



Semiannual Report to the Pennsylvania Public Utility Commission

Phase IV of Act 129

Program Year 17
(June 1, 2025-May 31, 2026)

For Pennsylvania Act 129 of 2008
Energy Efficiency and Conservation Plan

Prepared by Guidehouse Inc. for:



Duquesne Light Company

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January 15, 2026

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Acronyms

C&I	Commercial and Industrial
CSP	Conservation Service Provider or Curtailment Service Provider
EDC	Electric Distribution Company
EDT	Eastern Daylight Time
EE&C	Energy Efficiency and Conservation
GNI	Government, Nonprofit, Institutional
HVAC	Heating, Ventilating, and Air Conditioning
M&V	Measurement and Verification
MW	Megawatt
MWh	Megawatt-hour
NTG	Net-to-Gross
P4TD	Phase IV to Date
PA PUC	Pennsylvania Public Utility Commission
PSA	Phase IV to Date Preliminary Savings Achieved; equal to VTD + PYTD
PMRS	Program Management and Reporting System
PSA+CO	PSA savings plus Carryover from Phase III
PY	Program Year: e.g., PY14, from June 1, 2022 to May 31, 2023
PYRTD	Program Year Reported to Date
PYVTD	Program Year Verified to Date
RTD	Phase IV to Date Reported Gross Savings
SBDI	Small Business Direct Install
SWE	Statewide Evaluator
TRC	Total Resource Cost
TRM	Technical Reference Manual
VT	Phase IV to Date Verified Gross Savings

Types of Savings

Gross Savings: The change in energy consumption and/or peak demand that results directly from program-related actions taken by participants in an Energy Efficiency and Conservation (EE&C) program, regardless of why they participated.

Net Savings: The total change in energy consumption and/or peak demand that is attributable to an EE&C program. Depending on the program delivery model and evaluation methodology, the net savings estimates may differ from the gross savings estimate due to adjustments for the effects of free riders, changes in codes and standards, market effects, participant and nonparticipant spillover, and other causes of change in energy consumption or demand not directly attributable to the EE&C program.

Reported Gross: Also referred to as *ex ante* (Latin for “beforehand”) savings. The energy and peak demand savings values calculated by the electric distribution company (EDC) or its program implementation conservation service providers and stored in the program tracking system.

Verified Gross: Also referred to as *ex post* (Latin for “from something done afterward”) gross savings. The energy and peak demand savings estimates reported by the independent evaluation contractor after the gross impact evaluation and associated measurement and verification (M&V) efforts have been completed.

Verified Net: Also referred to as *ex post* net savings. The energy and peak demand savings estimates reported by the independent evaluation contractor after applying the results of the net impact evaluation. Typically calculated by multiplying the verified gross savings by a net-to-gross (NTG) ratio.

Annual Savings: Energy and demand savings expressed on an annual basis, or the amount of energy and/or peak demand an EE&C measure or program can be expected to save over the course of a typical year. Annualized savings are noted as MWh/year or MW/year. The Pennsylvania Technical Reference Manual (TRM) provides algorithms and assumptions to calculate annual savings, and Act 129 compliance targets for consumption reduction are based on the sum of the annual savings estimates of installed measures.

Lifetime Savings: Energy and demand savings expressed in terms of the total expected savings over the useful life of the measure. Typically calculated by multiplying the annual savings of a measure by its effective useful life. The total resource cost (TRC) test uses savings from the full lifetime of a measure to calculate the cost-effectiveness of EE&C programs.

Program Year Reported to Date (PYRTD): The reported gross energy and peak demand savings achieved by an EE&C program or portfolio within the current program year. Program year to date (PYTD) values for energy efficiency will always be reported as gross savings in a semiannual report.

Program Year Verified to Date (PYVTD): The verified gross energy and peak demand savings achieved by an EE&C program or portfolio within the current program year.

Phase IV to Date (P4TD): The energy and peak demand savings achieved by an EE&C program or portfolio within Phase IV of Act 129. Reported in several permutations described below:

Phase IV to Date Reported (RTD): The sum of the reported gross savings recorded to date in Phase IV of Act 129 for an EE&C program or portfolio.

Phase IV to Date Verified (VTD): The sum of the verified gross savings recorded to date in Phase IV of Act 129 for an EE&C program or portfolio as determined by the impact evaluation finding of the independent evaluation contractor.

Phase IV to Date Preliminary Savings Achieved (PSA): The sum of the verified gross savings (VTD) from previous program years in Phase IV where the impact evaluation is complete plus the reported gross savings from the current program year (PYRTD).

Phase IV to Date Preliminary Savings Achieved + Carryover (PSA+CO): The sum of the verified gross savings from previous program years in Phase IV plus the reported gross savings from the current program year plus any verified gross carryover savings from Phase III of Act 129. This is the best estimate of an EDC's progress toward the Phase IV compliance targets.

1. Introduction

Pennsylvania Act 129 of 2008, signed on October 15, 2008, mandated energy savings and demand reduction goals for the largest electric distribution companies (EDCs) in Pennsylvania for Phases I (2008 through 2013), II (2013 through 2016), and III (2016 through 2021). In late 2020, each EDC filed a new Energy Efficiency and Conservation (EE&C) plan with the Pennsylvania Public Utilities Commission (PA PUC) detailing the proposed design of its portfolio for Phase IV. These plans were updated based on stakeholder input and subsequently approved by the PA PUC in 2021.

Implementation of Phase IV of the Act 129 programs began on June 1, 2021. This report documents the progress and effectiveness of the Phase IV EE&C accomplishments for Duquesne Light in program year 16 (PY16), as well as the cumulative accomplishments of the Phase IV programs since inception. This report also documents the energy savings carried over from Phase III. The Phase III carryover savings count toward EDC savings compliance targets for Phase IV.

This report details the participation, spending, and reported gross impacts of the energy efficiency programs during the first six months of PY16. Compliance with Act 129 savings goals is ultimately based on verified gross savings. Duquesne Light retained Guidehouse as an independent evaluation contractor for Phase IV of Act 129. Guidehouse is responsible for the measurement and verification (M&V) of the savings and calculation of verified gross savings. The verified gross savings for PY16 energy efficiency programs will be reported in the final annual report, to be filed on September 30, 2025.

Phase IV of Act 129 includes a peak demand reduction goal for Duquesne Light. Unlike previous phases of Act 129, Phase IV peak demand reduction targets must be met through coincident demand reductions from energy efficiency measures. The Act 129 peak demand reduction definition is non-holiday weekdays from 2 p.m. to 6 p.m. in June, July, and August. As in prior phases, compliance with Act 129 peak compliance goals is assessed at the system level so all coincident peak demand impacts are adjusted for line losses.



