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PUBLIC VERSION

June 16, 2025

BY HAND DELIVERY

Bernard Logan, Clerk
Document Control Center
State Corporation Commission
1300 E. Main St., Tyler Bldg., 1st Floor
Richmond, Virginia 23219

*Application of Virginia Electric and Power Company for approval of its 2023 DSM Update
pursuant to § 56-585.1 A 5 of the Code of Virginia*
Case No. PUR-2023-00217

Dear Mr. Logan:

Enclosed for filing in the above-referenced proceeding are an original and one (1) copy of the **PUBLIC VERSION** of Virginia Electric and Power Company's June 16, 2025 Evaluation, Measurement & Verification Report prepared by DNV (Volumes 1-8). An extraordinarily sensitive version is also being filed under seal under separate cover.

Please do not hesitate to call if you have any questions regarding the enclosed.

Highest regards,

/s/ Jontille D. Ray

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EVALUATION, MEASUREMENT, AND VERIFICATION REPORT

Developed for: Virginia Electric and Power Company
(Dominion Energy Virginia/Dominion Energy North Carolina)

Case No. PUR-2023-00217 (Virginia)
Docket No. E-22, Sub 711 (North Carolina)

Public version

Volume 1 of 8

June 16, 2025

Prepared by DNV Energy Insights USA Inc. (DNV)





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Data reflective of 2025 DSM EM&V Report results, including 2024 actuals and DSM projections

as of May 30, 2025

Table 1

Net at Meter	YEAR	VCEA Target MWh	VCEA Target %	DSM Phases < 11 MWh	DSM Phase 11 MWh	DSM Phase 12 MWh	DSM Phase 13 MWh	Opt-Outs MWh	Total DSM MWh	DSM %*
	2024	2,558,675	3.75%	1,022,493	19,786	-	-	63,977	1,106,256	1.6%
	2025	3,411,567	5%	1,229,392	46,380	19,748	-	64,446	1,359,966	2.0%
	2026	2,046,940	3%	1,509,128	62,081	53,564	54,358	64,915	1,744,046	2.6%
	2027	2,729,253	4%	1,692,742	73,854	95,464	148,136	65,384	2,075,579	3.0%
	2028	3,411,567	5%	1,769,416	87,144	150,430	243,814	65,853	2,316,656	3.4%

Table 2

Gross at Meter	YEAR	VCEA Target MWh	VCEA Target %	DSM Phases < 11 MWh	DSM Phase 11 MWh	DSM Phase 12 MWh	DSM Phase 13 MWh	Opt-Outs MWh	Total DSM MWh	DSM %*
	2024	2,558,675	3.75%	1,516,726	22,614	-	-	63,977	1,603,317	2.3%
	2025	3,411,567	5%	1,737,631	56,952	23,943	-	64,446	1,882,971	2.8%
	2026	2,046,940	3%	2,016,083	77,095	64,850	62,226	64,915	2,285,167	3.3%
	2027	2,729,253	4%	2,160,472	92,890	115,729	169,904	65,384	2,604,379	3.8%
	2028	3,411,567	5%	2,205,284	110,479	182,778	279,695	65,853	2,844,088	4.2%

* All values exclude NC and non-Jurisdictional DSM reductions

DEV DSM Dashboard



2024 at a Glance

Total Programs

Residential:	23
Business:	21
Residential / Business:	1

**Note - Phase XII Programs Launch '25*

Total Participants

Residential:	658,687
EE Products - Appliances	3,187
Business:	37,587

kWh Saved - Portfolio

Net:	174,446,869
Gross:	201,059,431

** Annualized Savings*

kW Saved - Portfolio

Net:	322,942
Gross:	399,008

Cost Per kWh - Portfolio

Planned:	\$0.26
Actual:	\$0.51

**Net Annualized Savings*

Progress Towards \$870M GTSA Goal

\$933.9 M Proposed

Progress Towards VCEA Savings Targets

As a percentage of 2019 sales

2024 Net MWh	1,106,256	1.62%
2024 Gross MWh	1,603,317	2.35%
2019 VA Jurisdictional Sales MWh	68,231,332	

** Includes 63,977 MWh for Opt Out Customers*

Annual Spend

Portfolio
\$89.2 M

Annual Spend

IAQ Programs
\$33.8 M

** Includes \$13.9M for HB2789 HVAC / Solar*

Total Customer Bill Savings

Residential:	\$9,349,216
Business:	\$9,594,898
Residential / Business:	\$2,311,589

DSM Related Emission

Reductions (Metric Tons CO₂)
Total 521,881

Energy Saved Since Inception

Portfolio	
Net MWh:	7,546,101
Gross MWh:	11,112,834

Executive summary

This EM&V report, prepared by DNV Energy Insights USA (DNV) on behalf of Virginia Electric and Power Company (Dominion Energy or the Company),¹ presents the key performance indicators of the Company's Phases I-XII demand-side management (DSM) programs in Virginia and North Carolina. It also reports DSM program impacts for 45 energy efficiency and demand response programs through December 31, 2024.

The 2024 EM&V report complies with multiple Virginia and North Carolina regulatory orders, rules, and other legislative requirements for evaluation, measurement, and verification (EM&V) reporting. Further details on these requirements appear in the Introduction section of the report.²

Net energy savings toward VCEA: **1,106 GWh³**



Spending toward Grid Transformation and Security Act (GTSA) **\$346.1M⁴**



Projected spending toward GTSA: **\$933.9M⁵**



Spending toward VCEA income and age qualifying 15% target: **\$45M or 13% of the \$346.1M⁶**



¹ Virginia Electric and Power Company may also include North Carolina operations depending on the context.

² Virginia State Corporation Commission (SCC) Case No. PUE-2009-0008, March 24, 2010, ordered annual EM&V report filings in Virginia.

³ As of year-end 2024; includes opt-out savings. VCEA stands for the Virginia Clean Economy Act or Chapter 1193 of the Code of Virginia, approved on April 11, 2020. <https://lis.virginia.gov/cgi-bin/legp604.exe?201+sum+HB1526>

⁴ As of year-end 2024; includes O&M, capital spending, common costs, and margin.

⁵ Based on programs filed with or approved by SCC as of year-end 2024; includes O&M, capital spending, common costs, and margin.

⁶ As of year-end 2024; includes O&M, capital spending, common costs, and margin. Per legislation, the 15% target does not include the House Bill 2789.

In 2024, Dominion Energy ran 45 energy efficiency and demand response programs serving the residential, income and age qualifying, and non-residential sectors.

In 2024, the Virginia programs achieved:

\$21M/year

in bill savings
for customers

\$613k/year

in O&M non-energy
impact (NEI) benefits
for customers

522k
metric tons CO₂
avoided/year

203M gal/year
of water savings

8,008 GWh
of net lifetime savings

DNV completed impact evaluations and in-depth studies of the following demand response programs for program year 2024:

- Residential Thermostat Reward
- Non-Residential Distributed Generation
- Residential Electric Vehicle Reward
- Residential Electric Vehicle Telematics Pilot



Key metrics

This report presents performance indicators for Dominion Energy's DSM programs in Virginia and North Carolina in compliance with legal requirements in both states.

The key metrics summarized are:



Expenditures

Program expenditures include operations and maintenance (O&M), capital spending, and common costs. O&M spending includes direct rebates, direct implementation, direct EM&V, and other indirect or administrative spending. The expenditures reported here do not include the Company's margins.



Participation

Participation is generally measured as the number of unique accounts that participate in a program. There are a few exceptions to this. Programs that offer rebates for individual equipment (e.g., Residential Efficient Products Marketplace, Residential EV Energy Efficiency and Demand Reduction, and Residential Water Savings) often count participation by units of installed measures. Other programs, such as Non-Residential Midstream Energy Efficiency Products, count participation by the number of work orders submitted to Dominion Energy for a rebate.



Savings

Energy efficiency program savings are reported as annualized energy savings, in kilowatt hours per year (kWh/year), energy saved to date (kWh or MWh), and expected lifetime energy saved (kWh or MWh). We also report coincident peak demand reductions in kilowatts (kW) delivered by the program. We assume that the summer peak is the maximum of the non-holiday weekday July hour ending 16 ET. We assume that the winter peak is the maximum of the non-holiday weekly January hour ending 8 ET. We report demand reductions for the demand response programs in kW and represent the estimated amount of dispatchable peak shaving potential delivered by the program under the Company's planning conditions.



VCEA indicators

This metric encompasses emissions reductions, customer bill impacts, and O&M NEIs attributable to the DSM programs.

2024 programs

This report covers programs that were open to enrollment or had participation in 2024. Figure 1 lists these programs.



Figure 1. Phases II-XI demand-side management programs reported in 2024

Residential	Non-Residential
<p>Energy Efficiency</p> <ul style="list-style-type: none"> • Efficient Products Marketplace • Efficient Products Marketplace Redesign • Home Energy Assessment • Home Energy Evaluation • EV Energy Efficiency and Demand Response • Kits • Manufactured Housing • Multifamily • New Construction • Thermostat Purchase and WeatherSmart • Smart Home • Virtual Energy Audit • Water Savings • Customer Engagement Extension <p>Demand Response</p> <ul style="list-style-type: none"> • EV Charger Rewards • EV Telematics Pilot • Thermostat Rewards • Water Savings Demand Response • Peak Time Rebate 	<p>Energy Efficiency</p> <ul style="list-style-type: none"> • Heating and Cooling Efficiency • Manufacturing • Window Film • Prescriptive Enhanced Bundle • Office • Building Optimization • Midstream Energy Efficiency Products • Multifamily • New Construction • Small Business Improvement Enhanced • Agricultural Energy Efficiency • Building Automation System • Engagement • Data Server Rooms • Healthcare Energy Solutions • Hotel and Lodging Energy Solutions • Lighting Systems & Controls • Small Business Behavioral • Custom <p>Demand Response</p> <ul style="list-style-type: none"> • Distributed Generation
Income & Age Qualifying	All Sectors
<p>Energy Efficiency</p> <ul style="list-style-type: none"> • Solar • Residential Energy Efficiency (Phase IX) • Residential Target Report • Residential Bundle • Non-Residential Bundle 	<p>Energy Efficiency</p> <ul style="list-style-type: none"> • Voltage Optimization

Tables 1-9 summarize the key required metrics for the Company's energy efficiency programs. The programs are organized into three categories: residential, income and age qualifying, and non-residential. Within each category, the programs are further classified by the DSM phase under which they were originally filed.

DNV produced the participation, energy savings, and non-energy impact (NEI) values presented in Tables 2, 3, and 6-9. The savings values combine:

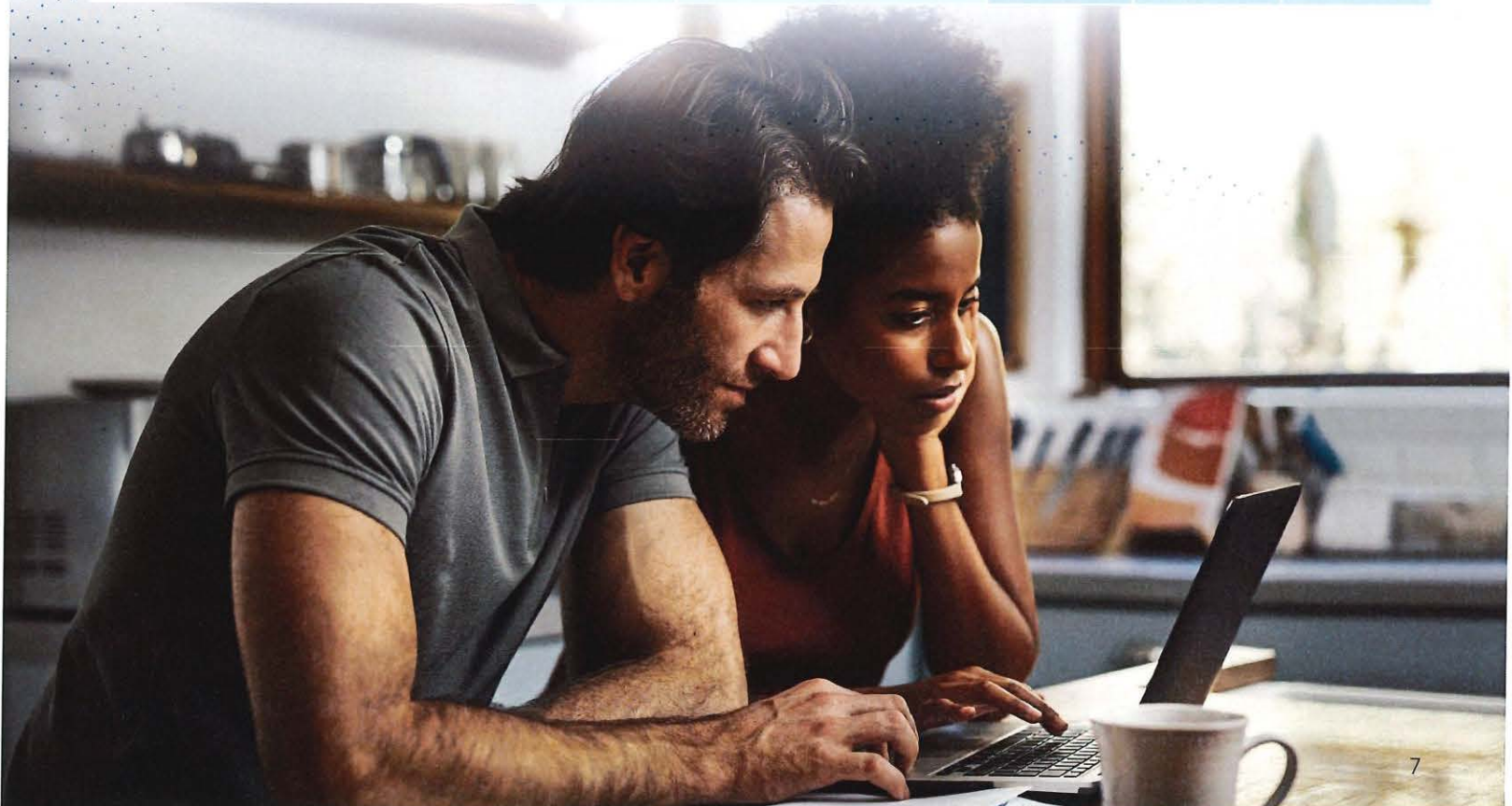
- DNV-evaluated savings
- Deemed savings calculated by DNV
- Custom savings calculated by implementers and vetted by DNV
- Implementer-claimed savings vetted by DNV

Note that the DNV calculated deemed savings are calculated using a combination of customer rebate data collected by the Company and program implementers, and other assumptions. DNV maintains the Dominion Energy Technical Reference Manual (Appendix F), which documents the deemed savings calculations for all measures installed in 2024. The deemed savings underwent a series of data quality checks prior to reporting.

Dominion Energy produced the avoided cost assumptions (Table 1), financial data (Tables 2 and 3), and the benefit-cost (B/C) ratios (Tables 4-6), reported here for completeness. The B/C ratios incorporate the results from this 2024 report.

Table 1. Virginia program avoided costs in Program Year 2024

Avoided Costs			Avoided T&D Demand Costs					
Average (\$/kWh)	Capacity (\$/kW-year)	Reserve Margin Forecast Pool Requirement (FPR) (%)	Transmission			Distribution		
			Avoided Transmission Cost (\$/kW-year)	Avoided Transmission Summer Split (%)	Avoided Transmission Winter Split (%)	Avoided Distribution Cost (\$/kW-year)	Avoided Transmission Summer Split (%)	Avoided Transmission Winter Split (%)
\$0.04	\$10.56	10%	\$33.83	0%	100%	\$19.20	50%	50%



Tables 2 and 3 on the following pages show the years that programs have been in operation, the count of participants, the number of measures installed, and the programs' financial metrics through program year 2024. The programs are organized by sector. Within each sector, they are further organized starting with those in the oldest phases at the top and alphabetically. A handful of programs do not follow this organizational structure, as they were grouped based on the Company's bundling.

Diversifying, expanding, and maturing

As the Company's DSM portfolio continues its shift away from incentivizing measures that were previously high-impact "low-hanging fruit" (i.e., residential lighting), the tracked savings reflect a portfolio that is diversifying and maturing. Many programs have been available to enrollment for four or more years. Of the over 40 programs available in 2024, roughly a quarter were launched in 2024.

In 2024, the Company expanded its behavioral program offerings. Prior to 2024, the Company offered only one general home energy report through the Phase VIII Residential Customer Engagement Program. In 2024, the Company launched three behavioral programs targeted at three distinct customer groups: general residential customers, income and age qualifying customers, and small businesses.

In 2024, the Company also launched the Voltage Optimization Program—an innovative offering that supports grid transformation while providing demand-side management benefits. The program is designed to reduce energy consumption by

supplying energy to customers at a lower voltage. Most of the Company's customers benefit from this program despite minimal outreach costs.

Customers are starting to take advantage of the array of programs offering custom measures and the number of custom projects is growing. Custom projects are those that use a project-specific approach to estimating project savings; their complexity varies. Custom projects were rebated through the Non-Residential Custom program as well as programs offering a mix of prescriptive/deemed and custom measures, such as the Non-Residential Manufacturing Program (now bundled into the Non-Residential Prescriptive Enhanced Bundle Program), Non-Residential New Construction Program, Non-Residential Building Optimization, Non-Residential Building Automation, Non-Residential Hotel and Lodging, and Non-Residential Healthcare.

Spending and participation under budget

Generally, across the three sectors, the pace of cumulative spending and participation were below budget through 2024, as shown in Tables 2 and 3 and 10 through 15. Overall, across the portfolio, spending reached 74% of the cumulative planned budget for these programs by the end of the year. Several programs targeted at specific sectors are under-spending compared to their cumulative budgets through 2024, as explored later in this executive summary. On a per-participant basis, the non-residential programs tended to have higher spending than the residential programs. Spending per IAQ participant was higher than spending per non-IAQ participant.



The residential programs reached more customers and installed more measures than the income and age qualifying and non-residential programs. The non-residential programs had the lowest number of customers, and their spending per participant was

considerably greater than the other sectors. This is reasonable given that non-residential customers tend to be much larger and have larger measures and projects than residential customers.

Table 2. Virginia summary program metrics - participation and financials of residential and income and age qualified programs (cumulative through December 31, 2024)^{7, 8, 9}

DSM phase	Program	Program operation years	Participation		Financial				
			Participants (in 1,000s)	No. measures (in 1,000s)	Expenditures (\$M)	Administrative expenditures (\$M)	Budget (\$M)	Spending as % of budget	Program cost per participant
VII	Efficient Products Marketplace	6	14,832	14,832	\$36	\$1.69	\$41	87%	\$2.40
XI	Efficient Products Marketplace Redesign	1	280	280	\$2.26	\$0.14	\$2.56	88%	\$8.07
VII	Home Energy Assessment	6	23	1,237	\$20	\$1.01	\$21	94%	\$856
VIII	Home Energy Evaluation	5	0.99	23	\$5.04	\$0.29	\$12	42%	\$5,077
VIII	EV Energy Efficiency and Demand Response	5	1.18	1.18	\$1.04	\$0.05	\$1.75	59%	\$882
	Kits	5	115	208	\$5.25	\$0.29	\$7.70	68%	\$46
	Manufactured Housing	5	0.78	1.62	\$2.82	\$0.16	\$6.52	43%	\$3,608
	Multifamily	5	4.68	15	\$3.14	\$0.17	\$8.44	37%	\$672
	New Construction	5	9.17	9.18	\$9.97	\$0.57	\$19	53%	\$1,088
	Thermostat Purchase and WeatherSmart	5	22	19	\$3.66	\$0.19	\$5.05	73%	\$166
	Smart Home	4	0.30	1.04	\$1.87	\$0.10	\$7.13	26%	\$6,156
IX	Virtual Energy Audit	4	30	1,099	\$5.08	\$0.31	\$11	48%	\$170
	Water Savings	4	0.91	0.91	\$0.99	\$0.06	\$3.59	28%	\$1,098
XI	Customer Engagement Extension	1	228	228	\$1.70	\$0.11	\$1.91	89%	\$7.47
Residential programs, total			436	17,955	\$99	\$5.14	\$148	66%	\$226
IX	IAQ Solar	4	0.54	0.54	\$19	\$1.19	\$31	60%	\$34,618
	Residential IAQ Energy Efficiency	4	10	55	\$14	\$0.80	\$15	95%	\$1,413
X	Residential IAQ Target Report	1	25	25	\$2.13	\$0.14	\$2.70	79%	\$84
XI	Residential IAQ Bundle	1	3.40	25	\$18	\$1.15	\$17	105%	\$5,383
	Non-Residential IAQ Bundle	1	0.004	0.02	\$0.23	\$0.01	\$0.61	38%	\$58,270
Income and Age Qualifying programs, total			39	105	\$53	\$3.30	\$67	80%	\$1,360

⁷ Participants represent enrollees from program start through December 31, 2024, in thousands of participants. Participation in the Residential Efficient Products Marketplace and Residential Efficient Products Marketplace Extension Programs is measured by incentivized unit, i.e., lamp, fixture, or appliance. Participation in these two Efficient Products Marketplace programs is excluded from the Residential program total because these programs use different units than the other residential programs and have far more participants than the other programs combined. Participation in the EV Energy Efficiency and Demand Response Program is measured in units of EV chargers. Participation in the Thermostat Purchase and WeatherSmart program is measured by thermostats purchased and households with controlled thermostats, respectively.

⁸ The number of measures represents the quantity of measures installed, serviced, or implemented at the units for which incentives are issued from program start through December 31, 2024 in thousands.

⁹ Expenditures are from program start through December 31, 2024 and include O&M, capital spending, and common costs. O&M spending components include direct rebate, direct implementation, direct EM&V, and other indirect or administrative spending. The expenditures reported here do not include the Company's margins.

Table 3. Virginia summary program metrics - participation and financials of non-residential programs (cumulative through December 31, 2024)¹⁰

DSM phase	Program	Program operation years	Participation		Financial				
			Participants (in 1,000s)	No. measures (in 1,000s)	Expenditures (\$M)	Administrative expenditures (\$M)	Budget (\$M)	Spending as % of budget	Program cost per participant
VII	Heating and Cooling Efficiency	6	0.16	2.52	\$9.08	\$0.53	\$8.80	103%	\$57,111
	Manufacturing	6	0.07	0.40	\$3.09	\$0.17	\$5.93	52%	\$46,067
	Window Film	6	0.09	129	\$1.51	\$0.08	\$2.15	70%	\$16,616
IX	Prescriptive Enhanced Bundle	4	1.51	51	\$21	\$1.25	\$14	150%	\$13,916
VII	Office	6	0.17	1.72	\$3.38	\$0.18	\$5.55	61%	\$19,995
IX	Building Optimization	4	0.11	2.46	\$3.20	\$0.20	\$3.14	102%	\$28,362
VIII	Midstream Energy Efficiency Products	5	0.33	3.77	\$2.94	\$0.16	\$7.53	39%	\$8,840
	Multifamily	5	0.07	4.56	\$1.06	\$0.06	\$1.88	56%	\$14,738
	New Construction	5	0.03	0.09	\$5.26	\$0.32	\$8.27	64%	\$169,621
	Small Business Improvement Enhanced	5	2.73	50	\$17	\$0.97	\$15	115%	\$6,147
IX	Agricultural Energy Efficiency	4	0.02	21	\$2.39	\$0.14	\$2.58	93%	\$140,636
	Building Automation System	4	0.004	0.004	\$1.23	\$0.07	\$2.73	45%	\$306,907
	Engagement	4	0	0	\$1.79	\$0.10	\$4.44	40%	N/A
X	Healthcare Energy Solutions	1	0.01	1.15	\$0.94	\$0.06	\$9.77	10%	\$94,254
	Hotel and Lodging Energy Solutions	1	0.06	8.54	\$1.31	\$0.08	\$8.90	15%	\$23,771
	Data Server Rooms	2	0.002	0.02	\$0.80	\$0.05	\$1.20	66%	\$399,047
	Lighting Systems & Controls	2	0.83	158	\$8.81	\$0.57	\$19	45%	\$10,643
	Small Business Behavioral	1	35	0	\$1.89	\$0.12	\$2.55	74%	\$54
XI	Custom	1	0.01	0.01	\$0.80	\$0.05	\$3.86	21%	\$113,576
Non-Residential programs, total			41	435	\$87	\$5.17	\$127	69%	\$2,108
X	Voltage Optimization	1	0.03	0.03	\$5.15	\$0.07	\$6.76	76%	\$165,982
All sectors program, total			0.03	0.03	\$5.15	\$0.07	\$6.76	76%	\$165,982
All program, total			517	18,495	\$244	\$14	\$349	70%	\$473

¹⁰ Participants represent enrollees from program start through December 31, 2024, in thousands of participants. Participation in the Midstream Energy Efficiency Products program is measured by the number of invoices submitted to the Company for rebate. Participation in the Voltage Optimization Program is the number of substation transformer load tap changers and voltage regulators (collectively, "devices"). Participation in these two Efficient Products Marketplace programs is excluded from the All program total because these programs use different units than the other residential programs and have far more participants than the other programs combined.



Tables 4 and 5 show the forward-looking B/C ratios for the 2024 programs. "Forward-looking" indicates that these benefit cost scores were calculated using historic incremental net per-participant savings by the forecasted future participation. Dominion Energy calculated these ratios using savings and participation data through 2024 from DNV's, the program implementation vendors', or the Company's forecasted participation for future years, and the Company's financial data.

Table 4. Virginia summary program metrics - B/C ratios of residential and income and age qualified programs (cumulative through December 31, 2024)¹¹

DSM phase	Program	Benefit cost ratios				Filing year
		Participant	Utility	TRC	RIM	
Residential programs (energy efficiency)						
VII	Efficient Products Marketplace	++	15.83	18.74	0.27	2023
XI	Efficient Products Marketplace Redesign	6.09	3.55	1.62	0.22	2025
VII	Home Energy Assessment	25.06	8.46	5.94	0.35	2023
VIII	Home Energy Evaluation	4.51	2.31	1.37	0.36	2025
	EV Energy Efficiency and Demand Response Kits	0.75	0.29	0.14	0.14	2025
		++	2.25	10.11	0.26	2025
	Manufactured Housing	1.15	0.19	0.17	0.15	2025
	Multifamily	1.95	1.64	0.82	0.43	2025
	New Construction	5.62	4.42	2.61	0.46	2024
	Thermostat Purchase and WeatherSmart	6.00	2.28	1.59	0.39	2024
	IX	Smart Home	1.43	0.50	0.28	0.19
Virtual Energy Audit		71.71	8.55	15.56	0.26	2025
Water Savings		4.76	1.82	1.47	0.32	2025
XI	Customer Engagement Extension	5.48	0.67	0.50	0.23	2025
Residential programs (demand response)						
VIII	EV Charger Rewards	20.46	0.21	0.31	0.20	2025
XI	EV Telematics Pilot	19.76	0.19	0.22	0.19	2025
VIII	Smart Thermostat Rewards	++	3.42	5.98	3.24	2025
IX	Water Savings Demand Response	0.32	0.59	0.31	0.59	2025
XI	Peak Time Rebate	14.08	1.49	2.76	1.49	2025
Income and Age Qualifying programs (energy efficiency)						
IX	IAQ Solar	++	0.38	0.38	0.22	2024
	Residential IAQ Energy Efficiency	++	0.73	0.73	0.27	2023
X	Residential IAQ Target Report	66.56	0.00	0.00	0.00	2025
XI	Residential IAQ Bundle	++	0.23	0.23	0.18	2025
	Non-Residential IAQ Bundle	++	3.48	3.48	1.01	2025

¹¹ B/C ratios are forward-looking and incorporate 2024 EM&V results. The "filing year" column indicates the year these scores were last filed in either in a past DSM Update case or this current report as indicated by a value of "2025" in the "filing year" column. "++" serves as a substitute for the symbol ∞ (infinity) in contexts where the standard notation is unavailable or unsupported. Programs that closed to enrollment in 2024 include Efficient Products Marketplace, Home Energy Assessment, Residential Smart Thermostat and WeatherSmart, Residential IAQ Solar, and the Phase IX Residential IAQ Energy Efficiency Program; their B/C ratios were not updated. Additionally, the Water Savings Demand Response program had no evaluated impacts through year-end 2024 and does not have an updated B/C ratio. Appendices K and L provide a complete list of each program's B/C ratios since the initial program filing.

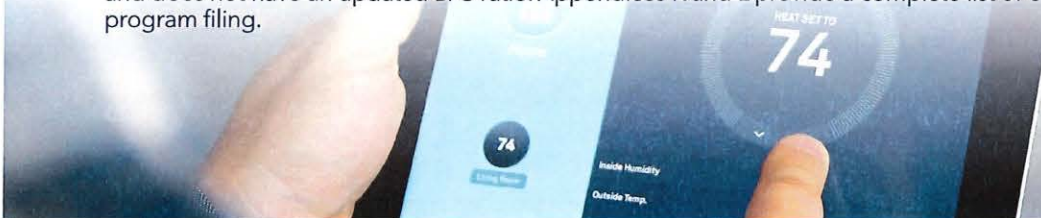


Table 5. Virginia summary program metrics - B/C ratios of non-residential programs (cumulative through December 31, 2024)¹²

DSM phase	Program	Benefit cost ratios				Filing year
		Participant	Utility	TRC	RIM	
Non-Residential programs (energy efficiency)						
VII	Heating and Cooling Efficiency	18.92	39.23	18.27	1.14	2023
	Manufacturing	20.59	6.16	5.76	0.48	2023
	Window Film	2.97	0.80	0.59	0.32	2023
IX	Prescriptive Enhanced Bundle	2.94	2.55	2.39	0.98	2025
VII	Office	10.55	1.46	1.56	0.30	2023
IX	Building Optimization	13.40	7.05	6.14	0.77	2025
VIII	Midstream Energy Efficiency Products	2.84	7.09	2.86	1.01	2025
	Multifamily	28.07	16.11	12.17	0.58	2025
	New Construction	10.72	4.77	4.66	0.55	2024
	Small Business Improvement Enhanced	6.28	4.17	3.33	0.62	2025
IX	Agricultural Energy Efficiency	++	57.31	43.46	0.71	2025
	Building Automation System	3.19	0.80	0.64	0.32	2025
	Engagement	++	1.90	3.07	0.85	2020
X	Healthcare Energy Solutions	13.22	2.49	4.67	0.71	2025
	Hotel and Lodging Energy Solutions	20.18	2.55	5.12	0.71	2025
	Data Server Rooms	0.97	0.04	0.04	0.04	2025
	Lighting Systems & Controls	2.98	5.36	2.13	0.69	2025
	Small Business Behavioral	9.03	0.43	0.42	0.26	2025
XI	Custom	1.31	0.23	0.21	0.16	2025
Non-Residential programs (demand response)						
II	Distributed Generation	++	2.73	7.71	2.49	2025
All sectors program (energy efficiency)						
X	Voltage Optimization	++	2.16	2.14	0.48	2025

¹² B/C ratios are forward-looking and incorporate the results from this EM&V report. Programs that closed to enrollment in 2024 include Heating and Cooling Efficiency, Office, Manufacturing, and Window Film. B/C ratios for the Non-Residential Customer Engagement program were not updated because there was no enrollment through 2024. Appendices K and L provide a complete list of each program's B/C ratios since the initial program filing.

"++" serves as a substitute for the symbol ∞ (infinity) in contexts where the standard notation is unavailable or unsupported.



Tables 6 and 7 show program gross and net savings in annualized energy savings, cumulative savings to date, lifetime savings based on participation through year-end 2024, and summer peak demand reductions. The residential sector produced the majority of energy savings through 2024, particularly cumulative energy savings. While the savings from the income and age qualifying programs were the lowest of the three sectors, those programs serve

a hard-to-reach segment of the population. The program is designed to not only produce energy savings, but to also address various health and safety measures requiring attention before energy efficiency measures can be implemented (e.g., repairing walls or doors).

With the 2024 launch of the Voltage Optimization Program, customers in all sectors benefited from the grid transformation upgrade.

Table 6. Virginia summary program metrics – energy impacts of residential and income and age qualified programs (cumulative through December 31, 2024)

DSM phase	Program	Energy impacts							
		Gross				Net			
		Total annualized gross energy savings (MWh/yr)	Cumulative gross energy savings (MWh)	Cumulative lifetime gross energy savings (MWh)	Total summer gross peak demand reductions (MW)	Total annualized net energy savings (MWh/yr)	Cumulative net energy savings (MWh)	Lifetime net energy savings (MWh)	Total summer net peak demand reductions (MW)
VII	Efficient Products Marketplace	446,699	1,631,125	7,411,295	41	253,912	965,457	4,213,033	23
XI	Efficient Products Marketplace Redesign	19,214	6,974	259,457	1.47	12,105	4,393	163,458	0.93
VII	Home Energy Assessment	45,603	142,258	570,167	3.44	13,506	39,404	168,865	1.06
	Home Energy Evaluation	1,550	1,585	23,489	0	1,395	1,427	21,140	0.25
	EV Energy Efficiency and Demand Response Kits	152	205	1,516	0	121	164	1,213	0
		13,447	26,136	76,576	1.19	8,068	15,681	45,946	0.71
VIII	Manufactured Housing	171	197	1,002	0.06	154	178	901	0.06
	Multifamily	1,241	1,556	13,309	0.32	1,117	1,401	11,978	0.29
	New Construction	21,884	34,233	543,625	9.33	19,039	29,782	472,953	8.12
	Thermostat Purchase and WeatherSmart	5,518	10,877	35,013	1.09	4,574	8,878	28,186	1.03
	Smart Home	123	123	1,397	0.004	104	104	1,187	0.004
IX	Virtual Energy Audit	23,474	21,364	229,545	2.25	14,084	12,819	137,727	1.35
	Water Savings	1,266	1,337	14,418	0.21	1,139	1,204	12,976	0.19
XI	Customer Engagement Extension	17,933	11,796	18,185	10	17,933	11,796	18,185	10
Residential programs, total		598,275	1,889,766	9,198,993	71	347,252	1,092,687	5,297,749	47
IX	IAQ Solar	3,178	1,934	77,813	1.14	2,542	1,547	62,250	0.92
	Residential IAQ Energy Efficiency	7,191	12,827	155,199	1.83	5,753	10,262	124,159	1.46
X	Residential IAQ Target Report	0	0	0	0	0	0	0	0
XI	Residential IAQ Bundle	3,698	1,527	74,700	0.84	3,661	1,511	73,953	0.83
	Non-Residential IAQ Bundle	19	5.82	431	0.01	19	5.77	427	0.01
Income and Age Qualifying programs, total		14,087	16,294	308,143	3.82	11,976	13,326	260,790	3.21

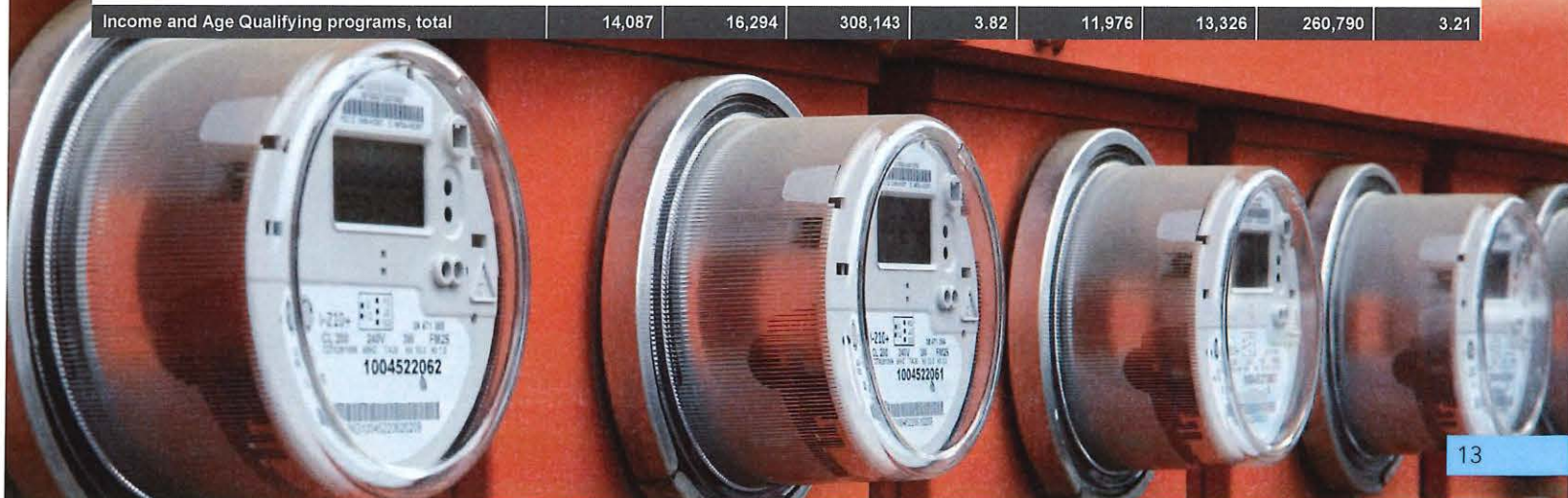


Table 7. Virginia summary program metrics – energy impacts of non-residential programs (cumulative through December 31, 2024)

DSM phase	Program	Energy impacts							
		Gross				Net			
		Total annualized gross energy savings (MWh/yr)	Cumulative gross energy savings (MWh)	Cumulative lifetime gross energy savings (MWh)	Total summer gross peak demand reductions (MW)	Total annualized net energy savings (MWh/yr)	Cumulative net energy savings (MWh)	Lifetime net energy savings (MWh)	Total summer net peak demand reductions (MW)
VII	Heating and Cooling Efficiency	45,143	71,317	677,219	13.14	31,600	49,922	474,054	9.20
	Manufacturing	13,692	24,089	168,902	1.67	12,323	21,680	152,012	1.50
	Window Film	594	1,967	5,937	0.08	475	1,574	4,749	0.06
IX	Prescriptive Enhanced Bundle	30,453	46,987	196,571	22	27,408	42,288	176,913	20
VII	Office	12,743	24,485	89,226	0.09	11,469	22,037	80,303	0.08
IX	Building Optimization	28,521	29,155	151,206	1.05	25,669	26,240	136,085	0.94
VIII	Midstream Energy Efficiency Products	5,750	7,917	100,597	3.05	5,175	7,125	90,537	2.74
	Multifamily	806	878	6,946	0.05	726	791	6,252	0.04
	New Construction	37,018	45,828	519,016	4.55	33,317	41,245	467,115	4.09
	Small Business Improvement Enhanced	18,490	31,832	187,657	4.23	15,084	26,817	153,049	3.38
IX	Agricultural Energy Efficiency	6,481	11,812	70,873	0.96	6,287	11,458	68,747	0.93
	Building Automation System	414	306	2,073	0.05	373	276	1,865	0.04
	Engagement	0	0	0	0	0	0	0	0
X	Healthcare Energy Solutions	114	48	977	0.03	97	41	830	0.02
	Hotel and Lodging Energy Solutions	2,232	751	19,216	0	1,897	639	16,334	0
	Data Server Rooms	5.01	0.25	75	0	4.51	0.23	68	0
	Lighting Systems & Controls	62,712	50,483	637,766	11	56,441	45,435	573,989	10
	Small Business Behavioral	7,256	617	7,279	4	7,256	617	7,279	4
XI	Custom	231	14	2,348	0.01	194	12	1,973	0.01
Non-Residential programs, total		272,655	348,488	2,843,884	66	235,793	298,195	2,412,155	57
X	Voltage Optimization	26,075	26,075	26,075	8.19	26,075	26,075	26,075	8.19
All sectors program, total		26,075	26,075	26,075	8.19	26,075	26,075	26,075	8.19
All programs, total		911,091	2,280,623	12,377,095	149	621,096	1,430,283	7,996,768	116



Tables 8 and 9 show the annualized NEIs in terms of customer bill savings; avoided carbon emissions; operations and maintenance (O&M) NEIs for HVAC, lighting, and motor measures; and water savings. With the removal of general service lighting measures from the portfolio, the O&M NEIs have decreased substantially from past years.

Table 8. Virginia summary program metrics - other impacts of residential and income and age qualified programs (cumulative through December 31, 2024)

DSM phase	Program	Bill savings (\$M/yr)	Carbon emissions avoided (metric tons CO ₂ /yr)	O&M NEIs (\$M/yr)	Water savings (Mgal/yr)
VII	Efficient Products Marketplace	\$0.06	248,943	N/A	47
XI	Efficient Products Marketplace Redesign	\$2.48	10,645	N/A	31
VII	Home Energy Assessment	\$0.04	25,542	\$0.03	3.22
	Home Energy Evaluation	\$0.14	864	\$0.06	0.20
	EV Energy Efficiency and Demand Response	\$0.01	84	N/A	N/A
	Kits	\$0.37	7,493	\$0.02	4.50
VIII	Manufactured Housing	\$0.01	96	-\$0.001	0.07
	Multifamily	\$0.08	692	N/A	N/A
	New Construction	\$0.98	12,310	N/A	N/A
	Thermostat Purchase and WeatherSmart	\$0.09	3,110	N/A	N/A
	Smart Home	\$0.02	68	N/A	N/A
IX	Virtual Energy Audit	\$1.96	13,078	\$1.10	107
	Water Savings	\$0.08	711	N/A	N/A
XI	Customer Engagement Extension	\$2.25	9,955	N/A	N/A
Residential programs, total		\$8.58	333,592	\$1.21	193
IX	IAQ Solar	\$0.30	1,808	N/A	N/A
	Residential IAQ Energy Efficiency	\$0.001	4,005	\$0.0001	4.07
X	Residential IAQ Target Report	\$0	0	N/A	N/A
XI	Residential IAQ Bundle	\$0.48	2,056	\$0.02	0.99
	Non-Residential IAQ Bundle	\$0.002	11	\$0.00	N/A
Income and Age Qualifying programs, total		\$0.78	7,880	\$0.02	5.06



Table 9. Virginia summary program metrics - other impacts of non-residential programs (cumulative through December 31, 2024)

DSM phase	Program	Bill savings (\$M/yr)	Carbon emissions avoided (metric tons CO ₂ /yr)	O&M NEIs (\$M/yr)	Water savings (Mgal/yr)
VII	Heating and Cooling Efficiency	\$0.56	25,375	-\$0.22	N/A
	Manufacturing	\$0.09	7,598	N/A	N/A
	Window Film	\$0.001	335	N/A	N/A
IX	Prescriptive Enhanced Bundle	\$0.74	17,246	-\$0.003	0.05
VII	Office	\$0.004	6,988	N/A	N/A
IX	Building Optimization	\$0.96	28,194	N/A	N/A
VIII	Midstream Energy Efficiency Products	N/A	3,242	-\$0.47	4.75
	Multifamily	\$0.05	451	-\$0.01	N/A
	New Construction	\$0.86	20,394	N/A	N/A
	Small Business Improvement Enhanced	\$0.69	10,408	\$0.05	N/A
IX	Agricultural Energy Efficiency	\$0.08	3,616	\$0.01	N/A
	Building Automation System	\$0.02	229	N/A	N/A
	Engagement	N/A	N/A	N/A	N/A
X	Healthcare Energy Solutions	\$0.01	64	-\$0.01	N/A
	Hotel and Lodging Energy Solutions	\$0.22	648	\$0.001	N/A
	Data Server Rooms	\$0.0003	2.78	N/A	N/A
	Lighting Systems & Controls	\$4.50	35,176	\$0.03	N/A
	Small Business Behavioral	\$0.79	3,967	N/A	N/A
XI	Custom	\$0.02	126	N/A	N/A
Non-Residential programs, total		\$10	164,059	-\$0.62	4.80
X	Voltage Optimization	\$2.31	16,350	N/A	N/A
All sectors program, total		\$2.31	16,350	N/A	N/A
All programs, total		\$21	521,881	\$0.61	203

Summary of energy efficiency programs

This section summarizes the Company's energy efficiency program activity through 2024 in Virginia and North Carolina.

Continuing to expand the portfolio's offerings and reach

The Company's tracked savings reflect a diversifying and maturing DSM portfolio. In 2024, the portfolio continued its shift away from incentivizing residential lighting. Numerous programs have been available to enrollment for four or more years, and many are either extensions or redesigns of programs that have been in the portfolio since its early phases in 2012. Of the over 40 programs available to customer enrollment in 2024, roughly a quarter were newly launched in 2024.

High-saving programs in 2024 - Virginia

Figure 2 shows the percentage of new incremental net annualized energy savings in 2024 from energy efficiency programs in Virginia. Of the three sectors,

the non-residential programs continued to contribute the largest proportion of incremental new savings.

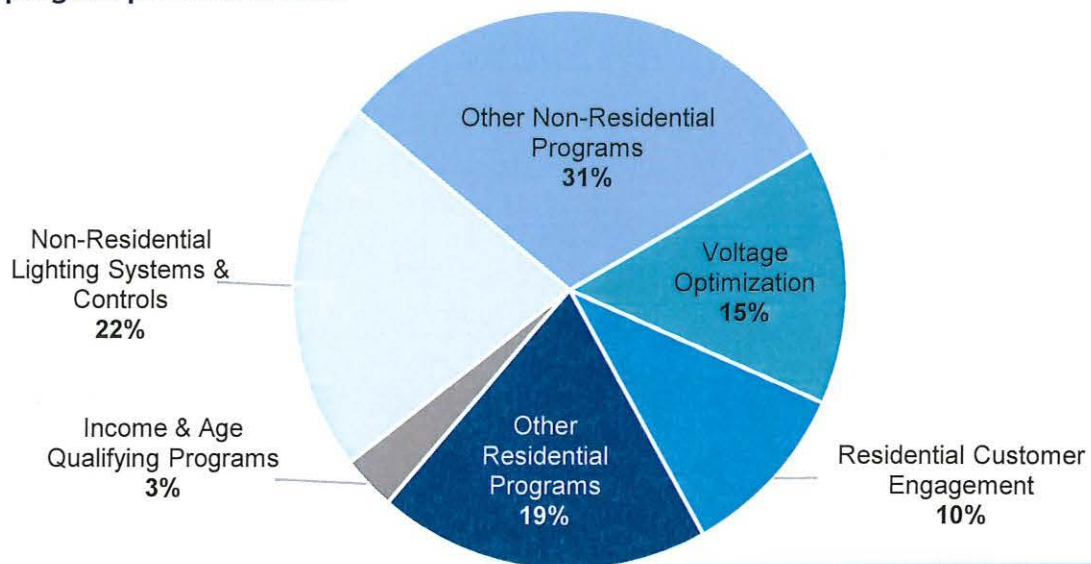
In Virginia, three programs stand out for their high savings contributions to the portfolio: Non-Residential Lighting Systems & Controls (22% of new incremental annualized net savings), Voltage Optimization (15%), and Residential Customer Engagement (10%).

The Lighting Systems & Controls program has consistently achieved high energy savings in various forms and phases since its inception as a DSM Phase I program in 2010.

The Phase XI Residential Customer Engagement program is an extension of the Phase VIII program, with the same participants and program concept but a new program implementation vendor. This program replaced Non-Residential New Construction as the top savings contributor in 2023.

Of the three top-performing programs, Voltage Optimization is the only one with a truly new program concept. A hybrid of grid transformation offering and

Figure 2. Percentage of new incremental net annualized energy savings across the Virginia energy efficiency program portfolio in 2024



DSM program, it requires no customer enrollment and expects no functionality loss for customers, as it controls voltage for the entire customer base. Fully deploying this program on the Company's grid system will require multiple years. It is expected to be a consistently high-saving program throughout its life, with impacts that grow over time.

The 2024 net savings from these programs are based on a mix of deemed and evaluated savings. The Lighting Systems & Controls program net savings are calculated using evaluated realization rates and net-to-gross ratios from a recent evaluation study.¹³ Both the Residential Customer Engagement and Voltage Optimization programs will require more implementation time before sufficient data is available for impact evaluations.

