**  
12       **Automation?**

13   A.    As Senior Director of T&D Smart Grid & Automation, I direct several teams that  
14       support the Company: PPL Electric’s Distribution Control Center (“DCC”) Engineering  
15       team that supports the Company’s ADMS system and its advanced applications; the  
16       Company’s Transmission and Distribution (“T&D”) Supervisory Control and Data  
17       Acquisition (“SCADA”) team that provides engineering and programming of remote  
18       devices; the Company’s Distribution Automation team that performs programming of  
19       pole-top device controllers; its DER Management team that supports the PPL Electric  
20       Distributed Energy Resources (“DER”) Management Pilot Program; and the  
21       Company’s team that sets the enterprise strategy for integrating DERs and two-way  
22       power flow into the Distribution system.

23

## Direct Testimony of James Conrad

1   **Q.    What is your educational background?**

2    A.    I received a B.S. degree in Electrical Engineering from Pennsylvania State University  
3           in May 2005 and a Master's degree in Systems Engineering from Pennsylvania State  
4           University in December 2010.

5  
6   **Q.    Please describe your professional experience.**

7    A.    I have worked at several companies since I graduated from Penn State in May of 2005,  
8           including 13 years in the energy industry and 7 years in the defense industry. Below is  
9           a list of my positions since joining the Company in 2016.

- 10       •   January 2016 – November 2016 – Senior Engineer at PPL Electric – I was  
11           responsible for developing Engineering and Construction Specifications,  
12           programming, and work methods, primarily around remote-operable Distribution  
13           sectionalizing devices.
- 14       •   November 2016 – December 2018 – Supervisor of Distribution Standards at PPL  
15           Electric – I led a group of engineers responsible for creating Engineering and  
16           Construction specifications for Distribution system hardware.
- 17       •   December 2018 – June 2020 – Manager of Relay Test at PPL Electric – I led a group  
18           of 50 supervisors, engineers, and technicians supporting the testing, troubleshooting,  
19           and installation of relay equipment at Distribution and Transmission substations.
- 20       •   June 2020 – April 2021 – Manager of Distribution Control Center at PPL Electric –  
21           I led a group of 50 supervisors, operators, and dispatchers supporting the 24/7 real-  
22           time operation of the electric distribution grid, which included storms and emergent  
23           work.

## Direct Testimony of James Conrad

- 1       • April 2021 – May 2022 – Director of Distribution Operations at PPL Electric – I led  
2       a group of about 120 operators, linemen, and engineers. This group was responsible  
3       for overseeing the 24/7 operation of the electric distribution grid, which included  
4       storms and emergent work. My duties also included work towards the Company’s  
5       DER Management Pilot and emerging strategies and technologies.
- 6       • May 2022 – September 2024 – Director of IT Product at PPL Services Corporation  
7       – I oversaw an IT product portfolio including Asset Management, Electric Control,  
8       and Gas Management applications. My duties included successful implementation  
9       and integration of these technologies at Rhode Island Energy as part of PPL Corp.’s  
10      acquisition from National Grid.
- 11      • September 2024 – present – Senior Director of T&D Smart Grid & Automation –  
12      My job responsibilities are listed above.

13  
14   **Q.   What is the purpose of your testimony?**

15   A.   The purpose of my testimony is to describe the Company’s proposed Electric Vehicle  
16       (“EV”) Time-of-Use (“TOU”) Charging Rebate Program, which is designed to help  
17       ensure that the distribution system is prepared to handle the challenges presented by EV  
18       charging.

19  
20   **Q.   Are you sponsoring any exhibits in this proceeding?**

21   A.   No.

## Direct Testimony of James Conrad

### II. ELECTRIC VEHICLES

**Q. Please describe the challenge that EVs pose to the distribution system.**

A. As EV adoption accelerates across Pennsylvania, it presents both opportunities and significant challenges for PPL Electric, particularly in how the Company plans, operates, and invests in its distribution system. While EVs represent a critical step toward decarbonizing the transportation sector, their widespread adoption introduces new dynamics that were not contemplated in traditional electric load growth models or infrastructure design standards.