PORTFOLIO

Duquesne Light offers 17 energy efficiency programs to nonresidential, residential, and low-income customers in Phase IV.¹

Reported Energy Savings

Phase IV
has so far been
reported to save
358,110 MWh
(PSA+CO)

103%
of
compliance
target

26%
of
projected
PY17 total

PY17 saved
18,237 MWh/yr

Reported Demand Savings

Phase IV
has so far been
reported to save
62.12 MW (PSA)

100%
of
compliance
target

19%
of
projected
PY17 total

PY17 saved
3.17 MW/yr

PY17 Participation

A total of **7,417** participants:



3,115 Low-income



3,869 Residential



433 Nonresidential

Actual Expenditures (\$1,000)

Phase IV
expenditures:
\$82,350

86%
of
projected
Phase IV

35%
of
projected
PY17 total

PY17
expenditures:
\$5,998

¹ Duquesne Light, "Revised Phase IV Energy Efficiency and Conservation Plan". May 12, 2023.

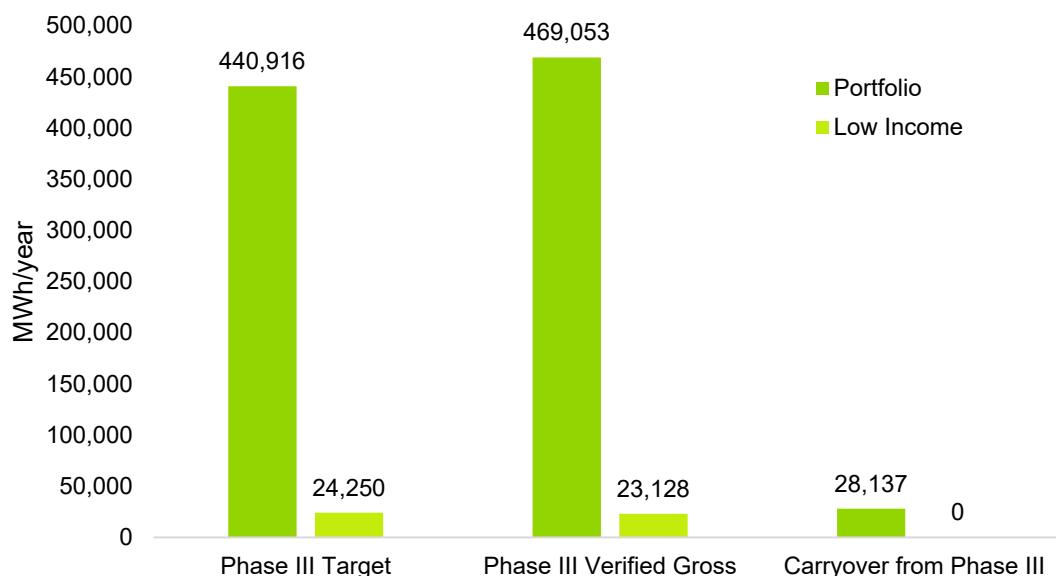
https://www.duquesnelight.com/docs/default-source/default-document-library/phase-iv-as-dlc's-approved-phase-iv-eec-plan-minor-modification-clean---may-2023.pdf?sfvrsn=d1fb642_0

2. Summary of Achievements

2.1 Carryover Savings from Phase III of Act 129

The PA PUC's Phase IV Implementation Order² allowed EDCs to carry over verified savings above the Phase III portfolio and low-income savings goals and apply those savings toward Phase IV compliance targets. Duquesne Light has 28,137 MWh/year of portfolio carryover savings and 0 MWh/year of low-income carryover savings from Phase III toward its Phase IV energy reduction targets. Figure 1 compares Duquesne Light's Phase III verified gross savings total³ to the Phase III compliance target to illustrate the carryover calculation.

Figure 1. Carryover Savings from Phase III of Act 129



Note: Phase III Verified Gross Savings do not include carryover savings from Phase II.

Source: Guidehouse

Phase III did not include a peak demand reduction target from energy efficiency, so there are no carryover savings toward the Phase IV peak demand reduction target.

2.2 Phase IV Energy Efficiency Achievements to Date

Since the beginning of PY17 on June 1, 2025, Duquesne Light has claimed:

- 18,237 MWh/yr of reported gross electric energy savings (PYRTD)
- 3.17 MW/yr of reported gross peak demand savings (PYRTD)

Since the beginning of Phase IV of Act 129 on June 1, 2021, Duquesne Light has achieved:

² Pennsylvania Public Utility Commission, *Energy Efficiency and Conservation Program Implementation Order*, at Docket No. M-2020-3015228, (*Phase IV Implementation Order*), entered June 18, 2020.

³ Phase III Verified Gross Savings do not include carryover savings from Phase II.

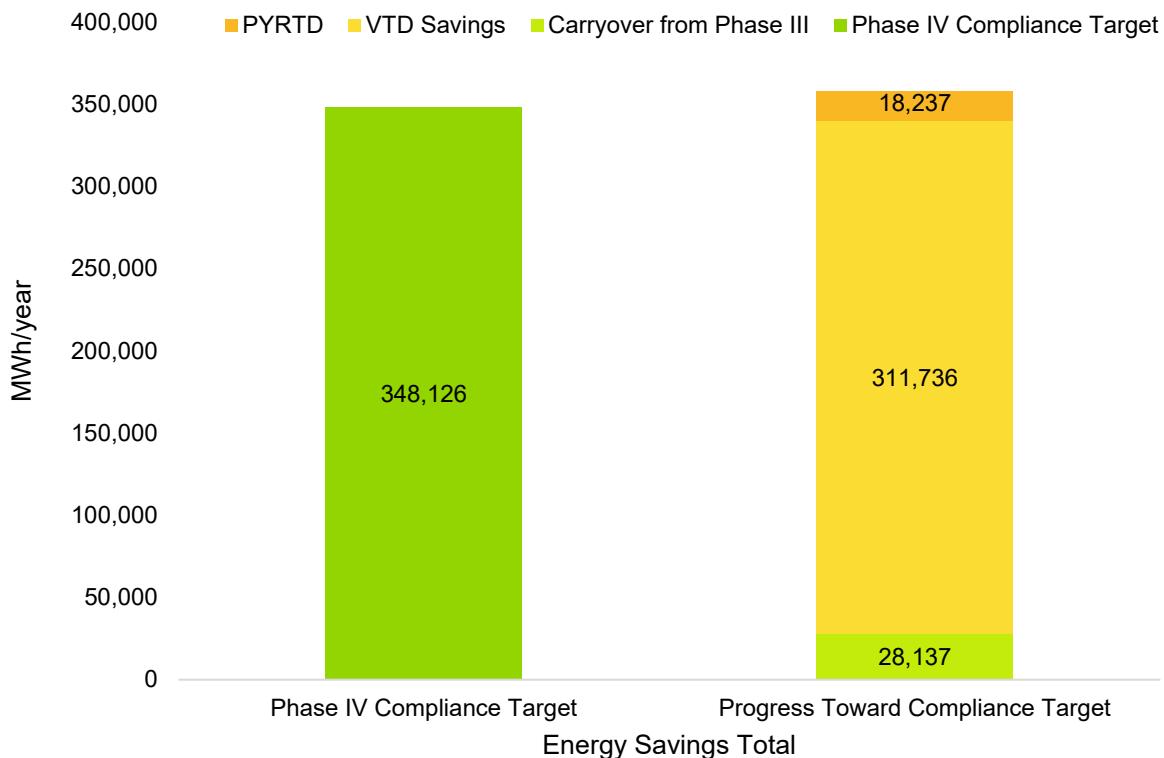
- 311,112 MWh/yr of reported gross electric energy savings (RTD)
- 57.74 MW/yr of reported gross peak demand savings (RTD) from energy efficiency programs
- 329,973 MWh/yr of gross electric energy savings (PSA). This total includes verified gross savings from previous Phase IV program years and the PYTD reported gross savings from PY17.
- 62.12 MW/yr of gross peak demand savings (PSA) from energy efficiency programs