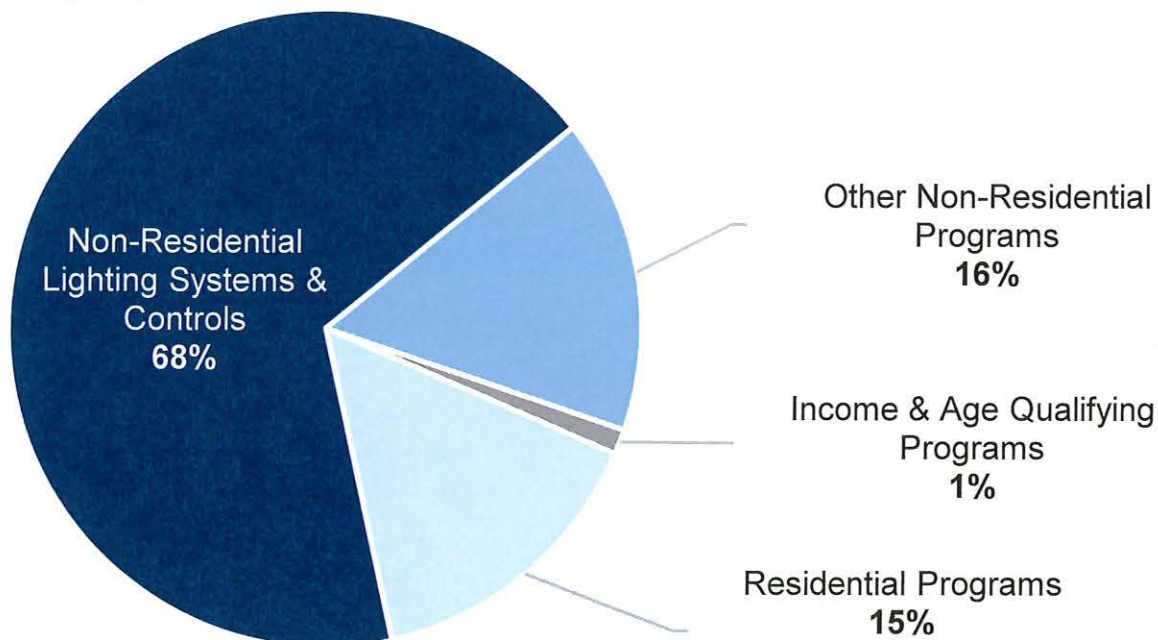
High-saving programs in 2024 - North Carolina

Figure 3 shows the percentage of new incremental net annualized energy savings in 2024 in North Carolina. The distribution of net annualized energy savings this year is very different from Virginia.

Consistent with past years and 2024 trends in Virginia, the Non-Residential Lighting Systems & Controls Program is a very large savings contributor. This year, it is the largest by far, with 68% of new incremental net savings.

This substantial achievement for the Lighting Systems & Controls program also highlights a possible opportunity for the Company to diversify its focus in North Carolina and achieve savings from a broader mix of programs.

Figure 3. Percentage of new incremental net annualized energy savings across the North Carolina energy efficiency program portfolio in 2024



¹³ The Non-Residential Lighting Systems & Controls program was evaluated for gross and net impacts, baseline, and measure persistence. The studies were published under SCC Case No. PUR-2021-00247.



Notable portfolio themes

The following sections explore portfolio-level themes that have emerged from the 2024 results, followed by supporting data in Tables 10-15.

Programs exceeding energy savings plans

Many programs exceeded their new incremental net energy savings plans through 2024:

- Phase XI, Residential Energy Efficient Marketplace, a redesign of the Phase VII program
- Phase XI, Residential and Non-Residential Income and Age Qualifying Bundle programs
- Phase VIII, Non-Residential New Construction program
- Phase IX, Non-Residential Building Optimization program
- Phase IX, Non-Residential Agricultural Energy Efficiency program

The Residential Energy Efficiency Marketplace Program is a redesign of the previous Phase VII program that offered rebates to a mix of retailers, distributors, and customers. Residential lighting was the Phase VII program's dominant measure. The new program features a similar design but does not offer general-service lighting measures, focusing instead on offering large and small appliances. The measure currently driving participation and savings is canned spray foam.

The Income and Age Qualifying programs are streamlined versions of prior programs, and continue to include health and safety measures in addition to energy efficiency measures.

In some cases, these programs did not achieve the planned participation due to a variety of factors. For instance, the Non-Residential New Construction and Non-Residential Agricultural Energy Efficiency programs enrolled some larger-than-expected customers, which pushed the programs over their planned savings targets.

Customer awareness campaign yields results

2024 was the second full year of the Company's broader customer awareness campaign, and aggressively marketed programs experienced strong participation growth. These included the Residential Virtual Audit program, whose savings and participation were both roughly 250% of 2023 values, and the Residential Peak Time Rebate demand response program, which enrolled more than 20,000 participants in its first year. The Residential Thermostat Rewards Program took roughly two years to garner this many participants.



Programs with higher participation than energy savings

Other programs experienced the opposite effect, with participation-toward-planned that was greater than incremental net energy savings. Three examples are the Residential Kits Program, the Phase VIII Non-Residential Small Business Improvement Enhanced Program, and the Phase IX Non-Residential Prescriptive Bundle. In the case of the Kits program, customers with new accounts receive a welcome smart strip and are encouraged to participate in a follow-up survey to receive a kit of additional energy efficiency measures in the mail. Engagement in the follow-up survey was lower than expected, and the Company is working to improve its implementation approach.

The Company conducted two in-depth process evaluations, including one of the Small Business Improvement Program. The Company also redesigned this program and filed the new Small Business Improvement Program for approval by the SCC in the 2024 DSM Upgrade case. The redesigned program will be part of the Phase XIII programs.

Plans for improving the Non-Residential Prescriptive Bundle Program are discussed in the next section about bundled programs.

First year of measure bundling

In late 2023, Dominion Energy closed the Phase VII programs at the end of their fourth full year. Many programs wrapped up projects that had been installed at the end of 2023 and were approved for rebate in 2024; these projects are reported in the main body of this 2024 report.

Per the Long Term Plan's recommendations to bundle programs, which the Commission approved in the 2022 DSM Update filing,¹⁴ 2024 was the first year the following bundles were offered:

- **Home Energy Evaluation Program:** bundling the Phase VII Residential Home Energy Assessment with the Phase VIII Residential Retrofit Program
- **Non-Residential Prescriptive Enhanced Bundle:** bundling these non-residential Phase VII programs with the Phase VIII Non-Residential Prescriptive Enhanced Program:
 - Manufacturing
 - Cooling and Heating Efficiency
 - Window Film
- **Residential and Non-Residential Income and Age Qualifying Home Improvement Program**

¹⁴ SCC Case No. PUR-2021-00247



This bundle-and-save approach allows the Company to continue offering measures to customers while reducing the costs of operating stand-alone programs.

The Residential and Non-Residential Income and Age Qualifying Home Improvement programs saw positive results, already exceeding their plans in 2024. It is still too early to determine the effectiveness of bundling the Home Evaluation and Prescriptive programs. The Home Energy Evaluation Program is the new name of the previous Retrofit Program, which was approved roughly five years ago and is drawing down its available budget. The Company will need to refile for the program to be either extended or redesigned. The Company is exploring these options using all available information, including the results of an in-depth process evaluation of the combined Residential Home Energy Assessment and Residential Retrofit programs.

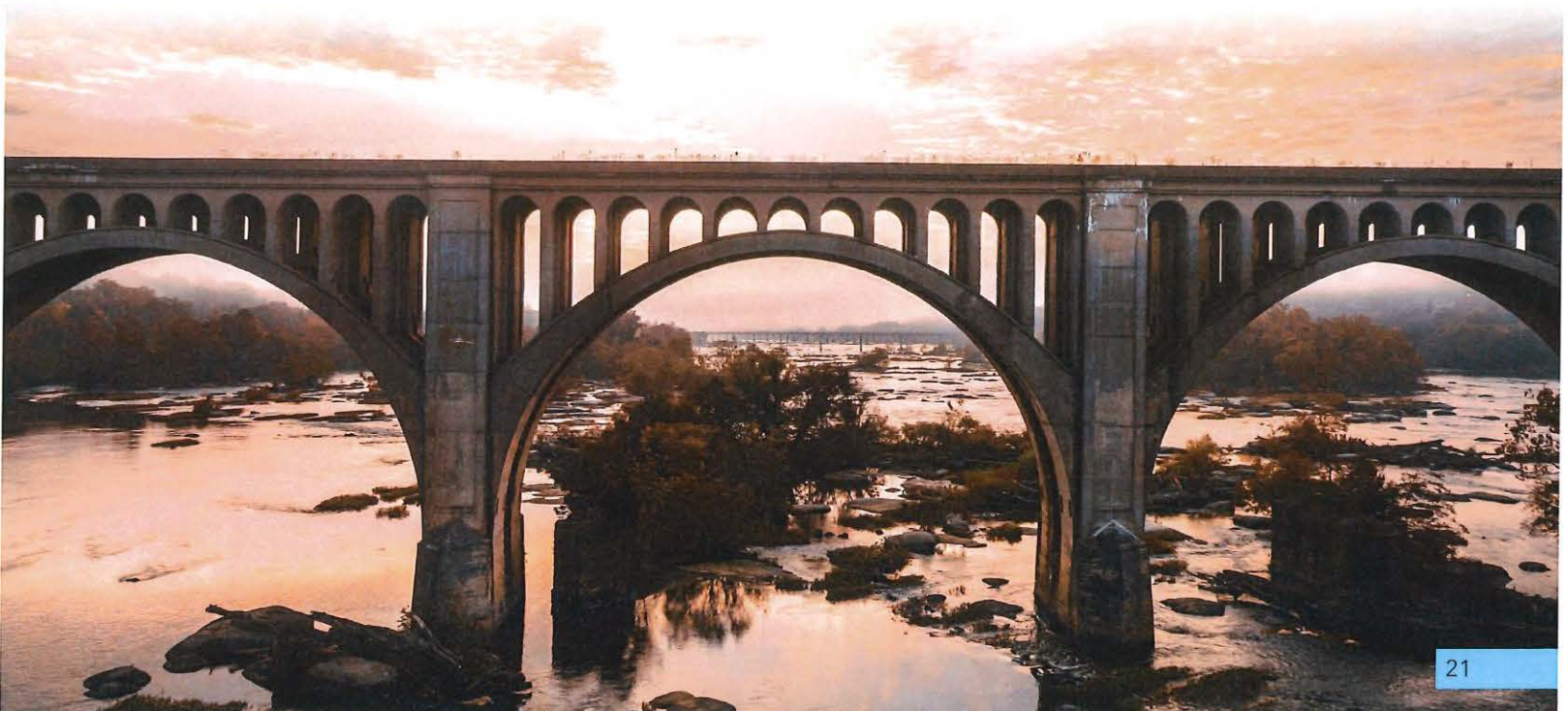
The Phase IX Non-Residential Prescriptive Bundle has been redesigned. The newly designed program was filed for SCC approval as a Phase XIII program in the 2024 DSM Update case.¹⁵

Mixed results from programs targeting specific segments

Many programs have been operating for several years, and while they continue to see growth from year to year, they are well behind their program plans for participation and energy savings. Several of these programs focus on targeted segments or subsegments of the market, including the Residential Manufactured Housing, Residential Electric Vehicle Energy Efficiency, Residential Water Savings, Residential Multifamily, Smart Homes, Water Savings, Non-Residential Midstream Energy Efficiency Products, Building Automation System, and Non-Residential Engagement programs. Each of these programs has its unique challenges and barriers to growth, and the Company is continuing to make improvements to achieve greater participation and energy savings.

In past years, low participation in the Residential Manufactured Housing Program and Residential Retrofit (now marketed as the Home Energy Evaluation Program) was partially attributed to the lack of a strong network of Building Performance Institute (BPI)-certified professionals. The program

¹⁵ SCC Case No. PUR-2024-00222



implementation vendor has endeavored to address this lack by offering appropriate contractor training. In 2024, the implementation vendor identified property managers as a trusted source of information in manufactured housing communities, who could encourage participation in the Manufactured Housing Program. Upon leveraging the property manager role to better reach this customer segment, the program roughly doubled its participation and savings from 2023 to 2024.

Other programs had challenges unique to their program design. The Electric Vehicle Energy Efficiency program has a limited offering of eligible chargers. Likewise, the Water Savings program is limited to pool pumps and heat pump water heaters. There is a seasonality aspect to pool pump adoption, with greater participation during the warmer months.

The Non-Residential Midstream Energy Efficiency program, focused on commercial equipment distributors, has a limited number of potential participants. Additionally, because this program offers large HVAC equipment that may require local distributors to get corporate-level approval to participate, administrative delays can impede program participation.

Both the Building Automation and Non-Residential Customer Engagement programs faced similar challenges with long lead times to engage customers and convert them into program participants receiving rebates. Anecdotally, the Company has seen that projects involving building automation systems tend to be large projects that can take multiple years to complete, which creates a participation barrier. After two years of lead time, 2024 was the first year that Building Automation Program projects were completed and customers received rebates. Nevertheless, the Company expects participation to grow. The Non-Residential Customer Engagement program also requires participants to be engaged in the program for one year before fully being considered a program participant. While the Engagement program had no participants through 2024, several are currently enrolled and are expected to materialize in 2025.

Annualized energy savings, participation, and program spending

Table 10 through Table 12 on the following pages show net annualized energy savings, participation, and program spending from the inception of the programs in Virginia and North Carolina.



Virginia

In aggregate, the portfolio spent a little less than three-fourths of its budget through 2024 in Virginia and about half of its budget in North Carolina. With the inclusion of the Phase VII Residential Efficient Products Marketplace Program, the portfolio exceeded its planned participation. The Residential Efficient Products Marketplace Program participants were defined by units of measures installed, e.g., lamps and appliances. Excluding the measures from the Phase VII Efficient Products Marketplace Program, the portfolio achieved about half of planned participation in Virginia and 14% of planned participation in North Carolina.¹⁶

This program spending resulted in the Virginia program achieving almost half of its planned net energy savings for 2024 and the North Carolina program achieving roughly a quarter of planned net energy savings.

In Virginia, spending across the three sectors—residential, Income and Age Qualified (IAQ), and non-residential—ranged between 66% and 80% of planned.

The residential sector led in the percentage of planned participation, at 108% of planned with the Phase VII Residential Efficient Products Marketplace Program and 71% without it. The IAQ sector reached 71% of its planned participation. The non-residential sector reached 24% of its planned participation, and the Voltage Optimization Program, which serves all sectors, reached 13% of its planned participation due to a delay in program launch. The program experienced more than a year of delays before its launch in 2024, due to necessary development and the testing of communication protocols between the software platform and substations, and for software integration with AMI.

In terms of net energy savings achieved as a percentage of the plan across the three sectors, residential achieved 51% of planned, IAQ achieved 102%, non-residential achieved 49%, and Voltage Optimization achieved 20% of planned. Comparing the participation-level achievements with the energy savings achievements reveals that residential participants are producing less realized net savings than planned, and the IAQ and non-residential participants are producing more savings per participant than planned.

¹⁶ When reviewing the North Carolina results, please note that the overall system-level program budget is allocated relatively between Virginia and North Carolina, with about 94% of costs allocated to Virginia and the remaining 6% allocated to North Carolina.



North Carolina

In North Carolina, the IAQ sector led in net energy savings compared to plans. The IAQ programs achieved 74% of planned net energy savings while participation was much lower than planned (3%). This indicates that the IAQ program realized savings per participant are greater than planned. The non-residential sector shows a similar trend, with participation at roughly 5% of planned, and net energy savings at 36% of planned. The residential sector shows that participation and net incremental energy savings were roughly at similar levels, 22% of planned participation and 20% of net energy savings.

North Carolina's spending as a percentage of plans was less than Virginia's. Spending across the three sectors ranged between 46% and 58% of planned spending.

More granular details of each program's performance by month appear in Appendix B, Appendix O, and Appendix P. Cumulative and lifetime participation, net energy savings, and net peak demand reduction indicators are provided in Appendix Q. The reported indicators support the Company's integrated resource planning process, lost revenue recovery calculations (if pursued), program incentives, and other calculations that rely on these metrics.

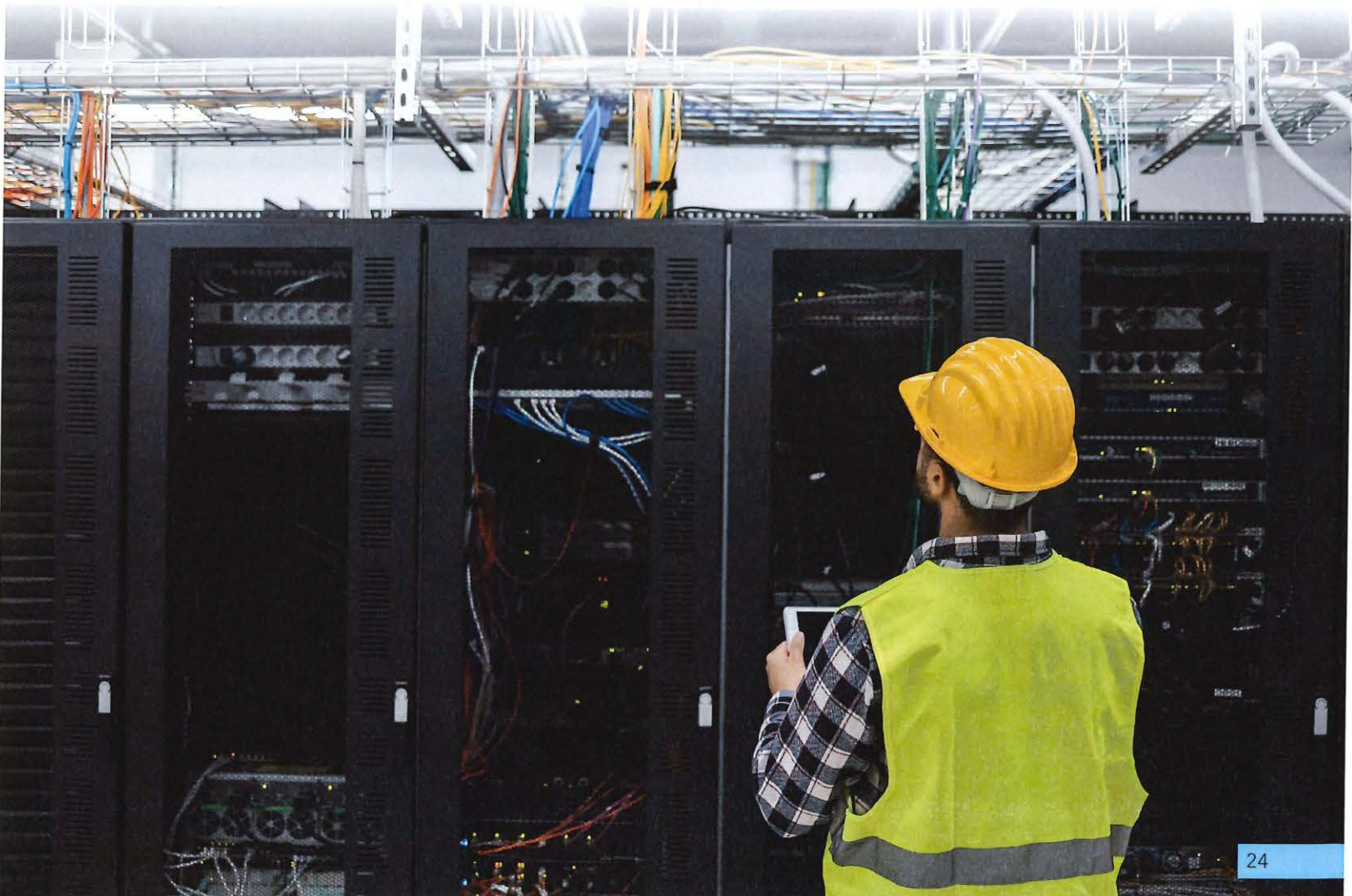


Table 10. Annualized program progress for residential Phases VII and VIII energy efficiency programs (cumulative from program start through December 31, 2024) in Virginia and North Carolina^{17, 18}

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase VII							
Efficient Products Marketplace	Actual	\$36	14,832	253,912	\$1.10	288	4,827
	Planned	\$41	13,402	374,827	\$2.14	666	19,261
	% of Plan	87%	111%	68%	51%	43%	25%
Efficient Products Marketplace Redesign (Phase XI)	Actual	\$2.26	280	12,105	\$0.03	1.02	49
	Planned	\$2.56	194	9,269	\$0.09	12	592
	% of Plan	88%	145%	131%	35%	8.25%	8.26%
Home Energy Assessment	Actual	\$20	23	13,506	\$0.47	0.08	36
	Planned	\$21	137	49,036	\$1.19	8.03	2,799
	% of Plan	94%	17%	28%	39%	0.93%	1.28%
Phase VIII							
Home Energy Evaluation	Actual	\$5.04	0.99	1,395	\$0.13	0.02	21
	Planned	\$12	17	25,768	\$0.33	1.10	1,645
	% of Plan	42%	5.74%	5.41%	41%	1.45%	1.25%
EV Energy Efficiency and Demand Response	Actual	\$1.04	1.18	121			
	Planned	\$1.75	4.15	1,559			
	% of Plan	59%	28%	7.78%			
Kits	Actual	\$5.25	115	8,068	\$0.28	5.99	414
	Planned	\$7.70	113	29,838	\$0.47	7.20	1,905
	% of Plan	68%	102%	27%	60%	83%	22%
Manufactured Housing	Actual	\$2.82	0.78	154			
	Planned	\$6.52	8.00	14,185			
	% of Plan	43%	10%	1.09%			

¹⁷ Participation in the Residential Efficient Products Marketplace and Residential Efficient Products Marketplace Extension programs is measured by incentivized unit, i.e., lamp, fixture, or appliance. The "All Residential participant" total excludes the Efficient Products Marketplace (DSM Phase VII) programs because they are measured by units incentivized rather than customers enrolled. Participation in the EV Energy Efficiency and Demand Response Program is measured in units of EV chargers. Participation in the Thermostat Purchase and WeatherSmart program is measured by thermostats purchased and households with controlled thermostats, respectively.

¹⁸ The SCC approved the Smart Thermostat Purchase and WeatherSmart programs as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). Following additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020, as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.

Table 11. Annualized program progress for residential Phases VIII, IX, and XI energy efficiency programs (cumulative through December 31, 2024) in Virginia and North Carolina

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase VIII, continued							
Multifamily	Actual	\$3.14	4.68	1,117			
	Planned	\$8.44	51	45,199			
	% of Plan	37%	9.17%	2.47%			
New Construction	Actual	\$10	9.17	19,039			
	Planned	\$19	19	26,313			
	% of Plan	53%	49%	72%			
Thermostat Purchase and WeatherSmart	Actual	\$3.66	22	4,574	\$0.14	0.66	163
	Planned	\$5.05	31	13,024	\$0.30	1.99	832
	% of Plan	73%	71%	35%	44%	33%	20%
Phase IX							
Smart Home	Actual	\$1.87	0.30	104	\$0.09	0.01	4.70
	Planned	\$7.13	22	25,677	\$0.35	1.39	1,639
	% of Plan	26%	1.40%	0.41%	25%	0.79%	0.29%
Virtual Energy Audit	Actual	\$5.08	30	14,084	\$0.27	1.43	821
	Planned	\$11	146	43,360	\$0.48	9.30	2,768
	% of Plan	48%	21%	32%	56%	15%	30%
Water Savings	Actual	\$0.99	0.91	1,139	\$0.04	0.04	44
	Planned	\$3.59	6.20	12,211	\$0.18	0.40	779
	% of Plan	28%	15%	9.33%	23%	8.84%	5.66%
Phase XI							
Customer Engagement Extension	Actual	\$1.70	228	17,933			
	Planned	\$1.91	265	38,708			
	% of Plan	89%	86%	46%			
All Residential programs							
Total	Actual	\$99	716	347,252	\$2.55	9.24	6,379
	Planned	\$148	1,013	708,975	\$5.54	42	32,219
	% of Plan	66%	71%	49%	46%	22%	20%

Table 12. Annualized program progress for income and age qualifying energy efficiency programs (cumulative through December 31, 2024) in Virginia and North Carolina

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase IX							
IAQ Solar	Actual	\$19	0.54	2,542			
	Planned	\$31	1.67	6,114			
	% of Plan	60%	32%	42%			
Residential IAQ Energy Efficiency	Actual	\$14	10	5,753	\$0.28	0.05	70
	Planned	\$15	19	1,027	\$0.76	1.24	66
	% of Plan	95%	51%	560%	37%	3.62%	107%
Phase X							
Residential IAQ Target Report	Actual	\$2.13	25	0			
	Planned	\$2.70	7	2,450			
	% of Plan	79%	362%	0%			
Phase XI							
Residential IAQ Bundle	Actual	\$18	3.40	3,661	\$0.63	0.05	68
	Planned	\$17	13	1,377	\$0.83	0.85	88
	% of Plan	105%	26%	266%	76%	5.30%	77%
Non-Residential IAQ Bundle	Actual	\$0.23	0.004	19			
	Planned	\$0.61	0.21	20			
	% of Plan	38%	1.90%	95%			
All Income and Age Qualifying programs							
Total	Actual	\$53	39	11,976	\$0.91	0.09	138
	Planned	\$67	42	10,989	\$1.59	2.09	153
	% of Plan	80%	94%	109%	58%	4.30%	90%



Table 13. Annualized program progress for non-residential Phases VII and VIII energy efficiency programs (cumulative through December 31, 2024) in Virginia and North Carolina¹⁹

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase VII							
Heating and Cooling Efficiency	Actual	\$9.08	0.16	31,600	\$0.15	0.002	100
	Planned	\$8.80	2.98	37,074	\$0.48	0.17	2,089
	% of Plan	103%	5.33%	85%	32%	1.19%	4.78%
Manufacturing	Actual	\$3.09	0.07	12,323	\$0.15	0.01	436
	Planned	\$5.93	0.30	13,661	\$0.32	0.02	731
	% of Plan	52%	22%	90%	47%	31%	60%
Window Film	Actual	\$1.51	129	475	\$0.07	1.30	14
	Planned	\$2.15	572	7,551	\$0.12	32	424
	% of Plan	70%	23%	6.29%	63%	4.04%	3.29%
Prescriptive Enhanced Bundle (Phase IX)	Actual	\$21	1.51	27,408	\$0.34	0.04	428
	Planned	\$14	1.79	50,899	\$0.68	0.11	3,249
	% of Plan	150%	85%	54%	50%	39%	13%
Office	Actual	\$3.38	0.17	11,469	\$0.12	0.003	85
	Planned	\$5.55	0.36	20,977	\$0.30	0.02	1,172
	% of Plan	61%	47%	55%	39%	15%	7.21%
Building Optimization (Phase IX)	Actual	\$3.20	0.11	25,669	\$0.07	0	0
	Planned	\$3.14	0.08	13,826	\$0.15	0.006	988
	% of Plan	102%	135%	186%	46%	0%	0%
Phase VIII							
Midstream Energy Efficiency Products	Actual	\$2.94	0.33	5,175			
	Planned	\$7.53	1.20	15,337			
	% of Plan	39%	28%	34%			
Multifamily	Actual	\$1.06	0.07	726			
	Planned	\$1.88	6.28	10,733			
	% of Plan	56%	1.15%	6.76%			
New Construction	Actual	\$5.26	0.03	33,317	\$0.16	0.002	60
	Planned	\$8.27	0.30	14,699	\$0.54	0.02	928
	% of Plan	64%	10%	227%	30%	11%	6.42%
Small Business Improvement Enhanced	Actual	\$17	2.73	15,084	\$0.91	0.10	2,058
	Planned	\$15	2.54	36,797	\$0.88	0.16	2,380
	% of Plan	115%	108%	41%	102%	60%	86%

¹⁹ Participation in the Non-Residential Window Film program is reported in square feet rather than number of participants. The "All Non-Residential participant" total excludes the Non-Residential Window Film program participants because they are measured by square feet of window film rather than customers enrolled. Participation in the Midstream Energy Efficiency Products program is reported in the number of invoices rebated. Participation in the Voltage Optimization program is reported in circuits controlled.

Table 14. Annualized program progress for non-residential Phases IX and X energy efficiency programs (cumulative through December 31, 2024) in Virginia and North Carolina

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase IX							
Agricultural Energy Efficiency	Actual	\$2.39	0.02	6,287			
	Planned	\$2.58	0.45	5,619			
	% of Plan	93%	3.75%	112%			
Building Automation System	Actual	\$1.23	0.004	373	\$0.06	0	0
	Planned	\$2.73	0.08	11,340	\$0.13	0.006	810
	% of Plan	45%	4.76%	3.29%	44%	0%	0%
Engagement	Actual	\$1.79	0	0	\$0.10	0	0
	Planned	\$4.44	0.16	11,927	\$0.23	0.009	663
	% of Plan	40%	0%	0%	45%	0%	0%
Phase X							
Healthcare Energy Solutions	Actual	\$0.94	0.01	97			
	Planned	\$10	0.45	30,600			
	% of Plan	10%	2.22%	0.32%			
Hotel and Lodging Energy Solutions	Actual	\$1.31	0.06	1,897			
	Planned	\$8.90	0.38	25,840			
	% of Plan	15%	14%	7.34%			
Data Server Rooms	Actual	\$0.80	0.002	4.51			
	Planned	\$1.20	0.01	1,947			
	% of Plan	66%	17%	0.23%			



Table 15. Annualized program progress for non-residential Phases X and XI and all-sector energy efficiency programs (cumulative through December 31, 2024) in Virginia and North Carolina²⁰

Program	Metric	Virginia			North Carolina		
		Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)	Expenditures (\$M)	Gross participants (1,000s)	Total annualized net energy savings (MWh/yr)
Phase X, continued							
Lighting Systems & Controls	Actual	\$8.81	0.83	56,441	\$0.45	0.03	4,483
	Planned	\$19	1.82	126,274	\$0.93	0.12	8,031
	% of Plan	45%	45%	45%	48%	27%	56%
Small Business Behavioral	Actual	\$1.89	35	7,256			
	Planned	\$2.55	79	30,364			
	% of Plan	74%	44%	24%			
Phase XI							
Custom	Actual	\$0.80	0.01	194			
	Planned	\$3.86	0.05	10,920			
	% of Plan	21%	13%	1.77%			
All Non-Residential programs							
Total	Actual	\$87	170	235,793	\$2.57	1.48	7,663
	Planned	\$127	671	476,384	\$4.74	33	21,463
	% of Plan	69%	25%	49%	54%	4.53%	36%
All sectors program							
Voltage Optimization (Phase X)	Actual	\$5.15	0.03	26,075			
	Planned	\$6.76	0.23	164,748			
	% of Plan	76%	13%	16%			
All programs							
Total	Actual	\$244	926	621,096	\$6.03	11	14,180
	Planned	\$349	1,726	1,361,096	\$12	77	53,835
	% of Plan	70%	54%	46%	51%	14%	26%

²⁰ Participant total excludes the Efficient Products Marketplace and Window Film (DSM Phase VII) programs because they are measured by units incentivized and square feet installed, respectively, rather than by customers enrolled.



Summary of peak shaving programs

The Company continues to grow its demand response program offerings. In 2024, it launched two new demand response programs: a pilot Residential Electric Vehicle Telematics program and the Residential Peak Time Rebate program. The pilot Telematics program offers Tesla owners in the Company's Virginia service territory the option to participate in demand response. The pilot will continue for three years. The Company has aggressively marketed its Peak Time Rebate Program and enrolled roughly 20,000 customers in its first year. Almost all DR programs exceeded or nearly met their participation goals through 2024; however, only the Residential Smart Thermostat Rewards and Non-Residential Distributed Generation programs are either exceeding or approaching their planned peak shaving potential (kW).

While the electric vehicle market is still maturing, the industry is continuing to learn about the peak shaving potential of EVs and experiencing the natural setbacks that trouble a growing market. For example, one of the original equipment manufacturers (OEMs) for EV chargers, which produced one of the eligible chargers in the Residential EV Charger Rewards Program discontinued its US operations in late 2024. This meant that customers with these chargers could no longer participate in the program.

The Water Savings Demand Response similarly experienced market barriers to ramping up participation. The program was designed with the assumption that the penetration rate of heat pump water heaters would increase. However, both the market availability and the capital costs of controllable water heaters have slowed the uptake of this important measure.

As the Company expands its portfolio offerings into new, less mature services, it will naturally experience such challenges, which inherently come with experimentation and expansion.

In 2024, DNV conducted EM&V impact evaluations of these four programs demand response programs: the Electric Vehicle Rewards, the Electric Vehicle Telematics Program, the Smart Thermostat Rewards Program, and the Non-Residential Distributed Generation Program (details provided in Appendices G and H). The key metrics for evaluating performance indicators are expenditures, net participation, and net peak shaving potential in kW.

Table 16 shows key performance indicators for Dominion Energy's six peak shaving programs.



Table 16. Portfolio spending and net peak shaving potential by program (cumulative through December 31, 2024)^{21, 22}

DSM phase	Program	Metric	Expenditures (\$M)	Participants (1,000s)	Peak shaving potential (kW)
Residential					
VIII	EV Charger Rewards	Actual	\$0.74	2.28	460
		Planned	\$1.40	1.90	1,900
		% of Plan	53%	120%	24%
XI	EV Telematics Pilot	Actual	\$0.15	0.60	120
		Planned	\$0.24	0.33	333
		% of Plan	61%	180%	36%
VIII	Smart Thermostat Rewards	Actual	\$7.06	42	53,361
		Planned	\$9.07	38	61,172
		% of Plan	78%	109%	87%
IX	Water Savings Demand Response	Actual	\$0.36	0.01	0
		Planned	\$1.10	4.41	2,299
		% of Plan	33%	0%	0%
XI	Peak Time Rebate	Actual	\$2.41	20	0
		Planned	\$3.66	25	14,000
		% of Plan	66%	80%	0%
Non-Residential					
II	Distributed Generation	Actual	\$7.81	5.78	6,077
		Planned	\$16	6.00	5,880
		% of Plan	48%	96%	103%
Total					
All Programs		Actual	\$19	71	60,018
		Planned	\$32	76	85,584
		% of Plan	59%	93%	70%

²¹ Participation is defined by the number of participating accounts except for in the Distributed Generation program. In this program, participation is defined by the number of enrolled megawatts.

²² The SCC approved the Smart Thermostat Rewards Program as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). After additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020 as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.



1

INTRODUCTION

1.1 Reporting compliance requirements in Virginia

In Virginia, this report is designed to comply with three major legal requirements. The first is the SCC's Order requiring detailed evaluation, measurement, and verification (EM&V) reports following the implementation of demand-side management (DSM) programs. This Order states:

The purpose of DSM programs is to reduce energy usage, either at peak times (demand response and peak-shaving programs) or year-round (energy efficiency programs). Once DSM programs have been approved, the Company is required to submit annual evaluation, measurement, and verification ("EM&V") reports of the approved programs to the Commission including evidence of actual energy savings achieved as a result of each specific program along with revised cost-benefit test results that incorporate actual Virginia energy savings and cost data.²⁵

The second legal requirement comes from the Virginia Clean Economy Act (VCEA), which states:

The Commission shall annually monitor and report to the General Assembly the performance of all programs approved pursuant to this subdivision, including each utility's compliance with the total annual savings required by § 56-596.2, as well as the annual and lifecycle net and gross energy and capacity savings, related emissions reductions, and other quantifiable benefits of each program; total customer bill savings that the programs produce; utility spending on each program, including any associated administrative costs; and each utility's avoided costs and cost-effectiveness results.²⁶

The third legal requirement comes from Virginia's "EM&V Rule," which outlines the various elements that must be included in the Company's annual EM&V report.²⁷ In keeping with the motion granted by the SCC in Case No. PUR-2018-00168, this and all future EM&V reports shall be issued on or before June 15 of each calendar year.²⁸ Refer to Appendix A for a specific list of the reporting compliance requirements and where the required information can be found in this report or appendices to the report.

²⁵ Virginia State Corporation Commission. Ex Parte: In the matter of baseline determination, methodologies for evaluation, measurement, and verification of existing demand-side management programs, and the consideration of a standardized presentation of summary data for Virginia Electric and Power Company, Case No. PUR-2020-00156, Final Order (October 27, 2021).

²⁶ Virginia State Code Section 56-585.1 A 5 c (April 11, 2020).

²⁷ 20 VAC 5-318-50, developed through SCC Case No. PUR-2017-00047. November 9, 2017.

²⁸ Motion of Virginia Electric and Power Company to Extend and Modify Filing Date for Evaluation, Measurement & Verification Reports and for Expedited Consideration, Case No. PUR-2020-00156, Order Granting Motion (May 13, 2022).

1.2 Reporting compliance requirements in North Carolina

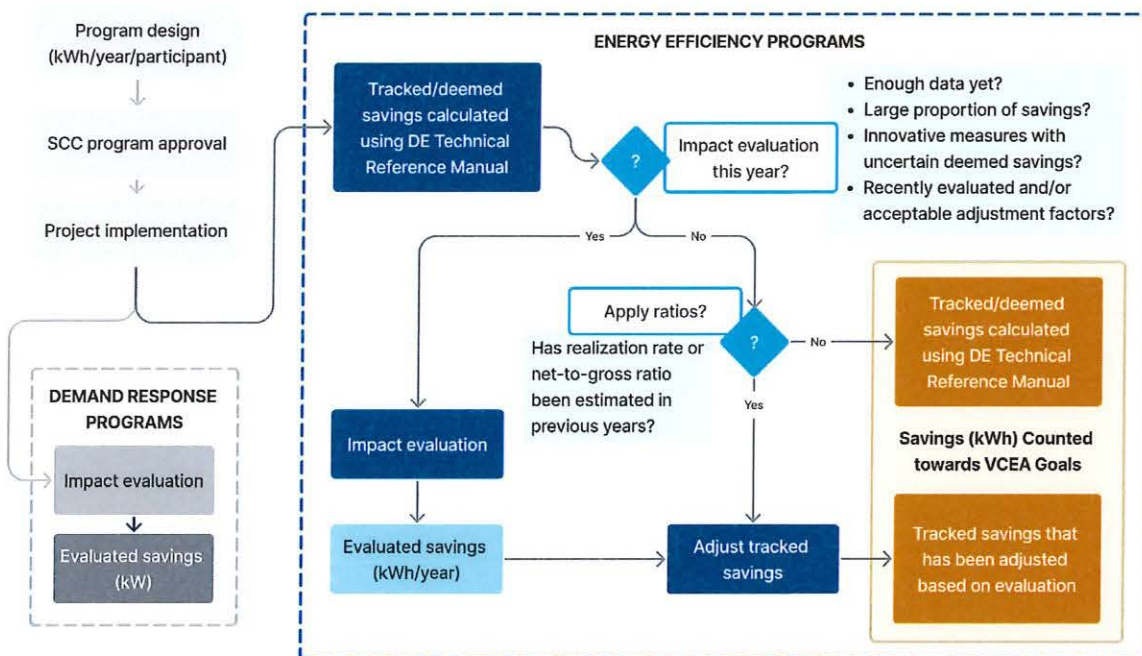
In North Carolina, this report meets the EM&V requirements established by the North Carolina Utilities Commission (NCUC). EM&V reports about the Company's North Carolina programs must be filed with the NCUC and must include the EM&V reporting from Virginia.^{29, 30, 31}

Refer to APPENDIX A for a specific list of the reporting compliance requirements and where the required information can be found in this report or appendices to the report.

1.3 Study approach

Figure 1-1 illustrates the EM&V process that Dominion Energy follows to track key program performance indicators and evaluate them according to rules and orders issued by the SCC and the NCUC and described in detail above. Refer to APPENDIX D for a detailed description of the methodologies used for calculating the results in this report, and to APPENDIX E for the program-specific EM&V plans that guide these methodologies.

Figure 1-1. Dominion Energy program evaluation, measurement, and verification process



EM&V is an important part of a program's cycle because its findings can be used during the program planning and design stages and can inform continuous improvement as a program evolves.

²⁹ In the Matter of Application of Virginia Electric and Power Company d/b/a Dominion North Carolina Power, for Approval of Demand Side Management and Energy Efficiency Cost Recovery Rider Pursuant to G.S. 62-133.9 and Commission Rule R8-69, Order Approving DSM/EE Rider and Requiring Customer Notice at 13, Docket No. E-22, Sub 473 (December 13, 2011).

³⁰ Through its Orders issued in Docket No. E-22, Sub 473; and finally the NCUC's instruction to align its EM&V filing schedule with that in Virginia (Docket No. E-22, Sub 524).

³¹ SCC Case No. PUR-2018-00168 on April 30, 2020.



1.4 Report structure

Sections 2 through 5 contain the one-page summaries of the EM&V results for all the programs that were active in 2023. Each page contains the following:

1. VA SCC and NCUC case and docket numbers
2. Years program has been open
3. Per participant net savings per year
4. Eligibility requirements and measure list
5. Quick snapshot view of program performance to date by participation, net energy savings, and program costs
6. Key participant, energy, and demand metrics
7. Graphic summary of program composition by measure, building type, or some other valuable information

Following the body of the report, we provide appendices detailing supporting methodologies and program data in compliance with the legal requirements detailed above in Sections 1.1 and 1.2.

- APPENDIX A is a matrix showing in detail how DNV is complying with each legal requirement and order.
- APPENDIX B is the detailed version of this report, with program write-ups instead of one-page summaries.
- APPENDIX C provides a glossary of terms.
- APPENDIX D describes, in detail, the methodologies used to produce the results reported in the body of this report and supporting appendices.
- APPENDIX E contains the EM&V plans for each of the programs with program impacts that will be tracked and evaluated next year.
- APPENDIX F is the Dominion Energy Technical Reference Manual (TRM). It lists the protocols and assumptions used to calculate gross annualized savings, gross peak summer and winter demand reductions, water savings, and lifetime savings for the savings reported in this report.
- APPENDIX G through APPENDIX I present the detailed reports and memos documenting the impact evaluations and in-depth studies conducted for the following programs:
 - Non-Residential Distributed Generation (APPENDIX G)
 - Residential Smart Thermostat Reward (APPENDIX H)
 - Residential EV Charger Reward (APPENDIX I)
- APPENDIX J and APPENDIX K contain the detailed program performance indicators for each active and closed program with persistent savings in 2023 in Virginia and North Carolina respectively. The results are presented at these levels of detail:
 - Annual
 - Monthly for the reporting year (i.e., 2024)
 - Measure-level
 - Rate schedule level, compared to rate schedule level planned savings and compared to rate schedule level consumption
 - Benefit-cost ratios, including updated cost/benefit analysis of the DSM programs, along with a comparison of the updated cost/benefit analysis to the original cost/benefit analysis and all other cost/benefit analyses from prior EM&V Reports.
- APPENDIX L contains detailed program cumulative savings for each active and closed program with persistent savings in 2024 used for claiming lost revenue, program performance incentives, IRP modeling, lifetime savings accounting, and other purposes used in both states.



Section 1.5 shows the specific programs included in this report and the SCC's or NCUC's order date for approval, suspension, reinstatement, and closure of each of these programs. It also shows the average annualized kWh/year per participant.