At present, the most significant operational impacts can stem from load variability, unpredictability, and congestion risks at the distribution level. EV charging behavior (particularly residential Level 2 charging during evening hours) tends to increase net load during PPL Electric's peak demand periods. This can create operational stress on local feeders and substations such as increased transformer loading, especially in high-adoption neighborhoods. While this evolution requires careful planning and investment, it also presents the potential to improve grid flexibility, reliability, and overall system efficiency.

**Q. What is the Company doing to meet future challenges to the grid presented by vehicle electrification?**

A. To help mitigate future impacts of EV charging on the PPL Electric distribution grid, particularly during peak periods, the Company is proposing a Residential EV TOU Charging Rebate program.

## Direct Testimony of James Conrad

1   **Q.    Please provide a description of the Company's proposed Residential EV TOU**  
2   **Charging Rebate program.**

3   **A.**    The program's parameters are set forth in the proposed retail tariff submitted in this  
4           proceeding (see PPL Electric Exhibit GEO-1). As described therein, program  
5           participants will agree to charge their EVs using Level 2 chargers during the off-peak  
6           hours established for this program (i.e., 4:00 PM to 7:00 PM in the summer months of  
7           June, July, and August, and two daily periods in the winter months of December,  
8           January, and February - 6:00 AM to 9:00 AM and again 6:00 PM to 8:00 PM).  
9           Customers will register for this program through the Company's website, and their  
10          charging sessions will be verified via approved telematics, Level 2 EV chargers, or both.  
11          Scheduling the charging sessions will be the customer's responsibility.

12                If the customer conducts at least 80% of their charging during the off-peak hours  
13                in the applicable billing period, the Company will provide a flat rebate of \$10 to the  
14                customer in each billing period for which the criteria are met. All residential customers  
15                who own or purchase an EV will be eligible for the program, provided their EV charging  
16                is conducted with equipment that is on a list of compatible equipment certified by the  
17                Company. The program will be open to all residential EV owners for participation, but  
18                the participation will be capped at 2,000 customers. Additionally, PPL Electric may  
19                conduct targeted marketing to customers in areas where EV growth is forecasted to start  
20                causing system constraints in the next 5-7 years.

## Direct Testimony of James Conrad

1   **Q.    Why is the Company proposing this program?**

2    A.    First, the program could help mitigate the operational challenges that EV charging poses  
3       to the distribution system and potentially defer distribution system improvement  
4       projects, the costs of which are passed onto customers.  Although residential EV  
5       interconnections typically do not require system upgrade costs to be borne by the  
6       customer; if installed in large enough quantities, residential EV charging could cause  
7       constraints on the distribution system that are traditionally alleviated by new capacity  
8       projects on feeders and substations – thereby increasing the cost to all customers.  
9       However, given the nature of EV charging, the grid likely only needs to serve this type  
10      of load for short periods.  As such, if PPL Electric planners were confident that EV  
11      charging would occur substantially off-peak, capacity projects could potentially be  
12      deferred.

13               Second, the program could help determine the capability to shift load caused by  
14      EV charging, enable PPL Electric to gather data on the magnitude of load that can be  
15      shifted through customer incentives, and help develop future EV charging programs or  
16      adjustments to this program as tools that can improve grid reliability.

17

18   **Q.    Describe the data collection and verification that the Company plans in connection**  
19   **with this proposed program.**

20   A.    Charging session validation and data collection will be conducted via approved  
21       telematics or Electric Vehicle Supply Equipment (“EVSE”) platforms.  Customers will  
22       authorize data collected to be used by the Company for internal planning and operational  
23       purposes.  Data collected as part of this program will be used by PPL Electric’s

## Direct Testimony of James Conrad

1 engineering teams to improve planning practices, update standards and improve  
2 operational efficiency. Some examples of the ways in which this data may be used  
3 include: (1) determining EV charging load shapes, peak kW loading, and kWh capacity;  
4 (2) identifying or confirming the location of EV charging and associated growth rates  
5 for more accurate load forecasting and project planning; and (3) forecasting day-ahead  
6 load and associated distribution system constraints.

