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November 20, 2018

E-File

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, Pennsylvania 17120

**Re: Annual Report for the Period June 2017
through May 2018, Program Year Nine (9)
PPL Electric Utilities Corporation's Act 129 Plan
Docket No. M-2015-2515642**

Dear Ms. Chiavetta:

Enclosed on behalf of PPL Electric Utilities Corporation ("PPL Electric") is an Addendum to the Annual Report for Program Year Nine (9), of PPL Electric's Act 129 Plan. This Addendum updates the total resource cost (TRC) tables in the PY9 Annual Report filed with the PA PUC on November 14, 2018. Revisions to the tables are solely related to TRC calculations for non-energy benefits related to fossil fuels. There are no changes to the verified gross or net savings, to any costs reported by PPL Electric Utilities, to participant counts, nor to any findings, conclusions, and recommendations. The portfolio-level PY9 net savings TRC has been updated from 1.5 to 1.53 (Table 2-15), and the Phase III to date portfolio-level net savings TRC has been updated from 1.51 to 1.52 (Table 2-17). For individual programs with non-energy benefits related to fossil fuels, some revisions were made to TRC net present value (NPV) benefits and cost and to the TRC ratio. This Addendum includes all tables with revisions.

Pursuant to 52 Pa. Code § 1.11, the enclosed document is to be deemed filed on November 20, 2018, which is the date it was Submitted electronically via the Commission's E-Filing System.

Respectfully submitted,

Michael J. Shafer

Enclosure

cc: Greg Clendenning- NMR Group Inc.—Act 129 Statewide Evaluator --Email and Fed-Ex
Salil Gogte- Ecometric Consulting --Email
Jesse Smith- Demand Side Analytics --Email

PPL Electric Utilities Addendum to the Annual Report to the Pennsylvania Public Utility Commission

**PHASE III OF ACT 129 PY9 ANNUAL REPORT
(JUNE 1, 2017 – MAY 31, 2018)
FOR PENNSYLVANIA ACT 129 OF 2008
ENERGY EFFICIENCY AND CONSERVATION PLAN**

Prepared by:
Cadmus



Prepared for:
PPL Electric Utilities

November 15, 2018
PY9 Annual Report Addendum – Revised TRC Tables
Submitted November 19, 2018

This Addendum updates the total resource cost (TRC) tables in the PY9 Annual Report filed with the PA PUC on November 14, 2018.

Revisions to the tables are related solely to TRC calculations for non-energy benefits related to fossil fuels. There are no changes to the verified gross or net savings, to any costs reported by PPL Electric Utilities, to participant counts, nor to any findings, conclusions, and recommendations.

The portfolio-level PY9 net savings TRC has been updated from 1.5 to 1.53 (Table 2-15), and the Phase III to date portfolio-level net savings TRC has been updated from 1.51 to 1.52 (Table 2-17). For individual programs with non-energy benefits related to fossil fuels, some revisions were made to TRC net present value (NPV) benefits and cost and to the TRC ratio. This Addendum includes all tables with revisions.

Table 2-14. PY9 Gross TRC Ratios by Program (\$1,000)

Program	TRC NPV Benefits	TRC NPV Costs	TRC Ratio	TRC Net Benefits (Benefits–Costs)
Appliance Recycling	\$3,780	\$2,074	1.82	\$1,705
Efficient Lighting	\$61,090	\$13,546	4.51	\$47,544
Energy Efficiency Kits and Education	\$5,618	\$2,032	2.76	\$3,586
Energy Efficient Home	\$14,364	\$16,547	0.87	(\$2,182)
Home Energy Education	\$2,099	\$1,623	1.29	\$476
Low-Income WRAP ⁽¹⁾	\$6,472	\$9,371	0.69	(\$2,899)
Student Energy Efficient Education	\$2,230	\$1,103	2.02	\$1,128
Residential (Including Low Income) Subtotal ^{(2) (3) (4)}	\$95,373	\$46,296	2.06	\$49,077
Non-Residential Subtotal ⁽²⁾	\$100,943	\$72,573	1.39	\$28,370
Demand Response	\$6,188	\$1,491	4.15	\$4,697
Common Portfolio Costs	-	\$8,652	-	(\$8,652)
Portfolio Total	\$202,504	\$129,012	1.57	\$73,492

⁽¹⁾ Programs with unverified savings do not include verified or associated participant measure costs in cost-effectiveness.
⁽²⁾ Total may not match sum of rows due to rounding.
⁽³⁾ Low-income is shown as a sub-sector of residential in this table.
⁽⁴⁾ Residential and Portfolio Total benefits do not match sum of rows due to the exclusion of 5,938 MWh/yr and 0.93 MW of Home Energy Education uplift savings from both the residential total and portfolio total to avoid double-counting.

