Oklahoma Comprehensive Demand Program Portfolio

2024 Annual Report

In Accordance with Annual Reporting Requirements

Oklahoma Corporation Commission Utility Rules

165:35-41-7

July 1, 2025

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1.0 Executive Summary

Oklahoma Gas and Electric Company ("OG&E" or "Company") is submitting its Comprehensive Demand Program Portfolio Annual Report for 2024. This report is required to be submitted with the Oklahoma Corporation Commission ("OCC" or "Commission"") by July 1, 2025, pursuant to the Annual Reporting Requirements in OAC 165:35-451-7.

On July 8, 2021, OG&E filed a comprehensive portfolio of energy efficiency programs with the Oklahoma Corporation Commission for Program Years 2022-2024. This portfolio was approved by OCC Order No. 723207 in Cause No. PUD 202100121 on February 1, 2022. The focus of this report will be on the third Program Year ("PY2024"), spanning from January 1, 2024 to December 31, 2024, of the implementation cycle.

Below is a summary of the 2024 Demand Program Portfolio results.

2024 Summary of Results	Projected (Filed)	Actual	% Achieved
Expenses (with Labor)	$39,840,184	$39,757,554	100%
Net Energy Savings (kWh)	167,413,893	182,908,615	109%
Net Demand Savings (kW)	35,199	31,360	89%

Cost Effectiveness - TRC	1.26	2.87
Cost Effectiveness - PACT (UCT)	1.24	3.67
Cost Effectiveness - RIM	0.29	0.49
Cost Effectiveness - PCT	6.64	9.01
Cost Effectiveness - SCT	1.91	5.33

Levelized Cost per kWh	$0.037	$0.030

2.0 Demand Programs

OG&E offered customers four programs. Two of these programs were offered to residential customers, one to commercial/industrial and an educational program to all customers one for residential/commercial/industrial. The programs offered are the:

1. Home Energy Efficiency Program ("HEEP")
2. Weatherization Residential Assistance Program ("WRAP")
3. Commercial Energy Efficiency Program ("CEEP")
4. Education Program ("EP")

2.1 Demand Program Details

Program	Date Program was started or revised	Number of projects*	Actuals		
			Program Expenditure	Verified Net Energy Savings	Verified Net Demand Savings
HEEP	January 2010	166,919	$11,966,442	37,140,723	8,402
WRAP	January 2008	3,043	$5,824,478	9,765,129	2,890
CEEP	January 2013	1,068	$18,396,699	136,002,763	20,068
Total		171,030	$36,187,619	182,908,615	31,360

**The HEEP Number of projects includes lighting packages, (i.e., 125,000 packages were distributed to the Food Banks).*

Program	Date Program was started or revised	Number of Potential Customers	Customer Category	Number of Projects Completed in 2024
HEEP	January 2010	710,124	Residential Customers	166,919
WRAP	January 2008	126,244	Low Income Residential Customers	3,043
CEEP	January 2013	132,163	Commercial/Industrial Customers	1,068
Education	January 2010	842,287	All Customers	32

2.2 Summary of Demand Program Costs

Projected

Program	Projected Program Costs (Filed)					
	Administrative	Inducements	Education & Marketing	Program Delivery	EM&V	Total
HEEP	$436,165	$6,456,841	$121,846	$4,833,720	$374,910	**$12,223,482**
WRAP	$320,000	$5,472,176	$145,000	$101,334	$202,002	**$6,240,512**
CEEP	$380,000	$9,888,282	$130,000	$7,597,908	$450,000	**$18,446,190**
Education	$80,000	$0	$0	$800,000	$0	**$880,000**
Planning	$100,000	$0	$0	$0	$0	**$100,000**
Research & Development	$1,950,000	$0	$0	$0	$0	**$1,950,000**
Total	**$3,266,165**	**$21,817,299**	**$396,846**	**$13,332,962**	**$1,026,912**	**$39,840,184**

Actuals

Program	Actual Program Costs					
	Administrative	Inducements	Education & Marketing	Program Delivery	EM&V	Total
HEEP	$281,603	$7,154,580	$115,803	$4,032,803	$381,653	**$11,966,442**
WRAP	$232,775	$4,999,460	$134,897	$258,368	$198,979	**$5,824,478**
CEEP	$436,239	$9,910,312	$120,084	$7,484,669	$445,396	**$18,396,699**
Education	$6,259	$0	$0	$760,816	$0	**$767,075**
Planning	$120,267	$0	$0	$0	$0	**$120,267**
Research & Development	$2,682,593	$0	$0	$0	$0	**$2,682,593**
Total	**$3,759,736**	**$22,064,352**	**$370,784**	**$12,536,655**	**$1,026,028**	**$39,757,554**

2.3 Summary of Energy and Demand Savings

Projected

Program	Projected (Filed)	
	Energy Savings (kWh)	Demand Savings (kW)
HEEP	35,440,026	6,238
WRAP	10,926,977	3,809
CEEP	121,046,890	25,152
Total	167,413,893	35,199

Actuals

Program	Actuals			
	Gross Energy Savings (kWh)	Gross Demand Savings (kW)	Verified Net Energy Savings (kWh)	Verified Net Demand Savings (kW)
HEEP	52,579,425	11,879	37,140,723	8,402
WRAP	9,924,588	2,829	9,765,129	2,890
CEEP	139,506,724	20,544	136,002,763	20,068
Total	202,010,737	35,252	182,908,615	31,360

2.4 Summary of Cost Effectiveness and Incentives

Projected

Cost Effectiveness Tests - Projected (Filed)					
Program	**TRC**	**UCT/PACT**	**RIM**	**PCT**	**SCT**
HEEP	1.40	1.22	0.28	9.58	2.39
WRAP	1.28	1.17	0.38	3.76	2.06
CEEP	1.19	1.27	0.28	6.64	1.60
Total	**1.26**	**1.24**	**0.29**	**6.64**	**1.91**

Projected Incentive	$5,668,528

Actuals

Cost Effectiveness Tests - Actuals					
Program	**TRC**	**UCT/PACT**	**RIM**	**PCT**	**SCT**
HEEP	2.97	3.09	0.55	7.91	6.10
WRAP	3.09	2.68	0.55	6.45	5.16
CEEP	3.18	5.07	0.46	10.22	6.12
Total	**2.87**	**3.67**	**0.49**	**9.01**	**5.33**

Actual Incentive	$5,543,204

3.0 Summary of Demand Portfolio Impacts

3.1 Summary of the Cumulative Portfolio Impacts

Program Year	Actual Costs	Filed Savings (kWh)	Verified Net Actual Savings (kWh)
2011	$18,201,000	45,492,000	60,743,000
2012	$14,515,000	45,492,000	65,902,000
2013	$40,939,000	90,315,000	82,315,000
2014	$47,352,000	137,112,000	103,076,000
2015	$42,336,000	143,917,000	100,412,000
2016	$33,342,000	95,524,000	133,011,000
2017	$37,587,000	96,994,000	147,479,000
2018	$37,225,000	92,349,000	173,918,000
2019	$35,111,399	158,009,167	155,696,390
2020	$33,964,158	158,085,474	168,539,038
2021	$35,474,777	158,160,901	170,956,762
2022	$36,805,975	170,407,432	185,050,738
2023	$38,827,062	168,002,055	179,122,489
2024	$39,757,554	167,413,893	182,908,615

3.2 Summary of the Portfolio Levelized Costs

Program	Levelized cost/kWh
Demand Portfolio	0.030
HEEP	0.041
WRAP	0.067
CEEP	0.021
Residential Sector	0.047
Commercial Sector	0.021
*Demand Portfolio includes Planning, Regulatory, and R&D Costs	

3.3 Summary of Demand Portfolio Funding and Energy Savings

Demand Portfolio Funding (DPF)	Total Annual Electric Revenue (TAER)	% DPF/TAER
$39,757,554	2,502,549,019	1.6%

Demand Portfolio Energy Savings (DPES) MWh	Total Annual Energy Sales (TAES) MWh	% DPES/TAES
182,909	29,384,976	0.622%

3.4 Summary of the Portfolio Lost Revenues

The PY2024 projected Lost Net Revenues (Filed) was $13,775,015. Actual Lost Net Revenues amounted to $14,205,619.

3.5 Utilities Annual Growth

Year	Annual Metered Growth Rate		Average Growth Rate		
	Energy	Demand	Residential	Commercial	Industrial
2022	27,295,200	7351	9,617,976	7,179,624	7,592,560
2023	27,218,839	7432	8,892,773	7,975,768	7,446,685
2024	29,387,976	7435	9,067,611	9,832,529	7,534,933
Average Growth Rate (2022-2024)	5.5%	3.3%	1.1%	17.3%	0.6%

3.6 Reduced Emissions and Water Consumption at Generation

2024	SO_2		NO_X		CO_2e		Fresh Water	
Portfolio	21.9	Tons	87.0	Tons	120,134	Tons	33.5	million gallons
Factors	0.2	lb/MWh	0.9	lb/MWh	1,212	lb/MWh	172.5	gallons/MWh

Customer Avoided Water purchase

In PY2024 residential water savings measures reduced residential customers' water

consumption by 82,629,687 gallons. The water bill savings associated with the reduction in water consumption are applied as Non-Energy Benefits ("NEBs") in the AEG cost benefit analysis.

4.0 Details of Demand Programs

4.1 Weatherization Residential Assistance Program

The OG&E Weatherization Residential Assistance Program is a program designed for low-income residential customers. Customers can enroll in the program by calling the OG&E call center or by logging on to OG&E's website (OG&E - Weatherization (oge.com)). This program allows the customer to participate in measures to assist in managing energy consumption and therefore cost. OG&E residential customers are eligible to apply for WRAP if they own, rent, or lease their single-family home, duplex, or mobile home; have incomes at or below $60,000; or are owners of multifamily units whose rental units are 66% occupied by hard-to-reach customers pursuant to OAC 165:35-41-3 definition of "Hard-to-reach customers." WRAP is designed to improve the thermal envelope of the dwelling, thereby decreasing the amount of energy consumed and improving the comfort and safety of the home.

OG&E partnered with Central Oklahoma Habitat for Humanity to assist the non-profit agency in providing weatherization services to qualified OG&E customers. Additional homes were weatherized through a joint program made possible with funding from OG&E and Oklahoma Natural Gas ("ONG").

In 2024, OG&E weatherized 3,043 homes at an average cost of $1,644 per home. OG&E and ONG jointly weatherized 402 homes. One challenge and possible opportunity is that while the customers may be eligible for WRAP, the home may not qualify due to program restrictions for health and safety reasons. For example, OG&E will not weatherize a home that has unvented combustion space heaters or open flame heaters as its main source of heat. The challenge is to determine how to fix or modify these homes so that they can be weatherized safely and still be cost effective. Through the WRAP enhancement R&D pilot; explained in detail in section 4.5, WRAP introduced the Repair to Qualify ("RTQ") option that allowed the program to perform low-cost repairs on customer's homes, which then met the requirements for the homes to receive weatherization as well.

4.2 Home Energy Efficiency Program

The Home Energy Efficiency Program consists of five program channels to access the residential customer market. The Residential Solutions channel addresses single-family and multi-family homes with efficient lighting, envelope, and other mechanical system measures. The heating, ventilation, and air conditioning ("HVAC") Tune-up channel addresses HVAC units across all segments of the residential market. The Consumer Products channel offers rebates on lighting and other household equipment at retail point-of-purchase and food pantries for residential customers. The School Outreach, a.k.a. LivingWise™, channel offers educational materials and kits with energy saving measures for students to take home and install. The Positive Energy New Home Construction channel addresses new residential homes constructed with comprehensive energy efficient standards.

The residential solutions channel experienced over 3,500 face-to-face interactions with OG&E customers in their homes or apartments, while supplying them with direct install materials and education on what Energy Efficiency means. The knowledge and value of Energy Advisors and Senior Field Representatives was expanded by each of them acquiring BPI certifications. The effort is more in line with industry standards and grows the possibilities of what both single-family and multi-family channels can offer OG&E customers.

PY2024 measure highlights include 2,122 multi-family units received direct install materials consisting of LEDs, advanced power taps, and water measures. There were 1,472 in-home assessments completed, 468 attic insulation rebates, 329 window submissions, 2,537 HVAC tune-ups completed, with 23 trade allies participating. 2,549 Air & Duct sealing projects in multi-family units were performed along with 104 rebates for new A/C units. In Consumer Products there were ten measures available – 1,287 smart thermostats, 524,212 total LED bulbs (500,000 of those bulbs distributed to Food Banks), 32,813 advanced power strips (20,000 of those power strips distributed to Food Banks), 549 bathroom ventilation fans, 53,701 cans of aerosol foam sealant (5,925 of those distributed to Food Banks), 366 dehumidifiers, 35 water heater jackets, 174 A/C window units, 707 room air purifiers, 577 water dispensers discounted through 41 different retailer companies with 192 locations represented. The LivingWise™ Schools Outreach channel distributed 14,054 kits to teachers and students.

1,757 Positive Energy Homes were constructed with 38 builders participating. Of those homes, 66 qualified for the Ground Source Heat Pump Bonus. In PY2022, Positive Energy New Home Construction redesigned the program and launched a tiered structure as well as a multi-family component. The tiered structure consists of two categories, homes larger than 1800 square feet and homes equal to or smaller than 1800 square feet, each with three levels based on kWh saved. The revamped tiered structure was well received by home builders and raters alike.

Positive Energy New Home Construction

Program	Homes	Program Savings	
	Number of Homes	Energy Savings (kWh)	Demand Savings (kW)
Positive Energy New Home Construction	1,757	2,418,946	823

Program	Actual Program Costs						
	Administrative	Inducements	Education & Marketing	Program Delivery	EM&V	Allocated Labor	Total
Positive Energy New Home Construction	$43,262	$1,356,226	$21,952	$764,460	$72,346	$10,119	**$2,268,365**

Program	Cost Effectiveness Tests - Actuals				
	TRC	PACT	RIM	PCT	SCT
Positive Energy New Home Construction	1.14	1.62	0.45	2.30	2.06

4.3 Commercial Energy Efficiency Program

The Commercial Energy Efficiency Program consists of six channels of customer participation opportunities. The Commercial & Industrial Solutions ("C&I Solutions") channel targets prescriptive and custom measures for commercial customers. The HVAC Replacement & Tune Up channel offers tune-ups for HVAC systems. The Schools and Government Efficiency ("SAGE") channel is designed to overcome the barriers that are unique to that market segment. Small Business Midstream ("Midstream") discounts efficient lighting at point-of-purchase. Small Business Direct Install ("SBDI") targets small businesses for turn-key efficiency solutions. Continuous Energy Improvement ("CEI") targets large customers and provides operational, behavioral and other low/no-cost energy-saving opportunities. Additions to the CEEP program in this portfolio include commercial cooking measures and the Fleet Electrification Management ("FEM"), which supports customers in navigating how to transition from a traditional internal combustion engine fleet to an electric vehicle fleet.

CEEP continues to achieve monumental savings with 2024 coming in at over 110% of its gross annual goal. The C&I Solutions, CEI, and Midstream channels finished well beyond expectations by greatly exceeding their annual gross goals by 120%, 112% and 125%, respectively.

In PY2024, 252 different customers participated with 3,154 HVAC units tuned up; 15 trade allies completed the work. OG&E provided incentives to 19 school districts, and 41 city, state, and municipal customers, using 13 trade allies. There were 2,438 projects using 19 distributors in the Midstream channel, plus 404 projects for Small Business with 19 trade allies. Large C&I had 143 customers participate with 27 trade allies completing 157 projects. CEI partnered with 17 school districts and 23 industrial customers which accounted for over 314 buildings. The commercial cooking pilot finished 33 kitchen projects and paid $30,900 in inducements. The portfolio of future opportunities includes additional complex projects, attracting federal funding to Oklahoma based opportunities, more comprehensive measures, new custom measures, and new vertical markets.

4.4 Education Program

The Education Program goal is to help customers make informed decisions about long-term energy efficiency and encourage participation in programs that will assist them in managing their energy costs. The Education Program provides presentations to all customer classes, helping them to make informed decisions about energy use. This program was able to actively engage with residential customers and communities across the OG&E service territory. Similarly, the C&I sector received educational services tailored to their needs. Roughly 32 community events were held in 2024 at various locations across the service territory.

#	Name of Group	Group Size	#	Name of Group	Group Size
1	OKC Home and Garden Show	20,000	17	LCDA Feria de Salud	300
2	Guthrie Small Business Summit	75	18	ORA Expo	2,000
3	Muskogee Small Business Summit	75	19	Fesitval Amistad	1,000
4	Family Fun Fest	100	20	OCCC- Fiestas Patrias	1,500
5	CannaCon	750	21	State Fair Senior Day	20,000
6	Integris Hispanic Health Fair	500	22	Fiestas de Las Americas	1,500
7	Cinco de Mayo-Hispanic Chamber of Commerce	25,000	23	OK Building Summit	300
8	El Latino American Mother's Day	250	24	Warner Cow Chip Day	500
9	OPMCA	250	25	Parish Festival	1,500
10	Oklahoma Food & Beverage Expo	2,000	26	Teeny Tiny Town Summit	150
11	Restore OKC	100	27	Festival de Vida y Muerte- Dia de Muertos	20,000
12	SNI Metro Park Neighborhood Alliance Resource Fair	50	28	Midwest City Community Round Table	15
13	Energia para la Vida!	150	29	Haunt the Hill	500
14	Colombian Festival	500	30	Festival Chapin	2,500
15	Pancake Palooza	350	31	OML Annual Conference and Expo	600
16	Peruvian Fesitval of Oklahoma	500	32	Cielo Azul @ OKC Baseball Club	1,500

4.5 Research and Development

The R&D program approved by the Oklahoma Corporation Commission in Case No. PUD 202100121 as part of the current 2022-2024 demand portfolio includes four projects:

1. Utility-scale battery pilot to manage electric vehicle supply equipment ("EVSE") rapid charging loads ("Battery Pilot")
2. Managed flexible load technology pilot ("Flex Load Pilot")
3. WRAP enhancement pilot ("WRAP Pilot")
4. Schools renewable technology pilot ("Schools Pilot")

The Battery Pilot is a continuation of the utility-scale battery pilot from the last portfolio approved in Cause No. PUD 201800074. In that previous pilot, OG&E established the control mechanisms necessary to test and efficiently manage the fast-charging scenarios. OG&E has been successful in the controlled lab environment in identifying the most efficient battery dispatch methods while establishing the foundation for operational safety, grid interoperability, and grid security. Through this project, OG&E is determining how Battery Energy Storage Systems (BESS) can safely and securely operate and support Level 3 charging stations on highway corridors or at commercial fleet charging facilities in a manner that offsets demand (capacity or kW) while also improving load factor on the associated circuit(s).

The Flex Load Pilot is evaluating the ability of new technologies (such as internet connected electronic devices and dynamic control algorithms) and behavior-oriented rate structures and program designs to encourage customers to shift load.

The WRAP Pilot is assisting underserved and hard to reach customers with minor repairs needed at their homes so that they can become qualified and eligible to participate in OG&E's weatherization program.

The Schools Pilot is assessing how utilizing varying solar and energy storage technologies can result in peak demand reduction, increased usage of clean energy, reduced waste of energy, and improved operational costs, combining the most effective technologies, rates, and applications with related curriculum materials being made available to the students.

Project #1 – Utility-Scale Battery Pilot

The Battery Pilot provided a deeper understanding of the potential dispatch and impact of batteries in real-world applications as an EE measure, battery safety and how to manage it, and how batteries can be integrated into OG&E's distribution system. The pilot hypothesis is:

1. Battery storage technology deployed in a real-world field environment can be safely and securely operated to support level-3 charging stations on highway corridors or commercial fleet applications in a manner that offsets demand (capacity or kW) while also improving the load factor on the associated circuit(s).

OG&E explored deployment and dispatch of batteries for demand load reduction and customer energy cost savings associated with electric vehicle ("EV") charging.

Results :

- Load Handling & Stability: successfully maintained a continuous 600kW load
- Efficiency: overall recorded at ~92% which is within the expected range
- Charging Speed: peak times were 20-30 minutes for an 80% charge (L3 industry standard)
- Grid Impact: showed minimal impact on grid stability

Conclusion: demonstrated successful testing of utility scale batteries for L3 EV charging on highway corridors

Continued to observe battery cost trends in light of previous conclusion that battery systems must drop below the installed cost of the laboratory demonstration system (~$1000/kWh). Anticipate that the cost threshold will be achieved within the next 2-3 years, however pricing trends over the last year have been higher than expected.

Project #2 – Managed Flexible Load Electric Device Technology Pilot

This Flex Load Pilot is examining the ability of smart hardware, software, and behavioral-based tariff designs to collectively deliver value to customers and the grid by participating in more effective, efficient, or cleaner grid operation. Specifically, it is investigating the capabilities of applying smart control algorithms to electric devices to procure peak demand reduction, clean energy, fuel savings, and/or overall system capacity savings. A variety of algorithms and smart technologies are being tested to develop a better understanding of how to optimize effective, clean, and efficient use of flexible electro-technologies through smart controls.

This R&D project was initiated in 2022, and the pilot hypothesis was:

1. Smart-electro-technologies coupled with behavioral pricing mechanisms will

result in increased customer participation in more efficient and/or cleaner use of energy.

Overall results:

- Results completed in the OG&E Advanced Technologies Lab indicated that applying smart-electro-technologies coupled with smart control algorithms can procure peak demand reduction, clean energy, fuel savings, and/or overall system capacity savings

Managed Water Heating:

Grid Benefit: 25% reduction in peak usage

Customer Benefit: 11% reduction in cost (top customer achieved 42% cost reduction)

Environmental Benefits: 46% increase in renewable energy

Issues: Installation due to size of WH & connectivity issues between WH & GE mobile app, WH failures due to manufacturing defects

Managed EV Charging:

Grid Benefit: 16% reduction in peak usage (top customer achieved 50% reduction)

Customer Benefit: 24% reduction in cost (several customers saved over 50%)

Environmental Benefit: 16% increase in renewable energy

Participants liked the program, felt it provided value, comfort, ease of use, customer and grid value.

Conclusion: Field testing demonstrated a significant reduction in peak energy usage through the use of this technology, confirming the clear value and benefit of managing customer devices. The managed water heating program revealed some technology limitations, particularly related to superheating, that would lead us to consider alternative approaches. The managed EV charging program, however, showed strong potential and appears ready for inclusion in our future program portfolio.

Project #3 – WRAP Enhancement Pilot

Two initiatives will be pursued for this R&D pilot: Repair-to Qualify (“RTQ”) and offering

Enhanced Measures designed to increase the value customers will receive in the WRAP offering making it more accessible to under-served and hard-to-reach participants. Historically, 25% of the WRAP disqualifications related to minor repairs. The pilot will handle minor restorations, including but not limited to: Health and safety, Flue, HVAC, and roof flashing repairs.

The enhanced measures not currently included in WRAP are HVAC Tune-ups, repairs, and replacements, window AC replacements with mini-splits or Air Source Heat Pumps, and Water Heater Load Controls. This pilot seeks to offer these measures to enhance health, safety, and comfort for customers, as well as, to reduce energy use and costs.

- Qualified 2170 customers in the R&D Repair to Qualify Pilot to-date in 2024
- 364 customers have completed the RTQ through September (end of funding)
- Savings from these 364 customers/homes that normally would have been disqualified are approximately1,192,235 kWh and 334.5 kW

Conclusion:
The Weatherization Repair to Qualify initiative successfully reduced the number of disqualified homes by enabling needed repairs. The resulting energy savings proved to be cost-effective, and based on these positive outcomes, we plan to incorporate this offer into our new program portfolio.

Project #4 – Schools Renewable Technology Pilot

Like different commercial segments, schools are becoming increasingly interested in renewable energy technologies to help them lower their energy costs and carbon footprint. School budgets are typically limited, and with a wide variety of technologies and applications available, it can be difficult for schools to know which renewable energy solutions (e.g., solar and battery technologies) are most effective. Through this pilot, OG&E will test program components that target schools in underserved or disadvantaged communities. Specifically, this demonstration pilot will seek to try several combinations of technologies, rates, funding sources, and applications. It will also assess how solar and energy storage technologies can reduce peak demand, provide clean energy, reduce energy waste, realize societal benefits, and lower operating costs. OG&E's key objective for this pilot is to demonstrate the capability of renewable energy technology to deliver overall value to the school/education segment.

Results-To-Date

- Earlsboro (Active since 2/7/24) Bill Reduction To-Date = $6337 / 36,240 kWh (8-month total)
- Irving: (Active since 5/2/24) Bill Reduction To-Date = $27,729 / 128,640 kWh (5-month total)
- Field trips & education are complete for 2024.

Conclusion:
Both school systems participating in the Renewable Technology Pilot are now active and have experienced significant reductions in energy bills. The educational components are well underway, with students having completed field trips to technology lab and solar farms. Student engagement will continue through 2025 and beyond, with efforts focused on developing a proposed program to leverage electric school buses as a demand response resource.

5.0 Implementers

Below is a table that identifies all implementers involved in the Demand Programs.

Company	Name	Business Address	Business Email Address	Business Phone Number
Skyline Energy Solutions	Jamie O'Bryant	PO Box 718, Pauls Valley, OK	skylineenergy@yahoo.com	(405) 238-7800
Frontier Associates LLC	Jean Krausse	1515 S. Capital of Texas Hwy Suite 110, Austin, TX	admin@frontierassoc.com	(512) 372-8778
CLEAResult	Andrenika Whisenton	117 NW 8th St., Oklahoma City, OK 73102	Andrenika.whisenton@clearesult.com	(708) 864-4978
AM Conservation	Lee Moran	6650 Echo Ave Suite A Reno, NV 89506	lmoran@AMConservation.com	(775) 685-6134

6.0 High Volume Electricity User Opt-Out

High Volume Electricity User Opt-Out - Energy Efficiency - All Customers

Metric	Total Electric Sales	Eligible to Opt-Out	% of Eligible Opt-Out	Opted Out	% of Opted Out
Electric Sales (GWh)	29,385	13,947	47%	10,810	37%
Number of Customers		12,859		5,778	

High Volume Electricity User Opt-Out - Energy Efficiency - Municipal & State

Metric	2024		
	Opt-Out Eligible	Chose to Opt-Out of EE Programs	% Opt-Out
2024 Electric Sales (GWh)	2,905	446	15%
Number of Accounts	16,015	769	5%

7.0 Attachments

7.1 AEG Evaluation Measurement and Verification with Cost-Effectiveness Report

Oklahoma Gas & Electric (OG&E)

Oklahoma Comprehensive Demand Program Portfolio Evaluation for 2024

Prepared for: OG&E
By: Applied Energy Group
Date: June 9, 2025
AEG Key Contact: Barb Ryan

EXECUTIVE SUMMARY

This document summarizes the portfolio evaluation of Oklahoma Gas and Electric's (OG&E) Oklahoma Comprehensive Demand Program Portfolio in Program Year 2024 (PY2024), fulfilling the requirements outlined in Title 165: Oklahoma Corporation Commission, Chapter 35. Electric Utility Rules Subchapter 41, Demand Programs 165:35-41-7.

In PY2024, OG&E successfully operated the Comprehensive Demand Program Portfolio, spending 99.8% of budgeted expenditures and achieving:

- 109% of net energy savings goals,
- 89% of net demand reduction goals, and
- Benefit-to-cost ratio of 2.87 according to Total Resource Cost (TRC) Test.

Table ES-1 provides a summary of the portfolio evaluation findings.

Table ES-1 OG&E Portfolio Evaluation Summary

Savings	Gross Savings			Net Savings				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
Energy (kWh)	202,010,737	199,821,987	99%	167,413,893	182,908,615	109%	92%	1,913,911,091
Demand (kW)	35,252.4	34,891.2	99%	35,199.0	31,359.7	89%	90%	n/a

The portfolio includes three programs comprised of 12 delivery channels. Table ES-2 below lists the programs, program channels, and corresponding implementers.

Table ES-2 OG&E Oklahoma Programs and Channels

Program	Channel	Implementer
Home Energy Efficiency Program (HEEP)	Residential Solutions (RSOL)	CLEAResult
	Residential HVAC Replacement & Tune-up (Res HVAC)	
	Consumer Products (CPS)	
	Positive Energy – New Home Construction (PE-NHC)	
	LivingWise® Schools Outreach (LivingWise)	AM Conservation
Weatherization Residential Assistance Program (WRAP)		Skyline Energy Solutions (Skyline)
Commercial Energy Efficiency Program (CEEP)	Commercial and Industrial Solutions (CIS)	CLEAResult
	Schools and Government Efficiency (SAGE)	
	Small Business Direct Install (SBDI)	
	Small Business Midstream (Midstream)	
	C&I HVAC Replacement & Tune-up (C&I HVAC)	
	Continuous Energy Improvement (CEI)	

Table ES-3 provides corresponding summaries of the evaluated energy savings. Notably, CEEP is the highest contributor to energy savings.

Table ES-3 OG&E Portfolio Evaluation Impacts – Energy Savings

Program	Gross Energy Savings (kWh)			Net Energy Savings (kWh)				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
HEEP	52,579,425	52,264,463	99%	35,440,026	37,140,723	105%	71%	470,088,333
WRAP	9,924,588	9,765,129	98%	10,926,977	9,765,129	89%	100%	153,574,712
CEEP	139,506,724	137,792,395	99%	121,046,890	136,002,763	112%	99%	1,290,248,046
Total	**202,010,737**	**199,821,987**	**99%**	**167,413,893**	**182,908,615**	**109%**	**92%**	**1,913,911,091**

Figure ES-1 shows the distribution of energy savings by program.

Figure ES-1 OG&E Portfolio Energy Savings Summary

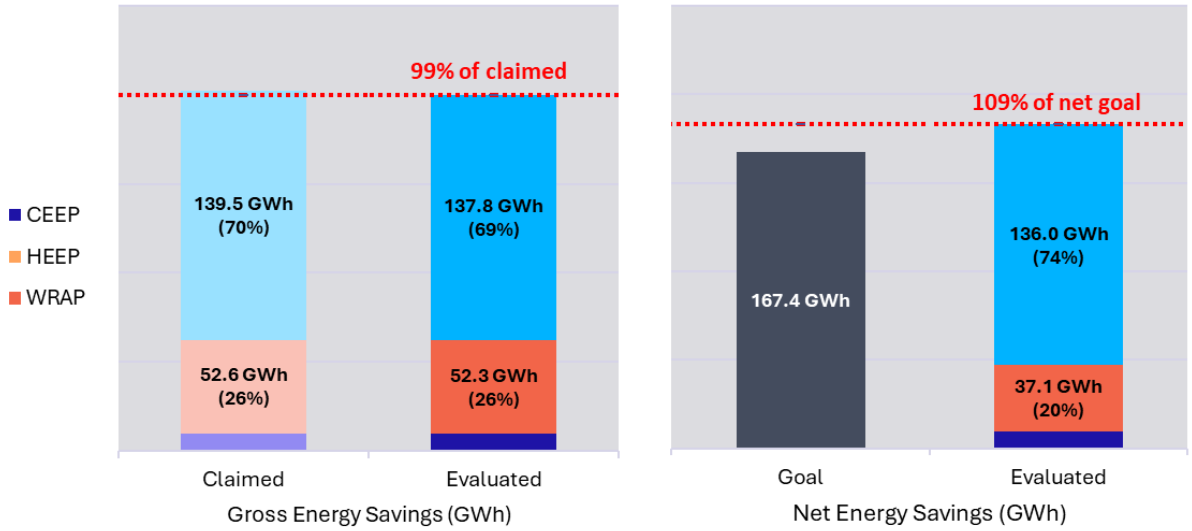

Table ES-4 provides corresponding summaries of the evaluated demand reductions. Again, CEEP is the highest contributor to demand reductions. Although realization rates for each program are high, the portfolio did not meet its demand goals.

Table ES-4 OG&E Portfolio Evaluation Impacts – Demand Reduction

Program	Gross Demand Reduction (kW)			Net Demand Reduction (kW)			
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG
HEEP	11,879.4	11,453.4	96%	6,238.0	8,402.0	135%	73%
WRAP	2,828.8	2,889.6	102%	3,809.0	2,889.6	76%	100%
CEEP	20,544.2	20,548.2	100%	25,152.0	20,068.1	80%	98%
Total	**35,252.4**	**34,891.2**	**99%**	**35,199.0**	**31,359.7**	**89%**	**90%**

Figure ES-2 shows the program distribution of demand reductions.

Figure ES-2 OG&E Portfolio Demand Reduction Summary

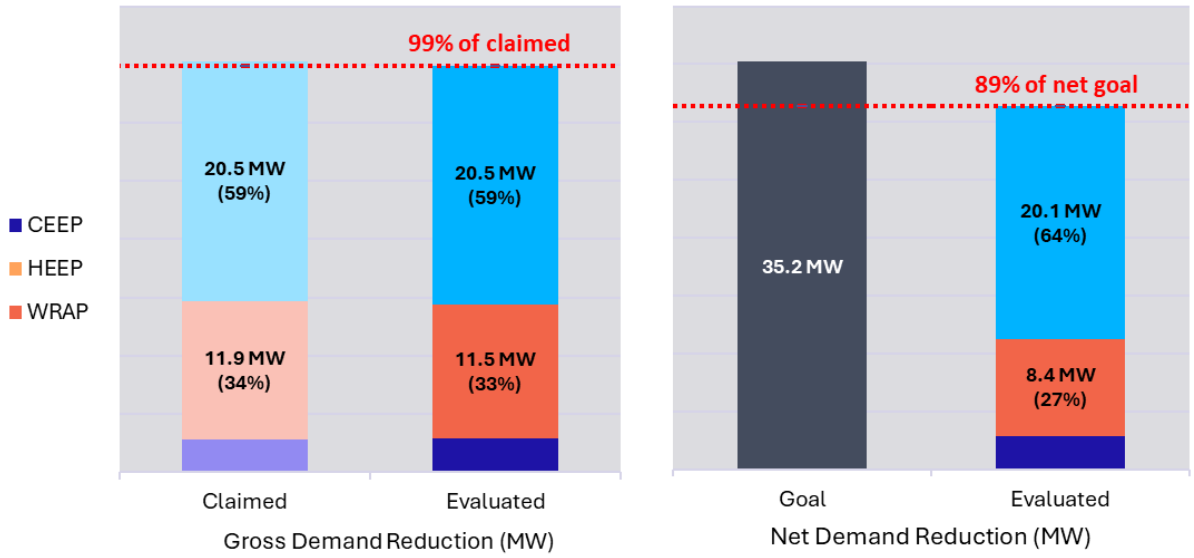

Table ES-5 shows the summary of budgeted and actual expenditures. OG&E spent $39,757,554 in PY2024, equivalent to 99.8% of the planned budget.

Table ES-5 Summary of Budgets and Actual Spend

Program	Budgeted Spend	Actual Spend	% Attained
HEEP	$12,223,482	$11,966,442	98%
WRAP	$6,240,512	$5,824,478	93%
CEEP	$18,446,190	$18,396,699	100%
Energy Education	$880,000	$767,075	87%
R&D	$1,950,000	$2,682,593	138%
Planning	$100,000	$120,267	120%
Total	**$39,840,184**	**$39,757,554**	**100%**

Table ES-6 shows the results of the cost-effectiveness (CE) analysis. Four out of five CE tests show HEEP, WRAP, CEEP, and the overall portfolio as cost-effective, achieving an overall TRC of 2.87 with $88,002,361 in TRC net benefits. Note that the Ratepayer Impact test (RIM) is below 1.0, which is expected and typical.[1]

[1] Retail rates, the costs that customers pay to consume energy and which inform utility revenues, typically exceed the avoided costs of capacity and of the generation, transmission, and distribution of energy. When an energy efficiency program achieves energy savings, the cost of lost revenues may exceed the benefits of avoided energy costs, resulting in a RIM test score lower than 1.0. This is typical of energy efficiency (EE) programming. A rare example of an EE program achieving a RIM test score greater than 1.0 would be a demand response program for which the avoided costs of capacity (and energy) exceed the administration and implementation costs of the program (and its lost revenues).

Table ES-6 Cost-Effectiveness Ratios and TRC Net Benefits Summary

Program	TRC	PACT	RIM	PCT	SCT	TRC Net Benefits
HEEP	2.97	3.09	0.55	7.91	6.10	$26,833,777
WRAP	3.09	2.68	0.55	6.45	5.16	$10,221,836
CEEP	3.18	5.07	0.46	10.22	6.12	$54,542,913
Energy Education	-	-	-	-	-	-$767,075
R&D	-	-	-	-	-	-$2,682,593
Planning	-	-	-	-	-	-$120,267
Overall	**2.87**	**3.67**	**0.49**	**9.01**	**5.33**	**$88,028,590**

Key Evaluation Findings and Recommendations

The impact and process evaluation of the PY2024 Oklahoma Comprehensive Demand Program Portfolio resulted in the following key recommendations. Further detail is provided in program-specific sections.

Home Energy Efficiency Program (HEEP) Findings and Recommendations

HEEP performed well in PY2025, generating high realization rates and achieving 105% and 135% of its net energy savings and demand reduction goals, respectively. Consumer Products (CPS) was the primary contributor to HEEP, representing 57% of energy savings and 50% of demand savings. A large proportion of CPS savings came from food bank distributions.

Improvements in savings calculations will lead to more accurate savings estimates.

- Give credit for attic insulation R values between R-38 and R-49.
- Calculate therms for weatherization measures installed at homes with natural gas heat.
- Use the Pennsylvania (PA) Technical Reference Manual (TRM) or a similar resource to estimate savings for faucet aerators instead of the Arkansas (AR) TRM.
- Correct heating savings for smart thermostats.
- Use ENERGY STAR® Qualified Product List (ES QPL) data to estimate claimed savings more accurately. For example, savings can be calculated more accurately for bathroom ventilating fans by using the actual CFM for each model.

Successful strategies should be continued in the next program cycle.

- **Continue to provide Trade Allies (TAs) dedicated specifically to rural Residential HVAC Replacement & Tune-Up (Res HVAC) customers.** This strategy has been extremely effective in reducing the backlog.
- **Keep the Res HVAC TA network**. OG&E can continue to rely on a well-trained team of TAs who are invested in the success of the channel.

There is an opportunity to improve training and outreach.

- **Support local training for Home Energy Rating System (HERS) Raters** to ensure there are sufficient resources in the future for Positive Energy – New Home Construction (PE-NHC) new home builders.
- **Send OG&E staff as guest speakers to schools** while LivingWise® Schools Outreach curriculum is being taught.
- **Coordinate LivingWise marketing efforts with AM Conservation** for potential synergies and cross-promotion.

New program design and delivery methods will require additional investigation.

- **Evaluate the new Residential Solutions (RSOL) enrollment process** within the first six months of implementation to ensure participants are being correctly funneled into the correct program tract, either RSOL or the Weatherization Residential Assistance Program(WRAP), based on their eligibility criteria.

- **Collect customer address and contact information from CPS food bank customers** so the evaluator can better verify participation. The proportion of savings achieved through food bank distribution is concerning considering no data is tracked for in-service rates (ISRs) or where measures are installed.

Weatherization Residential Assistance Program (WRAP) Findings and Recommendations

The Repair-to-Qualify (RTQ) pilot has been very successful in weatherizing homes that otherwise would not have qualified for WRAP. However, its funding was cut back in PY2024.

- **Increase funding for RTQ** to improve program reach and increase participation and energy savings.
- **Continue community marketing** and focus on underserved rural communities.

Claimed savings estimates rely on the 2017 Oklahoma Deemed Savings Manual (OK DSM).

- Use the AR TRM or a similar resource with more-current information to estimate claimed savings.

Incorporating other measures into the program will help offset losses of lighting savings caused by the enforcement of the Energy Independence and Security Act (EISA) backstop.

- Introduce "low-hanging fruit" measures like low-flow faucet aerators and showerheads, and Tier 1 and/or Tier 2 smart power strips.

Commercial Energy Efficiency Program (CEEP) Findings and Recommendations

All CEEP channels are performing at a high level. Realization rates are high, and the program surpassed its energy savings goals. However, in some instances, more transparency is needed in how savings are calculated.

- Provide more project information in program data so the evaluator can replicate savings more readily.
- Ensure energy savings and demand reduction are up to date in the program tracking database and match the values in each project's savings calculation workbook.

There are opportunities for improvement and clarity in program processes.

- **Communicate clearly to customers and TAs how C&I Solutions (CIS) budget limits on inducements will affect participation** (in PY2025 and beyond).
- **Understand how Schools and Government Efficiency (SAGE) TAs use the portal** and where their pain points are.
- **Streamline the SAGE application process** by retaining basic information about repeat customers.

Lighting, specifically horticulture lighting, continues to drive the majority of CEEP savings.

- Explore opportunities for additional measures for schools (such as lighting controls, weatherstripping and custom measures) and Midstream customers.

Several channels could benefit from expanded marketing and outreach.

- **Create segment-specific Small Business Direct Install (SBDI) marketing collateral.**
- **Recruit additional Small Business Midstream ("Midstream") restaurant supply distributors.**
- **Consider offering low- or no-interest financing to Midstream customers.**
- **Recruit Commercial and Industrial HVAC Replacement & Tune-Up (C&I HVAC) TAs willing to serve rural customers.**

Overview of Methods

The **impact evaluation** has three objectives:

1. Estimate evaluated gross savings,
2. Estimate evaluated net savings, and
3. Test program cost-effectiveness.

We used a combination of evaluation activities to produce a customized approach appropriate to each program and channel. Figure ES-3 shows the evaluation activities performed in the PY2024 evaluation and maps each activity to the corresponding objective.

Figure ES-3 Impact Evaluation Activities

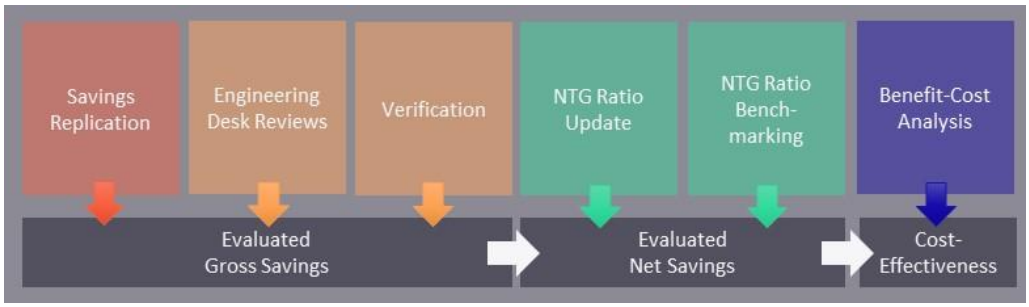

Table ES-7 summarizes the impact evaluation activities performed for each program and channel. We include detailed descriptions of each impact evaluation activity in Appendix A.

Table ES-7 Impact Evaluation Activities by Program and Channel

Channel	Savings Replication	Desk Review	Savings Verification	NTG Ratio Update	Benefit-Cost Analysis
HEEP					
RSOL	✓	✓	✓ [a]		✓
LivingWise	✓		✓ [a]		✓
Res HVAC	✓	✓	✓ [a]		✓
CPS	✓				✓
PE-NHC		✓		✓	✓
WRAP					
WRAP	✓	✓	✓ [a]		✓
CEEP					
CIS	✓	✓	✓ [b]		✓
SAGE	✓	✓	✓ [b]		✓
SBDI	✓	✓	✓ [b]		✓
Midstream		✓			✓
CEI		✓			✓
C&I HVAC	✓	✓	✓ [b]	✓	✓

[a] Participant surveys. For LivingWise, AEG used survey responses collected by the implementer via Home Energy Worksheets.

[b] Site visits

AEG's approach to process evaluations is to provide quantifiable, actionable results that can be replicated over time to measure progress toward the program's goals. AEG's analysis collectively contributes to developing actionable recommendations that capitalize on program strengths, overcome program weaknesses, streamline program data collection and tracking, and increase program key performance indicators (KPIs). Similar to the impact evaluation, we used a combination of activities to produce a customized approach appropriate to each program and channel. Figure ES-4 lists the typical evaluation activities performed in a process evaluation.

Figure ES-4 Process Evaluation Activities

Table ES-8 summarizes the process evaluation activities performed for each program and channel. We include detailed descriptions of each program evaluation activity in Appendix A.

Table ES-8 Process Evaluation Activities by Program and Channel

Program	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/ Interview	Cycle Time Analysis
HEEP					
RSOL	✓	✓			✓
LivingWise	✓	✓			
Res HVAC	✓	✓	✓		
CPS	✓	✓			
PE-NHC	✓	✓			
WRAP					
WRAP	✓	✓			
CEEP					
CIS	✓	✓	✓		✓
SAGE	✓	✓	✓		✓
SBDI	✓	✓	✓	✓	✓
Midstream	✓	✓	✓		
CEI	✓	✓			
C&I HVAC	✓	✓	✓		✓

As applicable, we developed a sampling plan to efficiently execute each analysis while maintaining a ± 10% error margin at a 90% confidence level at the channel and program levels. For activities that require customer interaction, such as surveys, interviews, and on-site, we reviewed the selected sample with OG&E staff to ensure that participants are not currently included in other OG&E surveys (i.e., avoid survey fatigue). We include detailed descriptions of the sample design in Appendix B.

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1 | INTRODUCTION

This report documents the portfolio evaluation of Oklahoma Gas and Electric's (OG&E) Oklahoma Comprehensive Demand Program Portfolio in Program Year 2024 (PY2024) by Applied Energy Group (AEG). OG&E is submitting this report to fulfill the requirements outlined in Title 165: Oklahoma Corporation Commission, Chapter 35. Electric Utility Rules Subchapter 41, Demand Programs 165:35-41-7.

Evaluation Objectives

The evaluation has the following key objectives:

- Perform an impact evaluation that estimates evaluated gross and net savings for energy (kWh) and peak demand (kW) and tests cost-effectiveness (CE) at each program level.
- Perform a process evaluation that results in quantifiable, actionable results OG&E can replicate over time to measure progress toward the program's goals.

Program Overview

The OG&E portfolio includes three programs comprised of 12 delivery channels. Table 1-1 lists the programs, program channels, and corresponding implementers.

Table 1-1 OG&E Oklahoma Programs and Channels

Program	Channel	Implementer
Home Energy Efficiency Program (HEEP)	Residential Solutions (RSOL)	CLEAResult
	Residential HVAC Replacement & Tune-up (Res HVAC)	
	Consumer Products (CPS)	
	Positive Energy – New Home Construction (PE-NHC)	
	LivingWise® Schools Outreach (LivingWise)	AM Conservation
Weatherization Residential Assistance Program (WRAP)		Skyline Energy Solutions (Skyline)
Commercial Energy Efficiency Program (CEEP)	Commercial and Industrial Solutions (CIS)	CLEAResult
	Schools and Government Efficiency (SAGE)	
	Small Business Direct Install (SBDI)	
	Small Business Midstream (Midstream)	
	C&I HVAC Replacement & Tune-up (C&I HVAC)	
	Continuous Energy Improvement (CEI)	

We provide detailed descriptions of each channel within the program-specific sections of this report.

Report Structure

The remainder of this report is structured as follows:

Section 2 – Portfolio-level evaluation results, key findings, and recommendations

Section 3 – HEEP evaluation results, key findings, and recommendations

Section 4 – WRAP evaluation results, key findings, and recommendations

Section 5 – CEEP evaluation results, key findings, and recommendations

We also provide supplemental information in the appendices:

Appendix A – Detailed Methodologies

Appendix B – Sample Design and Extrapolation

Appendix C – Portfolio Cost-Effectiveness (CE)

Appendix D – Net-to-Gross (NTG) Analysis

Acronyms

Table 1-2 below provides a summary of acronyms used throughout this report.

Table 1-2 Report Acronyms

Acronym	Definition
AHRI	Air Conditioning, Heating, and Refrigeration Institute
AR TRM	Arkansas Technical Resource Manual
C&I	Commercial & Industrial
CE	Cost-effectiveness
CFM	Cubic feet per minute
DI	Direct install
DLC	DesignLights Consortium
DSM	Demand-Side Management
EE	Energy efficiency
EISA	Energy Independence and Security Act of 2007
ES QPL	ENERGY STAR® Qualified Product List
EUL	Estimated useful life
GWh	Gigawatt-hour
HERS	Home Energy Rating System
HEW	Home Energy Worksheet
HVAC	Heating, ventilation, and air conditioning
ISR	In-service rate
kW	Kilowatt
kWh	Kilowatt-hour
LED	Light-emitting diode
MW	Megawatt
NTG	Net-to-Gross
OK DSM	Oklahoma Deemed Savings Manual
PA TRM	Pennsylvania (Act 129) Technical Resource Manual
PACT (UCT)	Program Administrator Cost Test (Utility Cost Test)

Acronym	Definition
PCT	Participant Cost Test
QA/QC	Quality assurance/quality control
R&D	Research and development
RIM	Ratepayer Impact Measure Test
ROB	Replace-on-Burnout
RR	Realization rate
SCT	Societal Cost Test
TRC	Total Resource Cost Test

Glossary of Terms

We provide a glossary of terms used throughout this report. We use the primary terms used by the U.S. Department of Energy (DOE) National Renewable Energy Laboratory (NREL) Uniform Methods Project (UMP) and provide other industry-accepted terminology as a reference.

Claimed (gross) savings. Values reported by a program implementer or administrator after the activities are complete (i.e., *ex ante* savings, reported savings, *ex ante* gross savings, reported gross savings).

Deemed savings. An estimate of energy savings or energy demand savings outcome (gross savings) for a single unit of an installed energy efficiency (EE) measure. This estimate has been developed from data sources and analytical methods widely accepted for the measure and applies to the situation being evaluated (i.e., stipulated values).

Evaluated (gross) savings. Values reported by an independent, third-party evaluator after the efficiency activities and impact evaluation are complete (i.e., *ex post* evaluation estimated savings, *ex post* savings, *ex post* gross savings, verified gross savings).

Free ridership. The program savings attributable to free riders (program participants who would have implemented a program measure or practice in the absence of the program).

Gross savings. Changes in energy consumption that result directly from program-related actions taken by participants in an EE program, regardless of why they participated.

Net-to-gross (NTG) analysis. Estimation of the NTG ratio, which is the net savings as a fraction of gross savings.

Net savings. Change in energy use attributable to a particular EE program. These changes may implicitly or explicitly include the effects of factors such as free ridership, participant and nonparticipant spillover, and induced market effects (i.e., evaluated net savings, verified net savings).

Realization Rate. The ratio of evaluated gross savings to claimed gross savings.

2 | OKLAHOMA COMPREHENSIVE DEMAND PROGRAM PORTFOLIO

This section summarizes the portfolio-level evaluation findings for the Oklahoma Comprehensive Demand Program Portfolio PY2024. We also include recommendations based on our findings and a summary of our NTG analysis.

Key Evaluation Findings

The impact evaluation established total portfolio evaluated gross energy savings of 199,821,987 kWh and demand reductions of 34,891kW, which amount to realization rates of 99% for each. The portfolio achieved 109% and 89% of its net energy savings and demand reduction goals, respectively. Table 2-1 provides a summary of the portfolio evaluation findings.

Table 2-1 OG&E Portfolio Evaluation Summary

Savings	Gross Savings			Net Savings				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
Energy (kWh)	202,010,737	199,821,987	99%	167,413,893	182,908,615	109%	92%	1,913,911,091
Demand (kW)	35,252.4	34,891.2	99%	35,199.0	31,359.7	89%	90%	n/a

Table 2-2 and Table 2-3 provide the corresponding summaries of the evaluated energy savings and demand reductions.

Table 2-2 OG&E Portfolio Evaluation Impacts – Energy Savings

Program	Gross Energy Savings (kWh)			Net Energy Savings (kWh)				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Net Lifetime
HEEP	52,579,425	52,264,463	99%	35,440,026	37,140,723	105%	71%	470,088,333
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Table 2-3 OG&E Portfolio Evaluation Impacts – Demand Reduction

Program	Gross Demand Reduction (kW)			Net Demand Reduction (kW)			
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CEEP	20,544.2	20,548.2	100%	25,152.0	20,068.1	80%	98%
Total	**35,252.4**	**34,891.2**	**99%**	**35,199.0**	**31,359.7**	**89%**	**90%**

Figure 2-1 and Figure 2-2 show the program distribution of energy savings and demand reductions, respectively. Notably, the Commercial Energy Efficiency Program (CEEP) is the highest contributor to energy savings and demand reductions. Although the program realization rates are high, the portfolio is not achieving its demand goals.

Figure 2-1 OG&E Portfolio Energy Savings Summary

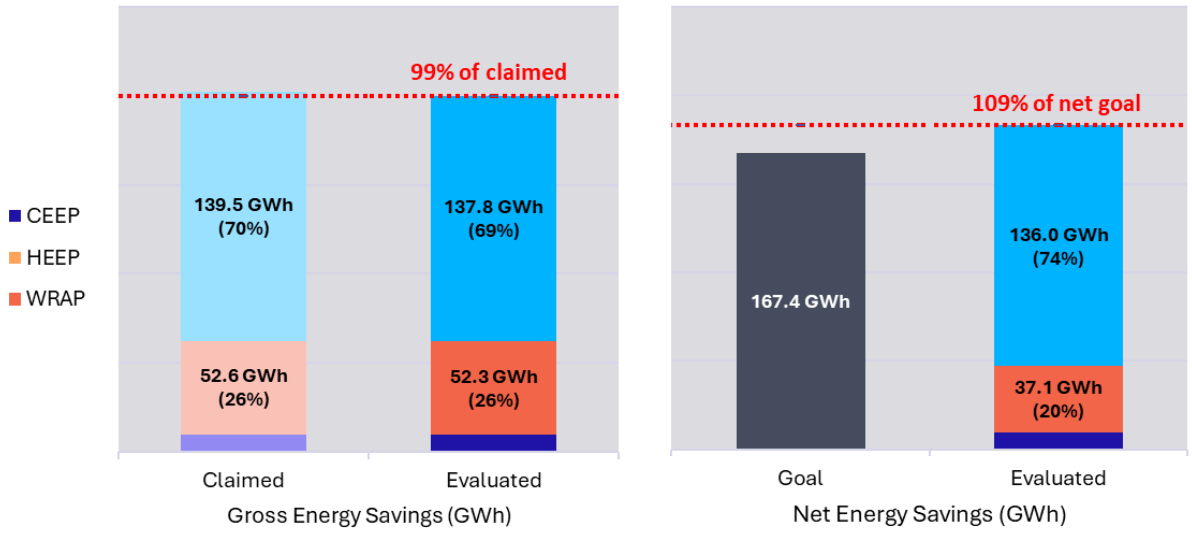

Figure 2-2 OG&E Portfolio Demand Reduction Summary

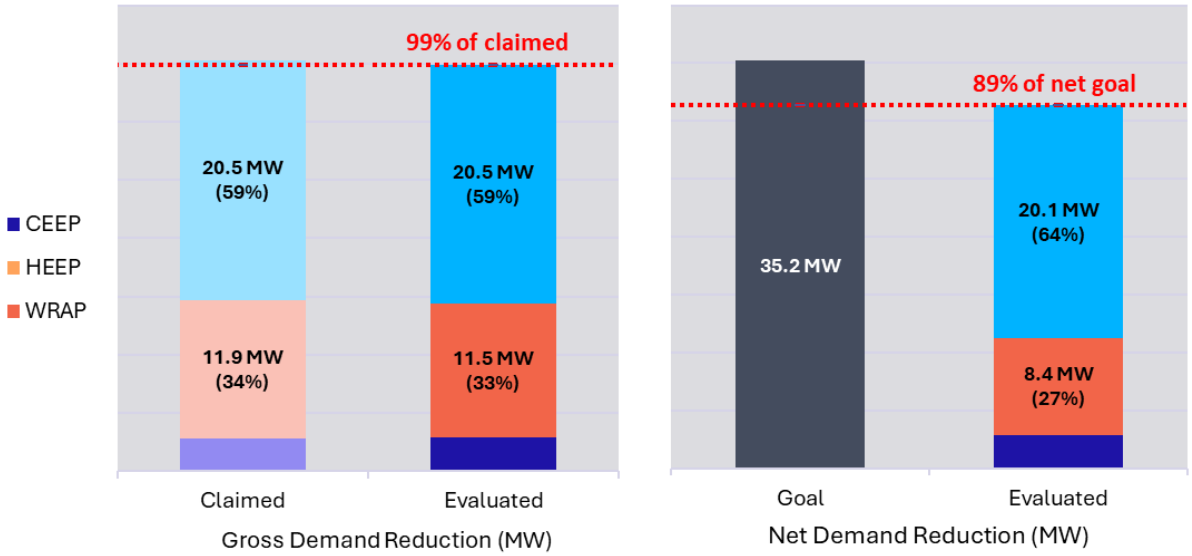

Table 2-4 shows the summary of budgeted and actual expenditures. OG&E spent $39,757,554 in PY2024, equivalent to 99.8% of the planned budget.

Table 2-4 Summary of Budgets and Actual Spend

Program	Budgeted Spend	Actual Spend	% Attained
HEEP	$12,223,482	$11,966,442	98%
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Planning	$100,000	$120,267	120%
Total	**$39,840,184**	**$39,757,554**	**100%**

Table 2-5 shows the results of the cost-effectiveness (CE) analysis. Four out of five CE tests show HEEP, WRAP, CEEP, and the overall portfolio as cost-effective, achieving an overall TRC of 2.87 with $88,002,361 in Total Resource Cost (TRC) net benefits. Note that the Ratepayer Impact test (RIM) is below 1.0, which is expected and typical.[2] The cost-effectiveness approach and assumptions are detailed in Appendix C.

Table 2-5 Cost-Effectiveness Ratios and TRC Net Benefits Summary

Program	TRC	PACT	RIM	PCT	SCT	TRC Net Benefits
HEEP	2.97	3.09	0.55	7.91	6.10	$26,833,777
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R&D	-	-	-	-	-	-$2,682,593
Planning	-	-	-	-	-	-$120,267
Overall	**2.87**	**3.67**	**0.49**	**9.01**	**5.33**	**$88,028,590**

PY2024 Portfolio Changes and Enhancements

During PY2024, OG&E incorporated the following changes and enhancements to the portfolio:

- Residential Solutions (RSOL) and Weatherization Residential Assistance Program (WRAP): OG&E made progress towards implementing a new enrollment process that will funnel customers to RSOL or WRAP based on their eligibility criteria. This will reduce the overlap between the two channels and customer confusion.
- WRAP: The Repair-to-Qualify (RTQ) budget was cut in PY2024, following success in PY2023, and only 35% of eligible customers were able to get services through the program.