7  
8 **Q. Are you aware of similar programs that other electric utilities have implemented?**

9 A. Yes. PPL Electric's proposed Residential EV TOU Charging Rebate program is  
10 informed by other utilities' residential EV charging programs that both relieve grid  
11 strain and provide consumer incentives. For instance, Duquesne Light Company's  
12 Smart Charging Rewards program offers up to \$80/year to customers by pausing their  
13 EV charging during up to 15 summer events.

14  
15 **Q. Does this conclude your direct testimony?**

16 A. Yes, it does.



**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 21**

**Direct Testimony of Jason Hunt**

**Topics:   Economic Development**

**Dated: September 30, 2025**

## Direct Testimony of Jason Hunt

1    **I.    INTRODUCTION**

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

3    A.    My name is Jason Hunt, and my business address is 320 Market Street, 4<sup>th</sup> Floor,  
4       Strawberry Square, Harrisburg, 17101.

5

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

7    A.    I am employed as Manager of Business and Economic Development by PPL Services  
8       Corporation (“PPL Services”), a subsidiary of PPL Corporation.

9

10   **Q.    What are your responsibilities as Manager of Business and Economic**  
11       **Development?**

12   A.    As the Manager of Business and Economic Development, I work to help companies  
13       locate and expand their businesses within PPL Electric Utilities Corporation’s (“PPL  
14       Electric” or the “Company”) service territory. In this role, I work in partnership with  
15       consultants, economic developers, and state government stakeholders.

16

17   **Q.    What is your educational background?**

18   A.    I have a Bachelor of Arts degree in Political Science and History from Duquesne  
19       University. I also have a master’s degree in international relations from the University  
20       of Chicago.

21

## Direct Testimony of Jason Hunt

1   **Q.    Please describe your professional experience.**

2    A.    Prior to joining PPL Electric in 2024, I served as the director of international business  
3       attraction for the Pennsylvania Department of Community and Economic  
4       Development's Office of International Business Development ("OIBD"). On the OIBD  
5       team, I oversaw authorized investment representatives abroad and a team of project  
6       managers in Harrisburg. This group worked with partners across Pennsylvania to help  
7       international companies to choose Pennsylvania for their U.S. business expansions.  
8       Before joining OIBD in 2016, I worked in Washington, D.C. for four years, where I  
9       focused on international economic development, peacebuilding, and foreign policy in  
10      roles with the United States government and internationally focused nonprofits.

11

12   **Q.    What is the purpose of your testimony?**

13   A.    I will testify about the Company's economic development proposal, which will help  
14       support communities and spur economic development in PPL Electric's service  
15       territory.

16

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

18   A.    No.

19

## 20   **II.    ECONOMIC DEVELOPMENT**

21   **Q.    What is the Company's economic development proposal in this proceeding?**

22   A.    PPL Electric proposes to implement its Opportunity Pennsylvania Program, which is a  
23       proactive initiative to support communities in securing funding through the

## Direct Testimony of Jason Hunt

1 Pennsylvania SITES (“PA SITES”) initiative and other state, federal, or regional  
2 programs. In total, the economic development proposal would have an annual budget  
3 of \$400,000.

4  
5 **Q. Why is economic development important to the Company’s customers?**

6 A. Economic vitality in the communities served by PPL Electric is critical, and I believe  
7 that the Pennsylvania Public Utility Commission has an important role to play in  
8 furthering economic development. Economic development ensures better-paying jobs  
9 for families, increased tax revenues for local governments, and an overall higher quality  
10 of life for residents. By supporting business attraction, retention, and expansion through  
11 reliable infrastructure and strategic partnerships, PPL Electric can help foster  
12 sustainable growth and prosperity across its service territory.

