



# EVALUATION, MEASUREMENT, AND VERIFICATION REPORT

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

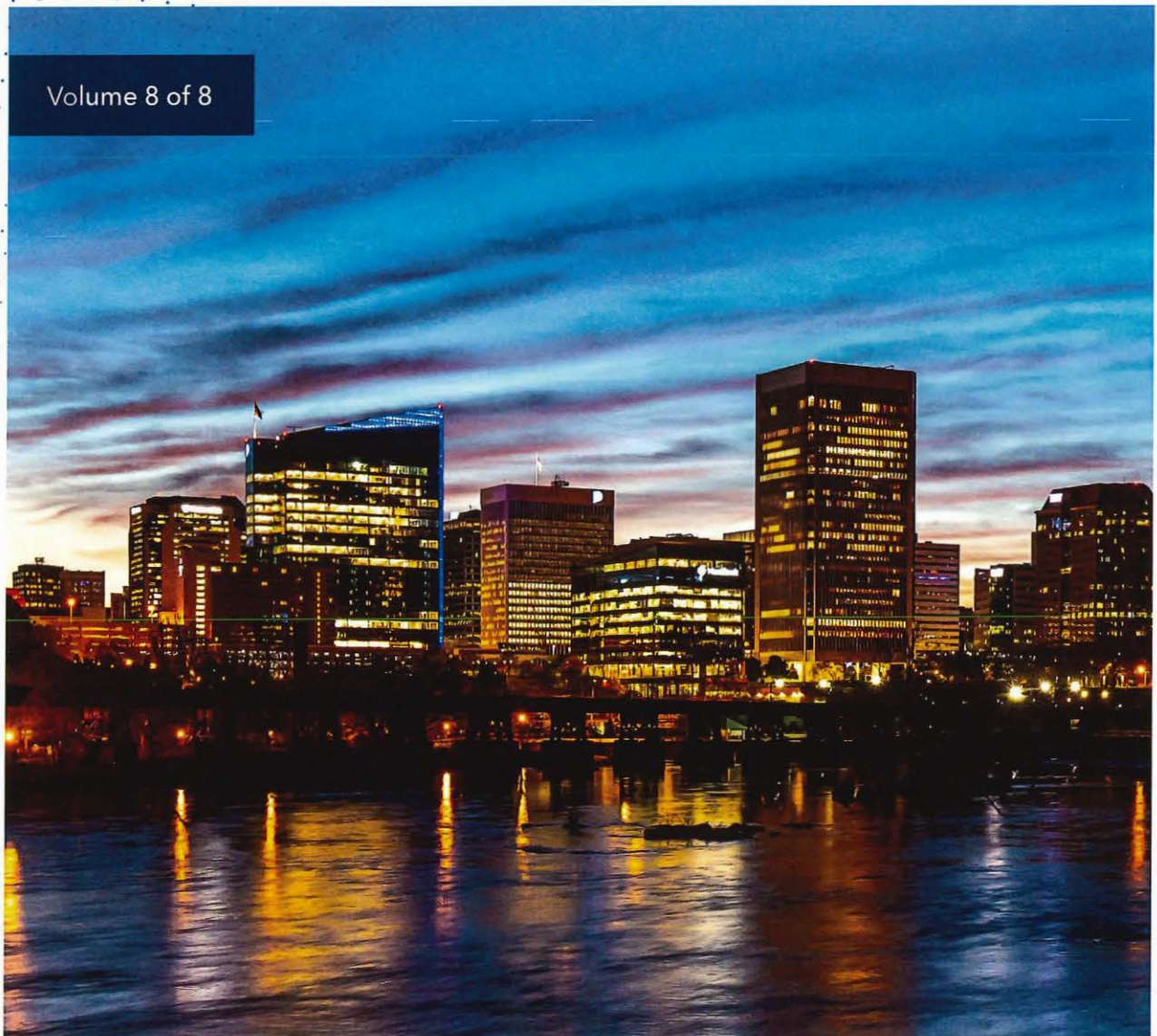
Case No. PUR-2022-00210 (Virginia)  
Docket No. E-22, Sub 676 (North Carolina)

Public version

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Prepared by DNV Energy Insights USA Inc. (DNV)

Volume 8 of 8







J.49.2 2023 Virginia Residential Income and Age Qualifying Bundle Program (Phase XI)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
11	Residential Income and Age Qualifying Bundle	2023	VA	PUR-2022-00210	∞	0.09	0.09	0.08
11	Residential Income and Age Qualifying Bundle	2024	VA	PUR-2022-00210	∞	0.09	0.09	0.08



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**J.50 Virginia Residential Telematics Vehicle Charger Pilot Program (Phase XI) 2023**

**J.50.1 2023 Virginia Residential Telematics Vehicle Charger Pilot Program (Phase XI)  
Monthly Indicator Tables**

VA - Residential Telematics Vehicle Charger Pilot Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$172	\$125	\$124	\$135	\$557	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,545	\$1,853	\$1,838	\$2,000	\$8,237	
Costs (\$)		Planned	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,545	\$1,853	\$1,838	\$2,000	\$8,237	
		Annual % of Planned	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Removals (Uninstalled) / Deactivations	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Opt-outs	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Adjusted Participants (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Participation (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Variance (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Cum % Toward Planned Total (Net Basis)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Average % Opt-outs (Rate)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		Ex-Ante Estimated kW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Dispatchable Summer Peak Shaving Potential - Total kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Summer Demand (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned Summer Demand (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Cum. % Toward Planned Total (Net Basis)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Dispatchable Summer Peak Shaving Potential kW per Participant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		\$EM&V per \$Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0%	0.0%	0.0%	0.0%	0.0%	
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



J.50.2 2023 Virginia Residential Telematics Vehicle Charger Pilot Program (Phase XI)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
11	Residential Telematics Vehicle Charger Pilot	2023	VA	PUR-2022-00210	21.29	0.29	0.32	0.29
11	Residential Telematics Vehicle Charger Pilot	2024	VA	PUR-2022-00210	21.29	0.29	0.32	0.29



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J.51 Virginia Residential Peak Time Rebate Program (Phase XI) 2023

J.51.1 2023 Virginia Residential Peak Time Rebate Program (Phase XI) Monthly Indicator Tables

VA - Residential Peak Time Rebate Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$222	\$293	\$343	\$290	\$1,147	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,283	\$4,330	\$5,071	\$4,286	\$16,970	
Costs (\$)		Planned	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,283	\$4,330	\$5,071	\$4,286	\$16,970	
		Annual % of Planned	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Removals (Uninstalled) / Deactivations	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Opt-outs	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Adjusted Participants (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Participation (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Variance (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Cum % Toward Planned Total (Net Basis)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Average % Opt-outs (Rate)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
		Ex-Ante Estimated kW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Dispatchable Summer Peak Shaving Potential - Total kW	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Summer Demand (Cum.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned Summer Demand (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Cum. % Toward Planned Total (Net Basis)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Dispatchable Summer Peak Shaving Potential kW per Participant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		\$EM&V per \$Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0%	0.0%	0.0%	0.0%	0.0%	
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



J.51.2 2023 Virginia Residential Peak Time Rebate Program (Phase XI) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
11	Residential Peak Time Rebate	2023	VA	PUR-2022-00210	14.60	1.05	1.83	1.05
11	Residential Peak Time Rebate	2024	VA	PUR-2022-00210	14.60	1.05	1.83	1.05



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J.52 Virginia Residential Lighting Program (Phase I) 2010–2012

J.52.1 2010-2012 Virginia Residential Lighting Program (Phase I) Annual Indicator Tables

VA - Residential Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
O&M (\$)		Direct Rebate				
O&M (\$)		Direct Implementation				
O&M (\$)		Direct EM&V				
O&M (\$)		Indirect Other (Administrative)				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$3,572,757	\$3,608,825	\$41,017	\$7,222,598
Costs (\$)		Planned	\$5,343,451	\$4,151,099	\$64,063	\$9,558,613
Costs (\$)		Variance	-\$1,770,694	-\$542,275	-\$23,046	-\$2,336,015
		Annual % of Planned	67%	87%	64%	76%
Participants <sup>1</sup>		Total (Gross)	2,016,479	2,206,030	0	4,222,509
		Planned	2,013,600	2,001,784	0	4,015,384
		Variance	2,879	204,246	0	207,125
		Annual % of Planned (Gross)	100%	110%	N/A	105%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	101,640,578	116,730,746	0	218,371,325
		Realization Rate Weighted by Measure	84%	84%	N/A	84%
		Realization Rate Adjustment (kWh/yr)	-16,262,493	-18,676,919	0	-34,939,412
		Realization Rate Adjusted Savings (kWh/yr)	85,378,086	98,053,827	0	183,431,913
		Net-To-Gross Rate Weighted by Measure	65%	65%	N/A	65%
		Net-To-Gross Adjustment (kWh/yr)	-29,882,330	-34,318,839	0	-64,201,170
		Net Adjusted Savings (kWh/yr)	55,495,756	63,734,988	0	119,230,743
		Planned Net Savings (kWh/yr)	53,544,278	53,229,984	0	106,774,262
		Annual % Toward Planned Net Savings	103.6%	119.7%	N/A	111.7%
		Avg. Gross Savings per Participant (kWh/yr)	50	53	N/A	52
		Avg. Net Savings per Participant (kWh/yr)	28	29	N/A	28
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	11,058.3	12,700.0	0.0	23,758.3
		Realization Rate Weighted by Measure	84%	84%	N/A	84%
		Realization Rate Adjustment (kW)	-1,769.3	-2,032.0	0.0	-3,801.3
		Realization Rate Adjusted Gross Demand Reduction (kW)	9,288.9	10,668.0	0.0	19,957.0
		Net-To-Gross Rate Weighted by Measure	65%	65%	N/A	65%
		Net-To-Gross Adjustment (kW)	-3,870.4	-4,445.0	0.0	-8,315.4
		Net Adjusted Demand Reduction (kW)	6,037.8	6,934.2	0.0	12,972.0
		Planned Net Savings (kW)	4,685.6	4,658.2	0.0	9,343.8
		Annual % Toward Planned Net Reduction	128.9%	148.9%	N/A	138.8%
		Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	N/A	0.01
		Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	N/A	0.00
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$0	\$0	\$0	\$0
		\$Admin. per kWh/year (Gross)	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$78	\$49	\$49	\$49
		\$EM&V per \$Total	0.7%	2.1%	2.6%	2.6%
		\$Rebate per Participant (Gross)	\$1	\$1	\$1	\$1

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J.52.2 2010-2012 Virginia Residential Lighting Program (Phase I)  
Measure Indicator Tables

VA - Residential Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	Not Available	Total Participants	2,016,479	2,206,030		4,222,509
Installed kWh/year	Not Available	Total Gross Energy Savings (kWh/yr)	101,640,578	116,730,746		218,371,325
	Not Available	Realization Rate	84%	84%	N/A	84%
	Not Available	Net-To-Gross Rate	65%	65%	N/A	65%
	Not Available	Net Adjusted Savings (kWh/yr)	55,495,756	63,734,988		119,230,743
	Not Available	Avg. Gross Savings per Participant (kWh/yr)	50	53	N/A	52
	Not Available	Avg. Net Savings per Participant (kWh/yr)	28	29	N/A	28
Installed Summer peak kW	Not Available	Total Gross Demand Reduction (kW)	11,058.3	12,700.0		23,758.3
	Not Available	Realization Rate	84%	84%	N/A	84%
	Not Available	Net-To-Gross Rate	65%	65%	N/A	65%
	Not Available	Net Adjusted Demand Reduction (kW)	6,037.8	6,934.2		12,972.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	N/A	0.01
	Not Available	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	N/A	0.00
Installed Winter peak kW	Not Available	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Not Available	Realization Rate	-	-	-	N/A
	Not Available	Net-To-Gross Rate	-	-	-	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Not Available	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-

J.52.3 2010-2012 Virginia Residential Lighting Program (Phase I)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
1	Residential Lighting	2009		PUE-2009-00081	11.08	9.71	6.78	0.73
1	Residential Lighting	2011		PUE-2011-00093	8.02	8.61	6.22	0.89
1	Residential Lighting	2012		PUE-2012-00100	N/A	N/A	N/A	N/A

1. Program closed end of 2012



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J.53 Virginia Residential Low Income Program (Phase I) 2010–2014

J.53.1 2010-2014 Virginia Residential Low Income Program (Phase I) Annual Indicator Tables