Including carryover savings from Phase III, Duquesne Light has achieved:

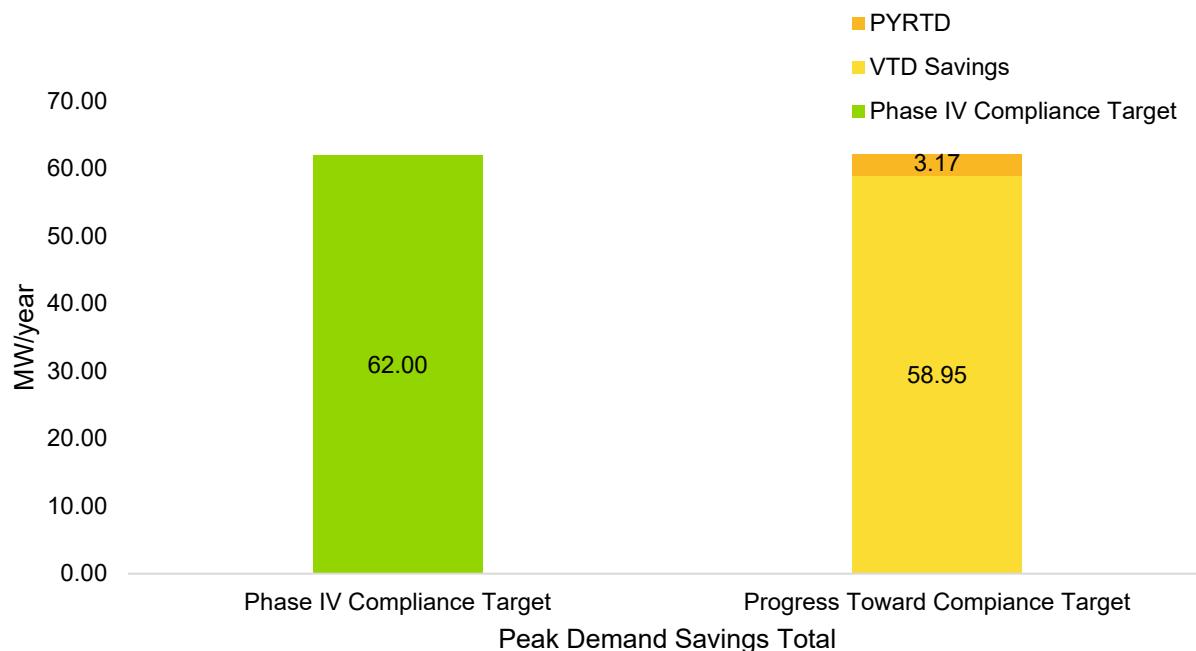
- 358,110 MWh/yr of PSA+CO energy savings recorded to date in Phase IV
 - This value represents 103% of the May 31, 2026 energy savings compliance target of 348,126 MWh/yr.

Figure 2 and Figure 3 show Duquesne Light's EE&C Plan progress toward Phase IV energy conservation and peak demand reduction compliance targets.

Figure 2. Performance toward Phase IV Portfolio Energy Target



Source: Guidehouse

Figure 3. Performance toward Phase IV Portfolio Peak Demand Target


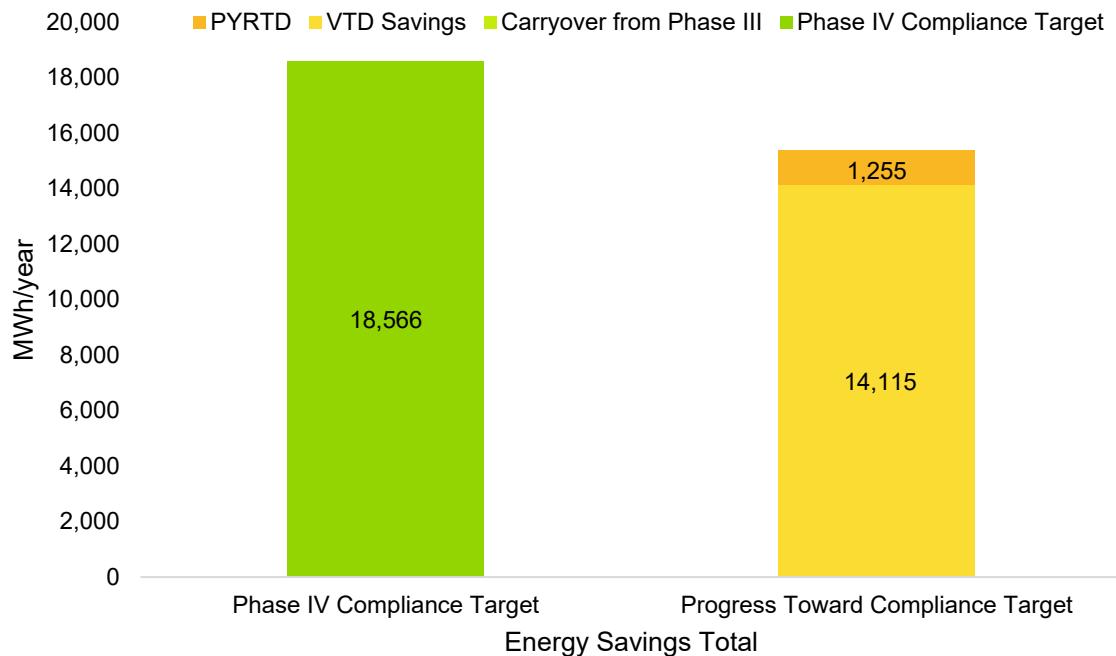
Source: Guidehouse

The Phase IV Implementation Order directed EDCs to offer conservation measures to the low-income customer segment based on the proportion of electric sales attributable to low-income households. The proportionate number of measures targeted for Duquesne Light is 8.4%. Duquesne Light offers a total of 90 EE&C measures to its residential and nonresidential customer classes. There are 34 measures available to the LI customer segment at no cost to the customer⁴. This represents 37.8% of the total measures offered in the EE&C plan and exceeds the proportionate number of measures target.