13 Utility investment in economic development directly benefits customers by  
14 creating stronger, more resilient communities and a more efficient, cost-effective  
15 electric system. When utilities extend electric infrastructure to support new business  
16 sites, those upgrades—whether to transmission lines, substations, or distribution  
17 networks—often do not just serve the new customer. They can improve reliability and  
18 resiliency for the entire system. Every investment in the grid has the potential to reduce  
19 outages, enhance service quality, and prepare the system for future growth.

20 Also, as new companies connect to the grid, they increase overall system  
21 utilization, which helps spread fixed costs across a broader customer base. This helps  
22 put downward pressure on rates and improve affordability for all customers. In other  
23 words, a more efficiently used grid is a more cost-effective one.

## Direct Testimony of Jason Hunt

1           The benefits extend well beyond the technical upgrades. The proposed  
2           Opportunity Pennsylvania Program is intended to support the Company's communities  
3           by catalyzing site development across both developed and underserved regions. It is  
4           designed to attract new industries that generate jobs and stimulate local  
5           economies. Construction activity alone creates demand for materials, contractors, and  
6           services. Once operational, these businesses require everything from logistics and legal  
7           support to restaurants and retail—creating opportunities for small businesses and  
8           entrepreneurs to grow.

9           For residential customers, especially in areas that previously lacked major  
10          employers, this means access to new career paths, workforce training, and higher  
11          household incomes. Property values often rise in areas experiencing infrastructure  
12          investment and economic growth, giving homeowners increased equity and  
13          communities a stronger tax base. That, in turn, supports better schools, emergency  
14          services, and public amenities.

15          In short, utility investment in economic development is not just about powering  
16          new businesses, it is about empowering opportunity. It strengthens the grid, supports  
17          affordability, and helps communities thrive.

18  
19      **Q.   What are some of the factors impacting economic development and site selection**  
20      **today?**

21      A.   Site selectors, or site selection consultants, are professionals that help companies find  
22          new business locations and they are widely recognized as influencers and experts in the  
23          economic development field. In a recent study done by the Site Selectors Guild, a trade

## Direct Testimony of Jason Hunt

1 association for site selectors, utilities/infrastructure was the number one factor  
2 impacting the manufacturing site selection last year. Large manufacturing projects and  
3 data centers became more prevalent within the last year and a half, and these projects  
4 are the primary drivers of the site selectors feedback. Workforce/labor availability was  
5 the second most noted factor, followed by the availability of development-ready sites.

6  
7 **Q. What is the Company proposing to help address some of these concerns?**

8 A. PPL Electric commissioned a third-party analysis in 2024 to better understand how these  
9 national dynamics were playing out in its service territory. This study identified  
10 opportunities and challenges from an economic development and site selection  
11 perspective. One key finding was that PPL Electric's service territory had few high-  
12 quality industrial sites being marketed. Additionally, the territory was underrepresented  
13 in the first round of PA SITES awards from the Pennsylvania Department of  
14 Community and Economic Development, largely due to uncompetitive or absent  
15 applications. Recognizing this gap, PPL Electric aims to encourage economic  
16 development by helping communities prepare stronger applications and improve site  
17 readiness, thereby creating more sites for impactful investment projects and ultimately  
18 driving long-term growth and regional vitality.

19  
20 **Q. What is the Opportunity Pennsylvania Program?**

21 A. The Opportunity Pennsylvania Program is a proactive economic development initiative  
22 that offers two key forms of support to communities within PPL Electric's service

## Direct Testimony of Jason Hunt

1 territory: (1) reimbursement funding for completed site development work; and (2)  
2 technical assistance to help communities secure additional state and federal funding.