1.5 Programs covered in this report

This report divides the DSM programs into four categories:

- Residential Energy Efficiency Programs (Section 2)
- Income and Age Qualifying Energy Efficiency Programs (Section 3)
- Non-Residential Energy Efficiency Programs (Section 4)
- All Sectors Energy Efficiency Programs (Section 5)
- Peak Shaving Programs (Section 6)

The tables in Sections 1.5.1 through 1.5.3 show the active, closed, and launching programs addressed in this report. The tables include the following information about each program:

- SCC's or NCUC's order dates for approval, suspension, reinstatement, and closure
- Average annualized kWh/year per for active, closed, and launching programs
- Appendices where more detailed data can be found about the respective program (e.g., EM&V plans, 2024 monthly program performance indicators, measure-level performance indicators, rate schedule level performance indicators)



1.5.1 Active programs

Table 1-1. Residential Phases VII and VIII energy efficiency programs open to enrollment or had savings in 2024

DSM phase	Active program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Report appendices		
			Number	Updated		Perf. indic.	EM&V plan	
Residential								
VII	Efficient Products Marketplace	VA	PUR-2018-00168	May 2, 2019	69	1	E1	
		NC	E-22, SUB 568	Nov. 13, 2019	62	1		
XI	Efficient Products Marketplace Redesign	VA	PUR-2022-00210	Aug. 4, 2023	43	2	E2	
		NC	E-22, Sub 693	Apr. 25, 2024	48	2		
VII	Home Energy Assessment	VA	PUR-2018-00168	May 2, 2019	575	3	E3	
		NC	E-22, SUB 567	Nov. 13, 2019	476	3		
VIII	Home Energy Evaluation	VA	PUR-2022-00210	Aug. 4, 2023	3,363	4	E4	
		NC	E-22, SUB 683	Jan. 22, 2024	1,282	4		
	EV Energy Efficiency and Demand Response	VA	PUR-2019-00201	Jul. 30, 2020	103	7	E6	
		NC	N/A	N/A	N/A	N/A		
	Kits	VA	PUR-2019-00201	Jul. 30, 2020	70	8	E7	
		NC	E-22, SUB 592	Feb. 9, 2021	69	5		
	Manufactured Housing	VA	PUR-2019-00201	Jul. 30, 2020	197	10	E9	
		NC	N/A	N/A	N/A	N/A		
	Multifamily	VA	PUR-2019-00201	Jul. 30, 2020	239	9	E8	
		NC	N/A	N/A	N/A	N/A		
	New Construction	VA	PUR-2019-00201	Jul. 30, 2020	2,077	11	E10	
		NC	N/A	N/A	N/A	N/A		
		Thermostat Purchase and WeatherSmart	VA	Reapproved: PUR-2019-00201	Jul. 30, 2020	381	12	E11
			NC	E-22, SUB 594	Feb. 19, 2019	499	6	



Table 1-2. Residential Phase IX and XI energy efficiency, Income and Age Qualifying, and Non-Residential Phases VII and IX energy efficiency programs open to enrollment or had impacts in 2024

DSM phase	Active program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Report appendices	
			Number	Updated		Perf. indic.	EM&V plan
Residential							
IX	Smart Home	VA	PUR-2020-00274	Sep. 7, 2021	344	13	E12
		NC	E-22, SUB 618	Mar. 18, 2022	427	7	
	Virtual Energy Audit	VA	PUR-2020-00274	Sep. 7, 2021	471	14	E13
		NC	E-22, SUB 619	Mar. 18, 2022	574	8	
	Water Savings	VA	PUR-2020-00274	Sep. 7, 2021	1,259	15	E14
		NC	E-22, SUB 620	Mar. 18, 2022	1,261	9	
XI	Customer Engagement Extension	VA	PUR-2022-00210	Aug. 4, 2023	79	6	E5
		NC	N/A	N/A	N/A	N/A	N/A
Income and Age Qualifying							
IX	IAQ Solar	VA	PUR-2020-00274	Sep. 7, 2021	4,726	18	E15
		NC	N/A	N/A	N/A	N/A	N/A
	Residential IAQ Energy Efficiency	VA	PUR-2020-00274	Sep. 7, 2021	579	19	E16
		NC	E-22, SUB 608	Dec. 14, 2021	1,565	10	
X	Residential IAQ Target Report	VA	PUR-2021-00247	Aug. 10, 2022	0	20	E17
		NC	N/A	N/A	N/A	N/A	N/A
XI	Residential IAQ Bundle	VA	PUR-2022-00210	Aug. 4, 2023	1,078	21	E18
		NC	E-22, SUB 684	Jan. 22, 2024	1,511	11	
	Non-Residential IAQ Bundle	VA	PUR-2022-00210	Aug. 4, 2023	4,823	22	E19
		NC	N/A	N/A	N/A	N/A	N/A
Non-Residential							
VII	Heating and Cooling Efficiency	VA	PUR-2018-00168	May 2, 2019	198,741	23	E20
		NC	E-22, SUB 574	Nov. 13, 2019	49,877	12	
	Manufacturing	VA	PUR-2018-00168	May 2, 2019	183,927	24	E21
		NC	E-22, SUB 571	Nov. 13, 2019	87,201	13	
	Window Film	VA	PUR-2018-00168	May 2, 2019	5,218	25	E22
		NC	E-22, SUB 570	Nov. 13, 2019	6,974	14	
IX	Prescriptive Enhanced Bundle	VA	PUR-2022-00210	Aug. 4, 2023	33,031	26	E23
		NC	E-22, SUB 682	Jan. 22, 2024	15,063	15	
VII	Office	VA	PUR-2018-00168	May 2, 2019	67,864	27	E24
		NC	E-22, SUB 572	Nov. 13, 2019	28,172	16	
IX	Building Optimization	VA	PUR-2020-00274	Sep. 7, 2021	227,157	28	E25
		NC	E-22, SUB 615	Mar. 18, 2022	0	17	



Table 1-3. Non-Residential Phases VIII, IX, X, and XI energy efficiency programs and all sector programs open to enrollment or had savings in 2024

DSM phase	Active program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Report appendices		
			Number	Updated		Perf. indic.	EM&V plan	
Non-Residential								
VIII	Midstream Energy Efficiency Products	VA	PUR-2019-00201	Jul. 30, 2020	15,542	29	E26	
		NC	N/A	N/A	N/A	N/A	N/A	
	Multifamily	VA	PUR-2019-00201	Jul. 30, 2020	10,078	30	E27	
		NC	N/A	N/A	N/A	N/A	N/A	
	New Construction	VA	PUR-2019-00201	Jul. 30, 2020	1,074,728	31	E28	
		NC	E-22, SUB 591	Feb. 9, 2021	29,795	18		
	Small Business Improvement Enhanced	VA	PUR-2019-00201	Jul. 30, 2020	5,525	32	E29	
		NC	E-22, SUB 596	Feb. 9, 2021	20,995	19		
	IX	Agricultural Energy Efficiency	VA	PUR-2020-00274	Sep. 7, 2021	369,795	33	E30
			NC	N/A	N/A	N/A	N/A	N/A
Building Automation System		VA	PUR-2020-00274	Sep. 7, 2021	93,216	34	E31	
		NC	E-22, SUB 614	Mar. 18, 2022	0	20		
Engagement		VA	PUR-2020-00274	Sep. 7, 2021	0	35	E32	
		NC	E-22, SUB 616	Mar. 18, 2022	0	21		
X	Healthcare	VA	PUR-2021-00247	Aug. 10, 2022	9,728	36	E33	
		NC	N/A	N/A	N/A	N/A	N/A	
	Hotel and Lodging	VA	PUR-2021-00247	Aug. 10, 2022	34,487	37	E34	
		NC	N/A	N/A	N/A	N/A	N/A	
	Data Server Room	VA	PUR-2021-00247	Aug. 10, 2022	2,254	38	E35	
		NC	N/A	N/A	N/A	N/A	N/A	
	Lighting Systems & Controls	VA	PUR-2021-00247	Aug. 10, 2022	68,165	39	E36	
		NC	NO. E-22, SUB 666	Apr. 24, 2023	144,612	22		
	Small Business Behavioral	VA	PUR-2021-00247	Aug. 10, 2022	206	40	E37	
		NC	N/A	N/A	N/A	N/A	N/A	
XI	Custom	VA	PUR-2022-00210	Aug. 4, 2023	27,675	41	E38	
		NC	N/A	N/A	N/A	N/A	N/A	
All sectors								
X	Voltage Optimization	VA	PUR-2021-00247	Aug. 10, 2022	26,074,937	43	E39	
		NC	N/A	N/A	N/A	N/A	N/A	



Table 1-4. Residential and Non-Residential demand response programs open to enrollment or had impacts in 2024

DSM phase	Active program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Report appendices	
			Number	Updated		Perf. indic.	EM&V plan
Residential							
VIII	EV Charger Rewards	VA	PUR-2019-00201	Jul. 30, 2020	0.17 (kW)	44	E40
		NC	N/A	N/A	N/A	N/A	N/A
XI	Telematics Vehicle Charger Pilot	VA	PUR-2022-00210	Aug. 4, 2023	0.17 (kW)	45	E41
		NC	N/A	N/A	N/A	N/A	N/A
VIII	Smart Thermostat Rewards	VA	Reapproved: PUR-2019-00201	Jul. 30, 2020	0.97 (kW)	46	E42
		NC	E-22, SUB 594	Feb. 9, 2021	0.96 (kW)	23	
IX	Water Savings Demand Response	VA	PUR-2019-00201	Jul. 30, 2020	0 (kW)	47	E43
		NC	E-22, SUB 621	Mar. 18, 2022	0 (kW)	24	
XI	Peak Time Rebate	VA	PUR-2022-00210	Aug. 4, 2023	0 (kW)	48	E44
		NC	N/A	N/A	N/A	N/A	N/A
Non-Residential							
II	Distributed Generation	VA	Extension: PUR-2020-00274	Sep. 7, 2021	893 (kW)	49	E45
		NC	N/A	N/A	N/A	N/A	N/A



1.5.2 Closed programs

Table 1-5. Closed Residential and Income and Age Qualifying programs

DSM phase	Closed program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Performance indicators appendix
			Number	Updated		
Residential (energy efficiency)						
I	Lighting	VA	PUE-2009-00081	Mar. 24, 2010	28	50
		NC	E-22, Sub 469	Feb. 22, 2011	28	25
	Residential Smart Cooling Reward	VA	Extension: PUR-2019-00201	Jul. 30, 2020	0.53 (kW)	72
		NC	E-22, Sub 465	Feb. 22, 2011	0.53 (kW)	43
II	Home Energy Check-Up	VA	PUE-2011-00093	Apr. 30, 2012	628	51
		NC	E-22, Sub 498	Dec. 17, 2013	755	26
	Heat Pump Tune-Up	VA	PUE-2011-00093	Apr. 30, 2012	214	52
		NC	E-22, Sub 499	Dec. 17, 2013	229	27
	Duct Sealing	VA	PUE-2011-00093	Apr. 30, 2012	232	53
		NC	E-22, Sub 397	Dec.16, 2013	242	28
	Heat Pump Upgrade	VA	PUE-2011-00093	Apr. 30, 2012	758	54
		NC	E-22, Sub 500	Dec. 17, 2013	209	29
IV	Appliance Recycling	VA	PUE-2014-00071	Apr. 24, 2015	499	55
		NC	N/A	N/A	N/A	N/A
V	Retail LED	VA	N/A	N/A	N/A	N/A
		NC	E-22, Sub 539	Dec. 20, 2016	21	44
VII	Customer Engagement	VA	PUR-2019-00201	Jul. 30, 2020	19	5
		NC	N/A	N/A	N/A	N/A
	Appliance Recycling	VA	PUR-2018-00168	May 2, 2019	419	56
		NC	E-22, SUB 569	Nov. 13, 2019	429	30
Income and Age Qualifying (energy efficiency)						
I	Residential Low Income	VA	PUE-2009-00081	Mar. 24, 2010	528	57
		NC	E-22, Sub 523	Oct. 6, 2015	490	31
IV	Residential IAQ Home Improvement	VA	PUE-2014-00071	Apr. 24, 2015	385	58
		NC	Reopening: E-22 SUB	Jun. 26, 2018	622	32
VIII	IAQ HVAC Health and Safety	VA	PUR-2019-00201	Jul. 30, 2020	234	59
		NC	N/A	N/A	N/A	N/A
X	Residential IAQ Home Improvement Enhanced	VA	PUR-2021-00247	Aug. 10, 2022	411	60
		NC	N/A	N/A	N/A	N/A
	Non-Residential IAQ	VA	PUR-2021-00247	Aug. 10, 2022	0	61
		NC	N/A	N/A	N/A	N/A

Table 1-6. Closed Non-Residential programs

DSM phase	Closed program	State	Case/Docket		Participant kWh/yr (through year-end 2024)	Performance indicators appendix
			Number	Updated		
Non-Residential (energy efficiency)						
I	Commercial HVAC Upgrade	VA	PUE-2009-00081	Mar. 24, 2010	47,361	62
		NC	E-22, Sub 467	Aug. 13, 2014	27,641	33
	Commercial Lighting	VA	PUE-2009-00081	Mar. 24, 2010	29,337	64
		NC	E-22, Sub 469	Aug. 13, 2014	58,372	35
II	Duct Testing and Sealing	VA	PUE-2011-00093	Apr. 30, 2012	15,491	67
		NC	E-22, Sub 496	Dec.17, 2013	12,621	38
	Energy Audit	VA	PUE-2011-00093	Apr. 30, 2012	23,982	68
		NC	E-22, Sub 495	Dec. 16, 2013	12,838	39
III	Heating & Cooling Efficiency	VA	PUE-2013-00072	Apr. 29, 2014	27,248	63
		NC	E-22, Sub 507	Oct. 27, 2014	2,062	34
	Lighting Systems & Controls	VA	PUE-2013-00072	Apr. 29, 2014	45,611	65
		NC	E-22, Sub 508	Oct. 27, 2014	15,090	36
	Window Film	VA	PUE-2013-00072	Apr. 29, 2014	6,440	70
		NC	E-22 Sub 509	Oct. 16, 2018	6,974	41
V	Small Business Improvement	VA	PUE-2015-00089	Apr. 19, 2016	20,401	71
		NC	E-22 Sub 538	Oct. 26, 2016	24,235	42
VI	Prescriptive	VA	PUE-2016-00111	Jun. 1, 2017	14,730	69
		NC	E-22, SUB 543	Oct. 16, 2017	13,410	40
VII	Lighting Systems & Controls	VA	PUR-2018-00168	May 2, 2019	41,803	66
		NC	E-22, SUB 573	Nov. 13, 2019	39,899	37

1.5.3 Launching programs

Table 1-7. Programs launching in 2025

DSM phase	Launching program	State	Case/Docket		Report appendices	
			Number	Updated	Perf. indic.	EM&V plan
Residential (energy efficiency)						
XII	New Construction	VA	PUR-2023-00217	Jul. 26, 2024	16	E46
		NC	N/A	N/A	N/A	N/A
	Smart Thermostat Purchase	VA	PUR-2023-00217	Jul. 26, 2024	17	E47
		NC	N/A	N/A	N/A	N/A
Non-Residential (energy efficiency)						
XII	Non-Residential New Construction	VA	PUR-2023-00217	Jul. 26, 2024	42	E48
		NC	N/A	N/A	N/A	N/A



2 ENERGY EFFICIENCY – RESIDENTIAL

Table 2-1. Residential energy efficiency programs open to enrollment or had savings in 2024

DSM Phase	Acronym	Program	VA	NC
VII, X	REEC, REE2	Efficient Products Marketplace	✓	✓
XI	REEC3	Efficient Products Marketplace (Redesign)	✓	✓
VII	RTHO	Home Energy Assessment	✓	✓
VIII	RHRF	Home Retrofit	✓	✓
	RHR2	Home Energy Evaluation	✓	✓
VIII	REVEE	EV Energy Efficiency and Demand Response	✓	
	RKTS	Kits	✓	✓
	RMHP	Manufactured Housing	✓	
	RMFP	Multifamily	✓	
	RNCR	New Construction	✓	
	RTEE	Thermostat Purchase and WeatherSmart	✓	✓
IX	RSMH	Smart Home	✓	✓
	RVAU	Virtual Energy Audit	✓	✓
	RWEE	Water Savings	✓	✓
XI	RCEB2	Customer Engagement (Extension)	✓	

Figure 2-1 and Figure 2-2 show the cumulative count of Residential program participation and net annualized energy savings in the two states, for the programs listed above, at the zip code level, through December 31, 2024. The deeper the color, the greater the participation and net annualized energy savings.

Figure 2-1. Virginia and North Carolina Residential program participation, by zip code

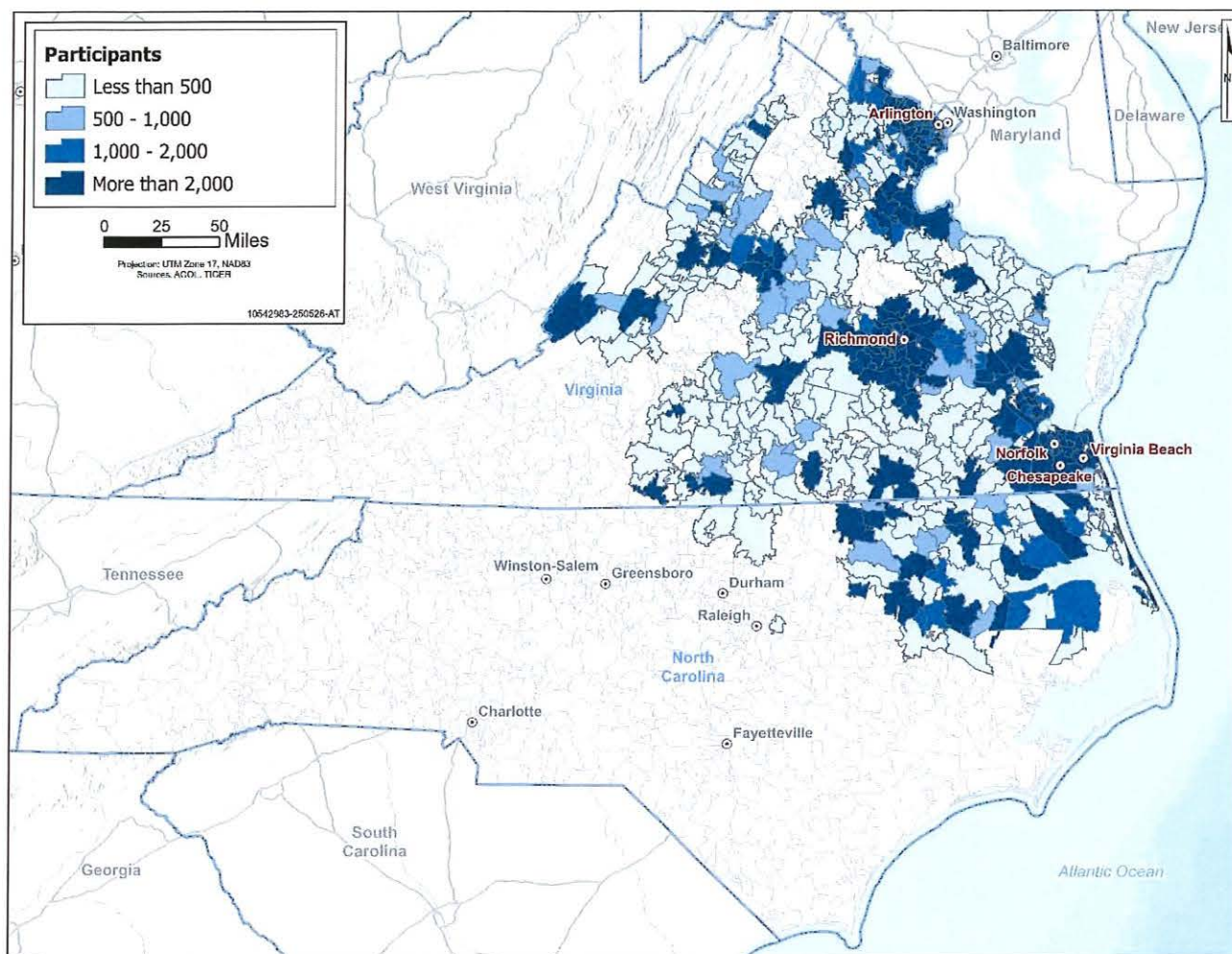
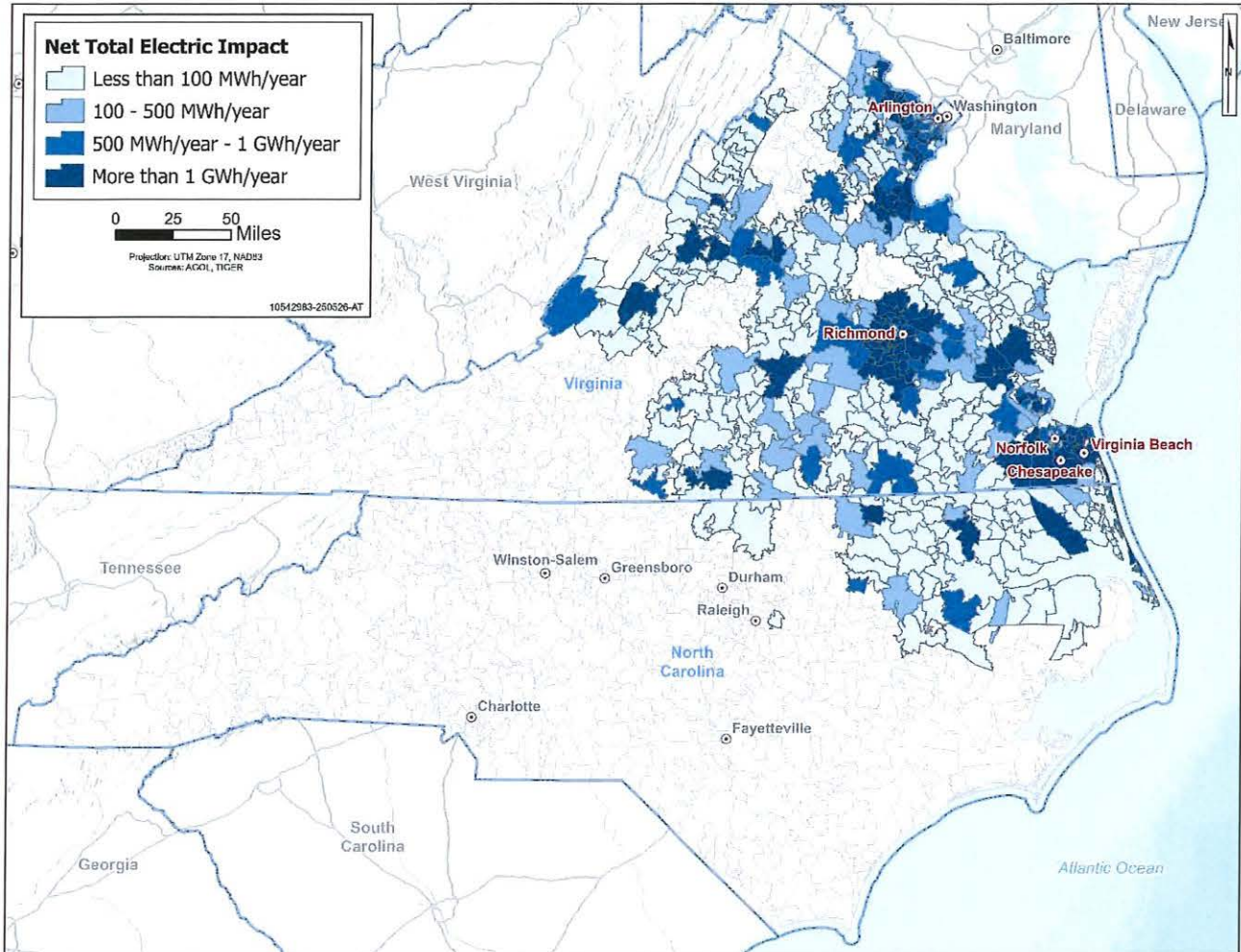


Figure 2-2. Virginia and North Carolina Residential program net annualized energy savings, by zip code



RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE

2019-2024

17 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia
- Customers must have a Dominion Energy residential account to purchase discounted measures on the Dominion Energy Marketplace
- New ENERGY STAR® appliances and other energy efficient products



Incentivized **14,832,361** units, **111%** of planned units.



Achieved net annual energy savings of **253,912 MWh/year**, **68%** of planned energy savings



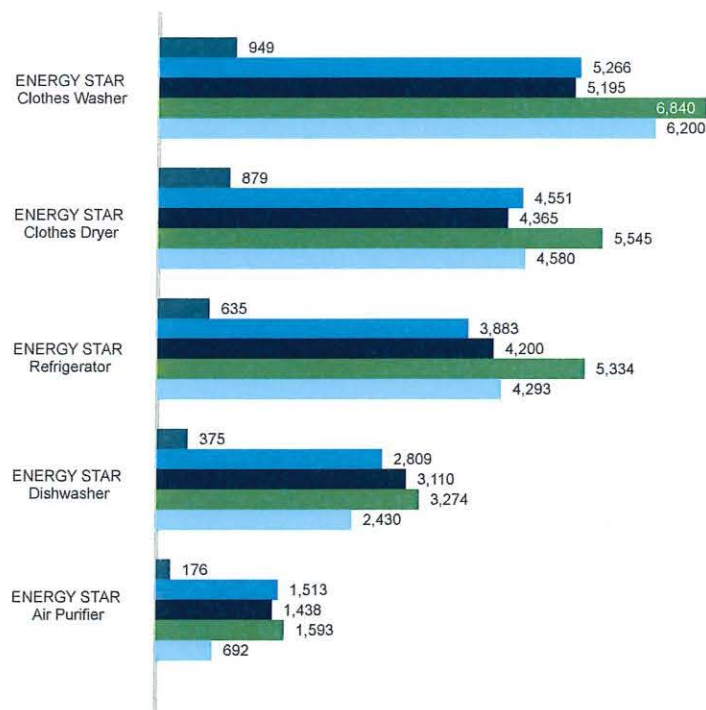
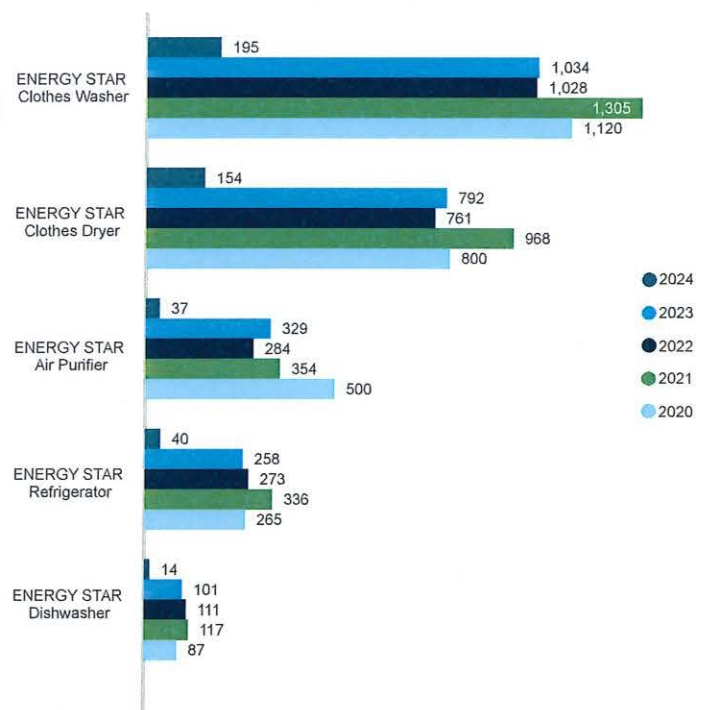
Spent **87%** of planned expenditures

Measures

- LED lamps
- Refrigerators
- Freezers
- Clothes washers
- Clothes dryers
- Room air purifiers
- Dehumidifiers
- Dishwashers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	8,063,058	8,459,198	9,952,004	4,134,018	343,137	35,587,464
Total Program Participants (#)	2,596,966	4,263,855	5,163,385	19,118	3,187	14,832,361
Total Gross Incremental Savings (kWh/yr)	89,881,928	122,317,496	150,318,593	2,608,640	452,545	
Total Net Incremental Savings (kWh/yr)	60,072,654	60,277,598	75,613,324	996,488	167,919	
Peak Gross Inc. Summer Demand Reduction (kW)	8,295	11,274	13,821	305	52	
Peak Net Inc. Summer Demand Reduction (kW)	5,532	5,549	6,946	118	19	
Peak Gross Inc. Winter Demand Reduction (kW)		23,472	29,038	147	24	
Peak Net Inc. Winter Demand Reduction (kW)		11,620	14,653	59	9	
Total Net Lifetime Savings (kWh)	97,706,801	243,589,528	458,337,304	472,800	1,624,783	4,213,032,931
Peak Net Lifetime Summer Demand Reduction (kW)	10,726	16,276	23,221	118	138	23,359
Peak Net Lifetime Winter Demand Reduction (kW)		11,620	26,274	59	68	26,342

TOTAL PARTICIPANTS BY APPLIANCE TYPE

TOTAL SAVINGS BY APPLIANCE TYPE
(MWH/YR)

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE

2020-2024

17 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in North Carolina
- Customers must have a Dominion Energy residential account to purchase discounted measures on the Dominion Energy Marketplace
- New ENERGY STAR® appliances and other energy efficient products



Incentivized **288,079** units, **43%** of planned units.



Achieved net annual energy savings of **4,827 MWh/year**, **25%** of planned energy savings



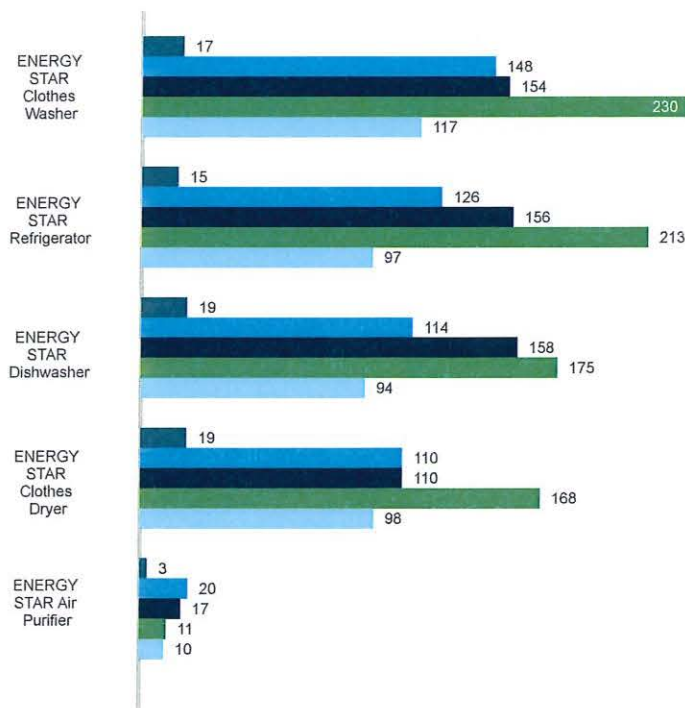
Spent **51%** of planned expenditures

Measures

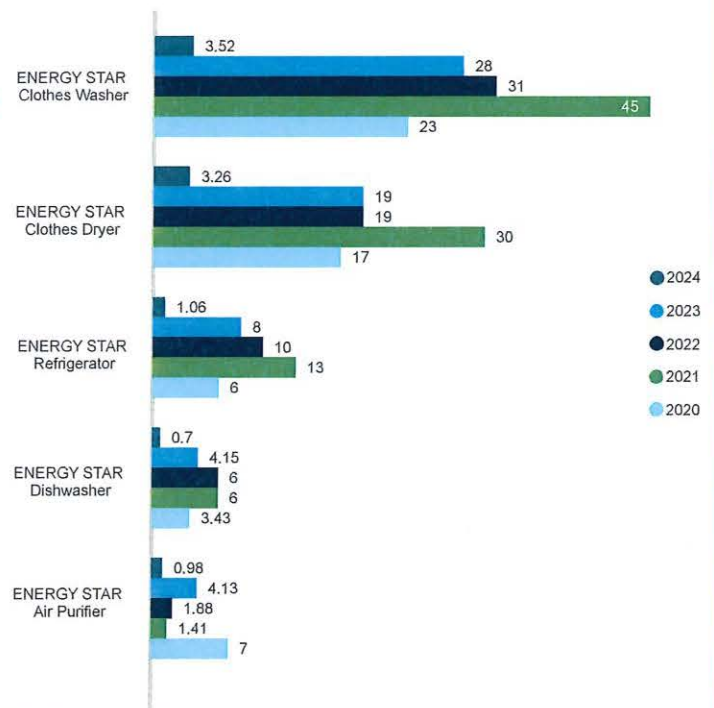
- LED lamps
- Refrigerators
- Freezers
- Clothes washers
- Clothes dryers
- Room air purifiers
- Dehumidifiers
- Dishwashers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	238,201	386,515	308,435	157,460	12,006	1,102,618
Total Program Participants (#)	86,493	116,668	84,301	542	75	288,079
Total Gross Incremental Savings (kWh/yr)	2,707,492	3,582,113	2,828,480	65,245	9,619	
Total Net Incremental Savings (kWh/yr)	1,796,481	1,676,053	1,327,228	24,084	3,606	
Peak Gross Inc. Summer Demand Reduction (kW)	249	330	261	8	1	
Peak Net Inc. Summer Demand Reduction (kW)	165	154	122	3	0	
Peak Gross Inc. Winter Demand Reduction (kW)		686	543	3	1	
Peak Net Inc. Winter Demand Reduction (kW)		323	256	1	0	
Total Net Lifetime Savings (kWh)	816,541	3,492,437	7,515,289	11,220	38,655	80,067,079
Peak Net Lifetime Summer Demand Reduction (kW)	165	319	441	3	3	445
Peak Net Lifetime Winter Demand Reduction (kW)		323	579	1	1	580

TOTAL PARTICIPANTS BY APPLIANCE TYPE



TOTAL SAVINGS BY APPLIANCE TYPE (MWH/YR)



RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE (REDESIGN)

2023-2024

43 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia
- Customers must have a Dominion Energy residential account to purchase discounted measures on the Dominion Energy Marketplace
- New ENERGY STAR® appliances and other energy efficient products

Measures

- Spray Foam
- Refrigerators
- Freezers
- Clothes Washers
- Clothes Dryers
- Room Air Purifiers
- Dehumidifiers
- Air Filters
- Advanced Power Strips
- Room ACs
- Bathroom Vent Fans
- Water Coolers



Incentivized **279,953** units, **145%** of planned units.



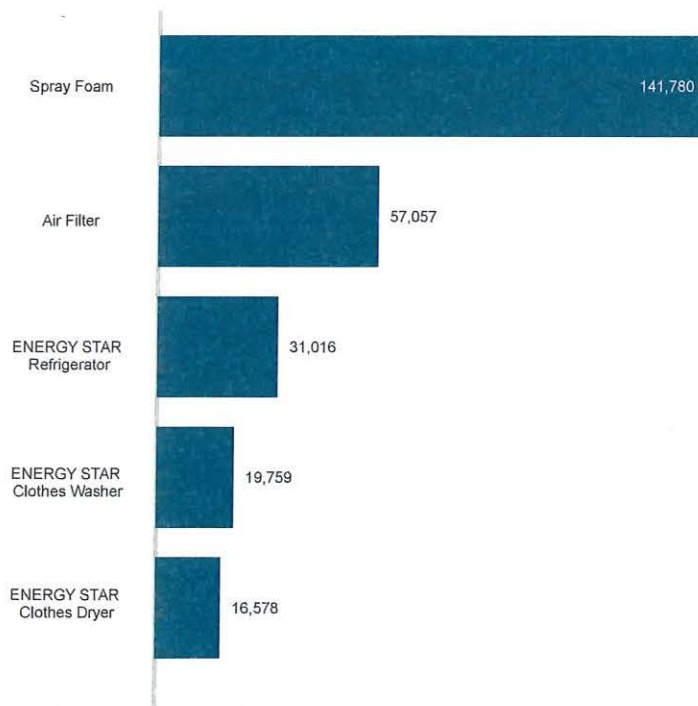
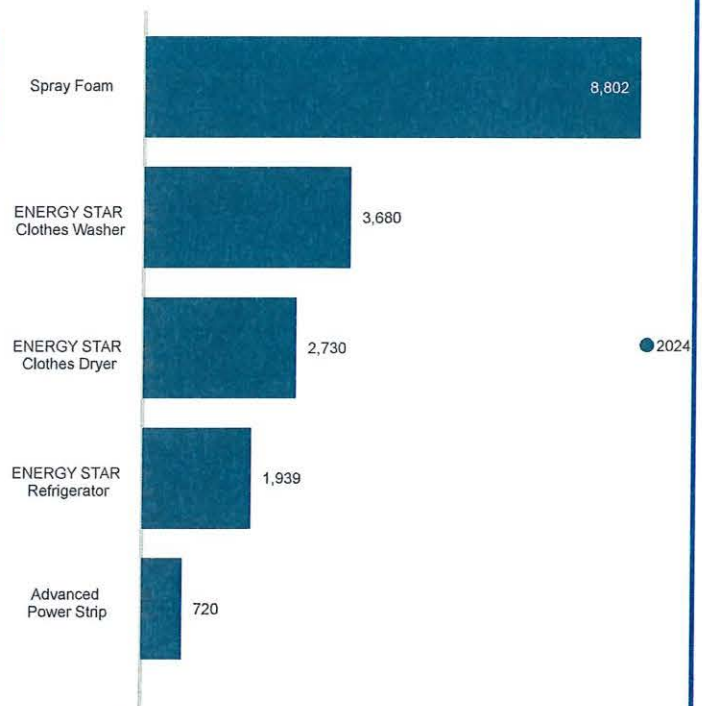
Achieved net annual energy savings of **12,105 MWh/year**, **131%** of planned energy savings



Spent **88%** of planned expenditures

Category	2023	2024	Lifetime
Total Program Cost (\$)	5,800	2,252,126	2,257,926
Total Program Participants (#)	0	279,953	279,953
Total Gross Incremental Savings (kWh/yr)	0	19,213,653	
Total Net Incremental Savings (kWh/yr)	0	12,104,602	
Peak Gross Inc. Summer Demand Reduction (kW)	0	1,474	
Peak Net Inc. Summer Demand Reduction (kW)	0	929	
Peak Gross Inc. Winter Demand Reduction (kW)	0	686	
Peak Net Inc. Winter Demand Reduction (kW)	0	432	
Total Net Lifetime Savings (kWh)	0	4,393,338	163,457,659
Peak Net Lifetime Summer Demand Reduction (kW)	0	929	929
Peak Net Lifetime Winter Demand Reduction (kW)	0	432	432

TOTAL PARTICIPANTS BY MEASURE TYPE

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE (REDESIGN)

2024

48 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in North Carolina
- Customers must have a Dominion Energy residential account to purchase discounted measures on the Dominion Energy Marketplace
- New ENERGY STAR® appliances and other energy efficient products



Incentivized **1,020** units, **8%** of planned units.



Achieved net annual energy savings of **48,897 kWh/year**, **8%** of planned energy savings



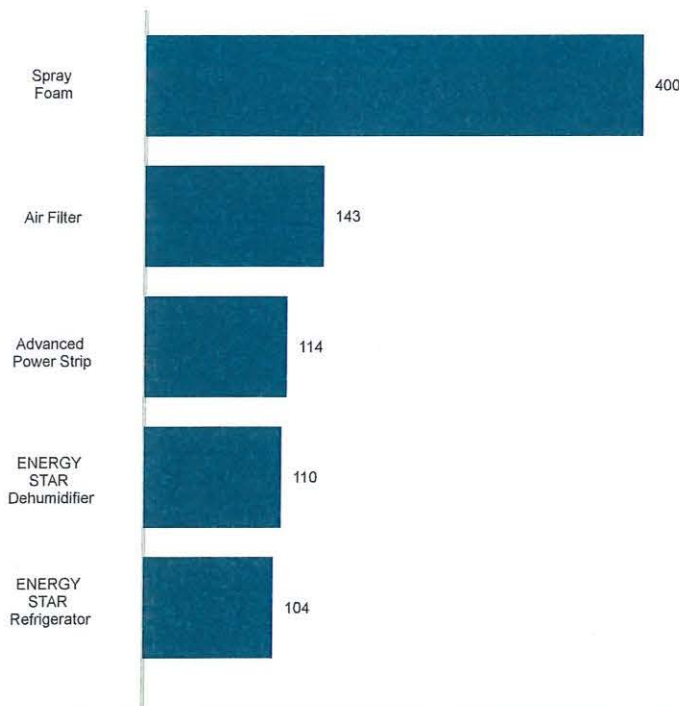
Spent **35%** of planned expenditures

Measures

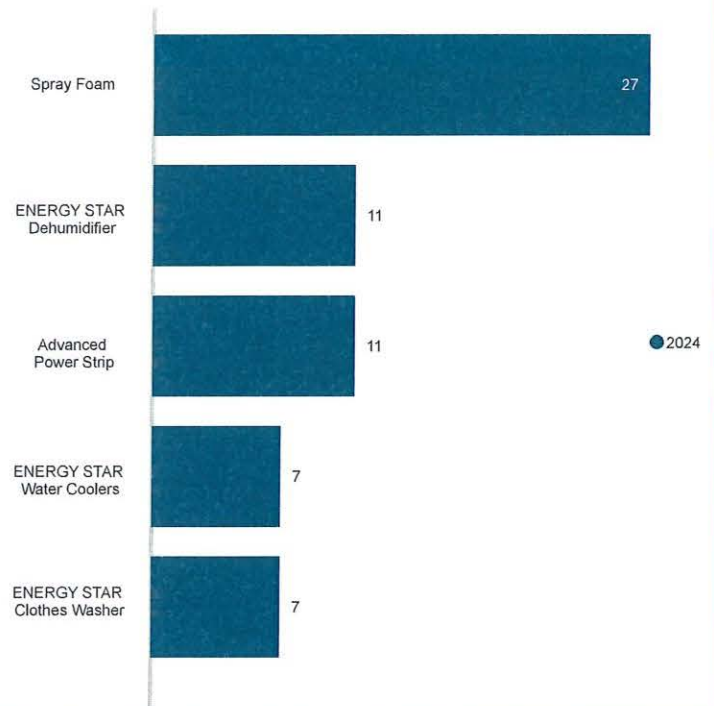
- Spray Foam
- Refrigerators
- Freezers
- Clothes Washers
- Clothes Dryers
- Room Air Purifiers
- Dehumidifiers
- Air Filters
- Advanced Power Strips
- Room ACs
- Bathroom Vent Fans
- Water Coolers

Category	2024	Lifetime
Total Program Cost (\$)	32,494	32,494
Total Program Participants (#)	1,020	1,020
Total Gross Incremental Savings (kWh/yr)	77,615	
Total Net Incremental Savings (kWh/yr)	48,897	
Peak Gross Inc. Summer Demand Reduction (kW)	8	
Peak Net Inc. Summer Demand Reduction (kW)	5	
Peak Gross Inc. Winter Demand Reduction (kW)	3	
Peak Net Inc. Winter Demand Reduction (kW)	2	
Total Net Lifetime Savings (kWh)	6,918	586,281
Peak Net Lifetime Summer Demand Reduction (kW)	5	5
Peak Net Lifetime Winter Demand Reduction (kW)	2	2

TOTAL PARTICIPANTS BY MEASURE TYPE



TOTAL SAVINGS BY MEASURE TYPE (MWH/YR)



RESIDENTIAL HOME ENERGY ASSESSMENT

2019-2024

575 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia living in a single-family detached or attached residence
- Customer that is responsible for electric bill and either owns the home or is otherwise able to secure permission to complete measures
- Work must be completed by a participating contractor

Measures

- Direct install lighting
- Cool roof
- Hot water ENERGY STAR® appliances
- Faucets aerators
- Low flow showerheads
- Heat pump tune ups
- Heat pump upgrades
- Duct sealing and duct Insulation



Enrolled **23,499** customers, **17%** of planned participation

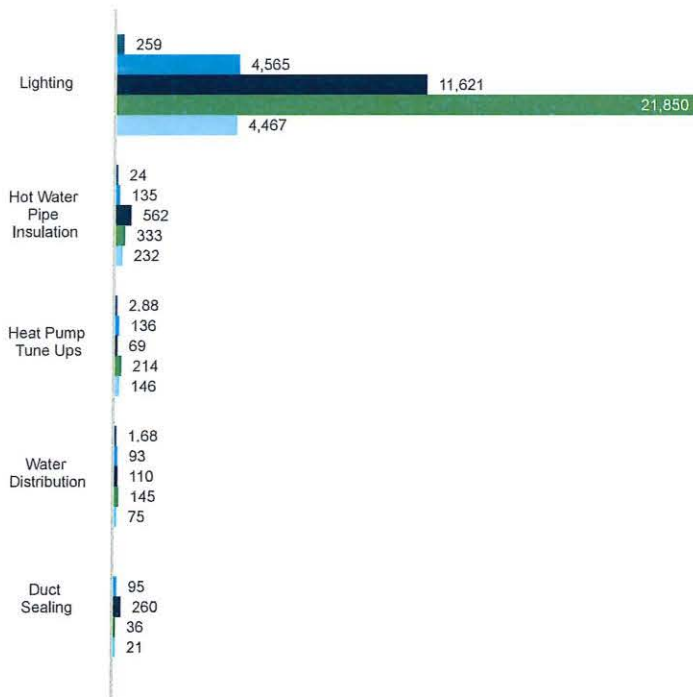
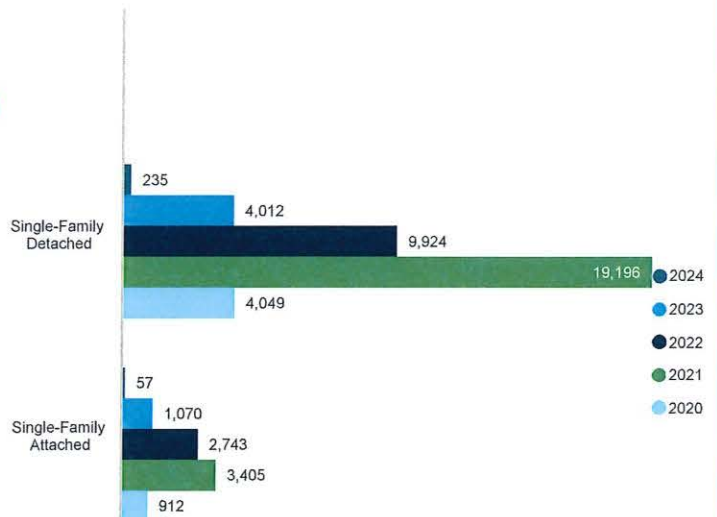


Achieved net annual energy savings of **13,506 MWh/year**, **28%** of planned energy savings



Spent **94%** of planned expenditures

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	2,981,049	7,652,974	4,661,476	3,581,578	529,095	20,121,318
Total Program Participants (#)	2,738	9,917	6,509	4,101	234	23,499
Total Gross Incremental Savings (kWh/yr)	4,960,666	22,601,069	12,667,811	5,081,335	292,313	
Total Net Incremental Savings (kWh/yr)	1,091,347	5,198,246	5,067,125	2,032,534	116,925	
Peak Gross Inc. Summer Demand Reduction (kW)	411	1,414	1,025	563	29	
Peak Net Inc. Summer Demand Reduction (kW)	90	325	410	225	12	
Peak Gross Inc. Winter Demand Reduction (kW)	0	3,163	1,724	1,085	59	
Peak Net Inc. Winter Demand Reduction (kW)	0	728	690	434	23	
Total Net Lifetime Savings (kWh)	479,863	4,287,618	13,251,220	25,904,979	39,404,468	168,865,294
Peak Net Lifetime Summer Demand Reduction (kW)	90	416	826	1,051	1,063	
Peak Net Lifetime Winter Demand Reduction (kW)	0	728	1,417	1,851	1,875	

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

North Carolina

Docket #: E-22, Sub 567

RESIDENTIAL HOME ENERGY ASSESSMENT

2020-2024

476 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in the North Carolina living in a single-family detached or attached residence
- Customer that is responsible for electric bill and either owns the home or is otherwise able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **75** customers, **1%** of planned participation



Achieved net annual energy savings of **35,731 kWh/year**, **1%** of planned energy savings



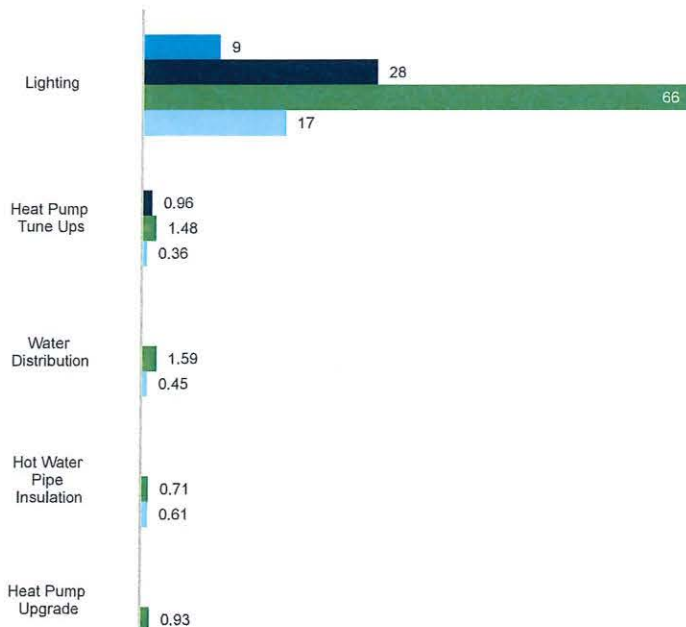
Spent **39%** of planned expenditures

Measures

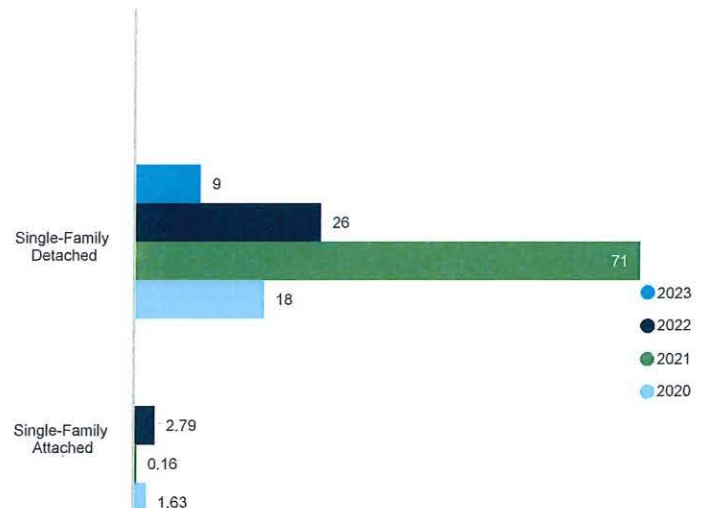
- Direct install lighting
- Cool roof
- Hot water ENERGY STAR® appliances
- Faucets aerators
- Low flow showerheads
- Heat pump tune ups
- Heat pump upgrades
- Duct sealing and duct Insulation

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	96,955	120,947	108,763	114,518	24,138	465,321
Total Program Participants (#)	17	32	18	8	0	75
Total Gross Incremental Savings (kWh/yr)	19,413	70,833	28,587	9,334	0	
Total Net Incremental Savings (kWh/yr)	4,271	16,292	11,435	3,733	0	
Peak Gross Inc. Summer Demand Reduction (kW)	1	4	2	1	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	1	1	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	10	4	2	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	2	2	1	0	
Total Net Lifetime Savings (kWh)	850	13,200	37,615	72,650	0	446,779
Peak Net Lifetime Summer Demand Reduction (kW)	0	1	2	2	0	2
Peak Net Lifetime Winter Demand Reduction (kW)	0	2	4	5	0	5

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL HOME ENERGY EVALUATION

2020-2024

1,406 kWh/yr Average Net Savings Per Participant

Eligibility

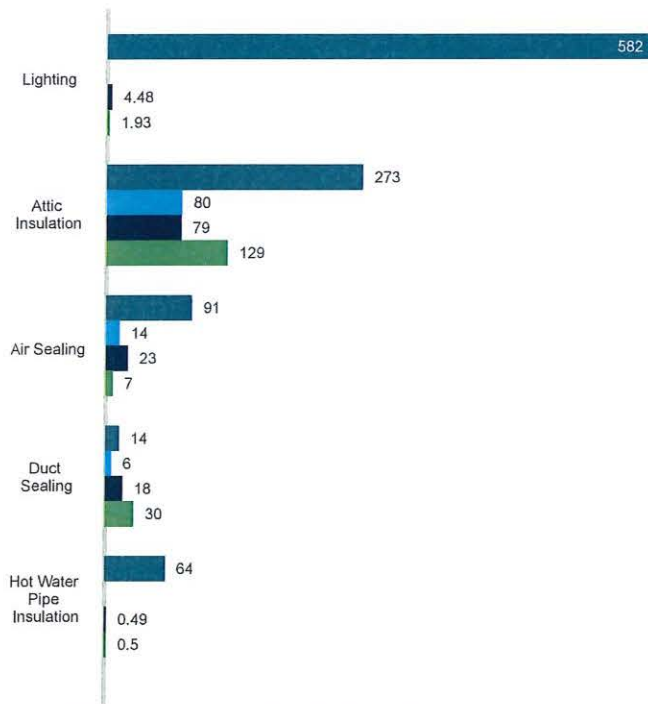
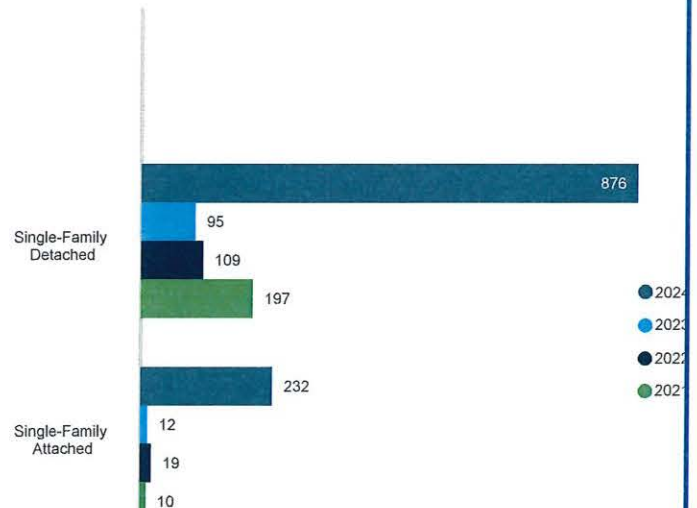
- Active residential customer in Virginia living in a single-family home or townhome
- Customer that is responsible for electric bill and either owns the home or is otherwise able to secure permission to complete measures
- Work must be completed by a participating contractor