VA - Residential Low Income Program			2010	2011	2012	2013	2014	2010-2014
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate						
O&M (\$)		Direct Implementation						
O&M (\$)		Direct EM&V						
O&M (\$)		Indirect Other (Administrative)						
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$2,698,543	\$4,799,288	\$3,363,405	\$2,600,289	\$2,432,463	\$15,893,988
Costs (\$)		Planned	\$3,409,892	\$6,679,625	\$10,513,733	\$3,566,022	\$2,975,592	\$27,144,863
Costs (\$)		Variance	-\$711,349	-\$1,880,337	-\$7,150,328	-\$965,733	-\$543,128	-\$11,250,875
		Annual % of Planned	79%	72%	32%	73%	82%	59%
Participants <sup>1</sup>		Total (Gross)	1,431	3,912	2,380	1,883	1,880	11,486
		Planned	1,414	3,789	6,062	2,467	1,872	15,604
		Variance	17	123	-3,682	-584	8	-4,118
		Annual % of Planned (Gross)	101%	103%	39%	76%	100%	74%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	2,073,442	4,732,672	2,596,580	1,668,643	1,740,993	12,812,330
		Realization Rate Weighted by Measure	47%	47%	47%	75%	62%	53%
		Realization Rate Adjustment (kWh/yr)	-1,098,924	-2,508,316	-1,376,187	-417,161	-661,577	-6,062,166
		Realization Rate Adjusted Savings (kWh/yr)	974,518	2,224,356	1,220,392	1,251,482	1,079,416	6,750,164
		Net-To-Gross Rate Weighted by Measure	94%	94%	94%	94%	94%	94%
		Net-To-Gross Adjustment (kWh/yr)	-62,369	-142,359	-78,105	-80,095	-69,083	-432,010
		Net Adjusted Savings (kWh/yr)	912,148	2,081,997	1,142,287	1,171,388	1,010,333	6,318,154
		Planned Net Savings (kWh/yr)	554,704	554,704	554,704	554,704	1,560,401	3,779,217
		Annual % Toward Planned Net Savings	164.4%	375.3%	205.9%	211.2%	64.7%	167.2%
		Avg. Gross Savings per Participant (kWh/yr)	1,449	1,210	1,091	886	926	1,115
		Avg. Net Savings per Participant (kWh/yr)	637	532	480	622	537	550
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	472.8	959.1	508.0	345.6	335.8	2,621.3
		Realization Rate Weighted by Measure	47%	47%	47%	75%	62%	53%
		Realization Rate Adjustment (kW)	-250.6	-508.3	-269.3	-86.4	-127.6	-1,242.2
		Realization Rate Adjusted Gross Demand Reduction (kW)	222.2	450.8	238.8	259.2	208.2	1,379.1
		Net-To-Gross Rate Weighted by Measure	94%	94%	94%	94%	94%	94%
		Net-To-Gross Adjustment (kW)	-30.3	-61.4	-32.5	-22.1	-21.5	-167.8
		Net Adjusted Demand Reduction (kW)	208.0	421.9	223.5	242.6	194.9	1,290.9
		Planned Net Savings (kW)	102.0	274.0	436.0	396.0	246.0	1,454.0
		Annual % Toward Planned Net Reduction	203.9%	154.0%	51.3%	61.3%	79.2%	88.8%
		Avg. Gross Demand Reduction per Participant (kW)	0.3	0.2	0.2	0.2	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.09	0.1	0.1	0.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$577	\$227	\$207	\$195	\$174	\$174
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0
		\$Admin. per kW (Gross)	\$1,747	\$846	\$825	\$820	\$763	\$763
		\$EM&V per \$Total	1.0%	2.4%	2.7%	2.9%	3.0%	3.0%
		\$Rebate per Participant (Gross)	\$1,086	\$1,037	\$1,046	\$1,040	\$1,025	\$1,025

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J.53.2 2010-2014 Virginia Residential Low Income Program (Phase I) Measure Indicator Tables

VA - Residential Low Income Program			2010	2011	2012	2013	2014	2010-2014
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
Installed kWh/year	Attic Insulation	Total Participants	1,136	3,027	1,584	969	1,115	7,831
	Attic Insulation	Total Gross Energy Savings (kWh/yr)	1,457,402	2,817,373	1,546,821	827,227	810,323	7,459,146
	Attic Insulation	Realization Rate	47%	47%	47%	75%	62%	52%
	Attic Insulation	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Attic Insulation	Net Adjusted Savings (kWh/yr)	641,140	1,239,419	680,477	580,713	470,247	3,611,997
	Attic Insulation	Avg. Gross Savings per Participant (kWh/yr)	1,283	931	977	854	727	953
	Attic Insulation	Avg. Net Savings per Participant (kWh/yr)	564	409	430	599	422	461
Installed Summer peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	399.7	747.5	381.2	239.6	226.8	1,994.7
	Attic Insulation	Realization Rate	47%	47%	47%	75%	62%	52%
	Attic Insulation	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	175.8	328.8	167.7	168.2	131.6	972.1
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.4	0.2	0.2	0.2	0.2	0.3
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	0.2	0.1	0.1	0.2	0.1	0.1
	Installed Winter peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	-	-	-	-	-
Attic Insulation		Realization Rate	-	-	-	-	-	N/A
Attic Insulation		Net-To-Gross Rate	-	-	-	-	-	N/A
Attic Insulation		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
Attic Insulation		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
Attic Insulation		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Installed kWh/year		Central AC Filter	Total Participants	142	525	608	636	608
	Central AC Filter	Total Gross Energy Savings (kWh/yr)	9,448	30,305	21,913	17,663	20,023	99,352
	Central AC Filter	Realization Rate	47%	47%	47%	75%	62%	55%
	Central AC Filter	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Central AC Filter	Net Adjusted Savings (kWh/yr)	4,157	13,332	9,640	12,399	11,620	51,147
	Central AC Filter	Avg. Gross Savings per Participant (kWh/yr)	67	58	36	28	33	39
	Central AC Filter	Avg. Net Savings per Participant (kWh/yr)	29	25	16	19	19	20
Installed Summer peak kW	Central AC Filter	Total Gross Demand Reduction (kW)	6.3	19.3	14.0	11.1	12.6	63.2
	Central AC Filter	Realization Rate	47%	47%	47%	75%	62%	55%
	Central AC Filter	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Central AC Filter	Net Adjusted Demand Reduction (kW)	2.8	8.5	6.1	7.8	7.3	32.5
	Central AC Filter	Avg. Gross Demand Reduction per Participant (kW)	0.04	0.04	0.02	0.02	0.02	0.03
	Central AC Filter	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.01	0.01	0.01	0.01
	Installed Winter peak kW	Central AC Filter	Total Gross Demand Reduction (kW)	-	-	-	-	-
Central AC Filter		Realization Rate	-	-	-	-	-	N/A
Central AC Filter		Net-To-Gross Rate	-	-	-	-	-	N/A
Central AC Filter		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
Central AC Filter		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
Central AC Filter		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Installed kWh/year		CFL	Total Participants	150	357	169	254	136
	CFL	Total Gross Energy Savings (kWh/yr)	172,345	584,539	294,418	158,353	277,871	1,487,526
	CFL	Realization Rate	47%	47%	47%	75%	62%	53%
	CFL	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	CFL	Net Adjusted Savings (kWh/yr)	75,818	257,151	129,520	111,164	161,254	734,907
	CFL	Avg. Gross Savings per Participant (kWh/yr)	1,149	1,637	1,742	623	2,043	1,395
	CFL	Avg. Net Savings per Participant (kWh/yr)	505	720	766	438	1,186	689
Installed Summer peak kW	CFL	Total Gross Demand Reduction (kW)	18.8	63.6	32.0	20.9	32.2	167.4
	CFL	Realization Rate	47%	47%	47%	75%	62%	53%
	CFL	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	CFL	Net Adjusted Demand Reduction (kW)	8.2	28.0	14.1	14.6	18.7	83.6
	CFL	Avg. Gross Demand Reduction per Participant (kW)	0.1	0.2	0.2	0.08	0.2	0.2
	CFL	Avg. Net Demand Reduction per Participant (kW)	0.05	0.08	0.08	0.06	0.1	0.08
	Installed Winter peak kW	CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-

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VA - Residential Low Income Program			2010	2011	2012	2013	2014	2010-2014
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	CFL	Realization Rate	-	-	-	-	-	N/A
	CFL	Net-To-Gross Rate	-	-	-	-	-	N/A
	CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Sealing	Total Participants	0	0	2	0	1	3
Installed kWh/year	Duct Sealing	Total Gross Energy Savings (kWh/yr)	15,939	15,685	18,835	29,800	9,118	89,377
	Duct Sealing	Realization Rate	47%	47%	47%	75%	62%	58%
	Duct Sealing	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Duct Sealing	Net Adjusted Savings (kWh/yr)	7,012	6,900	8,286	20,920	5,292	48,409
	Duct Sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	9,417	N/A	9,118	29,792
	Duct Sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	4,143	N/A	5,292	16,136
Installed Summer peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	8.4	7.8	11.4	15.2	4.7	47.4
	Duct Sealing	Realization Rate	47%	47%	47%	75%	62%	57%
	Duct Sealing	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	3.7	3.4	5.0	10.7	2.7	25.5
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	5.7	N/A	4.7	15.8
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.5	N/A	2.7	8.5
Installed Winter peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Duct Sealing	Realization Rate	-	-	-	-	-	N/A
	Duct Sealing	Net-To-Gross Rate	-	-	-	-	-	N/A
	Duct Sealing	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Envelope Sealing	Total Participants	2	3	16	23	19	63
Installed kWh/year	Envelope Sealing	Total Gross Energy Savings (kWh/yr)	36,018	145,190	94,221	94,616	85,036	455,080
	Envelope Sealing	Realization Rate	47%	47%	47%	75%	62%	56%
	Envelope Sealing	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Envelope Sealing	Net Adjusted Savings (kWh/yr)	15,845	63,872	41,450	66,421	49,348	236,935
	Envelope Sealing	Avg. Gross Savings per Participant (kWh/yr)	18,009	48,397	5,889	4,114	4,476	7,223
	Envelope Sealing	Avg. Net Savings per Participant (kWh/yr)	7,922	21,291	2,591	2,888	2,597	3,761
Installed Summer peak kW	Envelope Sealing	Total Gross Demand Reduction (kW)	5.1	15.5	10.7	8.2	9.0	48.6
	Envelope Sealing	Realization Rate	47%	47%	47%	75%	62%	55%
	Envelope Sealing	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Envelope Sealing	Net Adjusted Demand Reduction (kW)	2.2	6.8	4.7	5.7	5.2	24.8
	Envelope Sealing	Avg. Gross Demand Reduction per Participant (kW)	2.5	5.2	0.7	0.4	0.5	0.8
	Envelope Sealing	Avg. Net Demand Reduction per Participant (kW)	1.1	2.3	0.3	0.2	0.3	0.4
Installed Winter peak kW	Envelope Sealing	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Envelope Sealing	Realization Rate	-	-	-	-	-	N/A
	Envelope Sealing	Net-To-Gross Rate	-	-	-	-	-	N/A
	Envelope Sealing	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Envelope Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Envelope Sealing	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Low Flow Showerhead	Total Participants	0	0	1	1	1	3
Installed kWh/year	Low Flow Showerhead	Total Gross Energy Savings (kWh/yr)	290,460	802,273	397,627	361,725	357,136	2,209,221
	Low Flow Showerhead	Realization Rate	47%	47%	47%	75%	62%	54%
	Low Flow Showerhead	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Low Flow Showerhead	Net Adjusted Savings (kWh/yr)	127,779	352,936	174,924	253,931	207,253	1,116,823
	Low Flow Showerhead	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	397,627	361,725	357,136	736,407
	Low Flow Showerhead	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	174,924	253,931	207,253	372,274
Installed Summer peak kW	Low Flow Showerhead	Total Gross Demand Reduction (kW)	23.9	66.1	32.8	29.8	29.4	182.1
	Low Flow Showerhead	Realization Rate	47%	47%	47%	75%	62%	54%