3 Under this program, PPL Electric would provide direct reimbursement funding  
4 to local governments and nonprofit economic development organizations to support site  
5 studies, due diligence, and infrastructure improvements. These grants would not only  
6 prepare strategic sites for future development but also serve as private sector match  
7 funding—an important criterion for PA SITES competitiveness.<sup>1</sup>

8 In addition, the program would fund expert consultants or grant writers to help  
9 communities—especially those with limited capacity—to prepare and submit  
10 competitive PA SITES applications. This technical support would enable communities  
11 to improve existing sites or gain control of strategic land, increasing their readiness for  
12 future development. As PA SITES funding is time-limited, this technical assistance  
13 ensures communities can act quickly to access available dollars. If successful, this  
14 support could be extended beyond PA SITES lifespan and adapted to help communities  
15 pursue other state or federal funding opportunities.

16 The Opportunity Pennsylvania Program is modeled after a successful program  
17 implemented by the Company’s regulated affiliate utilities, Louisville Gas and Electric  
18 Company (“LG&E”) and Kentucky Utilities Company (“KU”), in Kentucky. The  
19 affiliate utilities have been recognized as top utilities in economic development by *Site*  
20 *Selection Magazine* in 12 of the last 15 years. While PPL Electric’s operations are  
21 structured differently here, the Company plans to build on its affiliates’ experience and  
22 implement many of the best practices they have developed to position PPL Electric’s

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<sup>1</sup> <https://dced.pa.gov/programs/pennsylvania-strategic-investments-to-enhance-sites-program-pa-sites/>

## Direct Testimony of Jason Hunt

1 communities for growth and investment. In particular, the program in Kentucky is a  
2 reimbursement grant program. For the Opportunity Pennsylvania program, however, the  
3 Company proposes adding a technical assistance component, aimed at directly  
4 addressing some of the weaknesses identified by the above-referenced third-party  
5 analysis. Specifically, communities in PPL Electric's service territory with land  
6 available are not taking full advantage of the PA SITES funding that is only available  
7 to them for a limited time. Many communities in PPL Electric's service territory do not  
8 have the level of site preparation experience needed to prepare successful applications.  
9 The Company believes that the proposed program with the provided technical assistance  
10 will help fill this gap and encourage the communities served by PPL Electric to utilize  
11 resources that are available to them.

### 12 13 **Q. What will be the focus of the Opportunity Pennsylvania Program?**

14 A. The Opportunity Pennsylvania Program is designed to help communities take a  
15 proactive approach to attracting job creation and private investment through strategic  
16 site development. The goal is to improve "speed to market," helping communities  
17 become more competitive for high-impact investments and advancement of economic  
18 development.

19 Through a combination of technical assistance and reimbursement grants, the  
20 program encourages communities to complete key pre-development activities—such as  
21 geotechnical studies, environmental reviews, zoning and permitting, land clearing, and  
22 grading. These foundational steps are often underfunded but are essential to making  
23 sites competitive and ready for investment. Infrastructure remains a key consideration



## Direct Testimony of Jason Hunt

1 in site selection and this initiative would support initial due diligence for communities  
2 in preparing a site for development, including assessments of electric infrastructure  
3 requirements. As part of this critical groundwork, the Company will provide insights  
4 on electrical infrastructure upgrades or extensions required to serve high-impact  
5 projects on a subject site.

6 The program also is intentionally flexible to meet the diverse needs of different  
7 sites. PPL Electric proposes to provide a mix of technical assistance to help communities  
8 prepare strong applications for PA Sites funding and other state or federal programs,  
9 and/or reimbursement grants to cover the cost of completed site readiness work.

10 This dual approach ensures that communities are not only rewarded for taking  
11 initiative but also equipped to leverage additional public funding sources. By  
12 reimbursing eligible work after it is completed, the program ensures that funding  
13 supports real progress and maximizes impact.

14 Further, by making sites within the Company's service territory truly  
15 investment-ready, the program will help catalyze job creation and attract new and  
16 expanding businesses, which has benefits for infrastructure investments in the  
17 Company's service territory and overall economic expansion.