During PY2024, implementers incorporated the following changes and enhancements to the portfolio:

- Residential HVAC (Res HVAC) and Commercial and Industrial HVAC Replacement and Tune-Up (C&I HVAC): CLEAResult eliminated the backlog of rural customers waiting for services by hiring new residential technicians to support rural customers. This has helped the channel reach previously underserved customers.
- Small Business Direct Install (SBDI): CLEAResult introduced a desktop application for Trade Allies (TAs) to enter customer assessments, which has been very well received.
- Continuous Energy Improvement (CEI): CLEAResult offered sector-specific events in PY2024 that were very successful.
- C&I HVAC: CLEAResult started a pilot program to target small businesses.

Net-to-Gross Analysis

AEG's approach to NTG analysis includes updating the NTG ratio for each channel once per cycle on a prospective basis (i.e., to be applied to the PY2025 portfolio evaluation). We determined the schedule for NTG updates during our initial evaluation planning sessions with the OG&E and implementation teams early in PY2024. We discuss program/channel-specific surveys in respective program/channel sections.

The PY2024 NTG analysis consisted of the following updates:

[2] Retail rates, the costs that customers pay to consume energy, and which inform utility revenues, typically exceed the avoided costs of capacity and of the generation, transmission, and distribution of energy. When an energy efficiency program achieves energy savings, the cost of lost revenues may exceed the benefits of avoided energy costs, resulting in a RIM test score lower than 1.0. This is typical of EE programming. A rare example of an EE program achieving a RIM test score greater than 1.0 would be a demand response program for which the avoided costs of capacity (and energy) exceed the administration and implementation costs of the program (and its lost revenues).

- We used a survey-based approach for two channels: PE-NHC and C&I HVAC. AEG made considerable efforts to remain consistent with previous survey-based approaches to establish appropriate comparisons to prior NTG ratios.
- For the remaining programs and channels, we used updated NTG ratios from the PY2022 and PY2023 evaluations or stipulated NTG ratios from the PY2021 evaluation.

The overall NTG analysis yielded the following key findings:

- The survey-based approach PE-NHC and C&I HVAC produced higher or comparable NTG adjustment ratios relative to PY2021. As mentioned above, we used methods consistent with previous evaluations, and channel operations or delivery methods did not substantially change in PY2024.

Table 2-6 and Table 2-7 summarize each channel's and program's NTG ratios. In prior years, AEG conducted studies to assess NTG ratios for forthcoming program years (e.g., channel-specific results assessed in PY2022 would be applied to PY2023 savings). However, in PY2024, AEG conducted studies to update NTG ratios for PE-NHC and C&I HVAC to address issues with the methodology used in previous studies. As agreed upon by OG&E and AEG, these results were applied immediately to PY2024 performance. The results of these studies can be reviewed in the respective *PE-NHC – Impact Evaluation* and *C&I HVAC – Impact Evaluation* sections. WRAP, CEI, and SBDI have stipulated NTG ratios of 100%.

Table 2-6 HEEP NTG Summary

Channel	kWh	kW
RSOL	94%	94%
LivingWise	100%	100%
Res HVAC	79%	79%
PE-NHC	84%	84%
CPS	61%	63%
Overall	**71%**	**73%**

Table 2-7 CEEP NTG Summary

Channel	kWh	kW
CIS	99%	99%
SAGE	99%	99%
SBDI	100%	100%
Midstream	98%	98%
CEI	100%	100%
C&I HVAC	90%	90%
Overall	**99%**	**98%**

A full description of the NTG methodology can be found in Appendix D.

3 | HOME ENERGY EFFICIENCY PROGRAM (HEEP)

The Home Energy Efficiency Program (HEEP) is a multipronged program that encourages Oklahoma residential customers to reduce energy consumption by implementing energy-efficient upgrades in their homes. Multiple channel offerings target homeowners with participation options designed to improve customer engagement and measure adoption (e.g., LED lighting). The program consists of the following five delivery channels:

- Residential Solutions (RSOL)
- LivingWise® Schools Outreach (LivingWise)
- Residential HVAC Replacement and Tune-Up (Res HVAC)
- Consumer Products (CPS)
- Positive Energy – New Home Construction (PE-NHC)

We provide detailed descriptions of each channel in each corresponding sub-section.

HEEP – Key Evaluation Findings

The **impact evaluation** established HEEP gross evaluated energy savings of 52,264,463kWh and gross evaluated demand savings of 11,453kW, which amount to realization rates of 99% and 96%, respectively. HEEP achieved 105% of net energy savings goals and 135% of net demand reduction goals.

Table 3-1 provides a summary of the HEEP impact evaluation findings.

Table 3-1 HEEP Impact Evaluation Summary

Savings	Gross Savings			Net Savings				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
Energy (kWh)	52,579,425	52,264,463	99%	35,440,026	37,140,723	105%	71%	470,088,333
Demand (kW)	11,879.4	11,453.4	96%	6,238.0	8,402.0	135%	73%	n/a

Table 3-2 and Table 3-3 provide the corresponding channel-level summaries of the evaluated energy and demand savings.

Table 3-2 HEEP Energy Savings Summary by Channel

Channel	Gross Energy Savings (kWh)			Net Energy Savings (kWh)		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
RSOL	3,085,211	3,134,368	102%	2,946,306	94%	43,454,746
LivingWise	2,704,130	2,648,123	98%	2,648,123	100%	26,202,935
Res HVAC	14,087,977	14,055,338	100%	11,103,717	79%	135,084,731
PE-NHC	2,879,525	2,879,698	100%	2,418,946	84%	40,516,593
CPS	29,822,582	29,546,936	99%	18,023,631	61%	224,829,329
Total HEEP	**52,579,425**	**52,264,463**	**99%**	**37,140,723**	**71%**	**470,088,333**

Table 3-3 HEEP Demand Reduction Summary by Channel

Channel	Gross Demand Reduction (kW)			Net Demand Reduction (kW)	
	Claimed	Evaluated	RR	Evaluated	NTG
RSOL	1,031.5	1,050.3	102%	987.3	94%
LivingWise	310.6	307.6	99%	307.6	100%
Res HVAC	3,388.7	3,382.7	100%	2,672.3	79%
PE-NHC	979.6	979.6	100%	822.8	84%
CPS	6,169.0	5,733.3	93%	3,612.0	63%
Total HEEP	**11,879.4**	**11,453.4**	**96%**	**8,402.0**	**73%**

Figure 3-1 and Figure 3-2 show the HEEP channel distribution of energy savings and demand reductions. Notably, CPS and Res HVAC contributed the most energy savings and demand reductions.

Figure 3-1 HEEP Energy Savings Summary

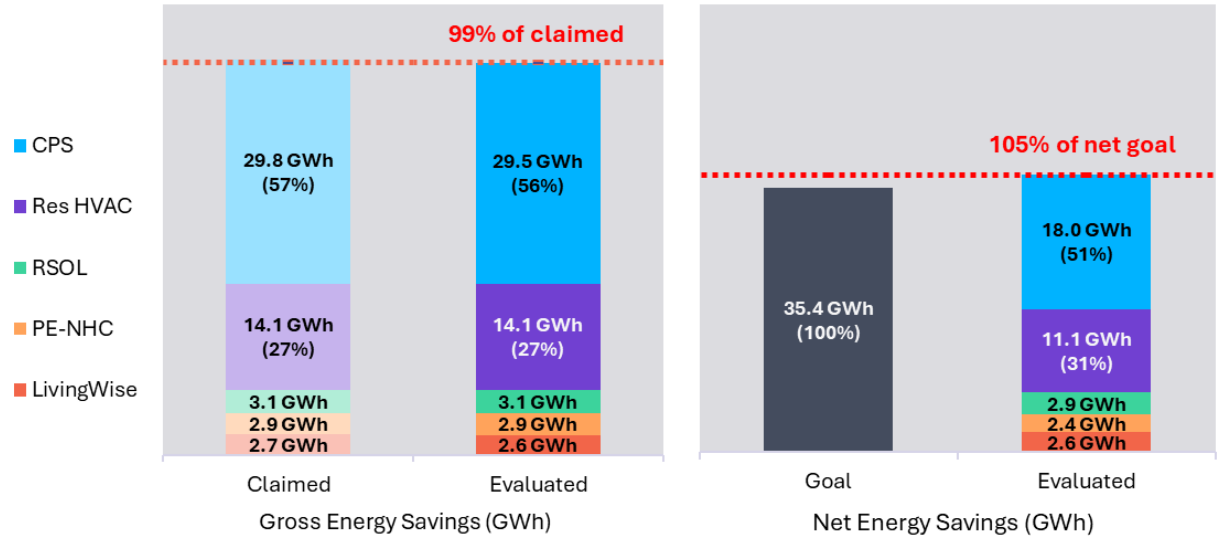
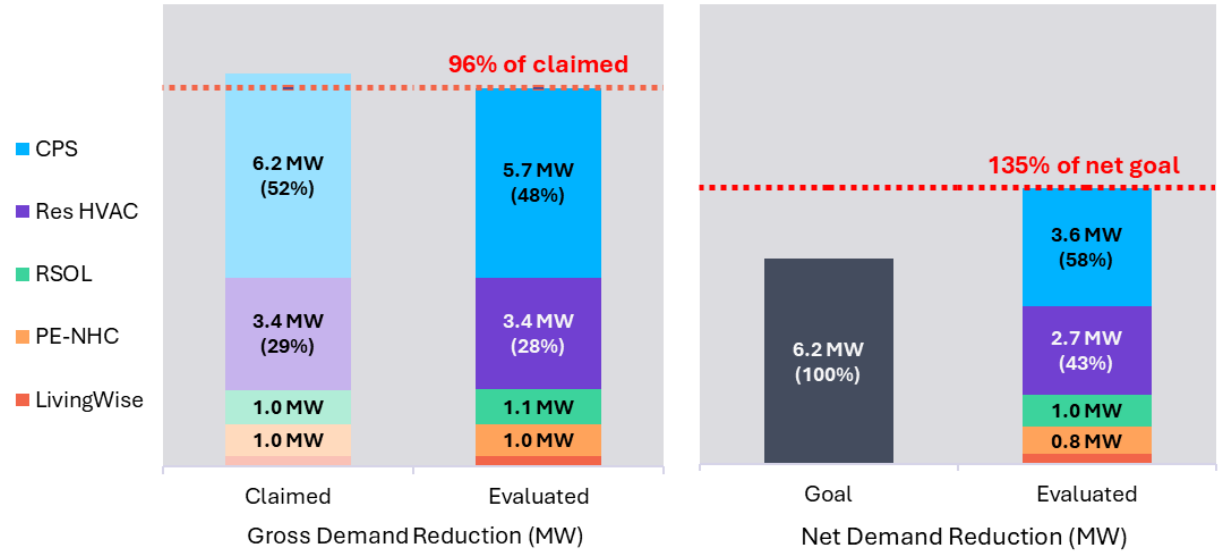


Figure 3-2 HEEP Demand Reduction Summary



HEEP – Evaluation Methods

Impact Evaluation Approach. Table 3-4 summarizes the impact evaluation activities that AEG conducted to evaluate savings.[3]

Table 3-4 HEEP Impact Evaluation Activities

Channel	Savings Replication	Desk Review	Savings Verification	NTG Ratio Update	Benefit-Cost Analysis
RSOL	✓	✓	✓		✓
LivingWise	✓		✓		✓
Res HVAC	✓	✓	✓		✓
CPS	✓				✓
PE-NHC		✓		✓	✓

All claimed savings were replicated using the Arkansas Technical Reference Manual (AR TRM) unless noted otherwise. We administered an online survey (emailed to participants) for the RSOL and Res HVAC channels to determine in-service rates (ISRs). To estimate net evaluated savings, we used the results from the PY2023 NTG analysis for the RSOL and Res HVAC channels and PY2021 or PY2022 NTG results for the remaining channels. To estimate an NTG ratio for PE-NHC for PY2025, we interviewed participating new home builders.

AEG used a stratified random sample for desk reviews. We stratified the HEEP participation by channel and additional criteria as appropriate. We also defined a unique sample frame unit for each channel, typically one account number or one household.[4]

Process Evaluation Approach. Table 3-5

[3] We include detailed descriptions of each impact evaluation activity in Appendix A.
[4] We discuss the stratified sampling approach in each corresponding subsection and include detailed descriptions of the sample design in Appendix B.

Channel	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/ Interview	Cycle Time Analysis
RSOL	✓	✓			✓
LivingWise	✓	✓			
Res HVAC	✓	✓	✓		
CPS	✓	✓			
PE-NHC	✓	✓			

summarizes the process evaluation activities conducted to determine evaluated savings.[5]

Table 3-5 HEEP Process Evaluation Activities

Channel	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/ Interview[6]	Cycle Time Analysis
RSOL	✓	✓			✓
LivingWise	✓	✓			
Res HVAC	✓	✓	✓		
CPS	✓	✓			
PE-NHC	✓	✓			

AEG designed the process evaluation to examine both internal program processes and participant response to the HEEP program. These process evaluation activities focused on understanding operations, assessing overall effectiveness, and identifying areas for improvement. We performed the following activities:

- AEG conducted **separate, comprehensive interviews with the OG&E program manager and appropriate channel implementer** to gather their impressions of the program/channel's implementation activities, performance, delivery issues, and opportunities for improvements.
- AEG conducted **Trade Ally (TA) interviews** for the Res HVAC channel.

Residential Solutions (RSOL)

The Residential Solutions (RSOL) channel promotes energy efficiency (EE) by having Energy Advisors (EAs) provide low-cost home assessments for participating residential customers. The EAs provide direct-install (DI) measures at no cost, community and educational outreach, and information about other inducements for home retrofits that OG&E offers for measures such as ENERGY STAR® windows and doors, attic insulation, and more. The inducements encourage participation by decreasing the upfront costs of assessments and energy-efficiency upgrades to the envelope and mechanical systems in customers' homes.

Participant Eligibility. RSOL is targeted at all OG&E's Oklahoma residential customers. Participants are assumed to be non-income-qualified customers, as income-qualified customers participated in WRAP.

[5] We include detailed descriptions of each process evaluation activity in Appendix A.

[6] Under a separate engagement in 2022, AEG conducted a market evaluation that included surveys with nonparticipants. For that reason, we did not conduct additional nonparticipant surveys. AEG will work with OG&E to identify if nonparticipant surveys are necessary for the PY2024 evaluation.

Key channel elements consist of:

- **Customer engagement.** Various customer intake channels are made available through this channel, including phone, email, and web.
- **Contractors or OG&E representatives.** These individuals are available to participants and potential participants to provide information on the benefits and costs of EE upgrades. They have the knowledge to discuss the potential options customers have and assist in defining the best path for them to take based on their individual needs.
- **Inducement application.** Customers complete the channel application and submit it to the channel implementer, CLEAResult, for installed eligible measures. CLEAResult conducts a quality assurance/quality control (QA/QC) review of all applications to ensure that all required information and documentation have been provided.
- **Inducement payment.** Trade Allies receive payment checks directly from the channel for approved applications of installed eligible equipment and measures. Customers may receive payment checks on a case-by-case basis if necessary and within the established channel guidelines.

RSOL – Key Evaluation Findings

The **impact evaluation** established RSOL evaluated gross energy savings of 3,134,368 kWh and evaluated gross demand savings of 1,050 kW, which amount to realization rates of 102% for each. Table 3-7 provides a summary of the RSOL impact evaluation findings.

Table 3-7 RSOL Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	3,085,211	3,134,368	102%	2,946,306	94%	43,454,746
Demand (kW)	1,031.5	1,050.3	102%	987.3	94%	n/a

The **impact evaluation** produced the following key findings:

- **Faucet aerators achieved dramatically higher savings in PY2024.** AEG used the Pennsylvania Technical Reference Manual (PA TRM) rather than the Arkansas (AR) TRM, as we recommended in the PY2023 evaluation report. The PA TRM's savings algorithm accounts for water use more accurately, providing a substantial boost in savings for those measures.
- **LEDs and advanced power strips achieved survey-based in-service rates (ISRs) of 95% and 86%, respectively.** AEG collected survey data for faucet aerators and showerheads but did not achieve enough responses.

Table 3-6 RSOL PY2024 Participation by Measure

Measure	No. of Homes	
	Multi-family	Single Family
Advanced Power Strips	0	986
Advanced Power Taps	1,798	0
Attic Insulation	0	470
ENERGY STAR Doors	0	44
ENERGY STAR Windows	0	336
Faucet Aerators	1,032	104
LEDs	1,398	853
Outlet Gaskets	350	1,071
Showerhead	859	72
Weather Stripping	367	501
Total Unique Homes	**2,121**	**2,206**

The **process evaluation** produced the following key findings:

- **OG&E is implementing a new enrollment process** that will funnel customers to RSOL or WRAP based on their eligibility criteria. This will reduce the overlap between the two channels and customer confusion.
- **The average number of days to receive a rebate is 16 days.** This is a large improvement over PY2023 (25 days).

RSOL – Recommendations

The **impact evaluation recommendations** are as follows:

- **Interpolate savings for attic insulation measure to give credit for R values between R-38 and R-49.** Currently, savings are rounded down to R-38 values, unnecessarily reducing claimed savings.
- **Calculate therms values for homes with gas heat installing weatherstripping measures.** The CLEAResult white paper used to calculate kWh and kW savings does not provide a method for calculating therm savings. Calculating therms will not affect achievements towards progress but will affect cost-effectiveness positively.

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

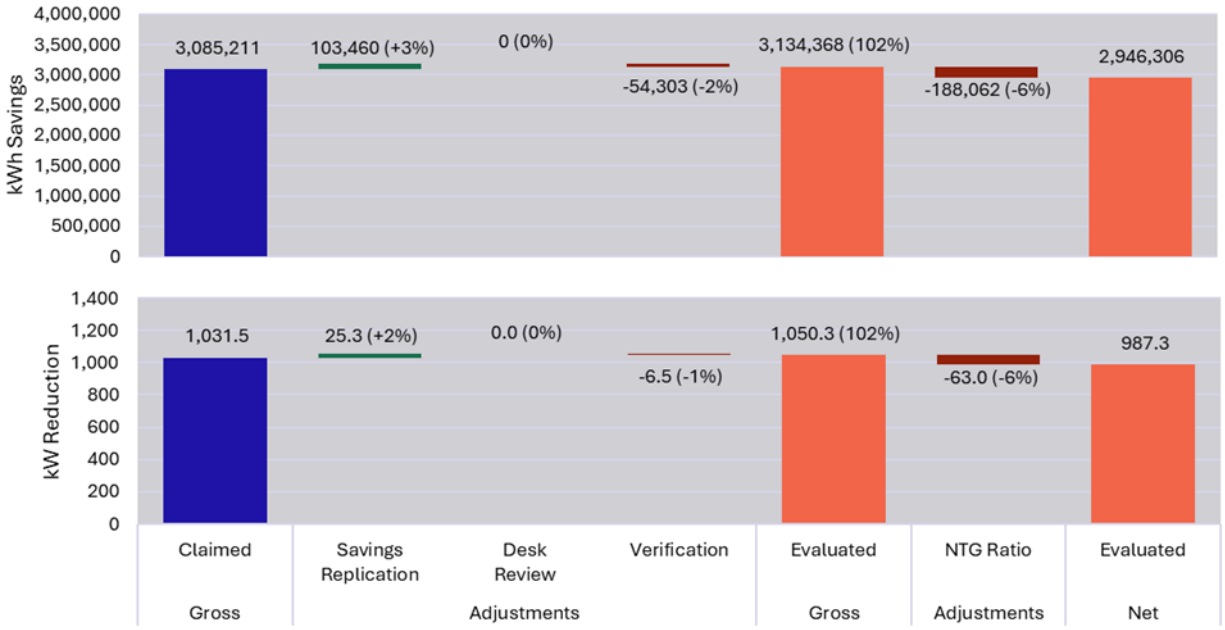
- **Take a whole-home approach** by bundling an air conditioner tune-up, smart thermostats, and air and duct sealing measures with other RSOL services in one visit.
- **Evaluate the new enrollment process** within the first six months of implementation to ensure participants are being correctly funneled into the correct program tract (RSOL or WRAP) based on their eligibility criteria.
- * **Include automated email responses** to let participants know their rebate applications have been received. Consider adding a tracking number so customers can see where they are in the queue and when they can expect to receive their rebate.

RSOL – Impact Evaluation

Evaluation Approach. As summarized in Table 3-4 (page 25), AEG conducted savings replication, desk reviews, and savings verification to evaluate savings. AEG used a stratified random sample for desk reviews. We defined the sample frame unit as one project and stratified the participant population by home type (i.e., single-family or multifamily).

Evaluation Adjustments. Figure 3-3 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 3-3 RSOL Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 103% for energy and 102% for demand relative to claimed savings. AEG made the following changes to claimed savings:
  - **Advanced power strips and advanced power taps.** Claimed kW did not correspond with the AR TRM. AEG used the AR TRM's deemed savings values for kW, which increased demand.
  - **Attic insulation.** Energy savings for projects with efficient R-values between R-38 and R-49 were rounded down to the deemed savings value for R-38. AEG credited these projects by linearly interpolating the AR TRM's deemed savings values, which increased savings.
  - **Faucet aerators.** AEG used the PA TRM rather than the AR TRM to replicate savings. As described in the PY2023 evaluation report, the AR TRM's savings algorithm for faucet aerators is flawed in how it accounts for water use in the home, which artificially decreased savings in prior program years. This change increased faucet aerator energy savings more than twofold.
- **Desk Review.** Desk reviews yielded realization rates of 100% for energy and 100% for demand relative to savings replication results. AEG did not identify any discrepancies between project documents and the program tracking database.
- **Savings Verification.** AEG administered online surveys participants to verify ISRs and other relevant household and project details, which produced realization rates of 98% for energy and 99% for demand relative to desk review results.
  - Using self-reported information from respondents, AEG estimated ISRs of 86% for advanced power strips and 95% for LEDs. These were lower than TRM-deemed ISRs of 100% and 97%, respectively, and thus decreased savings for these measures overall. We also confirmed end uses for both measures, which augmented savings on a per-unit basis. Among surveyed participants, advanced power strip realization rates (relative to desk review results) were 84% for both energy and demand, and LED realization rates were 98% for both energy and demand.
  - AEG asked respondents about their faucet aerators and showerheads but did not collect enough responses to achieve statistically significant ISRs. These ISRs are shown in Table 3-12 (page 31) for posterity but were not applied as part of savings verification activities.
  - AEG also collected survey responses regarding ENERGY STAR doors and windows for anecdotal purposes. We did not estimate ISRs or apply them to these measures.
- **Net-to-Gross.** AEG applied the updated NTG ratio (94%) from the PY2023 evaluation.

Stratum-Level Findings. Table 3-8 and Table 3-9 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 0.6% (kWh) and 0.2% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 3-8 RSOL Energy Savings Summary by Stratum

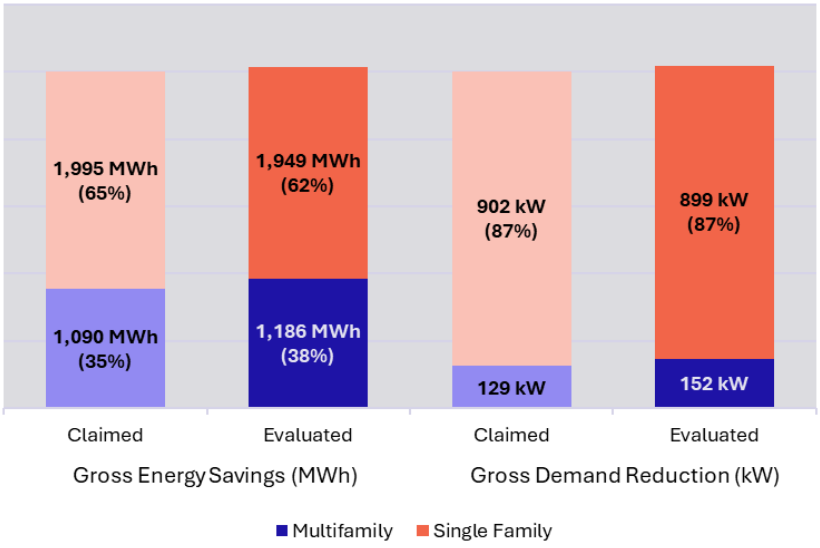
Stratum	Projects	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Multifamily	2,121	12	1,089,835	1,185,719	109%	0	0.0%
Single Family	2,206	12	1,995,376	1,948,649	98%	18,029	0.9%
Total	**4,327**	**24**	**3,085,211**	**3,134,368**	**102%**	**18,029**	**0.6%**

Table 3-9 RSOL Demand Reduction by Stratum

Stratum	Projects	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Multifamily	2,121	12	129.4	151.6	117%	0.0	0.0%
Single Family	2,206	12	902.1	898.8	100%	2.2	0.2%
Total	**4,327**	**24**	**1,031.5**	**1,050.3**	**102%**	**2.2**	**0.2%**

Figure 3-4 shows energy savings and demand reductions distributed by stratum. Single-family homes contributed most evaluated energy savings (62%) and nearly all evaluated demand reductions (87%).

Figure 3-4 RSOL Claimed and Evaluated Savings by Stratum



Demand reductions are skewed toward single-family homes because multifamily homes are not eligible for attic insulation, doors, and windows. The largest contributors to demand reductions regardless of home type are attic insulation and windows.

Measure-Level Findings. Table 3-10 and Table 3-11 show measure-level realization rates. Advanced power strips/taps, attic insulation, and LEDs comprise 73% of claimed energy savings. Attic insulation drives 62% of the claimed demand reductions, followed by ENERGY STAR windows, which account for 12%.

Table 3-10 RSOL Multifamily Savings by Measure

Measure	No. of Projects	Gross Energy Savings (kWh)			Gross Demand Reduction (kW)		
		Claimed	Evaluated	RR	Claimed	Evaluated	RR
Advanced Power Strips	1,798	453,540	453,563	100%	47.7	54.3	114%
Faucet Aerators	1,032	90,617	186,478	206%	9.4	25.0	265%
LEDs	1,398	169,908	169,908	100%	27.5	27.5	100%
Outlet Gaskets	350	17,637	17,637	100%	4.2	4.2	100%
Showerheads	859	333,729	333,729	100%	34.7	34.7	100%
Weather Stripping	367	24,403	24,403	100%	5.8	5.8	100%
Total	**2,121**	**1,089,835**	**1,185,719**	**109%**	**129.4**	**151.6**	**117%**

Table 3-11 RSOL Single-Family Savings by Measure

Measure	No. of Projects	Gross Energy Savings (kWh)			Gross Demand Reduction (kW)		
		Claimed	Evaluated	RR	Claimed	Evaluated	RR
Advanced Power Strips	986	303,264	254,832	84%	35.2	29.7	84%
Attic Insulation	470	1,156,664	1,159,918	100%	647.5	649.6	100%
ENERGY STAR Doors	44	7,913	7,913	100%	6.5	6.5	100%
ENERGY STAR Windows	336	149,335	149,335	100%	122.4	122.4	100%
Faucet Aerators	104	9,884	14,034	142%	1.0	1.9	183%
LEDs	853	242,768	236,983	98%	30.4	29.7	98%
Outlet Gaskets	1,071	80,207	80,207	100%	46.9	46.9	100%
Showerheads	72	28,412	28,497	100%	3.0	3.0	100%
Weather Stripping	501	16,928	16,928	100%	9.2	9.2	100%
Total	**2,206**	**1,995,376**	**1,948,649**	**98%**	**902.1**	**898.8**	**100%**

Table 3-12 shows ISRs as verified by results from AEG's online participant survey. As noted above, AEG only used ISRs for savings verification purposes for advanced power strips and LEDs. ISRs for faucet aerators and showerheads were not used as part of the verification and are provided for reference only.

Table 3-12 RSOL Survey-Verified ISRs

Measure	TRM ISR	Verified ISR	Survey Completes (n)
Advanced Power Strips	100% [a]	86%	198
Bathroom Faucet Aerators	100% [a]	92% [b]	8
Kitchen Faucet Aerators	100% [a]	89% [b]	9
LEDs	97%	95%	167
Showerheads	100% [a]	71% [b]	6

[a] Deemed by AR TRM as 100% because it is a direct-install measure.
[b] Not used for verified savings because of low response count.

Table 3-13 shows measure-level net lifetime energy savings, which are calculated using estimated useful life (EUL) estimates from the AR TRM. Attic Insulation contributed half of all net lifetime energy savings.

Table 3-13 RSOL Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Advanced Power Strips	10.0	2,395,425
Advanced Power Taps	10.0	4,263,497
Attic Insulation	20.0	21,806,461
ENERGY STAR Doors	20.0	148,773
ENERGY STAR Windows	20.0	2,807,507
Faucet Aerators	10.0	1,884,815
LEDs	12.5	4,780,966
Outlet Gaskets	15.0	1,379,597
Showerheads	10.0	3,404,928
Weather Stripping	15.0	582,777
Total	**14.7**	**43,454,746**

RSOL – Process Evaluation

Evaluation Approach. As summarized in Table 3-5 (page 26), AEG interviewed OG&E and CLEAResult program managers and conducted a cycle time analysis.

Channel Performance. Table 3-14 shows how RSOL performance changed from PY2023 to PY2024. Claimed energy savings decreased by less than 1% and demand reduction decreased by 4%. RSOL makes a small contribution to HEEP overall, representing 6% of energy savings and 9% of demand reduction.

Table 3-14 RSOL Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Difference
	Claimed	Share of HEEP	Claimed	Share of HEEP	PY2023 v. PY2024
Energy (kWh)	3,109,882	5%	3,085,211	6%	-1%
Demand (kW)	1,080.4	10%	1,031.5	9%	-4%

Channel Operations. To participate in RSOL, single-family customers complete a home review either online using OG&E's HEETracker or through CLEAResult's call center, after which the customer is offered a free in-home assessment by an EA. For multifamily customers, CLEAResult solicits property owners to complete the testing and install the measures in all units in the building.

EAs install LEDs, advanced power strips, weatherstripping, outlet gaskets, faucet aerators, and showerheads at no cost to participants. Each assessment includes blower door and thermal imaging tests as of PY2023. EAs also provide EE education and information about other incentives that OG&E offers for measures such as ENERGY STAR windows and doors, attic insulation, and more.

CLEAResult would like to evolve the channel into a whole home approach that would include an AC tune-up, smart thermostats, and air and duct sealing measures in one visit.

RSOL Customer Participation Process

Single Family

- Customers contact OG&E call center or participate in a virtual audit.
- EA conducts no-cost in-home assessment.
- EA conducts a blower door test and infrared camera imaging for homes built before 2016.
- EA installs no-cost measures and provides EE education and information about other OG&E inducements.

Multifamily

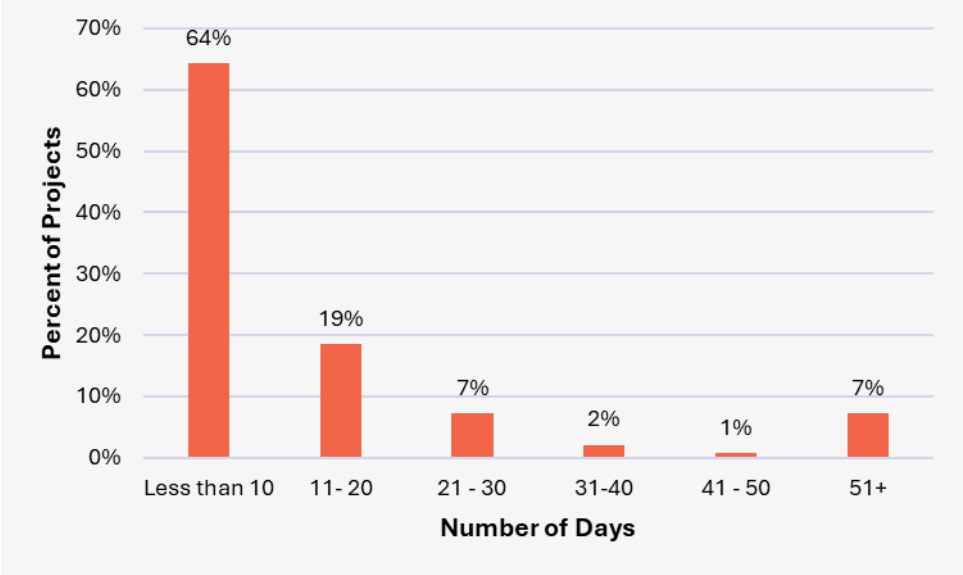
- CLEAResult solicits property owners.
- EA installs no-cost measures in all units.
- EA installs additional no-cost weatherization measures as needed.

Customers have expressed confusion because both RSOL and WRAP provide similar services. Some customers sign up for RSOL and are disappointed when they don't get the full weatherization services available from WRAP because they do not meet the qualification requirements. OG&E has taken steps to

improve this process in the next cycle. Customers will be assigned to RSOL or WRAP based on the information they provide when they go online to enroll for services.

Cycle Time Analysis. Figure 3-5 shows the distribution of days from installation to payment for 14,040 projects with valid project dates in the database. Ninety percent of all payments were received within 30 days of installation, with an average of 16 days. This is an improvement compared to PY2023 when the average payment was received in 25 days.

Figure 3-5 RSOL Number of Days from Installation to Payment



LivingWise® Schools Outreach (LivingWise)

This channel consists of direct outreach through partnerships with local schools. The implementer, AM Conservation, recruits 5th-grade teachers to sign up and participate on the LivingWise website. The channel is provided at no cost to the schools, teachers, parents, or students. The participant process is described as follows:

- Energy-saving kits and educational materials are provided to 5th-grade students explaining how they can improve EE at home.
- Teachers work directly with the program team to use the teaching aids and distribute the DI kits to their students.
- Students take the kits home and install the measures with the assistance of their parents while completing the accompanying educational materials.
- After completing the curriculum, the students receive a Schools Outreach wristband and a certificate of achievement for participating in the channel.
- The students also receive a Home Energy Worksheet (HEW) to fill out at home and return to their teacher. Teachers receive the completed survey responses and submit them to the channel implementer.

Each kit contained the following measures:

- 9W LEDs (2)
- Tier 1 smart strip
- Low-flow bathroom faucet aerator
- Low-flow kitchen faucet aerator
- Low-flow showerhead

- Water heater setback card (behavioral recommendation)

LivingWise – Key Evaluation Findings

The **impact evaluation** established LivingWise evaluated gross energy savings of 2,648,123 kWh and evaluated gross demand savings of 308kW, which amount to realization rates of 98% and 99%, respectively. Table 3-15 provides a summary of the LivingWise impact evaluation findings.

Table 3-15 LivingWise Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	2,704,130	2,648,123	98%	2,648,123	100%	26,202,935
Demand (kW)	310.6	307.6	99%	307.6	100%	n/a

The **impact evaluation** produced the following key findings:

- **AEG found higher evaluated savings than claimed.** Using the PA TRM instead of the AR TRM for faucet aerators (for which the AR TRM algorithm is flawed) substantially increased savings for those measures and the channel overall.
- **Homes with school-aged children tend to have more occupants** than the average home (as deemed by the AR TRM), thereby increasing savings for water-saving measures.
- **Claimed savings include teacher kits.** Typically, teacher kit savings are not claimed since most teachers are repeat participants. AEG used a conservative approach and excluded teacher kits from evaluated savings.

The **process evaluation** produced the following key findings:

- **AM Conservation has improved their marketing to address teacher recruitment and retention.** Initial indications are that this strategy has been very successful.
- **LivingWise continues to receive positive feedback** from students, teachers and parents. Student indicators have improved from PY2023 including the proportion who say they like the program and the proportion who report that their families have changed the way they use energy.
- **AM Conservation would like to partner with OG&E's marketing team**. Both teams are spending considerable amounts of effort on schools in OG&E's service territory.

LivingWise – Recommendations

The **impact evaluation** recommendations are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * **Account for repeat participation among teachers or exclude teacher kits from claimed savings all together.** For example, a unique teacher ISR would account for teachers who participate year over year but may not need or install measures after their first year in the program.
- * **Augment HEW survey questions to improve data collection and energy savings verification.**
    - Provide fill-in-the-blank options rather than multiple-choice for key questions such as number of occupants per home.
    - Ask respondents for the number of bathrooms and showers in their home and where they installed their LEDs (inside or outside).
    - Add a question that determines the initial temperature of the water heater prior to the setback, either as fill-in-the-blank or multiple-choice. A multiple-choice example:
        - 121° to 124° Fahrenheit
        - 125°F to 129°F
        - 130°F to 134°F
        - 135°F and above

The **process evaluation** recommendations are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

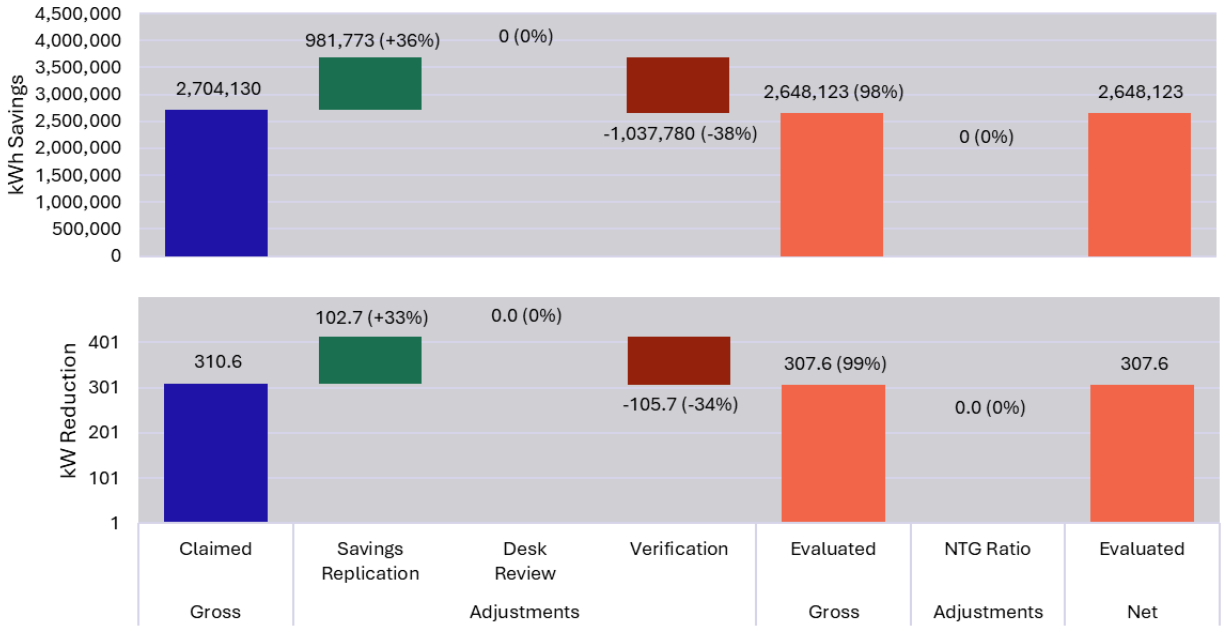
- * **Consider adding AM Conservation's high school program, FutureWise**. The OG&E program manager feels there is a missed opportunity among high school students, and AM Conservation offers a high school curriculum.
- * **Reward students who share the kit/activities with their families**. Include stickers or other low-cost incentives for students who install various components of the kit or perform activities at home with their families.
- **Send OG&E staff as guest speakers to schools**. This has been requested by participating teachers and would help students understand how their home's energy use affects the grid.
- **The OG&E marketing team should partner with AM Conservation**. Both companies are making connections in schools, and AM Conservation believes there is potential for synergies and cross-promotion to ensure they promote all relevant resources to teachers.

LivingWise – Impact Evaluation

Evaluation Approach. As summarized in Table 3-4 (page 25), AEG conducted savings replication and savings verification to evaluate savings. AEG used HEWs collected by AM Conservation from LivingWise participants rather than administering a separate participant survey to verify savings.

Evaluation Adjustments. Figure 3-6 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 3-6 LivingWise Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 136% for energy and 133% for demand relative to claimed savings. AEG used the AR TRM for most measures. AEG made the following changes to claimed savings:
  - **Faucet aerators.** AEG used the PA TRM rather than the AR TRM to replicate savings. As described in the PY2023 evaluation report, the AR TRM's savings algorithm for faucet aerators is flawed in how it accounts for water use in the home, which artificially decreased savings in prior program years. This change increased faucet aerator energy savings more than twofold.

  - **LEDs.** Claimed savings did not use the EISA backstop of 45 lumens per watt from the efficient-case lamp. Energy savings for LEDs fell by more than two-thirds after this adjustment.
- **Savings Verification.** AEG analyzed and applied results from HEW survey data collected by the implementer, which yielded realization rates of 72% for energy and 74% for demand relative to savings replication efforts. We updated inputs for ISRs, electric water heater saturation, power strip end-use, number of household occupants, and the numbers of full and half bathrooms.

Stratum-Level Findings. Table 3-16 and Table 3-17 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 5.2% (kWh) and 5.6% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 3-16 LivingWise Energy Savings Summary by Stratum

Stratum	Kits	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
LivingWise	13,718	1,728	2,704,130	2,648,123	98%	137,548	5.2%
Total	**13,718**	**1,728**	**2,704,130**	**2,648,123**	**98%**	**137,548**	**5.2%**

Table 3-17 LivingWise Demand Reduction Summary by Stratum

Stratum	Kits	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
LivingWise	13,718	1,728	310.6	307.6	99%	17.3	5.6%
Total	**13,718**	**1,728**	**310.6**	**307.6**	**99%**	**17.3**	**5.6%**

Measure-Level Findings. Table 3-18 shows each iteration of stratum-evaluated per-unit electric energy, electric demand, gas energy, gas demand, and water savings.

Table 3-18 LivingWise Per-Unit Savings

Measure	Qty per Kit	Evaluated Savings Per Unit	
		kWh	kW
Advanced Power Strip	1	81	0.009
Bathroom Faucet Aerator	1	9	0.001
Kitchen Faucet Aerator	1	35	0.005
LEDs	2	9	0.001
Showerhead	1	53	0.005
Water Heater Setback	1	5	0.000
Total per Kit	**7**	**202**	**0.024**

Table 3-19 shows measure ISRs per HEW results. All measures achieved lower ISRs compared to PY2023.

Table 3-19 LivingWise Measure ISRs

Measure	ISR
Advanced Power Strip	46%
Bathroom Faucet Aerator	20%
Kitchen Faucet Aerator	20%
LEDs	50%
Showerhead	26%
Water Heater Setback	11%

Table 3-20 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Advanced power strips comprise nearly half of net lifetime savings.

Table 3-20 LivingWise Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Advanced Power Strip	10.0	11,141,816
Bathroom Faucet Aerator	10.0	1,256,179
Kitchen Faucet Aerator	10.0	4,826,957
LEDs	12.5	1,575,980
Showerhead	10.0	7,253,629
Water Heater Setback	2.0	148,374
Total	**9.9**	**26,202,935**

LivingWise – Process Evaluation

Evaluation Approach. As summarized in Table 3-5 (page 26) AEG interviewed OG&E and CLEAResult program managers. Although we did not administer our own online participant survey, we analyzed data from participant surveys conducted by AM Conservation, the program implementer.

Channel Performance. Table 3-21 shows how LivingWise performance changed from PY2023 to PY2024. Claimed energy savings increased by 51% and demand reduction increased by 56%. LivingWise makes the smallest contribution to HEEP overall, representing 5% of energy savings and 3% of demand reduction.

Table 3-21 LivingWise Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of HEEP	Claimed	Share of HEEP	PY2023 v. PY2024
Energy (kWh)	1,788,489	3%	2,704,130	5%	+51%
Demand (kW)	199.1	2%	310.6	3%	+56%

Channel Operations. LivingWise consists of direct outreach through partnerships with local schools. AM Conservation recruits 5th-grade teachers to sign up and participate for free on the LivingWise website. The teachers can then distribute kits in drawstring bags to the students, who can install the kit's EE measures (LEDs, a power strip, a bathroom faucet aerator, a kitchen faucet aerator, a low-flow showerhead, and a water heater setback card) in their homes with the help of a parent or guardian. The students also receive a HEW to complete at home and return it to their teachers, who submit them to AM Conservation. AM Conservation offers electronic gift cards to teachers who return at least 80% of their students' HEWs.

Overcoming Barriers to Participation. Teacher turnover at the schools and extremely busy teachers continue to be barriers to increased participation. To address this, AM Conservation substantially changed their marketing efforts as of fall 2023. Instead of sending direct emails, it switched to using HubSpot as a fully integrated marketing platform. HubSpot allows AM Conservation staff to design more polished emails and align the branding with OG&E. They can track open and click-through rates, and, as a result, they can test different email subject lines to increase effectiveness. At the same time, it began using HubSpot, AM Conservation started sending physical mail to teachers. In fall 2024, a couple of weeks before the school year started, AM Conservation sent mail to teachers' classrooms detailing state education standards and everything the teachers should expect to receive from the program once it starts. The mailers have been effective as they are the first things teachers see when they return to school.

AM Conservation started hosting webinars to support teachers and help them understand the program. One was an informational unboxing of the kit to which both nonparticipants and participants were invited. Another went more in-depth on strategies for covering various topics and was only for participants. Both webinars were effective forums for collecting feedback.

In June 2024, AM Conservation hosted a booth at the Oklahoma Science Teachers Conference in Tulsa, where it displayed kits from the program. More than 100 teachers were present. AM Conservation received

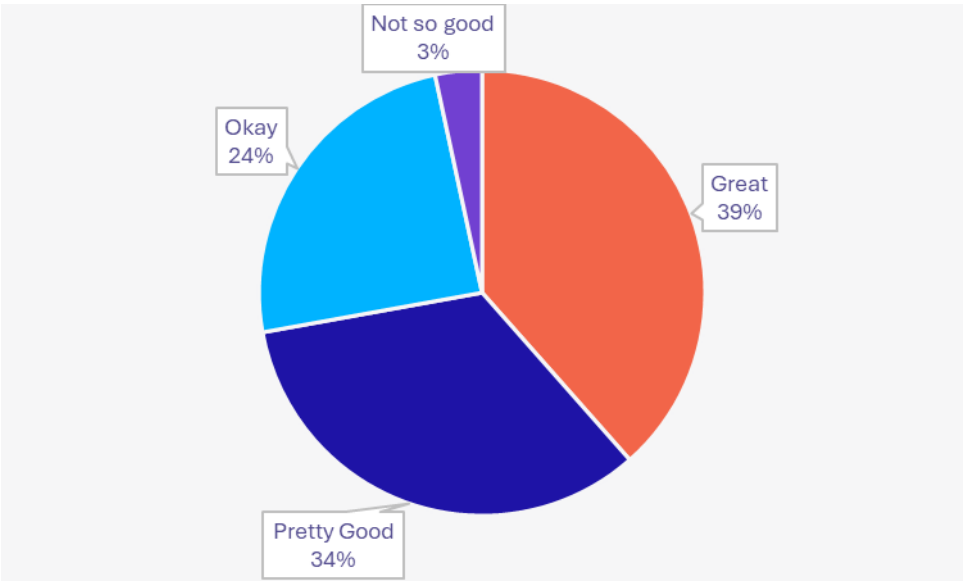
feedback, particularly from non-participating teachers, about what they would like to see from the program that would encourage their participation. One key takeaway for AM Conservation staff was that although the program works well with 5th-grade students, it may be better-suited for 4th-graders. Similarly, they learned that 7th-graders may be better subjects for the middle school version of the program.

Channel Satisfaction. OG&E and AM Conservation have built a very strong relationship over time. As a result, LivingWise functions extremely well.

AM Conservation evaluated surveys from 22 teachers, 27 parents, and 1,710 students. According to the results, LivingWise is well-received by parents, teachers, and students. All but one parent who completed the survey gave very favorable responses about LivingWise, and that parent wanted to see the program continue. All teachers who responded to the survey would recommend it to a colleague, and all but one would participate again.

Almost all teachers agreed (27%) or strongly agreed (68%) that the products in the kit were easy for students to use. Figure 3-7 shows that most students rated LivingWise as great or pretty good.

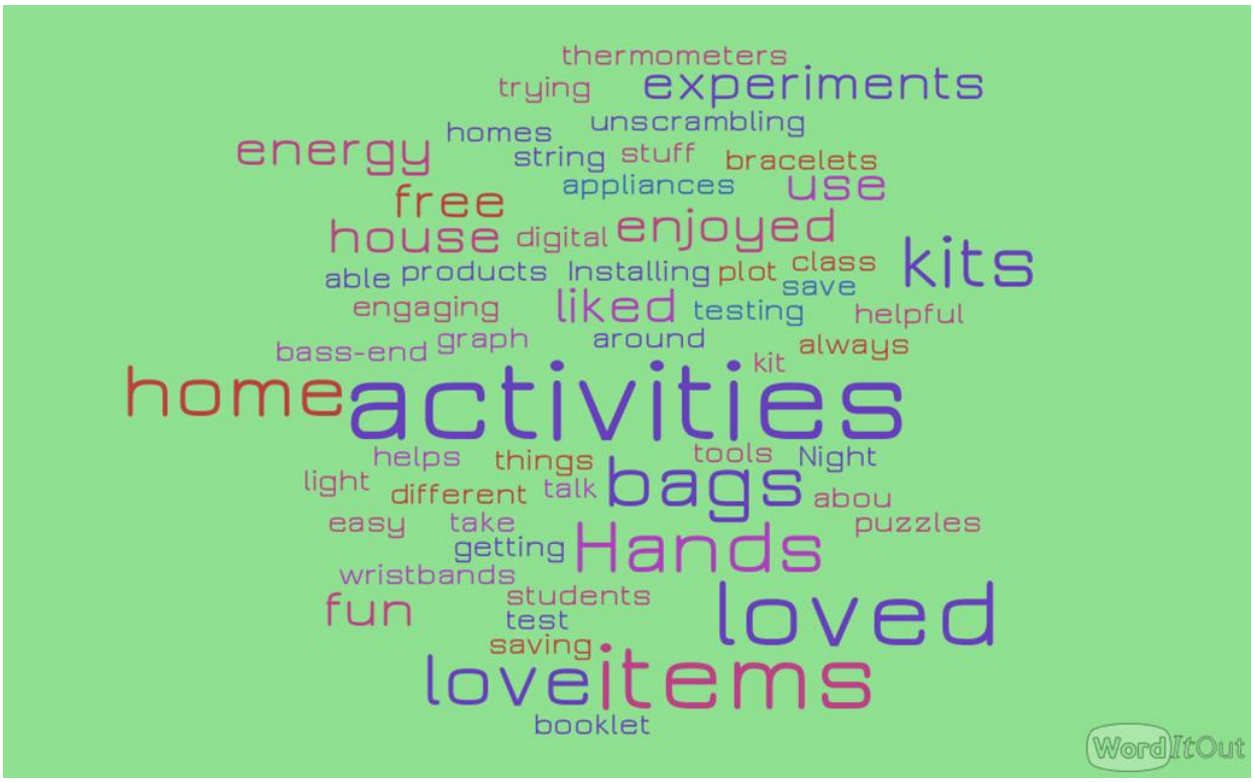
Figure 3-7 LivingWise Student Rating of LivingWise



Slightly more than half of students worked with their families on the program compared to slightly less than half last year. A slightly smaller percentage of students (49%) said their families changed how they used energy in their homes. These represent improvements over PY2023, when about a third of students said they worked with their families on the program and their families changed how they used energy.

The survey asked teachers what they felt the students liked best about LivingWise. Their responses are shown in the word cloud in Figure 3-8. The larger the word, the more times it was mentioned.

Figure 3-8 LivingWise Teachers' Responses about What Students Liked Best About the Program



Recommendations for Improvement. When asked what they would change about LivingWise, teachers had two main suggestions: start the program earlier in the year and have someone from OG&E come and speak to the class. Otherwise, they really liked the program as is.

AM Conservation would like to partner with OG&E's marketing team, which uses its education budget to connect with non-resource-tied programs in schools. Because both parties interface with schools, AM Conservation thinks there could be synergies and cross-promotion to ensure they promote the relevant resources to teachers. AM Conservation would also like to partner with schools through the Continuous Energy Improvement (CEI) channel in the Commercial Energy Efficiency Program (CEEP).

AM Conservation continues to pursue a high school LivingWise program. They don't want to distribute the same measures for high school students as they do for elementary school students, as they expect they may achieve lower ISRs because measures could be duplicated for families with multiple school-age children or students who participate first in elementary school and again in high school. They proposed a different measure mix that is a little more difficult to install: weatherstripping, door sweeps, and outlet gaskets. They're also interested in testing Wi-Fi-controlled smart plugs and thermostatic shower valves. These measures have netted good savings per the AR TRM and have been successful in other programs.

Residential HVAC Replacement and Tune-Up (Res HVAC)

The Residential HVAC Replacement and Tune-Up (Res HVAC) channel focuses on energy savings by optimizing existing HVAC units and replacing HVAC systems that have failed (replace on burnout, or ROB). It also provides incentives for air and duct sealing measures. This offering is designed as a market-driven approach that utilizes local HVAC contractors for the completion of the work.

Customer-requested HVAC tune-ups, air and duct sealing, or unit replacements are completed through a network of participating contractors. When customers contact the HEEP program, the implementer, CLEAResult, refers them to available contractors or schedules an appointment for them. Contractors

complete the tune-up, air and duct sealing, or HVAC unit replacement, the data collection on system performance, and the paperwork required to submit the applicable channel rebate forms. Once the application has passed the channel requirements review, it is processed, and the rebate is paid directly from OG&E to the contractor.

Because some rural customers experienced long wait times for tune-ups, CLEAResult offered customers a "Smart Kit" that included one smart strip and two smart sockets. These were very well received.

Table 3-22 lists the available measures in the Res HVAC channel and the corresponding incentives.

Table 3-22 Res HVAC Measure Incentives

Measure	Incentive
A/C tune-up	Up to $250
New HVAC system (ROB)	Up to $3,000
Refrigerant filled to requirement	Full cost
Air/duct sealing	Full Cost

Res HVAC – Key Evaluation Findings

The **impact evaluation** established Res HVAC evaluated gross energy savings of 14,055,338 kWh and evaluated gross demand savings of 3,383 kW, which amount to realization rates of 99.9% for each. Table 3-23 provides a summary of the Res HVAC impact evaluation findings.

Table 3-23 Res HVAC Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	14,087,977	14,055,338	100%	11,103,717	79%	135,084,731
Demand (kW)	3,388.7	3,382.7	100%	2,672.3	79%	n/a

The **impact evaluation** produced the following key findings:

- **AEG found the claimed savings methodology sound.** We made no changes to most measures and minor changes to a handful of measures.
- **Power strips and smart sockets achieved survey-based ISRs of 69% and 37%, respectively.** These marks were substantially lower than claimed ISRs (100%) and deemed ISRs in the TRM (83%).

The **process evaluation** produced the following key findings:

- **CLEAResult eliminated the backlog of rural customers waiting for services** by hiring three new residential technicians to support rural customers.
- **Trade Allies (TAs) are worried about their role in the channel in the next program cycle.** If it no longer utilizes the contractor network, several TAs will have trouble replacing the loss of revenue, particularly in the summer months.
- **The channel successfully influences customers** to tune up their air conditioner units, according to TAs. Most feel the channel reaches people who would not take action on their own.

Res HVAC – Recommendations

The **impact evaluation recommendations** are as follows:

- **Conduct quality assurance checks** to verify the correct efficiencies and capacities used to calculate savings across tune-up projects. Data accuracy will improve claimed savings estimates.
- **Use survey-verified ISRs when calculating claimed savings for SmartKit components** rather than TRM-deemed ISRs.

The **process evaluation recommendations** are as follows:

- **Continue to have dedicated technicians for rural customers.** This strategy has been extremely effective in reducing the backlog.
- **Keep the contractor network.** OG&E can continue to rely on a well-trained team of TAs who are invested in the success of the channel.

Res HVAC – Impact Evaluation

Evaluation Approach. As summarized in Table 3-4 (page 25), AEG conducted savings replication and savings verification to evaluate savings. We conducted modified desk reviews on a random sample of weatherization projects in lieu of traditional engineering desk reviews, as described below.

Evaluation Adjustments. Figure 3-9 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 3-9 Res HVAC Summary of Adjustments by Activity

- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 99.9% for both energy and demand relative to total claimed savings. AEG made the following changes to claimed savings:
  - **Replace on burnout (ROB).** AEG could not replicate energy savings for one heat pump ROB project. CLEAResult confirmed AEG's calculations were correct. While it is unclear what caused the discrepancy, the effect on the channel overall was inconsequential.
  - **SmartKits (power strips and smart sockets).** OG&E appeared to assume an ISR of 100% for SmartKit measures. AEG applied ISRs of 83% for power strips and 74% for smart sockets, per the AR TRM, which decreased savings.
- **Desk Review.** Desk reviews yielded realization rates of 100% for energy and demand relative to savings replication results. Because Res HVAC projects lack accompanying documentation, AEG conducted modified desk reviews for sampled projects using relevant industry resources.
  - **Duct sealing.** AEG verified air conditioner efficiencies and capacities for sampled projects using the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) database or product documentation (e.g., spec sheet). The nameplate efficiencies were routinely higher than the value deemed by the AR TRM. Per CLEAResult's recommendation, AEG incorporated

methodology from AR TRM Section 2.1.5 that depreciates the nameplate efficiency based on the age of the system. Under this approach, AEG found that using depreciated nameplate efficiencies or the AR TRM's deemed efficiency value did not produce significantly different savings. CLEAResult and AEG agreed to use the AR TRM's deemed efficiency value, which resulted in a 100% realization rate for duct sealing measures.

- **Savings Verification.** AEG administered online surveys participants to verify ISRs and other relevant household and project details, which produced realization rates of 99.9% for both energy and demand relative to desk review results.
  - Using self-reported information from respondents, AEG estimated ISRs of 69% for advanced power strips and 37% for smart sockets. These were lower than TRM-deemed ISRs and thus decreased savings for these measures overall. However, AEG also confirmed end uses for both measures. Although it did not completely offset the decrease in savings from lower ISRs, it did help reduce the negative impact.
  - SmartKits comprised less than 1% of all Res HVAC claimed savings. SmartKit savings verification results were extrapolated only for SmartKit measures (advanced power strips and smart sockets), which minimized the impact of savings verification activities on overall channel gross verified savings.
- **Net-to-Gross.** AEG applied the updated NTG ratio (79%) from the PY2023 evaluation.