The PA PUC also established a low-income energy savings target of 5.3% of the portfolio savings goal. The low-income savings target for Duquesne Light is 18,566 MWh/yr and is based on verified gross savings. Figure 4 compares the PSA+CO performance to date for the low-income customer segment to the Phase IV savings target. Based on the latest available information, Duquesne Light has achieved 83% of the Phase IV low-income energy savings target.

⁴ Duquesne Light, “Revised Phase IV Energy Efficiency and Conservation Plan”, May 12, 2023, Table 7A: Eligible Measures-Residential (page 144) and Table 7B: Eligible Measures- Non-Residential (page 146).

https://www.duquesnelight.com/docs/default-source/default-document-library/phase-iv-as-dlc's-approved-phase-iv-eeec-plan-minor-modification-clean---may-2023.pdf?sfvrsn=d1fbb642_0

Figure 4. EE&C Plan Performance toward Phase IV Low-income Compliance Target


Source: Guidehouse

2.3 Phase IV Performance by Customer Segment

Table 1 presents the participation, savings, and spending by customer sector for PY17. The residential, small C&I, and large C&I sectors are defined by EDC tariff and the residential low-income and governmental/educational/nonprofit (GNI) sector were defined by statute (66 Pa. C.S. § 2806.1). The residential low-income segment is a subset of the residential customer class, and the GNI segment includes customers who are part of the small commercial and industrial (C&I) or large C&I rate classes. The savings, spending, and participation values for the low-income segment has been removed from the parent sectors in Table 1. Pursuant to the Commission's Implementation Order for Phase IV, Duquesne Light will not offer a specialized program, but will report the savings associated with the GNI customers participating in the Non-Residential programs.

Table 1. PY17 Summary Statistics by Customer Segment

Parameter	Residential (Non-Low- income)	Residential Low- income	Small C&I	Large C&I	GNI	Total*
No. of Participants**	3,869	3,115	2	195	236	7,417
PYRTD MWh/yr	1,596	1,255	125	6,502	8,759	18,237
PYRTD MW/yr	0.41	0.10	0.02	1.25	1.38	3.17
Incentives (\$1,000)	\$177	\$0	\$34	\$753	\$1,156	\$2,119

*Total values may not add up due to rounding.

**Populations for the Residential and LI Behavior programs are captured at year end and therefore not represented here

Source: *Guidehouse*

Table 2 summarizes plan performance by sector since the beginning of Phase IV.

Table 2. Phase IV Summary Statistics by Customer Segment

Parameter	Residential	Low-income	Small C&I	Large C&I	GNI	Total*
No. of Participants	878,325	126,289	3,373	1,283	1,129	1,010,399
PSA MWh/yr	64,224	15,369	84,273	100,852	65,255	329,973
PSA MW/yr	11.09	1.75	19.11	17.62	12.54	62.12
Incentives (\$1,000)	\$4,254	\$386	\$12,223	\$7,775	\$8,353	\$32,990

*Total values may not add up due to rounding.

Source: *Guidehouse*

3. Updates and Findings

3.1 Implementation Updates and Findings

Duquesne Light's Phase IV EE&C Plan includes programs that are being continued as previously implemented in Phase III, modified based on previous years' experience implementing them, and newly added programs. The new programs include Small Business Virtual Commissioning, Large Business Virtual Commissioning, and Residential Midstream Incentives. Additionally, Duquesne Light also designed, developed, and updated a new system, PMRS 2.0, for tracking, managing, and reporting measure, project, program, and portfolio activities for Phase IV. A summary of the Phase IV programs and implementation to date is as follows:

3.1.1 Residential Programs

- **Upstream Incentives:** No program activity has been reported to date in PY17.
- **Midstream Incentives:** No program activity has been reported to date in PY17.
- **Downstream Incentives:** To date, the program has reported savings from rebates and kits, and from community events and sweepstakes giveaways. Additionally, the program reported savings from audits for single-family homes where participants receive additional direct install measures. Participation and savings are slightly lower than in PY16.
- **Appliance Recycling:** Program activity to date for PY17 is relatively consistent to PY16.
- **Low-income Energy Efficiency:** Activities include a walkthrough audit for single-family and multifamily dwellings and a thorough audit for single-family homes where participants receive additional direct install measures. Participation appears to be running as slightly lower in comparison to PY16.
- **Residential Behavioral and Low-income Residential Behavioral:** These programs will continue to operate similar to Phase III with the introduction of new cohorts, which were launched in PY13 and PY15 for additional low-income and market rate customers. Program activity will be reported at program year end.

3.1.2 Small Business Programs

- **Small Business Direct Install (SBDI):** Projects labeled as small multifamily housing retrofit in PMRS are reported under the SBDI program. There have been no SBDI-specific projects so far in PY17, but there have been two small multifamily housing projects.
- **Small Business Solutions:** Small Business Solutions, targeting non-residential customers with demand <300kW, shows lower participation and savings from PY16 to PY17 so far.
- **Small Business Midstream Solutions:** No participation so far in PY17.
- **Small Business Virtual Commissioning:** SBVCx has one project submitted in PY17, which is slightly less than previous years' participation.

3.1.3 Large Business Programs

- **Large Business Solutions:** Large Business Solutions, targeting non-residential customers with demand $\geq 300\text{kW}$, shows higher participation and lower savings in PY17 compared to PY16 at mid-year.
- **Large Business Midstream Solutions:** The program currently includes primarily lighting measures. This program shows higher participation and savings than PY16.
- **Large Business Virtual Commissioning:** LBVCx has one project submitted in PY17, which is consistent to previous years' participation.

3.2 Evaluation Updates and Findings

This section summarizes evaluation highlights of Duquesne Light's progress in Phase IV. Guidehouse prepared a Phase IV evaluation plan that describes all activities planned for PY17 and Phase IV. Guidehouse received and addressed statewide evaluator (SWE) comments regarding the plan. Guidehouse plans to follow the planned evaluation activities consistent with the Phase IV evaluation plan for each program for PY17, which Table 3 summarizes. In case of any necessary deviations from the plan, Guidehouse will inform, discuss, and agree with Duquesne Light and SWE in advance of pursuing any changes.

Guidehouse will prepare and submit nonresidential and residential program sample design memorandums that will describe stratification, sample targets, and research methods the team will use to gather information for the programs that are the focus of verification efforts in PY17.

Thus far, Guidehouse has provided responses to the SWE's PY17 quarterly data requests for Q1 and Q2. This included data and project files from the various programs to demonstrate program activity to date.