18  
19 **Q. Are there other reasons why the costs associated with this economic development**  
20 **proposal are appropriate for recovery in the Company's distribution rates?**

21 A. PPL Electric maintains that the costs associated with economic development are  
22 prudently incurred to provide service and contribute to the economic well-being of the  
23 community. Additionally, by attracting and retaining large customers, economic

## Direct Testimony of Jason Hunt

1 development spending can help the Company avoid losing load and the associated  
2 revenue. This reduces the risk of fixed costs being spread over a smaller customer base.  
3 By reducing that risk, it can lead to lower rates for existing customers than would  
4 otherwise be implemented without those additional customers.

5  
6 **Q. How will the Company administer the Opportunity Pennsylvania Program?**

7 A. PPL Electric will administer the Opportunity Pennsylvania Program directly, utilizing  
8 a set of guidelines and a governance structure based on its affiliates' Opportunity  
9 Kentucky Program. To ensure that PPL Electric's communities can benefit fully from  
10 the PA SITES program, the Company plans to go beyond the reimbursement grant  
11 model in Kentucky and utilize third-party vendors to provide the technical assistance  
12 that some of the communities may require to conduct due diligence and submit  
13 competitive grant applications for PA SITES funding. No vendors have been selected  
14 yet, but costs of such resources would be included within the proposed \$400,000 total  
15 program budget.

16  
17 **Q. What experience does the Company have in administering economic development  
18 programs?**

19 A. As noted previously, the Opportunity Pennsylvania Program is modeled after a  
20 successful program implemented by the Company's Kentucky affiliates, LG&E and  
21 KU. Since the inception of the Opportunity Kentucky Program in 2020, those  
22 companies have invested \$2.2 million in communities across their service territories,  
23 resulting in 893 new jobs and \$347 million of capital investment. The Opportunity

## Direct Testimony of Jason Hunt

1 Kentucky Program investments have helped communities served by LG&E and KU  
2 draw in an additional \$62 million in state funding, multiplying the impact of its  
3 investments.

4 The proposed Opportunity Pennsylvania Program draws upon that experience  
5 and adapts this program to a Pennsylvania context. For the reimbursement grant portion  
6 of the Opportunity Pennsylvania Program, the Company will utilize similar program  
7 guidelines, processes, and governance. The technical assistance portion of the  
8 Opportunity Pennsylvania program is uniquely adapted to the needs, challenges, and  
9 opportunities before the communities that PPL Electric serves in Pennsylvania. While  
10 the Opportunity Pennsylvania Program will be new, it will be rooted in the successful  
11 experience in Kentucky.

12  
13 **Q. Does this conclude your direct testimony?**

14 **A.** Yes, it does.

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Docket No. R-2025-3057164**

**PPL Electric Utilities Corporation**

**Statement No. 22**

**Direct Testimony of Sharon Leskowsky**

**Topics: Filing Requirements and Exhibits**

**Dated: September 30, 2025**

## Direct Testimony of Sharon Leskowsky

1    **I.    INTRODUCTION**

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

3    A.    My name is Sharon Leskowsky, and my business address is 645 Hamilton Street, Suite  
4            9, Allentown, PA 18101.

5

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

7    A.    I am employed as Assistant Controller by PPL Corporation, which is the parent  
8            company of PPL Electric Utilities Corporation (“PPL Electric” or the “Company”).

9

10   **Q.    What are your responsibilities as Assistant Controller?**

11   A.    My responsibilities include financial accounting and reporting for PPL Corporation’s  
12           utility operating companies including PPL Electric. This includes oversight of  
13           Regulatory, Revenue, Asset and Gas Accounting and FERC and Pennsylvania Public  
14           Utility Commission (“PUC” or “Commission”) reporting.

15

16   **Q.    What is your educational background?**

17   A.    I have a Bachelor of Science degree in Accounting from Pennsylvania State University.

18

19   **Q.    Please describe your professional experience.**

20   A.    A complete statement of my professional experience is attached to my direct testimony  
21           as Appendix A.