Measures

- Air sealing
- Tune up on heat pumps or central ACs
- Heat pump or mini split upgrades
- Smart thermostat installations
- HVAC ductless unit upgrades
- Duct sealing
- Duct insulation on heat pump systems or central ACs
- Attic, wall, basement wall and crawl space insulation
- Replacement of electric water heaters with a heat pump water heaters

Enrolled **992** customers, **6%** of planned participationAchieved net annual energy savings of **1,395 MWh/year**, **5%** of planned energy savingsSpent **42%** of planned expenditures

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	56,887	865,549	852,714	904,306	2,357,397	5,036,852
Total Program Participants (#)	0	99	50	44	799	992
Total Gross Incremental Savings (kWh/yr)	0	207,565	127,675	106,684	1,108,341	
Total Net Incremental Savings (kWh/yr)	0	186,809	114,907	96,015	997,507	
Peak Gross Inc. Summer Demand Reduction (kW)	0	68	30	27	154	
Peak Net Inc. Summer Demand Reduction (kW)	0	62	27	24	138	
Peak Gross Inc. Winter Demand Reduction (kW)	0	75	44	35	416	
Peak Net Inc. Winter Demand Reduction (kW)	0	68	40	31	374	
Total Net Lifetime Savings (kWh)	0	36,593	273,208	609,221	1,426,592	21,140,324
Peak Net Lifetime Summer Demand Reduction (kW)	0	62	89	113	251	251
Peak Net Lifetime Winter Demand Reduction (kW)	0	68	107	138	513	513

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL HOME ENERGY EVALUATION

2021-2024

1,282 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia living in a single-family home or townhome
- Customer that is responsible for electric bill and either owns the home or is otherwise able to secure permission to complete measures
- Work must be completed by a participating contractor

Measures

- Air sealing
- Tune up on heat pumps or central ACs
- Heat pump or mini split upgrades
- Smart thermostat installations
- HVAC ductless unit upgrades
- Duct sealing
- Duct insulation on heat pump systems or central ACs
- Attic, wall, basement wall and crawl space insulation
- Replacement of electric water heaters with a heat pump water heaters



Enrolled **16** customers, **1%** of planned participation



Achieved net annual energy savings of **20,511 kWh/year**, **1%** of planned energy savings



Spent **36%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	35,738	48,397	50,642	120,257	255,035
Total Program Participants (#)	0	0	0	16	16
Total Gross Incremental Savings (kWh/yr)	0	0	0	22,790	
Total Net Incremental Savings (kWh/yr)	0	0	0	20,511	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	4	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	3	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	10	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	9	
Total Net Lifetime Savings (kWh)	0	0	0	6,612	259,443
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	3	3
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	9	9

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL ELECTRIC VEHICLE ENERGY EFFICIENCY

2020-2024

103 kWh/yr Average Net Savings Per Participant

Eligibility

- Residential customers in single family or detached homes
- Customers must have WiFi service and be responsible for the electric bill



Enrolled **1,175** customers, **28%** of planned participation



Achieved net annual energy savings of **121,275 kWh/year**, **8%** of planned energy savings



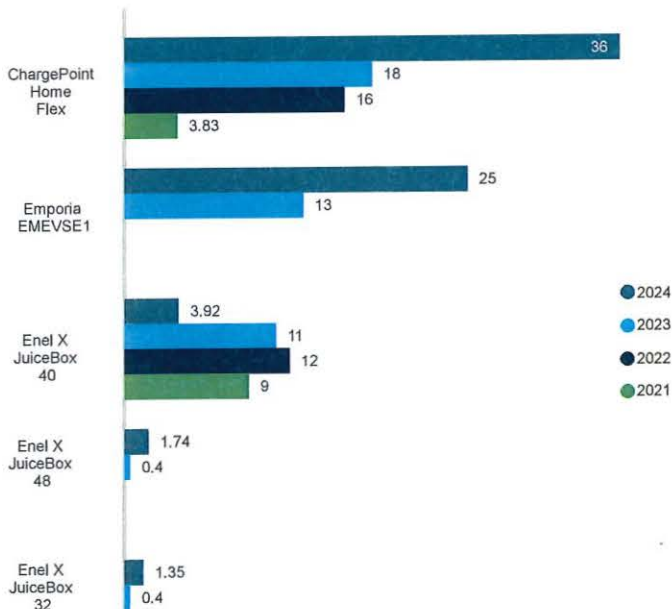
Spent **59%** of planned expenditures

Measures

- Rebate for Level 2 EV chargers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	14,517	282,385	277,166	83,768	378,033	1,035,869
Total Program Participants (#)	0	93	206	340	536	1,175
Total Gross Incremental Savings (kWh/yr)	0	12,379	27,255	43,375	68,585	
Total Net Incremental Savings (kWh/yr)	0	9,903	21,804	34,700	54,868	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	1,896	20,906	68,371	164,172	1,213,054
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	0	0	0
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0	0

TOTAL SAVINGS BY CHARGER MODEL (MWH/YR)



RESIDENTIAL KITS

2020-2024

70 kWh/yr Average Net Savings Per Participant

Eligibility

- New customer accounts in Virginia
- To receive more than the basic energy efficiency kit, customers must confirm their address and account status as well as answer a questionnaire



Enrolled **114,706** customers, **102%** of planned participation



Achieved net annual energy savings of **8,068 MWh/year**, **27%** of planned energy savings

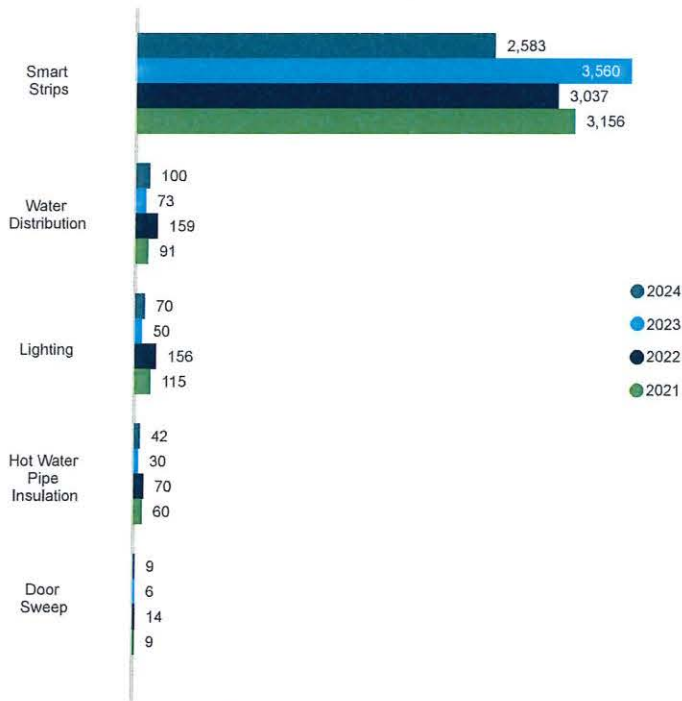


Spent **68%** of planned expenditures

Measures

- Welcome kit with a tier 1 advanced power strip and educational insert informing customers how to manage their energy use
- Low-flow showerheads
- Aerators
- Water heater pipe insulation
- LED lamps
- Door and window weather stripping, door sweeps

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	36,118	1,318,034	1,232,247	1,360,051	1,307,238	5,253,687
Total Program Participants (#)	0	28,113	26,790	31,398	28,405	114,706
Total Gross Incremental Savings (kWh/yr)	0	3,442,999	3,439,997	3,721,439	2,842,650	
Total Net Incremental Savings (kWh/yr)	0	2,065,800	2,063,998	2,232,864	1,705,590	
Peak Gross Inc. Summer Demand Reduction (kW)	0	302	301	329	256	
Peak Net Inc. Summer Demand Reduction (kW)	0	181	181	197	154	
Peak Gross Inc. Winter Demand Reduction (kW)	0	335	332	342	311	
Peak Net Inc. Winter Demand Reduction (kW)	0	201	199	205	186	
Total Net Lifetime Savings (kWh)	0	576,089	3,532,325	8,541,969	15,681,432	45,945,585
Peak Net Lifetime Summer Demand Reduction (kW)	0	181	362	560	714	714
Peak Net Lifetime Winter Demand Reduction (kW)	0	201	400	606	792	792

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)

North Carolina

Docket #: E-22, Sub 592

RESIDENTIAL KITS

2021-2024

69 kWh/yr Average Net Savings Per Participant

Eligibility

- New customer accounts in North Carolina
- To receive more than the basic energy efficiency kit, customers must confirm their address and account status as well as answer a questionnaire



Enrolled **5,991** customers, **83%** of planned participation



Achieved net annual energy savings of **413,523 kWh/year**, **22%** of planned energy savings



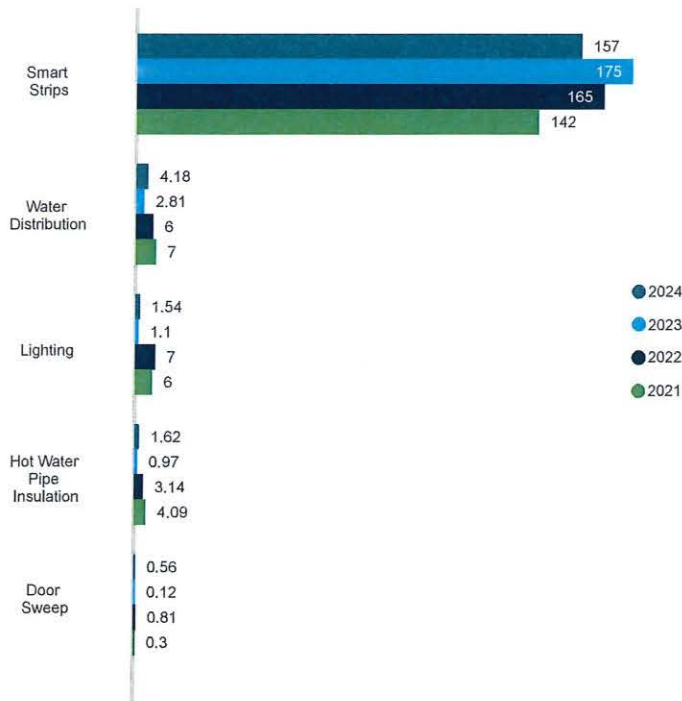
Spent **60%** of planned expenditures

Measures

- Welcome kit with a tier 1 advanced power strip and educational insert informing customers how to manage their energy use
- Low-flow showerheads
- Aerators
- Water heater pipe insulation
- LED lamps
- Door and window weather stripping, door sweeps

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	57,116	69,433	72,060	80,955	279,565
Total Program Participants (#)	1,264	1,453	1,551	1,723	5,991
Total Gross Incremental Savings (kWh/yr)	159,580	182,428	180,331	166,865	
Total Net Incremental Savings (kWh/yr)	95,748	109,457	108,199	100,119	
Peak Gross Inc. Summer Demand Reduction (kW)	14	16	16	15	
Peak Net Inc. Summer Demand Reduction (kW)	8	10	10	9	
Peak Gross Inc. Winter Demand Reduction (kW)	15	18	16	18	
Peak Net Inc. Winter Demand Reduction (kW)	9	11	10	11	
Total Net Lifetime Savings (kWh)	28,558	170,542	415,859	773,117	2,337,951
Peak Net Lifetime Summer Demand Reduction (kW)	8	18	28	37	37
Peak Net Lifetime Winter Demand Reduction (kW)	9	20	30	40	40

TOTAL SAVINGS BY MEASURE TYPE (MWH/YR)



RESIDENTIAL MANUFACTURED HOUSING

2020-2024

197 kWh/yr Average Net Savings Per Participant

Eligibility

- Customer must be a permanent resident of a manufactured home
- Customers must be responsible for the electric bill and own the residence or are able to secure permission from the owner to perform the recommended improvements



Enrolled **781** customers, **10%** of planned participation



Achieved net annual energy savings of **154,246 kWh/year**, **1%** of planned energy savings

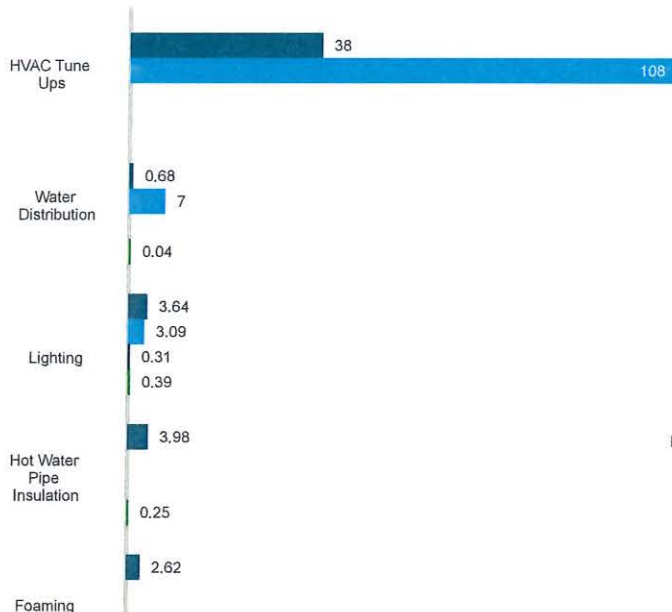
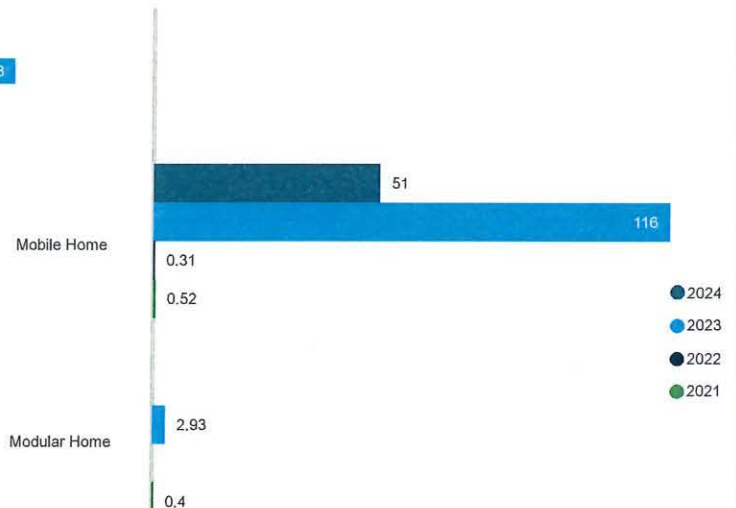


Spent **43%** of planned expenditures

Measures

- Low-flow showerheads and aerators
- Water heater pipe insulation
- LED lamp upgrades
- Door weather-stripping
- Window weather-stripping
- Door sweeps
- Outlet/switch gaskets
- Caulking
- Smart power strips
- Heat pump tune ups and upgrades
- Door and window weather stripping
- Belly board insulation

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	49,716	642,418	627,383	699,057	799,369	2,817,943
Total Program Participants (#)	0	3	3	554	221	781
Total Gross Incremental Savings (kWh/yr)	0	916	310	118,811	51,348	
Total Net Incremental Savings (kWh/yr)	0	824	279	106,930	46,213	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	45	17	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	40	15	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	51	21	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	46	19	
Total Net Lifetime Savings (kWh)	0	59	998	44,784	177,559	901,430
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	40	55	55
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	46	65	65

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL MULTIFAMILY

2020-2024

239 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia
- Customer that is responsible for electric bill and either owns the property or is otherwise able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **4,678** customers, **9%** of planned participation



Achieved net annual energy savings of **1,117 MWh/year**, **2%** of planned energy savings

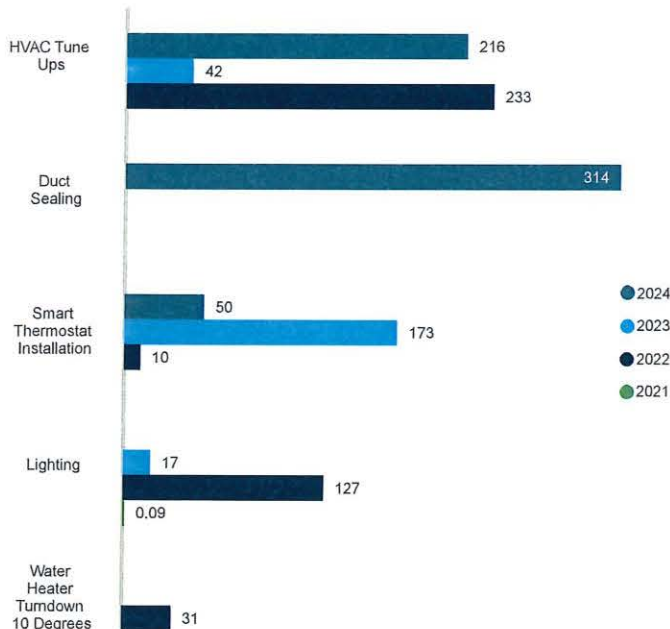


Spent **37%** of planned expenditures

Measures

- On-site energy assessment of tenant units
- Pipe insulation
- LED lamps
- HVAC tune ups
- Smart thermostats
- Air sealing, duct sealing, attic insulation
- ENERGY STAR® washers and dryers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	28,940	629,586	768,978	774,765	941,673	3,143,941
Total Program Participants (#)	0	9	1,634	1,273	1,762	4,678
Total Gross Incremental Savings (kWh/yr)	0	335	428,505	231,957	580,365	
Total Net Incremental Savings (kWh/yr)	0	301	385,655	208,761	522,328	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	107	16	198	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	96	15	178	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	169	29	258	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	152	26	233	
Total Net Lifetime Savings (kWh)	0	15	157,729	633,190	1,400,572	11,978,149
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	96	111	286	286
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	152	178	407	407

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)

RESIDENTIAL NEW CONSTRUCTION

2020-2024

2,077 kWh/yr Average Net Savings Per Participant

Eligibility

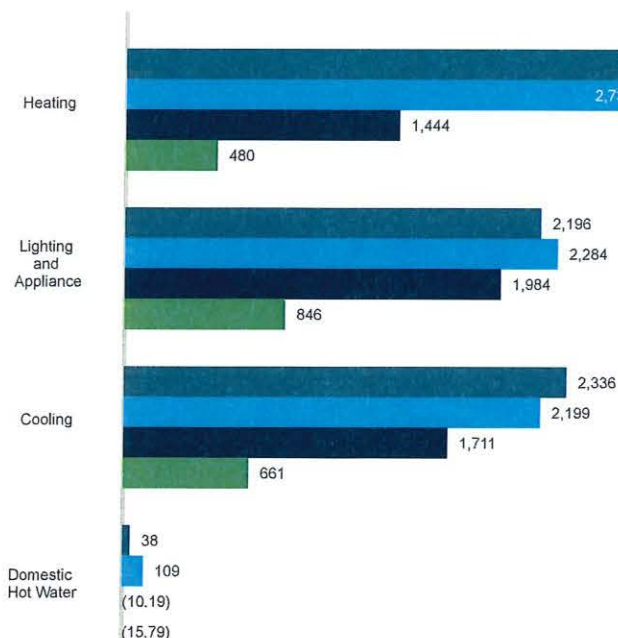
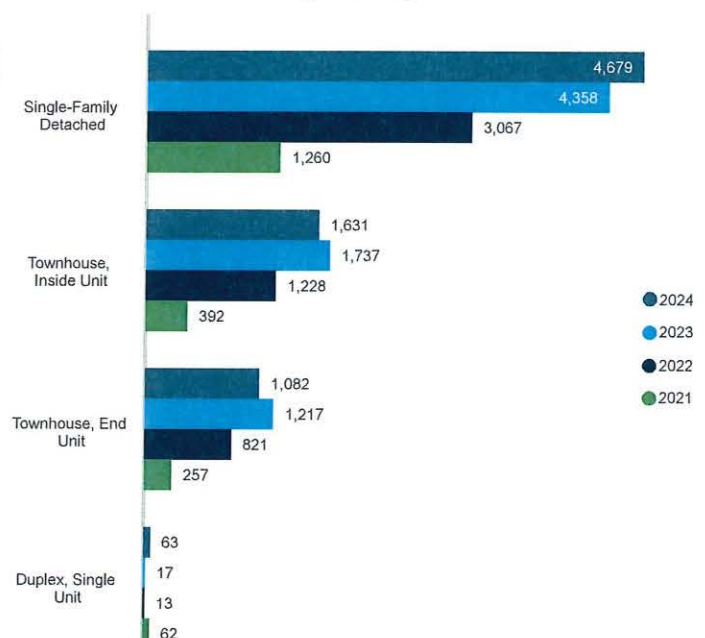
- New homes being constructed that are ENERGY STAR® certified
- Home must receive electric service on a residential rate schedule
- Incentive recipient must be the homebuilder
- Eligible homes can be single family attached, single family detached, or two-over-two condos

Measures

- Shell improvements
- HVAC performance
- Lighting and appliances
- Domestic hot water measures

Enrolled **9,168** customers, **49%** of planned participationAchieved net annual energy savings of **19,039 MWh/year**, **72%** of planned energy savingsSpent **53%** of planned expenditures

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	30,084	1,203,424	2,688,603	3,135,419	2,915,164	9,972,694
Total Program Participants (#)	0	1,018	2,560	2,925	2,665	9,168
Total Gross Incremental Savings (kWh/yr)	0	1,971,437	5,129,363	7,329,239	7,454,110	
Total Net Incremental Savings (kWh/yr)	0	1,715,150	4,462,546	6,376,438	6,485,075	
Peak Gross Inc. Summer Demand Reduction (kW)	0	883	2,285	3,004	3,156	
Peak Net Inc. Summer Demand Reduction (kW)	0	769	1,988	2,613	2,746	
Peak Gross Inc. Winter Demand Reduction (kW)	0	343	970	1,675	1,736	
Peak Net Inc. Winter Demand Reduction (kW)	0	298	844	1,458	1,510	
Total Net Lifetime Savings (kWh)	0	432,312	4,347,721	13,800,830	29,782,335	472,953,482
Peak Net Lifetime Summer Demand Reduction (kW)	0	769	2,757	5,370	8,115	8,115
Peak Net Lifetime Winter Demand Reduction (kW)	0	298	1,142	2,599	4,109	4,109

TOTAL SAVINGS BY END USE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL THERMOSTAT PURCHASE AND WEATHERSMART

2020-2024

207 kWh/yr Average Net Savings Per Participant

Eligibility

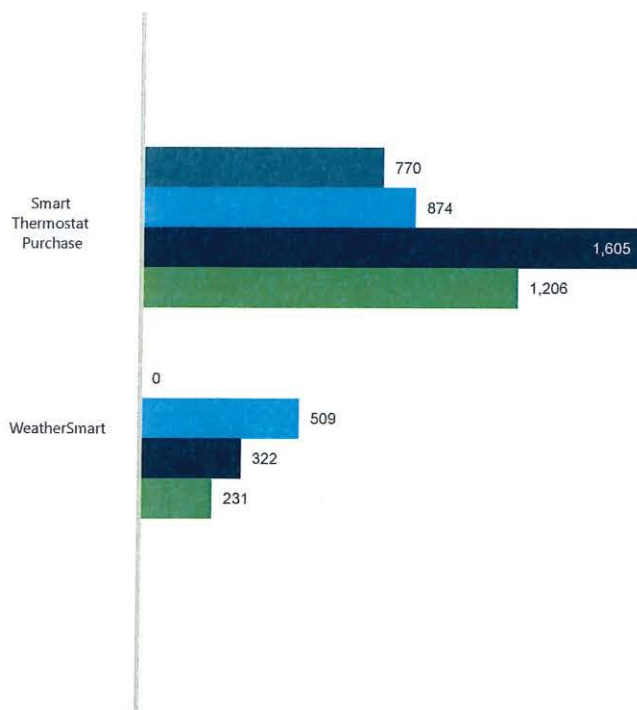
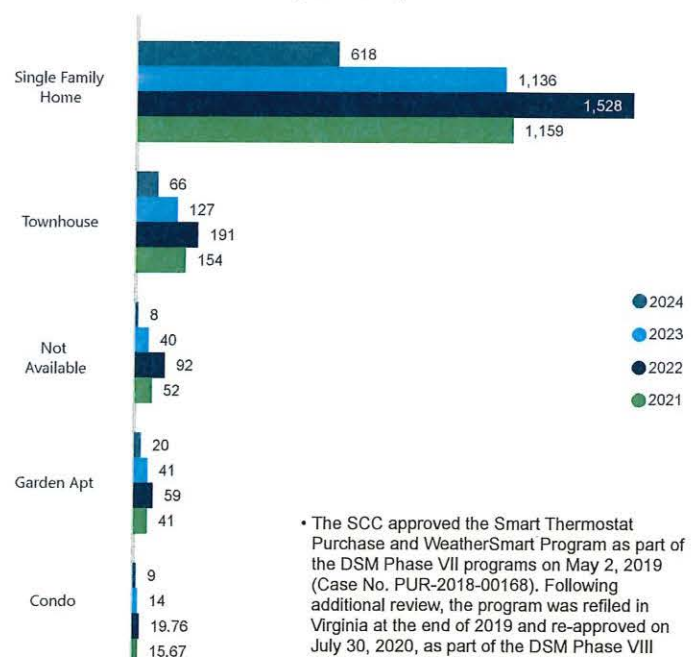
- Active residential customer in Virginia living in a single family detached, attached, or manufactured home
- Customer must be responsible for electric bill and able to secure permission to complete measures
- Customer must have a heat pump to participate in the purchase component, and may have either a central air conditioner or heat pump to participate in the WeatherSmart component

Enrolled **22,118** customers, **71%** of planned participationAchieved net annual energy savings of **4,574 MWh/year**, **35%** of planned energy savingsSpent **73%** of planned expenditures

Measures

- ENERGY STAR® certified smart thermostat
- Optimization of thermostat schedule and set points
- Monthly report with personalized energy-saving tips

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	99,671	1,002,656	1,146,575	660,213	755,038	3,664,154
Total Program Participants (#)	0	5,329	7,643	6,388	2,758	22,118
Total Gross Incremental Savings (kWh/yr)	0	1,437,623	1,927,099	1,383,323	769,867	
Total Net Incremental Savings (kWh/yr)	0	1,184,808	1,589,949	1,183,002	615,894	
Peak Gross Inc. Summer Demand Reduction (kW)	0	226	306	558	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	215	291	530	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	42	61	76	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	40	58	72	0	
Total Net Lifetime Savings (kWh)	0	473,344	2,334,519	5,367,716	8,877,660	28,185,842
Peak Net Lifetime Summer Demand Reduction (kW)	0	215	291	530	530	530
Peak Net Lifetime Winter Demand Reduction (kW)	0	40	58	72	72	72

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

• The SCC approved the Smart Thermostat Purchase and WeatherSmart Program as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). Following additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020, as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.

RESIDENTIAL THERMOSTAT PURCHASE AND WEATHERSMART

2021-2024

248 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in North Carolina living in a single family detached, attached, or manufactured home
- Customer must be responsible for electric bill and able to secure permission to complete measures
- Customer must have a heat pump to participate in the purchase component, and may have either a central air conditioner or heat pump to participate in the WeatherSmart component



Enrolled **658** customers, **33%** of planned participation



Achieved net annual energy savings of **163,415 kWh/year**, **20%** of planned energy savings



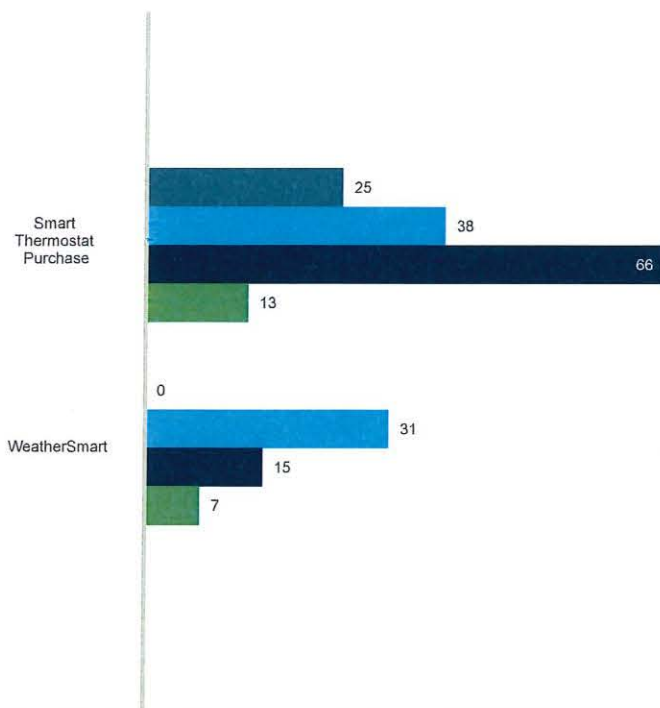
Spent **44%** of planned expenditures

Measures

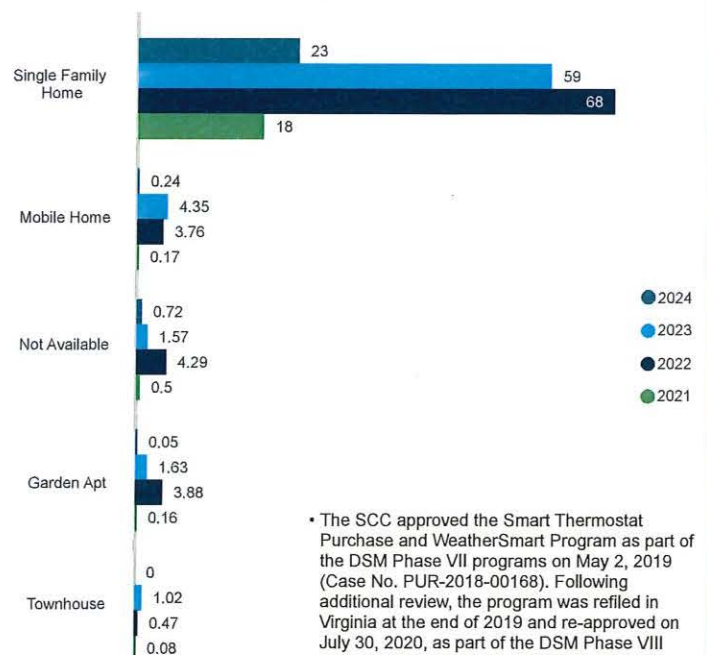
- ENERGY STAR® certified smart thermostat
- Optimization of thermostat schedule and set points
- Monthly report with personalized energy-saving tips

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	19,202	50,894	31,196	34,093	135,385
Total Program Participants (#)	71	265	230	92	658
Total Gross Incremental Savings (kWh/yr)	19,412	80,592	69,185	25,240	
Total Net Incremental Savings (kWh/yr)	16,560	66,658	60,004	20,192	
Peak Gross Inc. Summer Demand Reduction (kW)	9	16	40	0	
Peak Net Inc. Summer Demand Reduction (kW)	8	16	38	0	
Peak Gross Inc. Winter Demand Reduction (kW)	1	2	3	0	
Peak Net Inc. Winter Demand Reduction (kW)	1	2	3	0	
Total Net Lifetime Savings (kWh)	5,121	45,866	149,380	271,105	919,072
Peak Net Lifetime Summer Demand Reduction (kW)	8	16	38	38	38
Peak Net Lifetime Winter Demand Reduction (kW)	1	2	3	3	3

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



• The SCC approved the Smart Thermostat Purchase and WeatherSmart Program as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). Following additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020, as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.

RESIDENTIAL SMART HOME

2021-2024

344 kWh/yr Average Net Savings Per Participant

Eligibility

- Residential customers in Virginia
- Cannot participate in DSM Phase VIII Residential Smart Thermostat (EE) Program
- Customer must be responsible for the electric bill and either own the residence or secure permission from the owner



Enrolled **303** customers, **1%** of planned participation



Achieved net annual energy savings of **104,359 kWh/year**, **0.41%** of planned energy savings

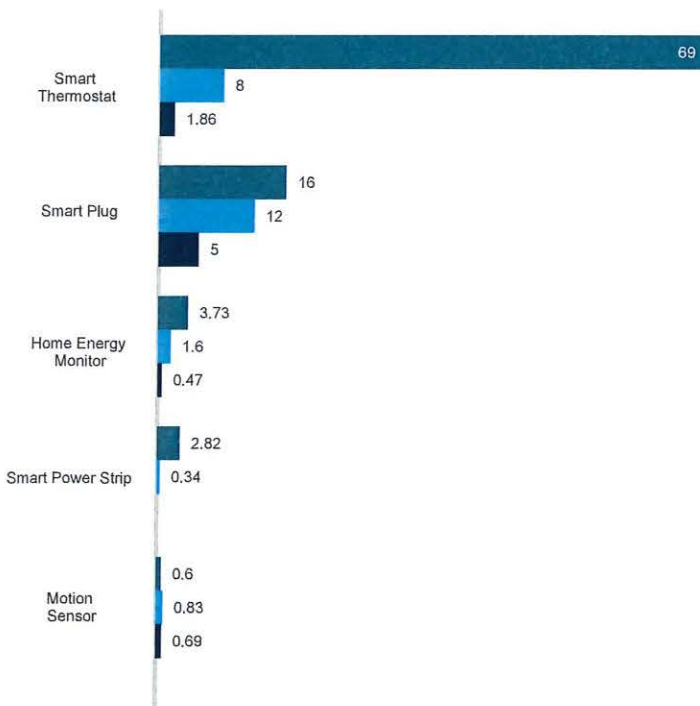
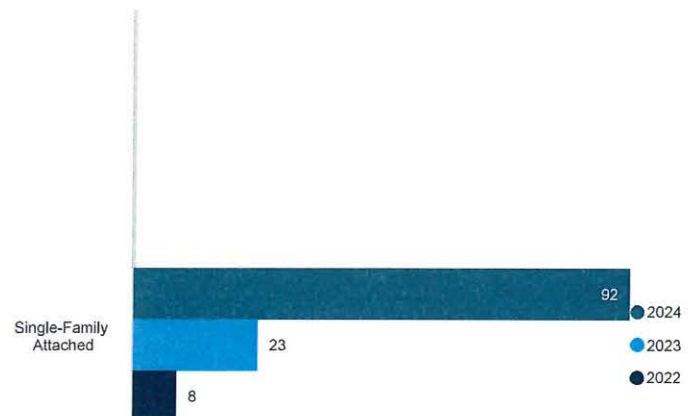


Spent **26%** of planned expenditures

Measures

- Smart plugs
- Connected 9.5 W ENERGY STAR LED lamps
- A19 Wi-Fi 8.8W color lamps (60W equivalent)
- Downlight 7.2W BR30 color lamps (65W equivalent)
- Smart home energy monitor (with solar option)
- Smart thermostat with voice control and temperature / humidity sensor

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	9,058	720,794	586,023	549,394	1,865,270
Total Program Participants (#)	0	15	47	241	303
Total Gross Incremental Savings (kWh/yr)	0	8,087	22,616	92,073	
Total Net Incremental Savings (kWh/yr)	0	6,874	19,224	78,262	
Peak Gross Inc. Summer Demand Reduction (kW)	0	1	1	3	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	1	2	
Peak Gross Inc. Winter Demand Reduction (kW)	0	3	1	3	
Peak Net Inc. Winter Demand Reduction (kW)	0	2	1	2	
Total Net Lifetime Savings (kWh)	0	1,499	16,552	104,257	1,187,185
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	1	4	4
Peak Net Lifetime Winter Demand Reduction (kW)	0	2	3	6	6

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL SMART HOME

2022-2024

427 kWh/yr Average Net Savings Per Participant

Eligibility

- Residential customers in North Carolina
- Cannot participate in DSM Phase VII Residential Smart Thermostat (EE) Program
- Customer must be responsible for the electric bill and either own the residence or secure permission from the owner



Enrolled **11** customers, **1%** of planned participation



Achieved net annual energy savings of **4,697 kWh/year, 0.29%** of planned energy savings



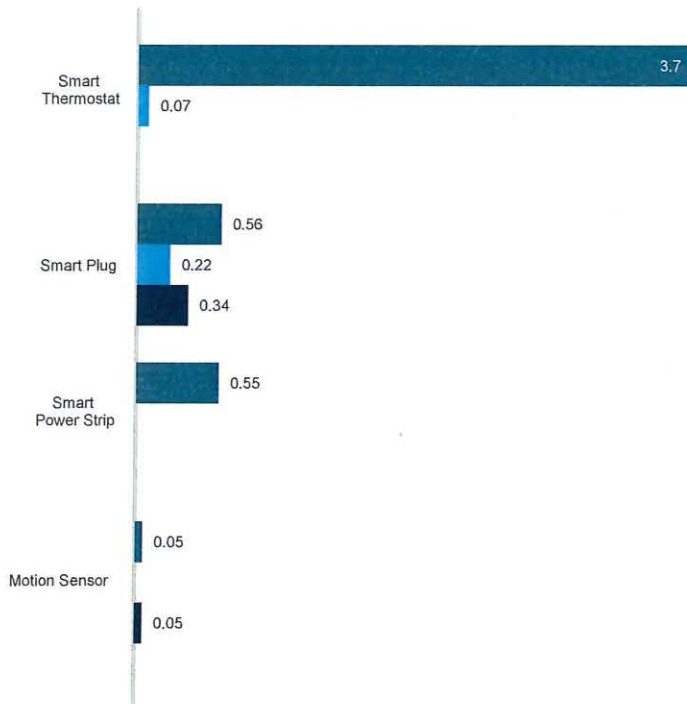
Spent **25%** of planned expenditures

Measures

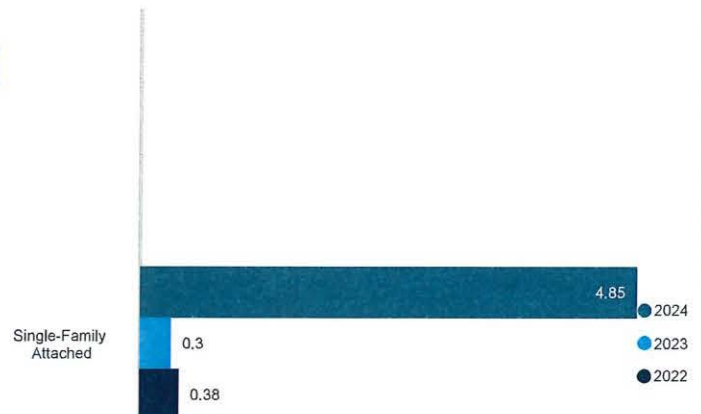
- Smart plugs
- Connected 9.5 W ENERGY STAR LED lamps
- A19 Wi-Fi 8.8W color lamps (60W equivalent)
- Downlight 7.2W BR30 color lamps (65W equivalent)
- Smart home energy monitor (with solar option)
- Smart thermostat with voice control and temperature / humidity sensor

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	16,505	35,651	32,988	85,144
Total Program Participants (#)	1	1	9	11
Total Gross Incremental Savings (kWh/yr)	383	295	4,848	
Total Net Incremental Savings (kWh/yr)	326	251	4,121	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	
Total Net Lifetime Savings (kWh)	36	399	3,046	32,165
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	0
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL VIRTUAL ENERGY AUDIT

2021-2024

471 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in Virginia
- Customer that is responsible for electric bill and either own the home or is otherwise able to secure permission and authorization to complete the rebate submission



Enrolled **29,877** customers, **21%** of planned participation



Achieved net annual energy savings of **14,084 MWh/year**, **32%** of planned energy savings

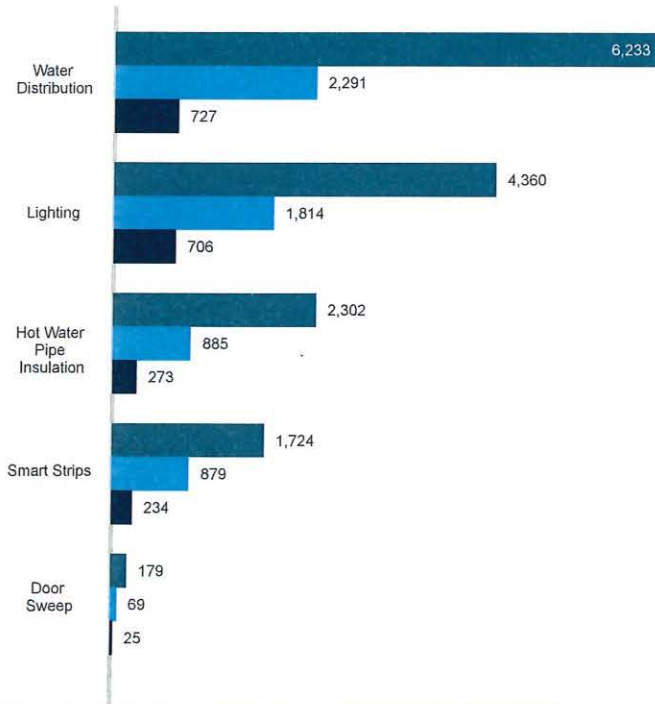
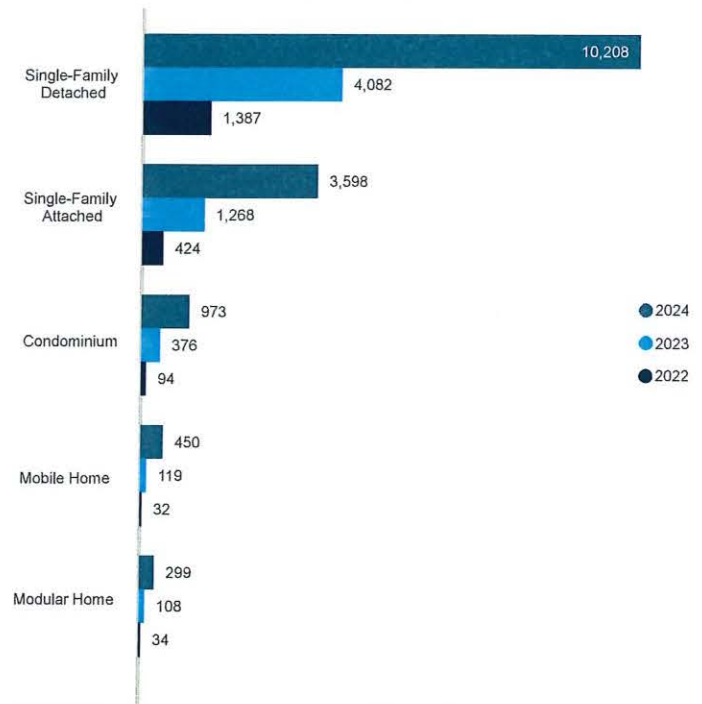


Spent **48%** of planned expenditures

Measures

- Low-flow showerheads and aerators
- Water heat pipe insulation
- Window weatherstripping
- Outlet / Switch gaskets
- Smart strip
- LED lamp upgrades
- Door weatherstripping
- Door sweep
- Caulking

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	4,465	665,100	1,496,704	2,915,151	5,081,421
Total Program Participants (#)	0	2,149	8,044	19,684	29,877
Total Gross Incremental Savings (kWh/yr)	0	1,972,641	5,960,092	15,540,876	
Total Net Incremental Savings (kWh/yr)	0	1,183,584	3,576,055	9,324,526	
Peak Gross Inc. Summer Demand Reduction (kW)	0	164	574	1,516	
Peak Net Inc. Summer Demand Reduction (kW)	0	98	344	909	
Peak Gross Inc. Winter Demand Reduction (kW)	0	269	942	3,132	
Peak Net Inc. Winter Demand Reduction (kW)	0	162	565	1,879	
Total Net Lifetime Savings (kWh)	0	360,156	2,930,413	12,818,618	137,726,998
Peak Net Lifetime Summer Demand Reduction (kW)	0	98	443	1,352	1,352
Peak Net Lifetime Winter Demand Reduction (kW)	0	162	727	2,606	2,606

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL VIRTUAL ENERGY AUDIT

2022-2024

574 kWh/yr Average Net Savings Per Participant

Eligibility

- Active residential customer in North Carolina
- Customer that is responsible for electric bill and either own the home or is otherwise able to secure permission and authorization to complete the rebate submission



Enrolled **1,431** customers, **15%** of planned participation



Achieved net annual energy savings of **820,683 kWh/year**, **30%** of planned energy savings



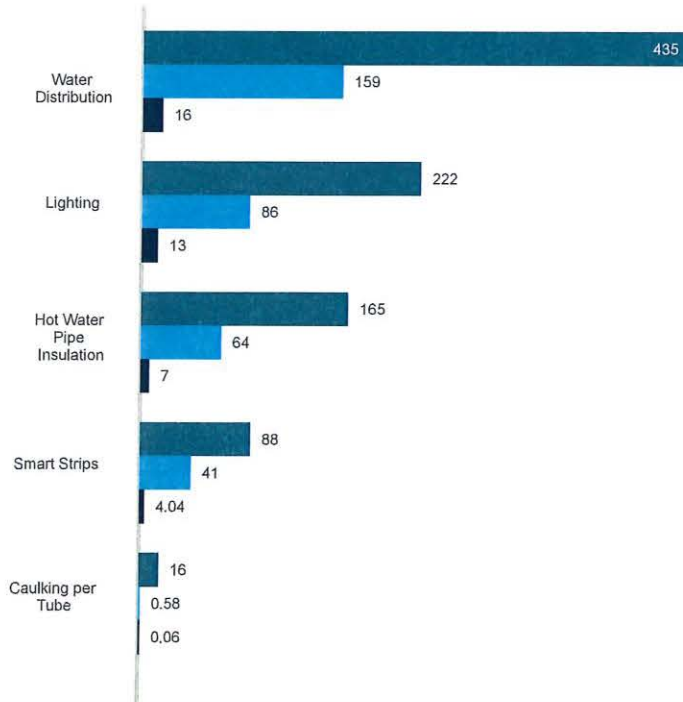
Spent **56%** of planned expenditures

Measures

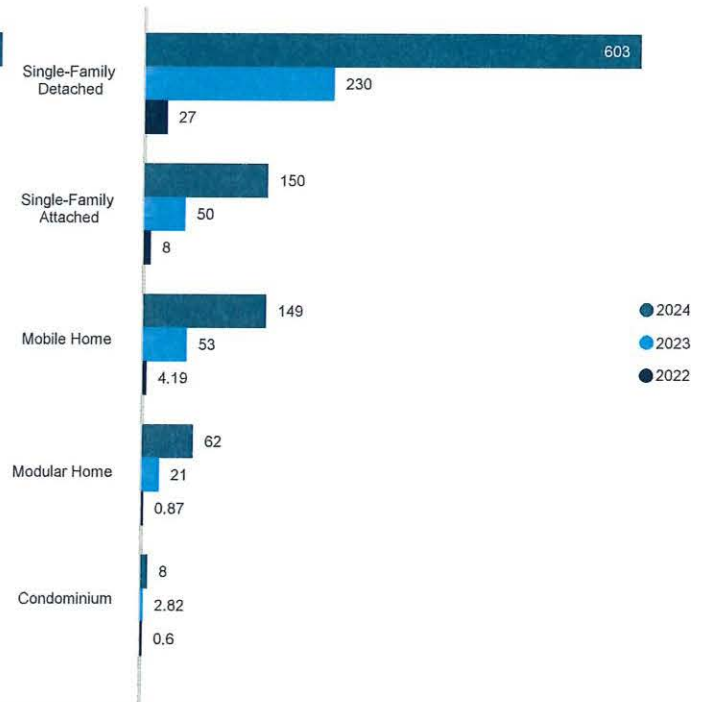
- Low-flow showerheads and aerators
- Water heat pipe insulation
- Window weatherstripping
- Outlet / Switch gaskets
- Smart strip
- LED lamp upgrades
- Door weatherstripping
- Door sweep
- Caulking