Table 3. Schedule of Major Evaluation Activities Involving Primary Research for Each Program

	Projected	Projected	Impact						Process/NTG				
	MWh	MW	PY13	PY14	PY15	PY16	PY17	PY13	PY14	PY15	PY16	PY17	
Residential													
Upstream Incentives	3.7%	2.1%	X	X	X	X	X	*	X	*	*	*	
Midstream Incentives	0.2%	0.2%	U	*	*	*	*	*	*	*	*	*	
Downstream Incentives	6.4%	3.9%	X	*	X	X (New Customer Kits only)	*	X	*	X (Audit only)	*	*	
Appliance Recycling	3.4%	2.7%	X	*	X	*	*	*	*	X	*	*	
Residential Behavioral	10.8%	8.1%	X	X	X	X	X	*	P	*	*	*	
Low Income Behavioral	1.3%	0.9%	X	X	X	X	X	*	P	*	*	*	
Low Income Energy Efficiency	4.5%	2.8%	*	X	*	X	*	*	P	*	*	*	
Small/Medium C&I													
Small Business Direct-Install ⁵	6.2%	6.7%	*	X	X	*	X	*	X	*	*	*	
Small Business Solutions	13.6%	12.8%	Uses a 2-year rolling sample approach						*	X	*	*	
Small Business Midstream	7.4%	10.1%	X	X	*	E	*	D	*	X	*	*	

⁵ Due to higher than anticipated variability in the data collected from the sample population in PY14, Guidehouse was unable to hit the confidence and precision targets and will therefore evaluate in PY15 and PY17.

Small Virtual Commissioning	1.6%	3.3%	U	X	X	*	X	*	*	X	*	*
Large C&I												
Large Business Solutions*	33.1%	33.7%	Uses a 2-year rolling sample approach					*	X	*	N	*
Large Business Midstream	6.8%	10.5%	X	X	*	E	*	D	*	X	*	*
Large Virtual Commissioning	1.1%	2.2%	U	X	X	*	X	*	*	X	*	*
Portfolio	100%	100%										

* Uses realization rate values from the most recent evaluation activities based on previous years.

X: Guidehouse will conduct verification and/or primary research for impact evaluation activities and/or primary research for process/NTG activities.

U: Savings will be unverified for this program year.

P: Guidehouse will conduct process evaluation only for this year for this program.

D: Guidehouse will conduct only market actor assessment via distributor interviews for this year for this program.

E: Guidehouse will plan to conduct an evaluation in PY16 unless program status warrants that an evaluation not be conducted.

N: Guidehouse will conduct only NTG assessment for this year for this program.

Source: Guidehouse

4. Summary of Participation by Program

Participation is defined differently for certain programs depending on the program delivery channel and data tracking practices. The nuances of the participant definition vary by program, and within elements of a given program. The following bullets summarize Phase IV participation counting logic by program, and Table 4 provides the current participation totals for PY17 and Phase IV.

- The Residential Energy Efficiency program includes seven components:
 - For customers participating in the Rebate component of the Residential Downstream Incentives Program (RDIP), it is the number of distinct account numbers in the program tracking data within a given program year. For the Kits component of RDIP, it is the number of kits distributed within a given program year.
 - For Residential Midstream Incentives Program (RMIP), it is the number of distinct account numbers in the program tracking data within a given program year.
 - For Residential Upstream Incentives Program (RUIP), participation cannot be accurately collected due to the nature of the program and therefore are not counted. Guidehouse used guidance listed in the applicable Pennsylvania TRM sections for a census of projects implemented during PY17.
 - For Residential Appliance Recycling Program (RARP), it is the number of distinct measures in the program tracking data within a given program year.
 - For Low-income Energy Efficiency Program (LIEEP), customers participating in the Audit component, it is the number of distinct account numbers in the tracking data within a given program year. For the Kits component of LIEEP, it is the number of kits distributed within a given program year. For the Giveaway component of LIEEP, it is the number of measures distributed within a given year.
 - For Residential and LI Behavior, it is the number of distinct account numbers in the tracking data within a given program year. Participation is not collected until the end of the program year.
- The Commercial Prescriptive program includes four components:
 - For Small Business Direct Install (SBDI), it is the number of unique participants (defined as unique account numbers).
 - For Small and Large Business Solutions, including industrial, it is the number of unique participants (defined as unique account numbers).
 - For Small and Large Business Midstream Solutions, including industrial, it is the number of unique participants (defined as unique account numbers).
 - For Small and Large Virtual Commissioning, including industrial, it is the number of unique participants (defined as unique account numbers).

Table 4. EE&C Plan Participation by Program Component

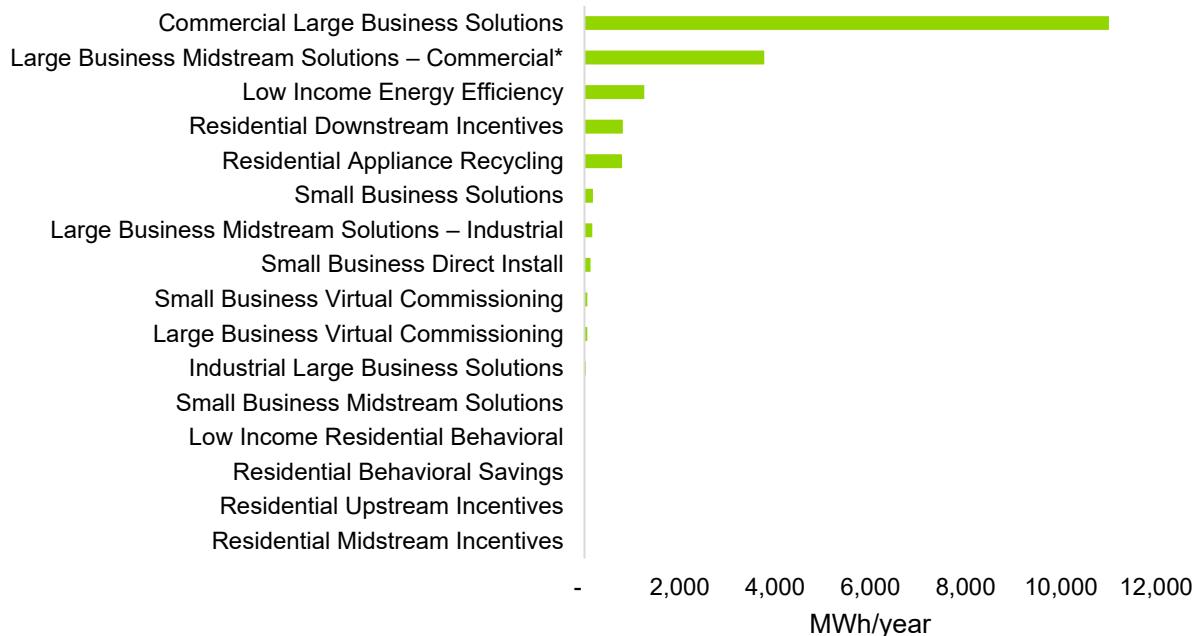
Program	PYTD Participation	P4TD Participation
Downstream Incentives	2,637	112,074
Midstream Incentives	0	3
Upstream Incentives	N/A	N/A
Appliance Recycling	1,232	8,968
Residential Total	3,869	121,045
LI Total	3,115	34,734
Residential Behavior Total	N/A	757,280
LI Behavior Total	N/A	91,549
Small Business Direct-Install	2	421
Small Business Solutions	1	694
Small Business Midstream Solutions	0	2,801
Small Business Virtual Commissioning	1	50
Commercial - Large Business Solutions	41	212
Industrial - Large Business Solutions	3	40
Commercial - Large Business Midstream Solutions	371	1,293
Industrial - Large Business Midstream Solutions	13	267
Large Business Virtual Commissioning	1	13
Nonresidential Total	433	5791
Portfolio Total	7,417	1,010,399