22

## Direct Testimony of Sharon Leskowsky

1 **Q. Have you previously testified as a witness in other Commission proceedings or any**  
2 **other jurisdiction's proceedings?**

3 A. No.  
4

5 **Q. What is the purpose of your testimony?**

6 A. I will sponsor or co-sponsor certain of the Company's filing requirements and exhibits  
7 in this case, particularly those concerning PPL Electric's accounting and financial  
8 records and the Company's pro forma adjustments for interest on certain amounts, such  
9 as customer deposits.  
10

### 11 **II. FILING REQUIREMENTS AND EXHIBITS**

12 **Q. Could you please provide a list of the filing requirements and exhibits that you are**  
13 **sponsoring?**

14 A. Yes, I am sponsoring or co-sponsoring the following filing requirements and exhibits  
15 submitted by the Company in this proceeding:

- 16 • Schedule II-B-3;
  - 17 • Schedules II-D-1, 3 through 5, 7, and 9 through 13;
  - 18 • Schedule III-A-2;
  - 19 • Schedules III-F-1 and 4;
  - 20 • Schedules V-A-3 and 4;
  - 21 • Schedules VI-A through D;
  - 22 • Exhibit Historic 1, Schedules B-1 through 4;
  - 23 • Exhibit Historic 1, Schedules C-2, 3, and 5;
  - 24 • Exhibit Historic 1, Schedules D-4, 5, 9, 10, 12, and 15;
  - 25 • Exhibit Future 1, Schedules C-2 and 3;
  - 26 • Exhibit Future 1, Schedules D-9, 10, and 15; and
  - 27 • Exhibit Fully Projected Future 1, Schedules C-2 and 3, and D-9, 10, and 15.
- 28

**Direct Testimony of Sharon Leskowsky**

1   **Q.    Were the filing requirements and exhibits that you are sponsoring or co-**  
2       **sponsoring prepared by your or under your supervision?**

3    A.    Yes.

4

5   **Q.    Is the information set forth in those filing requirements and exhibits true and**  
6       **correct to the best of your information, knowledge, and belief?**

7    A.    Yes.

8

9   **Q.    Could you please explain the adjustments to operating revenues shown in Exhibit**  
10       **Historic 1, Schedules D-3 and 4?**

11   A.    Schedule D-3 reflects the annualizations of sales and base rate revenues for changes in  
12       customer usage and growth which is discussed in more detail in PPL Electric St. No. 4,  
13       the direct testimony of Charles Schram. Schedule D-4 reflects the adjustment made to  
14       normalize distribution operating revenue for the test period by eliminating unbilled  
15       revenue.

16

17   **Q.    What adjustments are being made to Wages and Benefits in Exhibit Historic 1,**  
18       **Schedule D-5?**

19   A.    The number of PPL Electric employees can vary throughout any given year. This, in  
20       turn, impacts the wages and benefits incurred or projected for that period. Schedule D-  
21       5 annualizes transmission and distribution wages, payroll taxes and benefits based on  
22       the number of transmission and distribution-related individuals to be employed at the

## Direct Testimony of Sharon Leskowsky

1 end of each test year, and the corresponding average monthly T&D-related wages to  
2 expense per employee.

3  
4 **Q. Would you please describe the adjustments to Deferred Storm Expenses shown in**  
5 **Schedules D-9 in Exhibits Historic 1, Future 1, and Fully Projected Future 1?**

6 A. On April 3, 2014, the PUC approved PPL Electric's Storm Damage Expense Rider  
7 ("SDER") to be used for recovery of storm damage expenses exceeding the \$14.7  
8 million in base rates at Docket No. R-2012-2290597. The Order caps the amount to be  
9 recovered in base rates at 3% of the Company's total intrastate operating revenues to be  
10 billed to customers, permits the Company to establish a regulatory asset for eligible  
11 storm costs in excess of the 3% cap, and allows the Company to request recovery of  
12 those excess expenses in its next base rate case. The Company established a regulatory  
13 asset of \$11,336,169 for the portion of the costs that would be recoverable from  
14 customers in its next base rate case. PPL Electric is proposing to amortize these costs  
15 over 5 years. PPL Electric witness Katelyn Arnold provides more details in her direct  
16 testimony (PPL Electric St. No. 13).