Stratum-Level Findings. Table 3-24 and Table 3-25 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 0.1% (kWh) and 0.1% (kW) at the 90% confidence level, both of which exceed the minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 3-24 Res HVAC Energy Savings Summary by Stratum

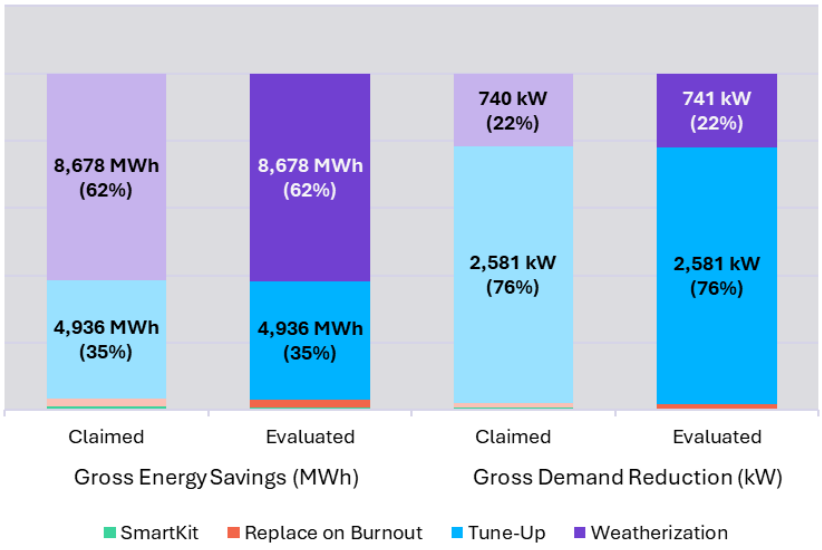
Stratum	Projects	Gross Energy Savings (kWh)			90% Confidence	
		Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Replace on Burnout	116	343,025	342,157	100%	0	0.0%
SmartKit	469	130,851	99,092	76%	10,487	10.6%
Tune-Up	2,906	4,935,941	4,935,954	100%	0	0.0%
Weatherization	4,995	8,678,160	8,678,135	100%	0	0.0%
Total	**8,486**	**14,087,977**	**14,055,338**	**100%**	**10,487**	**0.1%**

Table 3-25 Res HVAC Demand Reduction Summary by Stratum

Stratum	No. of Projects	Gross Demand Reduction (kW)			90% Confidence	
		Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Replace on Burnout	116	43.9	43.9	100%	0.0	0.0%
SmartKit	469	23.5	17.4	74%	2.1	11.9%
Tune-Up	2,906	2,581.0	2,580.7	100%	0.0	0.0%
Weatherization	4,995	740.4	740.6	100%	0.0	0.0%
Total	**8,486**	**3,388.7**	**3,382.7**	**100%**	**2.1**	**0.1%**

Figure 3-10 shows energy savings and demand reductions distributed by stratum. Weatherization measures contributed 62% of evaluated energy savings while tune-up measures comprised 76% of evaluated demand reduction.

Figure 3-10 Res HVAC Claimed and Evaluated Savings by Stratum



Measure-Level Findings. AEG successfully replicated savings for all ROB, tune-up, and weatherization projects except for one (as described in Evaluation Adjustments) and did not make any further adjustments during desk reviews. As such, realization rates for those measures approached 100%. Only SmartKits saw dramatic differences in savings (see Table 3-24 and Table 3-25).

Table 3-26 shows ISRs for SmartKit contents as verified by results from AEG's online participant survey.

Table 3-26 Res HVAC Survey-Verified ISRs

Measure	TRM ISR	Verified ISR	Survey Completes (n)
Advanced Power Strip (SmartKit)	84%	69%	108
Smart Sockets (SmartKit)	73%	37%	101

Table 3-27 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Weatherization measures of air and duct sealing contributed most of the channel's lifetime savings.

Table 3-27 Res HVAC Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Replace on Burnout	21.5	5,814,977
SmartKit	10.0	782,829
Tune-Up	5.0	19,497,020
Weatherization	15.9	108,989,905
Total	**12.2**	**135,084,731**

Res HVAC – Process Evaluation

Evaluation Approach. As summarized in Table 3-5 (page 26), AEG interviewed OG&E and CLEAResult program managers as well as TAs (n=7 of 27 participating).

Channel Performance. Table 3-28 shows how Res HVAC performance changed from PY2023 to PY2024. Claimed energy savings increased by 24% and demand reduction increased by 23%. Res HVAC is the second-largest contributor to HEEP, representing 27% of energy savings and 29% of demand reduction.

Table 3-28 Res HVAC Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Difference
	Claimed	Share of HEEP	Claimed	Share of HEEP	PY2023 v. PY2024
Energy (kWh)	11,370,839	20%	14,087,977	27%	+24%
Demand (kW)	2,753.0	26%	3,388.7	29%	+23%

Channel Operations. Res HVAC is administered primarily through TAs, who reach out to interested customers, complete and submit applications through the iManifold online platform, and schedule and complete the work. CLEAResult markets the channel using bill inserts, social media campaigns, radio commercials, and direct emails to target people who have not tuned up their ACs in the last five to 10 years. In PY2024 CLEAResult hired three new residential technicians to support the rural backlog. The technicians are strategically located, each with their own territory, in hard-to-reach areas of the state. At the time of the implementer interview there was no longer a backlog of rural customers waiting for services.

CLEAResult staff train TAs and make themselves readily available for questions, typically responding to TA inquiries the same day, often within hours. CLEAResult also created a leave-behind flier that included customized recommendations written by the technicians servicing the homes. This has reduced calls from customers wanting more information.

All seven TAs interviewed by AEG were happy with their relationship with CLEAResult. CLEAResult's marketing efforts provide plentiful leads to the TA network, build contractors' customer bases, and result in solid, long-term customers for TAs.

> *"I really like the program. I want to keep working with OG&E."*

> *"I 100% love doing this work. OG&E and CLEAResult are so easy to work with"*

Channel Barriers. All the TAs interviewed are uncertain about what the next program year will bring. CLEAResult will no longer implement the channel, as Skyline Energy Solutions, who currently implements WRAP, was awarded the implementation contract. Some TAs have reached out to Skyline, but it is not clear if the channel will continue to utilize a contractor network. This worries TAs because the channel is an important part of their business and they don't know how they will replace the loss of revenue, particularly in the summer months.

> *"I sacrificed a lot to give all my business to OG&E. I may be in a tough spot."*

Channel Effectiveness. TAs feel the channel successfully influences customers to tune up their ACs and save energy. A few TAs said as many as half of customers may have paid for a tune-up without the channel, but most feel the channel reaches people who would not take action on their own.

Positive Energy – New Home Construction (PE-NHC)

The PE-NHC channel is designed to work with builders and contractors and induce them to include energy efficient practices and measures when constructing new homes within the OG&E Oklahoma territory.

The program standards manual establishes comprehensive standards that address heightened performance requirements attached to the building envelope, attic insulation, fenestration, and mechanical systems, which a third-party Home Energy Rating System® (HERS) Rater must verify. Inducements are paid to contractors that successfully meet or exceed all the minimum requirements defined by the program standards manual. Inducements are tiered in three categories based on increasing levels of achievement.

PE-NHC – Key Evaluation Findings

The **impact evaluation** established PE-NHC evaluated gross energy savings of 2,879,698 kWh and evaluated gross demand savings of 980 kW, which amount to realization rates of 100% for each. Table 3-29 provides a summary of the PE-NHC impact evaluation findings.

Table 3-29 PE-NHC Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	2,879,525	2,879,698	100%	2,418,946	84%	40,516,593
Demand (kW)	979.6	979.6	100%	822.8	84%	n/a

The **impact evaluation** resulted in the following key findings:

- **AEG made no meaningful changes to savings for homes in our desk review sample.** AEG adjusted energy savings where the program tracking database did not exactly match the home's HERS report.

The **process evaluation** resulted in the following key findings:

- **PE-NHC participation has grown** from 38 builders in PY2023 to 43 in PY2024.
- The availability of other **incentives and tax credits continue to have a large impact** on building practices.
- **Access to good HERS Raters has improved.** CLEAResult has their own HERS rater training program that could be implemented in Oklahoma to help with any future shortages.
- **The new home construction market continues to face challenges**, including high-interest rates and increases in the costs of products and equipment.
- **Most builders expect things to improve in 2025.**
- If the channel was discontinued **certain measures would no longer be routinely installed** in homes including high-efficiency HVAC measures and weatherization and building envelope measures.

PE-NHC – Recommendations

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- **Support local training for HERS raters** to ensure there are sufficient resources in the future.
- * **Showcase participating builders** on the OG&E website. This would make it easier for customers who value EE to find like-minded builders.

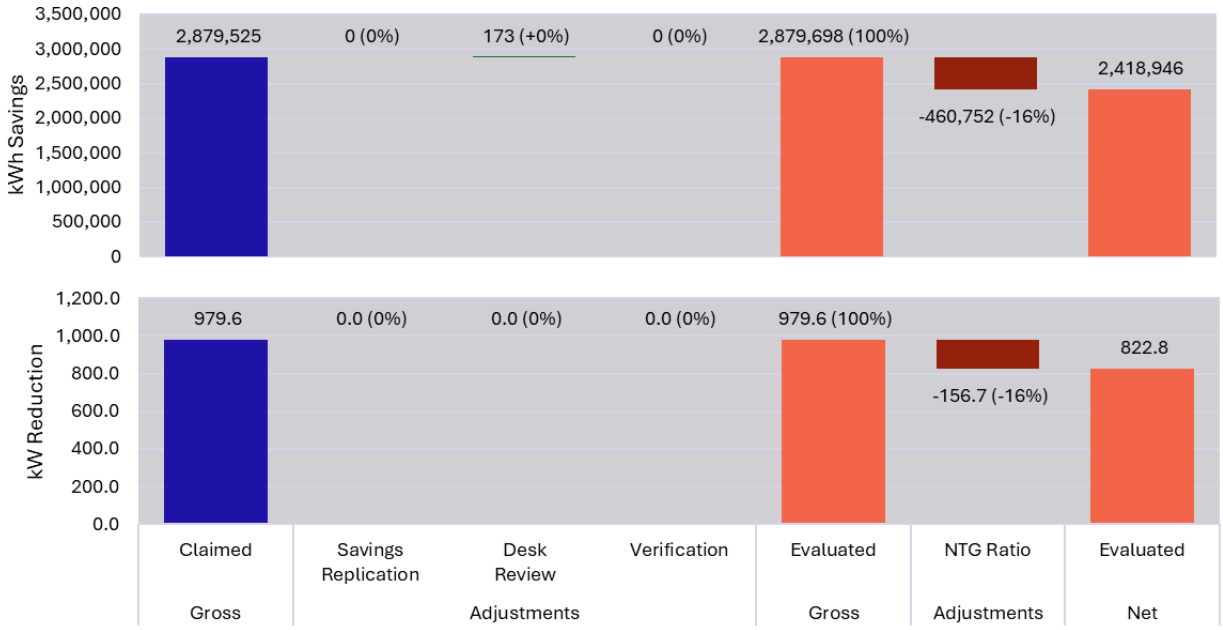
PE-NHC – Impact Evaluation

Evaluation Approach. As summarized in Table 3-4 (page 25), AEG conducted desk reviews on a random sample of projects to evaluate savings. We did not conduct savings replication or savings verification.

As described in *PE-NHC – Process Evaluation* below, AEG conducted interviews with home builders that included questions about free ridership in order to estimate a new NTG ratio for PY2024.

Evaluation Adjustments. Figure 3-11 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 3-11 PE-NHC Summary of Adjustments by Activity



- **Desk Review.** Desk reviews yielded realization rates of 100% for energy and 100% for demand relative to claimed savings. AEG corrected a minor discrepancy between claimed savings and the HERS report for one of 10 sampled homes.
- **Net-to-Gross.** AEG applied the NTG ratio (84%) from this year's evaluation. See *Net-to-Gross Analysis* below for more details.

Sample Expansion Findings. Table 3-30 shows evaluated energy savings and demand reduction. Overall, we estimated relative precision of less than 0.1% (kWh) and 0.0% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 3-30 PE-NHC Energy Savings Summary

Savings	Projects	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Energy (kWh)	1,757	10	2,879,525	2,879,698	100%	305	0.0%
Demand (kW)	1,757	10	979.6	979.6	100%	0.0	0.0%

Table 3-31 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Cooling equipment contributed the most to each home's lifetime savings.

Table 3-31 PE-NHC Net Lifetime Energy Savings by Measure

Measure Category	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Advanced Power Tap	10.0	1,042,100
Cooling equipment	19.0	25,175,405
ENERGY STAR Dishwasher	15.0	93,611
ENERGY STAR Refrigerator	17.0	1,047
Heating equipment	13.0	7,055
Lighting and appliances	16.0	8,284,174
Smart Thermostat	19.0	290,378
Water heater	12.5	5,622,823
Total	**16.7**	**40,516,593**

Net-to-Gross Analysis. In PY2022 AEG interviewed home builders to estimate an NTG ratio to be applied to the PY2023 evaluation. The project team had concerns about the methodology used and, in agreement with OG&E, we conducted a new NTG analysis in PY2024 to be applied immediately (to this year's evaluated savings). The resulting NTG ratio (84%) is 8 percentage points higher than the ratio assessed in PY2021 (76%).

PE-NHC – Process Evaluation

Evaluation Approach. As summarized in Table 3-5 (page 26), AEG interviewed OG&E and CLEAResult program managers as well as new home builders (n=10 of 29 participating).

Channel Performance. Table 3-32 shows how PE-NHC performance changed from PY2023 to PY2024. Claimed energy savings increased by 10% and demand reduction increased by 11%. PE-NHC makes a small contribution to HEEP overall, representing 5% of energy savings and 8% of demand reduction.

Table 3-32 PE-NHC Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Difference
	Claimed	Share of HEEP	Claimed	Share of HEEP	PY2023 v. PY2024
Energy (kWh)	2,619,696	4%	2,879,525	5%	+10%
Demand (kW)	886.3	8%	979.6	8%	+11%

Channel Operations. Participating builders work with a third-party HERS Rater to create energy models for newly built homes. These energy models use certified energy modeling software to determine a home's savings. OG&E offers three levels of inducements that are conditional upon the home's energy savings and square footage and as determined by the HERS Rater. Channel staff also added a multifamily component that incentivizes the building of new EE multifamily homes (up to four stories) at a flat rate based on a reference home. Builders install a variety of equipment and measures to get the HERS rating they need to qualify for a PE-NHC inducement.

To engage builders, CLEAResult is involved with the builder's association. CLEAResult staff attend all meetings and sponsor events such as parade of homes. HERS Raters also market the channel to builders. CLEAResult has recently partnered with Zonda Homes, an organization that collects data from HERS inspections, real estate companies, and permits. With this information, CLEAResult can tap into areas with high levels of new home construction and have knowledge of the HERS scores of the new homes built there.

PE-NHC Customer Participation Process

- Builder enrolls in program and completes participation agreement.
- Builder constructs homes, installing a variety of EE measures.
- Builder identifies a HERS Rater to create an energy model for the home.
- Rater conducts pre-dry wall and final home inspections.
- Rater submits home to CLEAResult with energy model and rating.
- CLEAResult reviews energy model and documentation.
- CLEAResult sends inducement to builder.

Barriers to Participation. The housing market and the availability of HERS Raters, both barriers that were identified in the previous evaluation, remain but have improved. Documentation and communication with HERS Raters have improved significantly. In other parts of the country, including Arkansas, CLEAResult has trained their own internal HERS Raters, proctoring their training and exams. They also have a training facility in Massachusetts with a certified HERS trainer. They hope to bring the internal rater program to Oklahoma as well.

Channel Effectiveness. To understand the influence of the channel on builders' construction practices, AEG asked builders if they would continue to build new homes at the same frequency, with the same EE measures, and at the same efficiency levels if PE-NHC inducements were reduced. Two builders said they would build fewer homes without the channel. Two builders said the price of the homes would increase, but one builder felt the price would decrease without the channel. Several builders said they would stop installing certain measures, including:

- Geothermal systems
- Foundation insulation
- Aerosol foam sealant
- High-efficiency heating and cooling
- R-44 Insulation
- Tankless water heaters
- Air infiltration

Builders had a range of opinions about the influence of the inducements. Some felt they were instrumental to their current building practices…

> *"We wouldn't do what we do without the rebate."*

… while others said they would not change anything if the channel didn't exist as long as there were federal grants and other incentives available:

> *"Even with the incentive, the OG&E homes cost more money."*

> *"We don't change anything for the OG&E program – we already changed things for ENERGY STAR®."*

Others didn't know how buyers would react to the homes if the price increased or if EE measures were no longer included.

> *"We will build this way as long as we have buyers, but buyers are not a sure thing."*

Consumer Products (CPS)

The Consumer Products (CPS) channel provides customers with instant, point-of-purchase inducements on select ENERGY STAR-qualified products and appliances at various retail locations. This channel also works with food banks to offer ENERGY STAR-qualified LED bulbs to patrons.

The goal is to provide a pathway for customers to get energy-efficient products into their homes outside of a contractor-driven installation. This channel aims to intervene after a customer has decided to purchase a new appliance or product, when the opportunity to educate them on higher-efficiency options is limited.

CPS targets purchasing decisions, aiming to influence customers towards buying higher-efficiency equipment and products. Marketing collateral on special pricing and benefits associated with higher efficiency appliances and products is displayed at the physical or digital location of purchase. Customers can compare options and benefits, but the inducements are meant to buy down the price to a level where the decision to purchase the efficient option is relatively straightforward and can be guided largely by price alone. Inducements are provided upstream, midstream, and downstream for various technologies.

Table 3-33 shows the measures implemented in PY2024.[7]

Table 3-33 CPS 2023 Participation by Measure

Measure	Number of Rebated Measures
Advanced Power Strips	32,813
Aerosol Foam Sealant	53,701
Bathroom Ventilating Fan	549
Dehumidifier	366
ENERGY STAR Interior LEDs	524,212
ENERGY STAR Window A/C	174
Room Air Purifier	707
Smart Thermostat	1,287
Water Dispenser	577
Water Heater Jacket	35
Total	**614,421**

CPS – Key Evaluation Findings

The **impact evaluation** established CPS evaluated gross energy savings of 29,546,936 kWh and evaluated gross demand savings of 5,733 kW, which amount to realization rates of 99% and 93%, respectively. Table 3-34 provides a summary of the CPS impact evaluation findings.

Table 3-34 CPS Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	29,822,582	29,546,936	99%	18,023,631	61%	224,829,329
Demand (kW)	6,169.0	5,733.3	93%	3,612.0	63%	n/a

The **impact evaluation** produced the following key findings:

- **Aerosol foam sealant contributed nearly half of all CPS demand reduction.** Aerosol foam sealant was newly added in PY2024. LEDs continue to comprise a majority of CPS energy savings but will continue to decline.
- **AEG used ENERGY STAR Qualified Product Lists (ES QPLs) to estimate savings more accurately** for dehumidifiers, room air purifiers, and water dispensers.

The **process evaluation** produced the following key findings:

[7] A list of eligible measures for CPS can be found in Appendix C of OG&E 2022-2024 Demand Program Plan for Oklahoma.

- **The channel more than doubled energy savings from non-lighting measures** to hedge against decreases in LED energy savings.
- OG&E delivered 500,000 LEDs through food banks in PY2024, amounting to **56% of all CPS energy savings**.
- The new **aerosol foam sealant measure performed well**: CPS delivered more than 53,000 spray cans, of which 56% were distributed through food banks.

CPS – Recommendations

The **impact evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * **Provide information about OG&E SmartHours enrollment at the point of purchase.** The AR TRM deems no demand reductions for smart thermostats. As such, smart thermostats achieved 0 kW. The AR TRM notes that any demand reductions that could be claimed for smart thermostats ought to be done so specifically through a demand reduction program that conducts and provides incentives for scheduled load-reduction events.
- **Use ENERGY STAR data to estimate claimed savings more accurately for air purifiers, bathroom ventilating fans, and dehumidifiers.** Using ES QPL actuals as instructed by the AR TRM resulted in lower savings for air purifiers and dehumidifiers.
- **Calculate therms values for home with gas heat installing aerosol foam sealant measures.** The CLEAResult white paper used to calculate kWh and kW savings does not provide a method for calculating therm savings for homes with gas heat. Calculating therms will not affect achievements towards progress but will affect CE.
- **Award heating savings correctly for smart thermostats.** Projects with electric heat pumps incorrectly left out heating savings, and projects with electric resistance heating incorrectly awarded the sum of all heating savings from the AR TRM.

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

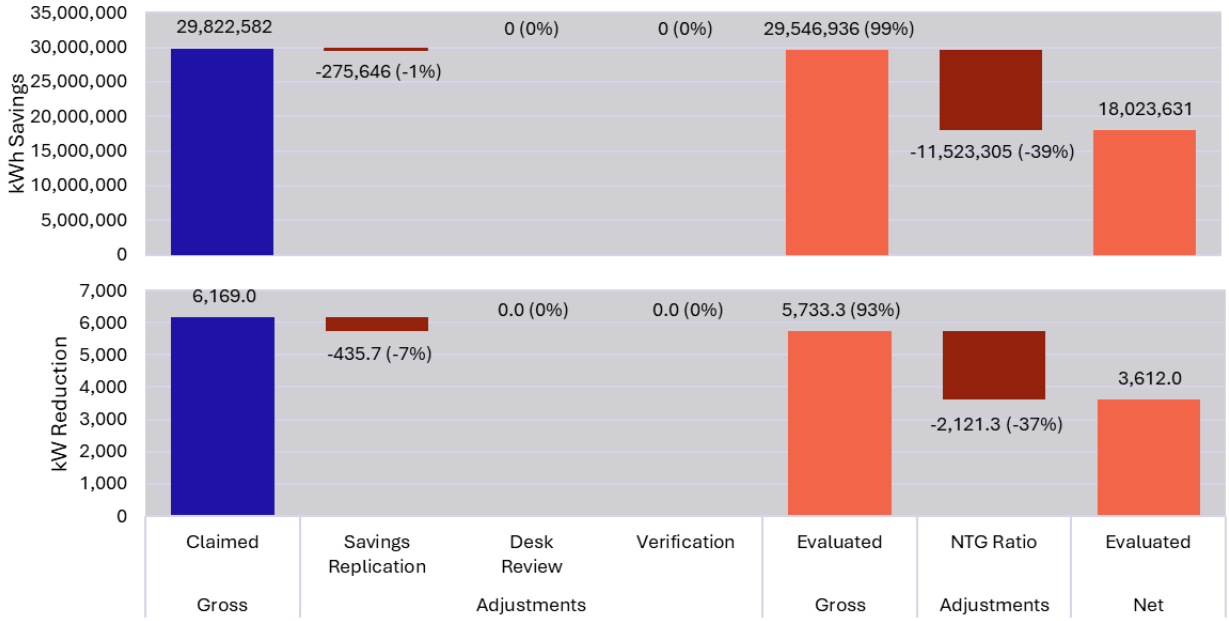
- **Collect customer address and contact information from food bank customers so the evaluator can better verify participation.** The proportion of savings achieved through food bank distribution is concerning considering no data is tracked for ISRs or where measures are installed.
- * **Deliver an online marketplace** to expand access to rebated measures.
    - OG&E has been evaluating adding an online marketplace.
- * **Increase the number of in-store field representatives if the budget allows**. Field representatives are effective and popular with customers and store personnel.

CPS – Impact Evaluation

Evaluation Approach. As summarized in Table 3-4 (page 25), AEG conducted savings replication to evaluate savings. We did not conduct desk reviews or savings verification.

Evaluation Adjustments. Figure 3-12 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 3-12 CPS Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 99% for energy and 93% for demand relative to claimed savings. AEG made the following changes to claimed savings:
  - **Dehumidifiers.** For Q1-Q2, claimed savings were set equal to consumption rather than savings, which we corrected. We also used actual capacities from the ES QPL per the AR TRM's guidance. These corrections and adjustments reduced measure savings by more than 70%.
  - **LEDs.** AEG assumed 365.25 days of use per year instead of 365 days, which increased measure savings negligibly.
  - **Room air purifiers.** AEG used actual CADR ratings from the ES QPL per the AR TRM's guidance, which decreased measure savings. Claimed kW is not being calculated in a manner that is consistent with the AR TRM.
  - **Smart thermostats.** Claimed savings for projects with electric heat pumps incorrectly left out heating savings, and projects with electric resistance heating incorrectly awarded the sum of all heating savings from the AR TRM. These corrections reduced measure savings slightly.
  - **Water dispensers.** The AR TRM's assumption for daily on-mode standby consumption (2.19 kWh per day) is 83% higher than the baseline used by ENERGY STAR (1.20 kWh). AEG used ENERGY STAR's baseline in calculating savings, which reduced energy savings significantly but conforms with contemporary standards. Claimed savings for the first half of the year were calculated consistent with methods used in previous years, but then in the second half of the year OG&E updated its methodology to align with ENERGY STAR based on AEG recommendations from the PY2023 evaluation. We corrected all records from January through May, causing measure savings to fall by more than half.
- **Net-to-Gross.** AEG applied the NTG ratios (61% for energy savings, 63% for demand reduction) from the PY2021 evaluation.

Measure-Level Findings. Table 3-35 shows CPS measure-level claimed and evaluated savings. Consistent with PY2022, LEDs comprised the majority of total evaluated energy savings (56%) while aerosol foam sealant comprised the plurality of total evaluated demand reduction (49%).

Table 3-35 CPS Savings Summary by Measure

Measure	Measures	Gross Energy Savings (kWh)			Gross Demand Reduction (kW)		
		Claimed	Evaluated	RR	Claimed	Evaluated	RR
Advanced Power Strips	32,813	5,492,896	5,491,256	100%	623.4	623.4	100%
Aerosol Foam Sealant	53,701	6,164,292	6,169,086	100%	2,813.1	2,813.1	100%
Bathroom Ventilating Fan	549	15,043	15,043	100%	1.9	1.9	100%
Dehumidifier	366	126,392	35,768	28%	7.3	8.1	111%
ENERGY STAR Interior LEDs	524,212	16,499,198	16,510,499	100%	2,214.9	2,214.9	100%
ENERGY STAR Window A/C	174	30,149	30,149	100%	35.4	35.4	100%
Room Air Purifier	707	267,762	218,634	82%	448.2	25.0	6%
Smart Thermostat	1,287	1,005,189	974,695	97%	0.0	0.0	n/a
Water Dispenser	577	220,467	100,612	46%	24.7	11.5	46%
Water Heater Jacket	35	1,195	1,195	100%	0.1	0.1	100%
Total	**614,421**	**29,822,582**	**29,546,936**	**99%**	**6,169.0**	**5,733.3**	**93%**

Overall, LEDs drove the overall CPS savings and realization rates. Figure 3-13 shows the distribution of claimed and evaluated savings of the channel measures.

Figure 3-13 CPS Claimed and Evaluated Savings by Measure

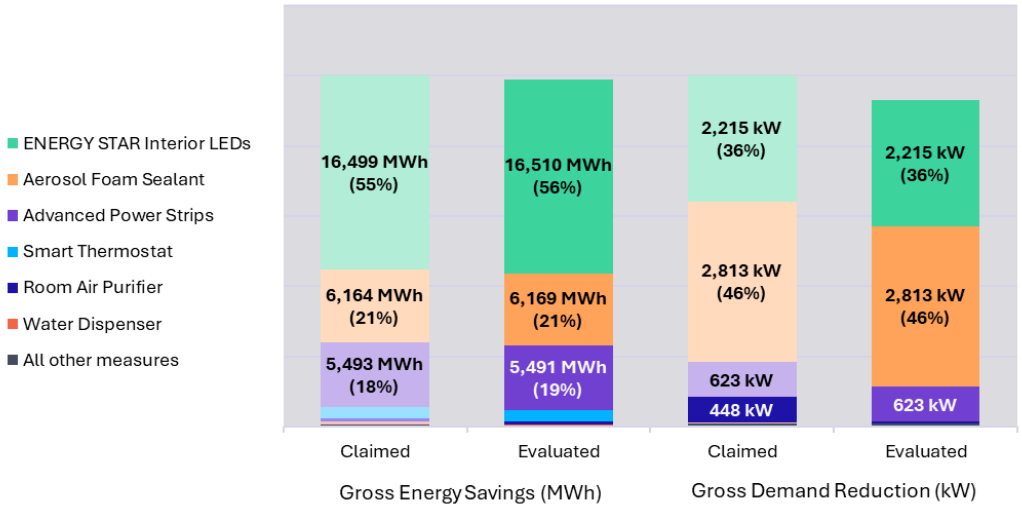


Table 3-36 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. LEDs contributed the most to the channel's lifetime savings.

Table 3-36 CPS Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Advanced Power Strips	10.0	33,496,659
Aerosol Foam Sealant	15.0	56,447,136
Bathroom Ventilating Fan	19.0	174,344
Dehumidifier	12.0	261,822
ENERGY STAR Interior LEDs	12.5	125,892,552
ENERGY STAR Window A/C	10.5	193,102
Room Air Purifier	9.0	1,200,300
Smart Thermostat	11.0	6,540,206
Water Dispenser	10.0	613,735
Water Heater Jacket	13.0	9,474
Total	**12.5**	**224,829,329**

CPS – Process Evaluation

Evaluation Approach. As summarized in Table 3-5 (page 26), AEG interviewed OG&E and CLEAResult program managers.

Channel Performance. Table 3-37 shows how CPS performance changed from PY2023 to PY2024. Claimed energy savings decreased by 24% and demand reduction increased by 10%. CPS is the largest contributor to HEEP, delivering more than half of the program's savings.

Table 3-37 CPS Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Difference
	Claimed	Share of HEEP	Claimed	Share of HEEP	PY2023 v. PY2024
Energy (kWh)	39,584,658	68%	29,822,582	57%	-24%
Demand (kW)	5,593	53%	6,169	52%	+10%

Channel Operations. CPS operates like a traditional midstream point-of-purchase discount program. When customers purchase a qualifying measure at participating retailers, they receive an immediate discount at the time of purchase, except for smart thermostats, which require a rebate form. Eighty brick-and-mortar retailers participate in the channel. CPS also provides no-cost LED lighting and power strips through the Regional Food Bank of Oklahoma and Community Food Bank of Eastern Oklahoma. OG&E delivered 500,000 LEDs (56% of all CPS energy savings) through food banks in PY2024.

CPS Customer Participation Process

- Customer visits participating retailer.
- Customer purchases eligible measure and receives point of purchase discount.
- Retailer provides sales information to CLEAResult.
- CLEAResult pays inducement to retailer.

Channel staff have been actively looking for additional measures to replace declining energy savings from LED lighting. They added aerosol foam sealant, ENERGY STAR washers and dryers, and water heater jackets to the channel. The aerosol foam sealant performed well: CPS delivered more than 53,000 spray cans, of which 56% were distributed through food banks. The new measure contributed 21% of all CPS energy savings and 46% of demand reduction. However, the laundry appliances and water heater jackets have not: there were no sales of washers or dryers recorded in PY2024, and only 37 water heater jackets were delivered. An online marketplace may be added to the channel during the PY2025-PY2029 cycle.

Channel Effectiveness. Because CPS uses a downstream delivery mechanism, OG&E works hard to ensure CPS participants know they are getting discounts on products because of OG&E. In-store field representatives provide education to customers and store employees, which, from program staff's

perspective, appear to be well-received. Signage in stores is branded with the utility logo and is highly effective. Very little additional marketing is needed. The implementer would like to add another field rep, however, to help promote the channel and assist in customer education.

4 | WEATHERIZATION RESIDENTIAL ASSISTANCE PROGRAM (WRAP)

The Weatherization Residential Assistance Program (WRAP) achieves energy savings by improving comfort and reducing energy costs for OG&E Oklahoma's residential customers. The program design ensures the greatest benefit to the customers while achieving cost-effective energy savings. OG&E contracts with Skyline Energy Solutions (Skyline) to implement WRAP.

Participant Eligibility. Residential customers can apply for WRAP if they own, rent, or lease their single-family home, duplex, or mobile home and have annual household incomes at or below $60,000. Property owners of multifamily units whose rental units are 66% occupied by hard-to-reach customers, pursuant to OAC 165:35-41-3 definition of "hard-to-reach customers," are also eligible to apply. Some restrictions may prevent a customer from participating, including but not limited to an unvented space heater or open-flame heater as a main heat source.

Key program elements are as follows:

- **Customer verification (pre-screening and pre-qualification).** Customers interested in the program will receive initial outreach to confirm them as pre-screened eligible customers within the service territory. After confirmation, the customer will schedule an assessment of the home and undergo the pre-qualification assessment. This assessment ensures that participants meet the health and safety, economic, and technical requirements.
- **A comprehensive assessment of the customer's home.** Once the customer is prequalified, they will schedule a comprehensive audit of the home, during which Skyline develops a recommended action plan for weatherization upgrades for the homeowner.
- **Installation of a set of weatherization measures.** The TA and customer review the recommended action plan for the customer's home and decide on what upgrades to be completed.
- **Air conditioner tune-ups.** This measure was added to WRAP in late PY2022 and saw significant growth in PY2023 that leveled off in PY2024.

Table 4-1 shows the measures implemented in PY2024.[8]

Table 4-1 WRAP PY2024 Participation by Measure

Measure	No. of Homes		
	Multifamily	Single Family	Total
AC Tune-up	17	210	**227**
Air Infiltration	545	2,447	**2,992**
Attic Insulation	83	957	**1,040**
Duct Sealing	503	2,410	**2,913**
ENERGY STAR Ceiling Fan	0	8	**8**
ENERGY STAR Window	0	13	**13**
LEDs	209	1,695	**1,904**
Water Heater Pipe Wrap	1	0	**1**
Total Unique Homes	**547**	**2,496**	**3,043**

Repair-to-Qualify Initiative. Under OG&E's Innovation / Research and Development (R&D) support services, WRAP launched the Repair-to-Qualify (RTQ) Initiative in PY2022 to reduce the disqualification rate and increase participation, especially among hard-to-reach and resource-strained customers. The

[8] A list of eligible measures for WRAP can be found in Appendix C of OG&E 2022-2024 Demand Program Plan for Oklahoma.

WRAP program has a historical 50% disqualification rate, of which 25% are due to minor repairs. This initiative covers the cost of minor repairs required to qualify a home for the current WRAP program. This initiative covered the cost of minor repairs up to $1,000. The repairs may include flue, roof flashing, HVAC, and health and safety repairs.

WRAP – Key Evaluation Findings

The **impact evaluation** established WRAP evaluated gross energy savings of 9,765,129 kWh and evaluated gross demand savings of 2,890 kW, which amount to realization rates of 98% and 102%, respectively. WRAP achieved 89% of net energy savings goals and 76% of net demand reduction goals.

Table 4-2 provides a summary of the WRAP impact evaluation findings.

Table 4-2 WRAP Impact Evaluation Summary

Savings	Gross Savings			Net Savings				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
Energy (kWh)	9,924,588	9,765,129	98%	10,926,977	9,765,129	89%	100%	153,574,712
Demand (kW)	2,828.8	2,889.6	102%	3,809.0	2,889.6	76%	100%	n/a

The **impact evaluation** produced the following key findings:

- **Surveys provided self-report in-service rates for LEDs, which reduced energy savings.** Surveys captured uninstall rates as well as location (interior or exterior) for LEDs still installed.
- **Roughly 30% of survey respondents reported different cooling and heating fuel types** from those recorded in the program data. This is an unusual result and suggests WRAP's target customers, specifically those with gas heating, may not be aware of which fuel sources power their HVAC equipment. AEG did not apply self-report HVAC results to verified savings.
- **The AR TRM yields higher savings than the 2017 Oklahoma Deemed Savings Manual** (OK DSM). AEG replicated savings using the OK DSM but verified savings using the AR TRM and other resources.

The **process evaluation** produced the following key findings:

- Problems with **overlap between RSOL and WRAP** remained in PY2024, but OG&E has **taken steps to improve this process in the next cycle**. Customers will be assigned to RSOL or WRAP based on the information they provide when they go online to enroll for services.
- The RTQ program **budget was cut in PY2024 and only 35% of eligible customers were able to get services** through the program.
- The program **did not meet its participation goal,** resulting in a 24% savings decrease and a 14% demand decrease compared to PY2023.

WRAP – Recommendations

The **impact evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * **Update claimed savings to the most-current version of the AR TRM**. Energy savings for measures such as air infiltration, attic insulation, water heater jackets, and water heater pipe wrap have changed significantly since the 2017 OK DSM.
- * **Deliver low-cost items** such as low-flow showerheads, low-flow kitchen aerators, low-flow bathroom aerators, and advanced power strips **to capture "low-hanging fruit" energy savings**.

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * **Continue community marketing.** Focusing on underserved rural communities can make travel to those areas worthwhile. Community focused marketing blasts can increase awareness and participation.

- * **Increase funding for RTQ.** The pilot has been successful in providing necessary services to formerly ineligible customers.

WRAP – Impact Evaluation

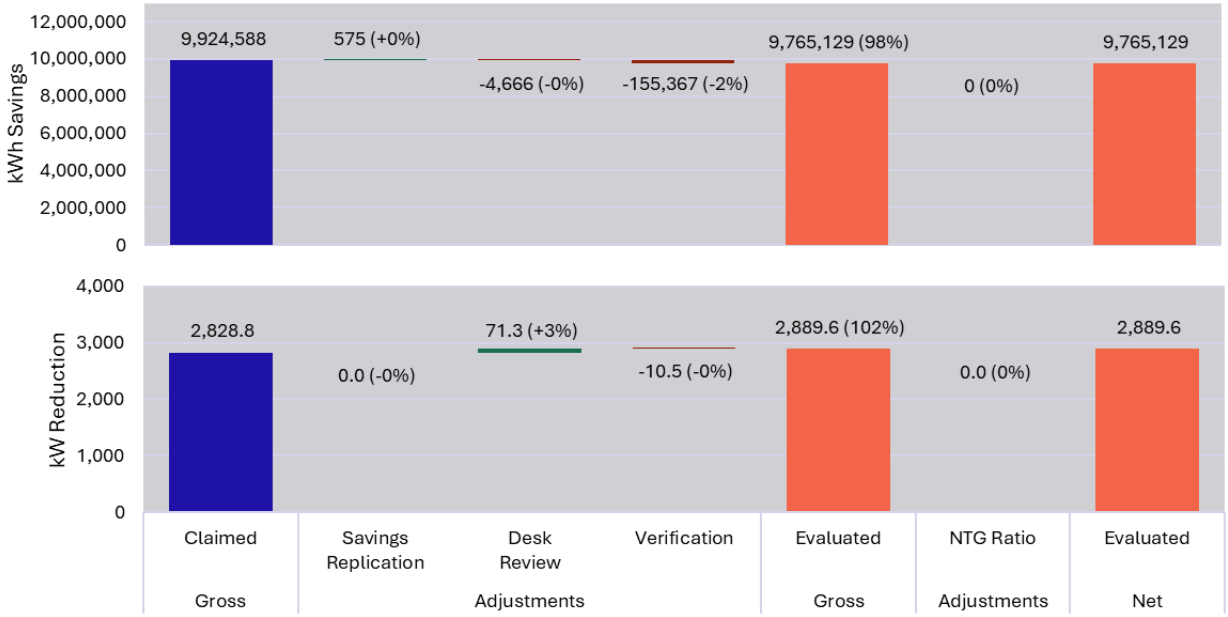
Evaluation Approach. As summarized in Table 4-3, AEG conducted savings replication, desk reviews, and savings verification to evaluate savings.[9] AEG used a stratified random sample for desk reviews. We defined the sample frame unit as one home and stratified the participant population by home type (i.e., single-family or multifamily) and fuel type (electric or gas).

Table 4-3 WRAP Impact Evaluation Activities

Program	Savings Replication	Desk Review	Savings Verification	NTG Ratio Update	Benefit-Cost Analysis
WRAP	✓	✓	✓		✓

Evaluation Adjustments. Figure 4-1 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 4-1 WRAP Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 100% for energy and 100% for demand relative to claimed savings. All claimed savings were replicated using the OK DSM, which Skyline continues to use to calculate claimed savings. AEG made the following changes to claimed savings:
  - **Duct sealing.** AEG identified two duct sealing projects (out of more than 2,900) that calculated energy savings incorrectly but demand reduction correctly. These revisions increased energy savings negligibly.
- **Desk Review.** Desk reviews yielded realization rates of 100% for energy and 103% for demand relative to savings replication results. AEG did not identify any discrepancies between project documents and the program tracking database; therefore, any differences from replicated savings stem from the AR TRM relative to the OK DSM.

[9] We include detailed descriptions of each activity in Appendix A.

- **Savings Verification.** AEG administered online surveys to verify in-service rates (ISRs), which produced 98% for energy and 100% for demand relative to desk review results.
    - AEG asked survey respondents to provide their home's heating and cooling fuel sources. The self-reported results differed routinely from the data recorded by the program's field technicians. The result is unusual and may reflect a lack of awareness among WRAP participants and customers. Respondents with gas heat (per the program data) were significantly more likely to report that they had electric heat, but not the other way around for respondents with electric heat. Applying electric energy savings to gas heat customers would add savings where there were none previously, thereby dramatically increasing realization rates for the program.

Stratum-Level Findings. Table 4-4 and Table 4-5 show evaluated energy saving and demand reduction. Overall, we estimated relative precision of 1.2% (kWh) and 1.9% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 4-4 WRAP Energy Savings Summary by Stratum

Stratum	Homes	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Single Family - Gas	2,005	8	3,469,441	3,269,553	94%	112,673	3.4%
Multi-Family - Gas	163	4	217,020	206,693	95%	8,610	4.2%
Single Family - Electric	491	8	3,934,947	3,964,480	101%	31,993	0.8%
Multi-Family - Electric	384	8	2,303,179	2,324,403	101%	10,448	0.4%
Total	**3,043**	**28**	**9,924,588**	**9,765,129**	**98%**	**120,593**	**1.2%**

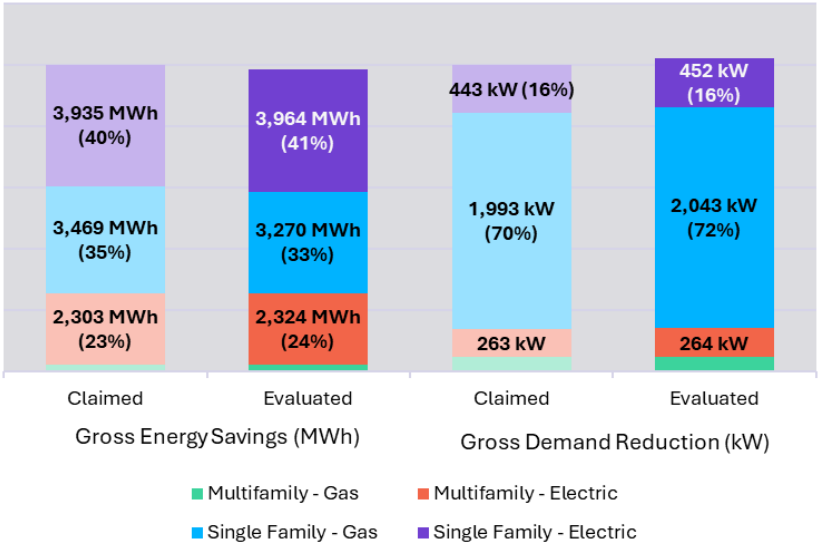
Table 4-5 WRAP Demand Reduction Summary by Stratum

Stratum	Homes	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Single Family - Gas	2,005	8	1,992.5	2,042.9	103%	53.6	2.6%
Multi-Family - Gas	163	4	130.6	130.7	100%	0.2	0.2%
Single Family - Electric	491	8	442.7	451.9	102%	5.9	1.3%
Multi-Family - Electric	384	8	263.0	264.1	100%	0.2	0.1%
Total	**3,043**	**28**	**2,828.8**	**2,889.6**	**102%**	**54.0**	**1.9%**

Figure 4-2 shows the MWh savings and kW savings by stratum to illustrate the strata distribution on the overall program.

- The *Single Family – Electric* stratum comprises 16% of total serviced homes but makes up 41% of the electric energy savings.
- The *Single Family – Gas* stratum makes up 66% of the total serviced homes and 72% of the total demand reduction due to the high proportion of cooling in the population and the stratum's large nominal size.

Figure 4-2 WRAP Claimed and Evaluated Savings by Stratum



Measure-Level Findings. For evaluation activities that use a sampling approach, we expanded the sample at the stratum level rather than the measure level. As such, we do not officially calculate savings at the measure level, but we can still provide measure-level findings.

Table 4-6 shows extrapolated findings summarized by measure. Note that carbon monoxide and smoke detectors do not have claimed or evaluated savings and are excluded from the table.

Table 4-6 WRAP Savings Summary by Measure

Measure	Homes	Gross Energy Savings (kWh)			Gross Demand Reduction (kW)		
		Claimed	Evaluated	RR	Claimed	Evaluated	RR
AC Tune-up	227	194,829	192,017	99%	111.3	114.3	103%
Air Infiltration	2,992	2,630,590	2,640,464	100%	516.0	529.1	103%
Attic Insulation	1,040	883,701	883,234	100%	313.1	321.5	103%
Duct Sealing	2,913	5,512,286	5,512,687	100%	1,795.6	1,839.9	102%
ENERGY STAR Ceiling Fan	8	2,464	2,428	99%	0.4	0.4	103%
ENERGY STAR Window	13	10,726	10,627	99%	5.6	5.7	103%
LEDs	1,904	689,920	523,600	76%	86.9	78.7	91%
Water Heater Pipe Wrap	1	70	71	101%	0.0	0.0	101%
Total	**3,043**	**9,924,588**	**9,765,129**	**98%**	**2,828.8**	**2,889.6**	**102%**

Figure 4-3 shows the MWh savings and kW savings by measure. Air infiltration, duct sealing, and attic insulation made up 95% of evaluated energy savings and 77% of demand savings. These measures' realization rates inherently drive the overall realization rate.

Figure 4-3 WRAP Claimed and Evaluated Savings by Measure

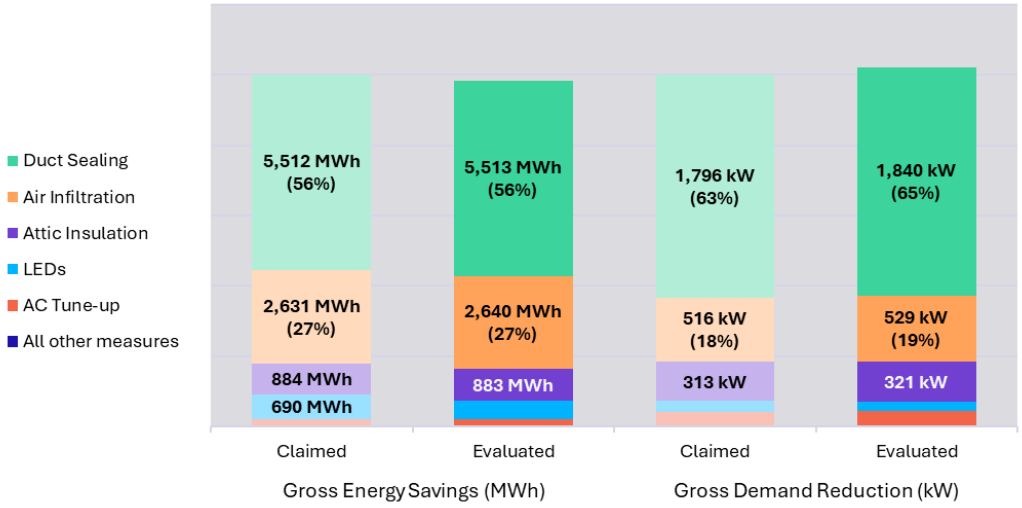


Table 4-7 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Duct sealing contributed the most to the channel's lifetime savings.

Table 4-7 WRAP Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
AC Tune-up	5.0	960,087
Air Infiltration	11.0	29,045,109
Attic Insulation	20.0	17,664,678
Duct Sealing	18.0	99,228,362
ENERGY STAR Ceiling Fan	10.0	24,282
ENERGY STAR Window	10.0	106,267
LEDs	12.5	6,545,001
Water Heater Pipe Wrap	13.0	926
Total	**15.7**	**153,574,712**

WRAP – Process Evaluation

Evaluation Approach. As summarized in Table 4-8, AEG interviewed OG&E and Skyline program managers. The focus of the process evaluation activities was to understand operations, assess overall effectiveness, and identify areas for improvement.

Table 4-8 WRAP Process Evaluation Activities

Program	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/ Interview	Cycle Time Analysis
WRAP	✓	✓			

Program Performance. Table 4-9 shows how WRAP performance changed from PY2023 to PY2024. Claimed energy savings decreased by 24% and demand reduction decreased by 14%.

Table 4-9 WRAP Claimed Savings – PY2023 v. PY2024

Claimed Savings	PY2023	PY2024	% Difference
Energy (kWh)	13,046,111	9,924,588	-24%
Demand (kW)	3,287.5	2,828.8	-14%

Channel Operations. WRAP conducts assessments and installs energy-efficient measures for income-qualified customers at no cost. OG&E markets the program through mail, bill inserts, email blasts, and social media. Interested customers call OG&E's customer service center or sign up online, which kicks off the WRAP participation process described in the box to the right. Skyline enters data collected into EnerTrek, a demand side management (DSM) program tracking software system. WRAP launched the Repair-to-Qualify (RTQ) initiative in PY2022 to reduce the disqualification rate and increase participation. WRAP has a historical 50% disqualification rate, 25% are due to minor repairs. This initiative covers the cost of minor repairs needed to qualify a home for the current WRAP program. The repairs may include flue repairs, roof flashing, HVAC, and health and safety repairs.

WRAP Customer Participation Process

- Customer contacts OG&E or signs up online.
- Skyline contacts customer to prequalify home.
- Skyline conducts energy assessment of qualified homes.
- Skyline provides customer with measure recommendations.
- TA installs measures at no cost.
- Customer receives 12-month to-do list of energy saving tips/habits.

Program Successes. WRAP remained consistent since PY2023, with the tune-up component running smoothly. The working relationship between OG&E and Skyline is well-established and highly collaborative, with no significant disconnects. The partnership has been in place for 14 years, and OG&E provides strong support, ensuring that the necessary information is readily available to implement WRAP effectively. Overall, WRAP participants have provided positive feedback to the implementation team, occasionally sending letters expressing their satisfaction.

Program Challenges. The implementer identified the following barriers to customer participation:

- **Overlap with RSOL.** According to the program manager, there have been situations where WRAP and the RSOL channel within HEEP are providing services to the same home. This can be confusing for customers. OG&E has taken steps to improve this process in the next cycle. Customers will be assigned to RSOL or WRAP based on the information they provide when they go online to enroll for services.
- **Limited budget for RTQ.** The RTQ program budget was cut in PY2024 and only 35% of eligible customers were able to get services through the program. The average cost of a repair is $600.
- **Lower participation rates.** At the time AEG interviewed OG&E and Skyline, the program was 500 homes behind its participation goal, resulting in a 24% savings decrease and a 14% demand decrease compared to PY2023.

Mail campaigns generate the highest customer response, but there has been a decline in leads this year. A good response rate is 6% and they have been seeing closer to a 3% response. One of the main barriers to customer participation in WRAP is a lack of education about the program. Initially, saturation was thought to be a factor, but efforts have been made to re-contact customers whose homes were weatherized more than 10 years ago. There has also been a slight increase in outreach within the Hispanic community and collaborations with local housing authorities to expand participation.

Program Opportunities. Demand response is an option that may be pursued in the next cycle. Expanding the RTQ component is another opportunity for program growth.

5 | COMMERCIAL ENERGY EFFICIENCY PROGRAM (CEEP)

The Commercial Energy Efficiency Program (CEEP) is an umbrella-style program approach designed to address the needs of OG&E's commercial and industrial customer base. Specifically, the program provides a variety of participation channels for all Commercial and Industrial (C&I) customers to participate through targeted paths that address various unique participation barriers and technology challenges. CEEP consists of eight delivery channels:

- Commercial and Industrial Solutions (CIS)
- Schools and Government Efficiency (SAGE)
- Small Business Direct Install (SBDI)
- Small Business Midstream (Midstream)
- HVAC Replacement and Tune-Up (C&I HVAC)
- Continuous Energy Improvement (CEI)

We provide detailed descriptions of each channel in each corresponding subsection.

CEEP – Key Evaluation Findings

The impact evaluation established CEEP evaluated gross energy savings of 137,792,395 kWh and evaluated gross demand savings of 20,548 kW, which amount to realization rates of 99% and 100%, respectively. CEEP achieved 112% of net energy savings goals and 80% of net demand reduction goals.

Table 5-1 provides a summary of the CEEP impact evaluation findings.

Table 5-1 CEEP Impact Evaluation Summary

Savings	Gross Savings			Net Savings				
	Claimed	Evaluated	RR	Goal	Evaluated	% of Goal	NTG	Lifetime
Energy (kWh)	139,506,724	137,792,395	99%	121,046,890	136,002,763	112%	99%	1,290,248,046
Demand (kW)	20,544.2	20,548.2	100%	25,152.0	20,068.1	80%	98%	n/a

Table 5-2 and Table 5-3 provide the corresponding channel-level summaries of the evaluated energy and demand savings.

Table 5-2 CEEP Energy Savings by Channel

Channel	Gross Energy Savings (kWh)			Net Energy Savings (kWh)		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
CIS	59,054,814	56,909,472	96%	56,340,377	99%	593,104,789
SAGE	7,721,671	7,971,031	103%	7,891,321	99%	115,966,963
SBDI	4,951,177	4,950,511	100%	4,950,511	100%	62,714,216
Midstream	31,624,311	31,929,122	101%	31,290,539	98%	442,250,200
CEI	31,009,807	31,009,807	100%	31,009,807	100%	31,009,807
C&I HVAC	5,144,944	5,022,452	98%	4,520,207	90%	45,202,072
Total CEEP	**139,506,724**	**137,792,395**	**99%**	**136,002,763**	**99%**	**1,290,248,046**

Table 5-3 CEEP Demand Reduction by Channel

Channel	Gross Demand Reduction (kW)			Net Demand Reduction (kW)	
	Claimed	Evaluated	RR	Evaluated	NTG
CIS	6,972.4	6,715.0	96%	6,647.8	99%
SAGE	1,300.3	1,317.8	101%	1,304.6	99%
SBDI	786.3	784.0	100%	784.0	100%
Midstream	5,469.4	5,776.9	106%	5,661.3	98%
CEI	3,112.6	3,112.6	100%	3,112.6	100%
C&I HVAC	2,903.1	2,841.9	98%	2,557.7	90%
Total CEEP	**20,544.2**	**20,548.2**	**100%**	**20,068.1**	**98%**

Figure 5-1 and Figure 5-2 show the CEEP channel distribution of energy savings and demand reductions, respectively. Notably, CIS, Midstream, and CEI contributed the most to CEEP gross evaluated energy savings (87%) and demand reductions (76%).

Figure 5-1 CEEP Energy Savings Summary

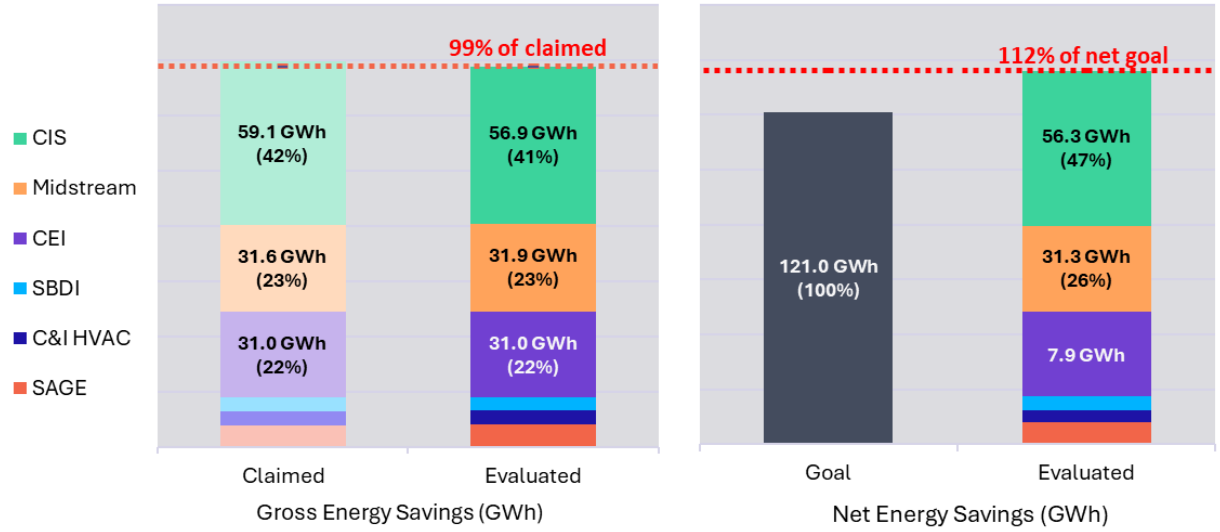
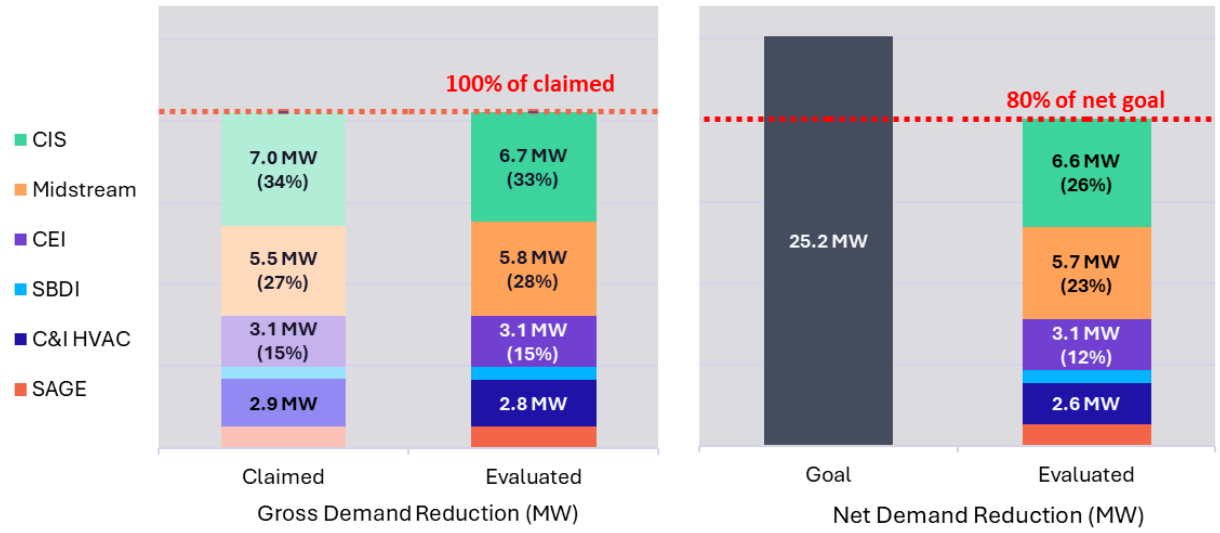


Figure 5-2 CEEP Demand Reduction Summary



CEEP – Evaluation Methods

Impact Evaluation Approach. Table 5-4 summarizes the impact evaluation activities conducted to determine evaluated savings.[10]

Table 5-4 CEEP Impact Evaluation Activities

Channel	Savings Replication	Desk Review	Savings Verification	NTG Ratio Update	Benefit-Cost Analysis
C&I Solutions	✓	✓	✓+		✓
SAGE	✓	✓	✓+		✓
SBDI	✓	✓	✓+		✓
Midstream		✓			✓
CEI		✓			✓
C&I HVAC	✓	✓	✓+	✓	✓

+ site visits were performed for additional verification

C&I projects often require individualized savings calculation workbooks that are not integrated into the program tracking database. The amount of project information entered into the database varies channel by channel and measure by measure. As such, each channel has a unique array of measures for which savings could be replicated; for example, savings could be replicated for all C&I HVAC measures, some SBDI measures, and no Midstream measures. Where savings replication was possible, all claimed savings were replicated using the AR TRM unless noted otherwise.