Table 2-15. PY9 Net TRC Ratios by Program (\$1,000)

Program	TRC NPV Benefits	TRC NPV Costs	TRC Ratio	TRC Net Benefits (Benefits-Costs)
Appliance Recycling	\$2,495	\$2,074	1.20	\$420
Efficient Lighting	\$50,705	\$11,509	4.41	\$39,196
Energy Efficiency Kits and Education	\$5,618	\$2,032	2.76	\$3,586
Energy Efficient Home	\$9,755	\$11,518	0.85	(\$1,763)
Home Energy Education	\$2,099	\$1,623	1.29	\$476
Low-Income WRAP ⁽¹⁾	\$6,472	\$9,371	0.69	(\$2,899)
Student Energy Efficient Education	\$2,230	\$1,103	2.02	\$1,128
Residential (Including Low Income) Subtotal ^{(2) (3) (4)}	\$79,092	\$39,230	2.02	\$39,862
Non-Residential Subtotal ⁽²⁾	\$71,911	\$53,374	1.35	\$18,536
Demand Response	\$6,188	\$1,491	4.15	\$4,697
Common Portfolio Costs	-	\$8,652	-	(\$8,652)
Portfolio Total	\$157,191	\$102,748	1.53	\$54,443

⁽¹⁾ Programs with unverified savings do not include verified or associated participant measure costs in cost-effectiveness.
⁽²⁾ Total may not match sum of rows due to rounding.
⁽³⁾ Low-income is shown as a sub-sector of residential in this table.
⁽⁴⁾ Residential and Portfolio Total benefits do not match sum of rows due to the exclusion of 5,938 MWh/yr and 0.93 MW of Home Energy Education uplift savings from both the residential total and portfolio total to avoid double-counting.

Table 2-16. P3TD Gross TRC Ratios by Program (\$1,000)

Program	TRC NPV Benefits	TRC NPV Costs	TRC Ratio	TRC Net Benefits (Benefits-Costs)
Appliance Recycling	\$7,544	\$3,872	1.95	\$3,672
Efficient Lighting	\$130,471	\$27,373	4.77	\$103,098
Energy Efficiency Kits and Education	\$7,599	\$3,782	2.01	\$3,818
Energy Efficient Home	\$19,522	\$27,689	0.71	(\$8,167)
Home Energy Education	\$3,561	\$2,353	1.51	\$1,208
Low-Income WRAP ⁽¹⁾	\$6,916	\$12,719	0.54	(\$5,803)
Student Energy Efficient Education	\$3,837	\$1,929	1.99	\$1,908
Residential (Including Low Income) Subtotal ^{(2) (3) (4)}	\$179,190	\$79,717	2.25	\$99,473
Non-Residential Subtotal ⁽²⁾	\$178,379	\$132,922	1.34	\$45,457
Demand Response	\$5,749	\$2,032	2.83	\$3,717
Common Portfolio Costs	-	\$15,661	-	(\$15,661)
Portfolio Total	\$363,317	\$230,331	1.58	\$132,986

⁽¹⁾ Programs with unverified savings do not include verified or associated participant measure costs in cost-effectiveness.
⁽²⁾ Total may not match sum of rows due to rounding.
⁽³⁾ Low-income is shown as a sub-sector of residential in this table.
⁽⁴⁾ Residential and Portfolio Total benefits do not match sum of rows due to the exclusion of 5,938 MWh/yr and 0.93 MW of Home Energy Education Uplift savings excluded from both the residential total and portfolio total to avoid double counting.