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	15,492	85,520	167,439	268,451
Total Program Participants (#)	39	377	1,015	1,431
Total Gross Incremental Savings (kWh/yr)	40,749	355,820	971,236	
Total Net Incremental Savings (kWh/yr)	24,450	213,492	582,741	
Peak Gross Inc. Summer Demand Reduction (kW)	3	34	99	
Peak Net Inc. Summer Demand Reduction (kW)	2	20	60	
Peak Gross Inc. Winter Demand Reduction (kW)	6	52	189	
Peak Net Inc. Winter Demand Reduction (kW)	3	31	113	
Total Net Lifetime Savings (kWh)	7,867	94,143	678,837	8,181,128
Peak Net Lifetime Summer Demand Reduction (kW)	2	22	82	82
Peak Net Lifetime Winter Demand Reduction (kW)	3	35	148	148

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL WATER SAVINGS

2021-2024

1,259 kWh/yr Average Net Savings Per Participant

Eligibility

- Residential customers in Virginia who reside in single-family homes
- Customer must be responsible for the electric bill and either own the residence or are able to secure permission from the owner to perform the recommended improvements



Enrolled **905** customers, **15%** of planned participation



Achieved net annual energy savings of **1,139 MWh/year**, **9%** of planned energy savings

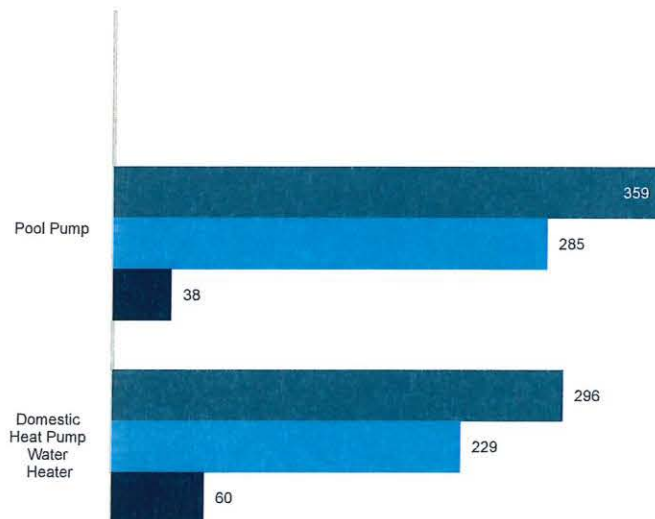
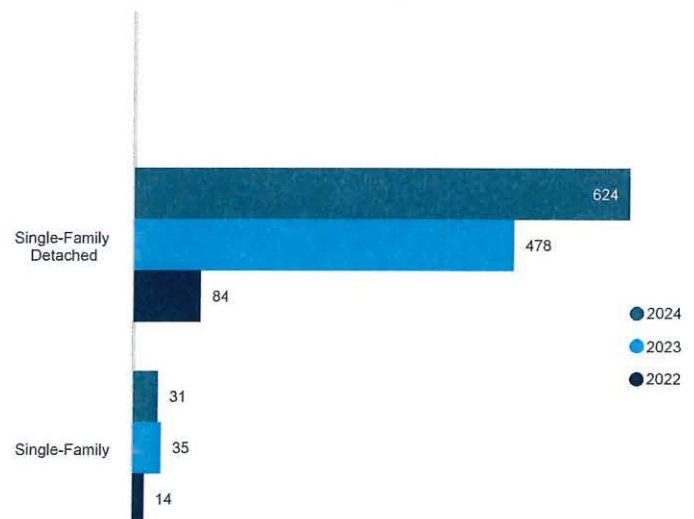


Spent **28%** of planned expenditures

Measures

- Domestic Heat Pump Water Heater
- Variable Speed Pool Pumps

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	10,197	256,790	347,383	378,980	993,349
Total Program Participants (#)	0	62	368	475	905
Total Gross Incremental Savings (kWh/yr)	0	97,694	513,620	654,767	
Total Net Incremental Savings (kWh/yr)	0	87,925	462,258	589,291	
Peak Gross Inc. Summer Demand Reduction (kW)	0	12	89	112	
Peak Net Inc. Summer Demand Reduction (kW)	0	11	80	101	
Peak Gross Inc. Winter Demand Reduction (kW)	0	16	103	131	
Peak Net Inc. Winter Demand Reduction (kW)	0	14	92	118	
Total Net Lifetime Savings (kWh)	0	11,877	328,696	1,203,594	12,975,974
Peak Net Lifetime Summer Demand Reduction (kW)	0	11	91	192	192
Peak Net Lifetime Winter Demand Reduction (kW)	0	14	106	224	224

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL WATER SAVINGS

2022-2024

1,261 kWh/yr Average Net Savings Per Participant

Eligibility

- Residential customers in North Carolina who reside in single-family homes
- Customer must be responsible for the electric bill and either own the residence or are able to secure permission from the owner to perform the recommended improvements



Enrolled **35** customers, **9%** of planned participation



Achieved net annual energy savings of **44,146 kWh/year**, **6%** of planned energy savings



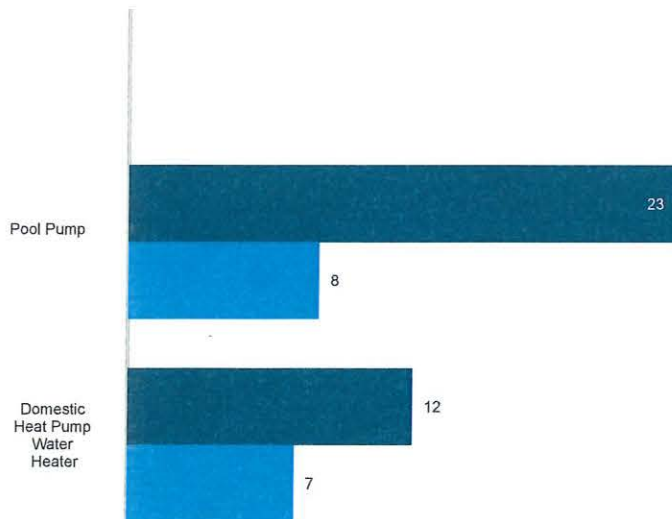
Spent **23%** of planned expenditures

Measures

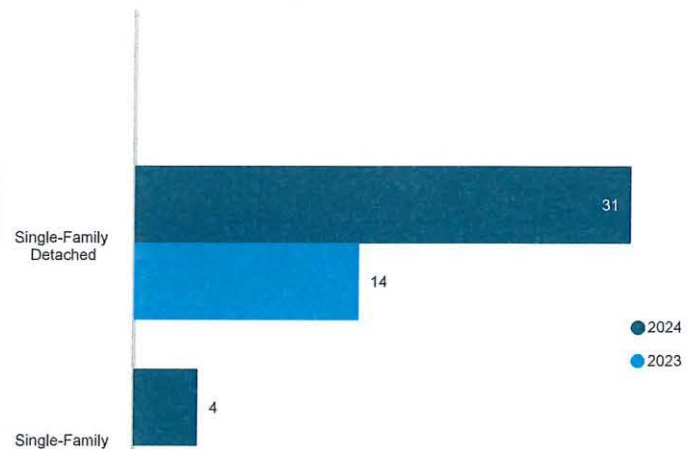
- Domestic Heat Pump Water Heater
- Variable Speed Pool Pumps

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	5,048	16,481	20,479	42,008
Total Program Participants (#)	0	11	24	35
Total Gross Incremental Savings (kWh/yr)	0	14,129	34,922	
Total Net Incremental Savings (kWh/yr)	0	12,716	31,430	
Peak Gross Inc. Summer Demand Reduction (kW)	0	3	7	
Peak Net Inc. Summer Demand Reduction (kW)	0	2	6	
Peak Gross Inc. Winter Demand Reduction (kW)	0	3	7	
Peak Net Inc. Winter Demand Reduction (kW)	0	3	7	
Total Net Lifetime Savings (kWh)	0	4,397	34,468	491,263
Peak Net Lifetime Summer Demand Reduction (kW)	0	2	8	8
Peak Net Lifetime Winter Demand Reduction (kW)	0	3	9	9

TOTAL SAVING BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL CUSTOMER ENGAGEMENT (EXTENSION)

2023-2024

79 kWh/yr Average Net Savings Per Participant

Eligibility

- Report recipients are selected to participate using a randomized control trial (RCT) experimental design



Enrolled **227,725** customers, **86%** of planned participation

Measures

- Monthly digital and paper home energy reports



Achieved net annual energy savings of **17,933 MWh/year**, **46%** of planned energy savings



Spent **89%** of planned expenditures

Category	2023	2024	Lifetime
Total Program Cost (\$)	7,570	1,692,625	1,700,194
Total Program Participants (#)	0	227,725	227,725
Total Gross Incremental Savings (kWh/yr)	0	17,932,934	
Total Net Incremental Savings (kWh/yr)	0	17,932,934	
Peak Gross Inc. Summer Demand Reduction (kW)	0	9,838	
Peak Net Inc. Summer Demand Reduction (kW)	0	9,838	
Peak Gross Inc. Winter Demand Reduction (kW)	0	2,459	
Peak Net Inc. Winter Demand Reduction (kW)	0	2,459	
Total Net Lifetime Savings (kWh)	0	11,796,333	18,185,153
Peak Net Lifetime Summer Demand Reduction (kW)	0	9,838	9,838
Peak Net Lifetime Winter Demand Reduction (kW)	0	2,459	2,459


3
ENERGY EFFICIENCY – INCOME AND AGE QUALIFIED
Table 3-1. Active Income and Age Qualifying energy efficiency programs in 2024

DSM Phase	Acronym	Program	VA	NC
IX	EALS	Residential Income and Age Qualifying Solar	✓	
	EAL4	Residential Income and Age Qualifying Energy Efficiency	✓	✓
X	RLMI	Residential Income and Age Qualifying Target Report	✓	
XI	RLIB	Residential Income and Age Qualifying Bundle	✓	✓
	CLIB	Non-Residential Income and Age Qualifying Bundle	✓	

Figure 3-1 and Figure 3-2 show the cumulative count of Income and Age Qualifying program participation and net annualized energy savings in the two states, for the active programs, at the zip code level, through December 31, 2024. The deeper the color, the greater the participation and net annualized energy savings.

Figure 3-1. Virginia and North Carolina Income and Age Qualifying program participation, by zip code

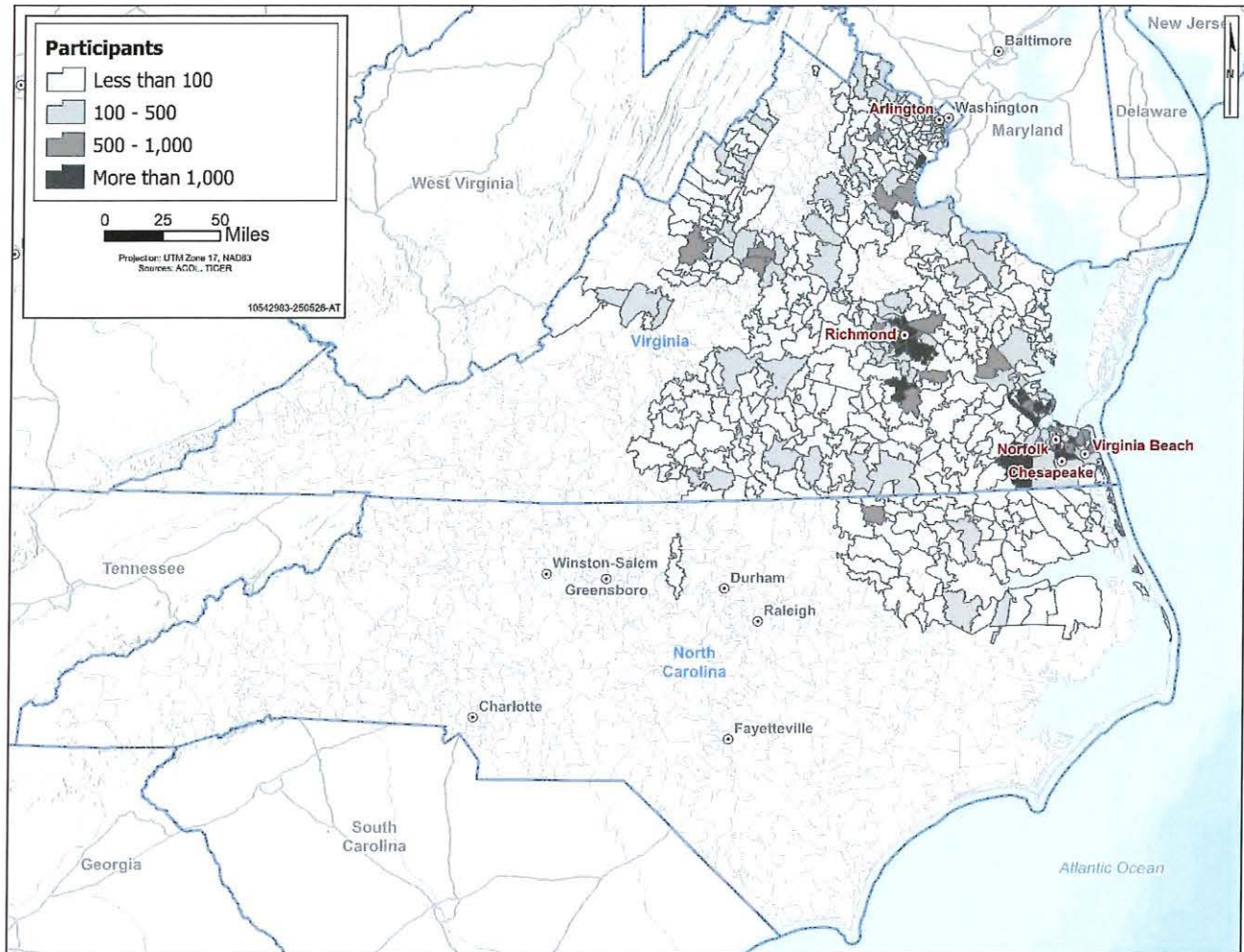
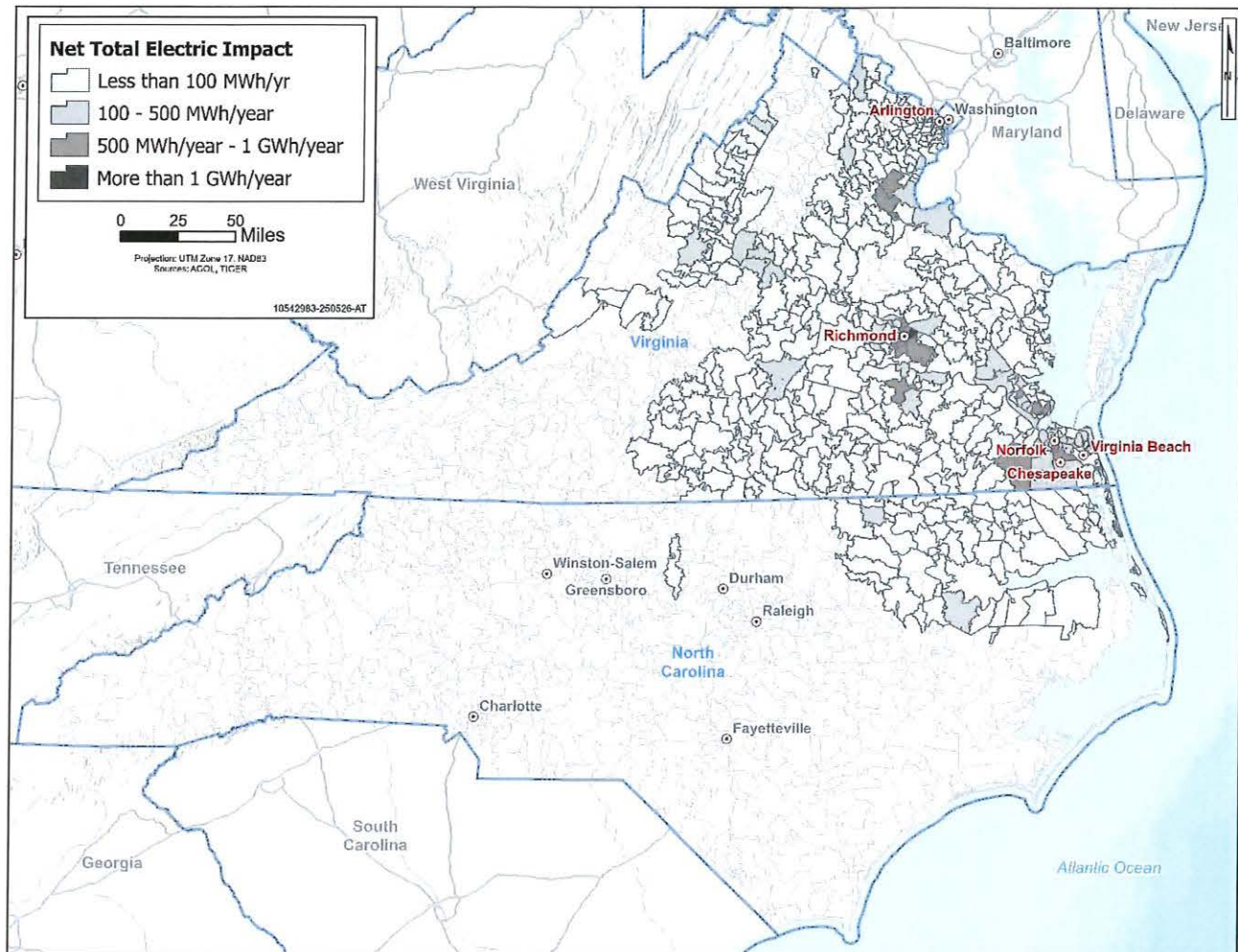


Figure 3-2. Virginia and North Carolina Income and Age Qualifying program net annualized energy savings, by zip code



RESIDENTIAL INCOME AND AGE QUALIFYING SOLAR

2021-2024

4,726 kWh/yr Average Net Savings Per Participant

Eligibility

- Program participants must meet certain income, age, or disability requirements
- Program participants must have participated in a Dominion income and age qualifying program



Enrolled **538** customers, **32%** of planned participation



Achieved net annual energy savings of **2,542 MWh/year**, **42%** of planned energy savings



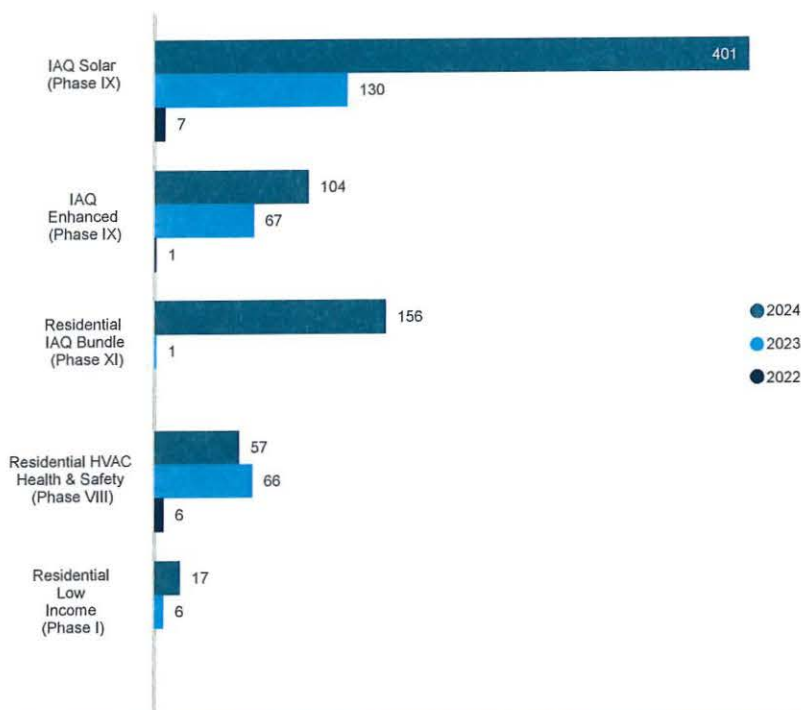
Spent **60%** of planned expenditures

Measures

- Installation of solar photovoltaic panels mounted on the roof of the residence or on a pole on the customer's property

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	10,963	196,159	4,633,026	13,784,347	18,624,496
Total Program Participants (#)	0	7	130	401	538
Total Gross Incremental Savings (kWh/yr)	0	34,559	822,872	2,320,497	
Total Net Incremental Savings (kWh/yr)	0	27,647	658,298	1,856,398	
Peak Gross Inc. Summer Demand Reduction (kW)	0	12	296	836	
Peak Net Inc. Summer Demand Reduction (kW)	0	10	237	668	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	1,828	315,406	1,547,340	62,250,345
Peak Net Lifetime Summer Demand Reduction (kW)	0	10	247	915	915
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0

NUMBER OF PARTICIPANTS BY IAQ PROGRAM



RESIDENTIAL INCOME AND AGE QUALIFYING ENERGY EFFICIENCY

2021-2024

579 kWh/yr Average Net Savings Per Participant

Eligibility

- Income qualifying customers must have an income \leq 60% of Virginia median income
- Age qualifying residential customers must be \geq 60 years of age and have an income \leq 120% of Virginia median income
- Qualified individuals must live in single-family homes, multifamily homes, or mobile homes

Measures

- LED lamps
- Energy-saving showerheads
- Faucet aerators
- Pipe or Water Tank wrap insulation
- Added attic or floor insulation
- Air or Duct sealing
- AC or Heat Pipe Tune-up
- Health and Safety measures
- Refrigeration



Enrolled **9,938** customers, **51%** of planned participation

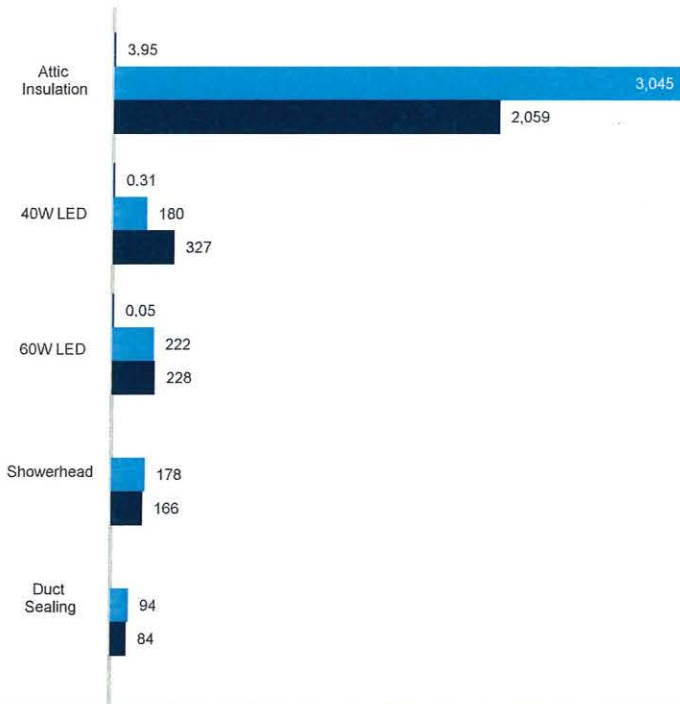
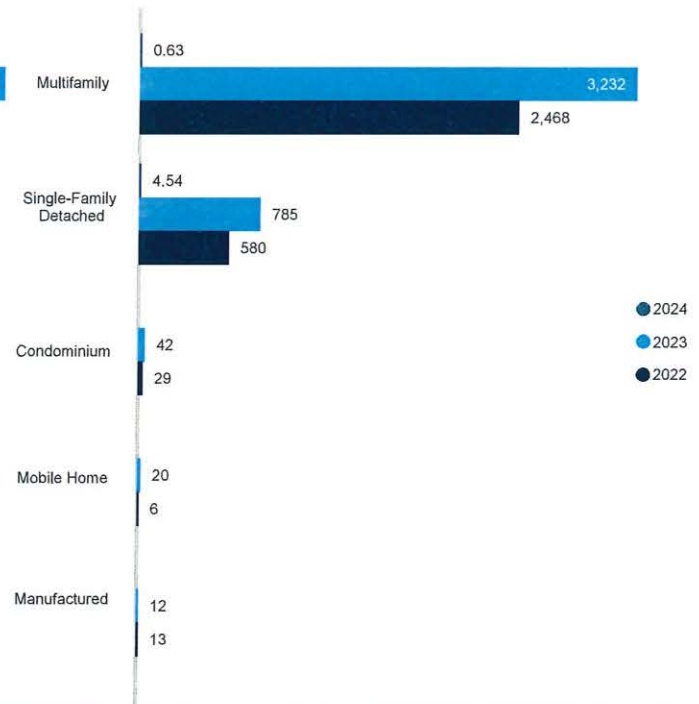


Achieved net annual energy savings of **5,753 MWh/year**, **560%** of planned energy savings



Spent **95%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	15,696	5,853,130	8,094,395	82,328	14,045,549
Total Program Participants (#)	0	4,782	5,151	5	9,938
Total Gross Incremental Savings (kWh/yr)	0	3,096,191	4,090,052	5,169	
Total Net Incremental Savings (kWh/yr)	0	2,476,953	3,272,042	4,135	
Peak Gross Inc. Summer Demand Reduction (kW)	0	689	1,139	2	
Peak Net Inc. Summer Demand Reduction (kW)	0	551	912	1	
Peak Gross Inc. Winter Demand Reduction (kW)	0	1,714	2,258	3	
Peak Net Inc. Winter Demand Reduction (kW)	0	1,371	1,806	2	
Total Net Lifetime Savings (kWh)	0	873,711	4,510,426	10,261,561	124,159,225
Peak Net Lifetime Summer Demand Reduction (kW)	0	551	1,463	1,464	1,464
Peak Net Lifetime Winter Demand Reduction (kW)	0	1,371	3,177	3,180	3,180

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

North Carolina

Docket #: E-22, Sub 608

RESIDENTIAL INCOME AND AGE QUALIFYING ENERGY EFFICIENCY

2022-2024

1,565 kWh/yr Average Net Savings Per Participant

Eligibility

- Customer must have a total household income of < 200% of federal poverty guidelines, or be receiving assistance payments under the Work First or Supplemental Security Income Programs; or
- Customer is ≥ 60 years with a total household income ≤ 250% of the federal poverty guidelines

Measures

- LED lamps
- Energy-saving showerheads
- Faucet aerators
- Pipe or Water Tank wrap insulation
- Added attic or floor insulation
- Air or Duct sealing
- AC or Heat Pipe Tune-up
- Health and Safety measures
- Refrigeration



Enrolled **45** customers, **4%** of planned participation



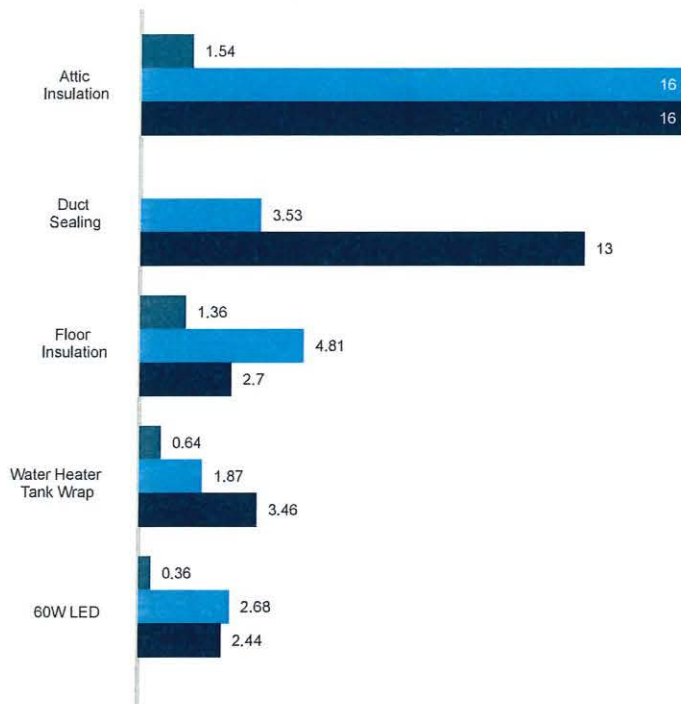
Achieved net annual energy savings of **70,436 kWh/year**, **107%** of planned energy savings



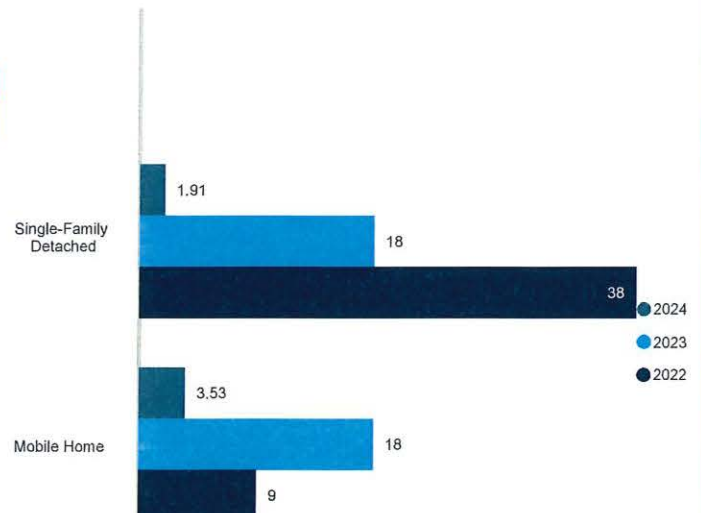
Spent **37%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	141,404	116,007	25,387	282,798
Total Program Participants (#)	26	14	5	45
Total Gross Incremental Savings (kWh/yr)	47,257	35,341	5,447	
Total Net Incremental Savings (kWh/yr)	37,806	28,273	4,357	
Peak Gross Inc. Summer Demand Reduction (kW)	16	8	1	
Peak Net Inc. Summer Demand Reduction (kW)	12	6	1	
Peak Gross Inc. Winter Demand Reduction (kW)	27	24	4	
Peak Net Inc. Winter Demand Reduction (kW)	21	19	3	
Total Net Lifetime Savings (kWh)	15,757	68,706	137,663	1,365,742
Peak Net Lifetime Summer Demand Reduction (kW)	12	19	19	19
Peak Net Lifetime Winter Demand Reduction (kW)	21	41	44	44

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



RESIDENTIAL INCOME AND AGE QUALIFYING TARGET REPORT

2022-2024

0 kWh/yr Average Net Savings Per Participant

Eligibility

- Income and age qualifying report recipients are selected to participate using a randomized control trial (RCT) experimental design



Enrolled **25,335** customers, **362%** of planned participation

Measures

- Monthly digital and paper energy reports
- Incentives for verified energy savings



Achieved net annual energy savings of **0 kWh/year**, **0%** of planned energy savings



Spent **79%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	3,487	907,894	1,216,906	2,128,288
Total Program Participants (#)	0	0	25,335	25,335
Total Gross Incremental Savings (kWh/yr)	0	0	0	
Total Net Incremental Savings (kWh/yr)	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	0
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	0
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0

RESIDENTIAL INCOME AND AGE QUALIFYING BUNDLE

2023-2024

1,078 kWh/yr Average Net Savings Per Participant

Eligibility

- Income qualifying customers must have an income \leq 60% of Virginia median income, or 80% of the Local Area median Income, whichever is greater
- Age qualifying residential customers must be \geq 60 years of age and have an income \leq 120% of Virginia median income
- Qualified individuals must live in single-family homes, multifamily dwellings, or mobile homes

Measures

- HVAC tune-up and upgrades
- Thermostat replacements
- Air and duct sealing
- Building insulation
- Window film and replacements
- HP water heaters
- Pipe and water tank wrap insulation
- Faucet aerators
- Showerheads
- LED lamps
- Clothes dryers and washers
- Dishwashers
- Health and safety measures



Enrolled **3,397** customers, **26%** of planned participation

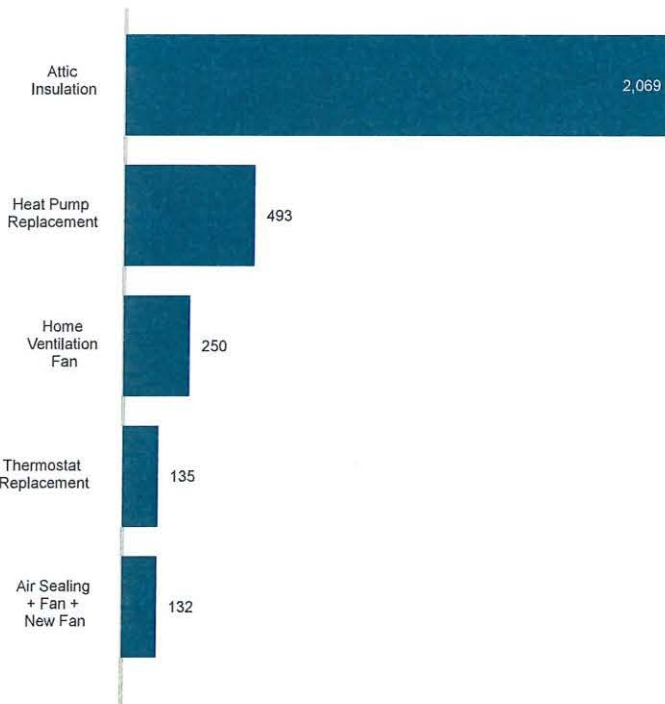
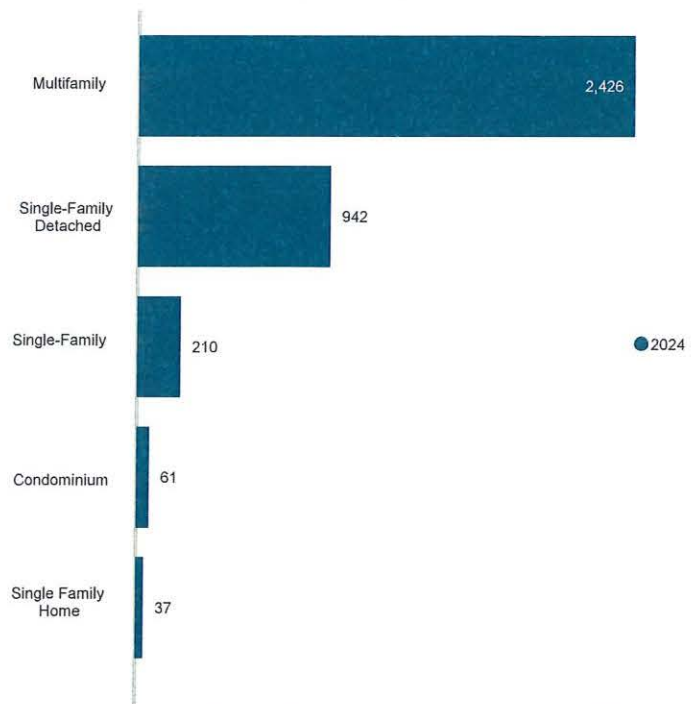


Achieved net annual energy savings of **3,661 MWh/year**, **266%** of planned energy savings



Spent **105%** of planned expenditures

Category	2023	2024	Lifetime
Total Program Cost (\$)	4,378	18,281,016	18,285,395
Total Program Participants (#)	0	3,397	3,397
Total Gross Incremental Savings (kWh/yr)	0	3,697,837	
Total Net Incremental Savings (kWh/yr)	0	3,660,859	
Peak Gross Inc. Summer Demand Reduction (kW)	0	836	
Peak Net Inc. Summer Demand Reduction (kW)	0	828	
Peak Gross Inc. Winter Demand Reduction (kW)	0	2,093	
Peak Net Inc. Winter Demand Reduction (kW)	0	2,072	
Total Net Lifetime Savings (kWh)	0	1,511,470	73,953,373
Peak Net Lifetime Summer Demand Reduction (kW)	0	828	828
Peak Net Lifetime Winter Demand Reduction (kW)	0	2,072	2,072

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

RESIDENTIAL INCOME AND AGE QUALIFYING BUNDLE

2024

1,511 kWh/yr Average Net Savings Per Participant

Eligibility

- Customer must have a total household income of < 200% of federal poverty guidelines
- Customer is ≥ 60 years with a total household income ≤ 250% of the federal poverty guidelines



Enrolled **45** customers, **5%** of planned participation

Measures

- HVAC tune-up and upgrades
- Thermostat replacements
- Air and duct sealing
- Building insulation
- Window film and replacements
- HP water heaters
- Pipe and water tank wrap insulation
- Faucet aerators
- Showerheads
- LED lamps
- Clothes dryers and washers
- Dishwashers
- Health and safety measures



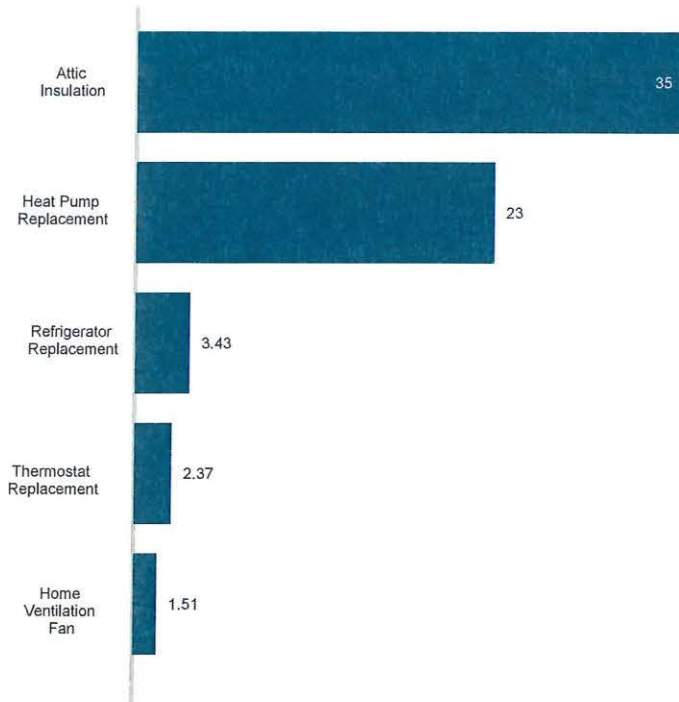
Achieved net annual energy savings of **67,993 kWh/year**, **77%** of planned energy savings



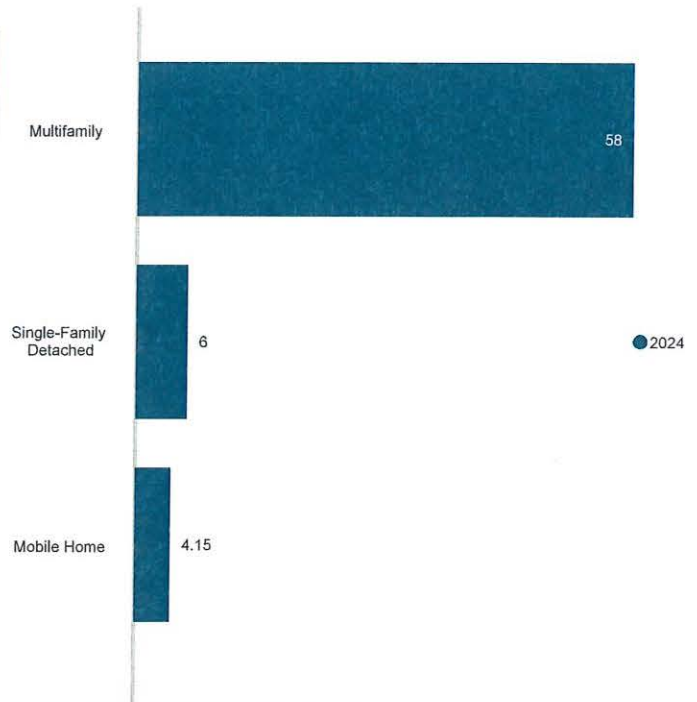
Spent **76%** of planned expenditures

Category	2024	Lifetime
Total Program Cost (\$)	631,010	631,010
Total Program Participants (#)	45	45
Total Gross Incremental Savings (kWh/yr)	68,680	
Total Net Incremental Savings (kWh/yr)	67,993	
Peak Gross Inc. Summer Demand Reduction (kW)	11	
Peak Net Inc. Summer Demand Reduction (kW)	11	
Peak Gross Inc. Winter Demand Reduction (kW)	41	
Peak Net Inc. Winter Demand Reduction (kW)	41	
Total Net Lifetime Savings (kWh)	7,517	1,366,712
Peak Net Lifetime Summer Demand Reduction (kW)	11	11
Peak Net Lifetime Winter Demand Reduction (kW)	41	41

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL INCOME AND AGE QUALIFYING BUNDLE

2023-2024

4,823 kWh/yr Average Net Savings Per Participant

Eligibility

- Qualified households may not be owner-occupied and the electric bill must be paid by the property
- Occupants of income qualifying households must have an income \leq 60% of Virginia median income
- Occupants of age qualifying households must be \geq 60 years of age and have an income \leq 120% of Virginia median income

Measures

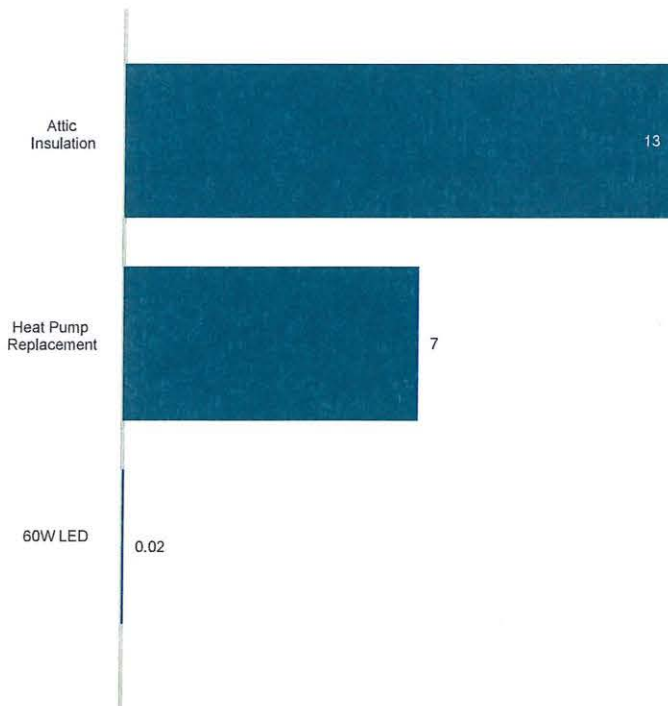
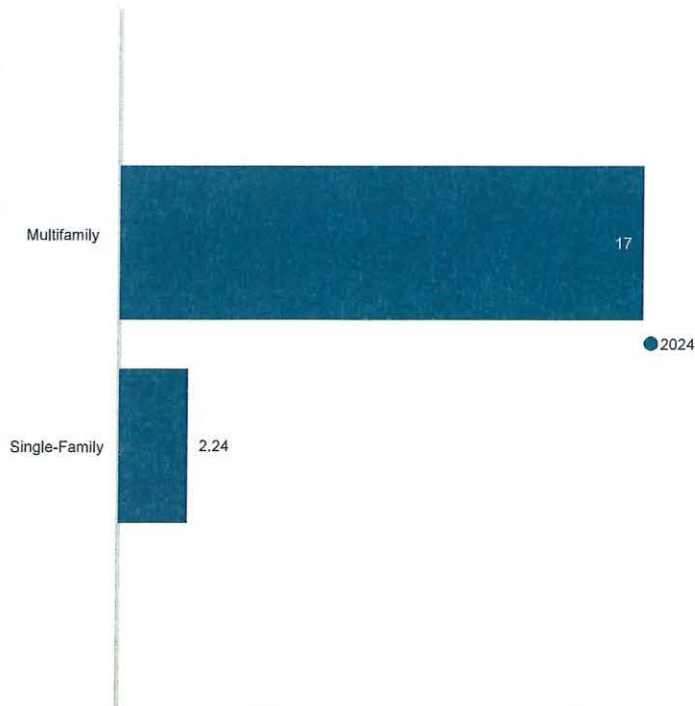
- HVAC tune-up and upgrades
- Thermostat replacements
- Air and duct sealing
- Building insulation
- Window film and replacements
- HP water heaters
- Pipe and water tank wrap insulation
- Faucet aerators
- Showerheads
- LED lamps
- Clothes dryers and washers
- Dishwashers
- Health and safety measures



Enrolled 4 customers, 2% of planned participation

Achieved net annual energy savings of **19,290 kWh/year, 95%** of planned energy savingsSpent **38%** of planned expenditures

Category	2023	2024	Lifetime
Total Program Cost (\$)	4,038	229,040	233,079
Total Program Participants (#)	0	4	4
Total Gross Incremental Savings (kWh/yr)	0	19,485	
Total Net Incremental Savings (kWh/yr)	0	19,290	
Peak Gross Inc. Summer Demand Reduction (kW)	0	5	
Peak Net Inc. Summer Demand Reduction (kW)	0	5	
Peak Gross Inc. Winter Demand Reduction (kW)	0	19	
Peak Net Inc. Winter Demand Reduction (kW)	0	19	
Total Net Lifetime Savings (kWh)	0	5,765	426,604
Peak Net Lifetime Summer Demand Reduction (kW)	0	5	5
Peak Net Lifetime Winter Demand Reduction (kW)	0	19	19

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



4 ENERGY EFFICIENCY – NON-RESIDENTIAL

Table 4-1. Active Non-Residential energy efficiency programs in 2024

DSM Phase	Acronym	Program	VA	NC
VII	CHV3	Heating and Cooling Efficiency	✓	✓
	CTSM	Manufacturing	✓	✓
	CSW2	Window Film	✓	✓
IX	CNR3	Prescriptive Enhanced (Bundle)	✓	✓
VII	CTSO	Office	✓	✓
IX	CBOT	Building Optimization	✓	✓
VIII	CEEP	Midstream Energy Efficiency Products	✓	
	CMFP	Multifamily	✓	
	CNCR	New Construction	✓	✓
	SBI2	Small Business Improvement Enhanced	✓	✓
IX	CAGR	Agricultural Energy Efficiency	✓	
	CBAS	Building Automation System	✓	✓
	CENG	Engagement	✓	✓
X	CDAC	Data Server Rooms	✓	
	CHT4	Healthcare Energy Solutions	✓	
	CHA4	Hotel and Lodging Energy Solutions	✓	
	CLT4	Lighting Systems & Controls	✓	✓
	CSBB	Small Business Behavioral	✓	
XI	CST4	Custom	✓	

Figure 4-1 and Figure 4-2 show the cumulative count of Non-Residential program participation and net annualized energy savings in the two states, for the active programs, at the zip code level, through December 31, 2024. The deeper the color, the greater the participation and net annualized energy savings.