17  
18 **Q. Could you please explain the adjustment for Infrastructure Investment and Jobs**  
19 **Act ("IIJA") deferral shown in Schedules D-10 in Exhibit Historic 1, Exhibit**  
20 **Future 1, and Exhibit Fully Projected Future 1?**

21 A. Pursuant to the PUC's Order issued on July 13, 2023, at Docket No. P-2022-3032929,  
22 PPL Electric submitted notice that the Company established a regulatory asset for  
23 certain IIJA-related incremental expenditures for costs incurred in order to prepare,



## Direct Testimony of Sharon Leskowsky

1 apply, administer, and otherwise execute on IIJA funding opportunities. PPL Electric  
2 is making a claim for approximately \$633 thousand, amortized over three years for a  
3 claim of \$211 thousand.

4  
5 **Q. What adjustments are being made to Interest Expense on Customer Deposits in**  
6 **Exhibit Historic 1, Schedule D-12?**

7 A. The adjustment on Schedule D-12 shows the adjustment for interest related to customer  
8 deposits for projects. The Commission, in its Final Order at Docket No. R-80031114,  
9 determined that it was appropriate to include the interest expense on customer deposits  
10 in PPL Electric's operation and maintenance expense when the deposits are used as a  
11 reduction to rate base. The interest rate applied is in accordance with the Company's  
12 Tariff – Electric Pa. P.U.C. No. 201 as well as the proposed No. 202.

13  
14 **Q. Please explain what is presented in Schedules D-14 of Exhibit Historic 1, Exhibit**  
15 **Future 1, and Exhibit Fully Projected Future 1 regarding the Company's proposed**  
16 **capitalization of certain Information Technology ("IT") expenditures.**

17 A. As explained further in the direct testimony of Christopher Garrett (PPL Electric St. No.  
18 3), the Company is requesting capital treatment of certain IT costs. Schedule D-14  
19 shows the adjustments to operating expenses and depreciation expense should capital  
20 treatment be approved and the regulatory asset is reclassified to property, plant, and  
21 equipment in the fully projected future test year.

**Direct Testimony of Sharon Leskowsky**

1   **Q.**    **Could you please explain the adjustment to Depreciation Expense shown in**  
2           **Schedules D-15 in Exhibit Historic 1, Exhibit Future 1, and Exhibit Fully Projected**  
3           **Future 1?**

4   **A.**    As part of PPL Electric's distribution base rate filing, it prepares and provides a  
5           depreciation study and requests approval of new depreciation rates. Schedule D-15  
6           provides an adjustment to depreciation expense to account for the change in depreciation  
7           rates.

8

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

10  **A.**    Yes, it does.

## **APPENDIX A**

**Sharon A. Leskowsky**

### **Professional Experience**

#### **PPL:**

Assistant Controller – November 2024-present

Director, Finance & Accounting Integration – April 2022-November 2024

Director, Accounting & Financial Reporting – March 2020-April 2022

Director, Financial Reporting & Technical Accounting – June 2013-March 2020

Special Project Leader – April 2012-June 2013

#### **Air Products & Chemicals, Inc.:**

Manager, External Reporting & Specialized Accounting – September 2008-March 2012

Manager, International & Specialized Accounting – March 2006-September 2008

Supervisor, Cost Collection & Rebillable Projects – February 2003-March 2006

Operational Analyst – August 2001-February 2003

FASB & SEC Accounting Specialist – September 1997-August 2001

Corporate Auditor – September 1995-September 1997

#### **The Eagle's Eye:**

General Ledger Supervisor – June 1994-September 1995

#### **KPMG:**

Senior/Staff Auditor – July 1990-June 1994