Table 2-17. P3TD Net TRC Ratios by Program (\$1,000)

Program	TRC NPV Benefits	TRC NPV Costs	TRC Ratio	TRC Net Benefits (Benefits–Costs)
Appliance Recycling	\$4,963	\$3,872	1.28	\$1,091
Efficient Lighting	\$108,291	\$23,855	4.54	\$84,435
Energy Efficiency Kits and Education	\$7,599	\$3,782	2.01	\$3,818
Energy Efficient Home	\$13,136	\$19,828	0.66	(\$6,691)
Home Energy Education	\$3,561	\$2,353	1.51	\$1,208
Low-Income WRAP ⁽¹⁾	\$6,916	\$12,719	0.54	(\$5,803)
Student Energy Efficient Education	\$3,837	\$1,929	1.99	\$1,908
Residential (Including Low Income) Subtotal ^{(2) (3) (4)}	\$148,043	\$68,338	2.17	\$79,705
Non-Residential Subtotal ⁽²⁾	\$132,882	\$102,146	1.30	\$30,736
Demand Response	\$5,749	\$2,032	2.83	\$3,717
Common Portfolio Costs	-	\$15,661	-	(\$15,661)
Portfolio Total	\$286,674	\$188,177	1.52	\$98,497
⁽¹⁾ Programs with unverified savings do not include verified or associated participant measure costs in cost-effectiveness. ⁽²⁾ Total may not match sum of rows due to rounding. ⁽³⁾ Low-income is shown as a sub-sector of residential in this table. ⁽⁴⁾ Residential and Portfolio Total benefits do not match sum of rows due to the exclusion of 5,938 MWh/yr and 0.93 MW of Home Energy Education Uplift savings excluded from both the residential total and portfolio total to avoid double counting.				