VA - Residential Low Income Program			2010	2011	2012	2013	2014	2010-2014
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Low Flow Showerhead	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Low Flow Showerhead	Net Adjusted Demand Reduction (kW)	10.5	29.1	14.4	20.9	17.1	92.1
	Low Flow Showerhead	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	32.8	29.8	29.4	60.7
	Low Flow Showerhead	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	14.4	20.9	17.1	30.7
Installed Winter peak kW	Low Flow Showerhead	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Low Flow Showerhead	Realization Rate	-	-	-	-	-	N/A
	Low Flow Showerhead	Net-To-Gross Rate	-	-	-	-	-	N/A
	Low Flow Showerhead	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Low Flow Showerhead	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Low Flow Showerhead	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Water Heater Turndown	Total Participants	1	0	0	0	0	1
Installed kWh/year	Water Heater Turndown	Total Gross Energy Savings (kWh/yr)	91,831	337,306	222,745	179,260	181,486	1,012,628
	Water Heater Turndown	Realization Rate	47%	47%	47%	75%	62%	55%
	Water Heater Turndown	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Water Heater Turndown	Net Adjusted Savings (kWh/yr)	40,398	148,388	97,990	125,841	105,320	517,936
	Water Heater Turndown	Avg. Gross Savings per Participant (kWh/yr)	91,831	N/A	N/A	N/A	N/A	1,012,628
	Water Heater Turndown	Avg. Net Savings per Participant (kWh/yr)	40,398	N/A	N/A	N/A	N/A	517,936
Installed Summer peak kW	Water Heater Turndown	Total Gross Demand Reduction (kW)	10.7	39.2	25.9	20.9	21.1	117.8
	Water Heater Turndown	Realization Rate	47%	47%	47%	75%	62%	55%
	Water Heater Turndown	Net-To-Gross Rate	94%	94%	94%	94%	94%	94%
	Water Heater Turndown	Net Adjusted Demand Reduction (kW)	4.7	17.3	11.4	14.6	12.3	60.2
	Water Heater Turndown	Avg. Gross Demand Reduction per Participant (kW)	10.7	N/A	N/A	N/A	N/A	117.8
	Water Heater Turndown	Avg. Net Demand Reduction per Participant (kW)	4.7	N/A	N/A	N/A	N/A	60.2
Installed Winter peak kW	Water Heater Turndown	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Turndown	Realization Rate	-	-	-	-	-	N/A
	Water Heater Turndown	Net-To-Gross Rate	-	-	-	-	-	N/A
	Water Heater Turndown	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Turndown	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Water Heater Turndown	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-

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J.53.3 2010-2014 Virginia Residential Low Income Program (Phase I) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
1	Residential Low Income	2009		PUE-2009-00081	N/A	0.30	1.96	0.23
1	Residential Low Income	2011		PUE-2011-00093	N/A	N/A	N/A	N/A
1	Residential Low Income	2012		PUE-2012-00100	++	0.32	5.34	0.23

1. Program closed end of 2014.



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**J.54 Virginia Residential Heat Pump Tune-Up Program (Phase II) 2012–2017**

**J.54.1 2012-2017 Virginia Residential Heat Pump Tune-up Program (Phase II) Annual Indicator Tables**

VA - Residential Heat Pump Tune-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)	Total		\$1,570,652	\$3,220,440	\$4,388,028	\$3,953,516	\$3,419,197	\$667,118	\$17,218,951
Costs (\$)	Planned		\$2,601,223	\$4,655,778	\$6,022,741	\$6,579,027	\$6,868,318	\$847,759	\$27,574,846
Costs (\$)	Variance		-\$1,030,571	-\$1,435,338	-\$1,634,713	-\$2,625,511	-\$3,449,121	-\$180,641	-\$10,355,894
	Annual % of Planned		60%	69%	73%	60%	50%	79%	62%
Participants <sup>1</sup>	Total (Gross)		1,212	15,633	24,687	24,114	19,008	2,472	87,126
	Planned		10,203	27,830	42,293	42,293	22,958	0	145,577
	Variance		-8,991	-12,197	-17,606	-18,179	-3,950	2,472	-58,451
	Annual % of Planned (Gross)		12%	56%	58%	57%	83%	N/A	60%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	365,489	4,605,167	6,269,989	5,067,124	4,035,338	500,799	20,843,906
		Realization Rate Weighted by Measure	99%	99%	99%	99%	99%	99%	99%
		Realization Rate Adjustment (kWh/yr)	-3,655	-46,052	-62,700	-50,671	-40,353	-5,008	-208,439
		Realization Rate Adjusted Savings (kWh/yr)	361,835	4,559,115	6,207,289	5,016,452	3,994,985	495,791	20,635,467
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	-36,183	-455,912	-620,729	-501,645	-399,498	-49,579	-2,063,547
		Net Adjusted Savings (kWh/yr)	325,651	4,103,204	5,586,560	4,514,807	3,595,486	446,212	18,571,921
		Planned Net Savings (kWh/yr)	7,024,000	19,102,880	32,227,266	32,227,266	2,595,482	0	93,176,895
		Annual % Toward Planned Net Savings	4.64%	21.5%	17.3%	14.0%	138.5%	N/A	19.9%
		Avg. Gross Savings per Participant (kWh/yr)	302	295	254	210	212	203	239
		Avg. Net Savings per Participant (kWh/yr)	269	262	226	187	189	181	213
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	250.0	3,160.0	4,881.2	3,752.1	3,002.6	390.6	15,436.5
		Realization Rate Weighted by Measure	99%	99%	99%	99%	99%	99%	99%
		Realization Rate Adjustment (kW)	-2.5	-31.6	-48.8	-37.5	-30.0	-3.9	-154.4
		Realization Rate Adjusted Gross Demand Reduction (kW)	247.5	3,128.4	4,832.4	3,714.6	2,972.6	386.7	15,282.2
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-25.0	-316.0	-488.1	-375.2	-300.3	-39.1	-1,543.7
		Net Adjusted Demand Reduction (kW)	222.7	2,815.6	4,344.2	3,339.4	2,672.3	347.8	13,738.5
		Planned Net Savings (kW)	2,053.0	5,585.0	9,727.6	9,727.6	868.8	0.0	27,961.9
		Annual % Toward Planned Net Reduction	10.8%	50.4%	44.7%	34.4%	307.9%	N/A	49.2%
		Avg. Gross Demand Reduction per Participant (kW)	0.2	0.2	0.2	0.2	0.2	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$148	\$31	\$18	\$13	\$12	\$12	\$12
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0.07	\$0.05	\$0.05	\$0.05	\$0.05
		\$Admin. per kW (Gross)	\$718	\$152	\$90	\$72	\$65	\$65	\$65
		\$EM&V per \$Total	1.2%	2.5%	2.3%	2.1%	2.4%	2.7%	2.7%
		\$Rebate per Participant (Gross)	\$90	\$90	\$90	\$90	\$90	\$90	\$90

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J.54.2 2012-2017 Virginia Residential Heat Pump Tune-up Program (Phase II) Measure Indicator Tables

VA - Residential Heat Pump Tune-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Not Available	Total Participants	1,212	15,633	24,687	24,114	19,008	2,472	87,126
Installed kWh/year	Not Available	Total Gross Energy Savings (kWh/yr)	365,489	4,605,167	6,269,989	5,067,124	4,035,338	500,799	20,843,906
	Not Available	Realization Rate	99%	99%	99%	99%	99%	99%	99%
	Not Available	Net-To-Gross Rate	90%	90%	90%	90%	90%	90%	90%
	Not Available	Net Adjusted Savings (kWh/yr)	325,651	4,103,204	5,586,560	4,514,807	3,595,486	446,212	18,571,921
	Not Available	Avg. Gross Savings per Participant (kWh/yr)	302	295	254	210	212	203	239
	Not Available	Avg. Net Savings per Participant (kWh/yr)	269	262	226	187	189	181	213
Installed Summer peak kW	Not Available	Total Gross Demand Reduction (kW)	250.0	3,160.0	4,881.2	3,752.1	3,002.6	390.6	15,436.5
	Not Available	Realization Rate	99%	99%	99%	99%	99%	99%	99%
	Not Available	Net-To-Gross Rate	90%	90%	90%	90%	90%	90%	90%
	Not Available	Net Adjusted Demand Reduction (kW)	222.7	2,815.6	4,349.2	3,343.1	2,675.3	348.0	13,754.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Not Available	Avg. Net Demand Reduction per Participant (kW)	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Installed Winter peak kW	Not Available	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Not Available	Realization Rate	-	-	-	-	-	-	N/A
	Not Available	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Not Available	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-

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J.54.3 2012-2017 Virginia Residential Heat Pump Tune-up Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Residential Heat Pump Tune-up	2011		PUE-2011-00093	3.07	2.51	2.21	0.79
2	Residential Heat Pump Tune-up	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Residential Heat Pump Tune-up	2013		PUE-2013-00072	3.16	2.41	2.06	0.71
2	Residential Heat Pump Tune-up	2014		PUE-2014-00071	1.69	0.69	0.58	0.34
2	Residential Heat Pump Tune-up	2015		PUE-2015-00089	1.72	0.67	0.57	0.33
2	Residential Heat Pump Tune-up	2016		PUE-2016-00111	N/A	N/A	N/A	N/A

1. Program closed end of 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated



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**J.55 Virginia Residential Heat Pump Upgrade Program (Phase II) 2012–2017**

**J.55.1 2012-2017 Virginia Residential Heat Pump Upgrade Program (Phase II) Annual Indicator Tables**

VA - Residential Heat Pump Upgrade Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$1,146,122	\$2,046,264	\$1,894,946	\$2,465,610	\$2,591,140	\$748,544	\$10,892,625
Costs (\$)		Planned	\$2,219,762	\$4,060,927	\$5,335,095	\$5,744,102	\$6,313,961	\$526,099	\$24,199,946
Costs (\$)		Variance	-\$1,073,640	-\$2,014,663	-\$3,440,149	-\$3,278,493	-\$3,722,821	\$222,445	-\$13,307,321
		Annual % of Planned	52%	50%	36%	43%	41%	142%	45%
Participants <sup>1</sup>		Total (Gross)	86	3,295	3,648	4,210	5,396	1,149	17,784
		Planned	4,386	11,992	18,221	18,221	3,747	0	56,577
		Variance	-4,310	-8,697	-14,573	-14,011	1,649	1,149	-38,793
		Annual % of Planned (Gross)	2%	27%	20%	23%	144%	N/A	31%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	199,447	6,668,737	5,661,083	2,405,953	3,075,117	553,935	18,564,272
		Realization Rate Weighted by Measure	107%	107%	107%	78%	78%	78%	97%
		Realization Rate Adjustment (kWh/yr)	13,363	446,805	379,293	-529,310	-676,526	-121,866	-488,240
		Realization Rate Adjusted Savings (kWh/yr)	212,810	7,115,542	6,040,376	1,876,643	2,398,591	432,069	18,076,032
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%	45%	45%	45%	72%
		Net-To-Gross Adjustment (kWh/yr)	-31,922	-1,067,331	-906,056	-1,032,154	-1,319,225	-237,639	-4,594,326
		Net Adjusted Savings (kWh/yr)	180,889	6,048,211	5,134,319	844,490	1,079,366	194,431	13,481,706
		Planned Net Savings (kWh/yr)	3,207,000	8,724,528	15,761,165	15,761,165	742,118	0	44,195,976
		Annual % Toward Planned Net Savings	5.64%	69.3%	32.6%	5.36%	145.4%	N/A	30.5%
		Avg. Gross Savings per Participant (kWh/yr)	2,319	2,024	1,552	571	570	482	1,044
		Avg. Net Savings per Participant (kWh/yr)	2,103	1,836	1,407	201	200	169	758
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	59.3	2,393.9	2,167.4	472.3	625.8	129.9	5,848.5
		Realization Rate Weighted by Measure	83%	83%	83%	89%	89%	89%	84%
		Realization Rate Adjustment (kW)	-10.0	-404.6	-366.3	-51.9	-68.8	-14.3	-915.9
		Realization Rate Adjusted Gross Demand Reduction (kW)	49.3	1,989.3	1,801.1	420.3	556.9	115.6	4,932.5
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%	45%	45%	45%	77%
		Net-To-Gross Adjustment (kW)	-8.9	-359.1	-325.1	-259.7	-344.2	-71.4	-1,368.4
		Net Adjusted Demand Reduction (kW)	41.9	1,690.9	1,530.9	189.1	250.6	52.0	3,755.5
		Planned Net Savings (kW)	1,068.0	2,904.0	5,284.1	5,284.1	267.0	0.0	14,807.3
		Annual % Toward Planned Net Reduction	3.92%	58.2%	29.0%	3.58%	93.9%	N/A	25.4%
		Avg. Gross Demand Reduction per Participant (kW)	0.7	0.7	0.6	0.1	0.1	0.1	0.3
		Avg. Net Demand Reduction per Participant (kW)	0.5	0.5	0.4	0.04	0.05	0.05	0.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$1,466	\$97	\$61	\$45	\$35	\$35	\$35
		\$Admin. per kWh/year (Gross)	\$1	\$0.05	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03
		\$Admin. per kW (Gross)	\$2,125	\$134	\$93	\$99	\$102	\$105	\$105
		\$EM&V per \$Total	1.6%	10.3%	11.5%	13.8%	13.1%	13.4%	13.4%
		\$Rebate per Participant (Gross)	\$219	\$218	\$217	\$218	\$218	\$218	\$218