AEG used a stratified random sample for desk reviews and site visits. We generally stratified participation by path (i.e., custom or prescriptive), measure type, and claimed savings. We also defined the sample frame unit as a project.[11]

To estimate net evaluated savings, we used the results from the NTG analysis in PY2023 for the CIS, SAGE, Midstream, and C&I HVAC channels and PY2021 and PY2022 NTG results for the remaining channels.

[10] We include detailed descriptions of each impact evaluation activity in Appendix A.
[11] We include detailed descriptions of the sample design in Appendix B.

Process Evaluation Approach. Table 5-5 summarizes the process evaluation activities conducted to determine evaluated savings.[12]

Table 5-5 CEEP Process Evaluation Activities

Channel	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/Interview	Cycle Time Analysis
C&I HVAC	✓	✓	✓		✓
CEI	✓	✓			✓
CIS	✓	✓	✓		✓
Midstream	✓	✓	✓	✓	
SAGE	✓	✓	✓		
SBDI	✓	✓	✓		✓

AEG designed the process evaluation to examine both internal program processes and participant response to CEEP. The focus of the process evaluation activities was to understand operations, assess overall effectiveness, and identify areas for improvement. We performed the following activities:

- AEG conducted separate, comprehensive **interviews with the OG&E program manager, the appropriate channel implementer, and participating Trade Allies** to gather their impressions of the program/channel's implementation activities, performance, delivery issues, and opportunities for improvements.
- AEG administered **participant surveys** for SBDI. AEG conducts participant surveys for each channel once during the 3-year program cycle.

Commercial and Industrial Solutions (CIS)

The CIS channel primarily targets customers with single sites with a demand exceeding 150 kW or multiple sites with a combined demand exceeding 250 kW. The channel offers in-person and virtual assessments paired with direct installation of low-cost EE measures plus a prescriptive and custom path to encourage the adoption of additional measures.

- The **prescriptive path** provides inducements based on the deemed energy savings achieved with the measures installed. Inducements are performance-based and start at $0.09 per kWh saved, depending on the measure type. Prescriptive projects have an inducement cap of 50% of project cost.
- The **custom path** allows participants to achieve their specific EE goals by proposing measures and projects that may be outside of the deemed measure list. Proposed measures are evaluated for savings and costs, and the inducement is approved if the project is considered cost-effective. Performance-based inducements are $0.11 per kWh saved and have an inducement cap of 70% of total project cost.

CIS – Key Evaluation Findings

The **impact evaluation** established CIS evaluated gross energy savings of 56,909,472 kWh and evaluated gross demand savings of 6,715 kW, which amount to realization rates of 96% each. Table 5-6 summarizes the CIS impact evaluation findings and includes savings from the prescriptive and custom paths.

[12] We include detailed descriptions of each process evaluation activity in Appendix A.

Table 5-6 CIS Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	59,054,814	56,909,472	96%	56,340,377	99%	593,104,789
Demand (kW)	6,972.4	6,715.0	96%	6,647.8	99%	n/a

The **impact evaluation** produced the following key findings:

- For sampled desk review and site visit projects, **AEG found that the tracking database and documentation were generally consistent** and only made small changes to energy savings based on minor observed or recorded differences in project characteristics. The types of changes made are common for desk reviews and site visits, such as updating quantities to reflect the verified number of installed lighting fixtures, changing LED wattages according to spec sheets or DesignLights Consortium (DLC) QPL data, and adjusting annual hours of use based on the customer's hours of operation.

The **process evaluation** produced the following key findings:

- **Improved coordination** among the OG&E program manager, Community Affair Managers (CAMs), and account executives (AEs) is one of the **secrets to this channel's success**.
- CLEAResult's **strong relationship** with the horticulture industry was another key driver of success.
- Main program barriers include **funds running out** before the program year ends and replacing savings in the future from the expected lower number of horticulture lighting projects.
- Compared to PY2024, both the average number of days **were much longer** from enrollment to installation (164 days on average, up from 87) and from installation to payment (86 days, up from 41).

CIS – Recommendations

The **impact evaluation recommendations** are as follows:

- **Review, compare, and verify post-installation operational and dimming schedules for horticulture lighting projects.** CLEAResult used lighting operational and dimming schedules that were developed during the pre-installation stage of the project to calculate reported savings. When AEG conducted post-installation site visits for a sample of projects to verify the parameters used in the savings calculations, we found several projects had implemented different operational and/or dimming schedules.

The **process evaluation recommendations** are as follows:

- Allow contractors who have **letters of authorization** with customers to **sign final documents** on their behalf.
- **Communicate clearly about how lack of funding affects the next program year**. Both customers and contractors need to understand if unfunded PY2024 projects are still eligible for funding and how much funding (if any) is available for the next program year.

CIS – Impact Evaluation

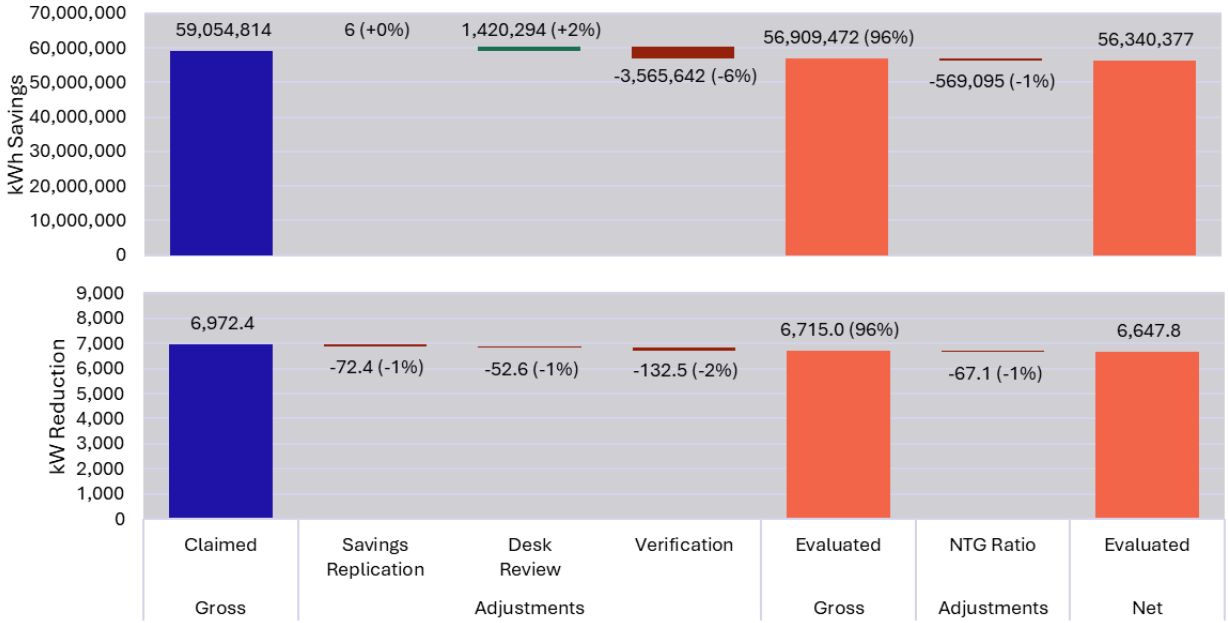
Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted savings replication, desk reviews, and savings verification to evaluate savings. AEG used a stratified random sample for desk reviews and site visits. We defined the sample frame unit as one project and stratified the participant population according to the following criteria:

- **Path (i.e., custom or prescriptive)**, which stratifies projects by evaluation methodology. Custom projects use custom calculations while prescriptive projects use deemed savings from the AR TRM.
- **Measure type**, which stratifies projects by measure, ensuring that sampled findings logically extrapolate to the population. In conjunction with path, measure categories include custom horticulture lighting, custom non-lighting, prescriptive lighting, and prescriptive non-lighting.

- **Project size**, which stratifies projects by claimed savings size. AEG selected a census of, and conducted desk reviews and site visits for, the channel's largest prescriptive and custom projects.

Evaluation Adjustments. Figure 5-3 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 5-3 CIS Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 100% for energy and 99% for demand relative to claimed savings. AEG made the following changes to claimed savings:
  - **Retrofit lighting.** AEG calculated lower demand reduction using the AR TRM for several projects. The source of discrepancy was unclear.
  - AEG did not replicate savings for custom projects or measures/projects for which there was not enough data.
- **Desk Review.** Desk reviews yielded realization rates of 102% for energy and 99% for demand relative to savings replication results. AEG identified the following differences between project documentation and inputs provided by the tracking database and AR TRM:
  - **Horticulture lighting.** AEG corrected coincidence factors (CFs) according to the AR TRM for several projects. These revisions lowered demand reductions.
  - **Retrofit lighting.** AEG corrected CFs according to the AR TRM for several projects. These revisions lowered demand reductions.
  - **Unitary heat pumps.** AEG corrected the baseline efficiency to correspond with the size of the installed unit for one project, which reduced energy savings.
  - **Weatherstripping.** AEG corrected the gap size for one project, which increased energy savings.
- **Savings Verification.** AEG conducted site visits to verify project information, which produced realization rates of 94% for energy and 98% for demand relative to desk review results. AEG identified the following differences that arose from site visits:
  - **Horticulture lighting.** For several custom projects, AEG found that the participant did not operate the installed LED fixtures according to the operating schedule and/or dimming schedule documented by CLEAResult. In some cases, the participant did not install dimming of the fixtures at all. Adjustments to reflect these findings decreased energy savings overall.
- **Net-to-Gross.** AEG applied the updated NTG ratio (99%) from the PY2023 evaluation.

Stratum-Level Findings. Table 5-7 and

Path	Stratum	Projects	Gross Energy Savings (kWh)				90% Confidence	
			Sample	Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Custom	Horticulture Lighting - Largest	2	2	9,603,598	9,586,539	100%	0	0.0%
	Horticulture Lighting - Other	49	20	34,824,249	32,200,928	92%	2,578,566	8.0%
	Non-Lighting - Largest	4	3	2,791,991	3,369,920	121%	403,780	12.0%
	Non-Lighting - Other	35	5	4,818,980	4,820,253	100%	471	0.0%
Prescriptive	Lighting - Largest	6	6	3,423,167	3,333,913	97%	0	0.0%
	Lighting - Other	43	4	3,179,124	3,179,695	100%	7,707	0.2%
	Non-Lighting	17	4	413,705	418,224	101%	14,615	3.5%
Total		**156**	**44**	**59,054,814**	**56,909,472**	**96%**	**2,610,041**	**4.6%**

Table 5-8 5-8 show evaluated energy savings and demand reduction. Overall, we estimate relative precision of 4.6% (kWh) and 4.6% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 5-7 CIS Evaluated Energy Savings by Stratum

Path	Stratum	Projects	Gross Energy Savings (kWh)				90% Confidence	
			Sample	Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Custom	Horticulture Lighting - Largest	2	2	9,603,598	9,586,539	100%	0	0.0%
	Horticulture Lighting - Other	49	20	34,824,249	32,200,928	92%	2,578,566	8.0%
	Non-Lighting - Largest	4	3	2,791,991	3,369,920	121%	403,780	12.0%
	Non-Lighting - Other	35	5	4,818,980	4,820,253	100%	471	0.0%
Prescriptive	Lighting - Largest	6	6	3,423,167	3,333,913	97%	0	0.0%
	Lighting - Other	43	4	3,179,124	3,179,695	100%	7,707	0.2%
	Non-Lighting	17	4	413,705	418,224	101%	14,615	3.5%
Total		**156**	**44**	**59,054,814**	**56,909,472**	**96%**	**2,610,041**	**4.6%**

Table 5-8 CIS Evaluated Demand Reduction by Stratum

Path	Stratum	Projects	Gross Demand Reduction (kW)				90% Confidence	
			Sample	Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Custom	Horticulture Lighting - Largest	2	2	968.6	968.6	100%	0.2	0.0%
	Horticulture Lighting - Other	49	20	4,275.0	3,997.1	93%	293.0	7.3%
	Non-Lighting - Largest	4	3	318.7	374.8	118%	78.4	20.9%
	Non-Lighting - Other	35	5	461.9	461.9	100%	0.0	0.0%
Prescriptive	Lighting - Largest	6	6	364.3	358.7	98%	51.9	14.5%
	Lighting - Other	43	4	529.8	498.2	94%	6.0	1.2%
	Non-Lighting	17	4	54.1	55.6	103%	3.1	5.5%
Total		**156**	**44**	**6,972.4**	**6,715.0**	**96%**	**307.8**	**4.6%**

Figure 5-4 shows the CIS energy savings by stratum. Custom projects made up nearly 80% of total evaluated gross energy savings.

Figure 5-4 CIS Claimed and Evaluated Savings by Stratum

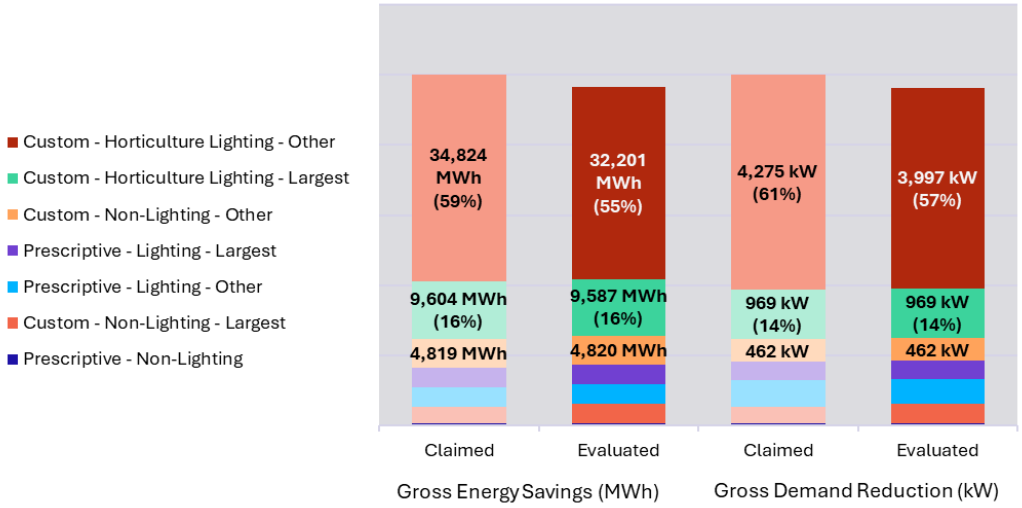


Table 5-9 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Horticulture lighting contributed the majority of the channel's lifetime net energy savings.

Table 5-9 CIS Net Lifetime Energy Savings by Stratum

Path	Stratum	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Custom	Horticulture Lighting - Largest	9.9	93,977,999
	Horticulture Lighting - Other	9.9	315,669,569
	Non-Lighting - Largest	11.0	36,698,425
	Non-Lighting - Other	10.9	51,978,852
Prescriptive	Lighting - Largest	14.2	46,918,293
	Lighting - Other	14.2	44,747,984
	Non-Lighting	7.5	3,113,666
Total		**10.5**	**593,104,789**

CIS – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers as well as TAs (n=5 of 25 participating).

Program Performance. Table 5-10 shows how CIS performance changed from PY2023 to PY2024. Claimed energy savings increased by 17% and demand reduction increased by 33%. CIS made the largest contributions to CEEP (42% of energy savings and 34% of demand reduction) and to the overall portfolio.

Table 5-10 CIS Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	50,483,966	38%	59,054,814	42%	+17%
Demand (kW)	5,241.6	26%	6,972.4	34%	+33%

Channel Operations. CIS primarily targets customers with single sites with a demand exceeding 150 kW or multiple sites with a combined demand exceeding 250 kW. The channel offers in-person and virtual assessments paired with direct installation of low-cost energy efficiency measures and prescriptive and custom paths for customers to participate in the channel.

- **The prescriptive path** provides inducements based on the deemed energy savings achieved with the measures installed. Inducements are performance-based and start at $0.09 per kWh saved, depending on the measure type. Projects under the prescriptive path have an inducement cap of 50% of the project cost.
- **The custom path** allows participants to achieve their specific energy efficiency goals by proposing measures and projects that may be outside of the deemed measure list. Proposed measures are evaluated for savings and costs, and the inducement is approved if the project is considered cost-effective. Performance-based inducements are $0.11 per kWh saved and have an inducement cap of 70% of the total project cost.

CIS Customer Participation Process

- Initial customer visit: channel explained with a focus on reducing operating costs.
- TA conducts no-obligation no-cost audit.
- Project proposal, including available inducement, presented to customer.
- Customer signs participation agreement.
- TA submits program documentation through online portal.
- CLEAResult approves project, conducts pre-inspection.
- TA completes project.
- CLEAResult conducts post-inspection.
- Inducement paid to TA.

One reason CIS performs so well is the OG&E program manager created a meeting with CLEAResult's commercial implementation team, the Community Affair Managers (CAMs), and the AEs. The team created a master list of customers that is initially generated by the CAMs, checked by the OG&E PM, and then provided to CLEAResult, who reaches out to the customer. In the past, when CAMs would provide CLEAResult's phone number to the customer, half would never call. Being proactive and reaching out to the customer directly has been much more effective in generating participation.

CLEAResult has also had great success with horticulture lighting. Their field team has developed a strong relationship with the horticulture industry. They attended a horticulture conference to market the program, and an avalanche of projects resulted through word of mouth. The number of horticulture projects is expected to decrease, however. State legislation is not approving any more cannabis grow licenses, and it is getting more difficult for growers to get occupancy permits at the local level.

Barriers to Participation. The main barriers to participating consist of running out of channel funds before the program year ends and replacing savings from the expected lower number of horticulture lighting projects. The program ran out of inducement funds in September. Due to the funds being used up so quickly, several projects are on hold, and there is confusion regarding which project rebates will be honored. TAs often reduce their project bids by their expected inducement amounts, and now they may not be reimbursed for up to a year.

> *"In 2025, the channel is going to run out money before it even starts."*

Channel Effectiveness. TAs think the program influences both the timing and the size of the projects. Rebated projects are completed sooner and involve a larger quantity of measures.

TAs say the channel is good for their business. Customers like it, and they get a lot of repeat customers as a result of their participation.

Channel Satisfaction. The TAs interviewed are satisfied with the channel and spoke very highly of their relationship with CLEAResult. Some TAs experienced issues with the contractor portal, describing it as "hit or miss." The address input field in the portal does not always work correctly and there can be issues with uploading documents. TAs would also like to be able to use the signed Letter of Authorization (LOA) they obtain from participants and sign final documents on their behalf.

Some TAs also said they would like to interact more frequently with engineers and know more about how rebates are calculated. When this result was shared with CLEAResult staff, however, they said these types of questions are often red flags for contractors trying to game the system.

Cycle Time Analysis. AEG conducted a cycle time analysis on 125 CIS projects with valid dates in the program tracking database to explore the time it takes from initial customer contact to measure installation to inducement distribution. Figure 5-5 shows the time from enrollment to installation for CIS projects. **The average number of days from enrollment to installation for the projects was 164** (a significant increase from 87 days last year).

Figure 5-5 CIS Number of Days from Enrollment to Installation

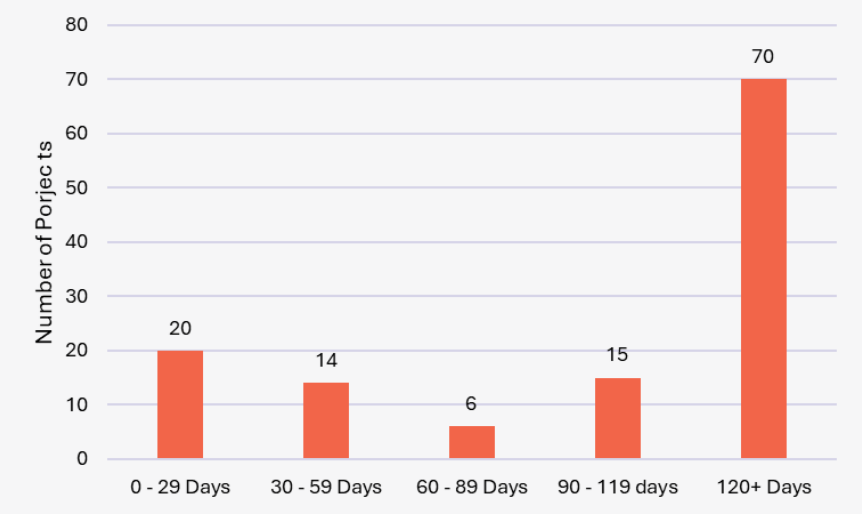
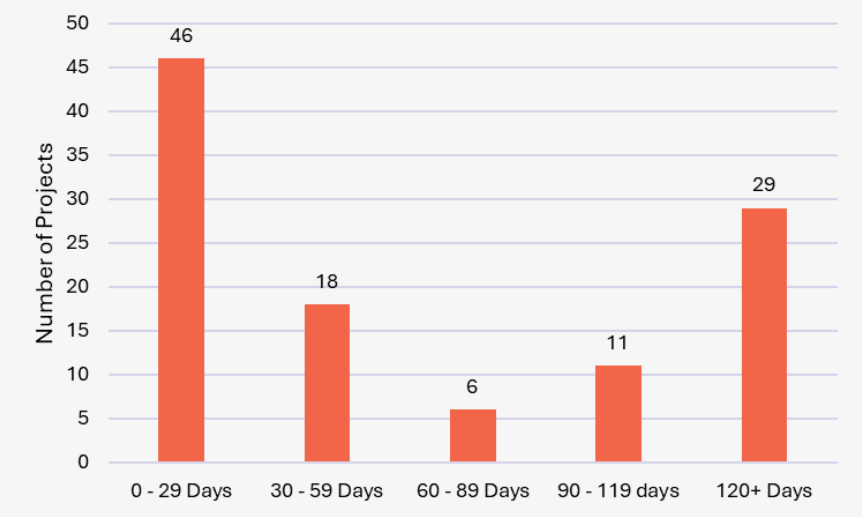


Figure 5-6 shows the time from installation to payment for 110 CIS projects with valid dates in the program tracking database. **The average number of days from installation for payment for the projects was 86 days** (up from 41 days last year). Inducements were delivered within 30 days for 42% of projects, but more than a quarter of projects took 120 days or longer.

Figure 5-6 CIS Number of Days from Installation to Payment



Schools and Government Efficiency (SAGE)

The SAGE channel offers EE inducements for educational and publicly funded facilities to overcome barriers to energy improvement that are unique to their market segment, such as conflicting organizational goals, outdated specifications, limited technical knowledge, and counterproductive energy budgeting. Performance-based inducements are $0.14 per kWh saved and have a cap of 90% of the total project cost.

SAGE – Key Evaluation Findings

The **impact evaluation** established SAGE evaluated gross energy savings of 7,971,031 kWh and evaluated gross demand savings of 1,318 kW, which amount to realization rates of 103% and 101%, respectively. Table 5-11 provides a summary of the SAGE impact evaluation findings.

Table 5-11 SAGE Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	7,721,671	7,971,031	103%	7,891,321	99%	115,966,963
Demand (kW)	1,300.3	1,317.8	101%	1,304.6	99%	n/a

The **impact evaluation** produced the following key findings:

- For sampled desk review and site visit projects, **AEG found that the tracking database and documentation were generally consistent** and only made small changes to energy savings based on minor observed or recorded differences in project characteristics. The types of changes we made are common for desk reviews and site visits, such as updating quantities to reflect the verified number of installed lighting fixtures, changing LED wattages according to spec sheets or DLC data, and adjusting annual hours of use based on the customer's hours of operation.

The **process evaluation** produced the following key findings:

- The TAs feel that **most of the SAGE projects would not happen** if the channel was not available.
- TAs would like to see the **application process streamlined**.

SAGE – Recommendations

The **impact evaluation recommendations** are as follows:

- Ensure lighting equipment wattage and equipment quantities used in savings calculations align with project documentation such as specification sheets and invoices.

The **process evaluation recommendations** are as follows:

- Streamline the application process by **keeping basic information about repeat customers in the system**. This would allow TAs to add new projects to existing participants without having to reenter all the information.

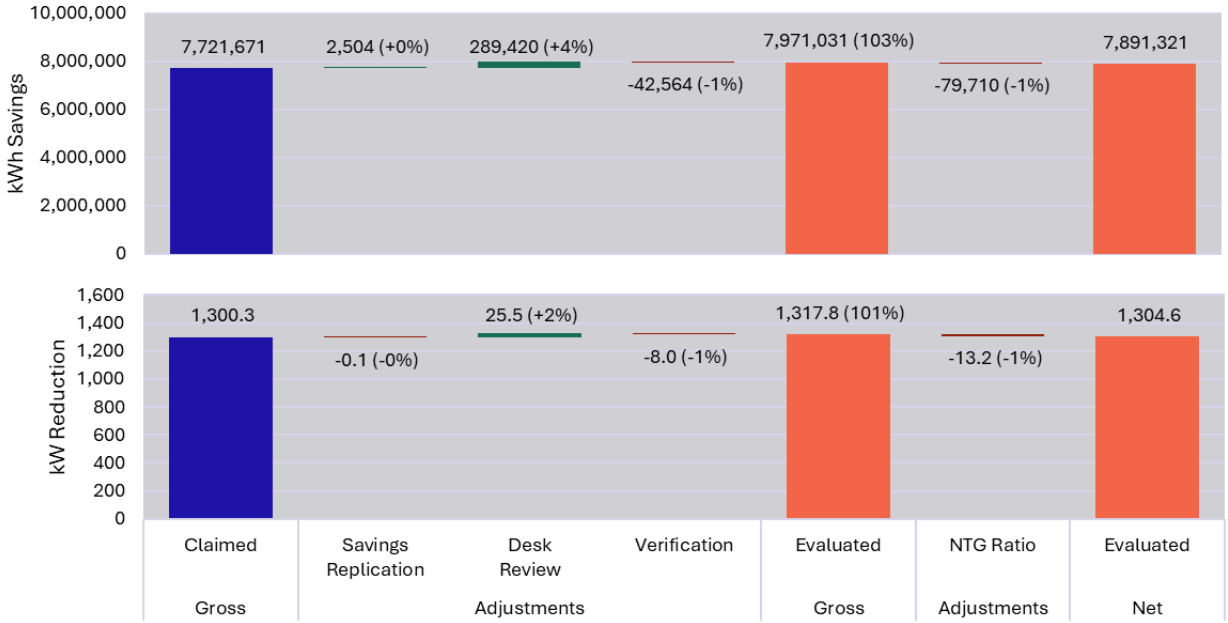
SAGE – Impact Evaluation

Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted savings replication, desk reviews, and savings verification to evaluate savings. AEG used a stratified random sample for desk reviews and site visits. We defined the sample frame unit as one project and stratified the participant population according to the following criteria:

- **Measure type**, which stratifies projects by measure, ensuring that sampled findings logically extrapolate to the population. Measure categories consist of lighting and non-lighting.
- **Project size**, which stratifies projects by claimed savings size. AEG selected a census of, and conducted desk reviews and site visits for, the channel's largest projects.

Evaluation Adjustments. Figure 5-7 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 5-7 SAGE Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 100% for energy and 100% for demand relative to claimed savings. AEG made the following changes to claimed savings:
  - **Retrofit lighting.** Several projects calculated energy savings correctly but demand reduction incorrectly. Our corrections lowered demand reduction negligibly.
  - AEG did not replicate savings for custom projects or measures/projects for which there was not enough data.
- **Desk Review.** Desk reviews yielded realization rates of 104% for energy and 102% for demand relative to savings replication results. AEG identified the following differences between project documentation and inputs provided by the tracking database and AR TRM:
  - **New Construction lighting.** Of two sampled projects, one appeared to have incorrect or outdated savings values for nearly all line items. The project's custom savings workbook reported claimed savings much higher than what was shown in the program data, and our savings calculations aligned much more closely with the project's workbook. AEG only updated wattages according to DLC's database or model spec sheets, but the adjustments resulted in an artificially high realization rate.
  - **Retrofit lighting.** AEG updated wattages according to DLC's database or model spec sheets. These revisions reduced energy savings negligibly.
  - **Unitary heat pump.** One project appeared to have omitted a line item that otherwise appears in the project's custom savings workbook. The inclusion of the missing kW increased demand reduction negligibly.
- **Savings Verification.** AEG conducted site visits to verify project information, which produced realization rates of 99% for both energy and demand relative to desk review results. AEG identified the following differences that arose from site visits:
  - **Retrofit lighting.** AEG updated quantities to capture fixtures that had burned out or been uninstalled since the project's completion, which slightly lowered energy savings.
- **Net-to-Gross.** AEG applied the updated NTG ratio (99%) from the PY2023 evaluation.

Stratum-Level Findings. Table 5-12 and Table 5-13 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 2.3% (kWh) and 1.9% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 5-12 SAGE Evaluated Energy Savings by Stratum

Stratum	Projects	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - Largest	4	4	1,841,848	1,799,745	98%	0	0.0%
Lighting - All Other	77	6	4,973,183	5,257,731	106%	181,601	3.5%
Non-Lighting - Largest	1	1	390,991	390,991	100%	0	0.0%
Non-Lighting - All Other	43	6	515,649	522,564	101%	4,223	0.8%
Total	**125**	**17**	**7,721,671**	**7,971,031**	**103%**	**181,650**	**2.3%**

Table 5-13 SAGE Evaluated Demand Reduction by Stratum

Stratum	Projects	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - Largest	4	4	346.4	338.4	98%	10.1	3.0%
Lighting - All Other	77	6	828.5	847.7	102%	0.0	0.0%
Non-Lighting - Largest	1	1	19.0	19.0	100%	0.2	1.2%
Non-Lighting - All Other	43	6	106.4	112.7	106%	0.0	0.0%
Total	**125**	**17**	**1,300.3**	**1,317.8**	**101%**	**25.3**	**1.9%**

Figure 5-8 shows the SAGE energy and demand savings distribution by stratum. Lighting comprised 91% of gross evaluated energy savings and demand reduction, down from 99% and 93% (respectively) in PY2023.

Figure 5-8 SAGE Claimed and Evaluated Savings by Stratum

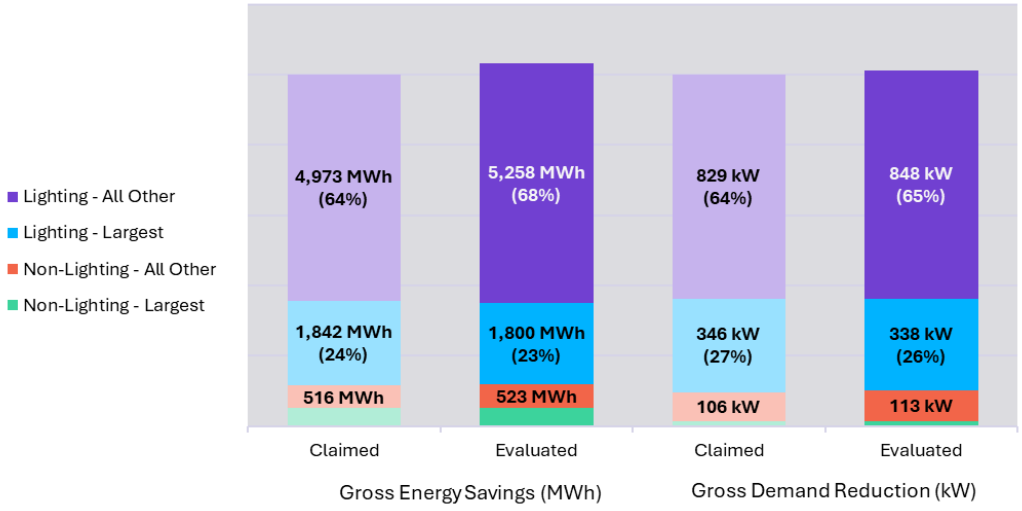


Table 5-14 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Lighting measures contributed the majority of the channel's lifetime savings.

Table 5-14 SAGE Net Lifetime Energy Savings by Stratum

Stratum	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Lighting - Largest	14.7	26,120,679
Lighting - All Other	14.4	74,748,200
Non-Lighting - Largest	20.0	7,741,614
Non-Lighting - All Other	14.2	7,356,470
Total	**14.7**	**115,966,963**

SAGE – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers as well as TAs (n=2 of 3 participating).

Program Performance. Table 5-15 shows how SAGE performance changed from PY2023 to PY2024. Claimed energy savings increased by 40% and demand reduction increased by 46%. SAGE made modest contributions to CEEP, representing 6% of both energy savings and demand reduction.

Table 5-15 SAGE Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	5,537,850	4%	7,721,671	6%	+40%
Demand (kW)	889.0	4%	1,300.3	6%	+46%

Channel Operations. SAGE largely mirrors CIS, with inducements set at a larger amount per kWh and a higher cap on total project costs. The target market for the channel is schools, local government buildings, and some non-profit organizations. Most projects involve prescriptive lighting measures in schools, but CLEAResult hopes to achieve more portfolio diversity by making a big push for custom chiller and retro-commissioning projects in schools and hospitals.

Barriers to Participation. The decision-making process for SAGE participants has more bureaucracy, which results in a longer sales cycle. When schools and governments want to complete a project in excess of $50,000, it is required to go out to bid. This can cause projects delays.

SAGE Customer Participation Process

- Initial customer visit: program is explained with a focus on reducing operating costs.
- TA conducts no-obligation no-cost audits.
- Project proposal presented to customer including available inducement.
- Customer signs participation agreement.
- TA submits program documentation through the online portal.
- CLEAResult approves project and conducts pre-inspection. Projects under 50 MWh receive either a pre- or post-inspection but not both.
- TA completes project.
- CLEAResult conducts post-inspection.
- Inducement paid to TA.

Channel Effectiveness. TAs think most SAGE projects would not happen if the channel was not available.

> *"Honestly about three-quarters of the projects would not be completed without the rebate."*

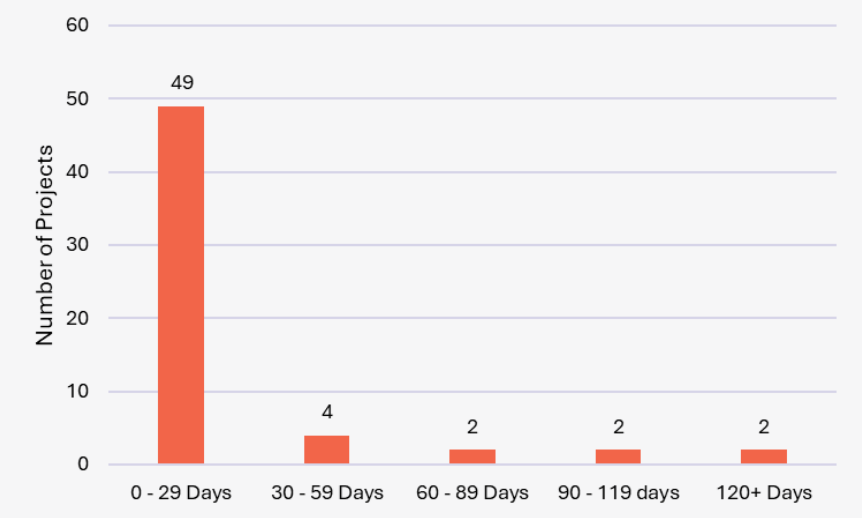
Channel Satisfaction. TAs enjoy working with CLEAResult and find its staff very helpful, although implementer staff turnover has been an issue. TAs would like to see the application process streamlined so they do not have to submit multiple times the same information for customers completing multiple projects. They also feel that information regarding when to provide which documents could be clearer since there are several steps and lots of documentation required.

> *"CLEAResult staff is fantastic to work with."*

When asked for recommendations for improvement, TAs said they would like to have OG&E shirts or name tags to help lend credibility when they approach new customers.

Cycle Time Analysis. AEG conducted a cycle time analysis on 59 SAGE projects with valid dates in the program tracking database to explore the time it takes from initial customer contact to measure installation to inducement distribution. Figure 5-9 shows the time from installation to payment for SAGE projects. **The average number of days from enrollment to installation for the projects was 22.**

Figure 5-9 SAGE Number of Days from Installation to Payment



Small Business Direct Install (SBDI)

The SBDI channel is targeted at OG&E small business customers with an annual peak demand under 200 kW or multiple locations with a combined peak demand under 250 kW. The channel drives participation through an extensive contractor network. Contractors provide facility walk-throughs and inducements for prescriptive EE measures. SBDI participants are also eligible to participate in the CIS channel if the customer's needs are beyond the scope of services outlined within this channel. Inducements are $0.20 per kWh saved except for refrigerator door gaskets, which have inducements of $0.12 per kWh saved. All inducements are capped at 90% of the project cost.

SBDI – Key Evaluation Findings

The **impact evaluation** established SBDI evaluated gross energy savings of 4,950,511 kWh and evaluated gross demand savings of 784 kW, which amount to realization rates of slightly less than 100%. Table 5-16 provides a summary of the SBDI impact evaluation findings.

Table 5-16 SBDI Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	4,951,177	4,950,511	100%	4,950,511	100%	62,714,216
Demand (kW)	786.3	784.0	100%	784.0	100%	n/a

The **impact evaluation** produced the following key findings:

- For sampled desk review and site visit projects, **AEG found that the tracking database and documentation were generally consistent** and only made small changes to energy savings based on minor observed or recorded differences in project characteristics. The types of changes made are common for desk reviews and site visits, such as updating quantities to account for LEDs placed into storage, changing LED wattages according to spec sheets or DLC data, and adjusting annual hours of use based on the customer's hours of operation.

The **process evaluation** produced the following key findings:

- CLEAResult introduced **a desktop application** for TAs to enter customer assessments, which has been very well-received.
- **Uncertainty about the economy and inflation** among business owners are the main barriers to participation.
- TAs feel that projects **would be much more piecemeal** without SBDI.
- Participants are **very satisfied** with the program giving all aspects of the program high ratings.

SBDI – Recommendations

The **process evaluation recommendations** are listed below. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * **Consider more targeted marketing**. Opportunities may exist in specific segments such as grocery stores. Marketing collateral geared towards specific segments would help TAs in their outreach to these segments.
- * **Consider offering low- or no-interest financing** to customers. Small businesses often do not have the capital to complete projects.

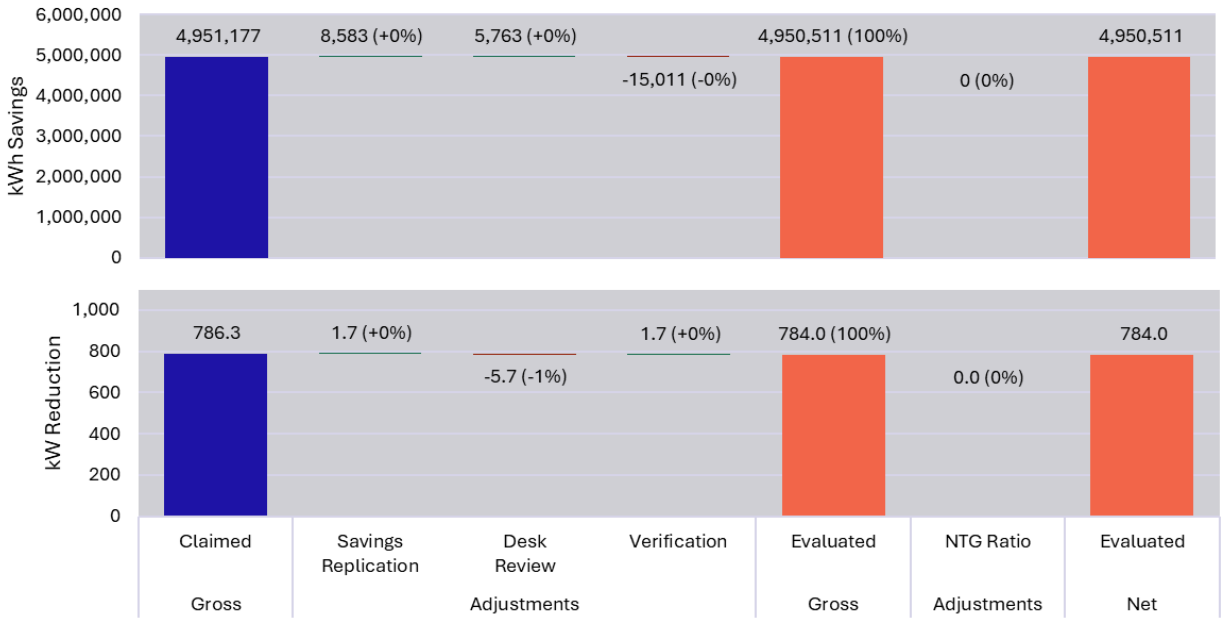
SBDI – Impact Evaluation

Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted savings replication, desk reviews, and savings verification to evaluate savings. AEG used a stratified random sample for desk reviews and site visits. We defined the sample frame unit as one project and stratified the participant population according to the following criteria:

- **Measure type**, which stratifies projects by measure, ensuring that sampled findings logically extrapolate to the population. Measure categories include lighting, refrigeration, and weatherstripping.
- **Project size**, which stratifies projects by claimed savings size. AEG selected a census of, and conducted desk reviews and site visits for, the channel's largest projects.

Evaluation Adjustments. Figure 5-10 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 5-10 SBDI Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 100% for both energy and demand relative to claimed savings. AEG made the following changes to claimed savings:
  - **Retrofit lighting.** One project incorrectly calculated energy savings and demand reduction. It was not immediately clear why the values were discrepant, but the rest of the projects appeared to be reported correctly. The changes increased savings negligibly.
- **Desk Review.** Desk reviews yielded realization rates of 100% for energy and 99% for demand relative to savings replication results. AEG identified the following differences between project documentation and inputs provided by the tracking database and AR TRM:
  - **Retrofit lighting.** AEG updated wattages according to DLC's database or model spec sheets. These revisions increased energy savings minimally.
  - **Strip curtains.** One project appeared to calculate savings according to a doorway area that was different from what was recorded in project documentation. This revision decreased savings negligibly.
- **Savings Verification.** AEG conducted site visits to verify project information, which produced realization rates of 99.7% for energy and 100% demand relative to desk review results. AEG identified the following differences that arose from site visits:
  - **Retrofit lighting.** AEG updated quantities to capture fixtures that had burned out or been uninstalled since the project's completion, which slightly lowered energy savings.

Stratum-Level Findings. Table 5-17 and Table 5-18 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 0.6% (kWh) and 0.6% (kW) at the 90% confidence level, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 5-17 SBDI Evaluated Energy Savings by Stratum

Stratum	Projects	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - All Other	257	21	2,511,738	2,504,008	100%	25,548	1.0%
Lighting - Largest	14	10	1,206,363	1,214,377	101%	13,144	1.1%
Refrigeration	188	6	889,429	888,481	100%	3,455	0.4%
Non-Lighting - All Other	38	4	343,647	343,646	100%	3	0.0%
Total	**497**	**41**	**4,951,177**	**4,950,511**	**100%**	**28,938**	**0.6%**

Table 5-18 SBDI Evaluated Demand Reduction by Stratum

Stratum	Projects	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - All Other	257	21	521.9	518.0	99%	4.6	0.9%
Lighting - Largest	14	10	113.1	114.6	101%	1.6	1.4%
Refrigeration	188	6	101.3	101.4	100%	0.4	0.4%
Non-Lighting - All Other	38	4	50.0	50.1	100%	1.2	2.4%
Total	**497**	**41**	**786.3**	**784.0**	**100%**	**5.0**	**0.6%**

Figure 5-11 shows the SBDI savings distribution by stratum. Lighting projects made up 75% of evaluated gross energy savings and 80% of evaluated gross demand reduction.

Figure 5-11 SBDI Claimed and Evaluated Savings by Stratum

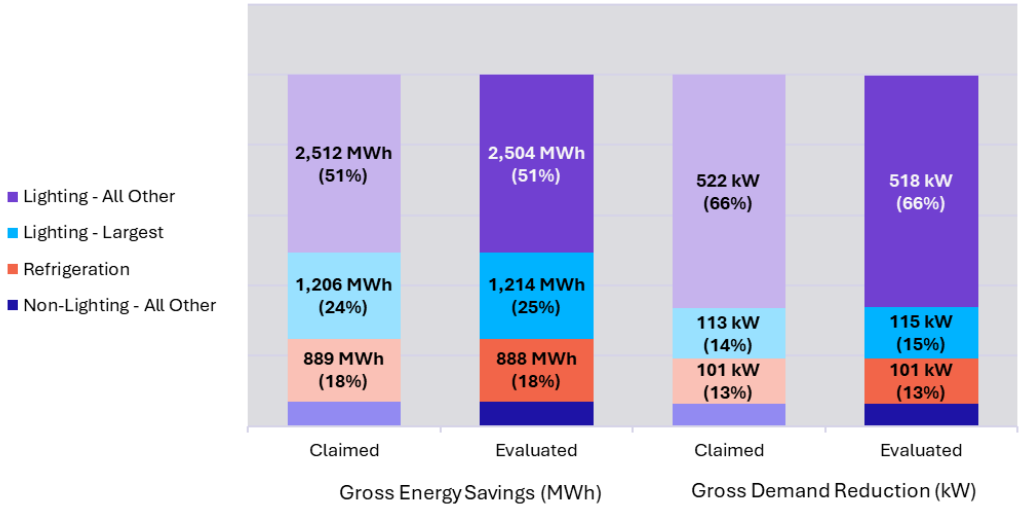


Table 5-19 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Lighting measures contributed the majority of the channel's lifetime savings.

Table 5-19 SBDI Net Lifetime Energy Savings by Stratum

Stratum	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Lighting - All Other	14.9	37,418,612
Lighting - Largest	15.0	18,213,854
Refrigeration	4.0	3,553,923
Non-Lighting - All Other	10.3	3,527,826
Total	**12.7**	**62,714,216**

SBDI – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers, interviewed TAs (n=2 of 9 participating), and administered an online participant survey (n=13 respondents).

Program Performance. Table 5-20 shows how SBDI performance changed from PY2023 to PY2024. Claimed energy savings decreased by 40% and demand reduction decreased by 5%. SBDI is the smallest contributor to CEEP, representing 4% of both energy savings and demand reduction.

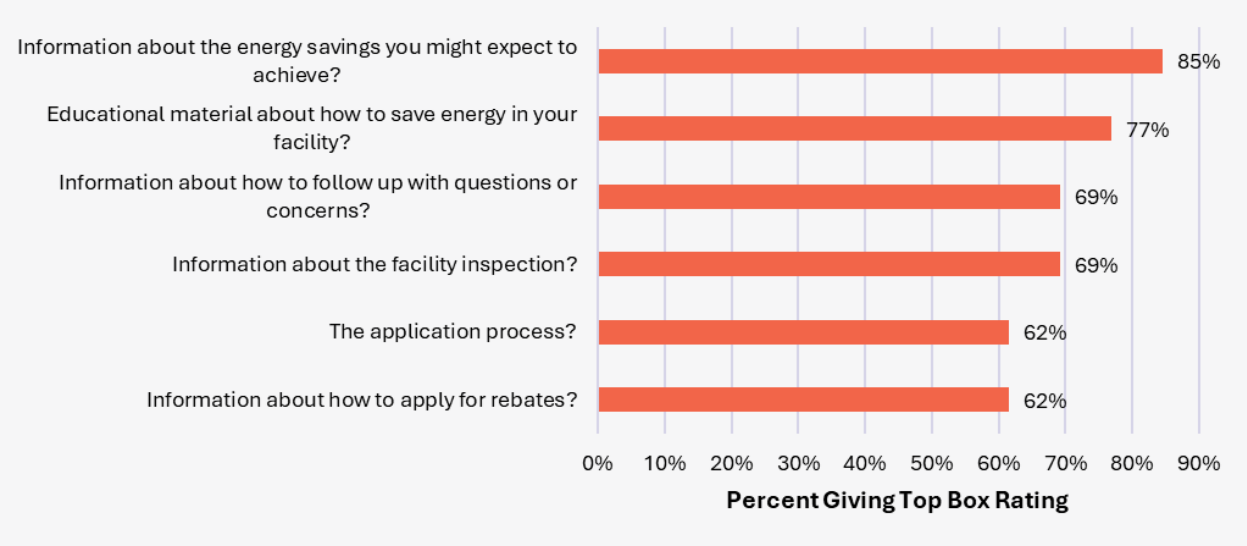
Table 5-20 SBDI Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	8,380,373	6%	4,951,177	4%	-40%
Demand (kW)	827	4%	786.3	4%	-5%

Channel Operations. SBDI is primarily contractor-driven, and CLEAResult has built for it a strong TA network, vetting and only using state-licensed contractors to perform the work. CLEAResult trains the TA network on a mobile field tool to conduct initial customer assessments. The tool generates a project proposal, which includes recommendations for measures and upgrades. In PY2024, CLEAResult also introduced a desktop application to enter customer assessments, which has been very well-received.

When asked about various aspects regarding ease of enrollment in the channel, most participants rated them a 4 or 5 on a 5-point scale.

Figure 5-12 SBDI Participant Ease of Program Enrollment



TAs generally report a good working relationship with CLEAResult, who they consider to be very knowledgeable and answers their questions in a timely manner.

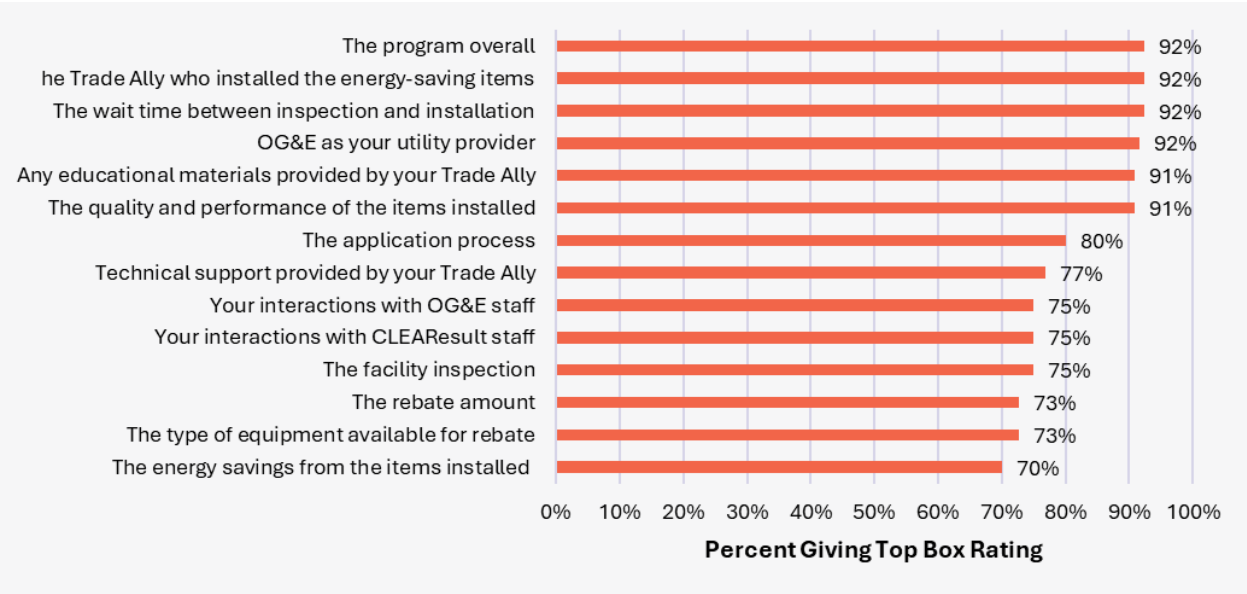
Barriers to Participation. Uncertainty among business owners about the economy and inflation are the main barriers to participation. Customers are also often skeptical because the program seems too good to be true. TAs report they often must convince customers that SBDI is legitimate.

Program Effectiveness. TAs think projects would be much more piecemeal without the program. The rebates offered allow customers to finish projects that have been started and stopped. The program is also a big boost to TAs business and profit.

> *"Over the years, we've grown because of the program. We've tripled the number of employees. It has allowed us to hire people and give them consistent work, allowed people to grow in other areas. Given people a career instead of a just a job"*

Participant Satisfaction. Most participants are very satisfied with all aspects of the program, rating the various program attributes a 4 or 5 on a 5-point satisfaction scale.

Figure 5-13 SBDI Participant Satisfaction



Cycle Time Analysis. AEG conducted a cycle time analysis to explore the time it takes from assessment to measure installation to inducement distribution. Figure 5-14 shows the days from assessment to installation for SBDI projects. **The projects averaged 66 days from the project start to installation.**

Figure 5-14 SBDI Number of Days from Project Start to Installation

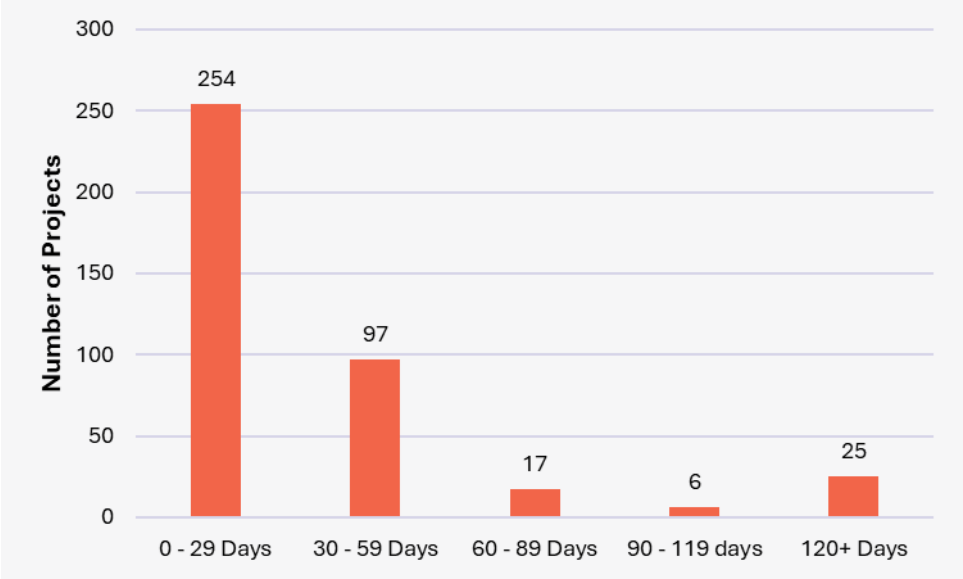
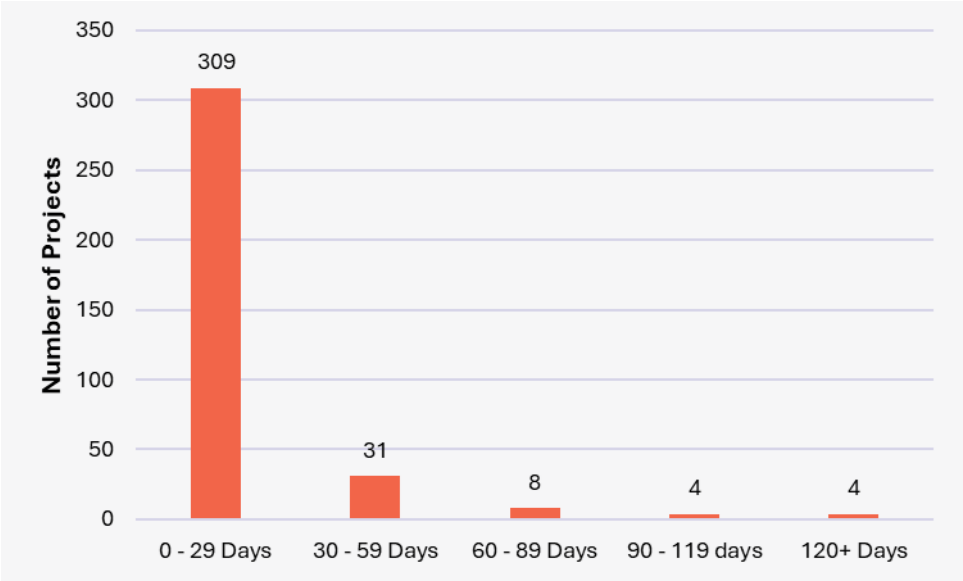


Figure 5-15 shows the time from installation to payment. **The average time from installation to payment was 11 days.**

Figure 5-15 SBDI Number of Days from Installation to Payment



Small Business Midstream (Midstream)

The Midstream channel offers point-of-sale (POS) inducements for qualified products to OG&E commercial customers through participating local and national distributors. Unlike an upstream design, the Midstream channel collects data on both distributors and purchasers. This channel offers an opportunity to participate in EE programs for contractors and end-users who might not otherwise pursue applying through another CEEP channel. Through this channel, financial inducements are paid to the distributor to reduce costs for the end-use customer.

Midstream – Key Evaluation Findings

The **impact evaluation** established Midstream evaluated gross energy savings of 31,929,122 kWh and evaluated gross demand savings of 5,777 kW, which amount to a 101% and 106% realization rate for kWh and kW respectively. Table 5-21 provides a summary of the Midstream impact evaluation findings.

Table 5-21 Midstream Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	31,624,311	31,929,122	101%	31,290,539	98%	442,250,200
Demand (kW)	5,469.4	5,776.9	106%	5,661.3	98%	n/a

The **impact evaluation** produced the following key findings:

- **AEG found considerably higher savings for kitchen equipment.** AEG leveraged ENERGY STAR QPLs for refrigerators and freezers to incorporate the actual volume and daily consumption of model numbers featured in projects sampled for desk reviews.