Source: Guidehouse

5. Summary of Energy Impacts by Program

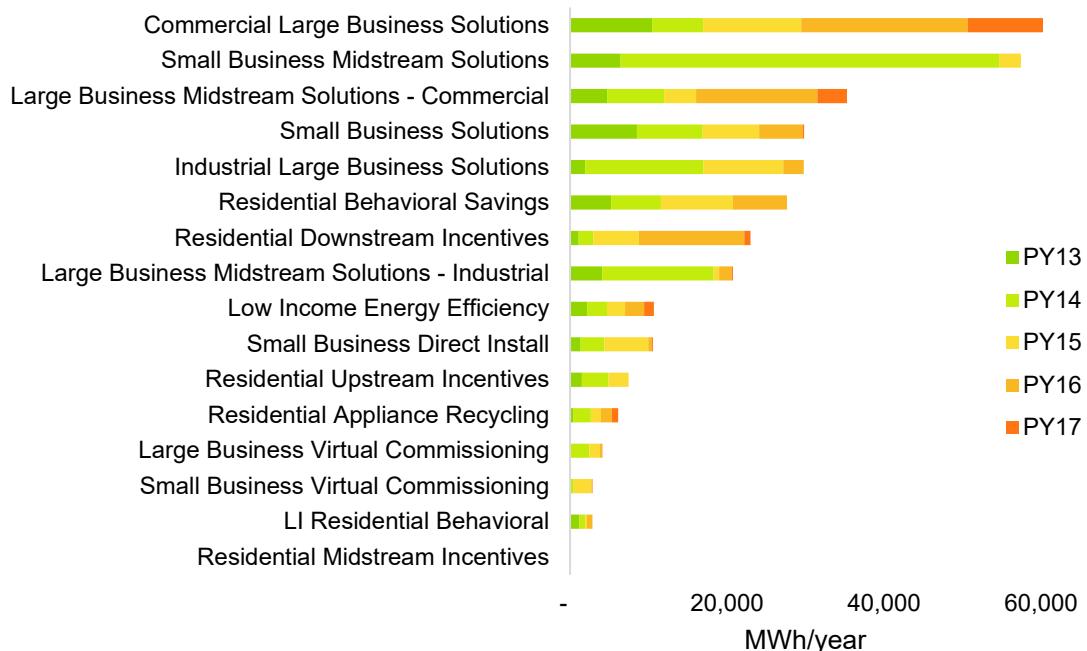
Figure 5 summarizes the PYTD reported gross energy savings by program for PY17. This report presents energy impacts at the meter level, and they do not reflect adjustments for transmission and distribution losses.

Figure 5. PYTD Reported Gross Energy Savings by Program



Source: Guidehouse

Figure 6 summarizes the PSA gross energy savings by program for Phase IV of Act 129. PSA savings include verified gross savings from previous program years and the PYTD savings from the current program year.

Figure 6. PSA Energy Savings by Program for Phase IV


Source: Guidehouse

Table 5 summarizes energy impacts by program through the current reporting period.

Table 5. Energy Savings by Program (MWh/Year)

Program	PYRTD	RTD	VTD	PSA
Residential Downstream Incentives	806	22,970	22,187	22,993
Residential Midstream Incentives	-	7	7	7
Residential Upstream Incentives	-	6,756	7,456	7,456
Residential Appliance Recycling	789	5,820	5,344	6,133
Low-income Energy Efficiency	1,255	11,177	9,424	10,679
Residential Behavioral Savings	-	28,148	27,635	27,635
Low-income Residential Behavioral	-	2,539	2,853	2,853
Small Business Direct Install	125	11,338	10,428	10,554
Small Business Solutions	177	28,344	29,645	29,822
Small Business Midstream Solutions	-	52,861	57,431	57,431
Small Business Virtual Commissioning	59	2,919	2,804	2,863
Commercial Large Business Solutions	11,006	61,502	50,643	61,649
Industrial Large Business Solutions	25	29,362	29,755	29,779
Large Business Midstream Solutions – Commercial*	3,773	26,335	31,495	35,267

Program	PYRTD	RTD	VTD	PSA
Large Business Midstream Solutions – Industrial	162	16,811	20,580	20,743
Large Business Virtual Commissioning	59	4,224	4,051	4,110
Portfolio Total	18,237	311,112	311,736	329,973

Source: Guidehouse

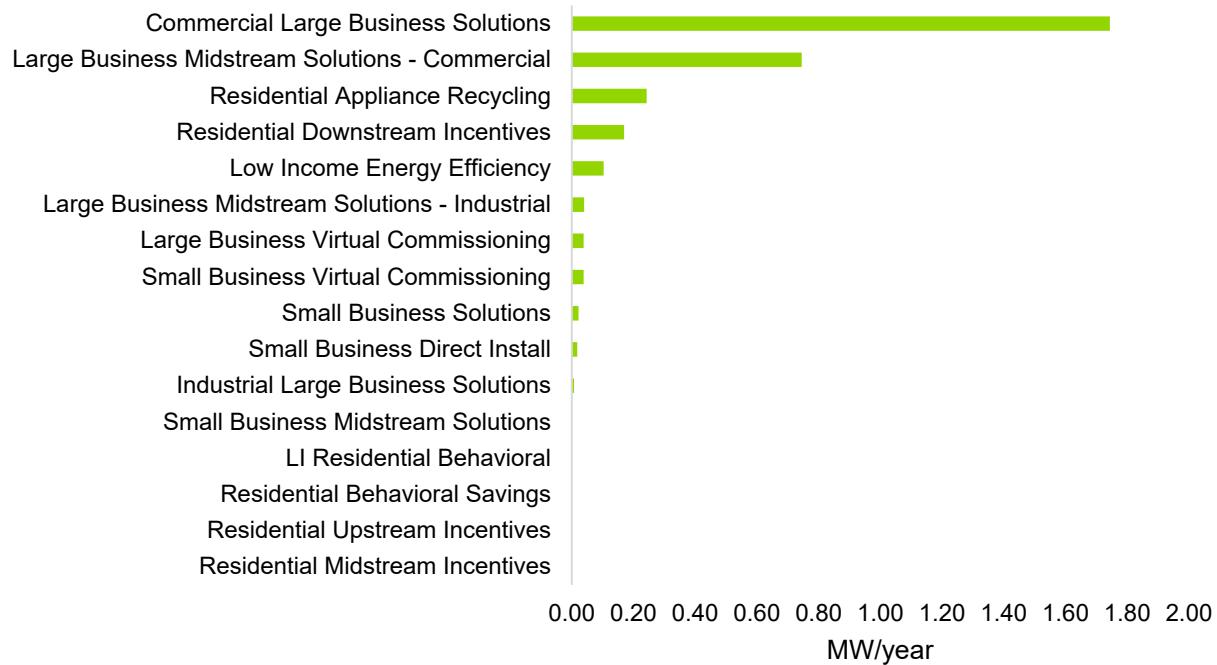
6. Summary of Peak Demand Impacts by Program