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J.55.2 2012-2017 Virginia Residential Heat Pump Upgrade Program (Phase II) Measure Indicator Tables

VA - Residential Heat Pump Upgrade Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Air Source Heat Pump	Total Participants	84	3,250	3,608	4,173	5,334	1,130	17,579
Installed kWh/year	Air Source Heat Pump	Total Gross Energy Savings (kWh/yr)	194,555	6,551,463	5,549,456	2,315,118	2,963,993	512,211	18,086,797
	Air Source Heat Pump	Realization Rate	107%	107%	107%	78%	78%	78%	98%
	Air Source Heat Pump	Net-To-Gross Rate	85%	85%	85%	45%	45%	45%	72%
	Air Source Heat Pump	Net Adjusted Savings (kWh/yr)	176,452	5,941,850	5,033,079	812,607	1,040,362	179,786	13,184,135
	Air Source Heat Pump	Avg. Gross Savings per Participant (kWh/yr)	2,316	2,016	1,538	555	556	453	1,029
	Air Source Heat Pump	Avg. Net Savings per Participant (kWh/yr)	2,101	1,828	1,395	195	195	159	750
Installed Summer peak kW	Air Source Heat Pump	Total Gross Demand Reduction (kW)	57.7	2,362.0	2,130.2	448.0	584.3	115.5	5,697.7
	Air Source Heat Pump	Realization Rate	83%	83%	83%	89%	89%	89%	84%
	Air Source Heat Pump	Net-To-Gross Rate	85%	85%	85%	45%	45%	45%	77%
	Air Source Heat Pump	Net Adjusted Demand Reduction (kW)	40.8	1,668.4	1,504.7	179.4	234.0	46.3	3,673.5
	Air Source Heat Pump	Avg. Gross Demand Reduction per Participant (kW)	0.7	0.7	0.6	0.1	0.1	0.1	0.3
	Air Source Heat Pump	Avg. Net Demand Reduction per Participant (kW)	0.5	0.5	0.4	0.04	0.04	0.04	0.2
Installed Winter peak kW	Air Source Heat Pump	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Air Source Heat Pump	Realization Rate	-	-	-	-	-	-	N/A
	Air Source Heat Pump	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Air Source Heat Pump	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Air Source Heat Pump	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Air Source Heat Pump	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Geothermal Heat Pump Closed Loop Water To Air	Total Participants	2	32	32	31	50	15	162
	Geothermal Heat Pump Closed Loop Water To Air	Total Gross Energy Savings (kWh/yr)	4,892	103,416	83,762	78,355	83,859	33,798	388,082
	Geothermal Heat Pump Closed Loop Water To Air	Realization Rate	107%	107%	107%	78%	78%	78%	92%
	Geothermal Heat Pump Closed Loop Water To Air	Net-To-Gross Rate	85%	85%	85%	45%	45%	45%	65%
	Geothermal Heat Pump Closed Loop Water To Air	Net Adjusted Savings (kWh/yr)	4,437	93,793	75,968	27,503	29,435	11,863	242,998
	Geothermal Heat Pump Closed Loop Water To Air	Avg. Gross Savings per Participant (kWh/yr)	2,446	3,232	2,618	2,528	1,677	2,253	2,396
Installed Summer peak kW	Geothermal Heat Pump Closed Loop Water To Air	Total Gross Demand Reduction (kW)	1.6	27.7	27.0	19.8	31.7	11.6	119.4
	Geothermal Heat Pump Closed Loop Water To Air	Realization Rate	83%	83%	83%	89%	89%	89%	86%
	Geothermal Heat Pump Closed Loop Water To Air	Net-To-Gross Rate	85%	85%	85%	45%	45%	45%	64%
	Geothermal Heat Pump Closed Loop Water To Air	Net Adjusted Demand Reduction (kW)	1.1	19.5	19.1	7.9	12.7	4.6	65.1
	Geothermal Heat Pump Closed Loop Water To Air	Avg. Gross Demand Reduction per Participant (kW)	0.8	0.9	0.8	0.6	0.6	0.8	0.7
	Geothermal Heat Pump Closed Loop Water To Air	Avg. Net Demand Reduction per Participant (kW)	0.6	0.6	0.6	0.3	0.3	0.3	0.4
Installed Winter peak kW	Geothermal Heat Pump Closed Loop Water To Air	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Geothermal Heat Pump Closed Loop Water To Air	Realization Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Closed Loop Water To Air	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Closed Loop Water To Air	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Geothermal Heat Pump Closed Loop Water To Air	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Geothermal Heat Pump Closed Loop Water To Air	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Geothermal Heat Pump Closed Loop Water To Water	Total Participants	0	7	3	2	5	3	20
	Geothermal Heat Pump Closed Loop Water To Water	Total Gross Energy Savings (kWh/yr)	0	5,704	15,031	2,930	11,322	5,973	40,960
	Geothermal Heat Pump Closed Loop Water To Water	Realization Rate	N/A	107%	107%	78%	78%	78%	93%
	Geothermal Heat Pump Closed Loop Water To Water	Net-To-Gross Rate	N/A	85%	85%	45%	45%	45%	65%
	Geothermal Heat Pump Closed Loop Water To Water	Net Adjusted Savings (kWh/yr)	0	5,173	13,633	1,028	3,974	2,096	25,905
	Geothermal Heat Pump Closed Loop Water To Water	Avg. Gross Savings per Participant (kWh/yr)	N/A	815	5,010	1,465	2,264	1,991	2,048
Installed Summer peak kW	Geothermal Heat Pump Closed Loop Water To Water	Total Gross Demand Reduction (kW)	0.0	1.9	4.8	1.0	3.0	2.1	12.8
	Geothermal Heat Pump Closed Loop Water To Water	Realization Rate	N/A	83%	83%	89%	89%	89%	86%
	Geothermal Heat Pump Closed Loop Water To Water	Net-To-Gross Rate	N/A	85%	85%	45%	45%	45%	66%
	Geothermal Heat Pump Closed Loop Water To Water	Net Adjusted Demand Reduction (kW)	0.0	1.3	3.4	0.4	1.2	0.8	7.2
	Geothermal Heat Pump Closed Loop Water To Water	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	1.6	0.5	0.6	0.7	0.6
	Geothermal Heat Pump Closed Loop Water To Water	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	1.1	0.2	0.2	0.3	0.4
Installed Winter peak kW	Geothermal Heat Pump Closed Loop Water To Water	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0

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VA - Residential Heat Pump Upgrade Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Geothermal Heat Pump Closed Loop Water To Water	Realization Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Closed Loop Water To Water	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Closed Loop Water To Water	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Geothermal Heat Pump Closed Loop Water To Water	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Geothermal Heat Pump Closed Loop Water To Water	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Geothermal Heat Pump Direct Geoexchange (DGX)	Total Participants	0	6	5	4	7	1	23
Installed kWh/year	Geothermal Heat Pump Direct Geoexchange (DGX)	Total Gross Energy Savings (kWh/yr)	0	8,153	12,834	9,549	15,943	1,954	48,433
	Geothermal Heat Pump Direct Geoexchange (DGX)	Realization Rate	N/A	107%	107%	78%	78%	78%	90%
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net-To-Gross Rate	N/A	85%	85%	45%	45%	45%	62%
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net Adjusted Savings (kWh/yr)	0	7,395	11,640	3,352	5,596	686	28,668
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,359	2,567	2,387	2,278	1,954	2,106
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Net Savings per Participant (kWh/yr)	N/A	1,232	2,328	838	799	686	1,246
Installed Summer peak kW	Geothermal Heat Pump Direct Geoexchange (DGX)	Total Gross Demand Reduction (kW)	0.0	2.3	5.3	3.4	6.8	0.6	18.4
	Geothermal Heat Pump Direct Geoexchange (DGX)	Realization Rate	N/A	83%	83%	89%	89%	89%	87%
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net-To-Gross Rate	N/A	85%	85%	45%	45%	45%	62%
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net Adjusted Demand Reduction (kW)	0.0	1.7	3.8	1.4	2.7	0.2	9.7
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.4	1.1	0.8	1.0	0.6	0.8
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.8	0.3	0.4	0.2	0.4
Installed Winter peak kW	Geothermal Heat Pump Direct Geoexchange (DGX)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Geothermal Heat Pump Direct Geoexchange (DGX)	Realization Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Geothermal Heat Pump Direct Geoexchange (DGX)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Geothermal Heat Pump Direct Geoexchange (DGX)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-

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J.55.3 2012-2017 Virginia Residential Heat Pump Upgrade Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Residential Heat Pump Upgrade	2011		PUE-2011-00093	2.53	2.92	2.19	0.87
2	Residential Heat Pump Upgrade	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Residential Heat Pump Upgrade	2013		PUE-2013-00072	2.71	2.50	1.87	0.73
2	Residential Heat Pump Upgrade	2014		PUE-2014-00071	5.82	4.87	3.58	0.65
2	Residential Heat Pump Upgrade	2015		PUE-2015-00089	5.72	3.65	2.78	0.52
2	Residential Heat Pump Upgrade	2016		PUE-2016-00111	2.64	1.38	1.02	0.47

1. Program closed end of 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated.
3. Realization Rate Adjustment occurred in 2015. Prior to 2012-2014 kWh realization rate was 106.7%, kW realization rate was 83.1%, and Net to Gross rate was 85%. From the start of 2015 forward kWh realization rate was 78%, kW realization rate was 89%, and Net to Gross rate was 45%.



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J.56 Virginia Residential Duct Sealing Program (Phase II) 2012–2017

J.56.1 2012-2017 Virginia Residential Duct Sealing Program (Phase II) Annual Indicator Tables

VA - Residential Duct Sealing Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$898,451	\$868,778	\$995,573	\$932,972	\$697,755	\$315,834	\$4,709,363
Costs (\$)		Planned	\$1,078,863	\$1,517,606	\$1,760,434	\$1,656,434	\$1,765,492	\$287,296	\$8,066,125
Costs (\$)		Variance	-\$180,412	-\$648,828	-\$764,861	-\$723,462	-\$1,067,737	\$28,538	-\$3,356,761
		Annual % of Planned	83%	57%	57%	56%	40%	110%	58%
Participants <sup>1</sup>		Total (Gross)	8	108	401	1,860	658	264	3,299
		Planned	1,267	3,456	5,248	5,249	1,499	0	16,720
		Variance	-1,259	-3,348	-4,848	-3,389	-841	264	-13,421
		Annual % of Planned (Gross)	1%	3%	8%	35%	44%	N/A	20%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	10,093	120,772	264,570	1,024,299	369,325	145,638	1,934,698
		Realization Rate Weighted by Measure	49%	49%	49%	49%	49%	49%	49%
		Realization Rate Adjustment (kWh/yr)	-5,147	-61,594	-134,931	-522,393	-188,356	-74,276	-986,696
		Realization Rate Adjusted Savings (kWh/yr)	4,945	59,178	129,639	501,907	180,969	71,363	948,002
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	-989	-11,836	-25,928	-100,381	-36,194	-14,273	-189,600
		Net Adjusted Savings (kWh/yr)	3,956	47,343	103,711	401,525	144,776	57,090	758,401
		Planned Net Savings (kWh/yr)	533,000	1,449,268	2,750,476	2,750,476	178,861	0	7,662,081
		Annual % Toward Planned Net Savings	0.74%	3.27%	3.77%	14.6%	80.9%	N/A	9.90%
		Avg. Gross Savings per Participant (kWh/yr)	1,262	1,118	660	551	561	552	586
		Avg. Net Savings per Participant (kWh/yr)	495	438	259	216	220	216	230
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	11.6	137.9	216.6	839.4	302.4	119.3	1,627.2
		Realization Rate Weighted by Measure	49%	49%	49%	49%	49%	49%	49%
		Realization Rate Adjustment (kW)	-5.9	-70.3	-110.5	-428.1	-154.2	-60.9	-829.9
		Realization Rate Adjusted Gross Demand Reduction (kW)	5.7	67.6	106.1	411.3	148.2	58.5	797.3
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%
		Net-To-Gross Adjustment (kW)	-2.3	-27.6	-43.3	-167.9	-60.5	-23.9	-325.4
		Net Adjusted Demand Reduction (kW)	4.5	54.0	84.9	328.0	118.5	46.8	637.9
		Planned Net Savings (kW)	330.0	898.0	1,732.2	1,732.2	59.9	0.0	4,752.2
		Annual % Toward Planned Net Reduction	1.38%	6.02%	4.90%	19.0%	197.9%	N/A	13.4%
		Avg. Gross Demand Reduction per Participant (kW)	1.4	1.3	0.5	0.5	0.5	0.5	0.5
		Avg. Net Demand Reduction per Participant (kW)	0.6	0.5	0.2	0.2	0.2	0.2	0.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$13,452	\$1,691	\$471	\$115	\$97	\$93	\$93
		\$Admin. per kWh/year (Gross)	\$11	\$1	\$1	\$0	\$0	\$0	\$0
		\$Admin. per kW (Gross)	\$9,287	\$1,312	\$665	\$226	\$195	\$188	\$188
		\$EM&V per \$Total	2.1%	7.7%	7.7%	11.6%	11.3%	12.0%	12.0%
		\$Rebate per Participant (Gross)	\$125	\$125	\$131	\$125	\$125	\$125	\$125