The **process evaluation** produced the following key findings:

- Almost **all savings** (99.8%) are generated by **lighting** measures.
- **TAs are extremely satisfied** with CLEAResult and feel the Midstream channel has a positive effect on their business.
- TAs feel that customers **would not buy the same products in the same quantity at the same time** if the channel did not exist.

Midstream – Recommendations

The **impact evaluation recommendations** are as follows:

- **Report project information in the program data provided to the evaluator.** This includes (but is not limited to) baseline wattage, facility type, and controls for lighting and input parameters such as equipment type, size/volume, fuel type, and temperature for kitchen equipment (e.g., dishwashers, refrigerators, freezers). The implementer accomplishes this to varying degrees for all other CEEP channels except Midstream. As such, evaluators cannot replicate savings for any measures.

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- Consider **offering low- or no-interest financing** to customers. Customers interested in non-lighting projects may not have access to the necessary capital.
- * **Engage more restaurant supply distributors in the channel**. There are currently only two participating distributors, and they represent less than 1% of the savings.
- * Continue to **pursue additional measures for the channel**. Midstream remains very lighting heavy.

Midstream – Impact Evaluation

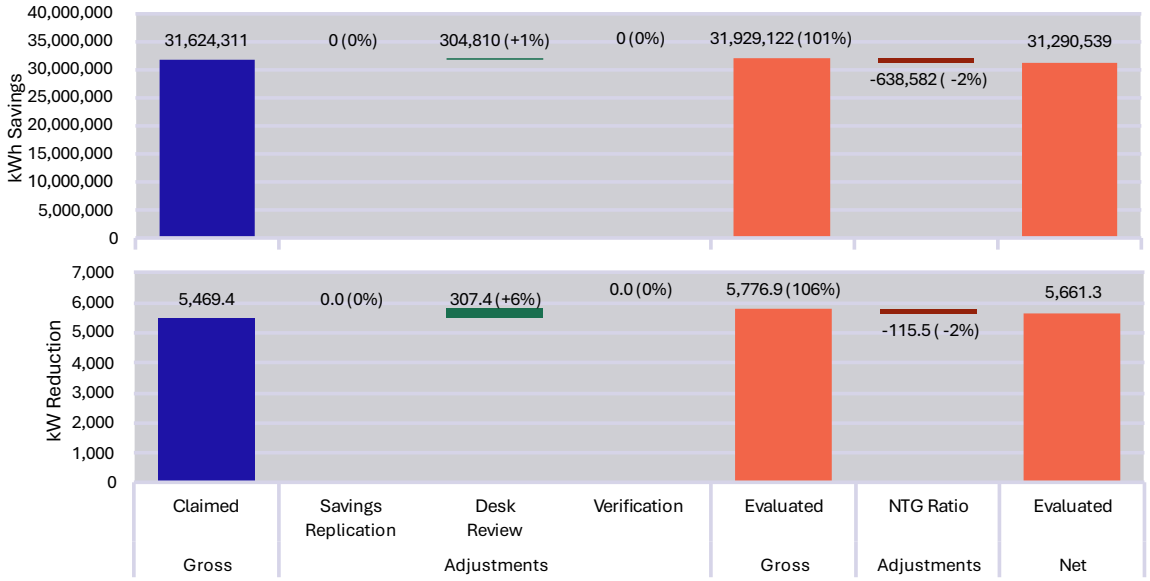
Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted desk reviews to evaluate savings. AEG used a stratified random sample for desk reviews. We defined the sample frame unit as one project and stratified the participant population according to the following criteria:

- **Measure type**, which stratifies projects by measure, ensuring that sampled findings logically extrapolate to the population. Categories include lighting and kitchen measures.
- **Project size**, which stratifies projects by claimed savings size. AEG selected a census of, and conducted desk reviews for, the channel's largest projects.

Because of the channel's midstream delivery mechanism, we did not conduct savings replication or savings verification (site visits).

Evaluation Adjustments. Figure 5-16 summarizes impact evaluation adjustments from each evaluation activity. We discuss the drivers of each adjustment below.

Figure 5-16 Midstream Summary of Adjustments by Activity



- **Desk Review.** Desk reviews yielded realization rates of 101% for energy and 106% for demand relative to claimed savings. AEG identified the following differences between project documentation and inputs provided by the tracking database and AR TRM:
  - For lighting, slight discrepancies between the high efficiency wattage assumptions in the program tracking data and rated/tested wattages for these products.
  - For kitchen equipment, while specific input parameters were not provided in the tracking data, desk reviews revealed discrepancies in unit size/volume used to calculate savings.
- **Net-to-Gross.** AEG applied the updated NTG ratio (98%) from the PY2023 evaluation.

Stratum-Level Findings. Table 5-22 and Table 5-23 show evaluated energy savings and demand reduction. Overall, we estimated relative precision of 1.1% (kWh) and 3.3% (kW) at the 90% confidence, both of which exceed minimum industry standards of ±10% at 90% confidence (i.e., 90/10).

Table 5-22 Midstream Evaluated Energy Savings by Stratum

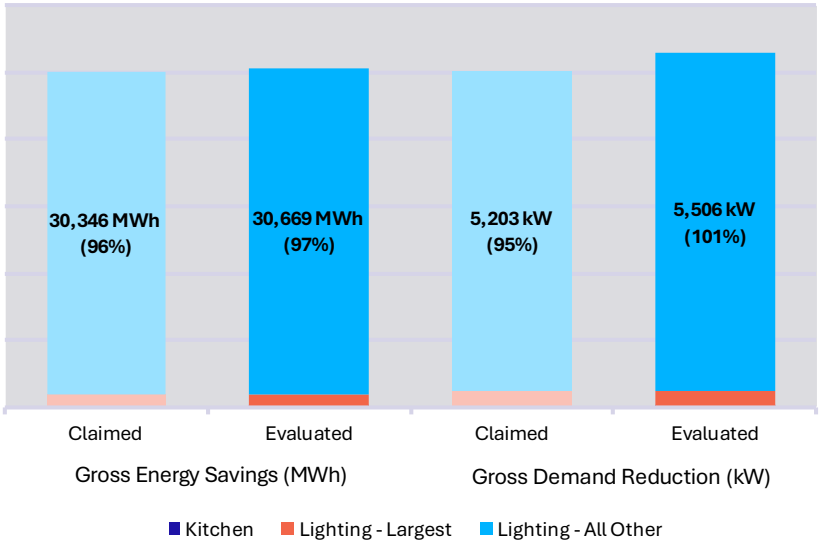
Stratum	Site Addresses	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - All Other	2,421	3	30,346,127	30,668,515	101%	339,714	1.1%
Lighting - Largest	12	2	1,254,416	1,230,878	98%	1,108	0.1%
Kitchen	29	6	23,768	29,729	125%	4,165	14.0%
Total	**2,462**	**11**	**31,624,311**	**31,929,122**	**101%**	**339,741**	**1.1%**

Table 5-23 Midstream Evaluated Demand Reduction by Stratum

Stratum	Site Addresses	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Lighting - All Other	2,421	3	5,202.9	5,506.4	106%	193.4	3.5%
Lighting - Largest	12	2	263.4	266.6	101%	0.2	0.1%
Kitchen	29	6	3.1	3.9	125%	0.5	14.0%
Total	**2,462**	**11**	**5,469.4**	**5,776.9**	**106%**	**193.4**	**3.3%**

Figure 5-17 shows the distribution of Midstream measures. Lighting delivers almost all channel savings.

Figure 5-17 Midstream Claimed and Evaluated Savings by Stratum



Measure-Level Savings. Table 5-24 shows the evaluated savings by measure category. Realization rates reflect stratum-level verification results.

Table 5-24 Midstream Evaluated Savings by Measure

Measure	Count	Gross Energy Savings (kWh)			Gross Demand Reduction (kW)		
		Claimed	Evaluated	RR	Claimed	Evaluated	RR
ENERGY STAR Convection Oven	1	3,314	4,145	125%	0.6	0.8	125%
ENERGY STAR Dishwasher	1	4,305	5,385	125%	0.6	0.7	125%
ENERGY STAR Freezer	9	6,177	7,539	122%	0.7	0.9	123%
ENERGY STAR Ice Machine	2	5,106	6,387	125%	0.6	0.7	125%
ENERGY STAR Refrigerator	20	6,640	8,066	121%	1.4	1.7	114%
LED Bulb	488	2,456,692	2,482,792	101%	502.1	531.4	106%
LED Fixture	1,928	29,109,241	29,381,623	101%	4,939.6	5,215.6	106%
Occupancy Sensor	13	32,836	33,185	101%	23.7	25.0	106%
Total	**2,462**	**31,624,311**	**31,929,122**	**101%**	**5,469.4**	**5,776.9**	**106%**

Table 5-25 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM. Lighting measures contributed the most to the channel's lifetime savings.

Table 5-25 Midstream Net Lifetime Energy Savings by Measure

Measure	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
ENERGY STAR Convection Oven	12.0	48,747
ENERGY STAR Dishwasher	10.0	52,770
ENERGY STAR Freezer	12.0	88,662
ENERGY STAR Ice Machine	10.0	62,588
ENERGY STAR Refrigerator	12.0	94,857
LED Bulb	4.0	9,732,543
LED Fixture	15.0	431,909,865
Occupancy Sensor	8.0	260,170
Total	**14.1**	**442,250,200**

Midstream – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers as well as TAs (n=5 of 20 who completed projects in PY2024).

Program Performance. Table 5-26 shows how Midstream performance changed from PY2023 to PY2024. Claimed energy savings increased by 1% and demand reduction increased by 13%. Midstream made the second-largest contribution to CEEP, representing 23% of energy savings and 27% of demand reduction.

Table 5-26 Midstream Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	31,307,767	23%	31,624,311	23%	+1%
Demand (kW)	4,849.9	24%	5,469.4	27%	+13%

Channel Operations. The Midstream channel is designed to provide point-of-sale (POS) discounts for the commercial sector. **The channel has 20 approved participating distributors** who are required to have at least one brick-and-mortar location in OG&E's service territory. The distributors are provided with a Program Partner Central tool that validates the measure and the customer when product is purchased. The inducement is seamless for customers: they get the discount at purchase and the distributor takes care of all paperwork. There is a monthly cap of $2,500 in inducements per customer per distributor.

Midstream Customer Participation Process

- Customer visits distributor to make purchase.
- Distributors validate customer and measure eligibility with tool.
- Customer receives instant discount at point of purchase.
- Distributor submits sales data to CLEAResult.
- Inducement paid to distributor.

Almost all savings (99.8%) are generated by lighting measures. The remaining 0.2% of savings comes from occupancy sensors and ENERGY STAR kitchen equipment. Although 20 distributors participated in PY2024, four distributors were responsible for 56% of the channel savings. In PY2024, the channel added an additional food service vendor.

Channel Satisfaction. TAs are extremely satisfied with CLEAResult and say the channel has a positive effect on their business. They think OG&E's midstream offering is superior to that of other utilities and are particularly impressed with the portal, which allows them to verify customers and products "within seconds." They would like to see the monthly inducement cap increased. They also think it would be helpful to verify customers by address.

> *"The whole thing works fantastic."*
>
> *"Customers don't have to do a thing. They just buy a qualified product and get a rebate."*
>
> *"At [OTHER UTILITY] the people are horrible. OG&E is much better."*

Channel Influence. TAs say the channel influences customers to buy more-efficient products. It's a very well-known offering that electricians ask about. They think customers would not buy the same products in the same quantity at the same time if the program did not exist.

Continuous Energy Improvement (CEI)

The CEI channel works with cohorts of facility and energy management professionals from participating commercial and industrial facilities. The channel works to build momentum behind energy management as a concept and a component of company culture at each facility. After initial no/low-cost opportunities yield results, the channel works with the participants to identify opportunities for longer term capital projects or retro-commissioning opportunities, which are then shuttled through the appropriate program channel.

CEI – Key Evaluation Findings

The **impact evaluation** established CEI evaluated gross energy savings of 31,009,807 kWh and evaluated gross demand savings of 3,113 kW, which amount to realization rates of 100% for both energy and demand. Table 5-27 provides a summary of the CEI impact evaluation findings.

Table 5-27 CEI Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	31,009,807	31,009,807	100%	31,009,807	100%	31,009,807
Demand (kW)	3,112.6	3,112.6	100%	3,112.6	100%	n/a

The **impact evaluation** produced the following key findings:

- **AEG was able to replicate models using the data provided and found that all large C&I models adhered to established statistical standards.** As such, AEG accepted all energy savings with 100% realization rates.
    - Not all school models adhered to every statistical standard, but that was primarily due to data limitations. On average, each model was sufficient and optimized given the limited data.

The **process evaluation** produced the following key findings:

- The channel had 33 participants, which is its **largest cohort to date**.
- **CLEAResult works with OG&E AEs** to introduce them to potential participants. Some customers who have completed custom projects through CEEP are also referred to CEI.
- The channel also offered **sector-specific events** in PY2024 that were very successful.
- Arkansas is trying out a **mid-size customer CEI program** for customers whose usage is between 1 and 5 GWh. If it is successful, CLEAResult would like to try it in Oklahoma.

CEI – Recommendations

The **process evaluation recommendations** are as follows:

- **Roll out the mid-size program in Oklahoma** if it is successful in Arkansas.

CEI – Impact Evaluation

Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted desk reviews to evaluate savings. AEG used a random sample for desk reviews. Because of the channel's design, we did not conduct savings replication or savings verification (site visits).

Evaluation Adjustments. AEG did not make any adjustments to claimed savings, resulting in realization rates of 100% for both energy and demand.

Net-to-Gross. Industry best practices used to calculate energy savings for strategic energy management (SEM) programs naturally capture net savings. As such, both claimed and evaluated savings are already net of free ridership and spillover and do not require the application of a NTG ratio.

Net Lifetime Savings. CEI measures are assumed to have a one-year measure life such that lifetime savings equal first-year energy savings.

CEI – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers.

Program Performance. Table 5-28 shows how CEI performance changed from PY2023 to PY2024. Claimed energy savings increased by 2% and demand reduction decreased by 28%. CEI made the third-largest contribution to CEEP, representing 22% of energy savings and 15% of demand reduction.

Table 5-28 CEI Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	30,334,751	23%	31,009,807	22%	+2%
Demand (kW)	4,349.6	22%	3,112,6	15%	-28%

Channel Operations. CEI is a behavioral program that engages customers to participate in a cohort through a series of workshops and trainings. The interactive cohort style allows participants to learn from one another and the information provided in the workshops. Each customer receives an audit at the beginning of participation to better understand their building's operations. Energy savings are modeled,

and customers receive two inducements: one at the 6-month mark and another at the end of the year. Twice-a-year payouts have helped influence customers to implement additional energy-saving projects.

Participants are recruited through one-on-one in-person marketing. CLEAResult works with OG&E AEs to introduce them to potential participants. Some customers who have completed custom projects through CEEP are also referred to CEI.

CEI Customer Participation Process
- Customer joins cohort.
- Customer receives audit.
- Customer attends workshops and trainings.
- Customer implements projects.
- CLEAResult models energy savings.
- Inducements paid to customers biannually.

According to CLEAResult, the program has 12 or 13 new participants in PY2024. CEI had 33 participants, which is its largest cohort to date.

Channel Engagement. CEI offers a number of workshops and educational resources to participants. In PY2024, program staff turned the annual kickoff meeting into an event that included former CEI participants as speakers. These former participants talked about what they did to achieve savings, what worked best, and their lessons learned. It was very well-received and provided new participants with ideas of how to save energy in their facilities.

The channel also offered sector-specific events in PY2024. This included several back-to-school events for their school participants. During these events they provided customized handouts and collateral that was site-specific and included recommendations and best practices.

For their manufacturing participants CLEAResult organized an Employee Appreciation Day that included a running slideshow highlighting facility energy savings and avoided costs achieved.

Arkansas is testing a CEI program for mid-size customers (usage between 1 and 5 GWh). If it is successful CLEAResult would like to deliver it in Oklahoma. One hurdle is it can be harder to realize savings for smaller participants and they are instead using engineered calculations based on scheduling changes.

HVAC Replacement and Tune-Up (C&I HVAC)

The C&I HVAC channel focuses on energy savings by optimizing existing HVAC units and replacing older inefficient systems. Customer-requested HVAC tune-ups or unit replacements are completed through a network of participating contractors (TAs). When customers contact the CEEP program, the project team refers them to available contractors or schedules an appointment for them. TAs complete the tune-up or HVAC unit replacement, the data collection on system performance, and the paperwork required to submit the applicable channel rebate forms. Savings are estimated using CLEAResult's CoolSaver tool, which performs pre- and post-measurements on the HVAC equipment receiving tune-ups and model measure savings. Once the application has passed the channel requirements review, it is processed, and the rebate is paid directly from OG&E to the TAs.

C&I HVAC – Key Evaluation Findings

The **impact evaluation** established C&I HVAC evaluated gross energy savings of 5,022,452 kWh and evaluated gross demand savings of 2,842 kW, which amount to realization rates of 98% for both energy and demand. Table 5-29 provides a summary of the C&I HVAC impact evaluation findings.

Table 5-29 C&I HVAC Impact Evaluation Summary

Savings	Gross Savings			Net Savings		
	Claimed	Evaluated	RR	Evaluated	NTG	Lifetime
Energy (kWh)	5,144,944	5,022,452	98%	4,520,207	90%	45,202,072
Demand (kW)	2,903.1	2,841.9	98%	2,557.7	90%	n/a

The **impact evaluation** produced the following key findings:

- **The CoolSaver tool is robust and leads to accurate savings.** AEG's savings replication efforts, desk reviews, and site visits found that the channel operates well.

The **process evaluation** produced the following key findings:

- CLEAResult started a **pilot program to target small businesses**.
- The channel has recruited more TAs, with a focus on TAs in rural areas. This has helped the channel **reach previously underserved customers**.

C&I HVAC – Recommendations

The **process evaluation recommendations** are as follows. Recommendations carried forward from the PY2023 evaluation are indicated with a purple asterisk (*):

- * Continue to **recruit more TAs** to the program, particularly TAs that serve **rural areas.**

C&I HVAC – Impact Evaluation

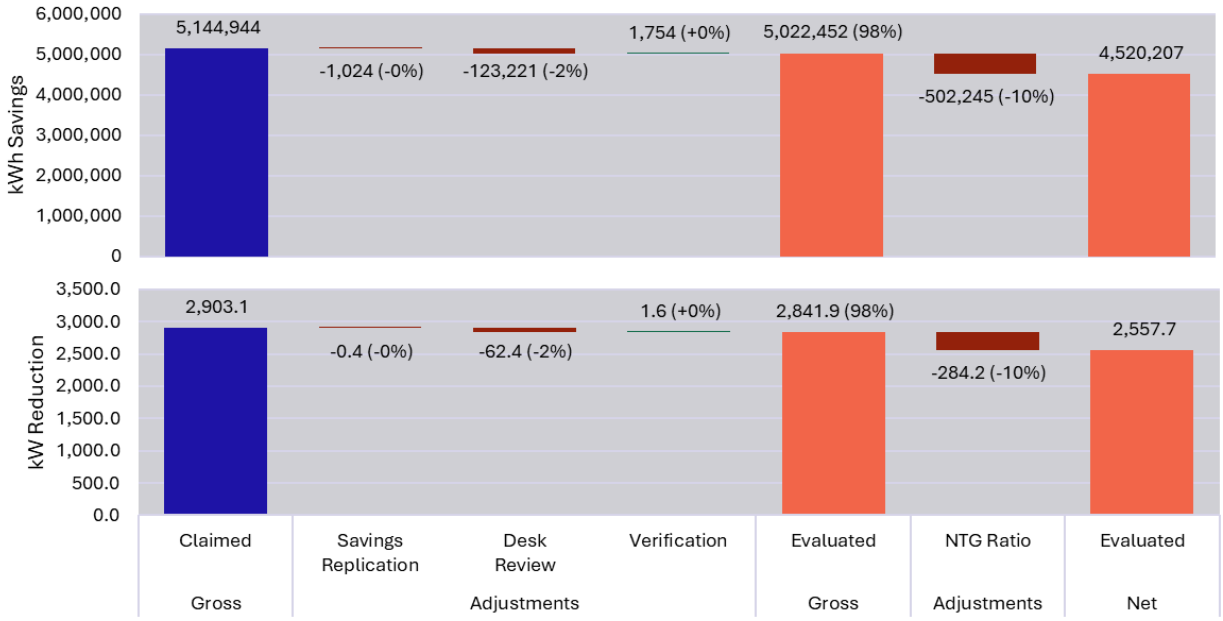
Evaluation Approach. As summarized in Table 5-4 (page 64), AEG conducted savings replication, desk reviews, and savings verification to evaluate savings. AEG used a stratified random sample for desk reviews and site visits. We defined the sample frame unit as one project and stratified the participant population according to the following criteria:

- **Project size**, which stratifies projects by claimed savings size. AEG selected a census of, and conducted desk reviews and site visits for, the channel's largest projects.

As described in *C&I HVAC – Process Evaluation* below, AEG conducted interviews with TAs that included questions about free ridership in order to estimate a new NTG ratio for PY2024.

Evaluation Adjustments. Figure 5-18 presents a summary of impact evaluation adjustments from each activity. We discuss the driver of each adjustment below.

Figure 5-18 C&I HVAC Summary of Adjustments by Activity



- **Savings Replication.** AEG's savings replication efforts resulted in realization rates of 100% for both energy and demand relative to claimed savings. AEG did not identify any discrepancies among project documents, the program tracking database, and the AR TRM except for differences in rounding.
- **Desk Review.** Desk reviews yielded realization rates of 98% for energy and 98% for demand relative to savings replication results. AEG identified the following differences between project documentation and inputs provided by the tracking database and AR TRM:
  - **Tune-ups (M&V, Modeled, and Post Measurement).** AEG updated HVAC capacities according to the AHRI database, which reduced energy savings slightly.
- **Savings Verification.** AEG conducted site visits to verify project information, which produced realization rates of 100% for both energy and demand relative to desk review results.
- **Net-to-Gross.** AEG applied the updated NTG ratio (90%) from this year's evaluation. See *Net-to-Gross Analysis* below for more details.

Stratum-Level Findings. Table 5-30 and

Table 5-31 show evaluated energy savings and demand reduction. The channel is comprised entirely of HVAC tune-ups, and realization rates less than 100% reflect changes to cooling and heating capacities according to the AHRI database.

Table 5-30 C&I HVAC Evaluated Energy Savings by Stratum

Stratum	Projects	Sample	Gross Energy Savings (kWh)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Largest	2	1	543,351	542,081	100%	0	0.0%
All Other	319	19	4,601,593	4,480,372	97%	61,898	1.4%
Total	**321**	**20**	**5,144,944**	**5,022,452**	**98%**	**61,898**	**1.2%**

Table 5-31 C&I HVAC Evaluated Demand Reduction by Stratum

Stratum	Projects	Sample	Gross Demand Reduction (kW)			90% Confidence	
			Claimed	Evaluated	RR	Abs. Prec.	Rel. Prec.
Largest	2	1	258.9	258.9	100%	0.0	0.0%
All Other	319	19	2,644.2	2,583.0	98%	32.9	1.3%
Total	**321**	**20**	**2,903.1**	**2,841.9**	**98%**	**32.9**	**1.2%**

Figure 5-19 shows the C&I HVAC energy and demand savings distribution by stratum. The 2 largest projects comprised 11% of the total evaluated energy savings.

Figure 5-19 C&I HVAC Claimed and Evaluated Savings by Stratum

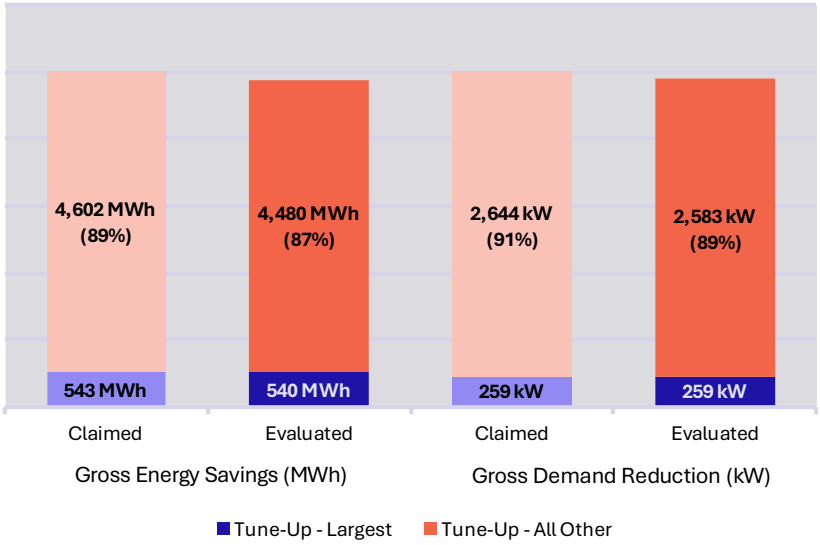


Table 5-32 shows the net lifetime savings by measure, which are calculated using EULs from the AR TRM.

Table 5-32 C&I HVAC Net Lifetime Energy Savings by Stratum

Stratum	Estimated Useful Life (EUL)	Net Lifetime Energy Savings (kWh)
Largest	10.0	4,878,726
All Other	10.0	40,323,345
Total	**10.0**	**45,202,072**

Net-to-Gross Analysis. In PY2022 AEG interviewed TAs to estimate an NTG ratio to be applied to the PY2023 evaluation. Because of a low response rate and a description of the tune up that didn't adequately describe the benefits of the work performed through the program we found the results to be insufficient and, in agreement with OG&E, conducted a new NTG analysis in PY2024 to be applied immediately (to this year's evaluated savings). The resulting NTG ratio (90%) is 29 percentage points higher than the ratio assessed in PY2023 (61%). This change is attributed to reaching a higher proportion of participants (43%) and providing a better description of the enhanced tune-up provided by the channel.

C&I HVAC – Process Evaluation

Evaluation Approach. As summarized in Table 5-5 (page 65), AEG interviewed OG&E and CLEAResult program managers.

Program Performance. Table 5-33 shows how C&I HVAC performance changed from PY2023 to PY2024. Claimed energy savings decreased by 28% and demand reduction decreased by 26%. C&I HVAC contributes to CEEP more robustly in demand reduction (14%) than in energy savings (4%).

Table 5-33 C&I HVAC Claimed Savings – PY2023 v. PY2024

Gross Savings	PY2023		PY2024		% Diff.
	Claimed	Share of CEEP	Claimed	Share of CEEP	PY2023 v. PY2024
Energy (kWh)	7,240,034	5%	5,144,944	4%	-28%
Demand (kW)	3,966.4	20%	2,903.1	14%	-26%

Channel Operations. The channel provides no-cost HVAC tune-ups to C&I customers who have not tuned up their HVAC systems in the last five years. The channel is marketed by the TA network. In PY2024 CLEAResult started a pilot program to target small businesses. The program enrolled 234 small businesses, far surpassing its goal of 100.

According to the implementer, the channel has recruited more TAs, with a focus on TAs in rural areas. This has helped the channel reach previously underserved customers.

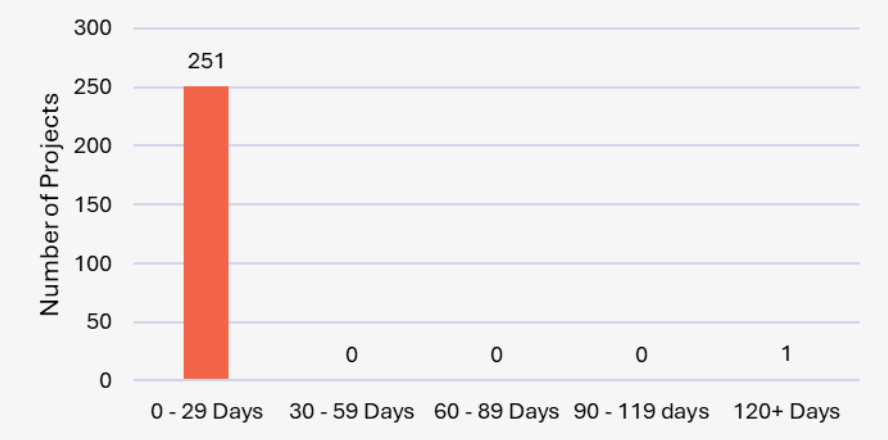
Barriers to Participation. The main barriers for C&I HVAC are the smaller number of contractors who work with commercial customers and the prevalence of schools in the channel who prefer to have all work completed when school is not in session. The TAs also encounter resistance from customers because they do not believe the tune-ups are free.

> *"We have done a lot of schools. My approach is to attack the issue. I have a crew that only does schools in OG&E's service territory. These schools take priority over other jobs."*

> *"Small businesses have been very receptive to the program. They don't believe you when you first tell them about it. Free can sometimes be a hurdle."*

Cycle Time Analysis. Cycle time analysis was conducted for the channel to explore the time it takes from the tune-up to inducement distribution. Figure 5-20 shows the number of days from tune up to payment. **Almost all payments were completed within 30 days of the tune-up**, with an average of 7 days.

Figure 5-20 C&I HVAC Number of Days from Tune-Up to Payment



A | DETAILED METHODOLOGIES

This section provides detailed methodologies of the data collection and analyses used for the impact and process evaluations across all programs.

Impact Evaluation Approach

The impact evaluation has three objectives: (1) estimate evaluated gross savings, (2) estimate evaluated net savings, and (3) test program cost-effectiveness. We used a combination of evaluation activities to produce a customized approach appropriate to each program and channel. Figure A-1 shows the evaluation activities performed in the PY2024 evaluation and maps each activity to the corresponding objective. Table A-1 summarizes the impact evaluation activities performed for each program and channel. We describe each activity in detail below.

Figure A-1 Impact Evaluation Activities

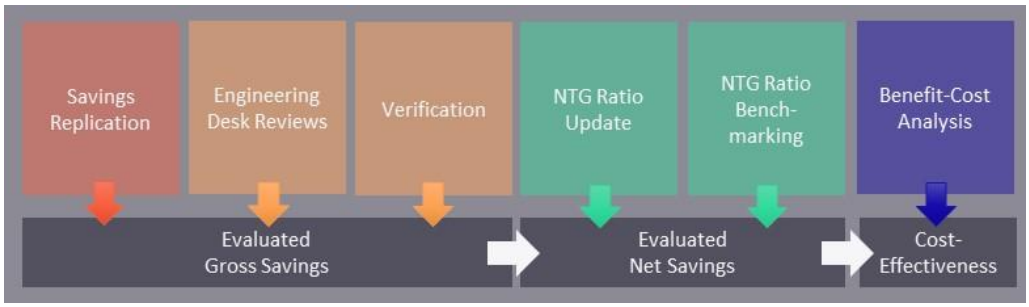


Table A-1 Impact Evaluation Activities by Program and Channel

Channel	Savings Replication	Desk Review	Savings Verification	NTG Ratio Update	Benefit-Cost Analysis
HEEP					
RSOL	✓	✓	✓		✓
LivingWise	✓				✓
Res HVAC	✓	✓	✓		✓
CPS	✓				✓
PE-NHC		✓		✓	✓
WRAP					
WRAP	✓	✓	✓		✓
CEEP					
CIS	✓	✓	✓+		✓
SAGE	✓	✓	✓+		✓
SBDI	✓	✓	✓+		✓
Midstream		✓			✓
CEI		✓			✓
C&I HVAC	✓	✓	✓+	✓	✓

+ site visits were performed for additional verification

As applicable, we developed a sampling plan to efficiently execute each analysis while maintaining a ±10% error margin at a 90% confidence level. For activities that require customer interaction, such as surveys and on-sites, we reviewed the selected sample with OG&E staff to ensure that participants are not

currently included in other OG&E surveys (i.e., avoid survey fatigue). We include detailed descriptions of the sample design in Appendix B.

Evaluated Gross Savings

For all programs and channels, AEG conducted some combination of the following impact activities to produce evaluated gross savings and the corresponding gross realization rate.

Savings replication, performed at the census level, duplicated the savings from the tracking database and ensured that claimed savings estimates, associated inputs, and assumptions were correct and reasonable. Savings replication included the following two steps:

- We reviewed OG&E's program tracking database to verify the accuracy of input assumptions and savings calculations and confirm that the database covers an appropriately comprehensive suite of project information, focusing on required data fields for the verification. We ensured that the necessary data was available to facilitate the most accurate estimates of program savings.
- We replicated the savings using the current AR TRM or other approved documentation (e.g., a different state's TRM, ENERGY STAR, etc.) to calculate savings for the population of deemed and semi-prescriptive measures and services in the program tracking database.

Engineering desk reviews, performed on a sample of participants, checked the accuracy of input variables, model numbers, and other project-specific information in the backup documentation for a sample of applications or projects. Desk reviews can be "simple" or "complex," which are described as follows:

- Engineering Algorithm Review (Simple). For prescriptive or semi-prescriptive measures, we requested all backup documentation for a representative sample of participants. Based on the documentation provided, we completed a more thorough review of the impacts, including verification of model numbers, measure counts, and other algorithm inputs.
- Engineering Algorithm Review (Complex). For custom measures or complex semi-prescriptive measures, we conducted a detailed review of the savings approaches and calculations to confirm or adjust savings. This activity may include some or all of the following:
- Review of project-level M&V plans, as available, to ensure that the savings calculations are consistent with any plans,
- Review of detailed project documentation, which may include pre-implementation and post-implementation data collected during project-level M&V,
- Primary or secondary research to inform the savings analysis, and
- Incorporation of data collected from on-site verification activities.

Verification activities, performed on a sample of participants, use virtual or on-site methods to verify measures/equipment rebates, installation, and operation. Our approach to verification for impact evaluations is as follows:

- **Contact Sample Participants.** We followed the customer outreach protocol outlined in the EM&V plan, which included OG&E and Implementer coordination. The protocol focused on managing customer survey fatigue, communicating AEG's affiliation with OG&E, and improving participant response rates.
- **Develop Site-Specific EM&V Plans.** We developed site-specific or measure-specific data collection plans to account for the need for various measures and corresponding verification methods for different sample points. As part of the development process, AEG verified the project scope and supporting documentation's completeness to determine the necessary supplementary information. The review included measure types/classification, measure baselines, savings estimation methodology and assumptions, and M&V plans. The plans included the following elements:
    - **Virtual verification (phone/email)** for simple verification of prescriptive measure sites, and
    - **On-Site verification (in-person)** for the complex sites with custom measures.

- **Virtual Verification Process.** For residential and prescriptive/semi-prescriptive measures, we performed virtual (phone/email) verification activities. Participants were asked to verify the installation and critical aspects of incentivized equipment and measures. The types of data collected will depend on the installed measures but are likely to include:
    - Counts of lamps, fixtures, or other efficient equipment installed by type,
    - Photographs of installed EE equipment,
    - Photographs of equipment nameplates,
    - Supplemental trend data from BAS or SCADA systems, and
    - Manufacturer's specification sheets for installed equipment.
- **On-Site Verification Process.** For custom and whole building projects, we performed in-person or on-site verification activities, which included some or all of the following:
    - Verified that equipment is operating correctly and recorded model numbers and efficiencies (in addition to all the same information as discussed for Virtual Verification),
    - Confirmed the fuel used and other pertinent information, including (1) verifying utility meters that serve the building and recording meter numbers, (2) verifying any calculation inputs that are required to evaluate the energy savings, (3) verifying baseline and efficient case parameters used in the building simulation models, and (4) verifying building construction permit and completion dates,
    - For measures with very high savings, measures with considerable uncertainty in their assumptions, custom engineering analyses, and complex projects that need more detailed data collection and analysis:
    - Obtained screenshots of the building's energy management system or control system,
    - Obtained trend data from the building's energy management system and any submeter data available from the site, and
    - Verified parameters used in the building simulation model, including building occupancy and equipment operation schedules, equipment sizes and efficiencies, details of equipment control systems, and building geometry and construction characteristics.

For On-Site Verification, the EM&V plans also included the following guidelines:

- General safety procedures and guidelines, including tools and PPE guidelines, and
- On-Site verification training.

Evaluated Net Savings

AEG recommended a once-per-cycle prospective update of the NTG ratio used to derive the evaluated net savings from the evaluated gross savings. In other words, the PY2024 evaluation used 2022 NTG ratios for channels that did not receive a NTG update in 2023. Four channels: RSOL, CIS, SAGE, and Midstream received NTG updates in 2023 and those results are applied to the evaluated gross savings.

- **NTG Ratio Update.** We used a survey-based approach for programs/channels updated in 2024 - PE NHC and C&I HVAC. This self-report approach (surveys and interviews) started with gross estimates of savings adjusted for NTG factors, such as savings (1) from free riders, participants not influenced by the program, and (2) from spillover, nonparticipants influenced by the program, but savings were not reported. We discuss program/channel-specific surveys in respective program/channel sections.

Cost-Effectiveness

We calculated the cost-effectiveness of OG&E's programs based on OG&E's reported total spending, evaluated energy and demand savings, measure inputs, and OG&E-specific economic inputs. Measure inputs include equipment measure life and participant incremental cost. OG&E-specific economic inputs include avoided costs, discount rates, line losses, etc. Additional inputs included Non-Energy Benefit (NEB) savings associated with water savings, when applicable, and the Oklahoma Utility Earned Incentive.

We used our proprietary BenCost model to evaluate cost-effectiveness. The BenCost model is a transparent and comprehensive program planning and cost-effectiveness tool built in Microsoft Excel that conforms to the fundamental principles of cost-effectiveness economics and is consistent with industry best practices. The specific tests used to evaluate cost-effectiveness are Total Resource Cost Test (TRC), Utility Cost Test (UCT or PAC), Ratepayer Impact Measure Test (RIM), Participant Cost Test (PCT), and Societal Cost Test (SCT). The cost-effectiveness approach and assumptions are detailed in Appendix C.

Process Evaluation Approach

AEG's approach to process evaluations is to provide quantifiable, actionable results that can be replicated over time to measure progress toward the program's goals. Similar to the impact evaluation, we used a combination of activities to produce a customized approach appropriate to each program and channel. Figure A-2 lists the typical evaluation activities performed in a process evaluation. Table A-2 summarizes the process evaluation activities performed for each program and channel. We describe each activity in detail below.

Figure A-2 Process Evaluation Activities

Table A-2 Process Evaluation Activities by Program and Channel

Program/Channel	Program Manager Interview	Implementer Interview	Trade Ally Survey/ Interview	Participant Survey/Interview	Cycle Time Analysis
HEEP					
RSOL	✓	✓			✓
LivingWise	✓	✓			
Res HVAC	✓	✓	✓		
CPS	✓	✓			
PE-NHC	✓	✓			
WRAP					
WRAP	✓	✓			
CEEP					
C&I Solutions	✓	✓	✓		✓
SAGE	✓	✓	✓		✓
SBDI	✓	✓	✓	✓	✓
Midstream	✓	✓	✓		
CEI	✓	✓			
C&I HVAC	✓	✓	✓		✓

AEG's analysis collectively contributes to developing actionable recommendations to capitalize on program strengths, overcome program weaknesses, streamline program data collection and tracking, and increase program key performance indicators (KPIs).

As applicable, we developed a sampling plan to efficiently execute each analysis while maintaining a ±10% error margin at a 90% confidence level. For activities that require customer interaction, such as surveys and interviews, we reviewed the selected sample with OG&E staff to ensure that participants are not currently included in other OG&E surveys (i.e., avoid survey fatigue). We include detailed descriptions of the sample design in Appendix B.

Program Manager and Implementer Interviews

AEG conducted in-depth interviews with OG&E implementation staff and third-party implementers enlisted by OG&E that are involved in the day-to-day running of the program. These foundational discussions provide our team with critical context and the program-specific language we need to effectively converse with participants and accurately interpret their feedback. These interviews are also instrumental in determining the KPIs to track for each channel and creating the program scorecards for the evaluation plan.

An experienced AEG analyst or project manager conducted in-depth interviews and identified staff impressions of program implementation activities, program performance, marketing and customer awareness of the program, program data and tracking mechanisms, barriers to increased participation, overall program effectiveness, and opportunities for program improvements. Our experienced interviewers used a flexible approach to the discussion, allowing the respondent to talk about their experiences or perspective while still shaping the discussion to collect critical and relevant information.

Contractor and Trade Ally Interviews

As applicable to each program and channel, we interviewed participating contractors and Trade Allies who provide various installation and audit services. In these interviews, we captured information about the areas where our prior research has indicated barriers/challenges to the programs. The possible topics the interviews could address are program awareness, the effectiveness of program marketing, the need and availability of training, drivers of participation, barriers to participation, program satisfaction, and benefits. Additionally, these interviews could elicit interest in new program activities or determine items such as the marketing support desired by Trade Allies.

Participant and Nonparticipant Surveys

AEG recommended a once-per-cycle cadence for conducting participant surveys. Under a separate engagement in 2022, AEG conducted a market evaluation that included surveys with nonparticipants. For that reason, we did not conduct additional nonparticipant surveys.

Participant data collection is conducted primarily to understand the participant experience with OG&E's programs. AEG determined the appropriate medium (surveys and/or in-depth interviews) depending on the number and type of participants. We focused the surveys and interviews on:

- How participants became aware of programs,
- How they learned about the program,
- Why they signed up for the program,
- Experience signing up, including the wait time,
- The assessment experience or interactions with contractors for some programs,
- Satisfaction with the program, inducements, and measures installed,
- Attitudes toward EE,
- Information sources used when making purchasing decisions,
- Verification of direct install measures, including persistence,
- Net-to-gross battery,
- Likelihood of installing additional measures and technologies,
- Barriers to installing additional measures and technologies,

- Recommendations for program improvement,
- Challenges due to COVID-19,
- Relevant demographics, including the age of home, and
- Opportunities to improve program delivery/their experience.

AEG worked collaboratively with OG&E for both mediums to design surveys and interview prompts. AEG also worked collaboratively with OG&E staff and third-party implementers to identify the best approach to fielding surveys and scheduling interviews:

- Survey invitations were sent to valid email addresses, prompting participants to complete an online survey.
- In-depth interviews were conducted over the phone.

Cycle Time Analysis

Using tracking data and the participant survey/interview results, we calculated the typical time required for a participant to move through the key stages of participation.

B | SAMPLE EXAMPLE DESIGN AND EXTRAPOLATION

We developed a sampling plan to efficiently and cost-effectively execute each analysis while maintaining a ±10% error margin at a 90% confidence level (90/10) at the program level. For the PY2024 evaluation, we analyzed the participant population necessary for each program/channel and determined if a sampling approach was necessary for these activities: desk reviews, site visits, and participant surveys.

Table B-1 identifies the activities that required a (non-census) sampling approach by channel.

Table B-1 Evaluation Activity Sampling by Program and Channel

Program/Channel	Desk Review	Site Visit	Participant Survey
HEEP			
RSOL	✓		✓
LivingWise			✓[13]
Res HVAC	✓		✓
PE-NHC	✓		
CPS			
WRAP			
WRAP	✓		✓
CEEP			
CIS	✓	✓	
SAGE	✓	✓	
SBDI	✓	✓	✓
Midstream	✓	✓	
CEI	✓		
C&I HVAC	✓		

We used the following approach to sample design:

- **Reviewed the program data,** focusing on the population distribution in each tracking database across measures, reported savings, and other metrics (e.g., home type, heating fuel type, etc.) as relevant to ensure that we build an efficient sampling plan specific to projects and customers in the current evaluation year.
- **Determined whether sampling** is required to complete the impact evaluation activities. Some activities, such as savings replication, did not require a sampling plan.
- **Stratified the project population** based on the program data review and evaluation goals. We determined a stratification approach based on each program/channel's participant population, delivery stream, measure category, or claimed savings bins as needed.
- **Selected an appropriate and efficient sampling approach within each stratum** depending on the distribution of participation and claimed savings: census v. sample.
- **Determined the recommended sample size for each stratum.** We used an 85/15 assumption within each stratum to achieve 90/10 at the program level. We calculated coefficients of variation (CV) from previous year evaluations to calculate an appropriate sample size. These assumptions mitigate the risk that we under-sample or over-sample strata and fail to meet or far exceed confidence and precision targets.

[13] The LivingWise sample consisted of students that completed the HEW. AEG did not design a separate sample for this channel.

We worked closely with OG&E project staff to develop reasonable and efficient sample plans that meet their needs for the evaluation. For activities requiring customer interaction, such as on-sites, surveys, and interviews, we reviewed the selected sample with OG&E staff to ensure that participants are not included in other OG&E surveys (i.e., avoid survey fatigue).

Sample Design Summary

The following tables present the sample design executed in PY2024 and the achieved coefficients of variation (CVs) around evaluated savings. We show the achieved relative precision and CV for evaluated gross energy savings (kWh) for conservative reporting purposes. The precision and CV associated with demand (kW) are slightly lower.

Table B-2 shows the sample design summary for HEEP. The sample design achieved an overall ±0.04% error margin at a 90% confidence level (90/10).

Table B-2 HEEP Sample Design Summary

Channel: Stratum	Count	Desk Review			Verification (Surveys)			Rel. Prec. (90%)
		Sample	Rel. Prec. (90%)	Achieved CV	Sample	Rel. Prec. (90%)	Achieved CV	
RSOL: Single Family	2,121	12	0.0%	0.000	365	0.93%	0.006	0.9%
RSOL: Multifamily	2,206	12	0.0%	0.000	n/a	n/a	n/a	0.0%
LivingWise	13,718	1,728	5.2%	0.034	n/a	n/a	n/a	5.2%
Res HVAC: Weatherization	4,995	24	0.0%	0.000	n/a	n/a	n/a	0.0%
Res HVAC: SmartKits	469	n/a	n/a	n/a	102	10.6%	0.064	10.6%
PE-NHC	1,757	10	0.0%	0.000	n/a	n/a	n/a	0.0%
Overall HEEP								**0.04%**

Table B-3 shows the sample design summary for WRAP. The sample design achieved an overall ±1.23% error margin at a 90% confidence level.

Table B-3 WRAP Sample Design Summary

Stratum	Count	Desk Review			Verification (Surveys)			Rel. Prec. (90%)
		Sample	Rel. Prec. (90%)	Achieved CV	Sample	Rel. Prec. (90%)	Achieved CV	
Single Family - Gas	2,005	8	3.4%	0.021	267	3.4%	0.021	3.4%
Multi-Family - Gas	163	4	4.2%	0.025	n/a	n/a	n/a	4.2%
Single Family - Electric	491	8	0.8%	0.005	267	3.4%	0.021	0.8%
Multi-Family - Electric	384	8	0.4%	0.003	n/a	n/a	n/a	0.4%
Overall WRAP	**3,043**							**1.23%**

Table B-4 shows the sample design summary for CEEP. For Midstream, “Count” indicates the number of site addresses rather than number of unique projects. The sample design achieved an overall ±0.51% error margin at a 90% confidence level.

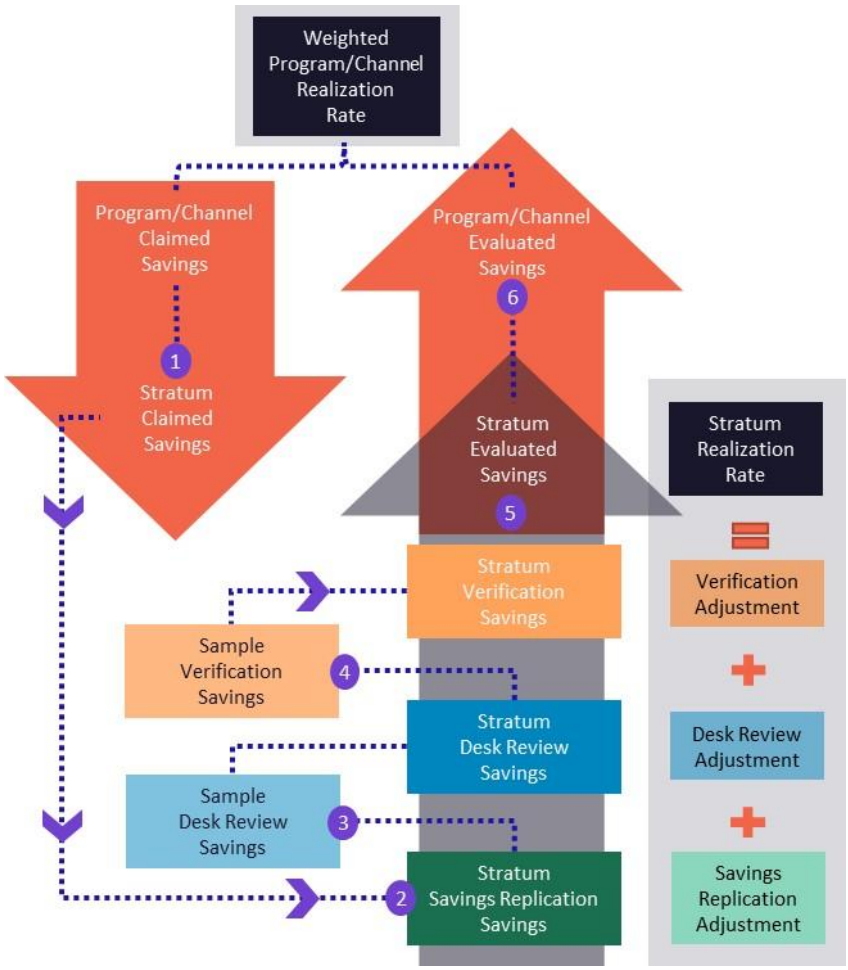
Table B-4 CEEP Sample Design Summary

Channel: Stratum	Count	Desk Review			Verification (Site Visits)			Rel. Prec. (90%)
		Sample	Rel. Prec. (90%)	Achieved CV	Sample	Rel. Prec. (90%)	Achieved CV	
CIS: Custom - Horticulture Lighting - All Other	49	20	8.0%	0.049	12	0.0%	0.000	8.0%
CIS: Custom - Horticulture Lighting - Largest	2	2	0.0%	0.000	2	0.0%	0.000	0.0%
CIS: Custom - Non-Lighting - All Other	36	5	0.0%	0.000	2	0.0%	0.000	0.0%
CIS: Custom - Non-Lighting - Largest	3	3	0.0%	0.000	n/a	n/a	n/a	0.0%
CIS: Prescriptive - Lighting - All Other	43	4	1.4%	0.008	n/a	n/a	n/a	1.4%
CIS: Prescriptive - Lighting - Largest	6	6	0.0%	0.000	n/a	n/a	n/a	0.0%
CIS: Prescriptive - Non-Lighting	18	4	3.5%	0.021	n/a	n/a	n/a	3.5%
SAGE: Lighting - All Other	77	6	3.5%	0.021	n/a	n/a	n/a	3.5%
SAGE: Lighting - Largest	4	4	0.0%	0.000	1	0.0%	0.000	0.0%
SAGE: Non-Lighting - All Other	43	6	5.1%	0.031	n/a	n/a	n/a	5.1%
SAGE: Non-Lighting - Largest	1	1	0.0%	0.000	n/a	n/a	n/a	0.0%
SBDI: Lighting - All Other	257	21	1.0%	0.006	n/a	n/a	n/a	1.0%
SBDI: Lighting - Largest	14	10	1.1%	0.007	1	0.0%	0.000	1.1%
SBDI: Refrigeration	188	6	0.4%	0.002	n/a	n/a	n/a	0.4%
SBDI: Non-Lighting - All Other	38	4	0.0%	0.000	n/a	n/a	n/a	0.0%
Midstream: Lighting - All Other	2,421	3	1.1%	0.007	n/a	n/a	n/a	1.1%
Midstream: Lighting - Largest	12	2	0.1%	0.001	n/a	n/a	n/a	0.1%
Midstream: Kitchen	29	6	14.0%	0.085	n/a	n/a	n/a	14.0%
C&I HVAC: Tune-Up - All Other	319	19	1.4%	0.008	n/a	n/a	n/a	1.4%
C&I HVAC: Tune-Up - Largest	2	1	0.0%	0.000	1	0.0%	0.000	0.0%
Overall CEEP								**0.48%**

Sample Extrapolation

AEG used the following steps, including Savings Replication, Desk Review, and Verification activities, to inform Channel and Program Evaluated Savings. As noted in Appendix A, we performed each impact evaluation activity as appropriate to each program and channel. Each activity's realization rate (adjustment) is incremental from each preceding step. Figure B-1 below shows the sequence followed by sample extrapolation. Below we discuss steps 1 to 6 in more detail and define each adjustment and realization rate.

Figure B-1 Sample Stratification



Stratify Program Savings. As discussed above, AEG reviewed the program data and stratified the population of savings by program, channel, and additional criteria as appropriate to each program/channel.

Savings Replication. AEG completed its audit of the tracking system and re-calculated the claimed savings. We performed this audit at the census level for programs and channels with the appropriate data available. Throughout this report, we refer to the difference between Stratum Claimed Savings and Stratum Savings Replication Savings as Savings Replication Adjustment:

$$\text{Savings Replication Adjustment} = (\text{Stratum Savings Replication Savings})/(\text{Stratum Claimed Savings})$$

Desk Reviews. AEG gathered backup documentation for each sampled project within each program, channel, and stratum and conducted Desk Reviews to determine the sample-verified savings. Within each stratum, AEG used a Ratio Expansion approach to determine the Stratum Desk Review Savings, using the evaluated savings from the previous step (Stratum Savings Replication Savings) as the reference point. This approach ensures adjustments are incremental to changes made to the population of claimed savings during Savings Replication (i.e., the Desk Review does not double-count any Savings Replication adjustments). Throughout this report, we refer to the difference between Stratum Claimed Savings and Stratum Desk Review Savings as Desk Review Adjustment:

$$\text{Desk Review Adjustment} = (\text{Stratum Desk Review Savings} - \text{Stratum Savings Replication Savings})/(\text{Stratum Claimed Savings})$$

Savings Verification. AEG conducted various verification activities (on-site inspections, web-based surveys, and phone surveys) on a sample of participants. AEG collected measure-level in-service rates (ISRs) to determine the sample-verified savings. Again, within each stratum, AEG used a Ratio Expansion approach to determine the Stratum Savings Verification Savings, using the evaluated savings from the previous step (Stratum Desk Review Savings) as the reference point. This approach ensures adjustments are incremental to changes made to the population of claimed savings during Desk Reviews. Throughout this report, we refer to the difference between Stratum Claimed Savings and Stratum Verification Savings as Verification Adjustment:

$$\text{Savings Verification Adjustment} = (\text{Stratum Savings Verification Savings} - \text{Stratum Desk Review Savings})/(\text{Stratum Claimed Savings})$$

Stratum Evaluated Savings. Collectively, the three impact evaluation activities produce the Stratum Evaluated Savings. Similarly, the sum of the three adjustments makes the Stratum Realization Rate:

$$\begin{aligned}&\text{Stratum Realization Rate}\\&= \text{Savings Replication Adjustment} + \text{Desk Review Adjustment} + \text{Verification Adjustment}\\&= (\text{Stratum Evaluated Savings})/(\text{Stratum Claimed Savings})\end{aligned}$$

Aggregate to Channel, Program, and Portfolio Levels. We calculated Channel and Program Evaluated Savings as the sum of Stratum Evaluated Savings. Similarly, we calculated Portfolio Evaluated Savings as the sum of Program Evaluated Savings. To estimate the Weighted Realization Rate for each channel, program, and overall portfolio, AEG divided evaluated savings by claimed savings. Program and portfolio realization rates incorporate all adjustments from Savings Replication, Desk Reviews, and Verification activities:

$$\text{Weighted Program Realization Rate} = (\text{Program Evaluated Savings})/(\text{Program Claimed Savings})$$

C | COST-EFFECTIVENESS ANALYSIS

AEG evaluated the cost-effectiveness of the portfolio and programs based on 2023 costs provided by OG&E and their third-party implementers and the evaluated savings resulted from this evaluation. We provide a brief overview of the approach and the assumptions used in the analysis.

We used our proprietary BenCost model as the primary tool to execute the cost-effectiveness analysis. The BenCost model is a transparent and comprehensive program planning and cost-effectiveness tool built in Microsoft Excel® that conforms to the fundamental principles of cost-effectiveness economics and is consistent with industry best practices. BenCost also has the flexibility to allow for modifications based on OG&E-specific needs.

We used five cost-effectiveness analysis methods among the standard methods used in this industry. All tests weigh monetized benefits against costs. These monetized amounts are presented as Net Present Value (NPV) evaluated over the measures' lifespan. The benefits and costs differ for each test based on the perspective of the test.

- **Total Resource Cost (TRC)** Test evaluates benefits and costs from the perspective of all utility customers (participants and non-participants). The TRC test measures the net costs and benefits of an EE program as a resource option based on the total costs of the program, including both the participant and the utility costs.
- **Program Administrator Cost Test/Utility Cost Test (PACT/UCT)** evaluates benefits and costs from the perspective of the utility, government agency, or third party implementing the program. The PACT/UCT measures the net costs of a program as a resource option based on the costs incurred by the program administrator (utility), excluding any net costs incurred by the participant. The benefits are avoided supply costs of energy and demand as well as the Oklahoma Utility Earned Incentive. The costs are the program costs incurred by the utility and participant inducements.
- **Participant Cost Test (PCT)** evaluates benefits and costs from the perspective of the customer installing the measure. The PCT measures the quantifiable benefits and costs to the customer due to participation in a program. The benefits include a reduction in the participants' bill and inducements received. The costs are out-of-pocket expenses incurred as a result of participation.
- **Ratepayer Impact Measure (RIM)** Test evaluates the impact of efficiency measures on non-participating ratepayers. The RIM test measures the change in customer bills or rates due to changes in utility revenues and operating costs. Benefits are the savings from avoided supply costs of energy and demand. Costs are the program costs incurred by the utility, participant inducements, and decreased utility revenues.
- **Societal Cost Test (SCT)** evaluates benefits and costs to society as a whole. The SCT measures the net costs and benefits of a program as a resource option based on the total costs of the program, including both the participant cost and utility cost and the benefit to society represented by an environmental externality factor.

Analysis Inputs. We calculated the cost-effectiveness of OG&E's programs based on OG&E reported total spending, evaluated energy and demand savings, measure inputs, and OG&E-specific economic inputs.

- Measure inputs include equipment measure life and participant incremental cost.
- OG&E-specific economic inputs include avoided costs, discount rates, line losses, etc.
- Additional inputs included Non-Energy Benefit (NEB) savings associated with water savings, when applicable, as well as the Oklahoma Utility Earned Incentive. Several of the residential programs' measures result in reduced water usage and EE savings. For these measures, we calculated annual water reductions and used the average costs of water ($/gallon) in the OG&E service territory to determine NEB impacts.