Act 129 defines peak demand savings from energy efficiency as the average expected reduction in electric demand from 2 p.m. to 6 p.m. EDT on non-holiday weekdays from June to August. This report presents peak demand impacts from energy efficiency at the system level, meaning they reflect adjustments for transmission and distribution losses. Duquesne Light uses the following line loss percentages or multipliers by sector:

- Residential = 1.0741
- Small C&I = 1.0741
- Large C&I = 1.0741
- Large C&I High Voltage = 1.0081

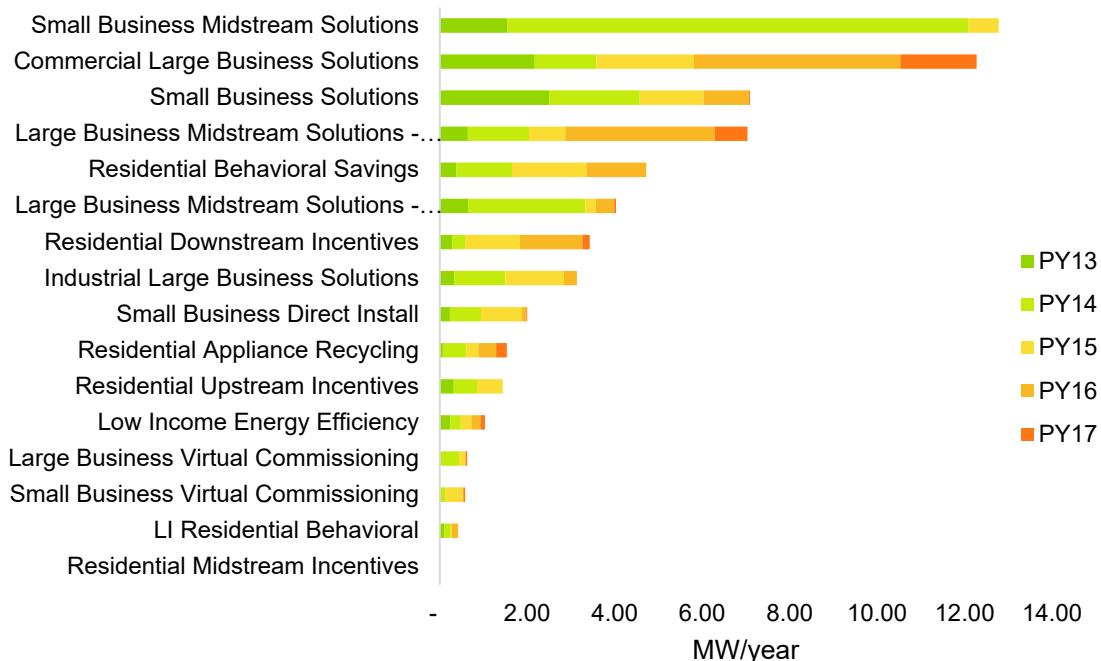
Figure 7 summarizes the PYRTD reported gross peak demand savings by energy efficiency program for PY17.

Figure 7. PYRTD Gross Peak Demand Savings by Program



Source: Guidehouse

Based on feedback from the SWE at the end of PY13, it was determined that a modification was needed in how the prescribed line loss factor was applied to Large C&I projects. This resulted in an adjustment to the reported and verified peak demand savings after the PY13 Annual Report was filed. Figure 8 and Table 6 reflect these adjustments. Figure 8 summarizes the PSA gross peak demand savings by energy efficiency program for Phase IV of Act 129.

Figure 8. PSA Gross Peak Demand Savings by Energy Efficiency Program for Phase IV


Source: Guidehouse

Table 6 summarizes the peak demand impacts by program through the current reporting period.

Table 6. Peak Demand Savings by Program (MW/Year)

Program	PYRTD	RTD*	VTD*	PSA*
Residential Downstream Incentives	0.17	3.87	3.26	3.43
Residential Midstream Incentives	-	0.00	0.00	0.00
Residential Upstream Incentives	-	0.97	1.40	1.40
Residential Appliance Recycling	0.24	1.44	1.29	1.53
Low-income Energy Efficiency	0.10	1.06	0.93	1.03
Residential Behavioral Savings	-	5.48	4.72	4.72
LI Residential Behavioral	-	0.26	0.42	0.42
Small Business Direct Install	0.02	1.91	1.98	1.99
Small Business Solutions	0.02	6.08	7.11	7.13
Small Business Midstream Solutions	-	11.39	12.78	12.78
Small Business Virtual Commissioning	0.04	0.53	0.54	0.58
Commercial Large Business Solutions	1.74	12.05	10.53	12.27
Industrial Large Business Solutions	0.01	3.11	3.13	3.14
Large Business Midstream Solutions - Commercial	0.74	5.13	6.29	7.04

Program	PYRTD	RTD*	VTD*	PSA*
Large Business Midstream Solutions - Industrial	0.04	3.99	3.99	4.03
Large Business Virtual Commissioning	0.04	0.47	0.59	0.63
Portfolio Total	3.17	57.74	58.95	62.12

** Peak demand savings will not match the PY13 Annual Report due to modifications in how the prescribed line loss factor was applied to Large C&I projects per the SWE's guidance after the PY13 Annual Report was filed.*

Source: Guidehouse

7. Summary of Finances

This section details the expenditures associated with Duquesne Light's portfolio and the recovery of those costs from ratepayers.

7.1 Program and Portfolio Financials

Table 7 shows program-specific and portfolio total finances for PY17. The columns in Table 7 and Table 8 are adapted from the list of program cost elements in the PA PUC's EE&C plan template⁶ for Phase IV. So far in PY17, 40% of all EE&C plan expenditures have been incentives to participants and trade allies.