Table 4-8. Summary of Program Finances—Gross Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	\$8,162		\$16,454	
2	EDC Incentives to Trade Allies	-		-	
3	Participant Costs (net of incentives/rebates paid by utilities)	\$57,048		\$103,711	
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	\$65,210		\$120,165	
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$151	-	\$408	-
7	Marketing ⁽⁴⁾	-	\$309	-	\$1,199
8	Program Delivery ⁽⁵⁾	-	\$5,227	-	\$9,436
9	EDC Evaluation Costs	-		-	
10	SWE Audit Costs	-		-	
11⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$5,687		\$11,043	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	\$1,676		\$1,713	
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$72,573		\$132,922	
14	Total NPV Lifetime Electric Energy Benefits	\$87,565		\$152,873	
15	Total NPV Lifetime Electric Capacity Benefits	\$14,685		\$24,033	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$4,831		\$7,174	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	(\$6,137)		(\$5,702)	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$100,943		\$178,379	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	1.39		1.34	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio-level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs.
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 4-9. Summary of Program Finances–Net Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	\$8,162		\$16,454	
2	EDC Incentives to Trade Allies	-		-	
3	Participant Costs (net of incentives/rebates paid by utilities)	\$38,302		\$73,392	
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	\$46,464		\$89,846	
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$151	-	\$408	-
7	Marketing ⁽⁴⁾	-	\$309	-	\$1,199
8	Program Delivery ⁽⁵⁾	-	\$5,227	-	\$9,436
9	EDC Evaluation Costs	-		-	
10	SWE Audit Costs	-		-	
11 ⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$5,687		\$11,043	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	\$1,224		\$1,257	
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$53,374		\$102,146	
14	Total NPV Lifetime Electric Energy Benefits	\$62,226		\$103,501	
15	Total NPV Lifetime Electric Capacity Benefits	\$10,497		\$26,570	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$3,551		\$6,864	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	(\$4,363)		(\$4,054)	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$71,911		\$132,882	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	1.35		1.30	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio-level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs.
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 9-11. Summary of Efficient Lighting Program Finances – Net Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ^[10]	
1	EDC Incentives to Participants	\$6,553		\$17,601	
2	EDC Incentives to Trade Allies	-		-	
3	Participant Costs (net of incentives/rebates paid by utilities)	\$3,392		\$2,544	
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	\$9,946		\$20,145	
		EDC	CSP	EDC	EDC
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$44	-	\$135	-
7	Marketing ⁽⁴⁾	-	\$280	-	\$514
8	Program Delivery ⁽⁵⁾	-	\$1,239	-	\$2,453
9	EDC Evaluation Costs	-		-	
10	SWE Audit Costs	-		-	
11 ⁽⁷⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$1,563		\$3,102	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	-		\$608	
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$11,509		\$23,855	
14	Total NPV Lifetime Electric Energy Benefits	\$30,902		\$65,165	
15	Total NPV Lifetime Electric Capacity Benefits	\$5,669		\$11,844	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$15,604		\$32,648	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	(\$1,471)		(\$1,367)	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ^{(8) (1)}	\$50,705		\$108,291	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	4.41		4.54	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include: avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
^[10] All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 11-13. Summary of Energy Efficient Home Program Finances—Gross Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	\$2,520		\$4,075	
2	EDC Incentives to Trade Allies	-		-	
3	Participant Costs (net of incentives/rebates paid by utilities)	\$9,849		\$16,095	
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	\$12,369		\$20,170	
		EDC	CSP	EDC	CSP
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$45	-	\$116	-
7	Marketing ⁽⁴⁾	-	\$212	-	\$388
8	Program Delivery ⁽⁵⁾	-	\$3,365	-	\$6,065
9	EDC Evaluation Costs	-		-	
10	SWE Audit Costs	-		-	
11⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$3,622		\$6,569	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	\$555		\$950	
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$16,547		\$27,689	
14	Total NPV Lifetime Electric Energy Benefits	\$8,870		\$13,269	
15	Total NPV Lifetime Electric Capacity Benefits	\$2,185		\$3,122	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$365		\$396	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$2,944		\$2,736	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$14,364		\$19,522	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	0.87		0.71	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 11-14. Summary of Energy Efficient Home Program Finances—Net Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	\$2,520		\$4,075	
2	EDC Incentives to Trade Allies	-		-	
3	Participant Costs (net of incentives/rebates paid by utilities)	\$5,021		\$8,419	
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	\$7,541		\$12,494	
		EDC	CSP	EDC	CSP
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$45	-	\$116	-
7	Marketing ⁽⁴⁾	-	\$212	-	\$388
8	Program Delivery ⁽⁵⁾	-	\$3,365	-	\$6,065
9	EDC Evaluation Costs	-		-	
10	SWE Audit Costs	-		-	
11⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$3,622		\$6,569	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	\$355		\$765	
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$11,518		\$19,828	
14	Total NPV Lifetime Electric Energy Benefits	\$6,186		\$9,062	
15	Total NPV Lifetime Electric Capacity Benefits	\$1,456		\$2,057	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$233		\$272	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$1,879		\$1,746	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$9,755		\$13,136	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	0.85		0.66	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include: avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 12-11. Summary of WRAP Finances—Gross Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	-	-	-	-
2	EDC Incentives to Trade Allies	-	-	-	-
3	Participant Costs (net of incentives/rebates paid by utilities)	-	-	-	-
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	-	-	-	-
		EDC	CSP	EDC	CSP
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$178	-	\$453	-
7	Marketing ⁽⁴⁾	-	\$338	-	\$601
8	Program Delivery ⁽⁵⁾	-	\$8,855	-	\$11,665
9	EDC Evaluation Costs	-	-	-	-
10	SWE Audit Costs	-	-	-	-
11 ⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$9,371		\$12,719	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	-	-	-	-
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$9,371		\$12,719	
14	Total NPV Lifetime Electric Energy Benefits	\$2,927		\$3,235	
15	Total NPV Lifetime Electric Capacity Benefits	\$592		\$654	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$1,232		\$1,429	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$1,720		\$1,598	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$6,472		\$6,916	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	0.69		0.54	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include: avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 12-12. Summary of WRAP Finances–Net Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	-	-	-	-
2	EDC Incentives to Trade Allies	-	-	-	-
3	Participant Costs (net of incentives/rebates paid by utilities)	-	-	-	-
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	-	-	-	-
		EDC	EDC	CSP	EDC
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$178	-	\$453	-
7	Marketing ⁽⁴⁾	-	\$338	-	\$601
8	Program Delivery ⁽⁵⁾	-	\$8,855	-	\$11,665
9	EDC Evaluation Costs	-	-	-	-
10	SWE Audit Costs	-	-	-	-
11 ⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$9,371		\$12,719	
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	-	-	-	-
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$9,371		\$12,719	
14	Total NPV Lifetime Electric Energy Benefits	\$2,927		\$3,235	
15	Total NPV Lifetime Electric Capacity Benefits	\$592		\$654	
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$1,232		\$1,429	
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$1,720		\$1,598	
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$6,472		\$6,916	
19	TRC Benefit-Cost Ratio ⁽⁹⁾	0.69		0.54	