Table C-1 summarizes the benefit and cost components included in each test.

Table C-1 Benefits and Costs Included in Each Cost-Effectiveness Test

Test	Benefits	Costs
TRC	Energy-related costs avoided by the utility Capacity-related costs avoided by the utility (including generation, transmission, and distribution) Additional resource savings (i.e., natural gas) Non-energy benefits (i.e., water)	Program overhead costs Incremental measure costs
UCT (PACT)	Energy-related costs avoided by the utility Capacity-related costs avoided by the utility (including generation, transmission, and distribution)	Program overhead costs Utility incentive costs
PCT	Incentive payments Bill Savings	Incremental equipment costs Incremental installation costs
RIM	Energy-related costs avoided by the utility Capacity-related costs avoided by the utility (including generation, transmission, and distribution) Additional resource savings (i.e., natural gas) Non-energy benefits (i.e., water)	Program overhead costs Utility incentive costs Lost revenue due to reduced energy bills Incremental measure costs
SCT	Energy-related costs avoided by the utility Capacity-related costs avoided by the utility (including generation, transmission, and distribution) Additional resource savings (i.e., natural gas) Non-energy benefits (i.e., water)	Program overhead costs Program installation costs Incremental measure costs

The following tables detail the results of each cost-effectiveness test for the programs and portfolio.

Table C-2 Cost-Effectiveness Benefits by Program

Program	TRC	UCT (PACT)	RIM	PCT	SCT
HEEP	$40,446,574	$35,809,567	$40,446,574	$69,585,459	$53,682,829
WRAP	$15,119,794	$13,138,299	$15,119,794	$26,257,909	$21,001,306
CEEP	$79,600,350	$89,625,733	$79,600,350	$169,313,049	$101,445,179
Energy Education	$0	$0	$0	$0	$0
R&D	$0	$0	$0	$0	$0
Planning	$0	$0	$0	$0	$0
Total Benefits	**$135,166,718**	**$138,573,599**	**$135,166,718**	**$265,156,416**	**$176,129,313**

Table C-3 Cost-Effectiveness Costs by Program

Program	TRC	UCT (PACT)	RIM	PCT	SCT
HEEP	$13,612,796	$11,584,511	$73,725,434	$8,800,935	$8,800,935
WRAP	$4,897,958	$4,897,958	$27,357,016	$4,072,940	$4,072,940
CEEP	$25,057,438	$17,668,802	$173,311,881	$16,571,050	$16,571,050
Energy Education	$767,075	$767,075	$767,075	$0	$767,075
R&D	$2,682,593	$2,682,593	$2,682,593	$0	$2,682,593
Planning	$120,267	$120,267	$120,267	$0	$120,267
Total Costs	**$47,138,128**	**$37,721,207**	**$277,964,267**	**$29,444,925**	**$33,014,861**

Table C-4 Cost-Effectiveness Net Benefits by Program

Program	TRC	UCT (PACT)	RIM	PCT	SCT
HEEP	$26,833,777	$24,225,056	-$33,278,860	$60,784,524	$44,881,894
WRAP	$10,221,836	$8,240,341	-$12,237,222	$22,184,969	$16,928,365
CEEP	$54,542,913	$71,956,931	-$93,711,531	$152,741,998	$84,874,129
Energy Education	-$767,075	-$767,075	-$767,075	$0	-$767,075
R&D	-$2,682,593	-$2,682,593	-$2,682,593	$0	-$2,682,593
Planning	-$120,267	-$120,267	-$120,267	$0	-$120,267
Total Net Benefits	**$88,028,590**	**$100,852,392**	**-$142,797,549**	**$235,711,491**	**$143,114,453**

D | NET-TO-GROSS ANALYSIS

The PY2024 net-to-gross (NTG) analysis consisted of conducting surveys for two channels: PE-NHC and C&I HVAC. AEG made considerable efforts to remain consistent with previous survey-based approaches to establish appropriate comparisons to prior NTG ratios. An outline of the methodology used for each channel is provided below.

PE-NHC

For PE-NHC, AEG used two criteria to determine the likelihood that a participant was a free rider. The final free ridership was calculated as follows:

$$\text{Free Ridership} = \textit{average}\,(\text{Program Component Score, Program Influence Score})$$

The first criterion, **Program Component Score**, was based on the influence of various components of the program:

> *Using a scale where 1 means not at all influential and 5 means extremely influential, how would you rate the influence of the following factors on your company's decision to build energy-efficient homes through the PEH Program?*

Based on the responses to the question above, AEG assigned a *Program Component* score based on the highest rated component as follows:

- 1 (Not at all influential) = 0
- 2 =.25
- 3 =.5
- 4 =.75
- 5 (Extremely influential) = 1

AEG then assessed respondents' likelihood of building high efficiency homes in the absence of the channel to determine the **Program Influence Score**:

> *Using a scale where 1 means not at all likely and 5 means very likely, how likely is it that you would have built any homes in OGE's service territory that met the program's efficiency standards if the program was not available?*

Based on the responses to the question above, AEG assigned a *Program Influence Score* as follows:

- 1 (Not at all likely) = 0
- 2 =.25
- 3 =.5
- 4 =.75
- 5 (Very likely) = 1

C&I HVAC

For C&I HVAC the following approach was used to determine the channel's NTG ratio.

When determining the NTG score, the **first criterion** was based on the response to the following question in the participant survey:

> *Typically, annual maintenance of HVAC equipment is less extensive than what was provided in your OG&E tune up. The OGE tune up is more comprehensive and involves cleaning both evaporator and condenser coils as well as the blower motor and wheel. During the service the filters are changed, and the airflow is set to the correct CFM. This type of service would typically cost approximately $500 per unit.*

Were you planning to have a comprehensive tune up similar to what is described above before learning about the OG&E program?

- Customers who answered "no" were not deemed free riders.
- Customers who answered "yes" were asked the second criterion.

The **second criterion** was based on the response to the following question in the participant survey:

"Would you have been able to make the financial investment to tune up your HVAC equipment if OG&E's HVAC Program was not available?"

- Customers who answered "no" were not deemed free riders.

The **third criterion** was the impact of the channel on the timing of the decision to implement the EE measure. The AR TRM stipulates a decision-maker who would have installed a measure within one year for full free ridership. AEG determined customers were not free riders if they stated that they would have installed a measure in more than one year.

Specifically, respondents were asked the following questions:

"Did you service your HVAC equipment sooner than you would have if the program had not been available?"

"When might you have tuned up or serviced your HVAC equipment if you had not participated in the program?"

- Respondents who answered "yes" to the first question and indicated that they would have installed the measure one or more years later in the second question were deemed not to be free riders.

The **fourth criterion** applied only to respondents who said they would have made the financial investment to tune up their HVAC equipment and would have done so within one year of when they undertook it.

"Using a scale where 1 means not at all likely and 5 means very likely, how likely is it that you would have tune up your HVAC equipment if the program was not available?"

  - If the respondent answered somewhat likely (4) they were considered a partial free rider; if the respondent answered very likely (5) they were considered a full free rider.

Applied Energy Group, Inc.
2300 Clayton Road
Suite 1370
Concord, CA 94520
P: 510-982-3526

7.2 Marketing Materials

OKLAHOMA

OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

MEASURES SHEET

OG&E Schools and Government Efficiency Program provides a variety of energy efficiency measures for educational and publicly funded facilities. We'll provide an energy assessment at **no out-of-pocket cost** to you to help identify and install the measures that could bring you the biggest savings.

Lighting retrofits
Modern, efficient fixtures use less energy while providing high-quality light that is designed to improve the learning environment.

Exit light replacements
Replace aging and inefficient incandescent exit lights with energy-saving LED units.

Gym and multipurpose room lighting replacements
Older gym and multipurpose room lighting can be inefficient as well as unappealing. This retrofit will solve both issues.

Sports lighting
Retrofitting existing sports lighting with efficient LEDs can greatly reduce energy and maintenance costs.

HVAC replacement
Older HVAC systems can be a major cause of wasted energy. Upgrading is one of the easiest ways to save.

Scan to learn more

CONTACT US FOR MORE INFORMATION:

844-882-5747
ceep@oge.com

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OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

FORT GIBSON SCHOOLS SWITCH ON THE SAVINGS.

With help from OG&E's Schools and Government Efficiency Program, a district-wide lighting upgrade is saving Fort Gibson Public Schools thousands each year.

Getting schooled in efficiency

The Fort Gibson Public School District reached out to OG&E with concerns about its outdated lighting system and rising energy costs. Through the School and Government Efficiency Program, OG&E provides publicly funded facilities like Fort Gibson schools with guidance and incentives for energy efficiency projects.

OG&E's participating contractors performed a full lighting retrofit of the school district's kindergarten, middle school, high school, administrative offices and gymnasiums. That meant replacing each of the district's 1,621 T8 and T12 bulbs with longer-lasting, energy-saving LED bulbs. To offset the costs of the upgrades, OG&E provided the district with more than $50,000 worth of incentives.

Thanks to these incentives and energy cost savings of more than $27,000, the district is expected to recoup its investment within five years.

Lighting the way to savings

The success of the lighting retrofit inspired the district to also participate in OG&E's benchmarking services. By comparing Fort Gibson schools' energy performance metrics to similar buildings, OG&E's energy experts will be able to calculate the most cost-effective, energy-saving opportunities for the school district.

SAVINGS AT A GLANCE

364,029 kWh
SAVED

$27,666
ESTIMATED ANNUAL SAVINGS

$54,604
INCENTIVES PROVIDED BY OG&E

4.8 years
ESTIMATED PAYBACK PERIOD

Scan to learn more

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MIDSTREAM INSTANT INCENTIVE
PARTICIPATING DISTRIBUTOR LOCATIONS

ADA
- Broken Arrow Electric
- Locke Supply

ARDMORE
- Ardmore Electric
- CED
- Hunzicker Bros
- Locke Supply

BETHANY
- Locke Supply

BROKEN ARROW
- Lighting Inc.
- Rexel USA

CUSHING
- Broken Arrow Electric

DURANT
- Broken Arrow Electric
- Locke Supply

EDMOND
- Batteries Plus
- City Electric Supply
- Elliott Electric
- Locke Supply

ENID
- CED
- Crawford Electric Supply
- Elliott Electric
- Locke Supply

LAWTON
- Hunzicker Bros

MCALESTER
- Broken Arrow Electric

MIDWEST CITY
- Batteries Plus
- City Electric Supply
- Locke Supply

MOORE
- City Electric Supply
- Elliott Electric
- Locke Supply

MUSKOGEE
- Broken Arrow Electric
- Crawford Electric Supply
- Locke Supply

MUSTANG
- Locke Supply

NORMAN
- Batteries Plus
- City Electric Supply
- Locke Supply

OKLAHOMA CITY
- Batteries Plus
- Bright Lights
- Broken Arrow Electric
- CED
- City Electric Supply
- Crawford Electric Supply
- Elliott Electric
- EMSCO
- Hunzicker Bros
- Locke Supply
- Luminous of Oklahoma
- Rexel USA
- Star Lighting
- Voss Lighting

POTEAU
- Rexel USA
- Wholesale Electric Supply

SHAWNEE
- Hunzicker Bros
- Locke Supply

STILLWATER
- Hunzicker Bros
- Locke Supply

TULSA
- Crawford Electric Supply

WOODWARD
- Hunzicker Bros
- Locke Supply

YUKON
- Locke Supply

Funds are available on a first-come, first-served basis and limited to $2,500/month/customer/location.

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OKLAHOMA

OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

FACT SHEET

Design

OG&E provides incentive funding for energy-efficient upgrades and retrofits to all educational and publicly funded facilities within our service territory. Based on the energy-efficient measures you choose, we'll help you secure the largest incentives available. Educational activities are also available at no upfront cost. They are designed to help administrative personnel at facilities to identify and quantify energy efficiency opportunities.

Goals

The program aims to help cover a portion of the total cost of each project. Over the long term, we're here to help participants save money on utility bills, improve comfort and protect the environment through education, increased efficiency and responsible energy consumption.

Implementation

Program representatives will help facilities with participation in all our available services, and help determine what energy efficiency measures will work best for them.

Eligibility

All educational and publicly funded facilities are eligible to participate if they're located within the OG&E service territory.

Timeframe

Participation is based on a first-come, first-served basis throughout the program year, or while funds last.

Scan to learn more

CONTACT US FOR MORE INFORMATION:

844-882-5747

ceep@oge.com

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AVAILABLE **INCENTIVES**

Planning an energy efficiency project? Get with the program. Our Small Business Efficiency Program offers incentives and rebates that can cover up to 90 percent of the cost of a project or qualified purchase.

Incentive rates:

- $0.20/kWh reduced for eligible LED lighting and refrigeration measures
- Variable rebates for qualified lighting and kitchen equipment purchases

ELIGIBLE **PROJECTS**

Incentives are available for a wide variety of energy efficiency projects, including:

- LED lighting upgrades* (including occupancy sensors and exit signs)
- Refrigeration door gaskets and strip curtains.
- Qualified ENERGY STAR® kitchen equipment
- LED bulb purchases from approved distributors

*LED retrofits must be either DesignLights Consortium® approved or ENERGY STAR certified to receive incentives.

Take control of your energy use—and your bottom line.

To get started, please have your OG&E account number and site address handy and contact us today.

ceep@oge.com
844-882-5747

Products and services are provided solely by approved participating Service Providers. OG&E does not sell goods or services in its energy efficiency programs.

OKLAHOMA

BIG SAVINGS FOR YOUR **SMALL BUSINESS**

SMALL **BUSINESS EFFICIENCY PROGRAM**

OG&E offers energy-efficient solutions for small business customers.

OG&E® We Energize Life

OGE.com

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OG&E® We Energize Life

PROGRAM **BENEFITS**

We'll provide everything you need to help your business achieve long-term energy savings, including:

- A no-out-of-pocket-cost, no-obligation lighting assessment to identify energy-saving opportunities
- Recommendations and estimates for energy savings, project costs and payback periods
- Installation of approved energy-saving equipment by a local, pre-qualified contractor
- Incentives paid directly to the contractor by the program to reduce your upfront cost
- Instant discounts from partnered distributors for lighting and kitchen equipment purchases

It's with programs like this one that OG&E is able to keep rates among the lowest in the country.

ELIGIBILITY

The program is open to any small commercial customers with a valid OG&E account meter and no more than 200 kW peak demand at any one facility.

Get started **today**

1. Visit **OGE.com/CEEP** to view participating contractors and distributors.
2. Contact the program partner you selected and provide your customer account number to verify your eligibility.

TYPICAL **PROJECT SCENARIO**

To give you an idea of the potential savings available through the program, below is an example of some commonly proposed retrofits. The projected savings and costs for these retrofits are on the right.

Existing interior lighting:

32 4 ft. 4-lamp fluorescent fixtures
16 60W incandescent bulbs
2 exit signs

Interior lighting retrofit:

32 4 ft. 36W LED fixtures
16 10W LEDs
2 LED exit signs

Incentives, actual savings and payback periods vary depending on the equipment installed, building characteristics, energy use patterns, age of existing equipment, location and other parameters specific to the project.

EXAMPLE PROJECT BY THE NUMBERS

20,671 kWh
total energy savings

2.96 kW
total peak demand savings

$4,134
estimated incentives

$578
net cost to customer

$4,712
estimated project cost

3.36 years
project payback

$2,067
estimated annual savings

DYNAMIC ADS - IN-HOME ENERGY ASSESSMENT

Meta Dynamic Creative Description

Dynamic creative helps advertisers automatically deliver high-performing combinations of their creative assets to their audiences. Dynamic creative accepts the basic components of a Meta ad (image, video, title, description, etc.) and automatically generates optimized ad combinations based on these components. These ads are then served across placements to explore the performance of each creative element within the given audience.

STATIC IMAGE OPTIONS (THREE NEEDED)

Primary text (125 char. before cutoff):

- Get up to $750 worth of energy-saving upgrades and recommendations at no added cost to you with an In-Home Energy Assessment.
- Schedule an In-Home Energy Assessment today to discover ways to lower your energy costs and enhance your home's comfort.
- Get personalized recommendations and energy-saving upgrades like LEDs, advanced power strips and more at no additional cost.
- An In-Home Energy Assessment includes up to $750 worth of energy-saving products and expertise—at no added cost to you.
- See how your home and budget can benefit from energy-saving upgrades and recommendations from a certified energy advisor.

Headlines (5 max, 27 char max recommended):

- IN-HOME ENERGY ASSESSMENT
- A $750 VALUE AT NO ADDED COST
- BOOST YEAR-ROUND COMFORT
- REDUCE YOUR ENERGY COSTS
- GET LEDS, POWER STRIPS & MORE

Descriptions (5 max, 27 char max recommended)

- Book your assessment today.
- No out-of-pocket costs
- Schedule online now.
- Save energy and money.
- More comfort. More savings.

CTA Options

- Book now
- Learn more
- Sign up
- Request time
- Call Now (844-882-5746)

Destination URL:
OGE.com/HEA

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VIDEO 1

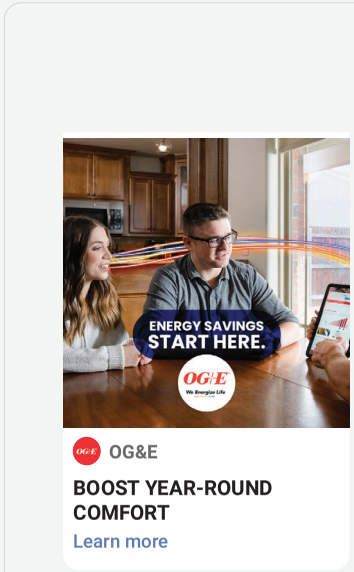
VIDEO 2

All videos feature animated energy stroke and close with the OG&E animated logo.

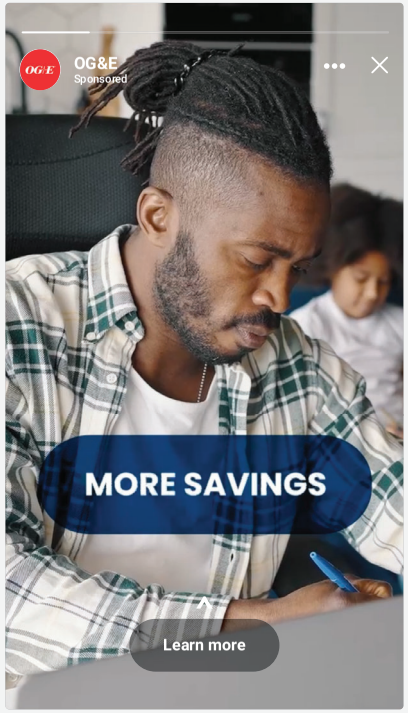
© 2024 CLEAResult

Facebook
Feeds

Facebook
Marketplace



Facebook
Stories



Meta Dynamic Ads: Up to 10 images, 5 headlines, 5 descriptions (optional) and 5 primary text where Meta's API automatically delivers high-performing combinations of their creative assets to their audiences.

For Placement Only Examples

© 2024 CLEAResult

HAVE A COOL SUMMER.

Tune up your summer savings with an Advanced A/C Tune-up, now available at no additional cost to you.

Valued at $250, an Advanced A/C Tune-up can help:

- Reduce cooling costs
- Improve comfort and humidity control
- Ensure longer-lasting equipment
- Boost energy efficiency by up to 30 percent

Sign up today.
Scan the code or contact us at
844-882-5746 or **ogehvac@clearesult.com**.

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COOL DOWN & SAVE UP.

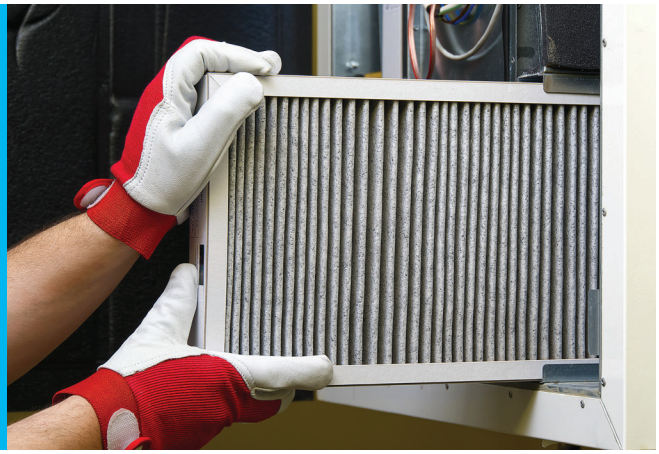
Dear <First Name>,

Trying to keep your energy costs down this summer? An Advanced A/C Tune-up can make a big difference. Offered at no additional cost to you, this comprehensive service helps keep you cool while boosting your A/C unit's energy efficiency by **up to 30 percent**.

Call **844-882-5746** to sign up today and a participating contractor will clean, inspect, test and measure your A/C unit to ensure it's operating as efficiently as possible.

Advanced A/C Tune-up benefits:

- Reduce cooling costs
- Boost cooling performance and humidity control
- Prevent costly repairs and breakdowns
- Help your A/C last longer and work more efficiently
- Get a $250 value at no out-of-pocket cost to you



Don't wait to be cool.

Scan the code or contact us at **844-882-5746** or **ogehvac@clearesult.com** to sign up today.

Repairs and additional charges may apply. Home A/C unit must be in working order. Older refrigerants, such as R-22, are not covered. Systems with under 50 percent of the recommended refrigerant levels are ineligible.

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Commercial offerings (continued)

Commercial Midstream Instant Incentive

OG&E provides commercial customers with instant rebates on select LED lighting and ENERGY STAR certified kitchen equipment at participating lighting and kitchen distributors.

Schools and Government Efficiency Program

We provide educational, government, public and nonprofit facilities with multiple opportunities for incentives and consultation for various energy-efficient projects, including new construction, retrofits and other upgrades.

Continuous Energy Improvement (CEI) Program

Under the CEI Program, OG&E offers incentives for qualified commercial, industrial and school customers that partner with OG&E's consultants to help them identify and implement low-cost or no-out-of-pocket-cost energy-saving changes.

The energy-saving possibilities are endless.

With rates among the lowest in the country, OG&E will never stop finding ways to help Oklahoma save energy and money.

Get started.

To learn more about all the ways OG&E can help you save energy, visit **OGE.com** or call **844-882-5746** today.

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OKLAHOMA

ENERGY EFFICIENCY PROGRAMS

With a wide variety of programs, services and incentives designed to help you save energy, OG&E is your go-to source for all things efficiency.

OG&E®

We Energize Life

Residential offerings

Residential Solutions Program

Schedule an In-Home Energy Assessment to get $750 worth of energy-saving products and expertise for no out-of-pocket costs. This program identifies energy-saving improvements in your home by providing a free online Home Energy Profile and walk-through In-Home Energy Assessment at no out-of-pocket cost to you.

With no out-of-pocket fees associated, signing up has never been smarter.

- Create an online energy profile.
- Schedule an In-Home Energy Assessment.
- A certified energy advisor will perform a complete walkthrough of your home.
- Qualify for comfort-enhancing, energy-saving improvements like attic insulation, air and duct sealing, LEDs, advanced power strips and more—at no out-of-pocket cost .

Visit **OGE.com/HEEP** to learn more and schedule your Energy Assessment today.

Rebates

To offset the costs of energy efficiency improvements, OG&E offers rebates toward a number of energy efficiency improvements, including duct and air sealing, attic and wall insulation, ENERGY STAR® certified windows and pool pumps.

Multi-Family Efficiency Program

Own or live in a residential apartment or multi-family unit? OG&E offers many of the same rebates for multi-family customers, such as property assessments, air sealing, duct sealing, A/C tune-ups and more.

Consumer Products

This program offers instant in-store discounts at select retailers on ENERGY STAR certified LED lighting, advanced power strips, room A/C window units, room air purifiers, water dispensers and bathroom vent fans.

HVAC Replacement and Tune-Up

OG&E offers incentives and rebates toward qualified HVAC replacements to offset project costs and lower your energy bill, as well as A/C tune-ups for no out-of-pocket cost for qualifying units.

Weatherization

This program provides energy efficiency upgrades at no additional cost to customers who own or rent a single-family home or duplex. These upgrades will help lower energy costs and increase comfort and safety in your home.

Student Energy Education LivingWise

Got a sixth grader at home? OG&E teams up with local schools to provide them with educational kits, at no additional cost, that can teach students how to save energy at home and in the classroom.

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We Energize Life

Commercial offerings

Large Commercial & Industrial Solutions

When completed on a large scale, a few energy-saving upgrades can have an enormous impact on a business's bottom line. This program helps business owners identify the most cost-effective energy efficiency opportunities and provides incentives based on how much is saved.

Small Business Solutions

For smaller commercial facilities, qualifying energy-efficient project costs could be covered up to 90 percent through the program when doing lighting or refrigeration upgrades. It all starts with a walk-through evaluation with no out-of-pocket cost.

LET'S DO **LUNCH.**

You're cordially invited to our Small Business Summit.

RSVP today to see what we can do for your business during this informal, complimentary lunch.

When:

Where:

OG&E We Energize Life

OG&E SMALL BUSINESS **SUMMIT LUNCH**

Topics may include:

- **Incentives** that can cover up to 90 percent of your project costs
- **A/C Tune-ups** to improve your A/C unit's efficiency by up to 30 percent
- **Instant rebates** on new lighting and kitchen equipment
- **Ways to save** energy and boost your bottom line

We look forward to hearing from you!

SCAN HERE TO RSVP

OR VISIT

https://forms.office.com/r/PkVa84297W

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OKLAHOMA

OG&E CONTINUOUS ENERGY IMPROVEMENT

SCHOOLS

OG&E's Continuous Energy Improvement (CEI) Program helps facility managers identify and implement low-cost energy efficiency projects.

Benefits of CEI:

- Identify low and no-out-of-pocket-cost energy-saving opportunities.
- Forecast and track performance through statistical energy models.
- Network and learn best practices from other participants.
- Continually improve through one-on-one coaching, technical tools and educational resources.
- Maximize savings with support from OG&E's full portfolio of commercial programs.
- Receive an incentive of $0.02 per annual kWh saved.

"OG&E has been a tremendous partner with Mustang Schools! We try to tap into every program that is offered in order to reduce our energy costs and be the best possible stewards of our taxpayers' dollars."

Alan Green
Chief Operations Officer
Mustang Public Schools

OG&E® We Energize Life

HOW CONTINUOUS ENERGY IMPROVEMENT WORKS

Ongoing series of cohort workshops

Customized energy engineering

Optimizing existing equipment and operations

Energy performance tracking

Customized on-site and virtual support

Contact us for more information:

844-882-5747

ceep@oge.com

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OKLAHOMA

OG&E CONTINUOUS ENERGY IMPROVEMENT

INDUSTRIAL

OG&E's Continuous Energy Improvement (CEI) Program helps facility managers identify and implement low-cost energy efficiency projects.

Benefits of CEI:

- Identify low and no-out-of-pocket-cost energy-saving opportunities.
- Forecast and track performance through statistical energy models.
- Network and learn best practices from other participants.
- Continually improve through one-on-one coaching, technical tools and educational resources.
- Maximize savings with support from OG&E's full portfolio of commercial programs.
- Receive an incentive of $0.02 per annual kWh saved.

"The CEI program tied in seamlessly with our sustainability efforts on campus and reinforced the use of continuous improvement methods to develop a robust energy program for our hospitals."

Joshua Ashlock, MBA, CHFM, CHC
Director of Facilities Engineering
OU Medical Center

OG&E® We Energize Life

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HOW CONTINUOUS ENERGY IMPROVEMENT WORKS

Ongoing series of cohort workshops

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Contact us for more information:

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OG&E'S CONTINUOUS ENERGY IMPROVEMENT PROGRAM

DAILY **ENERGY-SAVING ACTIONS**

Our schools are participating in an innovative program aimed at reducing our energy costs by incorporating energy-saving best practices into our daily routines. Your actions will add up to significant savings!

Building

- ☐ Make sure all windows and doors to the outside are closed and locked.
- ☐ Close all blinds and window coverings.
- ☐ Close all interior doors separating spaces (gyms, auditoriums and entryways).
- ☐ Report any facility damage or repairs to the facilities team.

Water

- ☐ Check all drinking fountains, faucets, showers and toilets for leaks; report any leaks to the facilities team.

Miscellaneous

- ☐ If performing major floor projects such as shampooing or waxing, do so with energy efficiency in mind, keep exterior doors shut and light only those areas that are being cleaned. Coordinate these activities with the facility maintenance departments.

Lighting & Devices

- ☐ Turn on lights only where work is taking place.
- ☐ Turn off lighting in all unoccupied areas.
- ☐ Check computer labs and make sure all computers and monitors are switched off.
- ☐ Turn off all display case lighting and hallway lighting.
- ☐ Turn off all cleaning room or janitorial closet lights when not in use.
- ☐ When the building is not occupied, make sure all interior lights are turned off except exit and emergency lighting.

Security

- ☐ Lock all secure areas.

Miscellaneous Items

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PROGRAMA DE MEJORAS DE ENERGÍA CONTINUA DE OG&E

ACCIONES DIARIAS PARA **AHORROS DE ENERGÍA**

Nuestras escuelas están participando en un programa innovador con el propósito de reducir sus costos de energía al incorporar prácticas de ahorros energéticos en nuestras rutinas diarias. ¡Sus acciones pueden generar ahorros significativos!

Edificio

- ☐ Asegúrese de que todas las ventanas y puertas que dan hacia el exterior estén cerradas.
- ☐ Cierre todas las persianas y cubiertas de ventanas en todas las áreas.
- ☐ Cierre todas las puertas interiores que separan los espacios (gimnasios, auditorios y entradas).
- ☐ Reporte cualquier daño o reparaciones a la instalación al equipo de instalaciones.

Agua

- ☐ Revise todas las fuentes de agua, grifos, regaderas e inodoros para ver si hay fugas; reporte fugas al equipo de la instalación.

Miscelánea

- ☐ Si realiza proyectos mayores en el piso como lavar o encerar, hágalo con la eficiencia energética en mente y mantenga las puertas al exterior cerradas y solo ilumine las áreas que está limpiando. Coordine estas actividades con los departamentos de mantenimiento de la instalación.

Iluminación y dispositivos

- ☐ Solo encienda las luces donde se realiza el trabajo.
- ☐ Apague las luces en áreas no ocupadas.
- ☐ Revise el laboratorio de computadoras y asegúrese de que todas las computadoras y monitores estén apagados.
- ☐ Apague las luces en las vitrinas de exhibición y en los corredores.
- ☐ Apague las luces en el salón de limpieza o el armario de conserjería cuando no están en uso.
- ☐ Cuando el edificio no esté ocupado, asegúrese de apagar todas las luces interiores, excepto las luces de salida y de emergencia.

Seguridad

- ☐ Cierre todas las áreas seguras.

Artículos misceláneos

OG&E® *Energía para la Vida*

OGE.com

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OG&E'S CONTINUOUS ENERGY IMPROVEMENT PROGRAM

DAILY **ENERGY-SAVING ACTIONS**

Our schools are participating in an innovative program aimed at reducing our energy costs by incorporating energy-saving best practices into our daily routines. Your actions will add up to significant savings!

Lighting

- ☐ Turn off walk-in cooler lights when not in use.
- ☐ Turn off all storage room and office lights when unoccupied.
- ☐ Turn off service area lights and table lights once service is complete.

Equipment

- ☐ **Turn off open-air milk coolers when not in open-air use.** Timers might be available through the maintenance department to streamline this shutdown daily, on weekends and over breaks.
- ☐ Turn off steam tables, warmers and coolers immediately after service.
- ☐ Turn off ovens and cooking equipment once cooking is complete.
- ☐ Turn off screens and POS systems.
- ☐ Consolidate cooler/freezer space and unplug any coolers not in use.
- ☐ Shut off ice machines and drain during break times or if not in use for extended periods.

Exhaust Fans

- ☐ Use exhaust fans when cooking and shut off when cooking is completed in the area.
- ☐ Report any excess air being returned to the space through the exhaust fan system. (Air should be removed by the fan and not introduced back into the space.)

Water

- ☐ Ensure that faucets are turned off when not in use and that any leaks are reported immediately.
- ☐ Ensure that dish washing equipment is on only when washing is active.

Miscellaneous Items

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PROGRAMA DE MEJORAS DE ENERGÍA CONTINUA DE OG&E

ACCIONES DIARIAS PARA **AHORROS DE ENERGÍA**

Nuestras escuelas están participando en un programa innovador con el propósito de reducir sus costos de energía al incorporar prácticas de ahorros energéticos en nuestras rutinas diarias. ¡Sus acciones pueden generar ahorros significativos!

Iluminación

- ☐ Apague las luces del refrigerador de paso cuando no esté en uso.
- ☐ Apague las luces de todos los cuartos de almacenaje y de las oficinas cuando no estén ocupadas.
- ☐ Apague las luces en áreas de servicio y de las mesas una vez el servicio esté completo.

Equipo

- ☐ **Apague los refrigeradores al aire libre de leche cuando no están en uso al aire libre.** Puede haber temporizadores disponibles a través del departamento de mantenimiento para facilitar este proceso cada día, los fines de semana y en vacaciones.
- ☐ Apague las mesas de vapor, calentadores y refrigeradores inmediatamente al terminar el servicio.
- ☐ Apague los hornos y equipos de cocina una vez termine de cocinar.
- ☐ Apague las pantallas y sistemas de punto de venta.
- ☐ Consolide el espacio del refrigerador/congelador y desenchufe refrigeradores que no están en uso.
- ☐ Apague las máquinas de hielo y drénelas durante tiempos sin trabajo o si no están en uso por un tiempo prolongado.

Ventiladores de extracción

- ☐ Use los ventiladores de extracción al cocinar y apáguelos una vez se termine de cocinar en el área.
- ☐ Reporte cualquier exceso de aire que esté retornando al espacio a través del sistema del ventilador de extracción. (El aire debe ser extraído por el ventilador, no retornado al espacio.)

Agua

- ☐ Asegúrese de que los grifos estén cerrados cuando no estén en uso y que las fugas sean reportadas inmediatamente.
- ☐ Asegúrese de que el equipo de lavado esté encendido solo cuando se está lavando.

Artículos misceláneos

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ENERGY-SAVING EXPERTISE, AT YOUR SERVICE

Offered at no out-of-pocket cost to you, our In-Home Energy Assessment provides **up to $750** worth of energy-saving recommendations, insights and upgrades.

Book yours today at OGE.com/HEA.

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PO Box 321
Oklahoma City, OK
73101-0321

SAVINGS START HERE

Valued at $750, your In-Home Energy Assessment may include:

A walk-through evaluation of your home

Blower door and thermal testing

Custom recommendations

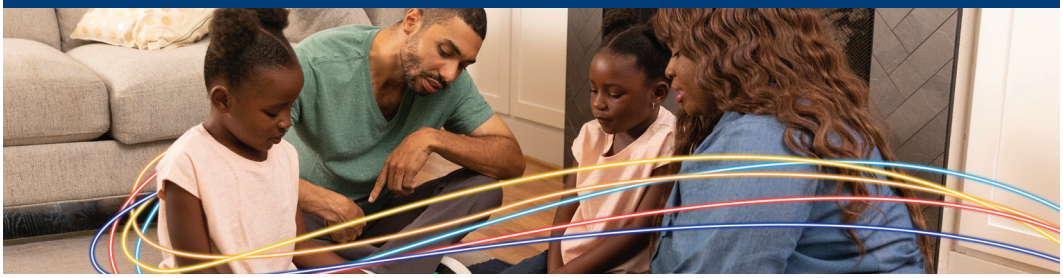
Energy-saving upgrades

Scan the code or visit ogeokres.dsmtracker.com to schedule your assessment today. Or, give us a call at 844-882-5746.

Prior program participants are not eligible.

OKLAHOMA ENERGY EFFICIENCY PROGRAMS

WAYS TO SAVE AT HOME



Residential solutions
Uncover energy-saving opportunities with an In-Home Energy Assessment.

Rebates
Get money back on qualifying home upgrades like insulation, air sealing, windows and more.

Multi-family efficiency
Renters and multi-family property owners can receive energy-saving improvements at no added cost.

Consumer products
Save instantly on select ENERGY STAR® certified products at participating stores.

HVAC replacement and tune-up
Boost your home's HVAC efficiency with an Advanced A/C Tune-up or save on a replacement.

Weatherization
Qualified customers can receive attic insulation and other home upgrades for no out-of-pocket cost.

Student energy education LivingWise
We team up with local schools to teach students how to save energy at home and school.

Get started.

Explore more savings at **OGE.com/HEEP** or call **844-882-5746** today.

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SMALL BUSINESS **SOLUTIONS**

Trying to lower your operating costs?

Let us give you a hand. We offer a variety of solutions to help small businesses save energy and money—including incentives that can cover up to 90 percent of qualifying energy-efficient upgrades.

Eligible projects include:

- Facility assessments
- Indoor and outdoor LED conversions
- Refrigeration door gaskets
- Refrigeration strip curtains
- A/C tune-ups

CONTACT US TO GET STARTED

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SAVINGS WORTH **STUDYING**

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BRING HOME **THE SAVINGS**

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SAVINGS THAT **FEEL RIGHT AT HOME**

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HOME IS **WHERE THE SAVINGS ARE**

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BUILT FOR EFFICIENCY. DESIGNED FOR LIFE.

OKLAHOMA

The way your home is built can make a huge difference to your monthly energy bill. That's why OG&E Positive Energy Homes are built from the ground up to meet our high standards for quality, comfort and energy efficiency. See the difference for yourself during this spring's Parade of Homes.

To learn more or find a Positive Energy Home builder in your area, please email **ogepositiveenergyhomes@clearesult.com**.

2024 COHBA PARADE OF HOMES SPRING FESTIVAL

APRIL 19–21 AND APRIL 26–28

DOWNTOWN

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Wheeler Home
1921 Pioneer Street
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Wheeler District
Wheeler Home
990 Hangar Drive
(405) 697-0206

EDMOND

Timberland Creek
Bear Creek Homes
521 Old Creek Road
(405) 593-9938

Timberland Creek
Bear Creek Homes
516 Old Creek Road
(405) 593-9938

The Landing at Cedar Valley
Covenant Home Builders LLC
11380 Skyline View
(405) 823-3664

The Springs at Valencia
Landmark Fine Homes
2510 NW 179th Street
(405) 410-3914

NORMAN

The Springs at Native Plains
Landmark Fine Homes
16200 Native Drive
(405) 410-3914

Carrington Lakes
Landmark Fine Homes
4431 Bellingham Court
(405) 410-3914

Pine Creek
Landmark Fine Homes
411 Campfire Lane
(405) 410-3914

Cedar Hills
MIRAGE HOMES LLC
526 Cherrybark Drive
(405) 735-1114

NORTHWEST

Coeur D'Alene
Covenant Home
Builders LLC
10721 Coeur Court
(405) 823-3664

Northwood Village
Mirage Homes LLC
12805 NW 141st Circle
(405) 735-1114

SOUTHWEST

Crystal Hill Estates
1st Oklahoma Homes
9317 SW 45th Court
(405) 701-5557

Cedar Ridge at Morgan Creek
Beacon Homes
9300 SW 41st Street
(405) 358-8615

WEST

Prairie Estates
Landmark Fine Homes
9008 Prairie Valley Drive
(405) 410-3914

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Tulsa, OK

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Oklahoma City, OK

ALL ABOUT COMFORT LLC
405-436-0047
Oklahoma City, OK

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405-721-6300
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Muskogee, OK

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Moore, OK

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405-708-8944
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405-265-4695
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405-237-3809
Oklahoma City, OK

SUNTECH HEAT & AIR
405-348-9743
Edmond, OK

TEMPERATUREPRO OKC
405-256-4432
Norman, OK

WISDOM REFRIGERATION, LLC
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Yukon, OK

SUNTECH HEAT & AIR
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Edmond, OK

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ENERGY SAVINGS FOR NONPROFITS

WHERE THERE'S A GOODWILL, THERE'S A WAY

After completing a full lighting retrofit of their corporate office with financial and technical assistance from OG&E, Goodwill Industries of Central Oklahoma is **saving over $19,000 a year** in energy costs.

Savings start with a bright idea

OG&E's Schools and Government Efficiency Program provides nonprofit organizations with recommendations, guidance and incentives for energy-saving upgrades. Goodwill Industries of Central Oklahoma recently turned to us for help with a full lighting overhaul at their corporate office in Oklahoma City.

After assessing the building's lighting needs, OG&E participating contractors replaced 361 fluorescent, halogen and metal halide bulbs with energy-efficient LED bulbs. The new bulbs use only a fraction of the energy, are safer and more durable, and can last years longer.

Shining a light on Goodwill's good deeds

OG&E provided Goodwill with over $29,000 in incentives, enough to cover 50 percent of the total project costs. The new lighting has also reduced their annual energy costs by an estimated $19,518. All told, the project is expected to pay for itself in just two years.

"We really appreciate OG&E helping Goodwill convert all its retail stores," said Brian Alton, Director of Property Management at Goodwill Industries of Central Oklahoma. *"This helps keep Goodwill moving forward in upgrading its stores to LEDs."*

With more lighting projects on the horizon, Goodwill continues to light the way for nonprofit energy savings.

SAVINGS AT A GLANCE

207,641 kWh
SAVED

$19,518
ESTIMATED ANNUAL SAVINGS

$29,069
INCENTIVES PROVIDED BY OG&E

2 years
ESTIMATED PAYBACK PERIOD

Contact us to get started

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ceep@oge.com

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ADVANCED A/C TUNE-UP
COMMERCIAL CONTRACTORS

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Shawnee, OK

A&T Mechanical
Heat & Air Services, Inc.
405-810-8891
Edmond, OK

Above and Beyond Heating and Cooling, LLC
405-657-2484
Edmond, OK

AKT Mechanical LLC
405-549-7939
Oklahoma City, OK

DFW Mechanical Group LLC
972-444-9584
Oklahoma City, OK

Hollifield Service Co LLC
918-781-3993
Muskogee, OK

HVAC Services By Vu LLC
405-708-8944
Oklahoma City, OK

Ja-Co Heating and Air LLC
580-279-6231
Ada, OK

Lieber Mechanical
405-265-4695
Yukon, OK

Lloyd's Heat & Air, Inc.
580-233-4106
Enid, OK

Meares Mechanical LLC
405-446-1598
Mustang, OK

Pronto Heating and Air LLC
405-237-3809
Oklahoma, OK

TemperaturePro OKC
405-256-4432
Norman, OK

Wisdom Refrigeration, LLC
580-323-2003
Weatherford and
Oklahoma City, OK

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Edmond, OK

Above and Beyond Heating and Cooling, LLC
405-657-2484
Edmond, OK

Airco Service, Inc
918-252-5667
Oklahoma City and Tulsa, OK

AKT Mechanical LLC
405-549-7939
Oklahoma City, OK

All About Comfort LLC
405-436-0047
Oklahoma City, OK

Comfort Concepts Heat & Air
405-494-7444
Yukon, OK

Direct Air, LLC
405-778-2896
Norman, OK

Familia Mechanical LLC
405-998-4100
Edmond, OK
Additional languages spoken: Spanish

Hembree Heat and Air LLC
580-579-7008
Hinton, OK

Hollifield Service Co LLC
918-781-3993
Muskogee, OK

HVAC Pros
405-618-3438
Moore, OK

HVAC Services By Vu LLC
405-708-8944
Oklahoma City, OK

J Dent Property Solutions
405-546-1850
Oklahoma City, OK

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580-279-6231
Ada, OK

Lieber Mechanical
405-265-4695
Yukon, OK

Lloyd's Heat & Air, Inc.
580-233-4106
Enid, OK

Lovecchio Mechanical Heat & Air LLC
405-999-2656
Purcell, OK

Oklahoma Climate Solutions, LLC
405-503-9833
Moore, OK

Perfect Climate Heating & Air, LLC
405-602-5226
Moore, OK

Platinum Heat and Air LLC
405-818-4093
Yukon, OK

Pronto Heating and Air LLC
405-237-3809
Oklahoma, OK

Seemly Air LLC
405-651-3170
Oklahoma City, OK

Serrato Heat and Air
405-535-1230
Oklahoma City, OK

TemperaturePro OKC
405-256-4432
Norman, OK

Turk Heating and Air LLC
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Mustang, OK

Wisdom Refrigeration, LLC
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SMALL BUSINESS SAVINGS **ARE ON THE WAY.**

We're hitting the road this summer to help small businesses like yours stay cool and save with an Advanced A/C Tune-up.

A technician will be in your neighborhood September 23–27 to provide this state-of-the-art service at **no additional cost to you**. Sign up today to secure your appointment.

Benefits of an Advanced A/C Tune-up:

- Improve your A/C unit's efficiency by up to 30 percent.
- Reduce maintenance and cooling costs.
- Enhance comfort and humidity control.
- Help your A/C last longer and work better.

Scan to sign up.

Questions?
Contact our energy-saving experts at ceep@oge.com.

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SMALL BUSINESS SAVINGS **ARE ON THE WAY.**

We're hitting the road this summer to help small businesses like yours stay cool and save with an Advanced A/C Tune-up.

A technician will be in your neighborhood August 26–30 to provide this state-of-the-art service at **no additional cost to you**. Sign up today to secure your appointment.

Benefits of an Advanced A/C Tune-up:

- Improve your A/C unit's efficiency by up to 30 percent.
- Reduce maintenance and cooling costs.
- Enhance comfort and humidity control.
- Help your A/C last longer and work better.

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We're hitting the road this summer to help small businesses like yours stay cool and save with an Advanced A/C Tune-up.

A technician will be in your neighborhood July 15–19 to provide this state-of-the-art service at **no additional cost to you**. Sign up today to secure your appointment.

Benefits of an Advanced A/C Tune-up:

- Improve your A/C unit's efficiency by up to 30 percent.
- Reduce maintenance and cooling costs.
- Enhance comfort and humidity control.
- Help your A/C last longer and work better.

Scan to sign up.

Questions?
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APUNTAR. ROCIAR. **SALVAR.**

UNA FORMA MÁS DE AHORRAR EN CASA, **PRESENTADA POR OG&E**

En cualquier lugar donde puedan colarse corrientes de aire y plagas, la energía puede filtrarse. Use esta espuma en aerosol de cortesía para llenar y sellar los pequeños huecos que desperdician energía en su hogar, incluso alrededor de ventanas, puertas, escotillas del ático, rejillas de ventilación de secadora, plomería y tomacorrientes.

Ventanas | Puertas | Escotillas del ático | Rejillas de ventilación de secadora | Plomería | Tomacorrientes

Beneficios del sellador de espuma en aerosol:

- **Reduce los costos de energía**
- **Sella las corrientes de aire, la humedad y las plagas**
- **Mejora la comodidad durante todo el año**
- **Duradero y fácil de usar**

Revise todas las instrucciones y precauciones antes de usar.

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POINT. SPRAY. **SAVE.**

ONE MORE WAY TO SAVE AT HOME, **BROUGHT TO YOU BY OG&E**

Anywhere drafts and pests can sneak in, energy can leak out. Use this complimentary spray foam to fill and seal the small, energy-wasting gaps in your home, including around windows, doors, attic hatches, dryer vents, plumbing and outlets.

Benefits of spray foam sealant:

- **Reduces energy costs**
- **Seals out drafts, moisture and pests**
- **Improves year-round comfort**
- **Long-lasting and easy to use**

Please review all directions and cautions before use.

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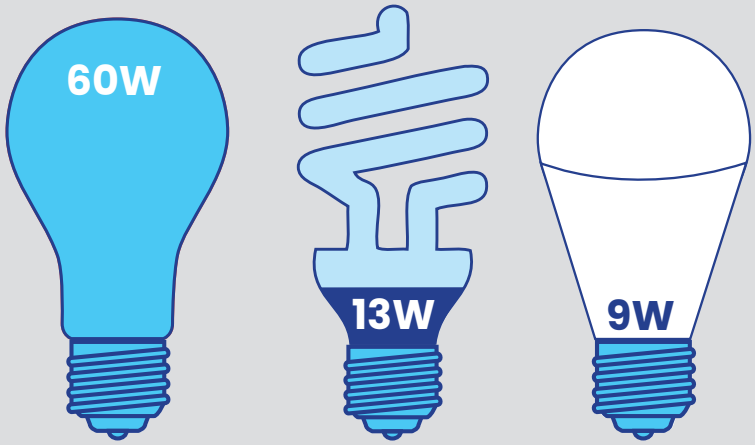
SHINE ON **THE SAVINGS**

You can have a lower energy bill and a more energy-efficient home. **It all starts with ENERGY STAR® certified LEDs.**

By replacing your traditional incandescent light bulbs with LED bulbs, you'll lower energy use and maintenance costs.

Here's an overview of how LEDs can make a difference in your home.



Watts = Energy used | Lumens = Brightness

The bright side

ENERGY STAR certified LEDs provide the same brightness (lumens) using less energy (watts). Select the light output that matches your old incandescent bulbs and enjoy the long-term savings.

How many lumens do you need?

LUMENS	450+	800+	1100+	1600+
LED	5W	9W	13W	17W
CFL	11W	13W	20W	23W
STANDARD	40W	60W	75W	100W

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CHOOSING THE **RIGHT COLOR**

Light color is measured on the Kelvin (K) temperature scale, with a lower K number giving off a warmer, yellowish glow and a higher K providing cooler, bluer light.

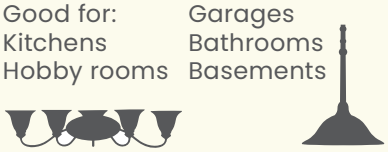
Warm white, soft white

Good for:
Living rooms
Family rooms
Bedrooms

WALL SCONCES AND LAMPS

Cool white, natural white

Good for:
Kitchens
Hobby rooms
Garages
Bathrooms
Basements

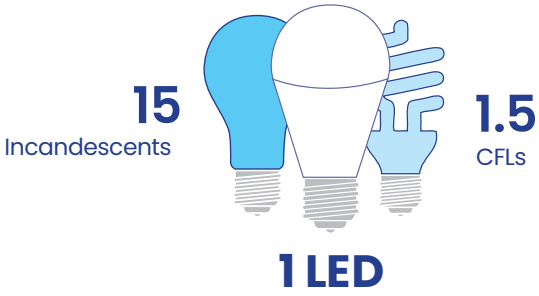


BATHROOM VANITIES AND PENDANT FIXTURES

Natural or daylight

Good for:
Reading areas
Detail-oriented activities

TRACK LIGHTING, RECESSED CANS AND OUTDOOR EXPOSED



A light that lasts

A single LED can last more than 25,000 hours, which is up to 15 times longer than an incandescent and 1.5 times longer than a CFL.

Visit **OGE.com/efficiency** to learn more about ways to lower your energy bill.

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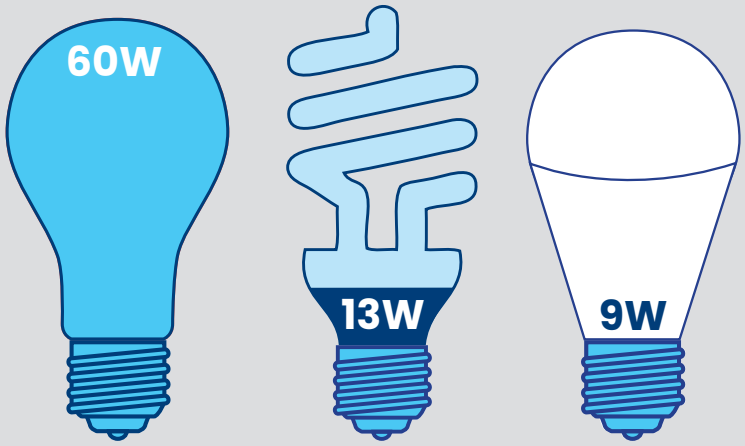
DISFRUTE LOS **AHORROS**

Usted puede tener una factura de electricidad más baja y un hogar energéticamente eficiente. **Todo comienza con los focos LED con certificación ENERGY STAR®.**

Si reemplaza los focos incandescentes de iluminación tradicional por focos LED, reducirá su consumo de energía y costos de mantenimiento.

A continuación le mostramos cómo los focos LED pueden marcar una gran diferencia en su hogar.



Incandescente | CFL | LED

Vatios = Energía utilizada | Lúmenes = Brillo

El lado brillante

Los focos LED con certificación ENERGY STAR ofrecen el mismo brillo (lúmenes) utilizando menos energía (vatios). Seleccione la intensidad luminosa que corresponda a sus antiguos focos incandescentes y disfrute de los ahorros a largo plazo.

¿Cuántos lúmenes necesita?

LÚMENES	450+	800+	1100+	1600+
LED	5W	9W	13W	17W
CFL	11W	13W	20W	23W
ESTÁNDAR	40W	60W	75W	100W

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CÓMO ELEGIR EL **COLOR ADECUADO**

El color de la luz se mide en la escala de temperatura Kelvin (K); si el número Kelvin es más bajo, producirá un brillo más cálido y con tono amarillento; y si el número Kelvin es más alto, producirá una luz más fría y con tono azulado.

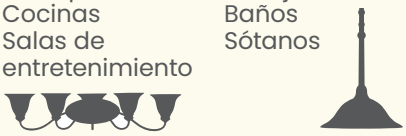
Cálida, blanca cálida

Ideal para:
Salas
Áreas de estar
Habitaciones

LÁMPARAS DE PARED Y DE MESA

Neutra, blanca fría

Ideal para:
Cocinas
Salas de entretenimiento
Garajes
Baños
Sótanos

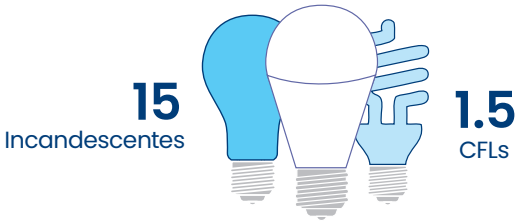


LÁMPARAS COLGANTES Y DE BAÑO

Natural o de día

Ideal para:
Áreas de lectura
Áreas para actividades específicas

LÁMPARAS DIRECCIONALES, LUCES EMPOTRADAS Y LUCES PARA EXTERIORES



Iluminación que dura más

Un solo foco LED puede durar más de 25,000 horas, es decir, hasta 15 veces más que un foco incandescente y 1.5 veces más que un foco CFL.

Visite **OGE.com/efficiency** para conocer más sobre las diferentes formas de reducir su factura de electricidad.

OGE® *Energía para la Vida*

OKLAHOMA

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UPGRADE YOUR FACILITY
AT NO ADDED COST

Trying to lower your operating costs?

Get in touch today, and a participating contractor will recommend and install a variety of simple, energy-saving upgrades at little to no additional cost to you.

Your upgrades may include:

- Faucet aerators
- High-efficiency showerheads
- Pre-rinse spray valves
- Screw-in LED bulbs
- Weatherstripping
- Overhead door weatherstripping
- Packaged terminal A/C (PTAC) seals
- Strip curtains
- Gaskets

CONTACT US TO GET STARTED

844-882-5747
ceep@oge.com

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BUILT FOR EFFICIENCY. DESIGNED FOR LIFE.

The way your home is built can make a huge difference to your monthly energy bill. That's why OG&E Positive Energy Homes are built from the ground up to meet our high standards for quality, comfort and energy efficiency.

To learn more or find a Positive Energy Home builder in your area, please email **ogepositiveenergyhomes@clearesult.com**.

2024 COHBA PARADE OF HOMES FALL FESTIVAL

SEPTEMBER 27-29 AND OCTOBER 4-6

DOWNTOWN

Wheeler District
Wheeler Home
938 Hangar Dr.
405-697-0206

Wheeler District
Wheeler Home
956 Hangar Dr.
405-697-0206

EAST

Broadmoore Heights
Homes by Taber
2800 Heather Haven
405-295-0630

Westfall
Homes by Taber
13104 NE 9th St.
405-295-0630

EDMOND

Prairie Meadows
Homes by Taber
13815 Saltgrass Dr.
405-295-0630

Twin Silos
Homes by Taber
15413 Bedford Rd.
405-295-0630

Lone Oak North
Homes by Taber
16224 Verbena Cir.
405-295-0630

Cordillera Ranch
Homes by Taber
14101 Magnolia Ln.
405-295-0630

NORMAN

Pine Creek
Landmark Fine Homes
411 Campfire Ln.
405-410-3914

The Springs at Native Plains
Landmark Fine Homes
16200 Native Dr.
405-410-3914

NORTHWEST

Nichols Creek
Homes by Taber
9121 NW 121st Terrace
405-295-0630

Highland Ranch
Homes by Taber
11013 NW 93rd Terrace
405-410-3914

Britton Farms
Homes by Taber
9221 NW 92nd Terrace
405-295-0630

The Springs at Cypress Plains
Landmark Fine Homes
16304 Blue Mist Ln.
405-410-3914

SOUTHWEST

Sweetwater
Home Creations
9101 Sweetwater Blvd.
405-364-9999

Cedar Ridge at Morgan Creek
Mirage Homes LLC
9301 SW 44th Terrace
405-735-1114

Palermo Place
Home Creations
1001 SW 139th St.
405-364-9999

Sandoval
Mirage Homes LLC
3009 SW 133rd Terrace
405-735-1115

Carrington Lakes
Landmark Fine Homes
4108 SW 129th St.
405-410-3914

WEST

The Sycamores
Home Creations
11436 SW 11th St.
405-364-9999

Scissortail Crossing
Homes by Taber
12449 SW 30th St.
405-295-0630

Canyons
Homes by Taber
10533 SW 52nd St.
405-295-0630

Prairie Estates
Landmark Fine Homes
9008 Prairie Valley Dr.
405-410-3914

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WAYS TO SAVE AT WORK

Large Commercial & Industrial
Save on high-efficiency upgrades like LED and HVAC equipment, lighting controls, building automation and more.

Continuous Energy Improvement
Receive expert guidance and incentives for making low-cost and no-cost improvements to your business.

Midstream
Receive instant rebates on select ENERGY STAR® certified lighting and kitchen equipment at participating distributors.

Small Business Direct Install
Save up to 90 percent on qualifying energy-efficient upgrades for your small business.

Schools and Government
Improve your school or government facility with incentives on energy-saving lighting, HVAC equipment and more.

Commercial A/C Tune-ups
Tune up your comfort and bottom line with an Advanced A/C Tune-up from a participating trade ally.

Ready to get started?
Say hello at **ceep@oge.com** or explore more ways to save at **OGE.com/CEEP**.