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J.56.2 2012-2017 Virginia Residential Duct Sealing Program (Phase II) Measure Indicator Tables

VA - Residential Duct Sealing Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Duct Sealing - Aerosol	Total Participants	0	0	16	43	34	13	106
Installed kWh/year	Duct Sealing - Aerosol	Total Gross Energy Savings (kWh/yr)	0	0	15,831	40,414	30,304	8,314	94,863
	Duct Sealing - Aerosol	Realization Rate	N/A	N/A	49%	49%	49%	49%	49%
	Duct Sealing - Aerosol	Net-To-Gross Rate	N/A	N/A	80%	80%	80%	80%	80%
	Duct Sealing - Aerosol	Net Adjusted Savings (kWh/yr)	0	0	6,206	15,842	11,879	3,259	37,186
	Duct Sealing - Aerosol	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	989	940	891	640	895
	Duct Sealing - Aerosol	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	388	368	349	251	351
Installed Summer peak kW	Duct Sealing - Aerosol	Total Gross Demand Reduction (kW)	0.0	0.0	13.0	33.1	24.8	6.8	77.7
	Duct Sealing - Aerosol	Realization Rate	N/A	N/A	49%	49%	49%	49%	49%
	Duct Sealing - Aerosol	Net-To-Gross Rate	N/A	N/A	80%	80%	80%	80%	80%
	Duct Sealing - Aerosol	Net Adjusted Demand Reduction (kW)	0.0	0.0	5.1	13.0	9.7	2.7	30.5
	Duct Sealing - Aerosol	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.8	0.8	0.7	0.5	0.7
	Duct Sealing - Aerosol	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.3	0.3	0.3	0.2	0.3
Installed Winter peak kW	Duct Sealing - Aerosol	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Aerosol	Realization Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Aerosol	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Aerosol	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Aerosol	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Aerosol	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Modified Blower Door Subtraction	Total Participants	0	9	0	1	1	0	11
Installed kWh/year	Duct Sealing - Modified Blower Door Subtraction	Total Gross Energy Savings (kWh/yr)	0	27,214	0	-3,004	3,000	0	27,210
	Duct Sealing - Modified Blower Door Subtraction	Realization Rate	N/A	49%	N/A	49%	49%	N/A	49%
	Duct Sealing - Modified Blower Door Subtraction	Net-To-Gross Rate	N/A	80%	N/A	80%	80%	N/A	80%
	Duct Sealing - Modified Blower Door Subtraction	Net Adjusted Savings (kWh/yr)	0	10,668	0	-1,177	1,176	0	10,666
	Duct Sealing - Modified Blower Door Subtraction	Avg. Gross Savings per Participant (kWh/yr)	N/A	3,024	N/A	-3,004	3,000	N/A	2,474
	Duct Sealing - Modified Blower Door Subtraction	Avg. Net Savings per Participant (kWh/yr)	N/A	1,185	N/A	-1,177	1,176	N/A	970
Installed Summer peak kW	Duct Sealing - Modified Blower Door Subtraction	Total Gross Demand Reduction (kW)	0.0	31.2	0.0	-2.5	2.5	0.0	31.2
	Duct Sealing - Modified Blower Door Subtraction	Realization Rate	N/A	49%	N/A	49%	49%	N/A	49%
	Duct Sealing - Modified Blower Door Subtraction	Net-To-Gross Rate	N/A	80%	N/A	80%	80%	N/A	80%
	Duct Sealing - Modified Blower Door Subtraction	Net Adjusted Demand Reduction (kW)	0.0	12.2	0.0	-1.0	1.0	0.0	12.2
	Duct Sealing - Modified Blower Door Subtraction	Avg. Gross Demand Reduction per Participant (kW)	N/A	3.5	N/A	-2.46	2.5	N/A	2.8
	Duct Sealing - Modified Blower Door Subtraction	Avg. Net Demand Reduction per Participant (kW)	N/A	1.4	N/A	-0.98	1.0	N/A	1.1
Installed Winter peak kW	Duct Sealing - Modified Blower Door Subtraction	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Modified Blower Door Subtraction	Realization Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Modified Blower Door Subtraction	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Modified Blower Door Subtraction	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Modified Blower Door Subtraction	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Modified Blower Door Subtraction	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Prescriptive	Total Participants	0	0	291	1,767	602	249	2,909
Installed kWh/year	Duct Sealing - Prescriptive	Total Gross Energy Savings (kWh/yr)	0	0	169,994	945,167	319,759	136,922	1,571,841
	Duct Sealing - Prescriptive	Realization Rate	N/A	N/A	49%	49%	49%	49%	49%
	Duct Sealing - Prescriptive	Net-To-Gross Rate	N/A	N/A	80%	80%	80%	80%	80%
	Duct Sealing - Prescriptive	Net Adjusted Savings (kWh/yr)	0	0	66,638	370,505	125,345	53,673	616,162
	Duct Sealing - Prescriptive	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	584	535	531	550	540
	Duct Sealing - Prescriptive	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	229	210	208	216	212
Installed Summer peak kW	Duct Sealing - Prescriptive	Total Gross Demand Reduction (kW)	0.0	0.0	139.3	774.5	261.8	112.2	1,287.8
	Duct Sealing - Prescriptive	Realization Rate	N/A	N/A	49%	49%	49%	49%	49%
	Duct Sealing - Prescriptive	Net-To-Gross Rate	N/A	N/A	80%	80%	80%	80%	80%
	Duct Sealing - Prescriptive	Net Adjusted Demand Reduction (kW)	0.0	0.0	54.6	303.6	102.6	44.0	504.8
	Duct Sealing - Prescriptive	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.5	0.4	0.4	0.5	0.4
	Duct Sealing - Prescriptive	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2	0.2	0.2	0.2
Installed Winter peak kW	Duct Sealing - Prescriptive	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0

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VA - Residential Duct Sealing Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Duct Sealing - Prescriptive	Realization Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Prescriptive	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Prescriptive	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Prescriptive	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Prescriptive	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Total Leakage Duct Blaster	Total Participants	8	99	94	49	21	2	273
Installed kWh/year	Duct Sealing - Total Leakage Duct Blaster	Total Gross Energy Savings (kWh/yr)	10,093	93,558	76,744	41,722	16,263	402	240,783
	Duct Sealing - Total Leakage Duct Blaster	Realization Rate	49%	49%	49%	49%	49%	49%	49%
	Duct Sealing - Total Leakage Duct Blaster	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	80%
	Duct Sealing - Total Leakage Duct Blaster	Net Adjusted Savings (kWh/yr)	3,956	36,675	30,868	16,355	6,375	158	94,367
	Duct Sealing - Total Leakage Duct Blaster	Avg. Gross Savings per Participant (kWh/yr)	1,262	945	838	851	774	201	882
	Duct Sealing - Total Leakage Duct Blaster	Avg. Net Savings per Participant (kWh/yr)	495	370	328	334	304	79	346
Installed Summer peak kW	Duct Sealing - Total Leakage Duct Blaster	Total Gross Demand Reduction (kW)	11.6	106.6	64.3	34.2	13.3	0.3	230.4
	Duct Sealing - Total Leakage Duct Blaster	Realization Rate	49%	49%	49%	49%	49%	49%	49%
	Duct Sealing - Total Leakage Duct Blaster	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	80%
	Duct Sealing - Total Leakage Duct Blaster	Net Adjusted Demand Reduction (kW)	4.5	41.8	25.2	13.4	5.2	0.1	90.3
	Duct Sealing - Total Leakage Duct Blaster	Avg. Gross Demand Reduction per Participant (kW)	1.4	1.1	0.7	0.7	0.6	0.2	0.8
	Duct Sealing - Total Leakage Duct Blaster	Avg. Net Demand Reduction per Participant (kW)	0.6	0.4	0.3	0.3	0.2	0.06	0.3
Installed Winter peak kW	Duct Sealing - Total Leakage Duct Blaster	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Total Leakage Duct Blaster	Realization Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Total Leakage Duct Blaster	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Duct Sealing - Total Leakage Duct Blaster	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Duct Sealing - Total Leakage Duct Blaster	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Duct Sealing - Total Leakage Duct Blaster	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-

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JUN 14 2024





J.56.3 2012-2017 Virginia Residential Duct Sealing Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Residential Duct Sealing	2011		PUE-2011-00093	1.88	2.34	1.66	0.99
2	Residential Duct Sealing	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Residential Duct Sealing	2013		PUE-2013-00072	2.03	1.96	1.41	0.82
2	Residential Duct Sealing	2014		PUE-2014-00071	2.10	1.78	1.25	0.69
2	Residential Duct Sealing	2015		PUE-2015-00089	2.21	2.04	1.43	0.74
2	Residential Duct Sealing	2016		PUE-2016-00111	N/A	N/A	N/A	N/A

1. Program closed end of 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated



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J.57 Virginia Residential Home Energy Check-Up Program (Phase II) 2012–2017

J.57.1 2012-2017 Virginia Residential Home Energy Check-up Program (Phase II) Annual Indicator Tables

VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$388,827	\$1,139,455	\$6,664,393	\$4,530,926	\$5,009,540	\$710,794	\$18,443,934
Costs (\$)		Planned	\$579,767	\$1,147,655	\$1,316,844	\$1,390,384	\$1,461,234	\$948,379	\$6,844,262
Costs (\$)		Variance	-\$190,940	-\$8,200	\$5,347,549	\$3,140,542	\$3,548,306	-\$237,585	\$11,599,672
		Annual % of Planned	67%	99%	506%	326%	343%	75%	269%
Participants <sup>1</sup>		Total (Gross)	31	1,569	19,703	13,860	15,252	1,500	51,915
		Planned	602	1,605	2,427	2,427	2,427	0	9,488
		Variance	-571	-36	17,276	11,433	12,825	1,500	42,427
		Annual % of Planned (Gross)	5%	98%	812%	571%	628%	N/A	547%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	24,482	1,156,438	10,573,472	6,833,270	6,779,245	827,576	26,194,484
		Realization Rate Weighted by Measure	154%	154%	154%	154%	154%	154%	154%
		Realization Rate Adjustment (kWh/yr)	13,220	624,477	5,709,675	3,689,966	3,660,792	446,891	14,145,021
		Realization Rate Adjusted Savings (kWh/yr)	37,703	1,780,915	16,283,146	10,523,235	10,440,037	1,274,468	40,339,505
		Net-To-Gross Rate Weighted by Measure	82%	82%	82%	82%	82%	82%	82%
		Net-To-Gross Adjustment (kWh/yr)	-6,787	-320,565	-2,930,966	-1,894,182	-1,879,207	-229,404	-7,261,111
		Net Adjusted Savings (kWh/yr)	30,916	1,460,350	13,352,180	8,629,053	8,560,831	1,045,064	33,078,394
		Planned Net Savings (kWh/yr)	492,000	1,306,356	2,468,259	2,468,259	4,593,678	0	11,328,552
		Annual % Toward Planned Net Savings	6.28%	111.8%	541.0%	349.6%	186.4%	N/A	292.0%
		Avg. Gross Savings per Participant (kWh/yr)	790	737	537	493	444	552	505
		Avg. Net Savings per Participant (kWh/yr)	997	931	678	623	561	697	637
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	3.1	140.0	1,106.0	694.7	691.3	76.4	2,711.4
		Realization Rate Weighted by Measure	154%	154%	154%	154%	154%	154%	154%
		Realization Rate Adjustment (kW)	1.7	75.6	597.2	375.1	373.3	41.2	1,464.2
		Realization Rate Adjusted Gross Demand Reduction (kW)	4.8	215.6	1,703.3	1,069.8	1,064.7	117.6	4,175.6
		Net-To-Gross Rate Weighted by Measure	82%	82%	82%	82%	82%	82%	82%
		Net-To-Gross Adjustment (kW)	-0.6	-25.2	-199.1	-125.0	-124.4	-13.7	-488.1
		Net Adjusted Demand Reduction (kW)	3.9	176.8	1,396.7	877.2	873.0	96.4	3,424.0
		Planned Net Savings (kW)	85.0	225.0	436.9	436.9	1,001.9	0.0	2,185.6
		Annual % Toward Planned Net Reduction	4.59%	78.6%	319.7%	200.8%	87.1%	N/A	156.7%
		Avg. Gross Demand Reduction per Participant (kW)	0.10	0.09	0.06	0.05	0.05	0.05	0.05
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.07	0.06	0.06	0.06	0.07
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$1,481	\$96	\$21	\$17	\$15	\$15	\$15
		\$Admin. per kWh/year (Gross)	\$2	\$0	\$0.04	\$0.03	\$0.03	\$0.03	\$0.03
		\$Admin. per kW (Gross)	\$14,840	\$1,076	\$365	\$308	\$285	\$287	\$287
		\$EM&V per \$Total	4.9%	8.5%	2.3%	2.4%	2.6%	3.0%	3.0%
		\$Rebate per Participant (Gross)	\$220	\$226	\$226	\$218	\$215	\$215	\$215

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J.57.2 2012-2017 Virginia Residential Home Energy Check-up Program (Phase II) Measure Indicator Tables

VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	15 Watt CFL	Total Participants	14	516	5,149	4,152	2,408	356	12,595
Installed kWh/year	15 Watt CFL	Total Gross Energy Savings (kWh/yr)	3,765	161,703	973,974	586,491	356,909	46,133	2,128,976
	15 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	15 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	15 Watt CFL	Net Adjusted Savings (kWh/yr)	4,755	204,199	1,229,934	740,621	450,705	58,257	2,688,470
	15 Watt CFL	Avg. Gross Savings per Participant (kWh/yr)	269	313	199	141	148	130	169
	15 Watt CFL	Avg. Net Savings per Participant (kWh/yr)	340	396	239	178	187	164	213
		15 Watt CFL							
Installed Summer peak kW	15 Watt CFL	Total Gross Demand Reduction (kW)	0.4	20.3	107.8	65.8	40.6	5.3	240.2
	15 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	15 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	15 Watt CFL	Net Adjusted Demand Reduction (kW)	0.5	25.7	136.2	83.1	51.3	6.6	303.4
	15 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.04	0.02	0.02	0.02	0.01	0.02
	15 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	0.03	0.05	0.03	0.02	0.02	0.02	0.02
		15 Watt CFL							
Installed Winter peak kW	15 Watt CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	15 Watt CFL	Realization Rate	-	-	-	-	-	-	N/A
	15 Watt CFL	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	15 Watt CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	15 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	15 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		15 Watt CFL							
	16 Watt Par R30 CFL Flood	Total Participants	3	52	155	182	34	12	438
Installed kWh/year	16 Watt Par R30 CFL Flood	Total Gross Energy Savings (kWh/yr)	479	10,858	17,005	14,223	2,312	514	45,390
	16 Watt Par R30 CFL Flood	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	16 Watt Par R30 CFL Flood	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	16 Watt Par R30 CFL Flood	Net Adjusted Savings (kWh/yr)	605	13,711	21,473	17,960	2,920	649	57,319
	16 Watt Par R30 CFL Flood	Avg. Gross Savings per Participant (kWh/yr)	160	209	110	78	68	43	104
	16 Watt Par R30 CFL Flood	Avg. Net Savings per Participant (kWh/yr)	202	264	139	99	86	54	131
		16 Watt Par R30 CFL Flood							
Installed Summer peak kW	16 Watt Par R30 CFL Flood	Total Gross Demand Reduction (kW)	0.1	1.4	1.8	1.6	0.3	0.1	5.2
	16 Watt Par R30 CFL Flood	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	16 Watt Par R30 CFL Flood	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	16 Watt Par R30 CFL Flood	Net Adjusted Demand Reduction (kW)	0.1	1.8	2.3	2.0	0.3	0.1	6.5
	16 Watt Par R30 CFL Flood	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.03	0.01	0.01	0.01	0.00	0.01
	16 Watt Par R30 CFL Flood	Avg. Net Demand Reduction per Participant (kW)	0.02	0.03	0.01	0.01	0.01	0.01	0.01
		16 Watt Par R30 CFL Flood							
Installed Winter peak kW	16 Watt Par R30 CFL Flood	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	16 Watt Par R30 CFL Flood	Realization Rate	-	-	-	-	-	-	N/A
	16 Watt Par R30 CFL Flood	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	16 Watt Par R30 CFL Flood	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	16 Watt Par R30 CFL Flood	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	16 Watt Par R30 CFL Flood	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		16 Watt Par R30 CFL Flood							
	18 Watt CFL	Total Participants	14	1,104	15,053	10,984	13,652	1,275	42,082
Installed kWh/year	18 Watt CFL	Total Gross Energy Savings (kWh/yr)	4,092	471,180	3,637,602	2,017,661	2,790,770	244,677	9,165,982
	18 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	18 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	18 Watt CFL	Net Adjusted Savings (kWh/yr)	5,167	595,007	4,593,564	2,547,902	3,524,184	308,978	11,574,802
	18 Watt CFL	Avg. Gross Savings per Participant (kWh/yr)	292	427	242	184	204	192	218
	18 Watt CFL	Avg. Net Savings per Participant (kWh/yr)	369	539	305	232	258	242	275
		18 Watt CFL							
Installed Summer peak kW	18 Watt CFL	Total Gross Demand Reduction (kW)	0.5	54.6	343.2	226.3	317.8	27.9	970.2
	18 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	18 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	18 Watt CFL	Net Adjusted Demand Reduction (kW)	0.6	69.0	433.4	285.0	401.3	35.2	1,225.2
	18 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.05	0.02	0.02	0.02	0.02	0.02
	18 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	0.04	0.06	0.03	0.03	0.03	0.03	0.03
		18 Watt CFL							
Installed Winter peak kW	18 Watt CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0

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VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	18 Watt CFL	Realization Rate	-	-	-	-	-	-	N/A
	18 Watt CFL	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	18 Watt CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	18 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	18 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	20 Watt Dimmable	Total Participants	1	37	143	329	263	41	814
Installed kWh/year	20 Watt Dimmable	Total Gross Energy Savings (kWh/yr)	359	6,063	18,003	29,578	25,289	3,575	82,867
	20 Watt Dimmable	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	20 Watt Dimmable	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	20 Watt Dimmable	Net Adjusted Savings (kWh/yr)	453	7,657	22,734	37,351	31,935	4,514	104,645
	20 Watt Dimmable	Avg. Gross Savings per Participant (kWh/yr)	359	164	126	90	96	87	102
	20 Watt Dimmable	Avg. Net Savings per Participant (kWh/yr)	453	207	159	114	121	110	129
Installed Summer peak kW	20 Watt Dimmable	Total Gross Demand Reduction (kW)	0.0	0.7	1.5	3.3	2.9	0.4	8.9
	20 Watt Dimmable	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	20 Watt Dimmable	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	20 Watt Dimmable	Net Adjusted Demand Reduction (kW)	0.1	0.9	1.9	4.2	3.6	0.5	11.2
	20 Watt Dimmable	Avg. Gross Demand Reduction per Participant (kW)	0.04	0.02	0.01	0.01	0.01	0.01	0.01
	20 Watt Dimmable	Avg. Net Demand Reduction per Participant (kW)	0.05	0.02	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	20 Watt Dimmable	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	20 Watt Dimmable	Realization Rate	-	-	-	-	-	-	N/A
	20 Watt Dimmable	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	20 Watt Dimmable	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	20 Watt Dimmable	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	20 Watt Dimmable	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	20/23/33 Watt 3 Way CFL	Total Participants	0	319	2,294	1,357	1,300	59	5,329
Installed kWh/year	20/23/33 Watt 3 Way CFL	Total Gross Energy Savings (kWh/yr)	0	40,555	214,338	98,205	81,557	5,380	440,035
	20/23/33 Watt 3 Way CFL	Realization Rate	N/A	154%	154%	154%	154%	154%	154%
	20/23/33 Watt 3 Way CFL	Net-To-Gross Rate	N/A	82%	82%	82%	82%	82%	82%
	20/23/33 Watt 3 Way CFL	Net Adjusted Savings (kWh/yr)	0	51,213	270,666	124,013	102,991	6,794	555,677
	20/23/33 Watt 3 Way CFL	Avg. Gross Savings per Participant (kWh/yr)	N/A	127	93	72	63	91	83
	20/23/33 Watt 3 Way CFL	Avg. Net Savings per Participant (kWh/yr)	N/A	161	118	91	79	115	104
Installed Summer peak kW	20/23/33 Watt 3 Way CFL	Total Gross Demand Reduction (kW)	0.0	5.0	20.6	11.0	9.3	0.6	46.4
	20/23/33 Watt 3 Way CFL	Realization Rate	N/A	154%	154%	154%	154%	154%	154%
	20/23/33 Watt 3 Way CFL	Net-To-Gross Rate	N/A	82%	82%	82%	82%	82%	82%
	20/23/33 Watt 3 Way CFL	Net Adjusted Demand Reduction (kW)	0.0	6.3	26.0	13.9	11.7	0.8	58.7
	20/23/33 Watt 3 Way CFL	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.01	0.01	0.01	0.01	0.01
	20/23/33 Watt 3 Way CFL	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	20/23/33 Watt 3 Way CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	20/23/33 Watt 3 Way CFL	Realization Rate	-	-	-	-	-	-	N/A
	20/23/33 Watt 3 Way CFL	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	20/23/33 Watt 3 Way CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	20/23/33 Watt 3 Way CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	20/23/33 Watt 3 Way CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	23 Watt CFL	Total Participants	13	137	431	230	38	26	875
Installed kWh/year	23 Watt CFL	Total Gross Energy Savings (kWh/yr)	5,615	38,107	56,170	21,800	5,487	4,124	131,303
	23 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	23 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	23 Watt CFL	Net Adjusted Savings (kWh/yr)	7,090	48,122	70,931	27,529	6,929	5,208	165,810
	23 Watt CFL	Avg. Gross Savings per Participant (kWh/yr)	432	278	130	95	144	159	150
	23 Watt CFL	Avg. Net Savings per Participant (kWh/yr)	545	351	165	120	182	200	189
Installed Summer peak kW	23 Watt CFL	Total Gross Demand Reduction (kW)	0.6	4.7	5.4	2.4	0.6	0.5	14.2
	23 Watt CFL	Realization Rate	154%	154%	154%	154%	154%	154%	154%



VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	23 Watt CFL	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	23 Watt CFL	Net Adjusted Demand Reduction (kW)	0.8	5.9	6.8	3.1	0.8	0.6	17.9
	23 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	0.05	0.03	0.01	0.01	0.02	0.02	0.02
	23 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	0.06	0.04	0.02	0.01	0.02	0.02	0.02
Installed Winter peak kW	23 Watt CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	23 Watt CFL	Realization Rate	-	-	-	-	-	-	N/A
	23 Watt CFL	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	23 Watt CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	23 Watt CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	23 Watt CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	23 Watt Par R45 CFL Flood	Total Participants	2	12	39	48	6	0	107
Installed kWh/year	23 Watt Par R45 CFL Flood	Total Gross Energy Savings (kWh/yr)	335	2,530	4,087	4,900	897	0	12,748
	23 Watt Par R45 CFL Flood	Realization Rate	154%	154%	154%	154%	154%	N/A	154%
	23 Watt Par R45 CFL Flood	Net-To-Gross Rate	82%	82%	82%	82%	82%	N/A	82%
	23 Watt Par R45 CFL Flood	Net Adjusted Savings (kWh/yr)	423	3,194	5,161	6,187	1,132	0	16,098
	23 Watt Par R45 CFL Flood	Avg. Gross Savings per Participant (kWh/yr)	168	211	105	102	149	N/A	119
	23 Watt Par R45 CFL Flood	Avg. Net Savings per Participant (kWh/yr)	212	266	132	129	189	N/A	150
Installed Summer peak kW	23 Watt Par R45 CFL Flood	Total Gross Demand Reduction (kW)	0.0	0.3	0.4	0.5	0.1	0.0	1.4
	23 Watt Par R45 CFL Flood	Realization Rate	154%	154%	154%	154%	154%	N/A	154%
	23 Watt Par R45 CFL Flood	Net-To-Gross Rate	82%	82%	82%	82%	82%	N/A	82%
	23 Watt Par R45 CFL Flood	Net Adjusted Demand Reduction (kW)	0.0	0.4	0.5	0.7	0.1	0.0	1.8
	23 Watt Par R45 CFL Flood	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.03	0.01	0.01	0.02	N/A	0.01
	23 Watt Par R45 CFL Flood	Avg. Net Demand Reduction per Participant (kW)	0.02	0.03	0.01	0.01	0.02	N/A	0.02
Installed Winter peak kW	23 Watt Par R45 CFL Flood	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	23 Watt Par R45 CFL Flood	Realization Rate	-	-	-	-	-	-	N/A
	23 Watt Par R45 CFL Flood	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	23 Watt Par R45 CFL Flood	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	23 Watt Par R45 CFL Flood	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	23 Watt Par R45 CFL Flood	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Bathroom Aerator	Total Participants	9	174	2,674	2,073	2,035	56	7,021
Installed kWh/year	Bathroom Aerator	Total Gross Energy Savings (kWh/yr)	561	10,914	95,631	75,475	67,776	2,709	253,066
	Bathroom Aerator	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Bathroom Aerator	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Bathroom Aerator	Net Adjusted Savings (kWh/yr)	708	13,783	120,763	95,310	85,587	3,421	319,572
	Bathroom Aerator	Avg. Gross Savings per Participant (kWh/yr)	62	63	36	36	33	48	36
	Bathroom Aerator	Avg. Net Savings per Participant (kWh/yr)	79	79	45	46	42	61	46
Installed Summer peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	0.1	1.3	11.3	9.0	8.1	0.3	30.1
	Bathroom Aerator	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Bathroom Aerator	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	0.1	1.7	14.3	11.4	10.2	0.4	38.0
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.00	0.00	0.00	0.01	0.00
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Bathroom Aerator	Realization Rate	-	-	-	-	-	-	N/A
	Bathroom Aerator	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Central AC Filter Replacement	Total Participants	4	87	1,095	23	9	1	1,219
Installed kWh/year	Central AC Filter Replacement	Total Gross Energy Savings (kWh/yr)	51	1,334	15,964	330	115	12	17,805
	Central AC Filter Replacement	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Central AC Filter Replacement	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%



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Jun 14 2024

VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Central AC Filter Replacement	Net Adjusted Savings (kWh/yr)	64	1,684	20,159	417	145	15	22,484
	Central AC Filter Replacement	Avg. Gross Savings per Participant (kWh/yr)	13	15	15	14	13	12	15
	Central AC Filter Replacement	Avg. Net Savings per Participant (kWh/yr)	16	19	18	18	16	15	18
Installed Summer peak kW	Central AC Filter Replacement	Total Gross Demand Reduction (kW)	0.1	2.2	26.4	0.5	0.2	0.0	29.4
	Central AC Filter Replacement	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Central AC Filter Replacement	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Central AC Filter Replacement	Net Adjusted Demand Reduction (kW)	0.1	2.8	33.3	0.7	0.2	0.0	37.2
	Central AC Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.03	0.02	0.02	0.02	0.02	0.02
	Central AC Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03	0.03	0.02	0.03
Installed Winter peak kW	Central AC Filter Replacement	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Central AC Filter Replacement	Realization Rate	-	-	-	-	-	-	N/A
	Central AC Filter Replacement	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Central AC Filter Replacement	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Central AC Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Central AC Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	DHW Tank Wrap	Total Participants	9	89	141	87	27	17	370
Installed kWh/year	DHW Tank Wrap	Total Gross Energy Savings (kWh/yr)	711	6,241	33,462	20,358	6,330	3,985	71,087
	DHW Tank Wrap	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	DHW Tank Wrap	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	DHW Tank Wrap	Net Adjusted Savings (kWh/yr)	898	7,881	42,256	25,708	7,993	5,033	89,769
	DHW Tank Wrap	Avg. Gross Savings per Participant (kWh/yr)	79	70	237	234	234	234	192
	DHW Tank Wrap	Avg. Net Savings per Participant (kWh/yr)	100	89	300	295	296	296	243
Installed Summer peak kW	DHW Tank Wrap	Total Gross Demand Reduction (kW)	0.1	0.7	3.9	2.3	0.7	0.5	8.2
	DHW Tank Wrap	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	DHW Tank Wrap	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	DHW Tank Wrap	Net Adjusted Demand Reduction (kW)	0.1	0.9	4.9	3.0	0.9	0.6	10.3
	DHW Tank Wrap	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.03	0.03	0.03	0.03	0.02
	DHW Tank Wrap	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.03	0.03	0.03	0.03	0.03
Installed Winter peak kW	DHW Tank Wrap	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	DHW Tank Wrap	Realization Rate	-	-	-	-	-	-	N/A
	DHW Tank Wrap	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	DHW Tank Wrap	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	DHW Tank Wrap	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	DHW Tank Wrap	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Sweep	Total Participants	0	143	3,409	1,695	1,217	243	6,707
Installed kWh/year	Door Sweep	Total Gross Energy Savings (kWh/yr)	0	19,636	448,330	273,859	208,465	43,769	994,058
	Door Sweep	Realization Rate	N/A	154%	154%	154%	154%	154%	154%
	Door Sweep	Net-To-Gross Rate	N/A	82%	82%	82%	82%	82%	82%
	Door Sweep	Net Adjusted Savings (kWh/yr)	0	24,796	566,150	345,829	263,250	55,271	1,255,296
	Door Sweep	Avg. Gross Savings per Participant (kWh/yr)	N/A	137	132	162	171	180	148
	Door Sweep	Avg. Net Savings per Participant (kWh/yr)	N/A	173	166	204	216	227	187
Installed Summer peak kW	Door Sweep	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Door Sweep	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Door Sweep	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Door Sweep	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0	0.0
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0	0.0
Installed Winter peak kW	Door Sweep	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Sweep	Realization Rate	-	-	-	-	-	-	N/A
	Door Sweep	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Door Sweep	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-



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Jun 14 2024

VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Weatherization	Total Participants	1	165	679	83	27	1	956
Installed kWh/year	Door Weatherization	Total Gross Energy Savings (kWh/yr)	0	18,445	80,078	11,406	3,074	81	113,082
	Door Weatherization	Realization Rate	N/A	154%	154%	154%	154%	154%	154%
	Door Weatherization	Net-To-Gross Rate	N/A	82%	82%	82%	82%	82%	82%
	Door Weatherization	Net Adjusted Savings (kWh/yr)	0	23,292	101,122	14,403	3,881	102	142,800
	Door Weatherization	Avg. Gross Savings per Participant (kWh/yr)	0	112	118	137	114	81	118
	Door Weatherization	Avg. Net Savings per Participant (kWh/yr)	0	141	149	174	144	102	149
		Door Weatherization	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0
Installed Summer peak kW	Door Weatherization	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Door Weatherization	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Door Weatherization	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Door Weatherization	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Door Weatherization	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Door Weatherization	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Door Weatherization	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0
Installed Winter peak kW	Door Weatherization	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Weatherization	Realization Rate	-	-	-	-	-	-	N/A
	Door Weatherization	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Door Weatherization	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Weatherization	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Weatherization	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Door Weatherization	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Installed kWh/year	Heat Pump Filter Replacement	Total Participants	13	349	3,541	85	23	7	4,018
	Heat Pump Filter Replacement	Total Gross Energy Savings (kWh/yr)	570	13,635	130,901	3,382	796	245	149,528
	Heat Pump Filter Replacement	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Heat Pump Filter Replacement	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Heat Pump Filter Replacement	Net Adjusted Savings (kWh/yr)	719	17,218	165,302	4,271	1,005	309	188,824
	Heat Pump Filter Replacement	Avg. Gross Savings per Participant (kWh/yr)	44	39	37	40	35	35	37
	Heat Pump Filter Replacement	Avg. Net Savings per Participant (kWh/yr)	55	49	47	50	44	44	47
Installed Summer peak kW	Heat Pump Filter Replacement	Total Gross Demand Reduction (kW)	0.3	8.0	77.2	2.0	0.5	0.2	88.2
	Heat Pump Filter Replacement	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Heat Pump Filter Replacement	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Heat Pump Filter Replacement	Net Adjusted Demand Reduction (kW)	0.4	10.2	97.5	2.5	0.6	0.2	111.4
	Heat Pump Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.02	0.02	0.02	0.02	0.02	0.02
	Heat Pump Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		Heat Pump Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03	0.03	0.03
Installed Winter peak kW	Heat Pump Filter Replacement	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Heat Pump Filter Replacement	Realization Rate	-	-	-	-	-	-	N/A
	Heat Pump Filter Replacement	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Heat Pump Filter Replacement	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Heat Pump Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Heat Pump Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Heat Pump Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Installed kWh/year	Kitchen Aerator	Total Participants	2	50	1,506	652	854	37	3,101
	Kitchen Aerator	Total Gross Energy Savings (kWh/yr)	16	522	10,749	4,544	6,097	304	22,232
	Kitchen Aerator	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Kitchen Aerator	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Kitchen Aerator	Net Adjusted Savings (kWh/yr)	20	659	13,574	5,738	7,700	384	28,074
	Kitchen Aerator	Avg. Gross Savings per Participant (kWh/yr)	8	10	7	7	7	8	7
	Kitchen Aerator	Avg. Net Savings per Participant (kWh/yr)	10	13	9	9	9	10	9
Installed Summer peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	0.0	0.1	1.3	0.5	0.7	0.0	2.7
	Kitchen Aerator	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Kitchen Aerator	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	0.0	0.1	1.7	0.7	0.9	0.0	3.4
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00