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include: avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 13-14. Summary of Energy Efficiency Kits and Education Program Finances—Gross Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	-	-	-	-
2	EDC Incentives to Trade Allies	-	-	-	-
3	Participant Costs (net of incentives/rebates paid by utilities)	-	-	-	-
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	-	-	-	-
		EDC	CSP	EDC	CSP
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$40	-	\$100	-
7	Marketing ⁽⁴⁾	-	\$150	-	\$250
8	Program Delivery ⁽⁵⁾	-	\$1,842	-	\$3,432
9	EDC Evaluation Costs	-	-	-	-
10	SWE Audit Costs	-	-	-	-
11⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$2,032	-	\$3,782	-
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	-	-	-	-
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$2,032	-	\$3,782	-
14	Total NPV Lifetime Electric Energy Benefits	\$2,342	-	\$3,844	-
15	Total NPV Lifetime Electric Capacity Benefits	\$443	-	\$746	-
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$415	-	\$763	-
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$2,418	-	\$2,247	-
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$5,618	-	\$7,599	-
19	TRC Benefit-Cost Ratio ⁽⁹⁾	2.76	-	2.01	-

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for plan design and development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.

Table 13-15. Summary of Energy Efficiency Kits and Education Program Finances–Net Verified

Row #	Cost Category	PYTD (\$1,000)		P3TD (\$1,000) ⁽¹⁰⁾	
1	EDC Incentives to Participants	-	-	-	-
2	EDC Incentives to Trade Allies	-	-	-	-
3	Participant Costs (net of incentives/rebates paid by utilities)	-	-	-	-
4	Incremental Measure Costs (Sum of rows 1 through 3) ⁽¹⁾	-	-	-	-
		EDC	CSP	EDC	CSP
5	Design & Development ⁽²⁾	-	-	-	-
6	Administration, Management, and Technical Assistance ⁽³⁾	\$40	-	\$100	-
7	Marketing ⁽⁴⁾	-	\$150	-	\$250
8	Program Delivery ⁽⁵⁾	-	\$1,842	-	\$3,432
9	EDC Evaluation Costs	-	-	-	-
10	SWE Audit Costs	-	-	-	-
11 ⁽⁶⁾	Program Overhead Costs (Sum of rows 5 through 10) ⁽¹⁾	\$2,032	-	\$3,782	-
12	NPV of increases in costs of natural gas (or other fuels) for fuel switching programs	-	-	-	-
13	Total NPV TRC Costs (Net present value of sum of rows 4, 11, and 12) ⁽⁷⁾	\$2,032	-	\$3,782	-
14	Total NPV Lifetime Electric Energy Benefits	\$2,342	-	\$3,844	-
15	Total NPV Lifetime Electric Capacity Benefits	\$443	-	\$746	-
16	Total NPV Lifetime Operation and Maintenance (O&M) Benefits	\$415	-	\$763	-
17	Total NPV Lifetime Non-Electric Benefits (Fossil Fuel, Water)	\$2,418	-	\$2,247	-
18	Total NPV TRC Benefits (Sum of rows 14 through 17) ⁽⁸⁾	\$5,618	-	\$7,599	-
19	TRC Benefit-Cost Ratio ⁽⁹⁾	2.76	-	2.01	-

⁽¹⁾ May not sum to total due to rounding.
⁽²⁾ All costs for Plan Design and Development are portfolio level costs and are assigned to customer sectors at the end of the phase. These portfolio costs are not assigned to specific programs.
⁽³⁾ Includes rebate processing, tracking system, general administration, program management, general management and legal, and technical assistance.
⁽⁴⁾ Includes the marketing ICSP and marketing costs by program ICSPs
⁽⁵⁾ Includes ICSP rebate processing, direct program management, customer support, technical assistance to customers, site visits, legal, QA/QC documentation. These costs cannot be quantified separately and are included as “Program Delivery” costs.
⁽⁶⁾ Rows 1-11 are presented in nominal dollars.
⁽⁷⁾ Total TRC Costs includes Total EDC Costs and Participant Costs.
⁽⁸⁾ Total TRC Benefits equals the sum of Total Lifetime Electric and Non-Electric Benefits. Benefits include: avoided supply costs, including the reduction in costs of electric energy, generation, transmission, and distribution capacity, and natural gas valued at marginal cost for periods when there is a load reduction.
⁽⁹⁾ TRC Ratio equals Total NPV TRC Benefits divided by Total NPV TRC Costs.
⁽¹⁰⁾ All program year (PYTD) expenditures and benefits are discounted to PY8 dollars for the Phase (P3TD) total.