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MANERAS DE AHORRAR EN SU EMPRESA

Comerciales e Industriales
Ahorre en mejoras de eficiencia energética como equipo LED y de climatización, controles de la iluminación, automatización del edificio y más.

Mejoras Continuas de Energía
Reciba orientación de expertos e incentivos para realizar mejoras de bajo costo y sin costo adicional a su negocio.

Distribuidores Participantes
Reciba reembolsos al instante en iluminación y equipo de cocina selectos con certificación ENERGY STAR® de distribuidores participantes.

Instalación Directa para Empresas Pequeñas
Ahorre hasta 90 por ciento en mejoras calificantes de alto rendimiento.

Escuelas y Gobierno
Mejore su escuela o instalación gubernamental con incentivos en iluminación, equipo HVAC y más.

Ajustes de Aire Acondicionado Comercial
Ajuste su comodidad y su presupuesto con una programación avanzada del aire acondicionado que puede realizar uno de nuestros representantes.

¿Listo para comenzar?
Envíe sus preguntas a **ceep@oge.com** o descubra otras maneras de ahorrar en **OGE.com/CEEP**.

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OG&E COMMERCIAL ADVANCED **A/C TUNE-UP PROGRAM**

Saving energy has never been cooler.

Want to know something cool? A state-of-the-art OG&E Advanced A/C Tune-up can improve the energy efficiency of your A/C unit by **up to 30 percent**, resulting in longer-lasting, better-working equipment with improved comfort and humidity control. We'll even cover the cost, based on the tonnage of the unit (additional charges may apply).

During your tune-up, a participating contractor will:

- Measure indoor airflow and recommend adjustments if needed
- Clean outdoor condenser coils
- Inspect indoor coil and blower and clean as needed
- Test your A/C to measure its cooling output

Save up to
$400
on an OG&E Advanced A/C Tune-up.

Scan to enroll

Contact us:
844-882-5747
ceep@oge.com
Learn more at **OGE.com/Business**

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RESIDENTIAL ADVANCED **A/C TUNE-UPS**

Tune up your business by offering our exclusive Advanced A/C Tune-ups at no additional cost to residential customers.

Earn incentives.
For each completed tune-up, you'll receive:

- **$250 per tune-up** for single-family homes
- **$100 per tune-up** for multi-family homes

Offer rebates.
Give your customers access to exclusive rebates on high-efficiency HVAC replacements, including:

- **$300/ton** for 17.2+ SEER2 central A/C, heat pumps or mini-split systems*
- **$600/ton** for geothermal heat pump systems

**Limit of two (2) rebates per installation address, up to $3,000 per system.*

Satisfy customers.
Advanced A/C Tune-ups are offered at no additional cost to customers and can improve the efficiency of their A/C units by up to **30 percent**.

Ready to be cool?

We're always on the hunt for talented HVAC contractors. Reach out to us today at **ogehvac@clearesult.com** to join the team.

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COMMERCIAL ADVANCED **A/C TUNE-UPS**

Keep your commercial customers cool, happy and coming back with our exclusive Advanced A/C Tune-ups.

Gain leads.
Interested customers in your area will be funneled your way—allowing you to tap into a rich source of new revenue.

Earn incentives.
For each completed tune-up, you'll receive:

- **$200** for 1–5 ton systems
- **$250** for 6–25 ton systems
- **$400** for 26–80 ton systems

Satisfy customers.
Advanced A/C Tune-ups use state-of-the-art diagnostic tools to boost each unit's cooling output and energy efficiency.

Ready to be cool?

We're looking for talented commercial HVAC contractors to join our team. Contact us today at **ogehvac@clearesult.com** to get started.

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WAYS TO SAVE AT HOME

Residential Solutions
From no-out-of-pocket assessments and multi-family upgrades to home improvement rebates, we're here to help you start saving.

Consumer Products
Apply for rebates on advanced thermostats or find in-store discounts on select ENERGY STAR® certified products.

Residential A/C Tune-ups
Get your HVAC system back to its best with an Advanced A/C Tune-up or save on a new, high-efficiency replacement.

Positive Energy Homes
Every new Positive Energy Home meets our strict standards for comfort, energy savings and overall quality.

Home Weatherization
Qualifying customers can receive energy-saving attic insulation, air and duct sealing, LED bulbs and more at no additional cost.

Welcome home more savings at **OGE.com/efficiency**.

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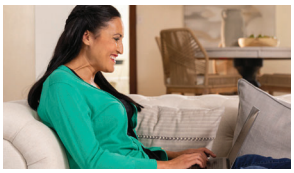
MANERAS DE AHORRAR EN CASA

Soluciones Residenciales
Estamos aquí para ayudarle a ahorrar, desde evaluaciones gratuitas y actualizaciones a hogares multifamiliares hasta reembolsos por mejoras a su casa.

Productos del Consumidor
Solicite reembolsos para termostatos avanzados y cargadores o encuentre descuentos en la tienda para productos selectos con certificación ENERGY STAR®.



Ajustes de aire acondicionado residencial
Mantenga su sistema de climatización (HVAC) en su mejor condición con un ajuste avanzado del aire acondicionado o ahorre al reemplazar su unidad con una nueva de alto rendimiento.

Casas "Positive Energy®" (Energía Eficiente)
Aprende más sobre las posibilidades de ahorro de energía al construir una Casa "Positive Energy®" (Energía Eficiente) que cumpla con nuestros estrictos estándares de comodidad, ahorros de energía y calidad de construcción.

Climatización del Hogar
Los clientes que califiquen pueden recibir sin costo adicional: aislamiento al ático, sellado de ductos y ventanas, focos LED y otras mejoras térmicas.

Bienvenido a casa con más ahorros en **OGE.com/efficiency**.

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OKLAHOMA

TUNE UP **YOUR SUMMER.**

Save more than money.

OG&E Oklahoma's Advanced A/C Tune-up is the coolest way to save on energy costs and improve your home's comfort. In one safe and easy appointment, an OG&E participating contractor can boost your A/C unit's energy efficiency by up to **30 percent**.

Benefits:

- Reduced cooling costs
- Improved comfort and humidity control
- Longer-lasting, better-working equipment
- Filter cleaned and replaced

Save up to
$250*
on an OG&E Advanced A/C Tune-up.

Eligibility

Our Advanced A/C Tune-up is available to Oklahoma OG&E residential customers who own or rent a single-family, permanent-foundation home.**

Scan to enroll

Contact us:

844-882-5746
ogehvac@clearesult.com

Learn more at **OGE.com/HEEP**

*Repairs and additional charges may apply.

**Your home A/C unit must be in working order to qualify. The OG&E Advanced A/C Tune-up is a maintenance program, not a repair program. Tune-ups are performed when the temperature is 70° F or higher with dry conditions. Funds are limited and available on a first-come, first-served basis.

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OKLAHOMA

AJUSTE **SU VERANO.**

Ahorre Más Que Dinero.

El ajuste avanzado del aire acondicionado de OG&E es la manera más efectiva de ahorrar en costos de energía y de mejorar la comodidad en su hogar. Con una cita segura y fácil, un contratista participante de OG&E puede mejorar el rendimiento de su aire acondicionado por hasta un **30 por ciento**.

Beneficios:

- Reducción de costos por aire acondicionado
- Mayor comodidad y control de la humedad
- Equipo más duradero y de mejor funcionamiento
- Limpieza y reemplazo del filtro

Ahorre hasta
$250*
en un ajuste avanzado del aire acondicionado de OG&E

Elegibilidad

Nuestro ajuste avanzado del aire acondicionado está disponible a clientes residenciales de OG&E que son propietarios o que alquilan una vivienda unifamiliar de cimiento permanente.**

Escanee para inscribirse

Comuníquese con nosotros en:

844-882-5746

ogehvac@clearesult.com

Aprenda más en **OGE.com/HEEP**

*Pueden aplicar cargos adicionales y reparaciones.

**La unidad de aire acondicionado de su hogar debe estar en funcionamiento para calificar. El ajuste avanzado del aire acondicionado de OG&E es un programa de mantenimiento, no de reparaciones. Los ajustes se llevan a cabo cuando la temperatura alcanza los 70° F o mayor en condiciones secas. Los fondos son limitados y por orden de llegada.

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WHAT TO EXPECT FROM YOUR TUNE-UP

During your Advanced A/C Tune-up, the participating contractor may perform the following services as needed:

Inspect and clean coils and blower*

Test cooling input and output

Measure and adjust airflow to manufacturer's specifications**

Adjust refrigerant levels***

Clean and replace up to 1 inch filter

Just like a car, your cooling system requires professional service to run safely and smoothly. Congratulations on taking this step toward a cooler, more energy-efficient home.

For more ways to save, contact our team at **ogehvac@clearesult.com**, or call **844-882-5746**.

**All components must be accessible for cleaning without removal.*
***Access point up to 1 inch may be required to capture airflow.*
****Systems with refrigerant levels less than 50% of data plate charge are deemed ineligible.*
R22 not covered. Additional charges may apply.
Recommended repairs/upgrades can be declined at any time.

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QUÉ PUEDE ESPERAR DE SU AJUSTE

Durante su ajuste avanzado del aire acondicionado, el contratista participante podrá llevar a cabo los siguientes servicios según sea necesario:

Inspeccionar y limpiar las espirales y el soplador*

Probar la entrada y la salida del aire frío

Medir y ajustar el flujo del aire según las pautas del fabricante**

Ajustar los niveles del refrigerante***

Limpiar y reemplazar filtros de hasta 1 pulgada

Al igual que un auto, su sistema de enfriamiento requiere servicio profesional para funcionar adecuadamente. Lo felicitamos por tomar este paso hacia un hogar más fresco y de energía más eficiente.

Para más maneras de ahorrar, comuníquese con nuestro grupo en **ogehvac@clearesult.com**, o llame al **844-882-5746**.

**Todos los componentes deben estar accesibles para limpiar sin necesidad de removerlos.*

***Punto de acceso de hasta 1 pulgada puede ser requerido para capturar el flujo del aire.*

****Los sistemas con niveles de refrigerante menores de 50 % en la carga de la placa de datos serán considerados no elegibles. R22 no está cubierto. Pueden aplicar cargos adicionales. Las reparaciones/mejoras recomendadas pueden ser rechazadas en cualquier momento.*

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QUÉ PUEDE ESPERAR DE SU AJUSTE

Notas del contratista

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SAVE ENERGY, LIVE COMFORTABLY.

Time to replace your old HVAC system?
Upgrading to a new energy-efficient model is an easy way to reduce your energy costs—and may qualify for a hefty OG&E rebate.

Get started.
Find a participating contractor to help you choose the right system for your home. For more information and how to qualify, visit **OGE.com/HEEP** or reach out to us at **ogehvac@clearesult.com**.

OG&E®
We Energize Life

Save up to
$3,000*
on heating and cooling systems.

** Funds are limited per program year. Limit two rebates per installation address, up to $3,000 per system.*

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AHORRE ENERGÍA, VIVA CÓMODAMENTE.

¿Es hora de reemplazar su antiguo sistema HVAC?

Actualizar a un nuevo modelo de eficiencia energética es una manera fácil de reducir sus costos de energía, y puede calificarlo para un reembolso considerable de OG&E.

Comenzar.

Encuentre un contratista participante que le ayude a elegir el sistema adecuado para su hogar. Para obtener más información y ver cómo calificar, visite **OGE.com/HEEP** o comuníquese con nosotros al **ogehvac@clearesult.com**.

OG&E®

We Energize Life

Ahorre hasta

$3,000*

en sistemas de calefacción y refrigeración.

* *Los fondos son limitados por año del programa. Límite de dos reembolsos por dirección de instalación, hasta $3,000 por sistema.*

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OKLAHOMA

OG&E GOVERNMENT EFFICIENCY PROGRAM

FACT SHEET

Overview

The OG&E Government Efficiency Program provides publicly funded organizations with support and incentives for a variety of energy efficiency upgrades. Over the long term, the program helps participants save money on utility bills, improve comfort, and protect the environment through increased efficiency and responsible energy consumption.

Lighting retrofits

Modern, efficient LED efficient fixtures use less energy while providing high-quality light that can greatly reduce electricity and maintenance costs.

- Interior and/or exterior bulb and fixture upgrades
- Exit sign replacements
- New construction & remodel lighting
- Full-building scheduling and automation

HVAC upgrades

Older HVAC systems can be a major cause of wasted energy. Upgrading, scheduling, or tuning up your existing units is one of the easiest ways to save.

- Unit replacement on burnout
- Early unit replacement to upgrade
- New construction HVAC
- A/C tune-ups
- Full-building scheduling and automation

Implementation

Program representatives will help determine what services and energy efficiency projects work best for your facility.

Eligibility

All publicly funded facilities (city, state, county, etc.) are eligible to participate if they're located within the OG&E service territory and have a qualifying account number and eligible rate.

Scan to learn more

CONTACT US FOR MORE INFORMATION:

844-882-5747

ceep@oge.com

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OKLAHOMA ACADEMIC STANDARDS*
GRADE 5

LANGUAGE ARTS	
1: LISTENING AND SPEAKING: Students will listen and speak effectively in a variety of situations.	
Listening: Students will develop and apply effective communication skills through speaking and active listening.	
5.1.L.1	Students will actively listen using agreed-upon discussion rules with awareness of verbal and nonverbal cues.
5.1.L.2	Students will actively listen and interpret a speaker's verbal messages and ask questions to clarify the speaker's purpose.
2: READING AND WRITING FOUNDATIONS: Students will develop foundational skills for reading and writing proficiency by working with sounds, letters, and text.	
Fluency: Students will read grade-level text smoothly and accurately, with appropriate expression.	
5.2.F.1	Students will expand their sight word vocabulary by reading regularly- and irregularly-spelled words in isolation and context with increasing automaticity.
5.2.F.2	Students will orally and accurately read grade-level text at a smooth rate with expression that connotes comprehension.
2: READING AND WRITING PROCESS: Students will use a variety of recursive reading and writing processes.	
Reading: Students will read and comprehend inclusive, diverse, and increasingly complex literary and informational texts.	
5.2.R.1	Students will explain how key supporting details support the main idea of a text.
5.2.R.2	Students will identify details in fiction, poetry, and nonfiction texts to distinguish various genres.
5.2.R.4	Students will summarize facts and details from an informational text.
3: CRITICAL READING AND WRITING: Students will apply critical thinking skills to reading and writing.	
Reading: Students will analyze, interpret, and evaluate increasingly complex literary and informational texts that include a wide range of historical, cultural, ethnic, and global perspectives from a variety of genres.	
5.3.R.1	Students will determine the author's purpose and draw conclusions to determine if the author's purpose was achieved.
5.3.R.6	Students will distinguish fact from opinion in an informational text and explain how reasons and facts support specific points.
5.3.R.7	Students will distinguish the structures of informational texts: compare/contrast, cause/effect, problem/solution, description, sequential.
Writing: Students will thoughtfully and intentionally write, addressing a range of modes, purposes, and audiences.	
5.3.W.3	Students will write opinion essays that: introduce a topic and state a clear opinion, and incorporate relevant, text-based evidence to support the opinion.

**State Academic Standards derived from multiple, independent sources exhibit the most current information available to date.*

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OKLAHOMA ACADEMIC STANDARDS*
GRADE 5

LANGUAGE ARTS	
4: VOCABULARY: Students will expand and apply their spoken and reading vocabularies to speak, read, and write effectively.	
Reading: Students will expand academic, grade-level vocabularies through reading, word study, and class discussion.	
5.4.R.2	Students will use context clues to clarify the meaning of words.
5.4.R.3	Students will use word parts (e.g., affixes, Latin roots, stems) to define and determine the meaning of new words.
5.4.R.4	Students will consult reference materials (e.g., dictionaries, glossaries, thesauruses) to comprehend the words in a text.
5.4.R.5	Students will acquire new grade-level vocabulary, relate new words to prior knowledge, and apply vocabulary in various contexts.
Writing: Students will apply knowledge of vocabulary to speak and write effectively.	
5.4.W.1	Students will use domain-appropriate vocabulary to communicate ideas in writing.
5.4.W.2	Students will use precise and vivid vocabulary in writing for the intended mode and effect on the audience.
6: RESEARCH: Students will engage in inquiry to acquire, refine, and communicate accurate information.	
Reading: Students will comprehend, evaluate, and synthesize resources to acquire and refine knowledge.	
5.6.R.1	Students will conduct research to answer questions, including self-generated questions, and to build knowledge, using multiple sources.
5.6.R.2	Students will identify and use text features to analyze the structure of informational texts.
5.6.R.3	Students will determine the relevance and reliability of the information gathered.
Writing: Students will synthesize information ethically through speaking and writing.	
5.6.W.3	Students will write informative texts independently for short timeframes that organize related information logically and convey key details, quotations, or other relevant information from multiple sources.

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OKLAHOMA ACADEMIC STANDARDS*
GRADE 5

MATHEMATICS	
NUMBERS & OPERATIONS (N)	
5.N.1	Read, write, represent, and compare fractions and decimals; recognize and write equivalent fractions; convert between fractions and decimals; use fractions and decimals in real-world and mathematical situations.
5.N.1.2	Read, write, and represent decimals using place value to describe decimal numbers including fractional numbers as small as thousandths and whole numbers up to seven digits.
5.N.1.4	Recognize and generate equivalent terminating decimals, fractions, mixed numbers, and fractions in various models.
5.N.2	Divide multi-digit numbers and solve real-world and mathematical problems using arithmetic.
5.N.2.1	Estimate solutions to division problems to assess the reasonableness of results.
5.N.2.2	Divide multi-digit numbers, by one- and two-digit divisors, based on knowledge of place value, including but not limited to standard algorithms.
5.N.2.3	Recognize that remainders can be represented in a variety of ways, including a whole number, fraction, or decimal. Determine the most meaningful form of a remainder based on the context of the problem.
ALGEBRAIC REASONING & ALGEBRA (A)	
5.A.1	Describe and graph patterns of change created through numerical patterns.
5.A.1.2	Use a rule or table to represent ordered pairs of whole numbers and graph these ordered pairs on a coordinate plane, identifying the origin and axes in relation to the coordinates.
GEOMETRY & MEASUREMENT (GM)	
5.GM.2	Determine volume using the object's dimensions. Compare and analyze rectangular prisms with equivalent volume to recognize their different dimensions.
5.GM.2.1	Determine the volume of rectangular prisms by the number of unit cubes *(n)* used to construct the shape and by the product of the dimensions of the prism $a \cdot b \cdot c = n$. Understand rectangular prisms of different dimensions *(p, q,* and *r)* can have the same volume if $a \cdot b \cdot c = p \cdot q \cdot r = n$.
DATA & PROBABILITY (D)	
5.D.1	Create and analyze data to find the range and measures of central tendency (mean, median, mode).
5.D.1.2	Create and analyze line and double-bar graphs with increments of whole numbers, fractions, and decimals.

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OKLAHOMA ACADEMIC STANDARDS*
GRADE 5

SCIENCE	
PHYSICAL SCIENCE	
Matter and Its Interactions	
5.PS1.1	Develop a model to describe that matter is made of particles too small to be seen.
5.PS1.2	Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.
5.PS1.4	Conduct an investigation to determine whether the mixing of two or more substances results in new substances.
Motion and Stability: Forces and Interactions	
5.PS2.1	Support an argument, with evidence, that Earth's gravitational force pulls objects downward toward the center of the earth.
LIFE SCIENCE	
From Molecules to Organisms: Structure and Processes	
5.LS1.1	Support an argument that plants get the materials they need for growth chiefly from air and water.
5.LS2.1	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
Ecosystems: Interactions, Energy, and Dynamics	
5-LS2-2	Use models to explain factors that upset the stability of local ecosystems.
EARTH AND SPACE SCIENCE	
Earth's Systems	
5.ESS2.1	Develop a model to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
5.ESS2.2	Describe and graph amounts of saltwater and freshwater in various reservoirs to provide evidence about the distribution of water on Earth.
Earth and Human Activity	
5.ESS3.1	Obtain and combine information about ways individual communities use science ideas to protect the earth's resources and environments.

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PARENTS

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We Energize Life

CONGRATULATIONS!

Your child's class has been selected to participate in the exciting LivingWise Program. The program is designed to teach your child the value of water and energy and help you save money on your utility bills. This program is being provided by **Oklahoma Gas & Electric** at NO COST to you, your child's school, or the school district.

The average U.S. household pays at least $2,000 per year in utility bills and can reduce these costs with just a few simple changes. Your child will be given a kit which includes FREE high quality energy-saving and water-saving products that utilize the latest efficiency technology. This kit is valued at over $60 and will provide you with the ability to make these changes.

To participate, please do the following:

- Explore the kit with your child and discuss how the products can conserve water and energy for your family.
- Install all of the kit items. You and your child can do most of the activities in less than 15 minutes. Visit www.getwise.org to view installation videos or call 1-888-GET-WISE.
- Work with your child to answer all of the survey questions in the Take-Home Workbook.

The LivingWise® Program will be an easy and fun experience for your entire family. Not only will it allow your child the chance to be a leader in your home and community, but also your family will immediately benefit from lower utility bills. Thank you for your participation.

LET'S GET STARTED!

QUESTIONS? • 1-888-GET-WISE • www.getwise.org

PADRES

OG/E®

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¡FELICITACIONES!

La clase de su hijo ha sido seleccionada para participar en el fascinante Programa LivingWise. El programa está diseñado para enseñarle a su hijo el valor del agua y de la energía y para ayudarle a usted a ahorrar dinero en sus facturas de servicios públicos. Este programa lo provee **Oklahoma Gas & Electric** SIN COSTO para usted, la escuela de su hijo ni el distrito escolar.

La vivienda promedio estadounidense paga por la mínima $2,000 por año en facturas de servicios públicos y puede reducir estos costos simplemente con algunos cambios sencillos. A su hijo se le dará un kit que incluye productos GRATUITOS de alta calidad para el ahorro de agua y energía que utilizan la tecnología de ahorro más moderna. Este kit tiene un valor de más de $60 y le dará a usted la habilidad de implementar estos cambios.

Para participar, por favor haga lo siguiente:

- Explore el kit con su hijo y discuta cómo los productos pueden conservar agua y energía para su familia.
- Instale todos los artículos del kit. Usted y su hijo pueden hacer la mayoría de las actividades en menos de 15 minutos. Visite www.getwise.org para ver videos de instalación o llame al 1-888-GET-WISE.
- Trabaje con su hijo para responder todas las preguntas de la encuesta en el Libro de Trabajo para llevar a casa.

El Programa LivingWise® será una experiencia sencilla y divertida para toda su familia. No sólo le permitirá a su hijo la posibilidad de ser un líder en su hogar y en su comunidad, sino que también su familia se beneficiará inmediatamente por las facturas más bajas de los servicios públicos. Gracias por su participación.

¡COMENCEMOS!

¿PREGUNTAS? • 1-888-GET-WISE • www.getwise.org

20018 3119

STUDENT SURVEY

Fill bubble completely with black pen or pencil. Please do not copy or fold forms.

FIRST NAME _____ TEACHER _____

SCHOOL _____ DATE _____

PRE-PROGRAM QUIZ

1. Which of the following is not a fossil fuel?
   - ○ Wind
   - ○ Oil
   - ○ Coal
   - ○ Natural Gas

2. Which of the following is a renewable resource?
   - ○ Oil
   - ○ Gold
   - ○ Water
   - ○ Natural Gas

3. Saving water saves energy.
   - ○ True
   - ○ False

4. What is the unit of measure for electricity consumption?
   - ○ Therm
   - ○ Kilowatt-Hour
   - ○ Kilowatt
   - ○ Pounds

5. Energy stored within any physical thing is called ...
   - ○ Nuclear Energy
   - ○ Mechanical Energy
   - ○ Kinetic Energy
   - ○ Potential Energy

6. Which are examples of distributed generation?
   - ○ Solar panels on your home
   - ○ A wind turbine at your home
   - ○ Using fuel cells at home
   - ○ All of the above

7. Which major appliance uses the most energy?
   - ○ Dishwasher
   - ○ Refrigerator
   - ○ Clothes Dryer

8. A high-efficiency showerhead can save...
   - ○ Water
   - ○ Energy
   - ○ Both

9. An item that continues to use electricity even though its switch may be in the "off" position is called...
   - ○ Transformer
   - ○ Peak Load
   - ○ Phantom Load
   - ○ High Efficiency

10. LED Light Bulbs can reduce lighting energy use in your home by 75%.
    - ○ True
    - ○ False

HOME CHECKUP

1. How many people live in your home (including you)?
   - ○ 1
   - ○ 2
   - ○ 3
   - ○ 4
   - ○ 5
   - ○ 6
   - ○ 7+

2. How is your water heated?
   (Hint: A natural gas water heater will have a gas line connected to the bottom of it where there is an "on/off" dial, and it will always have a flue, or a circular tube connected to the top of it and extending up to the roof. An electric water heater will not have a gas line attached, only a heavy duty electric cord plugged into the wall, and will not have a flue.)
   - ○ Natural Gas
   - ○ Propane
   - ○ Electricity

3. Does your home have a dishwasher?
   - ○ Yes
   - ○ No

4. How many half-bathrooms are in your home?
   (Hint: Half bathrooms are bathrooms that do not have a shower or a bathtub.)
   - ○ 0
   - ○ 1
   - ○ 2
   - ○ 3
   - ○ 4+

5. How many full bathrooms are in your home?
   - ○ 1
   - ○ 2
   - ○ 3
   - ○ 4
   - ○ 5+

6. Which fuel is used as the main source of energy to heat your home?
   (Your parent/guardian should know.)
   - ○ Natural Gas
   - ○ Electricity
   - ○ Heating Oil
   - ○ Wood
   - ○ Propane
   - ○ Other

7. What type of air conditioning unit do you have?
   - ○ Central Air Conditioner
   - ○ Evaporative Cooler
   - ○ Room Unit
   - ○ Don't Have One

8. What type of home do you live in?
   - ○ Single Family Home
   - ○ Multi-Family Home/Apartment Building

9. Was your home built before 1992?
   - ○ Yes
   - ○ No

10. Is your home owned or rented?
    - ○ Owned
    - ○ Rented

20018 3119 **FILL IN EACH BUBBLE COMPLETELY**
Using a black pen or pencil, fill in the bubble completely next to the correct answer. Please do not copy or fold forms.

POST-PROGRAM QUIZ

1. Which of the following is not a fossil fuel?
   - ○ Wind
   - ○ Oil
   - ○ Coal
   - ○ Natural Gas

2. Which of the following is a renewable resource?
   - ○ Oil
   - ○ Gold
   - ○ Water
   - ○ Natural Gas

3. Saving water saves energy.
   - ○ True
   - ○ False

4. What is the unit of measure for electricity consumption?
   - ○ Therm
   - ○ Kilowatt-Hour
   - ○ Kilowatt
   - ○ Pounds

5. Energy stored within any physical thing is called ...
   - ○ Nuclear Energy
   - ○ Mechanical Energy
   - ○ Kinetic Energy
   - ○ Potential Energy

6. Which are examples of distributed generation?
   - ○ Solar panels on your home
   - ○ A wind turbine at your home
   - ○ Using fuel cells at home
   - ○ All of the above

7. Which major appliance uses the most energy?
   - ○ Dishwasher
   - ○ Refrigerator
   - ○ Clothes Dryer

8. A high-efficiency showerhead can save...
   - ○ Water
   - ○ Energy
   - ○ Both

9. An item that continues to use electricity even though its switch may be in the "off" position is called...
   - ○ Transformer
   - ○ Peak Load
   - ○ Phantom Load
   - ○ High Efficiency

10. LED Light Bulbs can reduce lighting energy use in your home by 75%.
    - ○ True
    - ○ False

HOME ACTIVITIES

1. Did your family install the new High-Efficiency Showerhead?
   - ○ Yes
   - ○ No

2. Did your family install the new Bathroom Faucet Aerator?
   - ○ Yes
   - ○ No

3. Did your family install the new Kitchen Faucet Aerator?
   - ○ Yes
   - ○ No

4. Did your family install the first 9-watt LED Light Bulb?
   - ○ Yes
   - ○ No

5. Did your family install the second 9-watt LED Light Bulb?
   - ○ Yes
   - ○ No

6. Did your family install the Advanced Power Strip in your home?
   - ○ Yes
   - ○ No

7. If you answered "yes" to question 6, where did you install your Advanced Power Strip?
   - ○ TV System
   - ○ Computer System
   - ○ Other

8. If you answered "yes" to question 6, did you receive help from your parents to install the Advanced Power Strip?
   - ○ Yes
   - ○ No

9. Did your family raise the temperature on your refrigerator?
   - ○ Yes
   - ○ No

10. How much did your family turn down the thermostat in winter for heating?
    - ○ 1 - 2 Degrees
    - ○ 3 - 4 Degrees
    - ○ 5+ Degrees
    - ○ Didn't Adjust Thermostat

11. How much did your family turn up the thermostat in summer for cooling?
    - ○ 1 - 2 Degrees
    - ○ 3 - 4 Degrees
    - ○ 5+ Degrees
    - ○ Didn't Adjust Thermostat

12. Did your family lower your water heater settings?
    - ○ Yes
    - ○ No

13. Did you work with your family on this program?
    - ○ Yes
    - ○ No

14. Did your family change the way they use energy?
    - ○ Yes
    - ○ No

15. How would you rate the LivingWise Program?
    - ○ Great
    - ○ Okay
    - ○ Pretty Good
    - ○ Not So Good

OG&E®

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CERTIFICATE OF ACHIEVEMENT

Awarded to

_____

for making a difference in your community by successfully completing the LivingWise® Program.

Sandra Cipriani

Manager of Curriculum Development

LIVINGWISE®
PROGRAM

3119

DON'T LET TIME RUN OUT

Simply return 80% of your completed surveys by **February 3, 2025**, and you'll receive a **$50.00** Mini Grant for your classroom!

And don't forget to give a wristband reward to your students when they return their completed surveys to you!

Offer open only to teachers participating in the program. Certain restrictions may apply. Good while supplies last. Offer ends February 3, 2025. 80% return rate of completed participant survey forms required for eligibility. For more information call 1-888-GET-WISE or contact us online at www.getwise.org.

LivingWise® Program Contents

Each program includes the following materials:

Student Materials

- *Student Guide*
- *Take-Home Workbook*
- *LivingWise Kit (shown below)*
- *Parent Letter/Pledge Form*
- *Student Survey Form*
- *Certificate of Achievement*
- *Unlimited Website Access*
- *Toll-Free HELP Line*
- *“OG&E” Wristband*

Teacher Materials

- *Teacher Book*
- *Step-by-Step Program Checklist*
- *Program At A Glance*
- *State Academic Standards Sheets*
- *Electricity, Water, and Natural Gas Posters*
- *Teacher Survey Form*
- *Unlimited Website Access*
- *Toll-Free HELP line*
- *Self-Addressed Postage-Paid Envelope*

LivingWise Kit*

- *High-Efficiency Showerhead*
- *Two LED Light Bulbs*
- *Kitchen Faucet Aerator*
- *Bathroom Faucet Aerator*
- *Digital Thermometer*
- *LED Night Light*
- *Advanced Power Strip*
- *Flow Rate Test Bag*
- *Parent/Guardian Program Evaluation*
- *Quick Start Guide*
- *Installation Instruction Booklet*
- *Spanish-Translated Materials*

*Actual kit items may vary.

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WELCOME

Thank you for choosing to participate! The LivingWise® Program will help your students and their families learn the importance of natural resources and immediately lower their utility bills. **Oklahoma Gas & Electric** has fully paid for and provided this program for your class.

Verify the receipt of the following Program Materials:

- Student Guides (one for each student and teacher)
- Take-Home Workbooks (one for each student and teacher)
- Teacher Book
- Student Wristbands
- Energy Saving Take Home Kits (one for each student and teacher)

Verify the receipt of the following Teacher Folder Contents:

- Introduction Letter to Parents/Guardians (yellow paper)
- Teacher Survey form (also available online)
- Student Survey forms (also available online)
- Certificate of Achievement awards
- Postage-Paid Return Envelope for Student Surveys and Teacher Survey form
- Classroom Poster(s)
- ELA, Math, and Science State Academic Standards sheets

To ensure program success and your eligibility for an eGift Card, please do the following:

- **IMPLEMENT THE PROGRAM.** The program provides flexible lessons that can be included in your current curriculum or presented independently. The materials are aligned to state academic standards to reinforce grade level topics.
- **HAVE YOUR STUDENTS INSTALL ALL OF THE PRODUCTS IN THE KIT.** Installation of the products is essential for learning how to conserve at home. The more products that are installed, the higher probability that the program will be available in future years.
- **RETURN PROGRAM RESULTS.** The responses on the Student Survey form and the Teacher Survey are used for program effectiveness and to help to determine program availability for the following year. Students also have the option to write thank-you notes to the utility provider. Return the Student Survey forms, the Teacher Survey form, and any thank-you notes in the provided postage-paid envelope.

Questions? Call 1-888-GET-WISE or visit www.getwise.org.

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LET'S BEGIN!

1. Display **Posters** in your classroom. Then, go to getwise.org, log in using your teacher code, and print the **Word Wall Vocabulary List** and display in your classroom. Teacher code login link is listed below.
2. In the *Teacher Book*, review the *Program At A Glance*. Then, view the suggested **Program Pacing Guide** located at getwise.org. Finally, determine a pace that best aligns with your class schedule and curriculum.
3. Explore getwise.org to view teacher presentations, lesson plan ideas, student activities, and other supplemental materials to guide your planning.
4. Make copies of the **Parent/Guardian Letter** to send home with the students. The letter will accompany the *Take-Home Workbook* and the **Energy Saver Kit**.
5. Administer the **Pre-Program Quiz** section of the **Student Survey** form. *The Home Checkup and Home Activities sections of this form are also in the Take-Home Workbook and will first be completed at home. Students will transfer their answers to the Student Survey form at the end of the program*. Keep the Student Survey forms until program completion.
6. Distribute the *Student Guides* and begin! Complete as much of the program that is applicable to your curriculum.
7. Distribute the Parent Letters, the *Take-Home Workbooks*, and the Kits for students to take home. Students will install the kit products, complete optional workbook activities, and complete the **Home Checkup** and **Home Activities** pages with their parent/guardian.
8. Students return *Take-Home Workbooks* to school and transfer answers from the Home Checkup and Home Activities pages to their Student Survey form. *Encourage students to answer as many questions as possible on the form, regardless of the completion of the workbook activities and/or the installation of all the products. Partial responses to these sections are acceptable!*
9. Administer the **Post-Program Quiz**. Collect the Student Survey forms, including partially completed surveys. Complete the **Teacher Survey** form included in your folder or use the QR Code listed below. Place all survey forms and any thank-you notes into the postage-paid envelope and kindly return to the provided address.
10. **Distribute Certificate of Achievement awards and Student Wristbands.**

Congratulations on the completion of the program!

Teacher Code Login:
https://enrollment.getwise.org/TeacherMaterials

Teacher Survey:
https://tinyurl.com/37d9tu2p

MORE COMFORT **FOR UP TO $3,000 LESS**

Save up to $3,000 on a qualifying heating and cooling system with an OG&E instant rebate.

If your HVAC system is over 10 years old, runs constantly and still can't keep you comfortable, it may be time for an upgrade. Luckily, working with a participating OG&E contractor makes it easy. From decoding efficiency ratings to paperwork, they'll handle it all—and save you up to $3,000 while they're at it.

Here's how it works:

1. Reach out to a participating contractor from the attached list.
2. Your contractor will help determine the best system for your home and budget, calculate your rebate amount and provide an estimate for the installation.
3. The OG&E rebate will be included on your invoice as an instant discount—no paperwork required.

Eligibility

- Rebate amount may not exceed $3,000 per system. Limit two Replace on Burnout rebates per installation address per year.
- Eligible HVAC systems include central A/C units, central heat pumps, mini-split A/Cs, mini-split heat pumps and geothermal heat pumps. Efficiency qualifications vary.
- Rebates are available to Oklahoma OG&E residential customers who own or rent a single-family, permanent-foundation home.
- The qualifying system must be installed by a participating contractor.
- Rebates are issued as an instant discount off the customer's invoice.
- Funds are limited and available on a first-come, first-served basis.
- The participating contractor must reserve funds with the program on behalf of the customer prior to installation of the qualifying system.

Heat. Cool. Save up to $3,000.

Contact a participating contractor today to get started. For more information, reach out to us at **ogehvac@clearesult.com** or call **844-882-5746**.

OG&E® *We Energize Life* OKLAHOMA

HVAC REPLACEMENT CONTRACTORS
CENTRAL A/C SYSTEMS

A&T MECHANICAL HEAT & AIR SERVICES, INC.
405-810-8891
Edmond, OK

ABOVE AND BEYOND HEATING AND COOLING, LLC
405-657-2484
Edmond, OK

AIRCO SERVICE, INC.
918-252-5667
Oklahoma City, OK
Tulsa, OK

AKT MECHANICAL LLC
405-549-7939
Oklahoma City, OK

ALL ABOUT COMFORT LLC
405-436-0047
Oklahoma City, OK

AIRE SERV OF GREATER OKC
405-721-6300
Edmond, OK

COMFORT CONCEPTS HEAT & AIR
405-494-7444
Yukon, OK

HOLLIFIELD SERVICE COMPANY, LLC
918-781-3993
Muskogee, OK

HVAC PROS
405-618-3438
Moore, OK

HVAC SERVICES BY VU LLC
405-708-8944
Oklahoma City, OK

INTEGRITY HOME COMFORT SOLUTIONS
580-319-5483
Ardmore, OK

JA-CO HEATING AND AIR LLC
580-279-6231
Ada, OK

LIEBER MECHANICAL
405-265-4695
Yukon, OK

OKLAHOMA CLIMATE SOLUTIONS, LLC
405-503-9833
Moore, OK

PRONTO HEATING AND AIR LLC
405-237-3809
Oklahoma City, OK

SUNTECH HEAT & AIR
405-348-9743
Edmond, OK

TEMPERATUREPRO OKC
405-256-4432
Norman, OK

WISDOM REFRIGERATION, LLC
580-323-2003
Oklahoma City, OK
Weatherford, OK

YARBROUGH & SONS, LLC
405-485-3470
Blanchard, OK

INTERESTED IN JOINING THIS LIST?
To become a participating trade ally, please email **ogehvac@clearesult.com** to learn more.

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OKLAHOMA

HVAC REPLACEMENT CONTRACTORS
HEAT PUMP SYSTEMS

A&T MECHANICAL HEAT & AIR SERVICES, INC.
405-810-8891
Edmond, OK

ABOVE AND BEYOND HEATING AND COOLING, LLC
405-657-2484
Edmond, OK

AIRCO SERVICE, INC.
918-252-5667
Oklahoma City, OK
Tulsa, OK

AIRE SERV OF GREATER OKC
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Edmond, OK

COMFORT CONCEPTS HEAT & AIR
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Yukon, OK

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Oklahoma City, OK

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TEMPERATUREPRO OKC
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HVAC REPLACEMENT CONTRACTORS
MINI-SPLIT SYSTEMS

A&T MECHANICAL HEAT & AIR SERVICES, INC.
405-810-8891
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ABOVE AND BEYOND HEATING AND COOLING, LLC
405-657-2484
Edmond, OK

AIRCO SERVICE, INC.
918-252-5667
Oklahoma City, OK
Tulsa, OK

ALL ABOUT COMFORT LLC
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Oklahoma City, OK

AIRE SERV OF GREATER OKC
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Edmond, OK

COMFORT CONCEPTS HEAT & AIR
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HVAC SERVICES BY VU LLC
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JA-CO HEATING AND AIR LLC
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Ada, OK

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Moore, OK

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Weatherford, OK

YARBROUGH & SONS, LLC
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HVAC REPLACEMENT CONTRACTORS
GEOTHERMAL SYSTEMS

COMFORT CONCEPTS HEAT & AIR
405-494-7444
Yukon, OK

COMFORTWORKS, INC.
405-364-9007
Oklahoma City, OK

HOLLIFIELD SERVICE COMPANY, LLC
918-781-3993
Muskogee, OK

INTEGRITY HOME COMFORT SOLUTIONS
580-319-5483
Ardmore, OK

LIEBER MECHANICAL
405-265-4695
Yukon, OK

SUNTECH HEAT & AIR
405-348-9743
Edmond, OK

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Weatherford, OK

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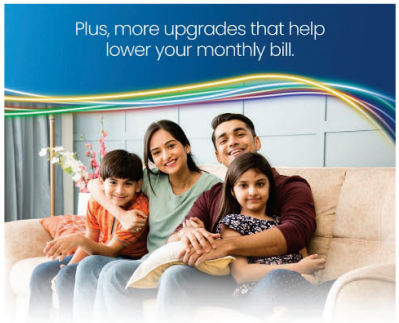

Check your eligibility for up to $3,000 in money-saving upgrades.

We're offering attic insulation and more upgrades that can make your heating and air units 30% more efficient and save you money, all at no added cost. Those who qualify can receive **up to $3,000** in upgrades that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

This program is offered to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year.

Visit OGE.com/weatherization to learn more and reserve your spot.

Check your eligibility in just minutes.

See if I Qualify

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Download the OG&E App

Pay your bill, report outages, track your energy usage, and more.

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Increase efficiency with up to $3,000 in home energy upgrades.

See if you qualify for home energy improvements that can make your heating and air units 30% more efficient and save you money. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

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See if I Qualify

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WAYS TO SAVE AT WORK

Large Commercial & Industrial
Save on high-efficiency upgrades like LED and HVAC equipment, lighting controls, building automation and more.

Continuous Energy Improvement
Receive expert guidance and incentives for making low-cost and no-cost improvements to your business.

Midstream
Receive instant rebates on select ENERGY STAR® certified lighting and kitchen equipment at participating distributors.

Small Business Direct Install
Save up to 90 percent on qualifying energy-efficient upgrades for your small business.

Schools and Government
Improve your school or government facility with incentives on energy-saving lighting, HVAC equipment and more.

Commercial A/C Tune-ups
Tune up your comfort and bottom line with an Advanced A/C Tune-up from a participating trade ally.

Ready to get started?
Say hello at **ceep@oge.com** or explore more ways to save at **OGE.com/CEEP**.

OG&E® *We Energize Life*

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SMALL BUSINESS SAVINGS **ARE ON THE WAY.**

We're hitting the road this summer to help small businesses like yours stay cool and save with an Advanced A/C Tune-up.

A technician will be in your neighborhood **[fillable date range]** to provide this state-of-the-art service at **no cost to you.** Sign up today to secure your appointment.

Benefits of an Advanced A/C Tune-up:

- Improve your A/C unit's efficiency by up to 30 percent
- Reduce maintenance and cooling costs
- Enhance comfort and humidity control
- Help your A/C last longer and work better

Scan to sign up.

Questions?

Contact our energy-saving experts at **ceep@oge.com.**

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OGE.com

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Commercial offerings (continued)

Commercial Midstream Instant Incentive

OG&E provides commercial customers with instant rebates on select LED lighting and ENERGY STAR certified kitchen equipment at participating lighting and kitchen distributors.

Schools and Government Efficiency Program

We provide educational, government, public and nonprofit facilities with multiple opportunities for incentives and consultation for various energy-efficient projects, including new construction, retrofits and other upgrades.

Continuous Energy Improvement (CEI) Program

Under the CEI Program, OG&E offers incentives for qualified commercial, industrial and school customers that partner with OG&E's consultants to help them identify and implement low-cost or no-out-of-pocket-cost energy-saving changes.

The energy-saving possibilities are endless.

With rates among the lowest in the country, OG&E will never stop finding ways to help Oklahoma save energy and money.

Get started.

To learn more about all the ways OG&E can help you save energy, visit **OGE.com** or call **844-882-5746** today.

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We Energize Life

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OKLAHOMA

ENERGY EFFICIENCY PROGRAMS

With a wide variety of programs, services and incentives designed to help you save energy, OG&E is your go-to source for all things efficiency.

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Residential offerings

Residential Solutions Program

Schedule an In-Home Energy Assessment to get $750 worth of energy-saving products and expertise for no out-of-pocket costs. This program identifies energy-saving improvements in your home by providing a free online Home Energy Profile and walk-through In-Home Energy Assessment at no out-of-pocket cost to you.

With no out-of-pocket fees associated, signing up has never been smarter.

- Create an online energy profile.
- Schedule an In-Home Energy Assessment.
- A certified energy advisor will perform a complete walkthrough of your home.
- Qualify for comfort-enhancing, energy-saving improvements like attic insulation, air and duct sealing, LEDs, advanced power strips and more—at no out-of-pocket cost .

Visit **OGE.com/HEEP** to learn more and schedule your Energy Assessment today.

Rebates

To offset the costs of energy efficiency improvements, OG&E offers rebates toward a number of energy efficiency improvements, including duct and air sealing, attic and wall insulation, ENERGY STAR® certified windows and pool pumps.

Multi-Family Efficiency Program

Own or live in a residential apartment or multi-family unit? OG&E offers many of the same rebates for multi-family customers, such as property assessments, air sealing, duct sealing, A/C tune-ups and more.

Consumer Products

This program offers instant in-store discounts at select retailers on ENERGY STAR certified LED lighting, advanced power strips, room A/C window units, room air purifiers, water dispensers and bathroom vent fans.

HVAC Replacement and Tune-Up

OG&E offers incentives and rebates toward qualified HVAC replacements to offset project costs and lower your energy bill, as well as A/C tune-ups for no out-of-pocket cost for qualifying units.

Weatherization

This program provides energy efficiency upgrades at no additional cost to customers who own or rent a single-family home or duplex. These upgrades will help lower energy costs and increase comfort and safety in your home.

Student Energy Education LivingWise

Got a sixth grader at home? OG&E teams up with local schools to provide them with educational kits, at no additional cost, that can teach students how to save energy at home and in the classroom.

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Commercial offerings

Large Commercial & Industrial Solutions

When completed on a large scale, a few energy-saving upgrades can have an enormous impact on a business's bottom line. This program helps business owners identify the most cost-effective energy efficiency opportunities and provides incentives based on how much is saved.

Small Business Solutions

For smaller commercial facilities, qualifying energy-efficient project costs could be covered up to 90 percent through the program when doing lighting or refrigeration upgrades. It all starts with a walk-through evaluation with no out-of-pocket cost.

Upgrades that increase energy efficiency and save you money.

Get money-saving upgrades at no added cost for eligible customers.

This program is offered at no additional cost to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

At OG&E, we offer upgrades that can make your heating and air units **30% more efficient** and save you money.

Visit OGE.com/weatherization to learn more and reserve your spot.

Check your eligibility in just minutes.

See if I Qualify

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Up to $3,000 in money-saving upgrades at no added cost

This program is offered to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

At OG&E, we can increase your home's energy efficiency with upgrades that can **save you up to 30% on heating and air**. You may qualify for up to $3,000 in home energy improvements, all at no additional cost.

Visit OGE.com/weatherization to see if you qualify.

Check your eligibility in just minutes.

See if You Qualify

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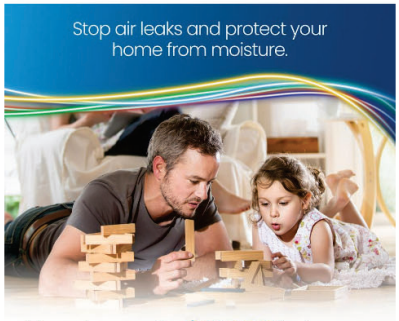

Receive up to $3,000 in home energy efficiency upgrades.

You may qualify for home energy improvements, including new caulking, all at no additional cost. These upgrades can make your heating and air units 30% more efficient and save you money. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

This program is offered to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year.

Visit OGE.com/Weatherization to learn more and reserve your spot.

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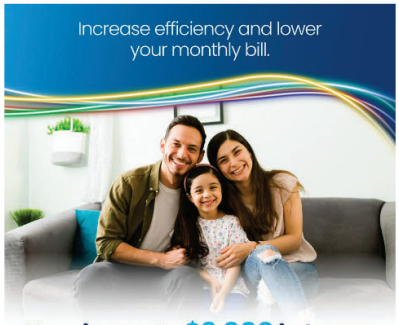

Receive up to $3,000 in home energy efficiency upgrades.

This program is offered to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

These upgrades can make your heating and air units **30% more efficient** and save you money.

Visit OGE.com/weatherization to learn more and reserve your spot.

Check your eligibility in just minutes.

See if I Qualify

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See if you qualify for up to $3,000 in money-saving upgrades.

We're offering this program to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year. Those who qualify can receive **up to $3,000** in services that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

We offer upgrades that can make your heating and air units **30% more efficient** and save you money.

Visit OGE.com/weatherization to learn more and reserve your spot.

Check your eligibility in just minutes.

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Plus, more money-saving upgrades that can lower your bill.

Get A/C tune-ups and up to $3,000 in money-saving upgrades.

We offer upgrades that can make your heating and air units 30% more efficient and save you money, all at no added cost. Those who qualify can receive **up to $3,000** in upgrades that include:

- CAULKING
- WEATHER STRIPPING
- INSULATION
- LED LIGHTING
- HVAC TUNE-UP

– AND MORE –

This program is offered to all residential customers who own or lease a single-family home, duplex or mobile home and have a household income of less than $60,000 per year.

Visit OGE.com/weatherization to learn more and reserve your spot.

Check your eligibility in just minutes.

See if I Qualify

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MIDSTREAM INSTANT INCENTIVE
PARTICIPATING DISTRIBUTOR LOCATIONS

ADA
- Broken Arrow Electric
- Locke Supply

ARDMORE
- Ardmore Electric
- CED
- Hunzicker Bros
- Locke Supply

BETHANY
- Locke Supply

BROKEN ARROW
- Lighting Inc.
- Rexel USA

CUSHING
- Broken Arrow Electric

DURANT
- Broken Arrow Electric
- Locke Supply

EDMOND
- Batteries Plus
- City Electric Supply
- Elliott Electric
- Locke Supply

ENID
- CED
- Crawford Electric Supply
- Elliott Electric
- Locke Supply

LAWTON
- Hunzicker Bros

MCALESTER
- Broken Arrow Electric

MIDWEST CITY
- Batteries Plus
- City Electric Supply
- Locke Supply

MOORE
- City Electric Supply
- Elliott Electric
- Locke Supply

MUSKOGEE
- Broken Arrow Electric
- Crawford Electric Supply
- Locke Supply

MUSTANG
- Locke Supply

NORMAN
- Batteries Plus
- City Electric Supply
- Locke Supply

OKLAHOMA CITY
- Batteries Plus
- Bright Lights
- Broken Arrow Electric
- CED
- City Electric Supply
- Crawford Electric Supply
- Elliott Electric
- EMSCO
- Hunzicker Bros
- Locke Supply
- Luminous of Oklahoma
- Rexel USA
- Star Lighting
- Voss Lighting

POTEAU
- Rexel USA
- Wholesale Electric Supply

SHAWNEE
- Hunzicker Bros
- Locke Supply

STILLWATER
- Hunzicker Bros
- Locke Supply

TULSA
- Crawford Electric Supply

WOODWARD
- Hunzicker Bros
- Locke Supply

YUKON
- Locke Supply

Funds are available on a first-come, first-served basis and limited to $2,500/month/customer/location.

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See if you qualify for energy efficiency upgrades

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Vea si califica para mejoras de eficiencia energética

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Vea si califica para mejoras de eficiencia energética

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Vea si califica para mejoras de eficiencia energética

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See if you qualify for energy efficiency upgrades

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See if you qualify for
energy efficiency upgrades
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Reducción de costos, mayor comodidad

OG&E®

Reducción de costos, mayor comodidad

OG&E®

Reducción de costos, mayor comodidad

OG&E®

Ajustaremos su HVAC sin costo adicional

Vea si califica

OG&E®

Ajustaremos su HVAC sin costo adicional

Vea si califica

OG&E®

Ajustaremos su HVAC sin costo adicional

» Vea si califica

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OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

FACT SHEET

Design

OG&E provides incentive funding for energy-efficient upgrades and retrofits to all educational and publicly funded facilities within our service territory. Based on the energy-efficient measures you choose, we'll help you secure the largest incentives available. Educational activities are also available at no upfront cost. They are designed to help administrative personnel at facilities to identify and quantify energy efficiency opportunities.

Goals

The program aims to help cover a portion of the total cost of each project. Over the long term, we're here to help participants save money on utility bills, improve comfort and protect the environment through education, increased efficiency and responsible energy consumption.

Implementation

Program representatives will help facilities with participation in all our available services, and help determine what energy efficiency measures will work best for them.

Eligibility

All educational and publicly funded facilities are eligible to participate if they're located within the OG&E service territory.

Timeframe

Participation is based on a first-come, first-served basis throughout the program year, or while funds last.

Scan to learn more

CONTACT US FOR MORE INFORMATION:

844-882-5747

ceep@oge.com

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ENERGY SAVINGS FOR NONPROFITS

WHERE THERE'S A GOODWILL, THERE'S A WAY

After completing a full lighting retrofit of their corporate office with financial and technical assistance from OG&E, Goodwill Industries of Central Oklahoma is **saving over $19,000 a year** in energy costs.

Savings start with a bright idea

OG&E's Schools and Government Efficiency Program provides nonprofit organizations with recommendations, guidance and incentives for energy-saving upgrades. Goodwill Industries of Central Oklahoma recently turned to us for help with a full lighting overhaul at their corporate office in Oklahoma City.

After assessing the building's lighting needs, OG&E participating contractors replaced 361 fluorescent, halogen and metal halide bulbs with energy-efficient LED bulbs. The new bulbs use only a fraction of the energy, are safer and more durable, and can last years longer.

Shining a light on Goodwill's good deeds

OG&E provided Goodwill with over $29,000 in incentives, enough to cover 50 percent of the total project costs. The new lighting has also reduced their annual energy costs by an estimated $19,518. All told, the project is expected to pay for itself in just two years.

"We really appreciate OG&E helping Goodwill convert all its retail stores," said Brian Alton, Director of Property Management at Goodwill Industries of Central Oklahoma. *"This helps keep Goodwill moving forward in upgrading its stores to LEDs."*

With more lighting projects on the horizon, Goodwill continues to light the way for nonprofit energy savings.

SAVINGS AT A GLANCE

207,641 kWh
SAVED

$19,518
ESTIMATED ANNUAL SAVINGS

$29,069
INCENTIVES PROVIDED BY OG&E

2 years
ESTIMATED PAYBACK PERIOD

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OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

MEASURES SHEET

OG&E Schools and Government Efficiency Program provides a variety of energy efficiency measures for educational and publicly funded facilities. We'll provide an energy assessment at **no out-of-pocket cost** to you to help identify and install the measures that could bring you the biggest savings.

Lighting retrofits
Modern, efficient fixtures use less energy while providing high-quality light that is designed to improve the learning environment.

Exit light replacements
Replace aging and inefficient incandescent exit lights with energy-saving LED units.

Gym and multipurpose room lighting replacements
Older gym and multipurpose room lighting can be inefficient as well as unappealing. This retrofit will solve both issues.

Sports lighting
Retrofitting existing sports lighting with efficient LEDs can greatly reduce energy and maintenance costs.

HVAC replacement
Older HVAC systems can be a major cause of wasted energy. Upgrading is one of the easiest ways to save.

Scan to learn more

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OG&E **SCHOOLS & GOVERNMENT EFFICIENCY PROGRAM**

FORT GIBSON SCHOOLS SWITCH ON THE SAVINGS.

With help from OG&E's Schools and Government Efficiency Program, a district-wide lighting upgrade is saving Fort Gibson Public Schools thousands each year.

Getting schooled in efficiency

The Fort Gibson Public School District reached out to OG&E with concerns about its outdated lighting system and rising energy costs. Through the School and Government Efficiency Program, OG&E provides publicly funded facilities like Fort Gibson schools with guidance and incentives for energy efficiency projects.

OG&E's participating contractors performed a full lighting retrofit of the school district's kindergarten, middle school, high school, administrative offices and gymnasiums. That meant replacing each of the district's 1,621 T8 and T12 bulbs with longer-lasting, energy-saving LED bulbs. To offset the costs of the upgrades, OG&E provided the district with more than $50,000 worth of incentives.

Thanks to these incentives and energy cost savings of more than $27,000, the district is expected to recoup its investment within five years.

Lighting the way to savings

The success of the lighting retrofit inspired the district to also participate in OG&E's benchmarking services. By comparing Fort Gibson schools' energy performance metrics to similar buildings, OG&E's energy experts will be able to calculate the most cost-effective, energy-saving opportunities for the school district.

SAVINGS AT A GLANCE

364,029 kWh
SAVED

$27,666
ESTIMATED ANNUAL SAVINGS

$54,604
INCENTIVES PROVIDED BY OG&E

4.8 years
ESTIMATED PAYBACK PERIOD

Scan to learn more

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AVAILABLE **INCENTIVES**

Planning an energy efficiency project? Get with the program. Our Small Business Efficiency Program offers incentives and rebates that can cover up to 90 percent of the cost of a project or qualified purchase.

Incentive rates:

- $0.20/kWh reduced for eligible LED lighting and refrigeration measures
- Variable rebates for qualified lighting and kitchen equipment purchases

ELIGIBLE **PROJECTS**

Incentives are available for a wide variety of energy efficiency projects, including:

- LED lighting upgrades* (including occupancy sensors and exit signs)
- Refrigeration door gaskets and strip curtains.
- Qualified ENERGY STAR® kitchen equipment
- LED bulb purchases from approved distributors

*LED retrofits must be either DesignLights Consortium® approved or ENERGY STAR certified to receive incentives.

Take control of your energy use—and your bottom line.

To get started, please have your OG&E account number and site address handy and contact us today.

ceep@oge.com
844-882-5747

Products and services are provided solely by approved participating Service Providers. OG&E does not sell goods or services in its energy efficiency programs.

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BIG SAVINGS FOR YOUR **SMALL BUSINESS**

SMALL **BUSINESS EFFICIENCY PROGRAM**

OG&E offers energy-efficient solutions for small business customers.

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PROGRAM **BENEFITS**

We'll provide everything you need to help your business achieve long-term energy savings, including:

- A no-out-of-pocket-cost, no-obligation lighting assessment to identify energy-saving opportunities
- Recommendations and estimates for energy savings, project costs and payback periods
- Installation of approved energy-saving equipment by a local, pre-qualified contractor
- Incentives paid directly to the contractor by the program to reduce your upfront cost
- Instant discounts from partnered distributors for lighting and kitchen equipment purchases

It's with programs like this one that OG&E is able to keep rates among the lowest in the country.

ELIGIBILITY

The program is open to any small commercial customers with a valid OG&E account meter and no more than 200 kW peak demand at any one facility.