Figure 4-1. Virginia and North Carolina Non-Residential program participation, by zip code

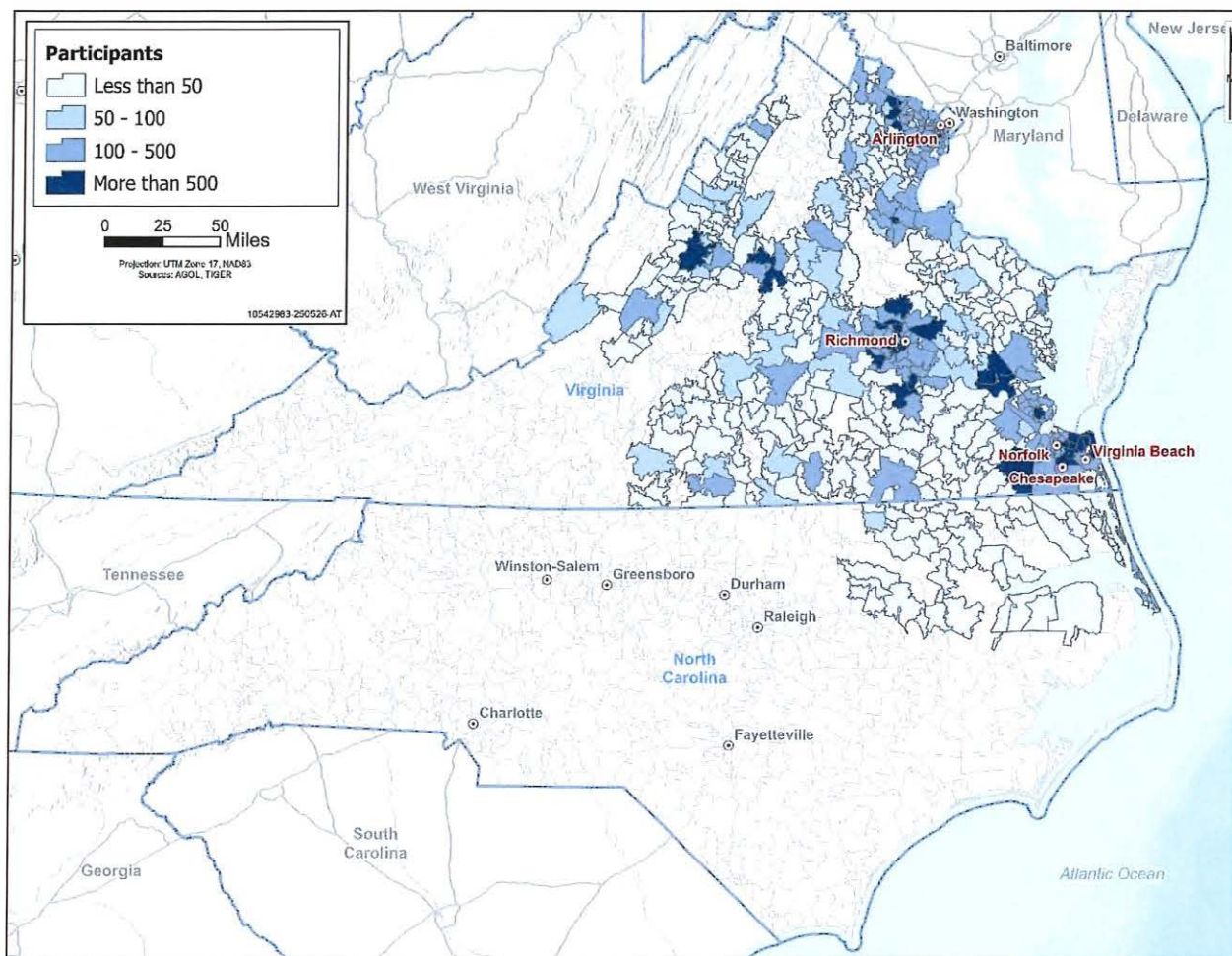
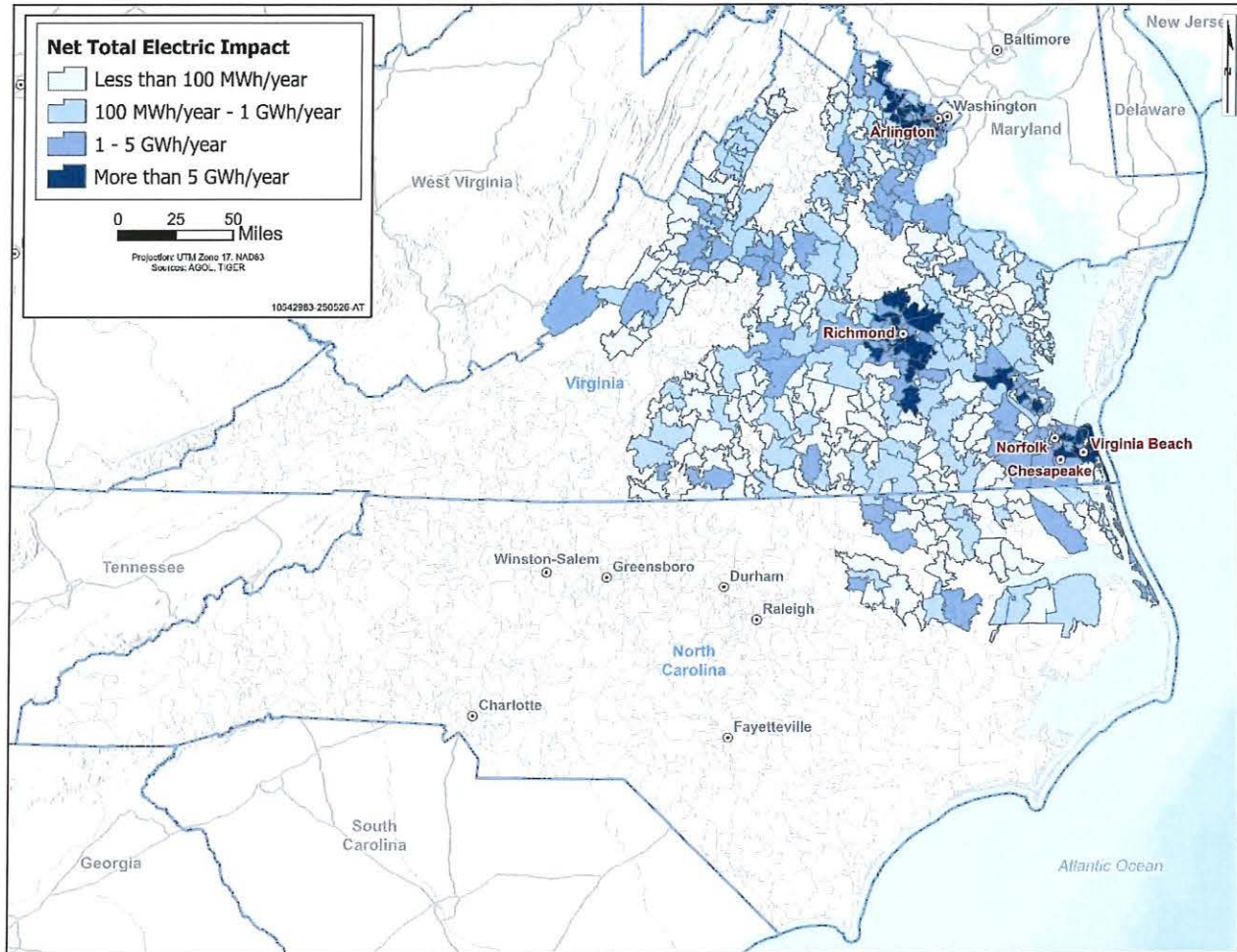


Figure 4-2. Virginia and North Carolina Non-Residential program net annualized energy Savings, by zip code



NON-RESIDENTIAL HEATING AND COOLING EFFICIENCY

2019-2024

198,741 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **159** customers, **5%** of planned participation



Achieved net annual energy savings of **31,600 MWh/year**, **85%** of planned energy savings

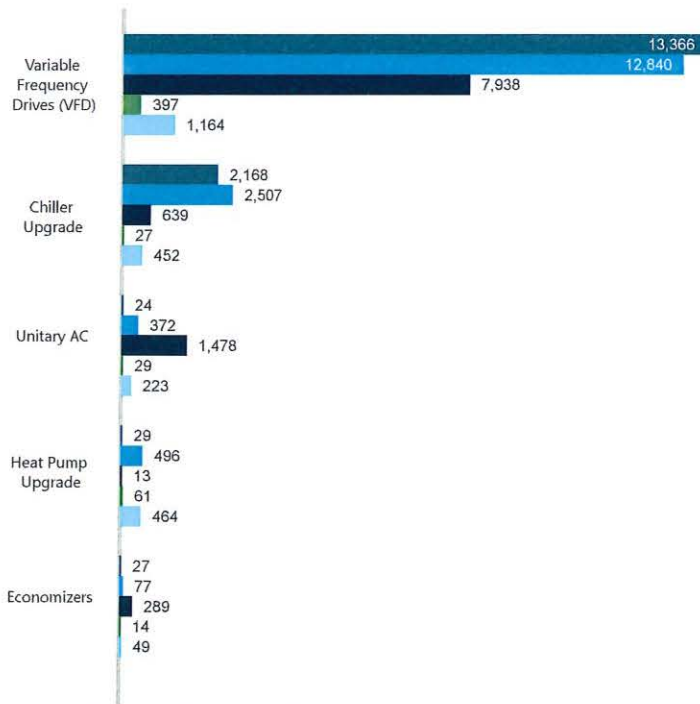
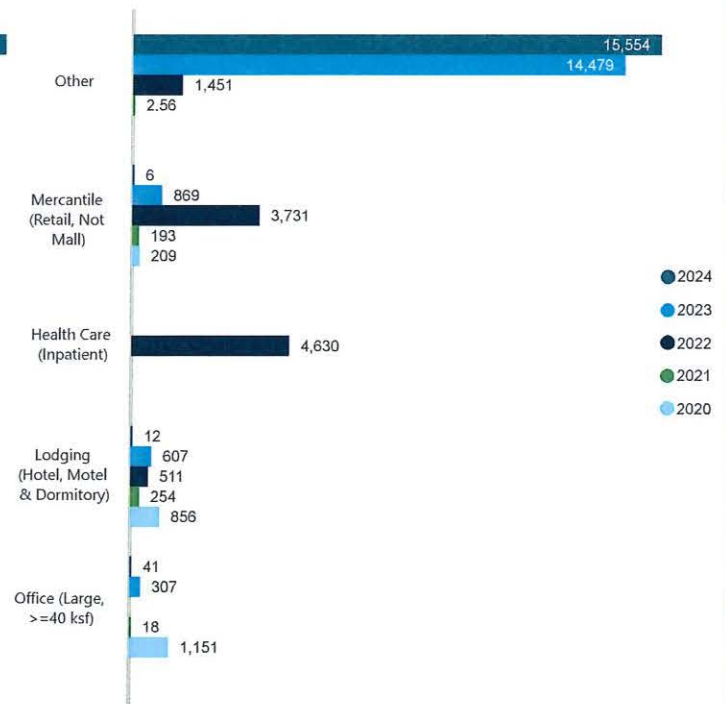


Spent **103%** of planned expenditures

Measures

- Unitary and split AC units
- Air-source and ground-source heat pumps
- Packaged terminal AC and heat pumps
- Variable refrigerant flow units
- Water and air-cooled chillers
- Variable frequency drives for HVAC applications
- Economizers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	723,971	582,157	1,173,390	2,990,710	3,268,243	9,080,665
Total Program Participants (#)	30	44	51	26	8	159
Total Gross Incremental Savings (kWh/yr)	2,352,639	527,840	10,356,854	16,291,782	15,613,593	
Total Net Incremental Savings (kWh/yr)	1,646,848	369,488	7,249,798	11,404,247	10,929,515	
Peak Gross Inc. Summer Demand Reduction (kW)	408	59	2,809	2,230	7,637	
Peak Net Inc. Summer Demand Reduction (kW)	286	41	1,966	1,561	5,346	
Peak Gross Inc. Winter Demand Reduction (kW)	0	29	168	21	1,167	
Peak Net Inc. Winter Demand Reduction (kW)	0	20	118	15	817	
Total Net Lifetime Savings (kWh)	563,243	2,374,956	6,262,012	20,202,792	49,922,238	474,053,526
Peak Net Lifetime Summer Demand Reduction (kW)	286	327	2,293	3,854	9,200	9,200
Peak Net Lifetime Winter Demand Reduction (kW)	0	20	138	153	970	970

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL HEATING AND COOLING EFFICIENCY

2020-2024

49,877 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **2** customers, **1%** of planned participation



Achieved net annual energy savings of **99,753 kWh/year**, **5%** of planned energy savings



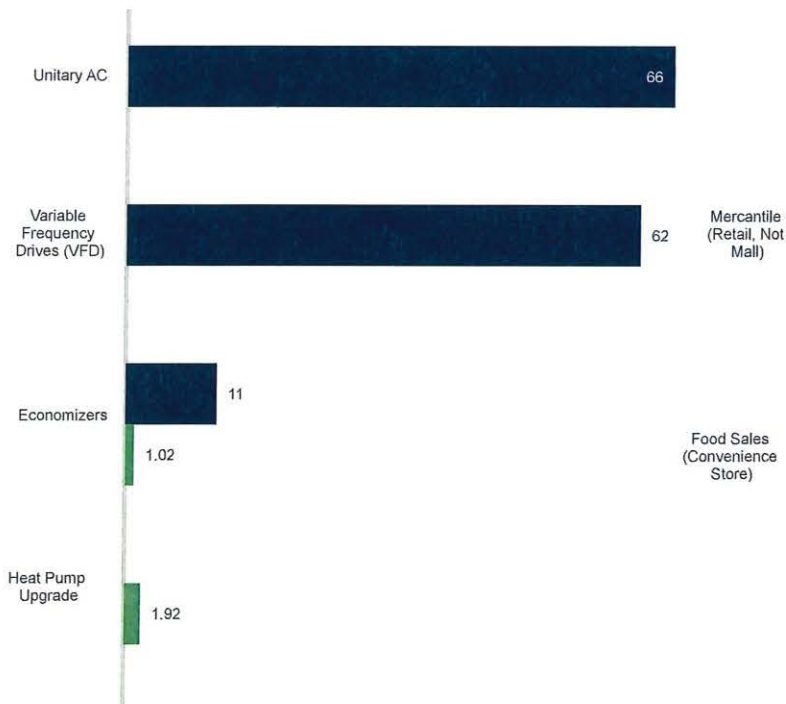
Spent **32%** of planned expenditures

Measures

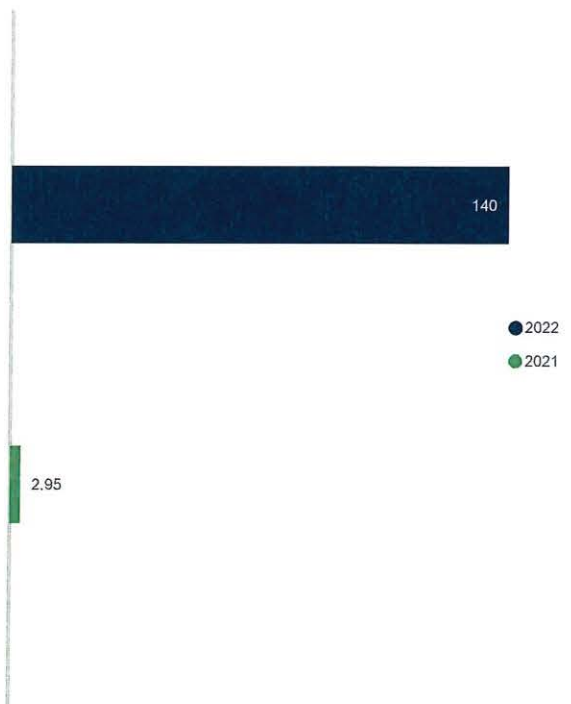
- Unitary and split AC units
- Air-source and ground-source heat pumps
- Packaged terminal AC and heat pumps
- Variable refrigerant flow units
- Water and air-cooled chillers
- Variable frequency drives for HVAC applications
- Economizers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	30,873	33,730	43,699	34,208	9,789	152,299
Total Program Participants (#)	0	1	1	0	0	2
Total Gross Incremental Savings (kWh/yr)	0	2,946	139,559	0	0	
Total Net Incremental Savings (kWh/yr)	0	2,062	97,691	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	1	18	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	12	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	1	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	812	33,858	0	0	1,496,363
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	13	0	0	13
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0	0

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL SMALL MANUFACTURING

2019-2024

183,927 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **67** customers, **22%** of planned participation



Achieved net annual energy savings of **12,323 MWh/year**, **90%** of planned energy savings

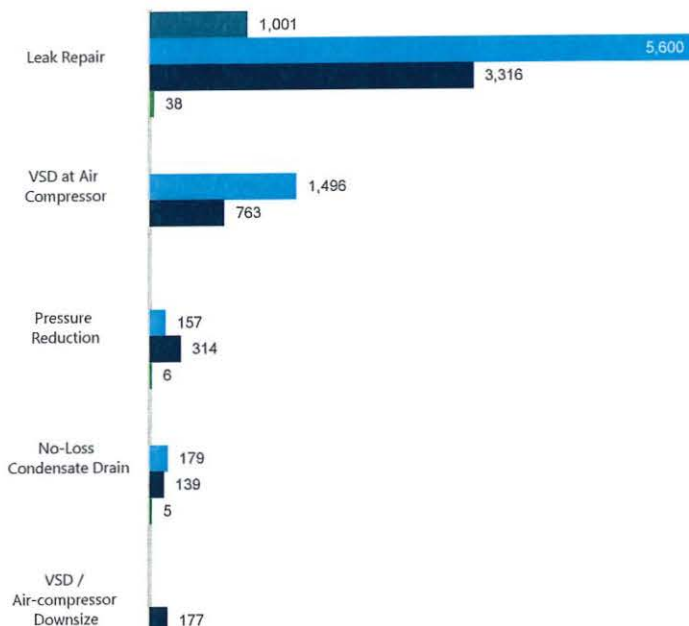
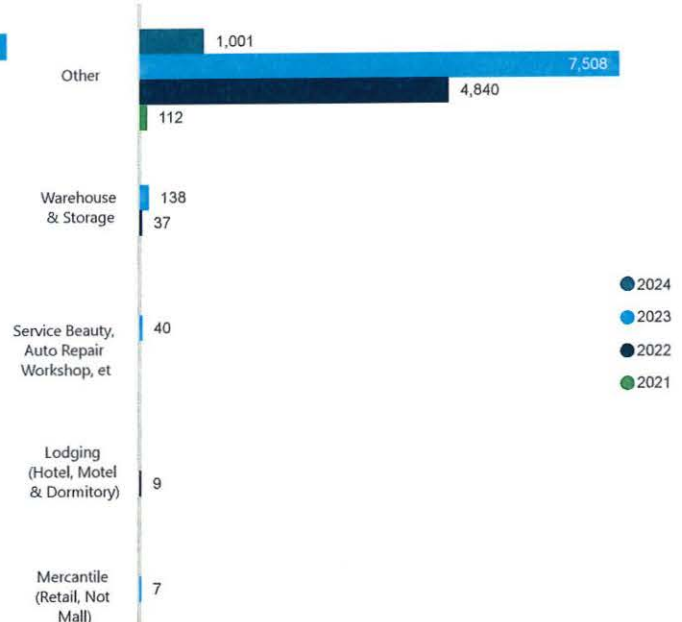


Spent **52%** of planned expenditures

Measures

- Facility assessment
- Compressed air leak repair
- No loss condensate drains
- Efficient VSD compressors
- Cycling refrigerant dryers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	331,721	280,616	695,693	1,168,250	242,906	3,086,482
Total Program Participants (#)	0	1	19	42	5	67
Total Gross Incremental Savings (kWh/yr)	0	112,237	4,886,095	7,692,863	1,001,130	
Total Net Incremental Savings (kWh/yr)	0	101,013	4,397,486	6,923,577	901,017	
Peak Gross Inc. Summer Demand Reduction (kW)	0	23	582	928	133	
Peak Net Inc. Summer Demand Reduction (kW)	0	21	524	835	120	
Peak Gross Inc. Winter Demand Reduction (kW)	0	23	582	928	133	
Peak Net Inc. Winter Demand Reduction (kW)	0	21	524	835	120	
Total Net Lifetime Savings (kWh)	0	24,701	1,256,284	9,400,003	21,679,786	152,011,947
Peak Net Lifetime Summer Demand Reduction (kW)	0	21	545	1,380	1,500	1,500
Peak Net Lifetime Winter Demand Reduction (kW)	0	21	545	1,380	1,500	1,500

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL SMALL MANUFACTURING

2020-2024

87,201 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor

Measures

- Facility assessment
- Compressed air leak repair
- No loss condensate drains
- Efficient VSD compressors
- Cycling refrigerant dryers



Enrolled **5** customers, **31%** of planned participation



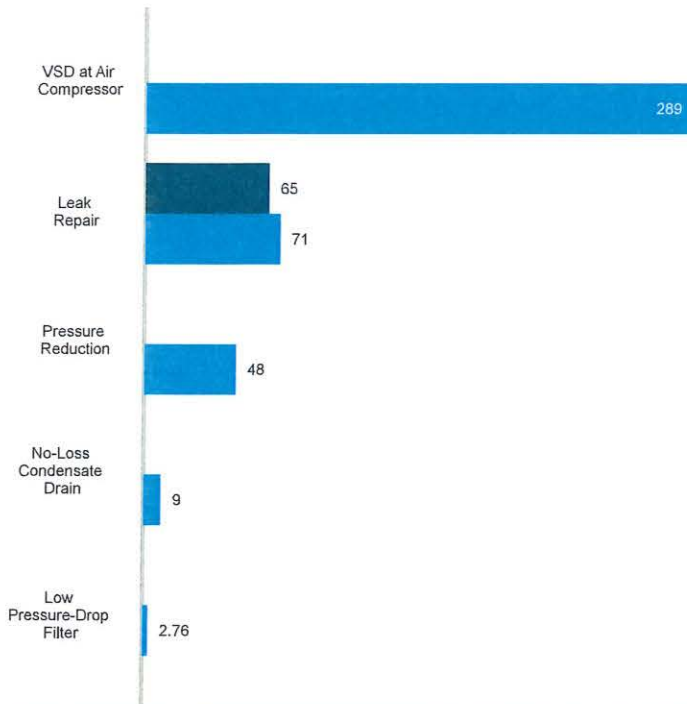
Achieved net annual energy savings of **436,007 kWh/year**, **60%** of planned energy savings



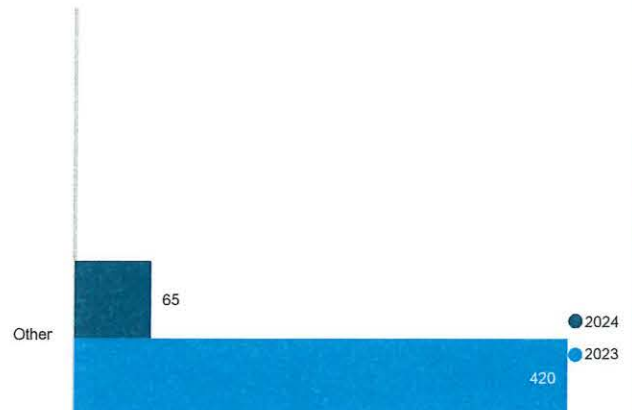
Spent **47%** of planned expenditures

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	18,987	17,245	16,181	76,431	21,684	150,529
Total Program Participants (#)	0	0	0	4	1	5
Total Gross Incremental Savings (kWh/yr)	0	0	0	419,942	64,511	
Total Net Incremental Savings (kWh/yr)	0	0	0	377,948	58,060	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	46	7	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	42	6	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	46	7	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	42	6	
Total Net Lifetime Savings (kWh)	0	0	0	258,733	692,202	5,379,610
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	42	48	48
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	42	48	48

TOTAL SAVING BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL WINDOW FILM

2019-2024

4 kWh/yr Average Net Savings Per Square Feet

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Rebated **129,139** square feet, **23%** of planned square feet



Achieved net annual energy savings of **474,845 kWh/year**, **6%** of planned energy savings

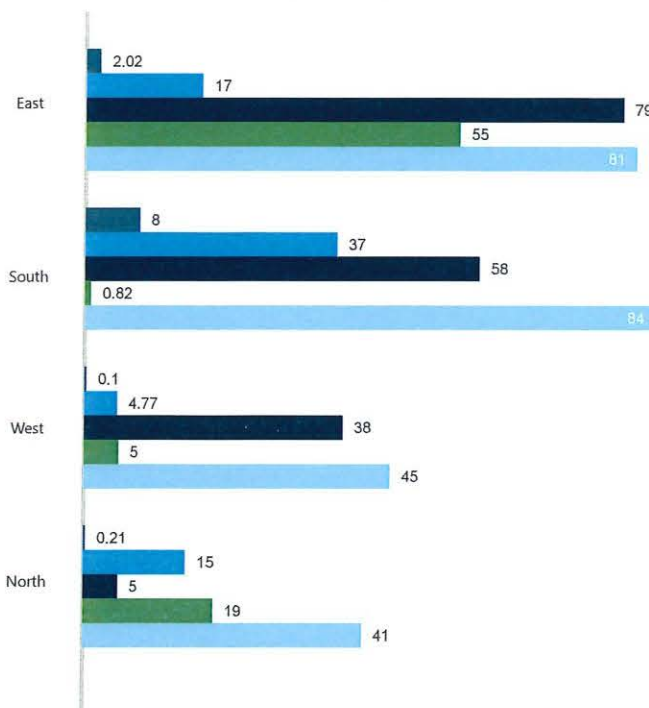
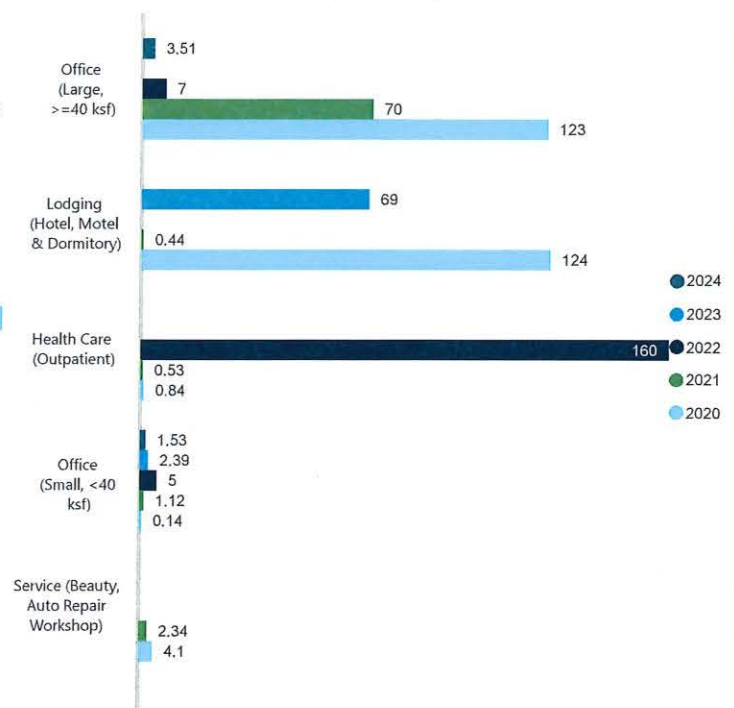


Spent **70%** of planned expenditures

Measures

- Solar reduction window film

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	356,882	325,497	273,733	254,640	109,141	1,512,040
Total Program Square Feet (#)	62,925	21,212	17,711	23,871	3,420	129,139
Total Gross Incremental Savings (kWh/yr)	250,377	79,659	180,296	73,351	9,874	
Total Net Incremental Savings (kWh/yr)	200,302	63,727	144,237	58,681	7,899	
Peak Gross Inc. Summer Demand Reduction (kW)	78	0	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	62	0	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Total Net Lifetime Savings (kWh)	117,856	370,380	650,430	1,099,143	1,573,839	4,749,470
Peak Net Lifetime Summer Demand Reduction (kW)	62	62	62	62	62	62
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0	0

TOTAL SAVINGS BY ORIENTATION
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

North Carolina

Docket #: E-22, Sub 570

NON-RESIDENTIAL WINDOW FILM

2020-2024

11 kWh/yr Average Net Savings Per Square Feet

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Rebated **1,299** square feet, **4%** of planned square feet



Achieved net annual energy savings of **13,948 kWh/year**, **3%** of planned energy savings



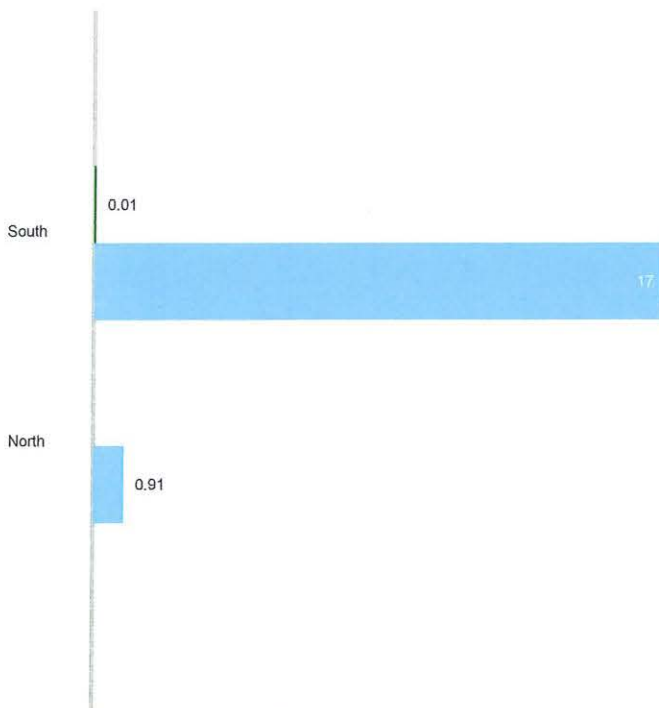
Spent **63%** of planned expenditures

Measures

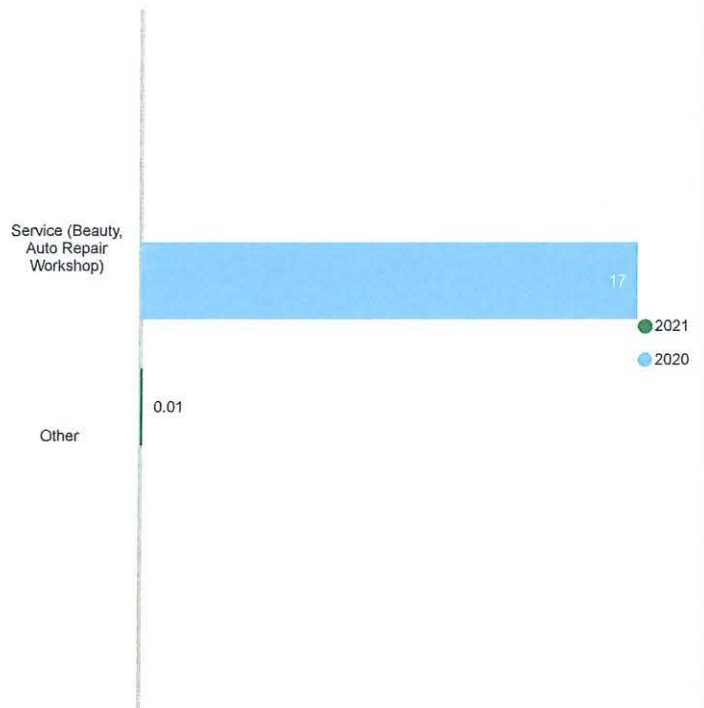
- Solar reduction window film

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	18,804	19,546	13,856	14,219	5,898	72,323
Total Program Square Feet (#)	1,004	295	0	0	0	1,299
Total Gross Incremental Savings (kWh/yr)	17,430	6	0	0	0	
Total Net Incremental Savings (kWh/yr)	13,944	5	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	5	0	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	4	0	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Total Net Lifetime Savings (kWh)	4,849	18,794	0	0	0	139,528
Peak Net Lifetime Summer Demand Reduction (kW)	4	4	0	0	0	4
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0	0

TOTAL SAVINGS BY ORIENTATION
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL PRESCRIPTIVE ENHANCED BUNDLE

2021-2024

18,139 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **1,511** customers, **85%** of planned participation

Measures

- Cooking Appliances
- Domestic Heat Pump Water Heater
- Pre-Rinse Sprayer
- Commercial Laundry Appliances
- Commercial Kitchen Appliances
- Electronically Commutated Motor
- VSD on Kitchen Exhaust Fan
- Refrigeration Appliances and Optimizations
- Parking Deck Ventilation
- Duct Test and Seal
- Air Conditioning Tune-up
- Heat Pump Pool Heater
- Pool Spa Cover
- Variable Speed Pool Pump
- Guest Room Occupancy

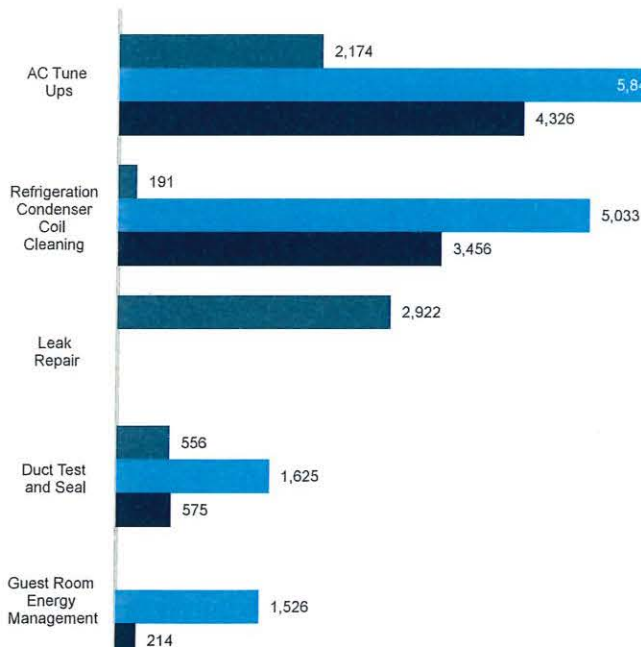
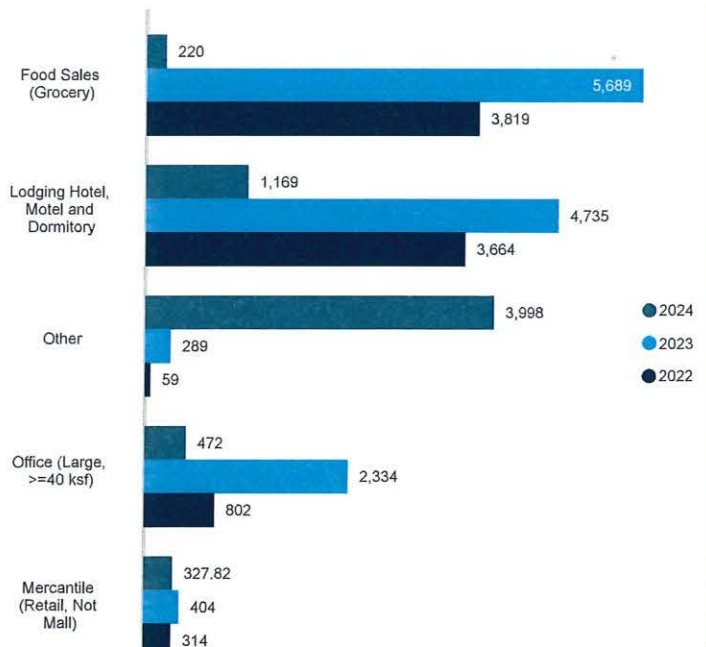


Achieved net annual energy savings of **27,408 MWh/year**, **54%** of planned energy savings



Spent **150%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	33,042	5,652,798	10,122,762	5,218,473	21,027,074
Total Program Participants (#)	0	366	595	550	1,511
Total Gross Incremental Savings (kWh/yr)	0	8,848,159	14,350,446	7,254,575	
Total Net Incremental Savings (kWh/yr)	0	7,963,344	12,915,402	6,529,118	
Peak Gross Inc. Summer Demand Reduction (kW)	0	5,598	14,721	2,038	
Peak Net Inc. Summer Demand Reduction (kW)	0	5,038	13,249	1,834	
Peak Gross Inc. Winter Demand Reduction (kW)	0	854	3,846	1,581	
Peak Net Inc. Winter Demand Reduction (kW)	0	768	3,461	1,423	
Total Net Lifetime Savings (kWh)	0	838,891	18,674,365	42,287,926	176,913,480
Peak Net Lifetime Summer Demand Reduction (kW)	0	5,038	18,287	20,121	20,121
Peak Net Lifetime Winter Demand Reduction (kW)	0	768	4,230	5,652	5,652

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL PRESCRIPTIVE ENHANCED BUNDLE

2022-2024

9,736 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **44** customers, **39%** of planned participation



Achieved net annual energy savings of **428,363 kWh/year**, **13%** of planned energy savings



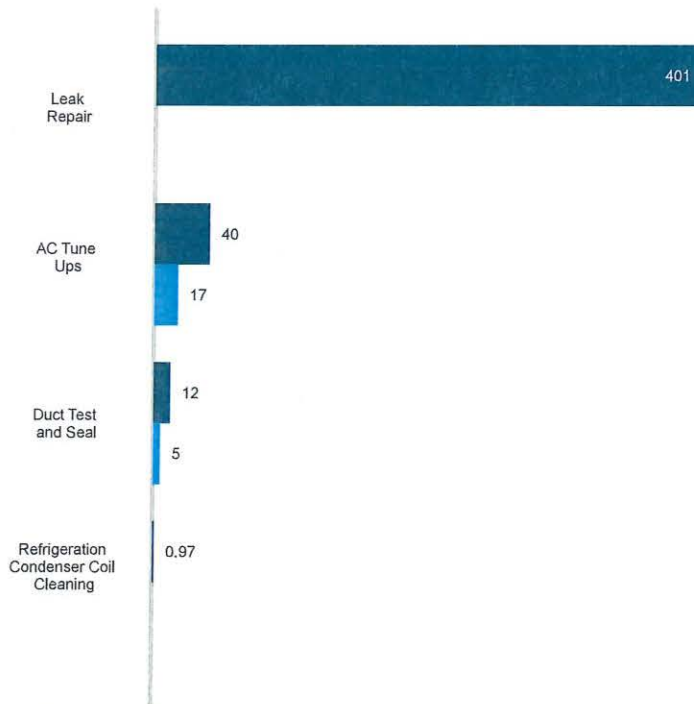
Spent **50%** of planned expenditures

Measures

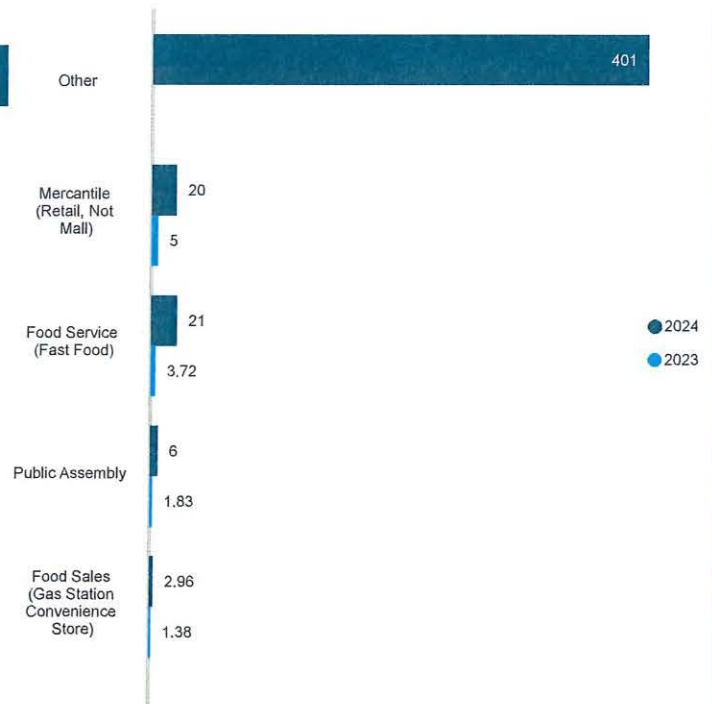
- Cooking Appliances
- Domestic Heat Pump Water Heater
- Pre-Rinse Sprayer
- Commercial Laundry Appliances
- Commercial Kitchen Appliances
- Electronically Commutated Motor
- VSD on Kitchen Exhaust Fan
- Refrigeration Appliances and Optimizations
- Parking Deck Ventilation
- Duct Test and Seal
- Air Conditioning Tune-up
- Heat Pump Pool Heater
- Pool Spa Cover
- Variable Speed Pool Pump
- Guest Room Occupancy

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	21,735	102,393	211,436	335,563
Total Program Participants (#)	0	13	31	44
Total Gross Incremental Savings (kWh/yr)	0	22,226	453,733	
Total Net Incremental Savings (kWh/yr)	0	20,003	408,360	
Peak Gross Inc. Summer Demand Reduction (kW)	0	10	70	
Peak Net Inc. Summer Demand Reduction (kW)	0	9	63	
Peak Gross Inc. Winter Demand Reduction (kW)	0	15	74	
Peak Net Inc. Winter Demand Reduction (kW)	0	14	66	
Total Net Lifetime Savings (kWh)	0	948	79,085	1,466,809
Peak Net Lifetime Summer Demand Reduction (kW)	0	9	73	73
Peak Net Lifetime Winter Demand Reduction (kW)	0	14	80	80

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL OFFICE

2019-2024

67,864 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **169** customers, **47%** of planned participation



Achieved net annual energy savings of **11,469 MWh/year**, **55%** of planned energy savings

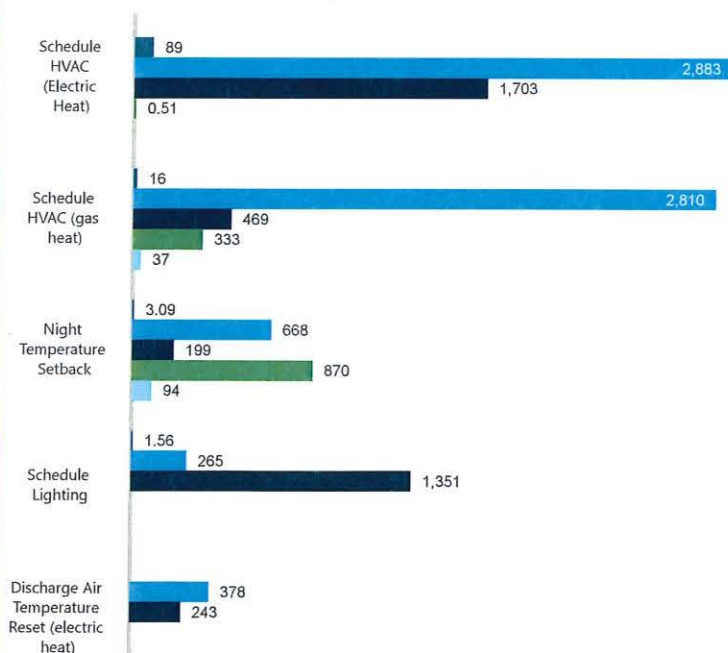
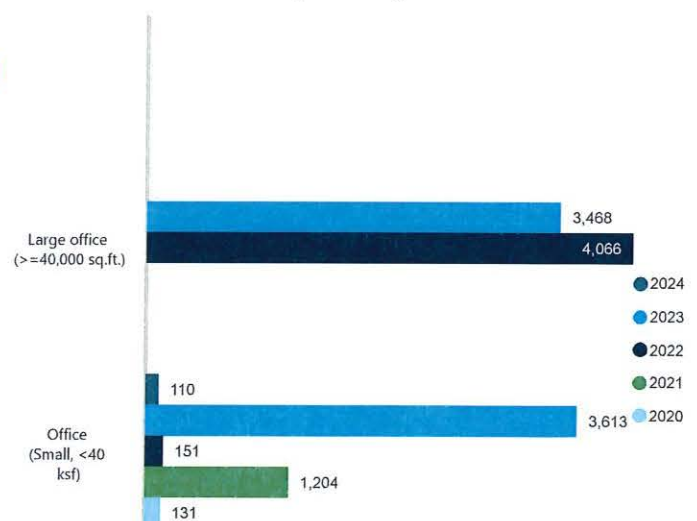


Spent **61%** of planned expenditures

Measures

- Temperature setback
- Static pressure reset
- Reduce lighting schedule
- VAV minimum flow reduction
- HVAC unit scheduling
- Dual enthalpy economizer
- Condensing water temperature reset
- Discharge air temperature reset

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	408,837	804,161	477,980	1,137,077	145,642	3,379,205
Total Program Participants (#)	6	59	16	86	2	169
Total Gross Incremental Savings (kWh/yr)	131,417	1,203,577	4,217,101	7,081,212	109,954	
Total Net Incremental Savings (kWh/yr)	118,275	1,083,219	3,795,391	6,373,091	98,959	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	69	19	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	62	18	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	41	14	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	37	13	0	
Total Net Lifetime Savings (kWh)	7,331	1,088,589	2,745,209	10,569,399	22,036,733	80,302,979
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	62	79	79	79
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	37	50	50	50

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL OFFICE

2020-2024

28,172 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by a participating contractor



Enrolled **3** customers, **15%** of planned participation



Achieved net annual energy savings of **84,516 kWh/year**, **7%** of planned energy savings



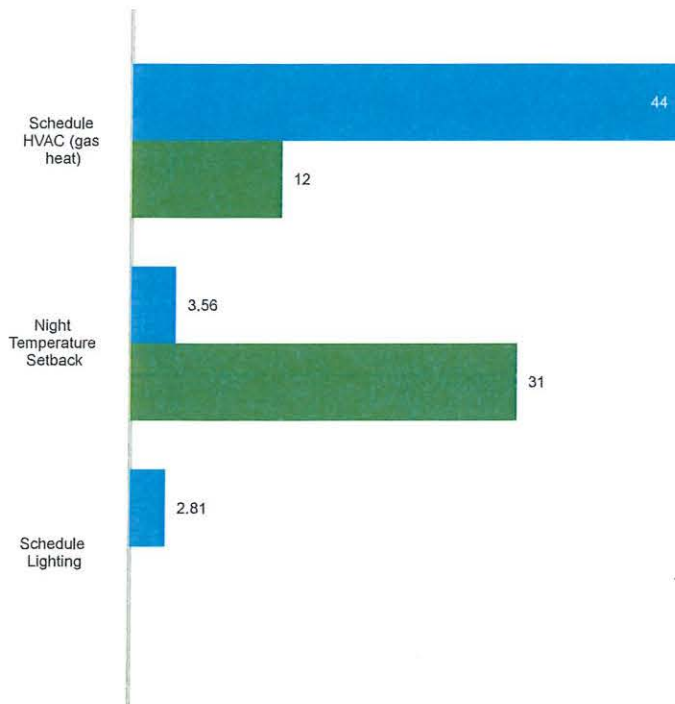
Spent **39%** of planned expenditures

Measures

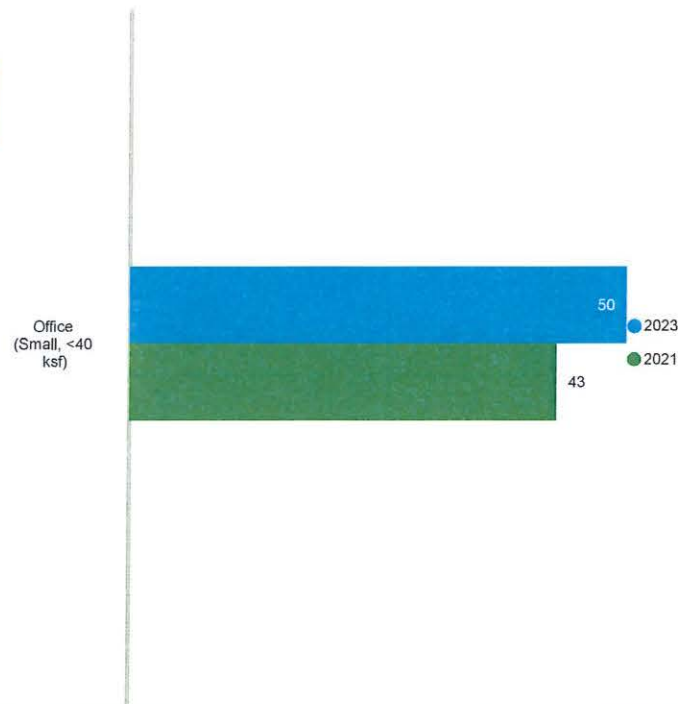
- Temperature setback
- Static pressure reset
- Reduce lighting schedule
- VAV minimum flow reduction
- HVAC unit scheduling
- Dual enthalpy economizer
- Condensing water temperature reset
- Discharge air temperature reset

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	21,142	38,028	18,553	30,001	7,474	115,198
Total Program Participants (#)	0	2	0	1	0	3
Total Gross Incremental Savings (kWh/yr)	0	43,444	0	50,462	0	
Total Net Incremental Savings (kWh/yr)	0	39,100	0	45,416	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	20,901	0	103,876	0	591,598
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	0	0	0
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0	0

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL BUILDING OPTIMIZATION

2021-2024

227,157 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **113** customers, **135%** of planned participation

Measures

- Schedule lighting
- Schedule HVAC
- Temperature setback
- Temperature setup
- Discharge air temperature reset
- Static pressure reset
- Dual enthalpy economizer
- Condensing water temperature reset
- Variable air volume box minimum
- Coil cleaning
- Pump pressure reduction
- Scheduling non-HVAC equipment
- Custom retro-commissioning measure
- Outdoor air reduction
- Chilled water reset