- Incentives include rebates, point-of-sale buydowns, kits, and direct install materials and labor.
- EDC materials, labor, and administration includes costs associated with Duquesne Light's own employees.
- Implementation conservation service provider ICSP materials, labor, and administration includes the program implementation contractor, and the costs of any other outside vendors Duquesne Light employs to support program delivery.
- EM&V includes cost of program evaluation, measurement, and verification.

Table 7. Program Year to Date Financials (\$1,000)

Program	Incentives	EDC Materials, Labor, and Administration	ICSP Materials, Labor, and Administration	EM&V	Total Cost
Residential Downstream Incentives	\$334	\$0	\$1,256	\$0	\$1,590
Residential Midstream Incentives	\$0	\$0	\$0	\$0	\$0
Residential Upstream Incentives	\$0	\$0	\$0	\$0	\$0
Residential Appliance Recycling	\$0	\$37	\$18	\$8	\$63
Low-income Energy Efficiency	\$338	\$38	(\$155)	\$40	\$261
Residential Behavioral Savings	\$0	\$91	\$504	\$7	\$602
LI Residential Behavioral	\$0	\$0	\$0	\$0	\$0
Small Business Direct Install	\$0	\$0	\$0	\$0	\$0
Small Business Solutions	\$27	\$38	\$22	\$33	\$120
Small Business Midstream Solutions	\$0	\$0	\$0	\$0	\$0

⁶ Implementation of Act 129 of 2008 – Phase IV Energy Efficiency and Conservation Plan Template. Docket No. M-2020-3015228. Section 10. September 9, 2020. <https://www.puc.pa.gov/pcdocs/1676672.docx>.

Program	Incentives	EDC Materials, Labor, and Administration	ICSP Materials, Labor, and Administration	EM&V	Total Cost
Small Business Virtual Commissioning	\$7	\$0	\$2	\$0	\$9
Large Commercial Business Solutions	\$998	\$21	\$604	\$67	\$1,690
Large Commercial Business Midstream Solutions	\$663	\$42	\$245	\$13	\$963
Large Commercial Business Virtual Commissioning	\$7	\$21	\$4	\$2	\$34
Large Industrial Business Solutions	\$5	\$21	\$148	\$29	\$203
Large Industrial Business Midstream Solutions	\$25	\$21	\$14	\$5	\$65
Large Industrial Business Virtual Commissioning	\$1	\$0	\$1	\$0	\$2
Common Portfolio Costs⁷					
Portfolio Total	\$2,405	\$330	\$2,663	\$204	\$5,602
SWE Costs⁸	N/A	N/A	N/A	N/A	\$396
Total	\$2,405	\$330	\$2,663	\$204	\$5,998

Source: Guidehouse

Table 8 shows program-specific and portfolio total finances since the inception of Phase IV. So far in Phase IV, 50% of all EE&C plan expenditures have been incentives to participants and trade allies.

⁷ Common Portfolio Costs include costs associated with program tracking data management, support (legal, IT), portfolio level marketing, and EMV.

⁸ Statewide Evaluation costs are within the 2% spending cap.

Table 8. Phase IV to Date Financials (\$1,000)

Program	Incentives	EDC Materials, Labor, and Administration	ICSP Materials, Labor, and Administration	EM&V	Total Cost
Residential Downstream Incentives	\$4,528	\$236	\$4,949	\$125	\$9,838
Residential Midstream Incentives	\$1	\$42	\$64	\$2	\$109
Residential Upstream Incentives	\$698	\$123	\$1,784	\$81	\$2,686
Residential Appliance Recycling	\$345	\$196	\$1,588	\$65	\$2,194
Low-income Energy Efficiency	\$6,421	\$386	\$2,066	\$364	\$9,237
Residential Behavioral Savings	\$0	\$363	\$2,976	\$79	\$3,418
LI Residential Behavioral	\$0	\$208	\$719	\$16	\$943
Small Business Direct Install	\$5,593	\$104	\$995	\$209	\$6,901
Small Business Solutions	\$1,976	\$343	\$2,605	\$315	\$5,239
Small Business Midstream Solutions	\$8,198	\$58	\$4,182	\$56	\$12,494
Small Business Virtual Commissioning	\$319	\$87	\$179	\$34	\$619
Large Commercial Business Solutions	\$5,272	\$300	\$5,508	\$485	\$11,565
Large Commercial Business Midstream Solutions	\$3,300	\$137	\$2,257	\$141	\$5,835
Large Commercial Business Virtual Commissioning	\$671	\$108	\$217	\$19	\$1,015
Large Industrial Business Solutions	\$1,819	\$269	\$2,691	\$215	\$4,994
Large Industrial Business Midstream Solutions	\$1,989	\$110	\$1,329	\$58	\$3,486
Large Industrial Business Virtual Commissioning	\$6	\$84	\$27	\$7	\$124
Common Portfolio Costs⁹					
Portfolio Total	\$41,136	\$3,154	\$34,136	\$2,271	\$80,698
SWE Costs¹⁰	N/A	N/A	N/A	N/A	\$1,652
Total	\$41,136	\$3,154	\$34,136	\$2,271	\$82,350

Source: Guidehouse

⁹ Common Portfolio Costs include costs associated with program tracking data management, support (legal, IT), portfolio level marketing, and EMV.

¹⁰ Statewide Evaluation costs are within the 2% spending cap.

Cost-effectiveness testing for Act 129 EE&C programs is performed using the total resource cost (TRC) test. Benefit-cost modeling is conducted annually using verified gross and verified net savings once the results of the independent impact evaluation are completed. TRC test results for PY17 will be presented in the final annual report to the PA PUC on September 30, 2025, along with a more granular breakdown of portfolio costs.

7.2 Cost Recovery

Act 129 allows Pennsylvania EDCs to recover EE&C plan costs through a cost recovery mechanism. Duquesne Light's cost recovery charges are organized separately by four customer sectors to ensure the electric rate classes that finance the programs are the rate classes that receive the direct energy and conservation benefits. Cost recovery is necessarily tied to the way customers are metered and charged for electric service. Readers should be mindful of the differences between Table 9 and Section 2.3. For example, the low-income customer segment is a subset of Duquesne Light's residential tariff(s) and is not listed in Table 9.

Table 9. EE&C Plan Expenditures by Cost Recovery Category¹¹

Cost Recovery Sector	Rate Classes Included	PYTD Spending (\$1,000)	P4TD Spending (\$1,000) ¹²
Residential	RS, RH, RA	\$2,627	\$28,936
Small/Medium Commercial and Industrial	GS, GM, GMH	\$194	\$25,671
Large Commercial	GL, GLH, L	\$2,819	\$19,031
Large Industrial	GL, GLH, L, HVPS	\$358	\$8,712
Portfolio Total		\$5,998	\$82,351

Source: Guidehouse

¹¹ Includes SWE costs.

¹² Total may not match previous tables due to rounding.