Get started **today**

1. Visit **OGE.com/CEEP** to view participating contractors and distributors.
2. Contact the program partner you selected and provide your customer account number to verify your eligibility.

TYPICAL **PROJECT SCENARIO**

To give you an idea of the potential savings available through the program, below is an example of some commonly proposed retrofits. The projected savings and costs for these retrofits are on the right.

Existing interior lighting:

32 4 ft. 4-lamp fluorescent fixtures
16 60W incandescent bulbs
2 exit signs

Interior lighting retrofit:

32 4 ft. 36W LED fixtures
16 10W LEDs
2 LED exit signs

Incentives, actual savings and payback periods vary depending on the equipment installed, building characteristics, energy use patterns, age of existing equipment, location and other parameters specific to the project.

EXAMPLE PROJECT BY THE NUMBERS

20,671 kWh
total energy savings

2.96 kW
total peak demand savings

$4,134
estimated incentives

$578
net cost to customer

$4,712
estimated project cost

3.36 years
project payback

$2,067
estimated annual savings

SMALL BUSINESS **SOLUTIONS**

Trying to lower your operating costs?

Let us give you a hand. We offer a variety of solutions to help small businesses save energy and money—including incentives that can cover up to 90 percent of qualifying energy-efficient upgrades.

Eligible projects include:

- Facility assessments
- Indoor and outdoor LED conversions
- Refrigeration door gaskets
- Refrigeration strip curtains
- A/C tune-ups

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LET'S DO **LUNCH.**

You're cordially invited to our Small Business Summit.

RSVP today to see what we can do for your business during this informal, complimentary lunch.

When:

Where:

OG&E We Energize Life

OG&E SMALL BUSINESS **SUMMIT LUNCH**

Topics may include:

- **Incentives** that can cover up to 90 percent of your project costs
- **A/C Tune-ups** to improve your A/C unit's efficiency by up to 30 percent
- **Instant rebates** on new lighting and kitchen equipment
- **Ways to save** energy and boost your bottom line

We look forward to hearing from you!

SCAN HERE TO RSVP

OR VISIT

https://forms.office.com/r/PkVa84297W

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7.3 AM Conservation™ LivingWise™ Report

OG&E Oklahoma LivingWise®

PROGRAM SUMMARY REPORT

2024 Calendar Year

SUBMITTED BY:

AM CONSERVATION™

OG&E Oklahoma LivingWise®

PROGRAM SUMMARY REPORT

2024 Calendar Year

MADE POSSIBLE BY:

OG&E®

We Energize Life

SUBMITTED BY:

FRANKLIN AM CONSERVATION™

June 2025

Executive Summary

"I enjoyed learning right along with my students about conserving energy. I also liked the activities to get them more involved."

Brandi Humphries, Teacher
Pioneer - Pleasant Vale Elementary School

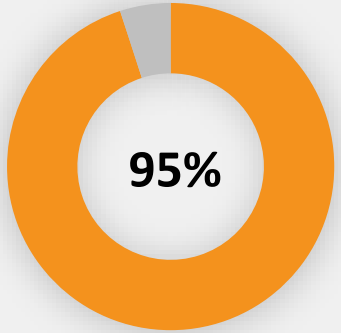
Executive Summary

AM Conservation is pleased to present this Program Summary Report to OG&E, which summarizes the 2024 Calendar Year OG&E LivingWise® Program. The program was implemented in the OG&E service area in the state of Oklahoma by 13,718 students, and their families.

The following pages provide an overview of the program and materials, outline of program implementation, introduction to the program team, description of program enhancements, impact of the program, and summary of results from the home activities. In addition to this information, evaluations, letters, and comments are provided for a glimpse into actual participant feedback. Lastly, projected savings from the individual measures found within the LivingWise Kit are also included.

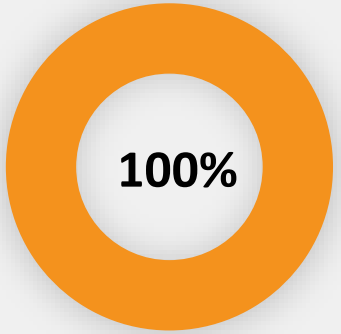
Participant Satisfaction

A successful program excites and engages participants. Students, parents, and teachers are asked to evaluate the program and provide personal comments. A sample of the feedback is given in the margin.



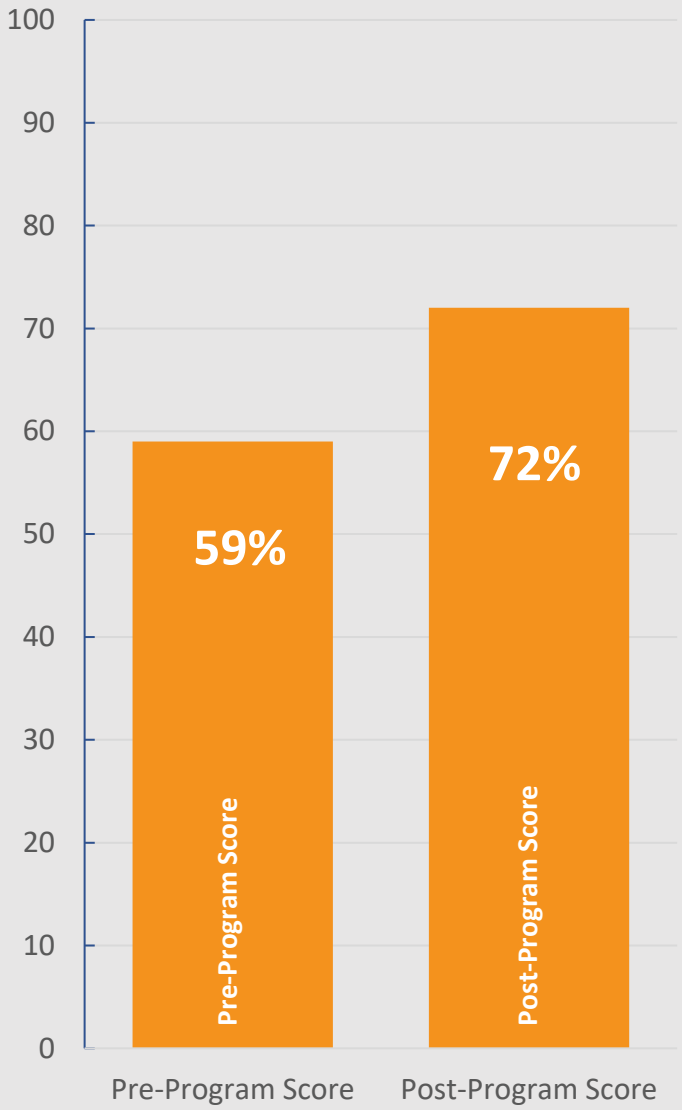
Teachers who indicated parents supported the program.

Teachers who indicated they would recommend this program to other colleagues.



Teachers who indicated they would conduct this program again.

Executive Summary

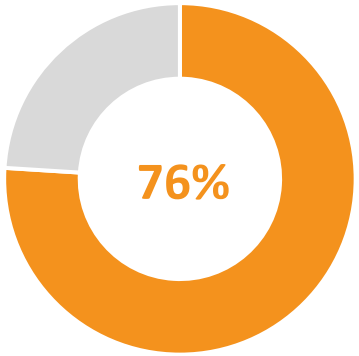


Knowledge Gained

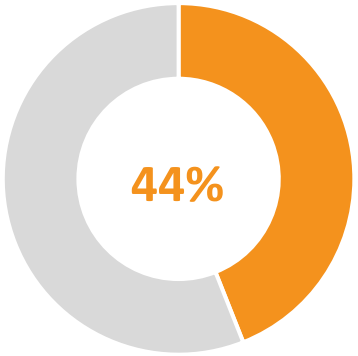
Identical tests were administered to the students prior to the program and again upon program completion to measure knowledge gained. Scores and subject knowledge improved from 59% to 72%.

Data Obtained

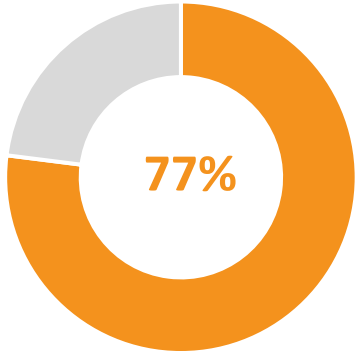
Home surveys were taken by students and their families, which collected household demographic and consumption data along with program participation information.



Student who reported that their family homes were owned.



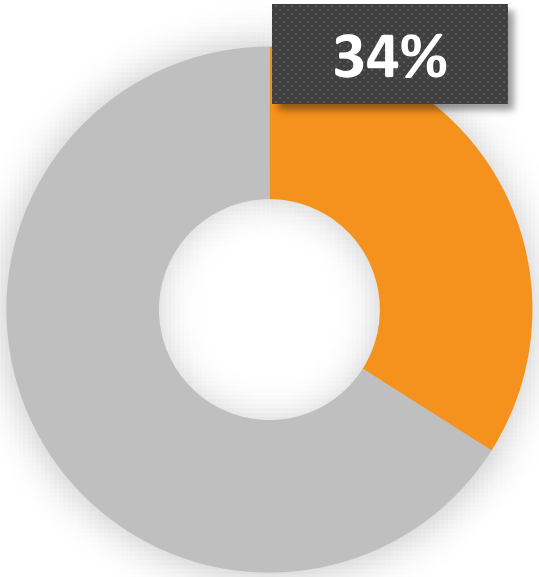
Student who reported that their water was heated by electricity.



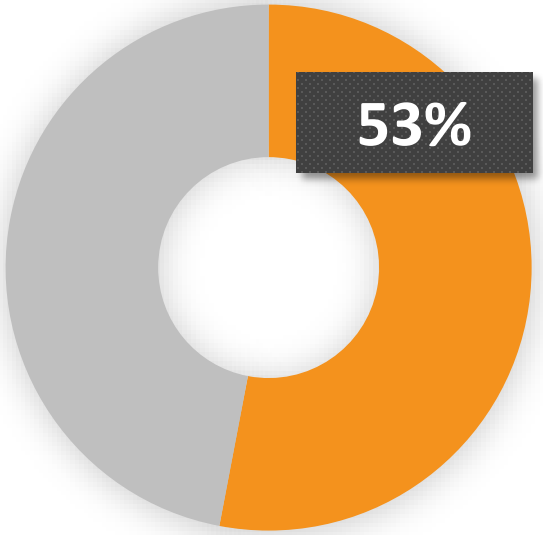
Student who reported that their home has a dishwasher.

Measures Installed

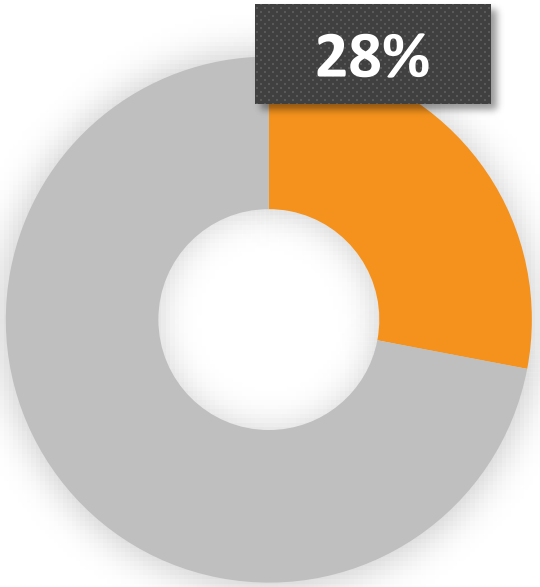
Students completed take-home activities as part of the program and reported on the kit measures they installed in their homes.



Students who reported installing the Showerhead.



Students who reported installing the First LED Light Bulb



Students who reported installing the Kitchen Faucet Aerator.

Energy and Water Savings Results

In addition to educating students and their parents, a primary program goal is to generate cost-effective energy and water savings. Student home surveys not only provided the data used in the savings projections, but also reinforced the learning benefits.

Projected Resource Savings

PROJECTED ANNUAL SAVINGS	
77,961,669	gallons of water saved
2,774,203	kWh of electricity saved
324.98	kW peak demand reduction

PROJECTED ANNUAL SAVINGS PER HOME	
5,683	gallons of water saved
202.23	kWh of electricity saved
0.02369	kW peak demand reduction

PROJECTED LIFETIME SAVINGS	
779,616,693	gallons of water saved
27,905,007	Net kWh of electricity saved

PROJECTED LIFETIME SAVINGS PER HOME	
56,832	gallons of water saved
2,034	Net kWh of electricity saved

Program Overview

The OG&E Oklahoma LivingWise® Program, a school-based energy efficiency education program, is designed to generate immediate and long-term resource savings by bringing interactive, real-world education home to students and their families. The 2024 Calendar Year program was taught in 5th grade throughout the OG&E Oklahoma service area.

The OG&E Oklahoma LivingWise® Program team identifies and enrolls students and teachers within the designated service area. The program physically begins with classroom discussions using a Student Guide that provides the foundations of using energy and water efficiently. It is followed by hands-on, creative, problem-solving activities led by the classroom teacher.

All program materials support state and national academic standards to allow the program to fit easily into a teacher's existing curriculum and requirements. The participating classroom teachers follow the Teacher Book and lesson plan. Information is given to guide lessons throughout the program in order to satisfy each student's individual needs, whether they are visual, auditory, or kinesthetic learners.

The LivingWise Kit and Student Take-Home Workbook comprise the take-home portion of the program. Students receive a kit containing high-efficiency measures they use to install within their homes. With the help of their parents/guardians, students install the kit measures and complete a home survey. The act of installing and monitoring new energy efficiency devices in their homes allows students to put their learning into practice. Here, participants and their parents/guardians realize actual water and energy savings within their home, benefitting two generations.

A critical element of AM Conservation program design is the use of new knowledge through reporting. At the end of the program, the OG&E program team tabulates all participant responses—including home survey information, teacher responses, student letters, and parent feedback—and generates this Program Summary Report.

"For more than 30 years, AM Conservation has designed and implemented Measure-Based Education® programs. The programs inspire change in household energy and water use habits while delivering significant and measurable resource savings."

Program Overview

Each participant in the OG&E Oklahoma LivingWise® Program receives classroom materials and energy efficiency kits containing high-efficiency measures to perform the program's take-home activities. Program materials for students, parents/guardians, and teachers are outlined below.

Each Student & Teacher Receives

Student Guide
Student Take-Home Workbook
Parent Letter/Pledge Form*
Student Survey Form
Certificate of Achievement

LivingWise Kit Containing:

- (1) High-Efficiency Showerhead
- (2) LED Light Bulbs
- (1) Bathroom Faucet Aerator
- (1) Kitchen Faucet Aerator
- (1) LED Night Light
- (1) Advanced Power Strip
- Digital Thermometer
- Flow Rate Test Bag
- Parent/Guardian Program Evaluation
- Quick Start Guide
- Installation Booklet

OG&E Wristband
Program Website Access at Getwise.org
Toll-Free HELP Line

Each Teacher/Classroom Receives

Teacher Book
Step-by-Step Program Checklist
Lesson Plans
State Academic Standards Chart
Teacher Survey Form
Pre/Post Student Survey Answer Keys
Water, Electricity and Natural Gas Posters
Self-Addressed Postage-Paid Envelope

** Materials / Installation Instructions provided in English and Spanish*

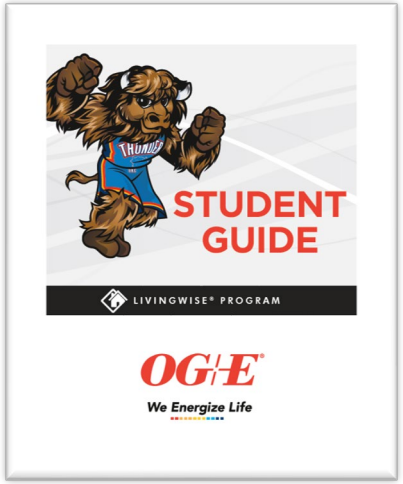
Program Overview

Custom Branding

In addition to increasing resource awareness and efficiency, the program has been designed to strengthen bonds between OG&E and the community. One of the steps taken to ensure the greatest possible exposure is to feature the OG&E logo throughout each LivingWise Kit. In addition to the kit, the Teacher Survey Form and Parent Letter/Pledge Form also feature OG&E branding.

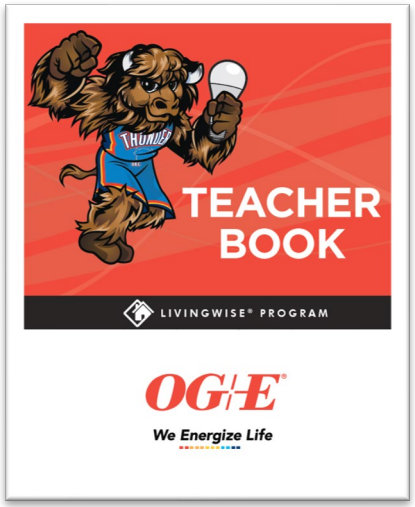
Program Overview

Program Materials

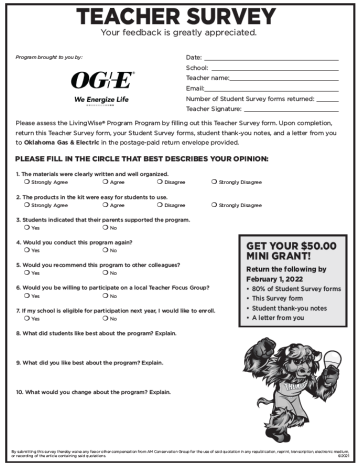


Student Guide

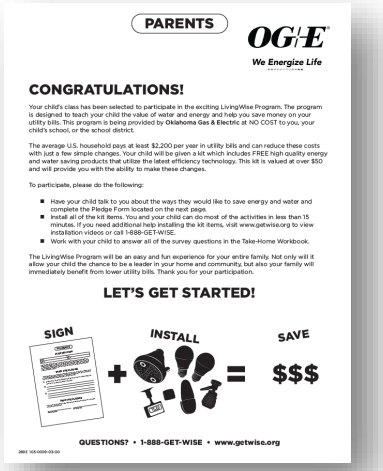
Student Take-Home Workbook



Teacher Book



Teacher Survey Form



Parent Letter/Pledge Form

Certificate of Achievement

Program Implementation

The 2024 Calendar Year OG&E Oklahoma LivingWise® Program followed this comprehensive implementation schedule:

1. Identification of Oklahoma state academic standards & benchmarks
2. Curriculum development and refinement (completed annually)
3. Curriculum correlation to state academic standards & benchmarks
4. Materials modification to incorporate OG&E branding
5. Incentive program development
6. Teacher/school identification—with OG&E approval
7. Teacher outreach and program introduction
8. Teachers enrolled in the program individually
9. Implementation dates scheduled with teachers
10. Program material delivered to coincide with desired implementation date
11. Delivery confirmation
12. Periodic contact to ensure implementation and teacher satisfaction
13. Program completion incentive offered
14. Results collection
15. Program completion incentive delivered to qualifying teachers
16. Data analysis
17. Program Summary Report generated and distributed

Participating teachers are free to implement the program to coincide with their lesson plans and class schedules. The participant list within this document provides a comprehensive list of classrooms in the fifth grade that participated during the 2024 Calendar Year school year.

Parent Feedback

“This is an amazing opportunity for families to have informative conversations about conserving resources and how important stuff like this is.”

Cayla D Kilby, Parent
Manford Upper Elementary School

Program Team

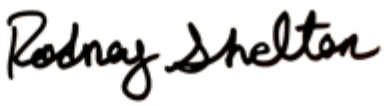
AM Conservation has been in the business of designing and implementing energy and water efficiency programs for nearly three decades. Throughout this time, we've built an expert team of industry professionals that deliver a seamless program to achieve your goals.

We designed the OG&E Oklahoma LivingWise® Program in our program center from the ground up. Working in conjunction with OG&E, we identified goals, desired outcomes of the program, and specific materials' customization. The result is a stimulating program that delivers significant and measurable resource savings. The OG&E Oklahoma LivingWise® Program features a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put efficiency knowledge to work in homes throughout the OG&E service territory.

The OG&E Oklahoma LivingWise® Program is a reflection of true teamwork. On behalf of the entire implementation team at AM Conservation, I would like to thank you for the opportunity to design and implement the OG&E Oklahoma LivingWise® Program. It has been a pleasure working with you. I look forward to many more years of program success.

Sincerely,

Josh Levig
Program Manager



Rodney Shelton
Senior Director of Business Development

Lee Moran
Senior Program Manager, PMP®, CEM®

Program Team

Program Team

The success of the OG&E Oklahoma LivingWise® Program is owed to a cross-functional implementation team chosen specifically to meet the goals of the program. We incorporated both a PMP® certified Program Manager and a CEM® designated energy analyst to ensure the program hits key milestones and delivers results. These thought leaders are supported by an integral mix of specialists working in unity to accomplish your program objectives. The OG&E Oklahoma LivingWise® Program implementation team consisted of the following:

Outreach

Our outreach team is the face of the OG&E Oklahoma LivingWise® Program, introducing teachers to the program, and providing support throughout implementation to guarantee the program's success in the classroom. This group builds relationships and keeps teachers engaged in program execution year after year.

Graphic Design and Marketing

Expertly-designed kits and program materials are a result of our Graphic Design and Marketing teams. This group provides brand alignment and marketing strategies to ensure program branding is within guidelines. Additionally, this team facilitates copy and art direction and works with education to develop end-user activities.

Education

Led by a Ph.D. educator having both classroom and administration leadership experience, this team is responsible for the development of educational content as well as classroom energy literacy and engagement. The group also ensures the program's content is aligned with state expectations in science, math, and language as well as the rigorous expectations of STEM (Science, Technology, Engineering, and Math).

Information Technology

We leave IT strategy and cyber security in the hands of our experts. This team built and manages the integrated systems responsible for seamlessly blending operations, driving automation, and maximizing participation in the OG&E Oklahoma LivingWise® Program. This group provides the managed data services and software in support of outreach, enrollment, order processing, fulfillment, data collection and reporting.

Warehouse and Logistics

Last but not least, our warehouse and logistics teams guarantee OG&E Oklahoma LivingWise® program materials reach the classroom on-time and without errors. This group provides printing, purchasing, production, quality assurance & control, warehousing and shipping for all program materials. Additionally, this team ensures that all materials are consistent with orders and confirms delivery.

Program Impact

"AM Conservation utilizes an extensive network of educators for program feedback. This feedback ensures that educational components meet the changing needs of educators, keep information relevant to students, and provide increased energy literacy for program participants.

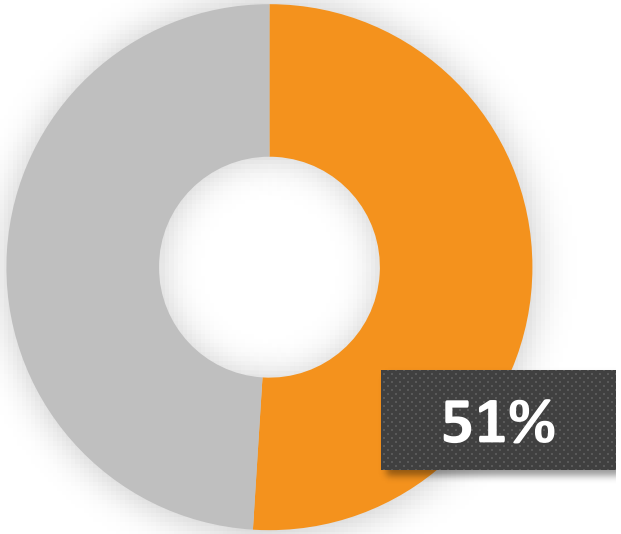
The OG&E Oklahoma LivingWise® Program has had a significant impact within the community. As illustrated on the next pages, the program successfully educated participants about energy and water efficiency while generating resource savings through the installation of efficiency measures in homes. Home survey information was collected to track projected savings and provide household consumption and demographic data. Program evaluations and comments were collected from teachers, students, and parents.

Home Survey

Upon completion of the program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information, and measure participation rates. A few samples of questions asked are below while a complete summary of all responses is included in the appendices.

Did you work with your family on this program?

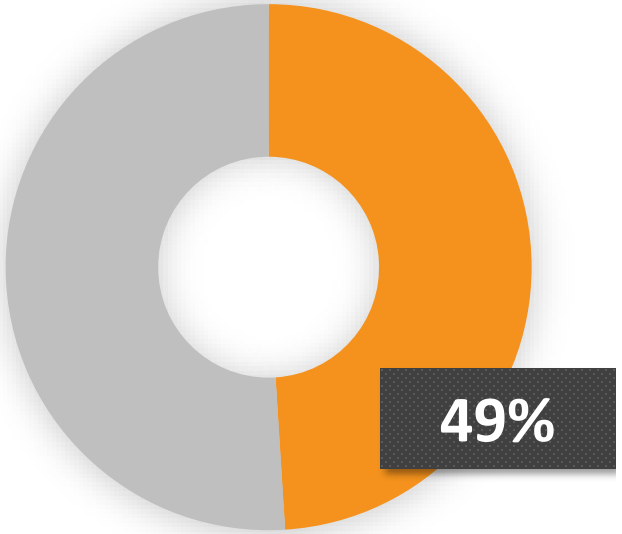
Yes 51%, No 49%



Students who indicated they worked with their family on the program.

Did your family change the way they use energy?

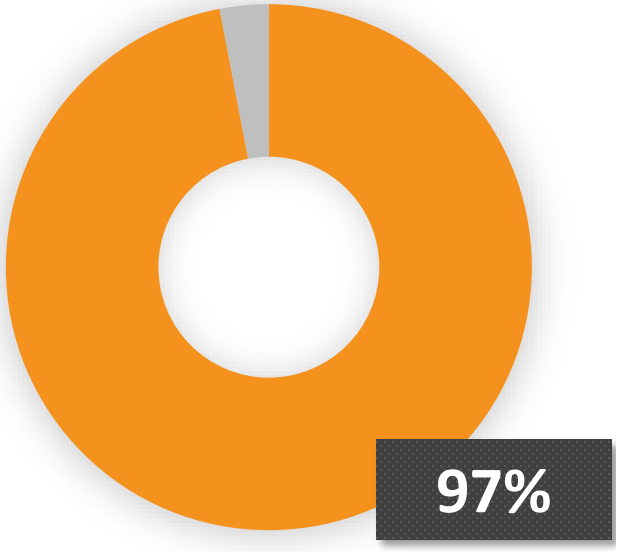
Yes 51%, No 49%



Students who indicated their family changed the way they use energy.

Students who rated the program Okay, pretty good and great.

Okay to Great 96%, Not good 4%



Students who rated the program Okay, pretty good and great.

Teacher Feedback

“What I like best about the program is that I love that the kids love it. I like the easy-to-use/understand workbooks and the calculation explanations.”

Melisa Smith, Teacher
Union Elementary School

Program Impact

Home Activities

As part of the program, parents and students installed resource efficiency measures in their homes. They also measured the pre-existing devices to calculate savings that they generated. Using the family habits collected from the home survey as the basis for this calculation, 13,718 households are expected to save the following resource totals. Savings from these actions and new behaviors will continue for many years to come.

Projected Resource Savings

Number of Participants:	13,718		
	Annual	**Lifetime**	
Projected reduction from Showerhead retrofit:	725,364	7,253,642	kWh
Product Life: 10 years	63,665,193	636,651,930	gallons
Projected reduction from Bathroom Aerator retrofit:	125,618	1,256,179	kWh
Product Life: 10 years	3,414,881	34,148,806	gallons
Projected reduction from Kitchen Aerator retrofit:	482,696	4,826,957	kWh
Product Life: 10 years	10,881,596	108,815,957	gallons
Projected reduction from two LED Lightbulbs retrofit:	252,157	3,278,039	kWh
Product Life: 13 years			
Projected reduction from Water Heater Setback:	74,187	148,374	kWh
Product Life: 2 years			
Projected reduction from Advanced Power Strip:	1,114,182	11,141,816	kWh
Product Life: 10 years			
TOTAL PROGRAM SAVINGS:	**2,774,203**	**27,905,007**	**kWh**
	77,961,669	**779,616,693**	**gallons**
TOTAL PROGRAM SAVINGS PER HOUSEHOLD:	**202.23**	**2,034**	**kWh**
	5,683	**56,832**	**gallons**
TOTAL PROGRAM kW DEMAND REDUCTION:			
Showerhead:	75.44900		
Bathroom Faucet Aerator:	16.87314		
Kitchen Faucet Aerator:	64.74896		
Two LED Light Bulbs:	34.29500		
Water Heater Setback:	6.03592		
Advanced Power Strip:	127.57740		
Total:	**324.98**		
TOTAL PROGRAM DEMAND REDUCTION PER HOUSEHOLD:	**0.02369**		

Program Impact

Teacher Program Evaluation

Program improvements are based on participant feedback received. One of the types of feedback obtained is from participating teachers via a Teacher Program Evaluation Form. They are asked to evaluate relevant aspects of the program and each response is reviewed for pertinent information. The following is feedback from the Teacher Program Evaluation for the OG&E Oklahoma LivingWise® Program.

Teacher Response

100% of responding teachers indicated they would conduct the program again given the opportunity.
100% of responding teachers indicated they would recommend the program to their colleagues.

What did you like best about the program?

"I liked the different ways to involve the students. It was written on their level." **Deborah Lanigan, Antioch Christian Academy**

"The students loved the items in their bags and they would talk about how they would use them." **Kasey Stancell, Perkins-Tryon Intermediate School**

"Going over the products in the bags and listening to students' ideas on saving energy." **Kristin Marlar, Eastlake Elementary School**

What would you change about the program?

"Nothing, I really like the change to the sling bags other than a box last year." **Jennifer Williams, Willard Grade Center**

"Nothing about the program, but I would do it earlier." Jeanette Shropshire**, Ripley Elementary School**

"I think it is perfect and have been using it for years. the students love it!" **Bridget Borges, Chaffin Middle School**

Program Impact

Parent/Guardian Program Evaluation

Parent involvement with program activities and their children is of paramount interest to both utilities and teachers in the program. When parents take an active role in their child's education it helps the schools and strengthens the educational process considerably. When students successfully engage their families in retrofit, installation, and home energy efficiency projects, efficiency messages are powerfully delivered to two generations in the same household. The program is a catalyst for this family interaction, which is demonstrated by feedback from Parent/Guardian Program Evaluations in each program. The following is feedback from the Parent/Guardian Program Evaluations for the OG&E Oklahoma LivingWise® Program.

Parent Response

100% of participating parents indicated that the program was easy to use.
100% of participating parents indicated they would continue to use the kit items after the completion of the program.
100% of participating parents indicated they would like to see this program continued in local schools.

Which aspect of the program did you like best?

"I enjoyed working through the math. Allowing my child to see and work out real equations to see the differences." **Cayla D Kilby, Mannford Upper Elementary School**

"Honestly... The excitement on my child's face. The fact that she learned so much." **Cathy Waybourn, Strother Elementary School**

Are there any comments you would like to express to your child's program sponsor?

"This is a great program for the students. Great job!" **Cora Winterscheid, Strother Elementary School**

"Thank you for the opportunity." **Cathy Waybourn, Strother Elementary School**

Projected Savings

Projected Savings from Showerhead Retrofit

Showerhead retrofit inputs and assumptions:		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	52.87682	kWh[2]
Deemed kW Savings per Participant	0.00550	kW[2]
Deemed Water Gallon Savings per Participant	4,640.99672	gallons[2]
Estimated Useful Life	10.00	years[2]
Projected Energy Savings:		
Showerhead retrofit projects an annual reduction of:	725,364.217	kWh[3]
Showerhead retrofit projects a net lifetime reduction of:	7,253,642	kWh[4]
Projected Demand Reduction Savings:		
Showerhead retrofit projects an annual reduction of:	75.449	kW[5]
Projected Water Savings:		
Showerhead retrofit projects an annual reduction of:	63,665,193.005	gallons[6]
Showerhead retrofit projects a lifetime reduction of:	636,651,930.050	gallons[7]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

[6] Deemed gallons X Participants

[7] Deemed gallons X Participants X EUL

Projected Savings from Bathroom Faucet Aerator Retrofit

Bathroom Faucet Aerator retrofit inputs and assumptions:		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	9.15716	kWh[2]
Deemed kW Savings per Participant	0.00123	kW[2]
Deemed Water Gallon Savings per Participant	248.93429	gallons[2]
Estimated Useful Life	10.00	years[2]
Projected Energy Savings:		
Bathroom Faucet Aerator retrofit projects an annual reduction of:	125,617.921	kWh[3]
Bathroom Faucet Aerator retrofit projects a net lifetime reduction of:	1,256,179	kWh[4]
Projected Demand Reduction Savings:		
Bathroom Faucet Aerator retrofit projects an annual reduction of:	16.87314	kW[5]
Projected Water Savings:		
Bathroom Faucet Aerator retrofit projects an annual reduction of:	3,414,880.590	gallons[6]
Bathroom Faucet Aerator retrofit projects a lifetime reduction of:	34,148,805.902	gallons[7]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

[6] Deemed gallons X Participants

[7] Deemed gallons X Participants X EUL

Projected Savings

Projected Savings from the Kitchen Faucet Aerator Retrofits

Kitchen Faucet Aerator retrofit inputs and assumptions:		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	35.18703	kWh[2]
Deemed kW Savings per Participant Kit	0.00472	kW[2]
Deemed Water Gallon Savings per Participant	793.23485	gallons[2]
Estimated Useful Life	10.00	years[2]
Projected Energy Savings:		
Kitchen Faucet Aerator retrofit projects an annual reduction of:	482,695.678	kWh[3]
Kitchen Faucet Aerator retrofit projects a net lifetime reduction of:	4,826,957	kWh[4]
Projected Demand Reduction Savings:		
Kitchen Faucet Aerator retrofit projects an annual reduction of:	64.749	kW[5]
Projected Water Savings:		
Kitchen Faucet Aerator retrofit projects an annual reduction of:	10,881,595.672	gallons[6]
Kitchen Faucet Aerator retrofit projects a lifetime reduction of:	108,815,956.723	gallons[7]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

[6] Deemed gallons X Participants

[7] Deemed gallons X Participants X EUL

Projected Savings from Two LED Light Bulbs Retrofit

Two LED Light Bulbs retrofit inputs and assumptions:		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	18.38146	kWh[2]
Deemed kW Savings per Participant	0.002500	kW[2]
Estimated Useful Life	13.00	years[2]
Projected Energy Savings:		
LED Light Bulb retrofit projects an annual reduction of:	252,156.868	kWh[3]
LED Light Bulb retrofit projects a net lifetime reduction c	3,278,039	kWh[4]
Projected Demand Reduction Savings:		
LED Light Bulb retrofit projects an annual reduction of:	34.295	kW[5]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

Projected Savings

Projected Savings from Water Heater Setback

Water Heater Setback		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	5.40800	kWh[2]
Deemed kW Savings per Participant	0.00044	kW[2]
Estimated Useful Life	2.00	years[2]
Projected Energy Savings:		
Water Heater Setback has an annual reduction of:	74,186.9440	kWh[3]
Water Heater Setback has a net lifetime reduction of:	148,374	kWh[4]
Projected Demand Reduction Savings:		
Water Heater Setback has an annual reduction of:	6.0359	kW[5]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

Projected Savings from Advanced Power Strip

Advanced Power Strip		
Number of Participants:	13,718 [1]	
Deemed kWh Savings per Participant	81.22041	kWh[2]
Deemed kW Savings per Participant	0.00930	kW[2]
Estimated Useful Life	10.00	years[2]
Projected Energy Savings:		
Advanced Power Strip has an annual reduction of:	1,114,181.5844	kWh[3]
Advanced Power Strip has a net lifetime reduction of:	11,141,816	kWh[4]
Projected Demand Reduction Savings:		
Advanced Power Strip has an annual reduction of:	127.5774	kW[5]

[1] Reported by Participants

[2] 2024 EMV Report

[3] Deemed kWh X Participants

[4] Deemed kWh X Participants X EUL

[5] Deemed kW X Participants

Home Check-Up

1 How many people live in your home (including you)?

1	1%
2	4%
3	13%
4	30%
5	27%
6	15%
7+	11%

2 How is your water heated?

Natural Gas	38%
Electricty	44%
Propane	19%

3 Does your home have a dishwasher?

Yes	77%
No	23%

4 How many half bathrooms are in your home?

0	66%
1	26%
2	5%
3	2%
4+	1%

5 How many full bathrooms are in your home?

1	27%
2	54%
3	13%
4	4%
5+	1%

6 Which fuel is used as the main source of energy to heat your home?

Natural Gas	25%
Electricity	57%
Heating Oil	2%
Wood	2%
Propane	11%
Other	3%

7 What type of air conditioning unit do you have?

Central Air Conditioner	74%
Evaporative Cooler	6%
Room Unit	16%
Don't Have One	4%

8 What type of home do you live in?

Single Family home	86%
Multi-Family Home/Apartment Building	14%

9 Was your home built before 1992?

Yes	46%
No	54%

10 Is your home owned or rented?

Owned	76%
Rented	24%

Home Activities

1	Did your family install the new High-Efficiency Showerhead?	
	Yes	34%
	No	66%
2	Did your family install the new Bathroom Faucet Aerator?	
	Yes	27%
	No	73%
3	Did your family install the new Kitchen Faucet Aerator?	
	Yes	28%
	No	72%
4	Did your family install the first 9-watt LED Light Bulb?	
	Yes	53%
	No	47%
5	Did your family install the second 9-watt LED Light Bulb?	
	Yes	43%
	No	57%
6	Did your family install the Advanced Power Strip in your home?	
	Yes	62%
	No	37%
7	If you answered "yes" to question 6, where did you install your Advanced Power Strip?	
	TV System	26%
	Computer System	18%
	Other	56%
8	If you answered "yes" to question 6, did you received help from your parents?	
	Yes	46%
	No	54%
9	Did your family raise the temperature on your refrigerator?	
	Yes	19%
	No	81%
10	How much did your family turn down the thermostat in winter for heating?	
	1 - 2 Degrees	15%
	3 - 4 Degrees	17%
	5+ Degrees	13%
	Didn't Adjust Thermostat	55%
11	How much did your family turn up the thermostat in summer for cooling?	
	1 - 2 Degrees	14%
	3 - 4 Degrees	19%
	5+ Degrees	13%
	Didn't Adjust Thermostat	54%
12	Did your family lower your water heater settings?	
	Yes	21%
	No	79%
13	Did you work with your family on this program?	
	Yes	51%
	No	49%
14	Did your family change the way they use energy?	
	Yes	49%
	No	51%
15	How would you rate the LivingWise Program?	
	Great	38%
	Pretty Good	34%
	Okay	24%
	Not so Good	3%

Teacher Program Evaluation Data

1 The materials were clearly written and well organized.

Strongly Agree	68%
Agree	27%
Disagree	5%
Strongly Disagree	0%

2 The products in the kit were easy for students to use.

Strongly Agree	59%
Agree	41%
Disagree	0%
Strongly Disagree	0%

3 Student indicated that their parents supported the program.

Yes	95%
No	5%

4 Would you conduct this program again?

Yes	100%
No	0%

5 Would you recommend this program to other colleagues?

Yes	100%
No	0%

6 If my school is eligible for particpation next year, I would like to enroll.

Yes	95%
No	5%

Parent Program Evaluation Data

1 Was the Program easy for you and your child to use?

Yes	100%
No	0%

2 Will you continue to use the Kit items after the completion of the Program?

Yes	100%
No	0%

3 Would you like to see this Program continued in local schools?

Yes	100%
No	0%

Participant List

School Name	Teacher	Students
Achille Elementary School	Toby Isenberg	48
Antioch Christian Academy	Deborah Lanigan	10
Apple Creek Elementary School	Jessica Mitchell	75
Barnes Elementary School	Kayla Knight	21
Barnes Elementary School	Mandi Cornell	21
Barnes Elementary School	Marilyn McCall	47
Barnes Elementary School	Michelle Schubert	26
Beggs Middle School	Angela Lopez	83
Belfonte Elementary School	Bobbie Jo Real	17
Belfonte Elementary School	Chad Smith	9
Belle Isle Middle School	Elizabeth Maples	143
Bokoshe Elementary School	Angela Rosa	54
Bradley Elementary School	Chase Huston	13
Braggs Elementary School	Cyndi Bailey	101
Briarwood Elementary School	Peyton Cossey	6
Bristow Adventist School	Patricia Perez	26
Broadmoore Elementary School	Dianne Babb	96
Broadmoore Elementary School	Sheila Jones	87
Bryant Elementary School	Kristina Rodgers	281
Byng Elementary School	Calli-Jo Presley	221
Byng Elementary School	Dee Bohan	21
Calera Elementary School	Lisa Bishop	27
Calumet Elementary School	Amanda Estep	28
Cameron Elementary School	Mary Stewart	151
Canton Elementary School	Kim Murray	83
Canyon Ridge Intermediate	Mark Fincher	25
Casady School	Shannon Semet	25
Central Elementary School	Avery Donegan	25
Central Elementary School	Cassidy Malm	25
Central Elementary School	Christine Clay	81
Central Elementary School	Shawna Jackson	106
Central Oak Elementary School	Juanita Cunningham	28
Checotah Intermediate School	Tina Womack	26
Cherokee Elementary School	Filisha Church	23

School Name	Teacher	Students
Cherokee Elementary School	Williams Tindell	60
Cleveland Bailey Elementary School	Kristian Walker	30
Cleveland Bailey Elementary School	Twyla Penn	30
Collins Elementary School	Deva Darr	65
Collins Elementary School	Jessica Montgomery	65
Coyle Elementary School	BRENT LEMMONS	31
Creek Elementary School	Jani Reheard	146
Cross Timbers Elementary School	Cody Swinson	146
Davis Middle School	Brittani Martinez	48
Davis Middle School	Daleen Jones	16
Davis Middle School	Dustin Hammons	101
Davis Middle School	Jeff Mapes	26
Dickson Upper Elementary School	Emile Winchester	30
Dove Science Academy South Elementary	Angela Cooley	120
Dove Science Academy South Elementary	Kaoutar Tahiri	26
Dove Science Academy South Elementary	Tamanna Chugh	50
Drummond Elementary School	Kim Arnold	50
Durant Intermediate School	Arlene McKim	50
Durant Intermediate School	Myra Skelton	55
Durant Intermediate School	Susan Hall	55
Durant Intermediate School	Tommy Bryant	55
Durant Intermediate School	Tracy Risner	26
Durant Intermediate School	Vicki Sutton	26
Earl Harris Elementary School	Elizabeth Marlowe	26
Earl Harris Elementary School	Heather Radichel	26
Earl Harris Elementary School	Karla White	26
Earl Harris Elementary School	Nancy Summers	33
Earl Harris Elementary School	Youmi Carroll	1
Earlsboro Elementary School	Erica Hirrill	53
Earlsboro Elementary School	Kim Williams	73
Earlywine Elementary School	Raegan Reid	22
Eastlake Elementary School	Kristin Marlar	2
Eisenhower Elementary School	Cristil Carillo	11
Epic Charter Schools	Tresta Raber	18
Family of Faith Christian School	Sharon Phillips	43

Participant List (cont.)

School Name	Teacher	Students
First Lutheran School	Krista Haberson	83
Fort Gibson Intermediate Elementary School	Amy Hasler	22
Fort Gibson Intermediate Elementary School	Angie Marshall	20
Fort Gibson Intermediate Elementary School	Autumn Keese	21
Fort Gibson Intermediate Elementary School	Cassie Gideon	20
Fort Gibson Intermediate Elementary School	Jimmie Hammontree	20
Fort Gibson Intermediate Elementary School	Karlee Ritchie	20
Fort Gibson Intermediate Elementary School	Mindy Culver	73
Glenpool Intermediate School	Danny Webb	25
Glenwood Elementary School	Deseray Divis	45
Glenwood Elementary School	Marisa Burrell	4
Good Shepherd Lutheran School	Linda Harke	7
Good Shepherd Lutheran School	Marla Junghanns	68
Grove Elementary School	Kristine Speer	46
Healdton Elementary School	Natasha Moore	31
Heavener Elementary School	Mark Miller	31
Heavener Elementary School	Misty Enger	55
Heavener Elementary School	Tiffany Kirby	143
Heritage Hall School	Morgan Rom	12
Heritage Hall School	Rebecca Whitton	10
Higher Plain Christian Academy	Javier Rodriguez	21
Horace Mann Elementary School	Alyssa Black	41
Horace Mann Elementary School	Alyssa Mcgrew	21
Horace Mann Elementary School	Macee Beheler	24
Howe Elementary School	Coty Atkins	24
Howe Elementary School	Jamie Nobles	29
Independence Middle School	Akira Mcguire	31
Independence Middle School	Erin Harris	61
Independence Middle School	Rachel Baker	61
Independence Middle School	Sandy Winn	61
Independence Middle School	Tina Myers	25
James Griffith Intermediate School	Amy Barbee	24
James Griffith Intermediate School	Christina Sundly	25
James Griffith Intermediate School	Janet Cornsilk	24
James Griffith Intermediate School	Jordan Rausch	25

School Name	Teacher	Students
James Griffith Intermediate School	Megan Snead	18
Jefferson Elementary School	Bryan Karinshak	20
Jefferson Elementary School	Daniel Higgins	20
Jefferson Elementary School	Gabriel Rucci	24
Jefferson Elementary School	Gina Parks	24
Jefferson Elementary School	Matt Engel	24
Jefferson Elementary School	Susan Morrison	88
John Marshall Middle School	Miata Pride	184
John Marshall Middle School	Robert Turner	95
John Rex Charter School	Kristin Lawson	75
Justice Elementary School	Kennedy Wardlow	18
Kingsgate Elementary School	Arica Dick	70
Kingston Elementary School	Sara Carter	89
Konawa Elementary School	Amity Carter	51
Kremlin-Hillsdale Elementary School	Heather Carson	20
Lakeview Elementary School	Kaylee Mckinney	15
Lakeview Elementary School	Rebecca Johnson	15
Lakeview Intermediate	Amy Barnes	25
Legacy Christian	Charity Scott	100
Liberty Elementary School	Marcus Flores	18
Liberty Elementary School	Stefanie Gilbert	43
Liberty Mounds Elementary School	Burton Mclain	18
Life Christian Academy	Charles Loch	43
Lincoln Elementary School	Zackery Robertson	15
Lincoln Elementary School	Ashley Brinkley	25
Lincoln Elementary School	Christi Vickers	20
Lincoln Elementary School	Crystal Clapp	19
Lincoln Elementary School	Emily Stein	19
Lincoln Elementary School	Sarah Eckhardt	18
Lincoln Elementary School	Tonya Stevenson	32
Little Axe Elementary School	Robin Jones-Carpenter	100
Lomega Elementary School	Chay Lee	106
Lone Grove Intermediate School	Jennifer Dobbins	107
Mannford Upper Elementary School	Amanda Kyser	125
Maple Elementary School	Shana Thiel	26

Participant List (cont.)

School Name	Teacher	Students
Mary Golda Ross Middle School	Justin Mishion	214
Mary Golda Ross Middle School	T Supernaw	70
Mary White Elementary School	Kristi Johnson	55
Mary White Elementary School	Shannan Martinez	22
Maysville Elementary School	Jessica Dean	20
McKinley Elementary School	Mary-Elizabeth Brock	20
McKinley Elementary School	Nuvia Gonzalez	28
McLish Middle School	Andrea Wright	35
McLish Middle School	Kris Larsh	31
Medford Elementary School	Haley Edgar	21
Morrison Elementary School	Kyla Poulton	101
Morrison Elementary School	Tiffany Schlehuber	30
Mounds Middle School	Stephanie Sturman	43
Muldrow Middle School	Alana Walters	105
Muldrow Middle School	Jamie Patterson	224
New Lima Elementary School	Jessica Carr	75
Newcastle Elementary School	Jay Thomas	26
North Rock Creek Schools	Luci Copelin	51
Northridge Elementary School	Bryan Pill	26
Northridge Elementary School	Jamee Greene	1
Northridge Elementary School	Joel Dyer	1
Northridge Elementary School	Michael Turner	111
Northwood Elementary School	Ashlee Hunter	1
Northwood Elementary School	Kristi Creel	16
Northwood Elementary School	Mavery White	4
Northwood Elementary School	Mitch Wainwright	81
Oak Hall Episcopal School	Amy Flanagan	124
Oakdale Intermediate School	Lisa Pitts	19
Oakridge Elementary School	Lori Newmark	63
Oktaha Elementary School	Susan Ledford	158
Oktaha Elementary School	Tonya Bush	5
Panama Upper Elementary School	Stacey Bradshaw	123
Pansy Kidd Middle School	Kenneth Braden	26
Paoli Elementary School	Joni Milligan	26
Parkview Elementary School	Adrienne Gaudi	26

School Name	Teacher	Students
Parkview Elementary School	Chelci Bauer	85
Parkview Elementary School	Shaya Sims	20
Parkview Elementary School	Stephanie Wissman	19
Parkview Elementary School	Stephen Anderson	19
Pauls Valley Elementary School	Kristine Porter	18
Perkins-Tryon Intermediate School	Aaron Stanberry	17
Perkins-Tryon Intermediate School	Beth Watt	18
Perkins-Tryon Intermediate School	Jake Niles	76
Perkins-Tryon Intermediate School	Kasey Stancell	16
Perkins-Tryon Intermediate School	Lilia Wall	24
Perkins-Tryon Intermediate School	Tabitha Scoggins	22
Pershing Elementary School	Heather Morrison	15
Pioneer - Pleasant Vale Elementary School	Brandi Humphries	21
Pioneer - Pleasant Vale Elementary School	Deborah Whatley	11
Pleasant Hill Elementary School	Ladorsha Johnson	12
Positive Tomorrows School	Kristy Milner	52
Prairie View Elementary School	Wendi Collums	35
Putnam Heights Academy	Christin Murry	29
Putnam Heights Academy	Linda Roper	30
Ravia Elementary School	Vickie Pruitt	32
Ridgecrest Elementary School	Mayme Mockabee	22
Ridgecrest Elementary School	Morgan Cook	23
Ringling Elementary School	Aaron Blackwell	21
Ringwood Elementary School	Stephanie Edmondson	47
Ripley Elementary School	Jeanette Shropshire	55
Riverside Elementary School	Niki Spohn	50
Robin Hill Public School	Crystal Harkness	26
Robin Hill Public School	Vanessa Middleton	27
Robin Hill Public School	Vanessa Middleton	16
Roland Upper Elementary School	Melinda McKinney	5
Rosary School	Melissa Barron	13
Sacred Heart Catholic School	Roxanne Jorski	8
Saint Joseph Catholic School	David Adams	9
Sasakwa Elementary School	Sunny Stephens	10
Schwartz Elementary School	Christy Combs	70

Participant List (cont.)

School Name	Teacher	Students
Seiling School	Lisa Cole	18
Seiling School	Tiffani Lankford	17
Shady Point School	Danny Wann	32
Sharon-Mutual Elementary School	Leslie Robinson	121
Silo Elementary School	Brooke Noel	4
Soldier Creek Elementary School	Elisha Ashley	126
Sooner Elementary School	Amber Scoles	51
South Rock Creek Elementary School	Brandi Therrien	91
South Rock Creek Elementary School	Jo Stewart	45
Southeast Middle School	Clint Whelan	45
Southeast Middle School	Isaiah Sharp	27
Southeast Middle School	James Neely	24
Southeast Middle School	Jessica Geeslin	26
Southeast Middle School	Karlie Minson	27
Southeast Middle School	Katelynn Wise	23
Southeast Middle School	Passion Bradley	28
Southgate/Rippetoe Elementary School	Edna Kelly	150
Southgate/Rippetoe Elementary School	Halle Bell	151
Southgate/Rippetoe Elementary School	Heather Gonzalez (Pitt)	24
Southgate/Rippetoe Elementary School	Joshua Pangburn	24
Southgate/Rippetoe Elementary School	Kylie O'Brien	25
Springer Elementary School	Lora Lents	40
St. John Nepomuk Catholic School	Beth Sprague	20
St. Paul's Lutheran School	Adola Stocker	18
St. Paul's Lutheran School	Devin Wyssmann	26
St. Paul's Lutheran School	Joyce Holder	7
Strother Elementary School	Kandice Hargrove	7
Strother Elementary School	Lexus Morgan	14
Strother Elementary School	Renee James	30
Sulphur Intermediate Elementary School	Lacey Doty	35
Taft 5th Grade Center	Bunny White-Carona	140
Taft 5th Grade Center	Jeff Kennamer	48
Taft 5th Grade Center	Lynn Miner	48
Taft 5th Grade Center	Mary Dutcher	48
Taft 5th Grade Center	Rebecca Hamilton	92

School Name	Teacher	Students
Taft 5th Grade Center	Rochelle Ware	48
Taft 5th Grade Center	Steven Miller	48
Taft 5th Grade Center	Taylor Flinn	327
Taft Elementary School	Jessica Singley	25
Taft Elementary School	Kira Higgins	25
Thomas Middle School	Logan Proctor	81
Tinker Elementary School	Kayla Wilbanks	26
Tinker Elementary School	Stephanie Woodberry	26
Tony Goetz Elementary School	Keri Green	56
Townsend Elementary School	Brittany Mcneely	130
Townsend Elementary School	Greg Crall	22
Townsend Elementary School	Karen Bermudez	22
Townsend Elementary School	Mary Sullivan	22
Trinity School	Norma Morton	22
Union Elementary School	Melissa Smith	23
Vici Elementary School	Emily Harrel	18
Wanette Elementary School	Amber Hinton	27
Washington Elementary School	Cynthia Williamson	23
Washington Elementary School	Kim Moore	15
Washington Elementary School	Neal Bello	20
Washington Elementary School	Sabrina Hall	20
Washington Irving Elementary School	Shawna Shorb	20
Wayland Bonds Elementary School	Julie Robinson	20
Wayland Bonds Elementary School	Melissa Cosper	70
Wayland Bonds Elementary School	Stephanie Schoenecke	27
Webbers Falls Elementary School	Casey Newcomer	52
Webster Middle School	Edwin Rodriguez	19
Webster Middle School	Passion Bradley	51
Western Oaks Elementary School	Apriel-Nikolle Mack	125
Western Oaks Elementary School	Caitlyn Crawford	27
Western Oaks Elementary School	Dawn Mimms	28
Western Oaks Elementary School	Irvin Pina	28
Wheeler Middle School	Kandice Roberts	27
Wheeler Middle School	Shanika Stepeny	51
White Rock Public School	Leslie Rollins	72

Participant List (cont.)

School Name	Teacher	Students
Whitebead Elementary School	Tammy McGuire	25
Wiley Post Elementary School	Ashley Puccetti-Price	26
Wiley Post Elementary School	Briana Allen	26
Wiley Post Elementary School	Dana Scott	26
Wiley Post Elementary School	Destini O'Brien	26
Will Rogers Elementary School	Emma Kidd	22
Will Rogers Elementary School	Kassidee Norton	22
Will Rogers Elementary School	Kelsey Tucker	24
Will Rogers Elementary School	Michelle Bryson	22
Willard Grade Center	Chelsee Gray	100
Willard Grade Center	Jennifer Williams	121
Willard Grade Center	Mindy Direen	111
Wilson Elementary School	Amanda Stearns	35
Winding Creek Elementary School	Daniel Ummel	81
Winding Creek Elementary School	Jennifer Worley	80
Windsor Hills Elementary School	Brandi Chapman	23
Woodward Christian Academy	Robert Dwinelle	2
Young Achievers Christian Academy	DeShona Smith	34

Total Students	13,718

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7.4 Water and Emissions Methodology

Methodology to estimate a consistent, output-based emissions and fresh water savings rate from OG&E's operations

Background:

In an annual report, OG&E represents Demand Program emissions and water savings for The Oklahoma Corporation Commission. The following estimation methodology is used to maintain a consistent and reliable representation of this basis. Importantly, this methodology allows water and emissions to be compared on an equal footing due to the inclusion of only parameters under OG&E's direct operational control. For the Demand Program, an estimate is needed for: fresh water use, and emissions of nitrogen oxides (NO_x), sulfur dioxide (SO_2) & carbon dioxide-equivalents (CO_2e).

Assumptions:

1. Fresh water use and emission rates are derived from all power plants owned and operated by OG&E, including wind, solar, and fossil-fueled (natural gas and coal).
2. OG&E has direct control (i.e., is the operator) over these facilities and direct access to their water use, emissions, and power generation information.
3. Purchased power (from any source or state) is not part of this methodology as the associated water use and emissions are not accounted for by OG&E in regulatory programs or permits.
4. Renewable Emissions Credits (RECs) are not part of this calculation as they only pertain to CO_2e emissions and wind and solar generation, not part of any regulatory program, not certified and would be inconsistent with other environmental benefit estimations i.e., water conservation.

Calculation:

Fresh water use is based on the amount of water lost due to evaporation in the power generation process. Usage data is obtained from quality assured measurement systems which provide information for reporting to the Oklahoma Water Resources Board (OWRB) regarding water use governed by facility water rights permits. Water usage data for Frontier Power Plant is not reported to OWRB because this facility purchases water from the City of Oklahoma City. Frontier water use data is metered as it comes into the facility and when it leaves the facility. Emissions data is obtained from the Continuous Emissions Monitors (CEMs) Data Acquisition Handling System (DAHS) that is quality assured and consistent with information available from the Clean Air Markets Division (CAMD) of the Environmental Protection Agency (EPA). Generation data (gross megawatt hours (MWhs)), are derived from the sum of the gross output from OG&E-operated fossil-fueled generating units and the gross output of OG&E-owned renewable generation. The gross generation for fossil-fueled units is obtained from the same CEMS system as the emission data. Total gross generation from the McClain Power Plant is not required by the EPA CEMS reporting program referenced above, therefore, it is obtained from OG&E's Generating Availability Data System (GADS) database, a North American Electric Reliability Corporation (NERC)-developed database. GADS is a mandatory industry program for conventional generating units that are 20 MW and larger and windfarms with a total installed capacity of 75MW or greater. Currently, solar generation is not part of the NERC mandatory reporting requirements, therefore, solar MWh data is obtained from reliable, accurate OG&E sources other than GADS.

The output-based water use and emission rates are derived by dividing measured fresh water use, and emissions of NO_x, SO_2, and CO_2e from OG&E-operated fossil-fueled facilities by *gross* power generation (MWhs) from OG&E-operated fossil-fueled and OG&E owned renewable generation facilities.

Each of these factors is multiplied by the energy savings in MWh during the Demand Program period resulting in gallons of fresh water and mass (pounds or short tons) of emissions avoided by the OG&E-owned generating fleet over the duration.