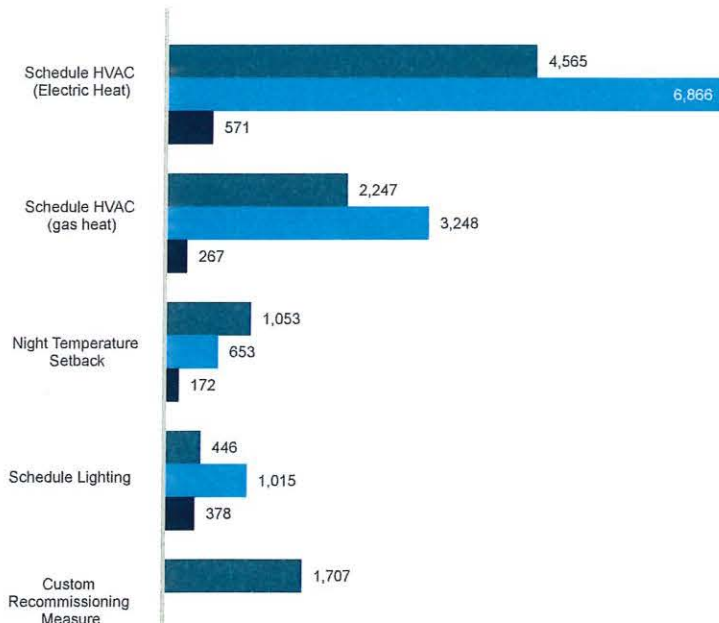
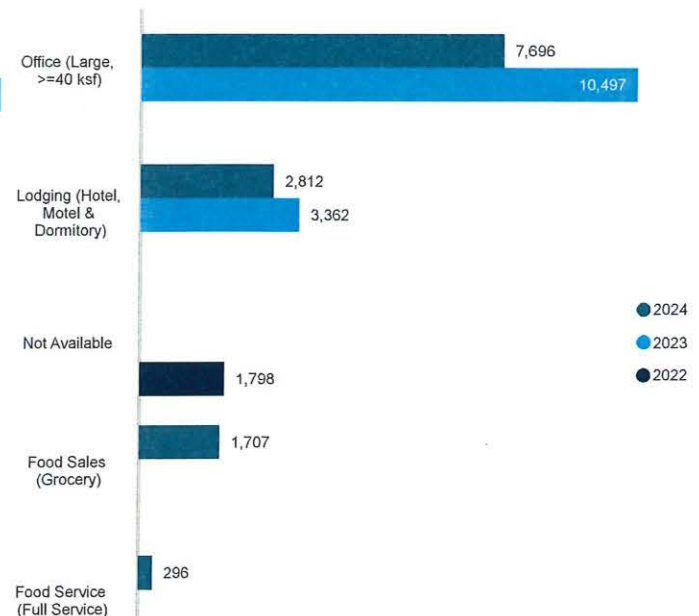


Achieved net annual energy savings of **25,669 MWh/year**, **186%** of planned energy savings



Spent **102%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	6,996	503,402	1,252,932	1,441,576	3,204,905
Total Program Participants (#)	0	2	43	68	113
Total Gross Incremental Savings (kWh/yr)	0	1,797,882	13,859,112	12,863,802	
Total Net Incremental Savings (kWh/yr)	0	1,618,094	12,473,201	11,577,422	
Peak Gross Inc. Summer Demand Reduction (kW)	0	47	316	685	
Peak Net Inc. Summer Demand Reduction (kW)	0	42	284	617	
Peak Gross Inc. Winter Demand Reduction (kW)	0	12	23	185	
Peak Net Inc. Winter Demand Reduction (kW)	0	11	20	167	
Total Net Lifetime Savings (kWh)	0	115,480	7,739,234	26,239,778	136,085,014
Peak Net Lifetime Summer Demand Reduction (kW)	0	42	327	943	943
Peak Net Lifetime Winter Demand Reduction (kW)	0	11	31	198	198

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

North Carolina

Docket #: E-22, Sub 615

NON-RESIDENTIAL BUILDING OPTIMIZATION

2022-2024

0 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **0** customers, **0%** of planned participation

Measures

- Schedule lighting
- Schedule HVAC
- Temperature setback
- Temperature setup
- Discharge air temperature reset
- Static pressure reset
- Dual enthalpy economizer
- Condensing water temperature reset
- Variable air volume box minimum
- Coil cleaning
- Pump pressure reduction
- Scheduling non-HVAC equipment
- Custom retro-commissioning measure
- Outdoor air reduction
- Chilled water reset



Achieved net annual energy savings of **0 kWh/year**, **0%** of planned energy savings



Spent **46%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	9,639	29,044	29,192	67,876
Total Program Participants (#)	0	0	0	
Total Gross Incremental Savings (kWh/yr)	0	0	0	
Total Net Incremental Savings (kWh/yr)	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	

NON-RESIDENTIAL MIDSTREAM ENERGY EFFICIENCY PRODUCTS

2020-2024

15,542 kWh/yr Average Net Savings Per Participant

Eligibility

- Distributor or retailer operating in Virginia
- Distributor or retailer is required to discount the rebate-eligible equipment sold to the purchaser at the time-of-sale and must provide point-of-sale monthly data for all transactions of eligible energy efficiency equipment



Rebated **333** work orders that contained discounted energy efficiency measures, **28%** of planned participation



Achieved net annual energy savings of **5,175 MWh/year**, **34%** of planned energy savings

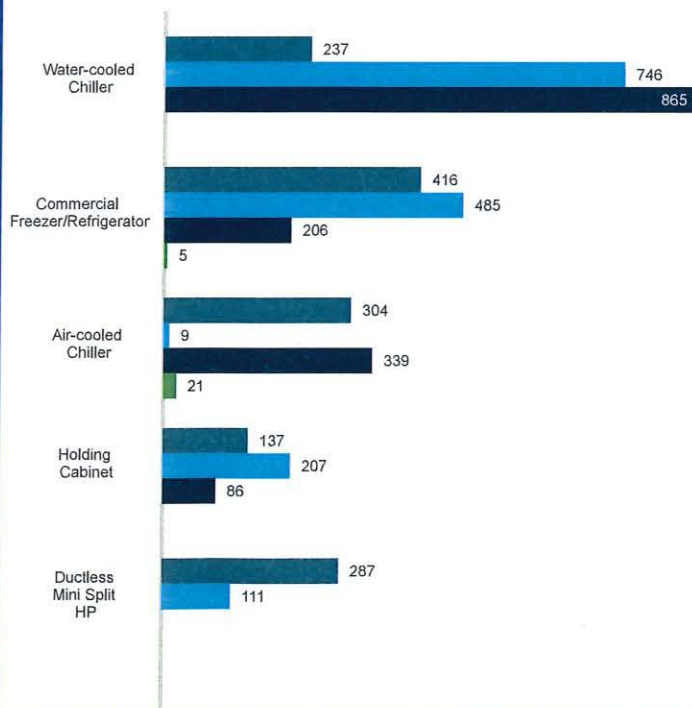


Spent **39%** of planned expenditures

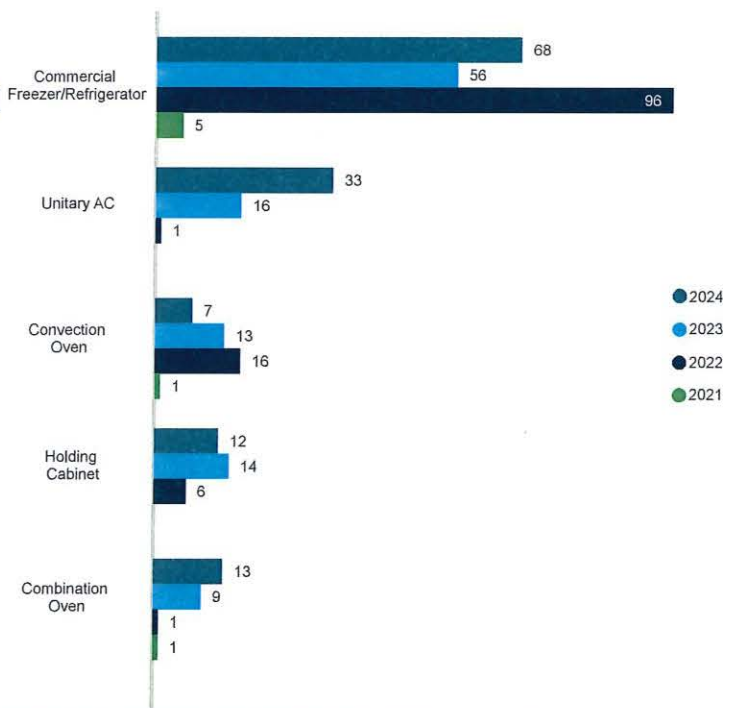
Measures

- Electric Fryers
- Hot Food Holding Cabinets
- Griddles
- Convection and Combination Ovens
- Steam Cookers
- Freezers, Refrigerators
- Packaged Terminal Air and Unitary Air Conditioners
- Unitary and Mini Split Heat Pumps
- Air Cooled and Water Cooled Chillers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	46,145	488,674	845,079	717,250	846,420	2,943,568
Total Program Participants (#)	0	7	113	83	130	333
Total Gross Incremental Savings (kWh/yr)	0	65,116	1,624,787	2,220,361	1,840,203	
Total Net Incremental Savings (kWh/yr)	0	58,605	1,462,308	1,998,325	1,656,183	
Peak Gross Inc. Summer Demand Reduction (kW)	0	81	1,957	621	385	
Peak Net Inc. Summer Demand Reduction (kW)	0	73	1,762	559	346	
Peak Gross Inc. Winter Demand Reduction (kW)	0	11	74	303	243	
Peak Net Inc. Winter Demand Reduction (kW)	0	10	67	273	219	
Total Net Lifetime Savings (kWh)	0	5,899	392,790	3,071,175	7,125,407	90,537,487
Peak Net Lifetime Summer Demand Reduction (kW)	0	73	1,835	2,394	2,741	2,741
Peak Net Lifetime Winter Demand Reduction (kW)	0	10	77	350	569	569

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)

TOTAL PARTICIPANTS BY MEASURE TYPE



NON-RESIDENTIAL MULTIFAMILY

2020-2024

10,078 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **72** customers, **1%** of planned participation



Achieved net annual energy savings of **725,645 kWh/year**, **7%** of planned energy savings

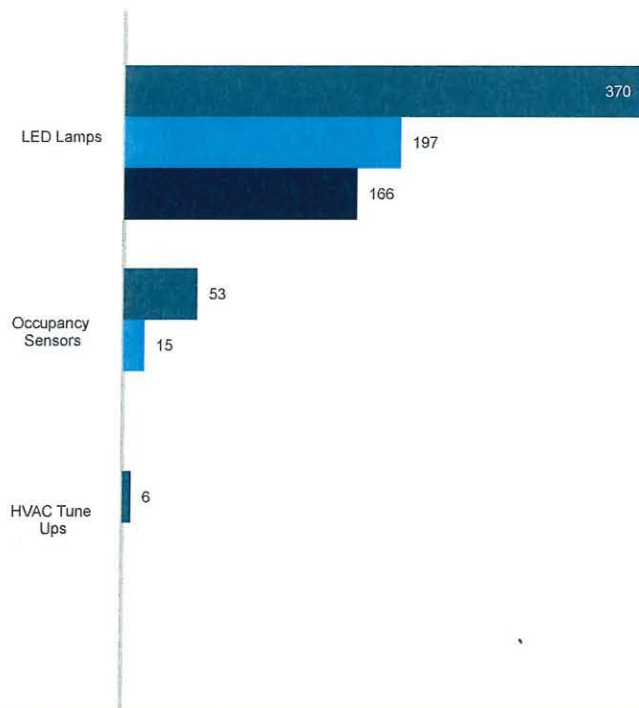
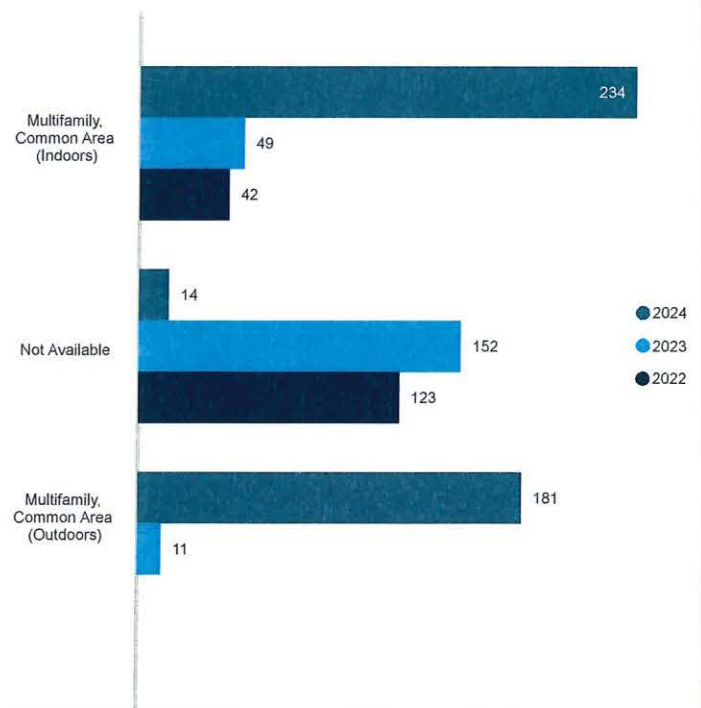


Spent **56%** of planned expenditures

Measures

- On-site energy assessment of common areas
- Pipe insulation
- LED lamps
- HVAC tune ups
- Smart thermostats
- Air sealing, duct sealing, attic insulation
- ENERGY STAR® washers and dryers

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	28,431	201,595	173,987	310,611	346,546	1,061,170
Total Program Participants (#)	0	0	5	29	38	72
Total Gross Incremental Savings (kWh/yr)	0	0	165,606	211,734	428,932	
Total Net Incremental Savings (kWh/yr)	0	0	149,045	190,561	386,039	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	18	4	27	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	16	4	24	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	18	7	48	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	16	6	44	
Total Net Lifetime Savings (kWh)	0	0	5,634	205,691	790,628	6,251,509
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	16	20	44	44
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	16	23	66	66

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY LOCATION
(MWH/YR)

NON-RESIDENTIAL NEW CONSTRUCTION

2020-2024

1,074,728 kWh/yr Average Net Savings Per Participant

Eligibility

- Non-residential customers for new construction or extensive renovation projects
- Non-residential customers except those who are exempt by statute, special contract, or opt out



Enrolled **31** customers, **10%** of planned participation



Achieved net annual energy savings of **33,317 MWh/year**, **227%** of planned energy savings

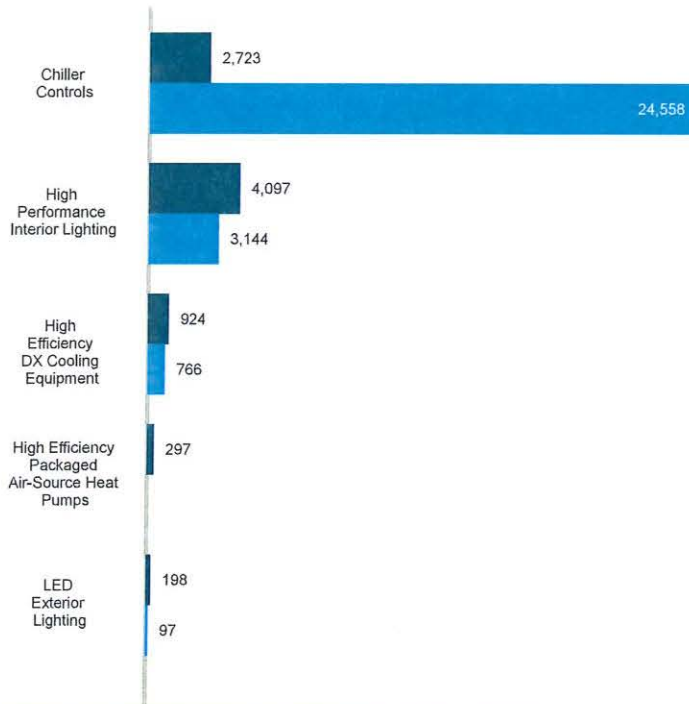
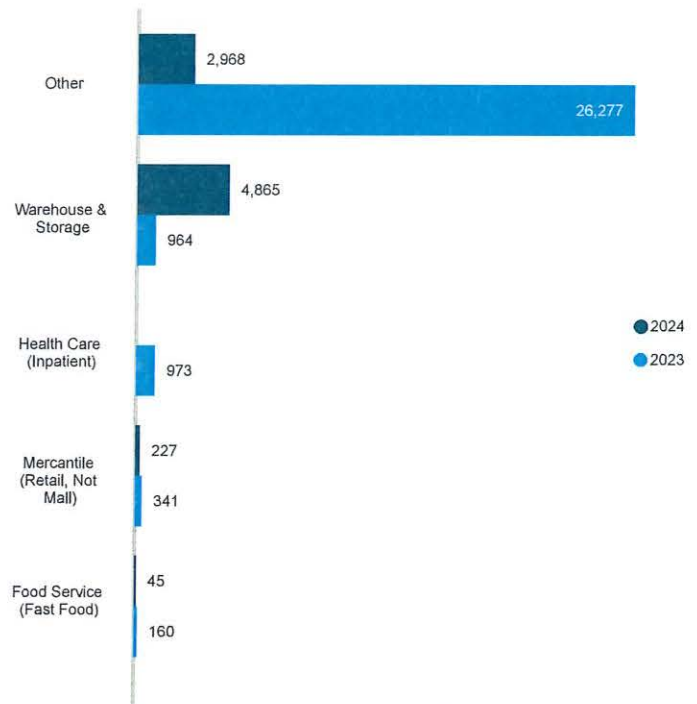


Spent **64%** of planned expenditures

Measures

- High performance interior lighting designs
- LED exterior lighting
- Efficient chillers and air-source heat pumps
- Chiller controls
- Efficient HVAC system controls
- Demand controlled ventilation
- Plug load management systems

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	27,624	603,899	477,704	2,241,471	1,907,553	5,258,250
Total Program Participants (#)	0	0	0	8	23	31
Total Gross Incremental Savings (kWh/yr)	0	0	0	28,749,726	8,268,666	
Total Net Incremental Savings (kWh/yr)	0	0	0	25,874,754	7,441,800	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	3,216	1,333	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	2,895	1,200	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	3,611	1,367	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	3,250	1,231	
Total Net Lifetime Savings (kWh)	0	0	0	9,987,616	41,245,135	467,114,665
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	2,895	4,095	4,095
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	3,250	4,481	4,481

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL NEW CONSTRUCTION

2021-2024

29,795 kWh/yr Average Net Savings Per Participant

Eligibility

- Non-residential customers for new construction or extensive renovation projects
- Non-residential customers except those who are exempt by statute, special contract, or opt out



Enrolled **2** customers, **11%** of planned participation



Achieved net annual energy savings of **59,590 kWh/year**, **6%** of planned energy savings



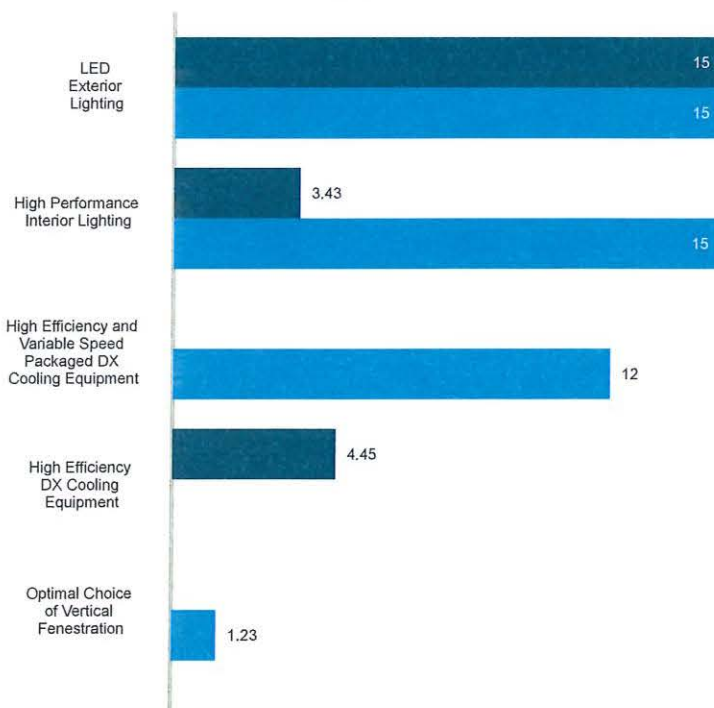
Spent **30%** of planned expenditures

Measures

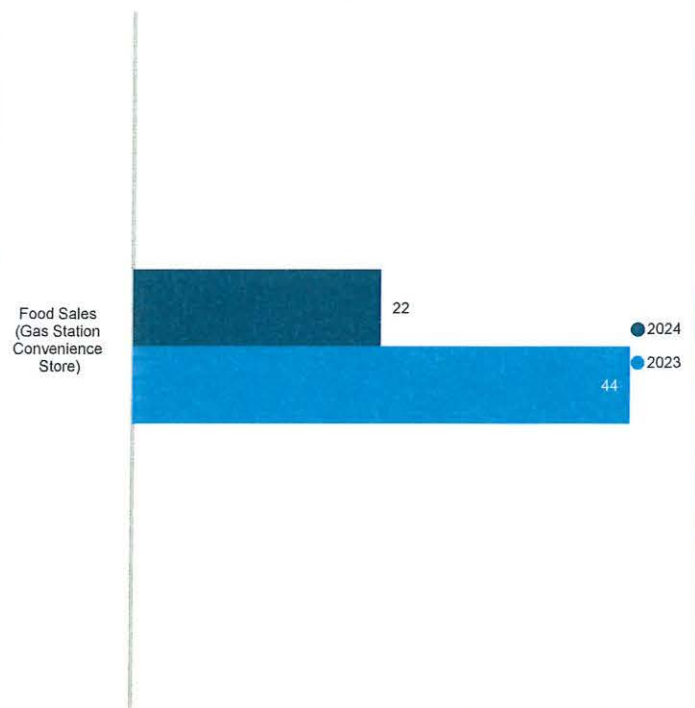
- High performance interior lighting designs
- LED exterior lighting
- Efficient chillers and air-source heat pumps
- Chiller controls
- Efficient HVAC system controls
- Demand controlled ventilation
- Plug load management systems

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	27,089	30,963	51,331	51,979	161,362
Total Program Participants (#)	0	0	1	1	2
Total Gross Incremental Savings (kWh/yr)	0	0	43,829	22,382	
Total Net Incremental Savings (kWh/yr)	0	0	39,446	20,144	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	8	5	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	7	5	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	7	2	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	6	2	
Total Net Lifetime Savings (kWh)	0	0	11,988	53,201	695,784
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	7	12	12
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	6	8	8

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT ENHANCED

2020-2024

5,525 kWh/yr Average Net Savings Per Participant

Eligibility

- Non-residential customers with privately-owned businesses in five or fewer locations
- Customer's monthly demand has not exceeded 100 kilowatts more than three times in the past 12 months
- Customer must be responsible for the electric bill and must be the owner of the facility or able to secure permission to complete measures

Measures

- Energy efficient lighting solutions
- Unitary/split AC & HP upgrade
- Dual Enthalpy air-side economizer
- Programmable thermostat
- Duct testing and sealing
- Unitary/split AC & HP tune-up
- Refrigerant charge correction
- Compressed air leak repair
- VFD on hot water pump
- Anti-sweat heater controls
- Door closer
- Evaporator fan control
- Refrigeration night cover
- Refrigeration VFD
- Strip curtain



Enrolled **2,730** customers, **108%** of planned participation



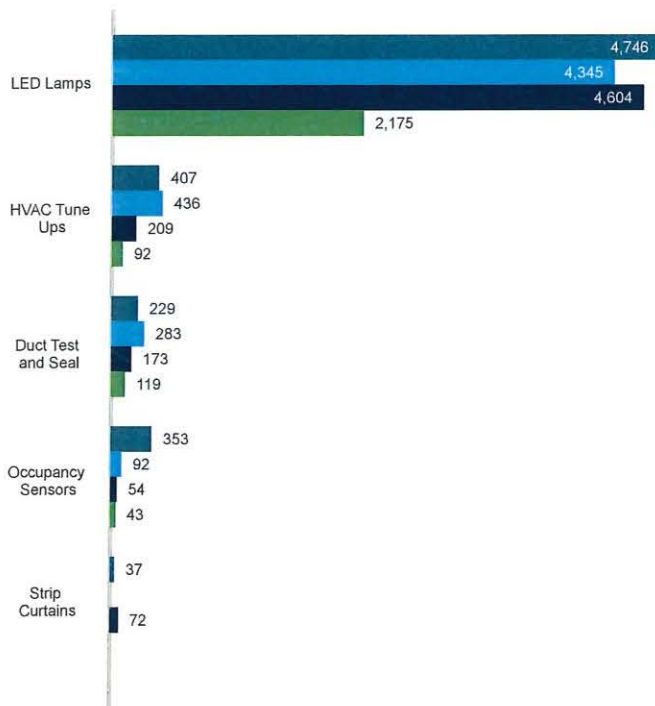
Achieved net annual energy savings of **15,084 MWh/year**, **41%** of planned energy savings



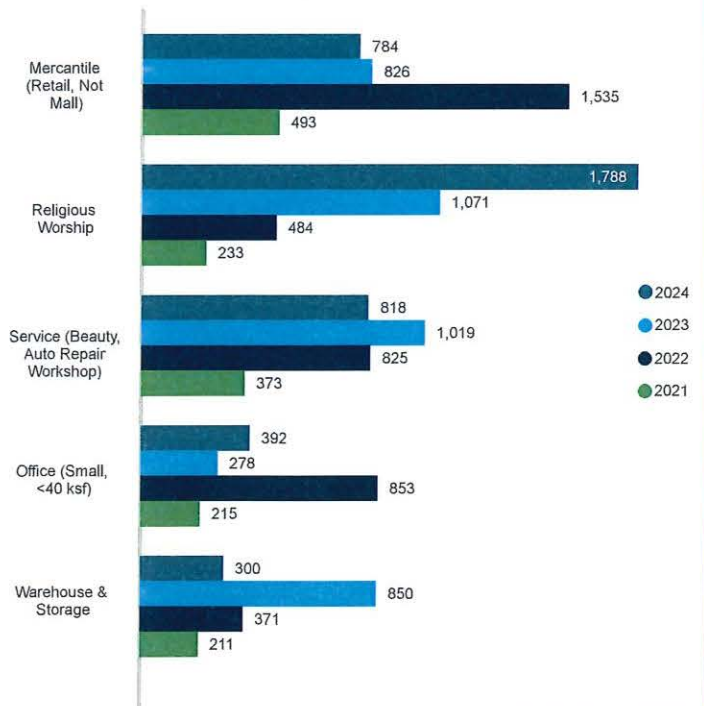
Spent **115%** of planned expenditures

Category	2020	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	56,290	2,443,713	3,445,530	4,901,879	5,934,361	16,781,773
Total Program Participants (#)	0	307	591	947	885	2,730
Total Gross Incremental Savings (kWh/yr)	0	2,429,201	5,119,684	5,161,646	5,779,490	
Total Net Incremental Savings (kWh/yr)	0	2,131,262	4,490,565	3,981,709	4,480,860	
Peak Gross Inc. Summer Demand Reduction (kW)	0	449	1,077	1,198	1,510	
Peak Net Inc. Summer Demand Reduction (kW)	0	354	833	956	1,234	
Peak Gross Inc. Winter Demand Reduction (kW)	0	328	630	551	550	
Peak Net Inc. Winter Demand Reduction (kW)	0	253	478	422	409	
Total Net Lifetime Savings (kWh)	0	685,192	5,372,638	13,932,000	26,816,612	153,049,224
Peak Net Lifetime Summer Demand Reduction (kW)	0	354	1,188	2,143	3,378	3,378
Peak Net Lifetime Winter Demand Reduction (kW)	0	253	731	1,153	1,562	1,562

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT ENHANCED

2021-2024

20,995 kWh/yr Average Net Savings Per Participant

Eligibility

- Non-residential customers with privately-owned businesses in five or fewer locations
- Customer's monthly demand has not exceeded 100 kilowatts more than three times in the past 12 months
- Customer must be responsible for the electric bill and must be the owner of the facility or able to secure permission to complete measures

Measures

- Energy efficient lighting solutions
- Unitary/split AC & HP upgrade
- Dual Enthalpy air-side economizer
- Programmable thermostat
- Duct testing and sealing
- Unitary/split AC & HP tune-up
- Refrigerant charge correction
- Compressed air leak repair
- VFD on hot water pump
- Anti-sweat heater controls
- Door closer
- Evaporator fan control
- Refrigeration night cover
- Refrigeration VFD
- Strip curtain



Enrolled **98** customers, **60%** of planned participation



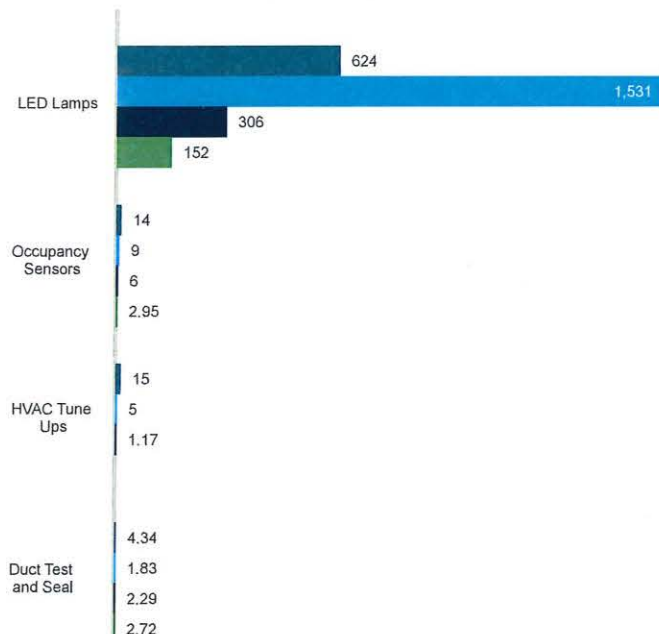
Achieved net annual energy savings of **2,058 MWh/year**, **86%** of planned energy savings



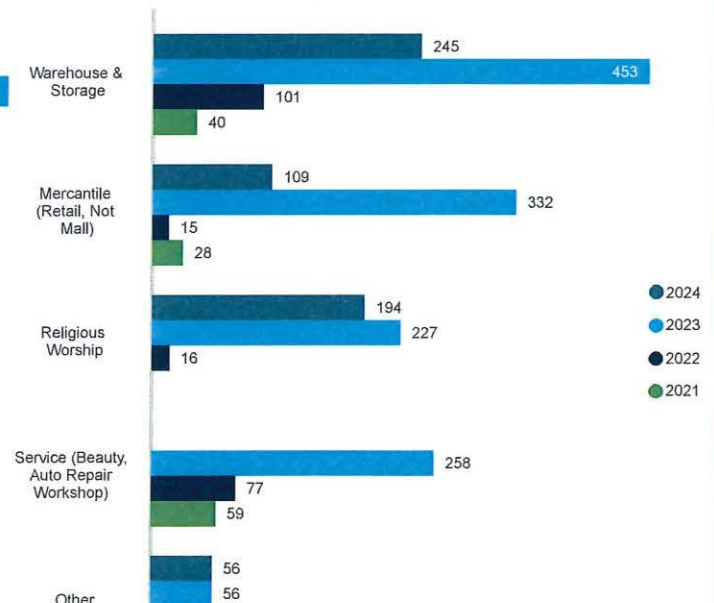
Spent **102%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	82,440	145,320	385,554	291,943	905,257
Total Program Participants (#)	8	8	47	35	98
Total Gross Incremental Savings (kWh/yr)	157,603	315,960	1,547,651	656,820	
Total Net Incremental Savings (kWh/yr)	137,636	275,832	1,150,834	493,253	
Peak Gross Inc. Summer Demand Reduction (kW)	30	67	224	98	
Peak Net Inc. Summer Demand Reduction (kW)	22	49	161	74	
Peak Gross Inc. Winter Demand Reduction (kW)	16	28	171	79	
Peak Net Inc. Winter Demand Reduction (kW)	11	20	123	58	
Total Net Lifetime Savings (kWh)	33,213	322,309	1,227,354	3,215,258	20,896,811
Peak Net Lifetime Summer Demand Reduction (kW)	22	71	232	305	305
Peak Net Lifetime Winter Demand Reduction (kW)	11	32	155	214	214

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL AGRICULTURAL ENERGY EFFICIENCY

2021-2024

369,795 kWh/yr Average Net Savings Per Participant

Eligibility

- Agricultural facilities on a non-residential or residential rate
- Must be the owner of the facility or reasonably able to secure permission to complete measures

Measures

- High volume low speed fans
- Automatic milker take off
- Poultry house fan VFD
- Circulation / ventilation fans
- Dust collection system fan VFD
- Low pressure irrigation and irrigation pump VFD
- Grain storage aeration fan controls
- Greenhouse ventilation fan VFD
- Greenhouse LED lighting
- Poultry LED
- Tobacco curing fan VFD



Enrolled **17** customers, **4%** of planned participation

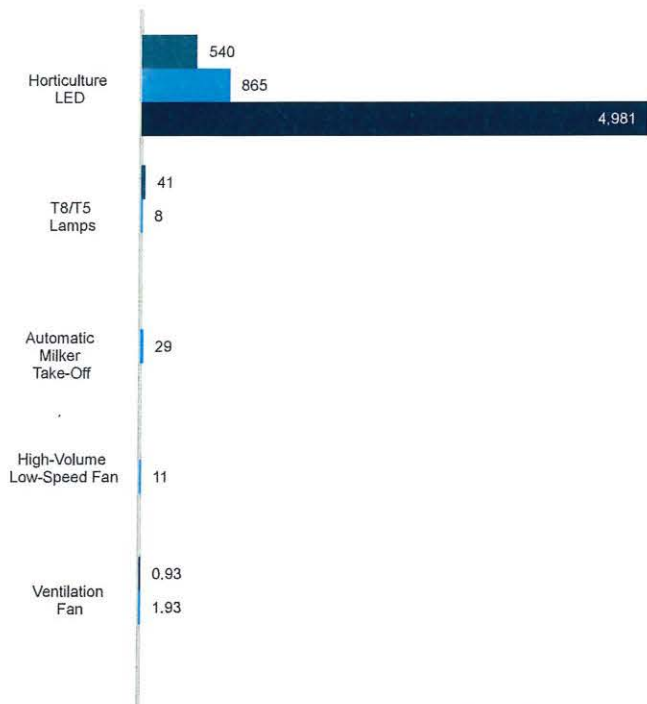
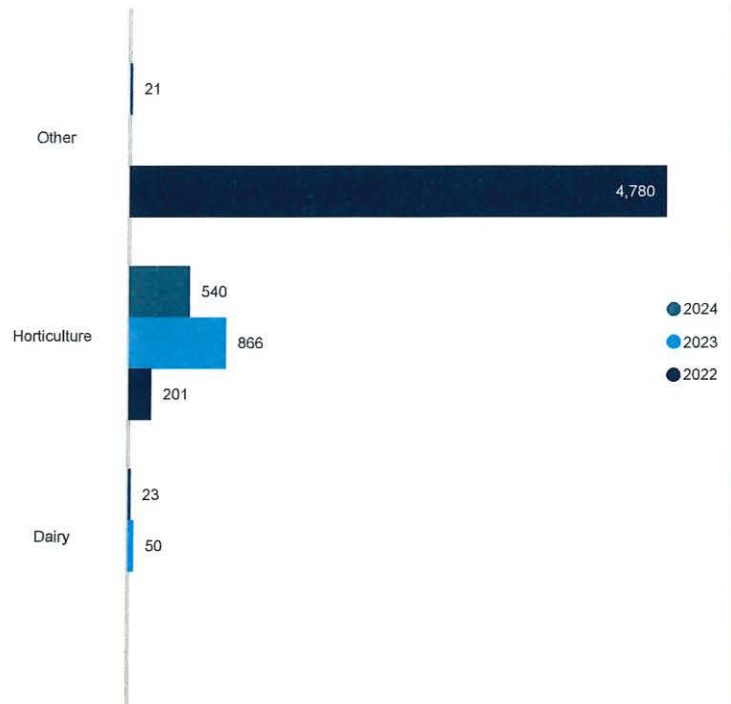


Achieved net annual energy savings of **6,287 MWh/year**, **112%** of planned energy savings



Spent **93%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	20,770	471,081	885,158	1,013,796	2,390,805
Total Program Participants (#)	0	3	8	6	17
Total Gross Incremental Savings (kWh/yr)	0	4,980,594	915,873	584,477	
Total Net Incremental Savings (kWh/yr)	0	4,831,176	888,397	566,943	
Peak Gross Inc. Summer Demand Reduction (kW)	0	793	57	112	
Peak Net Inc. Summer Demand Reduction (kW)	0	770	55	109	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	10	6	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	10	6	
Total Net Lifetime Savings (kWh)	0	487,919	5,602,901	11,457,762	68,746,716
Peak Net Lifetime Summer Demand Reduction (kW)	0	770	825	933	933
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	10	15	15

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL BUILDING AUTOMATION

2021-2024

93,216 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Rebated DDC controls system must be new and installed in an existing building
- Both electric and gas heated sites are eligible
- Eligible sites must be a minimum of 50,000 square feet
- An assessment must be submitted in the design phase

Measures

- Efficient building automation system programming and HVAC equipment controls



Enrolled **4** customers, **5%** of planned participation



Achieved net annual energy savings of **372,863 kWh/year**, **3%** of planned energy savings



Spent **45%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	6,714	425,457	359,739	435,717	1,227,626
Total Program Participants (#)	0	0	0	4	4
Total Gross Incremental Savings (kWh/yr)	0	0	0	414,292	
Total Net Incremental Savings (kWh/yr)	0	0	0	372,863	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	47	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	42	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	275,580	1,865,406
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	42	42
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	0

NON-RESIDENTIAL BUILDING AUTOMATION

2022-2024

0 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Rebated DDC controls system must be new and installed in an existing building
- Both electric and gas heated sites are eligible
- Eligible sites must be a minimum of 50,000 square feet
- An assessment must be submitted in the design phase

Measures

- Efficient building automation system programming and HVAC equipment controls



Enrolled **0** customers, **0%** of planned participation



Achieved net annual energy savings of **0 kWh/year**, **0%** of planned energy savings



Spent **44%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	9,301	22,806	24,335	56,442
Total Program Participants (#)	0	0	0	
Total Gross Incremental Savings (kWh/yr)	0	0	0	
Total Net Incremental Savings (kWh/yr)	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	

NON-RESIDENTIAL ENGAGEMENT

2021-2024

0 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



The nature of the type of measures offered in this program requires long project lead-time, which may be one contributing factor to the lack of completed projects in 2023.

Measures

- Building operator training



Achieved net annual energy savings of
0 kWh/year, 0% of planned energy savings



Spent **40%** of planned expenditures

Category	2021	2022	2023	2024	Lifetime
Total Program Cost (\$)	8,109	599,509	547,994	629,991	1,785,603
Total Program Participants (#)	0	0	0	0	
Total Gross Incremental Savings (kWh/yr)	0	0	0	0	
Total Net Incremental Savings (kWh/yr)	0	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	0	
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	0	
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	0	

North Carolina

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NON-RESIDENTIAL ENGAGEMENT

2022-2024

0 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



The nature of the type of measures offered in this program requires long project lead-time, which may be one contributing factor to the lack of completed projects in 2023.

Measures

- Building operator training



Achieved net annual energy savings of
0 kWh/year, 0% of planned energy savings



Spent **45%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	15,022	34,327	51,087	100,436
Total Program Participants (#)	0	0	0	
Total Gross Incremental Savings (kWh/yr)	0	0	0	
Total Net Incremental Savings (kWh/yr)	0	0	0	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	0	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	0	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	0	
Total Net Lifetime Savings (kWh)	0	0	0	
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	0	
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	0	

NON-RESIDENTIAL DATA SERVER ROOMS

2022-2024

2,254 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures

Measures

- High-efficiency power supply unit (PSU)
- High-efficiency uninterruptible power supply (UPS)
- Electrotonically commutated motor
- High-efficiency computer room air conditioning (CRAC) unit or computer room air handler (CRAH) unit
- HVAC variable frequency drive
- Server room temperature setback
- Custom airflow
- Lighting fixtures, lamps, and delamping
- Occupancy sensors and daylight controls



Enrolled **2** customers, **17%** of planned participation



Achieved net annual energy savings of **4,508 kWh/year**, **0.23%** of planned energy savings



Spent **66%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	13,725	367,790	416,579	798,094
Total Program Participants (#)	0	0	2	2
Total Gross Incremental Savings (kWh/yr)	0	0	5,009	
Total Net Incremental Savings (kWh/yr)	0	0	4,508	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	1	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	1	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	1	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	1	
Total Net Lifetime Savings (kWh)	0	0	229	67,639
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	1	1
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	1	1

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)

High Efficiency
Power Supply
Unit (PSU)

5

NON-RESIDENTIAL HEALTHCARE ENERGY SOLUTIONS

2022-2024

9,728 kWh/yr Average Net Savings Per Participant

Eligibility

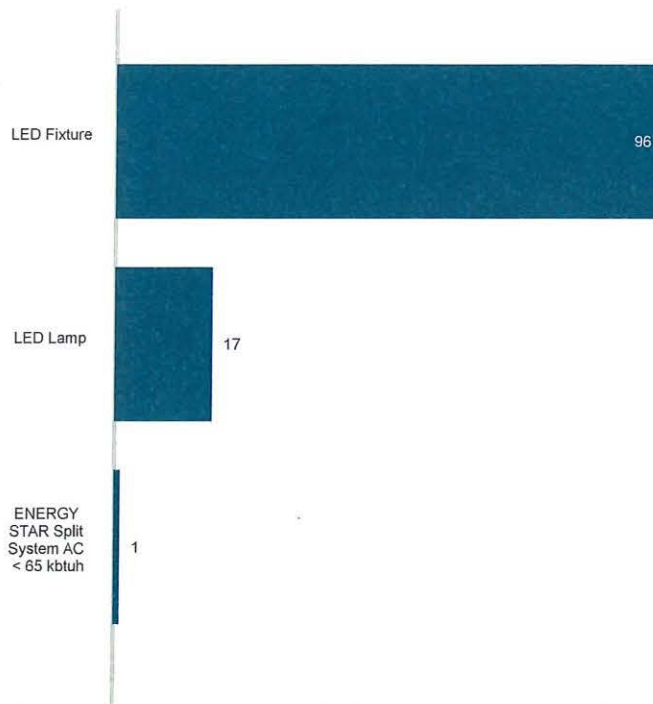
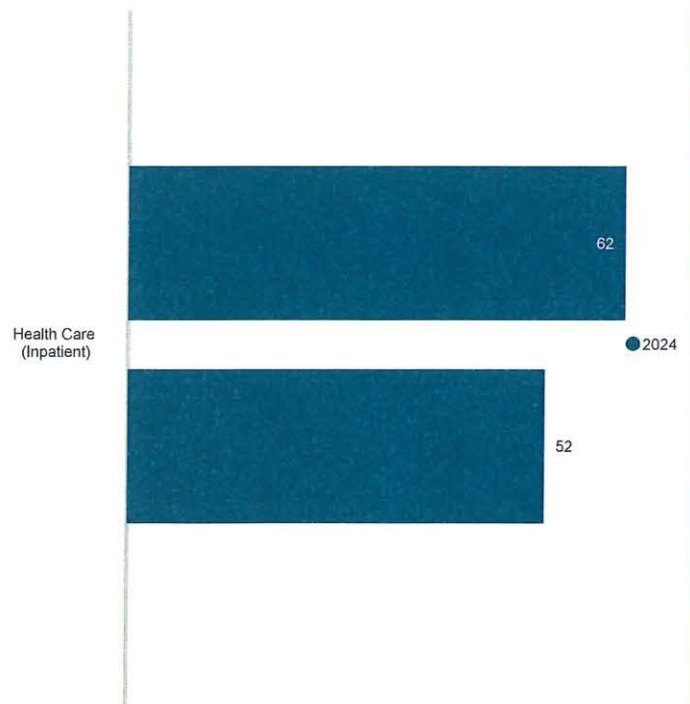
- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures

Measures

- Ice maker
- Smart strip
- Vending machine miser
- Window film
- Combination oven
- Convection oven
- Fryer
- Steam cooker
- VSD on kitchen exhaust fan
- Custom retro-commissioning
- Demand controlled ventilation
- Dual enthalpy economizers
- Duct testing and sealing
- Chiller upgrade
- Electrotonically commutated motor
- ENERGY STAR® room/wall AC
- Fan motor replacement
- Guest room occupancy
- HVAC tune-up
- HVAC VFD
- Smart thermostat installation
- AC and HP upgrade
- VRF and mini-split systems
- Bi-level LED reach-in case lighting
- Lighting fixtures, lamps, & delamping
- Occupancy sensors and controls
- Door closer
- Evaporator fan control
- ECM retrofit
- Floating head pressure control
- Low/Anti-sweat door film
- Low/anti-sweat door film
- Refrigeration coil cleaning
- Refrigeration night cover
- Strip curtain
- Suction pipe insulation

Enrolled **10** customers, **2%** of planned participationAchieved net annual energy savings of **97,284 kWh/year, 0.32%** of planned energy savingsSpent **10%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	3,009	418,936	520,593	942,538
Total Program Participants (#)	0	0	10	10
Total Gross Incremental Savings (kWh/yr)	0	0	114,451	
Total Net Incremental Savings (kWh/yr)	0	0	97,284	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	27	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	23	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	11	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	10	
Total Net Lifetime Savings (kWh)	0	0	40,982	830,153
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	23	23
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	10	10

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL HOTEL AND LODGING ENERGY SOLUTIONS

2022-2024

34,487 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures

Measures

- Ice maker
- ENERGY STAR® residential freezer
- ENERGY STAR residential refrigerator
- Smart strip
- Vending machine miser
- Window film
- Combination oven
- Convection oven
- Fryer
- Steam cooker
- Custom measure
- Demand controlled ventilation
- Dual enthalpy air-side economizers
- Duct testing and sealing
- Chiller upgrade
- Electrotonically commutated motor
- ENERGY STAR room/wall AC units
- Fan motor replacement
- Guest room occupancy
- HVAC tune-up
- HVAC VFD
- Smart thermostat installation
- AC & HP upgrade
- VRF and mini-split systems
- Bi-level LED reach-in case lighting
- Lighting fixtures, lamps, and delamping
- Occupancy sensors and controls
- Door closer
- Door gasket
- Evaporator fan control
- ECM retrofit
- Floating head pressure control
- Low/anti-sweat door film
- Refrigeration coil cleaning
- Refrigeration night cover
- Strip curtain
- Suction pipe insulation



Enrolled **55** customers, **14%** of planned participation

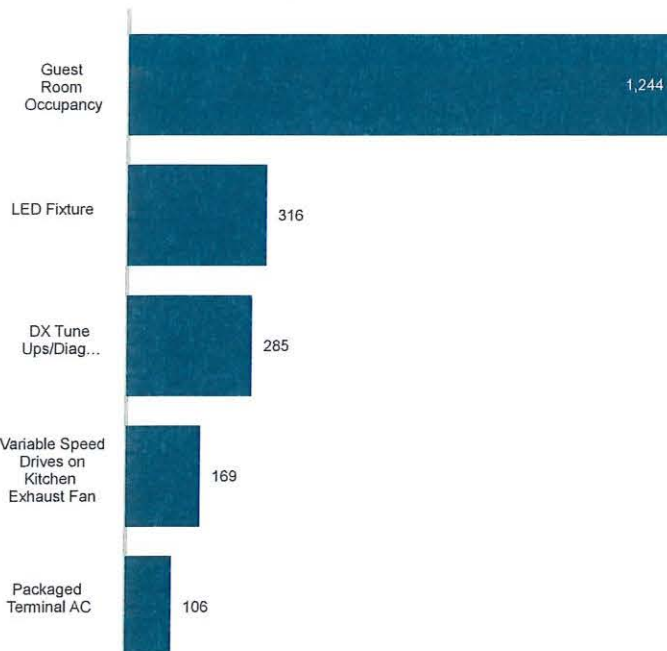


Achieved net annual energy savings of **1,897 MWh/year**, **7%** of planned energy savings



Spent **15%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	3,516	402,987	900,910	1,307,413
Total Program Participants (#)	0	0	55	55
Total Gross Incremental Savings (kWh/yr)	0	0	2,231,527	
Total Net Incremental Savings (kWh/yr)	0	0	1,896,798	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	128	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	109	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	87	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	74	
Total Net Lifetime Savings (kWh)	0	0	638,771	16,333,882
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	109	109
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	74	74

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

2022-2024

68,165 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by participating contractor

Measures

- T8 lamps with electronic ballast
- High-performance T8 lamps
- T5 lamps with electronic ballast
- LED lamps
- Occupancy sensors



Enrolled **828** customers, **45%** of planned participation

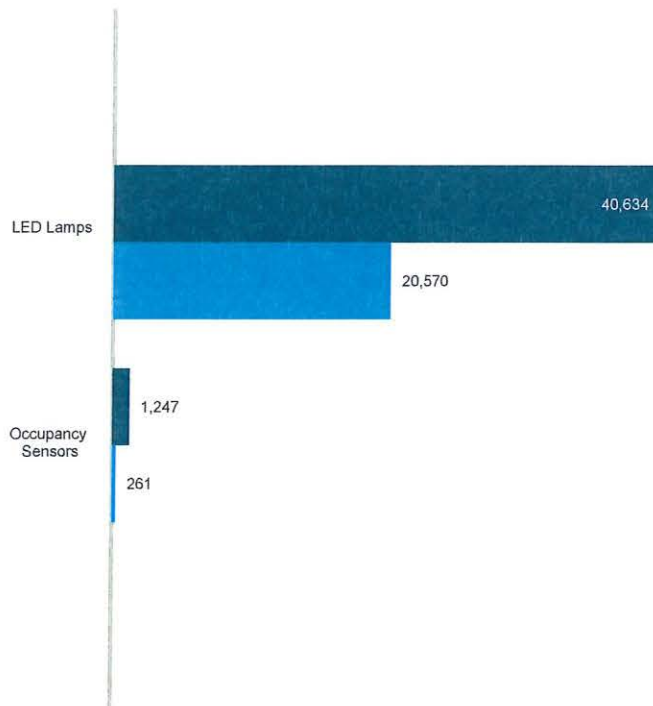
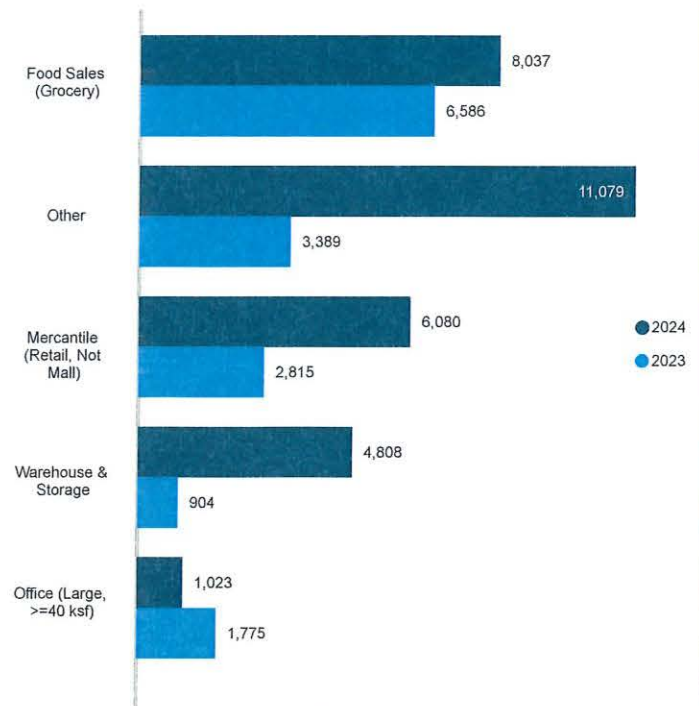


Achieved net annual energy savings of **56,441 MWh/year**, **45%** of planned energy savings



Spent **45%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	3,222	3,313,015	5,495,967	8,812,203
Total Program Participants (#)	0	259	569	828
Total Gross Incremental Savings (kWh/yr)	0	20,830,777	41,880,965	
Total Net Incremental Savings (kWh/yr)	0	18,747,700	37,692,869	
Peak Gross Inc. Summer Demand Reduction (kW)	0	3,478	7,472	
Peak Net Inc. Summer Demand Reduction (kW)	0	3,130	6,725	
Peak Gross Inc. Winter Demand Reduction (kW)	0	2,153	4,138	
Peak Net Inc. Winter Demand Reduction (kW)	0	1,938	3,724	
Total Net Lifetime Savings (kWh)	0	3,873,438	45,434,983	573,989,476
Peak Net Lifetime Summer Demand Reduction (kW)	0	3,130	9,855	9,855
Peak Net Lifetime Winter Demand Reduction (kW)	0	1,938	5,662	5,662

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)

North Carolina

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NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

2023-2024

144,612 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures
- Work must be completed by participating contractor

Measures

- T8 lamps with electronic ballast
- High-performance T8 lamps
- T5 lamps with electronic ballast
- LED lamps
- Occupancy sensors



Enrolled **31** customers, **27%** of planned participation



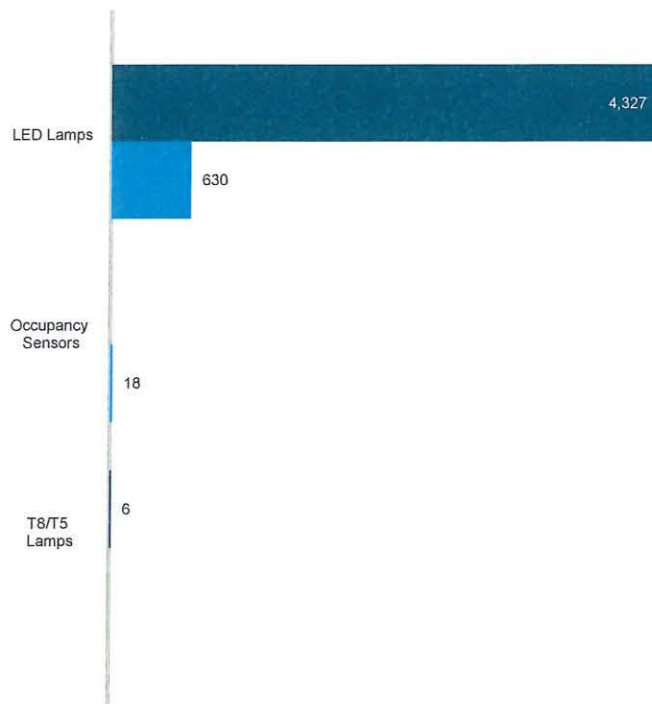
Achieved net annual energy savings of **4,483 MWh/year**, **56%** of planned energy savings



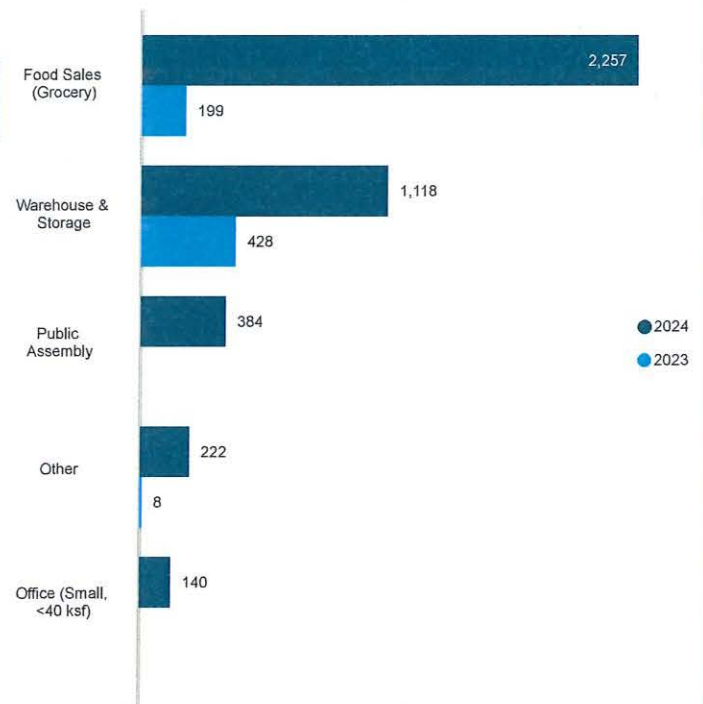
Spent **48%** of planned expenditures

Category	2023	2024	Lifetime
Total Program Cost (\$)	115,660	336,086	451,746
Total Program Participants (#)	5	26	31
Total Gross Incremental Savings (kWh/yr)	648,036	4,333,056	
Total Net Incremental Savings (kWh/yr)	583,232	3,899,750	
Peak Gross Inc. Summer Demand Reduction (kW)	123	865	
Peak Net Inc. Summer Demand Reduction (kW)	111	779	
Peak Gross Inc. Winter Demand Reduction (kW)	59	401	
Peak Net Inc. Winter Demand Reduction (kW)	53	361	
Total Net Lifetime Savings (kWh)	100,712	3,656,011	45,583,684
Peak Net Lifetime Summer Demand Reduction (kW)	111	890	890
Peak Net Lifetime Winter Demand Reduction (kW)	53	414	414

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)



TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



NON-RESIDENTIAL SMALL BUSINESS BEHAVIORAL

2022-2024

206 kWh/yr Average Net Savings Per Participant

Eligibility

- Report recipients are selected to participate using a randomized control trial (RCT) experimental design



Enrolled **35,210** customers, **44%** of planned participation

Measures

- Monthly digital and paper energy reports
- Coaching and recommendations on energy savings opportunities



Achieved net annual energy savings of **7,256 MWh/year**, **24%** of planned energy savings



Spent **74%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	2,244	1,089,031	801,999	1,893,274
Total Program Participants (#)	0	0	35,210	35,210
Total Gross Incremental Savings (kWh/yr)	0	0	7,255,513	
Total Net Incremental Savings (kWh/yr)	0	0	7,255,513	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	4,014	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	4,014	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	713	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	713	
Total Net Lifetime Savings (kWh)	0	0	616,648	7,279,246
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	4,014	4,014
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	713	713

NON-RESIDENTIAL CUSTOM

2023-2024

27,675 kWh/yr Average Net Savings Per Participant

Eligibility

- All non-residential customers are eligible except those exempt by statute, special contract, or opt out
- Must be the owner of the facility or reasonably able to secure permission to complete measures



Enrolled **7** customers, **13%** of planned participation



Achieved net annual energy savings of **193,726 kWh/year**, **2%** of planned energy savings

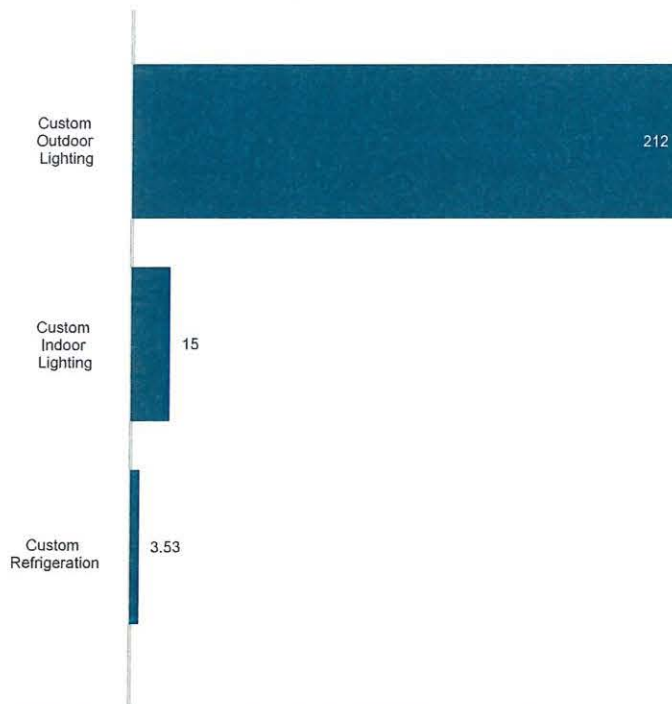
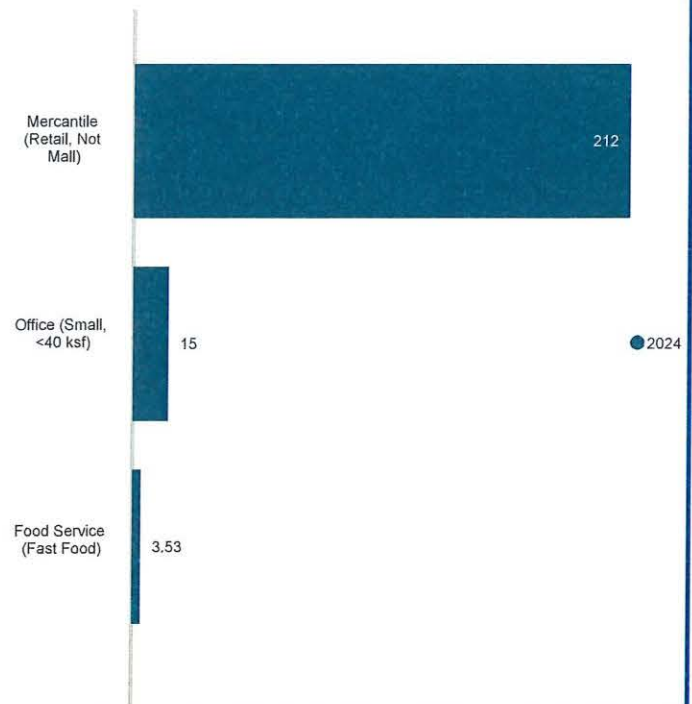


Spent **21%** of planned expenditures

Measures

- Motors and drives
- Pumps and fans
- Process controls
- EMS/HVAC controls
- Refrigeration upgrades
- Lighting

Category	2023	2024	Lifetime
Total Program Cost (\$)	10,441	784,589	795,030
Total Program Participants (#)	0	7	7
Total Gross Incremental Savings (kWh/yr)	0	230,626	
Total Net Incremental Savings (kWh/yr)	0	193,726	
Peak Gross Inc. Summer Demand Reduction (kW)	0	10	
Peak Net Inc. Summer Demand Reduction (kW)	0	8	
Peak Gross Inc. Winter Demand Reduction (kW)	0	33	
Peak Net Inc. Winter Demand Reduction (kW)	0	27	
Total Net Lifetime Savings (kWh)	0	11,529	1,972,740
Peak Net Lifetime Summer Demand Reduction (kW)	0	8	8
Peak Net Lifetime Winter Demand Reduction (kW)	0	27	27

TOTAL SAVINGS BY MEASURE TYPE
(MWH/YR)TOTAL SAVINGS BY BUILDING TYPE
(MWH/YR)



DNV



5

ENERGY EFFICIENCY – ALL SECTORS

Table 5-1. All sectors energy efficiency programs open to enrollment or had savings in 2024

DSM Phase	Acronym	Program	VA	NC
X	VOPT	Voltage Optimization	✓	

VOLTAGE OPTIMIZATION

2022-2024

841,127 kWh/yr Average Net Savings Per Participant

Program Description

Voltage optimization ("VO") is an energy efficiency program designed to reduce energy consumption for a wide cross-section of customers by controlling the supplied voltage, while still ensuring service voltage meets industry standards for delivered voltage (114V to 126V for residential customers).



Implemented **31** circuits, **10%** of planned participation



Achieved net annual energy savings of **26,075 MWh/year**, **16%** of planned energy savings



Spent **76%** of planned expenditures

Category	2022	2023	2024	Lifetime
Total Program Cost (\$)	32,625	4,405,299	707,531	5,145,455
Total Program Participants (#)	0	0	31	31
Total Gross Incremental Savings (kWh/yr)	0	0	26,074,937	
Total Net Incremental Savings (kWh/yr)	0	0	26,074,937	
Peak Gross Inc. Summer Demand Reduction (kW)	0	0	8,192	
Peak Net Inc. Summer Demand Reduction (kW)	0	0	8,192	
Peak Gross Inc. Winter Demand Reduction (kW)	0	0	8,180	
Peak Net Inc. Winter Demand Reduction (kW)	0	0	8,180	
Total Net Lifetime Savings (kWh)	0	0	5,865,215	5,865,215
Peak Net Lifetime Summer Demand Reduction (kW)	0	0	8,192	8,192
Peak Net Lifetime Winter Demand Reduction (kW)	0	0	8,180	8,180



Table 6-1. Active Peak Shaving programs in 2024

DSM Phase	Acronym	Program	VA	NC
Residential				
VIII	REVDR	Electric Vehicle Rewards	✓	
XI	RPIL	Electric Vehicle Telematics Pilot	✓	
VIII	RTDR	Smart Thermostat Rewards	✓	✓
IX	RWDR	Water Savings Demand Response	✓	✓
XI	RPTR	Peak Time Rebate	✓	
Non-Residential				
II	DG	Distributed Generation	✓	

Figure 6-1 and Figure 6-2 show the cumulative count of Peak Shaving program participation in the two states, for the active programs, at the zip code level, through December 31, 2024. The deeper the color, the greater the participation and load reduction.

Figure 6-1. Virginia and North Carolina Peak Shaving program participation, by zip code

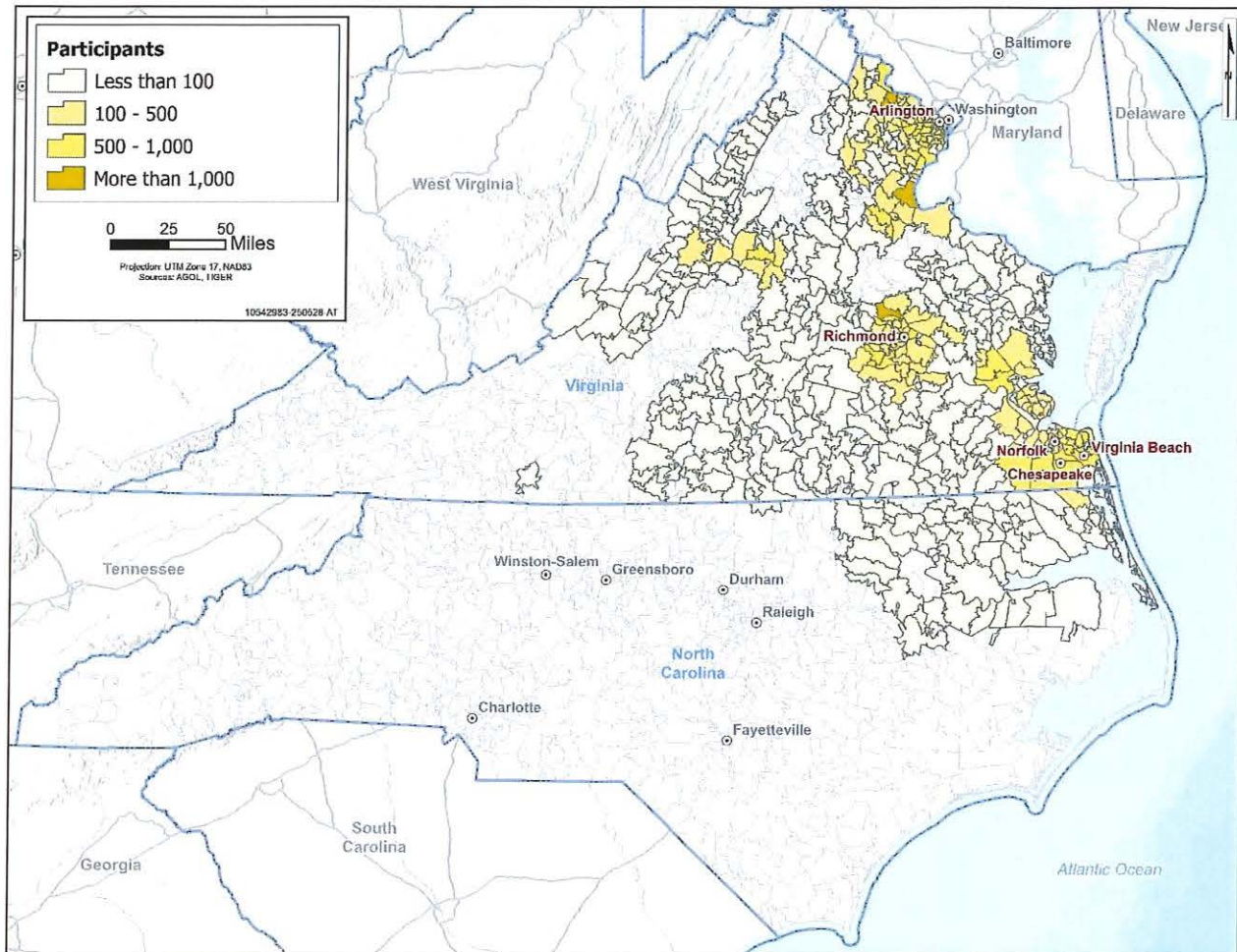
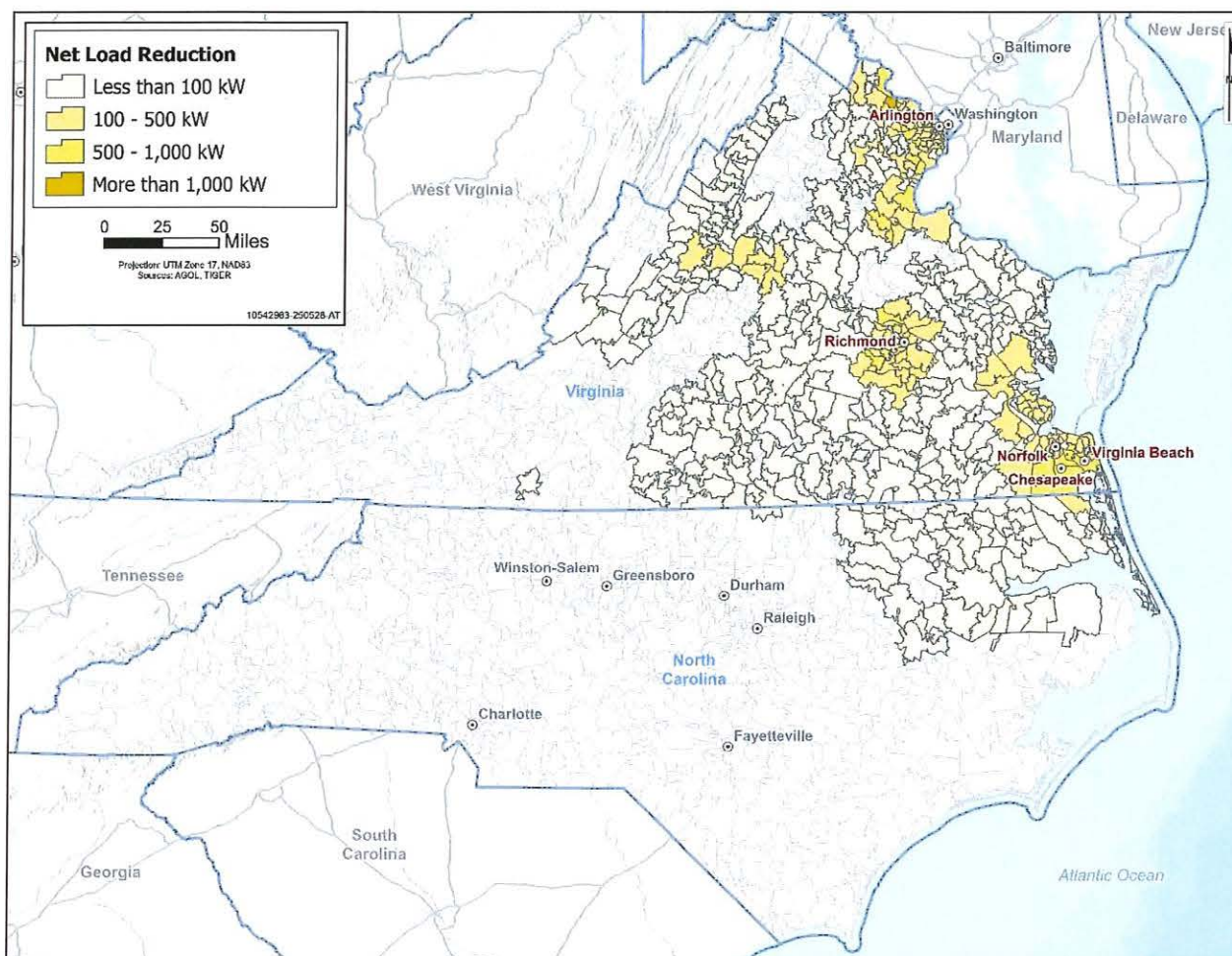


Figure 6-2. Virginia and North Carolina Peak Shaving net load reduction, by zip code



RESIDENTIAL ELECTRIC VEHICLE REWARDS

2020-2024

0.20 kW/participant Demand Reduction Potential

Eligibility

- Customer must own an eligible Level 2 EV charger



Enrolled **2,283** customers, **120%** of planned participation



Achieved **460 kW** of demand reduction, **24%** of planned potential



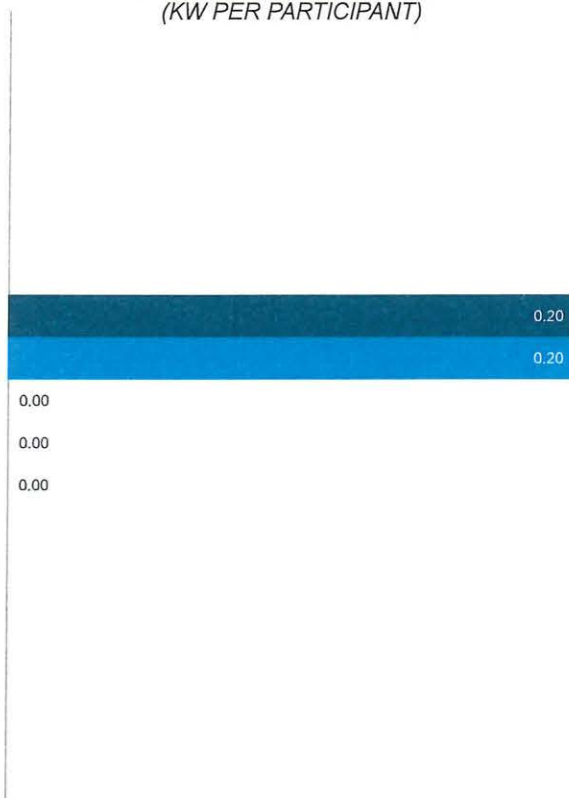
Spent **53%** of planned expenditures

Measures

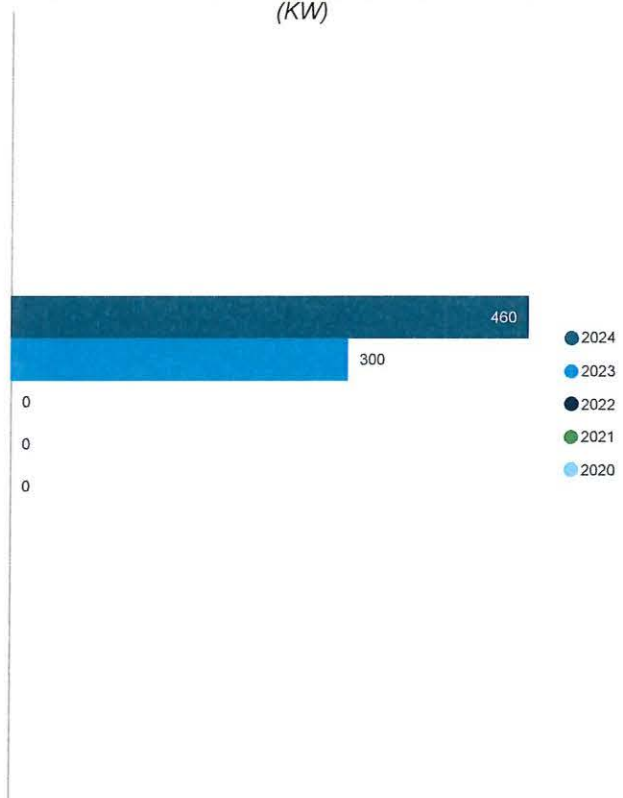
- Reduced electric vehicle charging loads during periods of peak grid electricity demand

Category	2020	2021	2022	2023	2024
Total Program Cost (\$)	14,034	182,492	178,959	70,466	290,694
Total Program Participants (adjusted)	0	0	685	1,491	2,283
Demand Reduction at Peak Planning (kW/participant)	0.00	0.00	0.00	0.20	0.20
Dispatchable Peak Shaving Potential (kW)	0	0	0	300	460

ESTIMATED PEAK SAVINGS POTENTIAL
(KW PER PARTICIPANT)



DISPATCHABLE PEAK SHAVING POTENTIAL
(KW)



RESIDENTIAL ELECTRIC VEHICLE TELEMATICS PILOT

2023-2024

0.20 kW/participant Demand Reduction Potential

Eligibility

- Must be a customer of Dominion Energy and reside in Virginia
- Have a qualifying Tesla electric vehicle
- Vehicle connection required for duration of program
- Must charge at home with a Level 1 or Level 2 charger



Enrolled **601** customers, **180%** of planned participation



Achieved **120 kW** of dispatchable peak shaving potential, **36%** of planned potential

Measures

- Reduced electric vehicle charging loads during periods of peak grid electricity demand



Spent **61%** of planned expenditures

Category	2023	2024
Total Program Cost (\$)	8,237	138,776
Total Program Participants (adjusted)	0	601
Demand Reduction at Peak Planning (kW/participant)	0.00	0.20
Dispatchable Peak Shaving Potential (kW)	0	120

RESIDENTIAL SMART THERMOSTAT REWARDS

2020-2024

1.28 kW/participant Demand Reduction Potential

Eligibility

- Single-family detached, attached, and manufactured homes with a heat pump or a central air conditioning system
- Residential customers who have a qualifying smart thermostat

Measures

- Peak demand response program for central air conditioners and heat pumps



Enrolled **41,078** customers, **114%** of planned participation



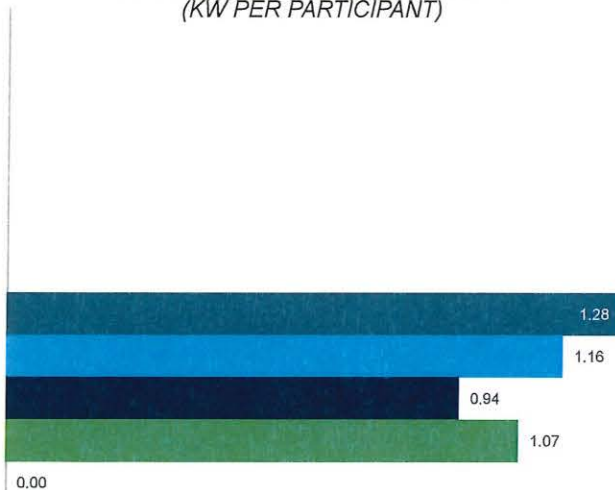
Achieved **52,399 kW** of dispatchable peak shaving potential, **91%** of planned potential



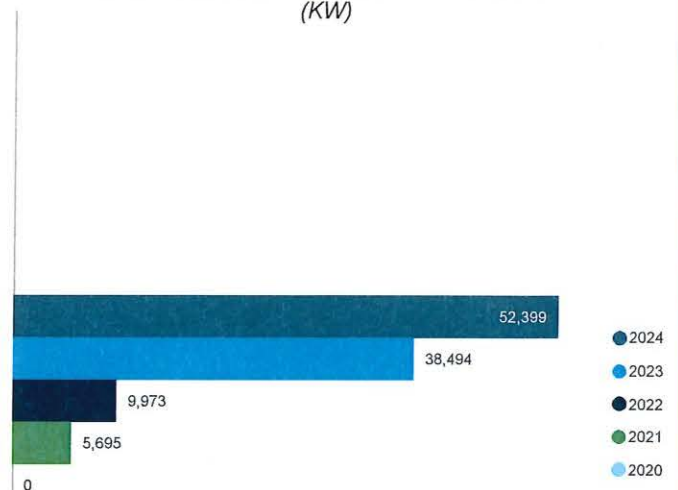
Spent **80%** of planned expenditures

Category	2020	2021	2022	2023	2024
Total Program Cost (\$)	96,743	724,644	1,143,292	2,160,129	2,736,394
Total Program Participants (adjusted)	0	5,347	10,610	33,314	41,078
Demand Reduction at Peak Planning (kW/participant)	0.00	1.07	0.94	1.16	1.28
Dispatchable Peak Shaving Potential (kW)	0	5,695	9,973	38,494	52,399

ESTIMATED PEAK SAVINGS POTENTIAL
(KW PER PARTICIPANT)



DISPATCHABLE PEAK SHAVING POTENTIAL
(KW)



• The SCC approved the Smart Thermostat Rewards Program as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). Following additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020, as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.

RESIDENTIAL SMART THERMOSTAT REWARDS

2021-2024

1.28 kW/participant Demand Reduction Potential

Eligibility

- Single-family detached, attached, and manufactured homes with a heat pump or a central air conditioning system
- Residential customers who have a qualifying smart thermostat

Measures

- Peak demand response program for central air conditioners and heat pumps



Enrolled **754** customers, **33%** of planned participation



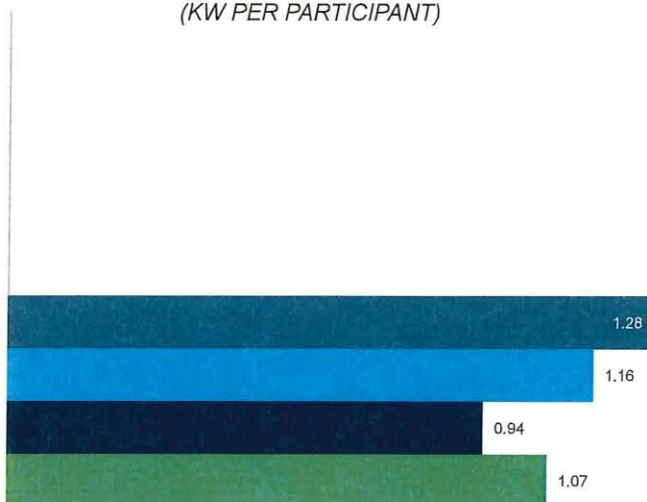
Achieved **962 kW** of dispatchable peak shaving potential, **26%** of planned potential



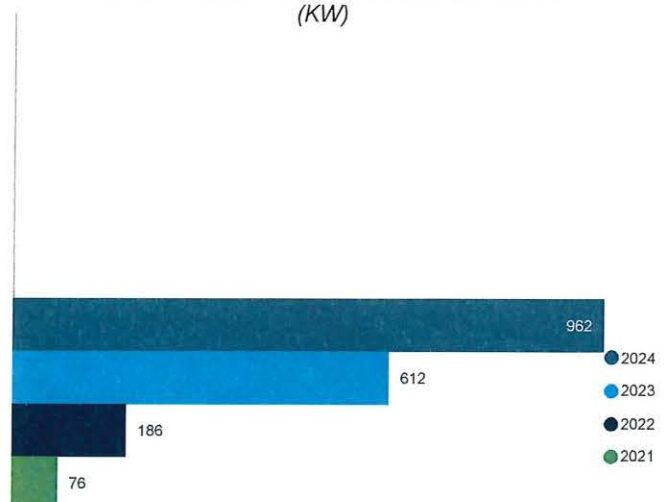
Spent **46%** of planned expenditures

Category	2021	2022	2023	2024
Total Program Cost (\$)	18,350	44,643	56,984	81,916
Total Program Participants (adjusted)	71	198	530	754
Demand Reduction at Peak Planning (kW/participant)	1.07	0.94	1.16	1.28
Dispatchable Peak Shaving Potential (kW)	76	186	612	962

ESTIMATED PEAK SAVINGS POTENTIAL (KW PER PARTICIPANT)



DISPATCHABLE PEAK SHAVING POTENTIAL (KW)



- The SCC approved the Smart Thermostat Rewards Program as part of the DSM Phase VII programs on May 2, 2019 (Case No. PUR-2018-00168). Following additional review, the program was refiled in Virginia at the end of 2019 and re-approved on July 30, 2020, as part of the DSM Phase VIII programs (Case No. PUR-2019-00201). As a result, the implementation schedule was delayed a year.

RESIDENTIAL WATER SAVINGS DEMAND RESPONSE

2021-2024

0.00 kW/participant Demand Reduction Potential

Eligibility

- Customer must be responsible for the electric bill, own the residence or secure permission to perform the recommended improvements

Enrolled **12** customers, **0.29%** of planned participation

Measures

- Residential heat pump water heater demand response

Achieved **0 kW** of demand reduction, **0%** of planned potentialSpent **33%** of planned expenditures

Category	2021	2022	2023	2024
Total Program Cost (\$)	9,167	149,786	93,391	96,322
Total Program Participants (adjusted)	0	0	8	12
Demand Reduction at Peak Planning (kW/participant)	0.00	0.00	0.00	0.00
Dispatchable Peak Shaving Potential (kW)	0	0	0	0

RESIDENTIAL WATER SAVINGS DEMAND RESPONSE

2022-2024

0.00 kW/participant Demand Reduction Potential

Eligibility

- Customer must be responsible for the electric bill, own the residence or secure permission to perform the recommended improvements



Enrolled **0** customers, **0%** of planned participation

Measures

- Residential heat pump water heater demand response



Achieved **0 kW** of demand reduction, **0%** of planned potential



Spent **32%** of planned expenditures

Category	2022	2023	2024
Total Program Cost (\$)	2,910	5,572	5,533
Total Program Participants (adjusted)	0	0	0
Demand Reduction at Peak Planning (kW/participant)	0.00	0.00	0.00
Dispatchable Peak Shaving Potential (kW)	0	0	0

RESIDENTIAL PEAK TIME REBATE

2023-2024

0.00 kW/participant Demand Reduction Potential

Eligibility

- Customers must receive electric supply and delivery on a Dominion residential rate schedule and be responsible for their own electric bill.
- Customers that are already enrolled in the Smart Thermostat Rewards, EV Charger Rewards, or Water Energy Savings programs are ineligible for this program

Measures

- Residential peak time demand response



Enrolled **20,117** customers, **80%** of planned participation



Achieved **0 kW** of dispatchable peak shaving potential, **0%** of planned potential



Spent **66%** of planned expenditures

Category	2023	2024
Total Program Cost (\$)	16,970	2,396,483
Total Program Participants (adjusted)	0	20,117
Demand Reduction at Peak Planning (kW/participant)	0.00	0.00
Dispatchable Peak Shaving Potential (kW)	0	0

NON-RESIDENTIAL DISTRIBUTED GENERATION

2012-2024

5.78 MW Average Net Savings per Participant

Eligibility

- Large non-residential customers with at least 200 kW of dispatchable generation
- One participant is defined as 1 megawatt (MW) of enrolled capacity
- A participating site may be counted as a fraction of a participant depending on enrolled generation

Events

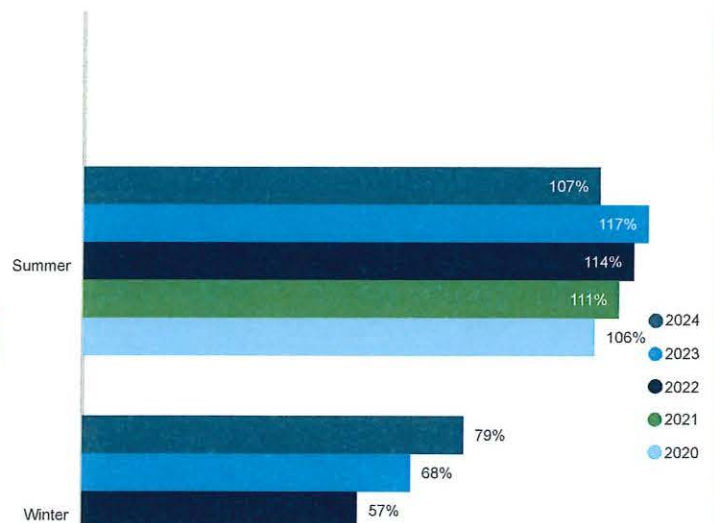
- When electric demand is high, DG sites operate backup generators to reduce load on the system
- 31 events were called in 2024



21 sites enrolled 5.78 MW

Achieved overall annual **realization rate of 105%**Spent **48%** of planned expenditures

Category	2020	2021	2022	2023	2024
Total Program Cost (\$)	570,747	608,132	620,104	475,594	428,685
Total Program Participants (adjusted)	6.1	6.0	5.9	5.8	5.8
Demand Reduction at Peak Planning (kW/participant)	1,060	1,110	1,040	1,163	1,051
Dispatchable Peak Shaving Potential (kW)	6,498	6,627	6,115	6,688	6,077

TOTAL DEMAND SAVINGS
BY YEARREALIZATION RATE BY YEAR/SEASON
MEASURED GENERATION / DISPATCHED GENERATION



APPENDIX A. COMPLIANCE MATRIX

Appendix A. Compliance Matrix

Item No.	Reporting Items	Required In	Required in EMV Summary?	Level	Location in EM&V Report
1	DE Dashboard	SCC EM&V Order* p.19	No	Portfolio	Executive Summary
2	Progress towards GTSA proposed spending targets	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
3	Projections towards GTSA proposed spending targets	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
4	Actual spending on a portfolio level	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
5	The share of total spending on DSM Programs designed to benefit low income, elderly, or disabled individuals, or veterans	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
6	Progress towards VCEA energy savings targets	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
7	Projections towards VCEA energy savings targets	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
8	Actual energy savings on a portfolio level (net and gross)	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
9	Energy savings from all programs as a share of total sales	SCC EM&V Order p.19	No	Portfolio	Executive Summary
10	Demand savings on a portfolio level (net and gross)	SCC EM&V Order p.19	Yes	Portfolio	Executive Summary
11	Actual spending on a program level	SCC EM&V Order p.19, VCEA~	Yes	Program	Executive Summary
12	Actual energy savings on a program level (net and gross)	SCC EM&V Order p.19	Yes	Program	Executive Summary
13	Lifetime energy savings on a program level (net and gross)	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
14	Demand savings on a program level (net and gross)	SCC EM&V Order p.19	Yes	Program	Executive Summary
15	Program operation years	SCC EM&V Order p.19	Yes	Program	Executive Summary
16	Program budgets	SCC EM&V Order p.19	Yes	Program	Executive Summary
17	Program spending as a percentage of budget	SCC EM&V Order p.19	Yes	Program	Executive Summary
18	Program participation	SCC EM&V Order p.19	Yes	Program	Executive Summary
19	Program cost per customer	SCC EM&V Order p.19	Yes	Program	Executive Summary
20	DSM-related emissions reductions	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
21	"Other quantifiable benefits of each program"	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
22	Total customer bill savings	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
23	Administrative costs by program	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
24	Avoided costs	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
25	Program cost-effectiveness results	SCC EM&V Order p.19, VCEA	Yes	Program	Executive Summary
26	Number of Measures	SCC EM&V Order p.17	No	Program	Executive Summary
27	EM&V Plans	SCC EM&V Rule# 5-318-30	No	Program	Appendix E. Evaluation, Measurement and Verification Plans
28	Comparison to originally approved estimated savings for the measures or programs that were approved by the Commission	SCC EM&V Rule 5-318-50 F	No	Program	Appendix K. Program Performance Indicator Tables for Virginia 2010-2024 Appendix L. Program Performance Indicator Tables for North Carolina 2010-2024
29	Actual cost incurred by utility and each EM&V contractor for development of most recent EM&V plan and administration of EM&V activities for reporting period	SCC EM&V Rule 5-318-50 H	Yes	Program	Appendices K and L
30	Annual (net and gross) energy savings	VCEA		Program	Appendices K and L
31	Capacity savings (net and gross)	VCEA		Program	Appendices K and L
32	Lifecycle capacity savings (net and gross)	VCEA		Program	Appendix M. Incremental and Cumulative Participation, Gross, and Net Energy Savings, and Non-coincident Gross Peak Demand Reductions
33	The above metrics aggregated for residential programs	SCC EM&V Order p.19	Yes	Sector	Executive Summary
34	The above metrics aggregated for non-residential programs	SCC EM&V Order p.19	Yes	Sector	Executive Summary
35	Relevant workpapers, support documents, assumptions, and equations used to develop M&V methods of measures or programs	SCC EM&V Rule 5-318-40 B	No	Measure	Appendix F. Dominion Energy Technical Reference Manual version 2024
36	Measure-level estimates of kWh, kW (net, gross)	SCC EM&V Rule 5-318-40 C	No	Measure	Appendices K and L
37	Changes to or variances from originally approved measure-level inputs and assumptions estimates for DSM program or measure shall be quantified	SCC EM&V Rule 5-318-50 C	No	Measure	N/A for Phase I - IX programs. Appendix F, for Phase X
38	Describe method by which measured data was collected to include at minimum: Sampling plan Statistical calculation upon which reported data is based when applicable Explain eligibility requirements for each rate schedule to which measure or programs are offered	SCC EM&V Rule 5-318-50 D	No	Program / Measure	Appendix D. Methodologies Appendix E. Evaluation, Measurement, and Verification Plans Appendix F. Dominion Energy Technical Reference Manual 2024 Appendix G. Residential Electric Vehicle Rewards Impact Evaluation Appendix H. Residential Electric Telematics Pilot Impact Evaluation Appendix I. Residential Smart Thermostat Rewards Impact Evaluation Appendix J. Non-Residential Distributed Generation Program Impact Evaluation
39	Comparison of measured annual measure or program savings estimates to annual usage of average rate schedule usage in each rate schedule	SCC EM&V Rule 5-318-50 F	No	Rate schedule	Appendices K and L
40	Comparison of measured annual measure or program savings estimates to annual usage of and eligible customer in each rate schedule	SCC EM&V Rule 5-318-50 F	No	Rate schedule	Appendices K and L
41	Description of the controls undertaken by the utility to verify proper installation of measures or programs, as appropriate	SCC EM&V Rule 5-318-50 G	No	Program / Measure	Available upon request
42	Utilities shall require contractors and subcontractors will be implementing measures or programs, if applicable and practicable, to record details of serviced or replaced equipment, to include at minimum: 1. Nameplate efficiency rating; 2. Serial numbers; 3. Model numbers This information will be made available to Staff upon request	SCC EM&V Rule 5-318-50 G	No	N/A - Program	Available upon request
43	Make report easily and publicly accessible online	VCEA	No	Measure, Program, Portfolio	N/A
44	If applicable, implement changes and/or corrections to vintage savings recommended by the Public Staff and accepted by the NCUC in the previous DSM/EE cost recovery case	See e.g., Public Staff testimony in NCUC Docket No. E-22, Sub 604 (Oct. 26, 2021)	No	Measure, Program, Portfolio	N/A
45	Demonstrate results achieved by DSM/EE measure/programs	NCUC Rule R6-68(3)(v)	No	Measure, Program, Portfolio	This instant report
46	Evaluate, measure, verify, and validate energy and peak demand savings estimated in program application	NCUC Rule R6-68(3)(ii)	No	Program, Portfolio	This instant report
47	Track cost savings to support annual cost recovery cases.	See NCUC Rule R6-69(f)(1)-(ii)-(ii)	No	Program, Portfolio	N/A
48	Verify kWh sales reductions and kW savings to support recoverable net lost revenues.	NC DSM/EE Cost Recovery Mechanism, Item No. 59 (NCUC Docket No. E-22, Sub 464, May 2017) (NC Mechanism)	No	Program	Appendices F, K, L, and M
49	Verify net dollar savings to support any portfolio performance incentive ("PPI") for each vintage year	NC Mechanism, Item No. 48	No	Program, Portfolio	This instant report, and general EM&V activities
50	Be based on industry-accepted protocols for the particular program or measure	NC Mechanism, Item No. 45	No	Measure, Program, Portfolio	Appendix D. Methodologies Appendix E. Evaluation, Measurement, and Verification Plans Appendix F. Dominion Energy Technical Reference Manual 2024 Appendix G. Residential Electric Vehicle Rewards Impact Evaluation Appendix H. Residential Electric Telematics Pilot Impact Evaluation Appendix I. Residential Smart Thermostat Rewards Impact Evaluation Appendix J. Non-Residential Distributed Generation Program Impact Evaluation
51	Include the updated cost/benefit analysis of the DSM programs, along with a comparison of the updated cost/benefit analysis to the original cost/benefit analysis as well as all other cost/benefit analyses from prior EM&V Reports.	SCC 2021 DSM Final Order p. 10-11 ⁺	No	Program	Appendices K and L
52	Include the year's projected cost per kWh and actual cost per kWh	SCC 2023 DSM Update Final Order ⁺	No	Portfolio	Executive Summary

* SCC EM&V Order: Final Order to SCC Case No. PUR-2020-00156, October 27, 2021. <https://scc.virginia.gov/DocketSearch#caseDocs/141015>

~ VCEA: Code of Virginia, Titled 56, Public Service Companies, Chapter 23, Virginia Electric Utility Regulation Act, April 11, 2020. <https://lis.virginia.gov/cgi-bin/legp604.exe?201+sum+HB1526>

EM&V Rule 5-318-50G, January 2018. <https://law.lis.virginia.gov/admincode/titled20/agency5/chapter318/section50/>

+ SCC 2021 DSM Final Order to SCC Case No. PUR-2021-00247, August 10, 2022. <https://www.scc.virginia.gov/docketsearch#caseDocs/142611>

+ SCC 2023 DSM Final Order to SCC Case No. PUR-2023-00217, July 26, 2024. <https://www.scc.virginia.gov/docketsearch#caseDocs/144737>