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VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017	
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	
Installed Winter peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0	
		Realization Rate	-	-	-	-	-	-	N/A	
		Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Installed kWh/year	Pipe Insulation - Pipe Diameter 1/2 Inches	Total Participants	3	145	914	1,732	1,238	165	4,197	
		Total Gross Energy Savings (kWh/yr)	625	14,025	107,725	222,688	161,094	23,423	529,580	
		Realization Rate	154%	154%	154%	154%	154%	154%	154%	154%
		Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%	82%
		Net Adjusted Savings (kWh/yr)	789	17,741	136,035	281,210	203,430	29,579	668,754	
		Avg. Gross Savings per Participant (kWh/yr)	208	97	118	129	130	142	126	
		Avg. Net Savings per Participant (kWh/yr)	263	122	149	162	164	179	159	
Installed Summer peak kW	Pipe Insulation - Pipe Diameter 1/2 Inches	Total Gross Demand Reduction (kW)	0.1	1.1	8.6	17.8	18.4	2.7	48.7	
		Realization Rate	154%	154%	154%	154%	154%	154%	154%	
		Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%	
		Net Adjusted Demand Reduction (kW)	0.1	1.4	10.9	22.5	23.2	3.4	61.5	
		Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.01	0.02	0.01	
		Avg. Net Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.01	0.02	0.01	
Installed Winter peak kW	Pipe Insulation - Pipe Diameter 1/2 Inches	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0	
		Realization Rate	-	-	-	-	-	-	-	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	-
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Installed kWh/year	Pipe Insulation - Pipe Diameter 3/4 Inches	Total Participants	12	438	6,230	5,214	4,531	717	17,142	
		Total Gross Energy Savings (kWh/yr)	2,792	88,076	994,117	1,086,588	1,029,595	165,746	3,366,914	
		Realization Rate	154%	154%	154%	154%	154%	154%	154%	
		Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%	
		Net Adjusted Savings (kWh/yr)	3,526	111,223	1,255,371	1,372,143	1,300,172	209,304	4,251,739	
		Avg. Gross Savings per Participant (kWh/yr)	233	201	160	208	227	231	196	
Avg. Net Savings per Participant (kWh/yr)	294	254	202	263	287	292	248			
Installed Summer peak kW	Pipe Insulation - Pipe Diameter 3/4 Inches	Total Gross Demand Reduction (kW)	0.4	11.6	131.4	143.6	117.5	18.9	423.4	
		Realization Rate	154%	154%	154%	154%	154%	154%	154%	
		Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%	
		Net Adjusted Demand Reduction (kW)	0.5	14.7	165.9	181.3	148.4	23.9	534.7	
		Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.02	0.03	0.03	0.03	0.02	
		Avg. Net Demand Reduction per Participant (kW)	0.04	0.03	0.03	0.03	0.03	0.03	0.03	
Installed Winter peak kW	Pipe Insulation - Pipe Diameter 3/4 Inches	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0	
		Realization Rate	-	-	-	-	-	-	-	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	-
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Installed kWh/year	Refrigerator Temperature Increase	Total Participants	17	1,068	8,556	84	0	0	9,725	
		Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	
		Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	
		Avg. Gross Savings per Participant (kWh/yr)	0	0	0	0	0	N/A	N/A	
Avg. Net Savings per Participant (kWh/yr)	0	0	0	0	0	N/A	N/A			





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VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
Installed Summer peak kW	Refrigerator Temperature Increase	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigerator Temperature Increase	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigerator Temperature Increase	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigerator Temperature Increase	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigerator Temperature Increase	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	N/A	N/A	0.0
	Refrigerator Temperature Increase	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	N/A	N/A	0.0
Installed Winter peak kW	Refrigerator Temperature Increase	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigerator Temperature Increase	Realization Rate	-	-	-	-	-	-	N/A
	Refrigerator Temperature Increase	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigerator Temperature Increase	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigerator Temperature Increase	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigerator Temperature Increase	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Showerhead	Total Participants	6	167	6,676	4,909	5,715	832	18,305
Installed kWh/year	Showerhead	Total Gross Energy Savings (kWh/yr)	526	38,753	1,500,321	1,260,711	1,353,656	242,806	4,396,773
	Showerhead	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Showerhead	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Showerhead	Net Adjusted Savings (kWh/yr)	664	48,937	1,894,606	1,592,026	1,709,396	306,616	5,552,245
	Showerhead	Avg. Gross Savings per Participant (kWh/yr)	88	232	225	257	237	292	240
	Showerhead	Avg. Net Savings per Participant (kWh/yr)	111	293	284	324	299	369	303
Installed Summer peak kW	Showerhead	Total Gross Demand Reduction (kW)	0.1	2.9	104.7	81.4	90.3	14.4	293.8
	Showerhead	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Showerhead	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Showerhead	Net Adjusted Demand Reduction (kW)	0.1	3.7	132.2	102.8	114.1	18.1	371.0
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.02	0.02	0.02	0.02	0.02	0.02
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Installed Winter peak kW	Showerhead	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Showerhead	Realization Rate	-	-	-	-	-	-	N/A
	Showerhead	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Showerhead	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Smart Strip 7 Outlet	Total Participants	13	780	6,247	4,645	5,508	221	17,414
Installed kWh/year	Smart Strip 7 Outlet	Total Gross Energy Savings (kWh/yr)	2,673	140,425	977,217	757,143	491,230	14,717	2,383,404
	Smart Strip 7 Outlet	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Smart Strip 7 Outlet	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Smart Strip 7 Outlet	Net Adjusted Savings (kWh/yr)	3,375	177,328	1,234,029	956,120	620,325	18,584	3,009,762
	Smart Strip 7 Outlet	Avg. Gross Savings per Participant (kWh/yr)	206	180	156	163	89	67	137
	Smart Strip 7 Outlet	Avg. Net Savings per Participant (kWh/yr)	260	227	198	206	113	84	173
Installed Summer peak kW	Smart Strip 7 Outlet	Total Gross Demand Reduction (kW)	0.3	16.4	114.1	88.4	61.9	1.9	282.9
	Smart Strip 7 Outlet	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Smart Strip 7 Outlet	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Smart Strip 7 Outlet	Net Adjusted Demand Reduction (kW)	0.4	20.7	144.1	111.6	78.1	2.3	357.2
	Smart Strip 7 Outlet	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02	0.01	0.01	0.02
	Smart Strip 7 Outlet	Avg. Net Demand Reduction per Participant (kW)	0.03	0.03	0.02	0.02	0.01	0.01	0.02
Installed Winter peak kW	Smart Strip 7 Outlet	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Smart Strip 7 Outlet	Realization Rate	-	-	-	-	-	-	N/A
	Smart Strip 7 Outlet	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Smart Strip 7 Outlet	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Smart Strip 7 Outlet	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Smart Strip 7 Outlet	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 10 Degrees	Total Participants	4	283	6,246	4,192	3,455	467	14,647
Installed kWh/year	Water Heater Turndown 10 Degrees	Total Gross Energy Savings (kWh/yr)	584	41,026	913,084	341,730	187,796	25,376	1,509,596



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VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Water Heater Turndown 10 Degrees	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Water Heater Turndown 10 Degrees	Net Adjusted Savings (kWh/yr)	737	51,808	1,153,042	431,536	237,149	32,045	1,906,318
	Water Heater Turndown 10 Degrees	Avg. Gross Savings per Participant (kWh/yr)	146	145	146	82	54	54	103
	Water Heater Turndown 10 Degrees	Avg. Net Savings per Participant (kWh/yr)	184	183	185	103	69	69	130
Installed Summer peak kW	Water Heater Turndown 10 Degrees	Total Gross Demand Reduction (kW)	0.1	4.8	106.3	37.7	21.4	2.9	173.2
	Water Heater Turndown 10 Degrees	Realization Rate	154%	154%	154%	154%	154%	154%	154%
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	82%	82%	82%
	Water Heater Turndown 10 Degrees	Net Adjusted Demand Reduction (kW)	0.1	6.0	134.3	47.7	27.1	3.7	218.8
	Water Heater Turndown 10 Degrees	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	0.01	0.01	0.01
	Water Heater Turndown 10 Degrees	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Installed Winter peak kW	Water Heater Turndown 10 Degrees	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 10 Degrees	Realization Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 10 Degrees	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 10 Degrees	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 10 Degrees	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 15 Degrees	Total Participants	0	45	220	2	0	0	267
Installed kWh/year	Water Heater Turndown 15 Degrees	Total Gross Energy Savings (kWh/yr)	0	6,424	32,120	163	0	0	38,707
	Water Heater Turndown 15 Degrees	Realization Rate	N/A	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 15 Degrees	Net-To-Gross Rate	N/A	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 15 Degrees	Net Adjusted Savings (kWh/yr)	0	8,112	40,561	206	0	0	48,879
	Water Heater Turndown 15 Degrees	Avg. Gross Savings per Participant (kWh/yr)	N/A	143	146	82	N/A	N/A	145
	Water Heater Turndown 15 Degrees	Avg. Net Savings per Participant (kWh/yr)	N/A	180	184	103	N/A	N/A	183
Installed Summer peak kW	Water Heater Turndown 15 Degrees	Total Gross Demand Reduction (kW)	0.0	0.7	3.7	0.0	0.0	0.0	4.5
	Water Heater Turndown 15 Degrees	Realization Rate	N/A	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 15 Degrees	Net-To-Gross Rate	N/A	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 15 Degrees	Net Adjusted Demand Reduction (kW)	0.0	0.9	4.7	0.0	0.0	0.0	5.7
	Water Heater Turndown 15 Degrees	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.01	N/A	N/A	0.02
	Water Heater Turndown 15 Degrees	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.01	N/A	N/A	0.02
Installed Winter peak kW	Water Heater Turndown 15 Degrees	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 15 Degrees	Realization Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 15 Degrees	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 15 Degrees	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 15 Degrees	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 15 Degrees	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 20 Degrees	Total Participants	4	79	1,595	9	0	0	1,687
Installed kWh/year	Water Heater Turndown 20 Degrees	Total Gross Energy Savings (kWh/yr)	584	11,534	232,870	734	0	0	245,722
	Water Heater Turndown 20 Degrees	Realization Rate	154%	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 20 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 20 Degrees	Net Adjusted Savings (kWh/yr)	737	14,565	294,068	926	0	0	310,297
	Water Heater Turndown 20 Degrees	Avg. Gross Savings per Participant (kWh/yr)	146	146	146	82	N/A	N/A	146
	Water Heater Turndown 20 Degrees	Avg. Net Savings per Participant (kWh/yr)	184	184	184	103	N/A	N/A	184
Installed Summer peak kW	Water Heater Turndown 20 Degrees	Total Gross Demand Reduction (kW)	0.1	1.3	27.1	0.1	0.0	0.0	28.6
	Water Heater Turndown 20 Degrees	Realization Rate	154%	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 20 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 20 Degrees	Net Adjusted Demand Reduction (kW)	0.1	1.7	34.2	0.1	0.0	0.0	36.1
	Water Heater Turndown 20 Degrees	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	N/A	N/A	0.02
	Water Heater Turndown 20 Degrees	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	N/A	N/A	0.02
Installed Winter peak kW	Water Heater Turndown 20 Degrees	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 20 Degrees	Realization Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 20 Degrees	Net-To-Gross Rate	-	-	-	-	-	-	N/A



VA - Residential Home Energy Check-up Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Water Heater Turndown 20 Degrees	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 20 Degrees	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 20 Degrees	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 5 Degrees	Total Participants	1	99	544	16	0	0	660
Installed kWh/year	Water Heater Turndown 5 Degrees	Total Gross Energy Savings (kWh/yr)	146	14,454	79,716	1,304	0	0	95,620
	Water Heater Turndown 5 Degrees	Realization Rate	154%	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 5 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 5 Degrees	Net Adjusted Savings (kWh/yr)	184	18,253	100,665	1,647	0	0	120,749
	Water Heater Turndown 5 Degrees	Avg. Gross Savings per Participant (kWh/yr)	146	146	147	82	N/A	N/A	145
	Water Heater Turndown 5 Degrees	Avg. Net Savings per Participant (kWh/yr)	184	184	185	103	N/A	N/A	183
Installed Summer peak kW	Water Heater Turndown 5 Degrees	Total Gross Demand Reduction (kW)	0.0	1.7	9.3	0.1	0.0	0.0	11.1
	Water Heater Turndown 5 Degrees	Realization Rate	154%	154%	154%	154%	N/A	N/A	154%
	Water Heater Turndown 5 Degrees	Net-To-Gross Rate	82%	82%	82%	82%	N/A	N/A	82%
	Water Heater Turndown 5 Degrees	Net Adjusted Demand Reduction (kW)	0.0	2.1	11.7	0.2	0.0	0.0	14.0
	Water Heater Turndown 5 Degrees	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	N/A	N/A	0.02
	Water Heater Turndown 5 Degrees	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	N/A	N/A	0.02
Installed Winter peak kW	Water Heater Turndown 5 Degrees	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 5 Degrees	Realization Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 5 Degrees	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Water Heater Turndown 5 Degrees	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Water Heater Turndown 5 Degrees	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Water Heater Turndown 5 Degrees	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Window Unit Filter Replacement	Total Participants	0	1	5	0	0	0	6
	Window Unit Filter Replacement	Total Gross Energy Savings (kWh/yr)	0	0	9	0	0	0	9
	Window Unit Filter Replacement	Realization Rate	N/A	N/A	154%	N/A	N/A	N/A	154%
	Window Unit Filter Replacement	Net-To-Gross Rate	N/A	N/A	82%	N/A	N/A	N/A	82%
	Window Unit Filter Replacement	Net Adjusted Savings (kWh/yr)	0	0	11	0	0	0	11
	Window Unit Filter Replacement	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	2	N/A	N/A	N/A	1
	Window Unit Filter Replacement	Avg. Net Savings per Participant (kWh/yr)	N/A	0	2	N/A	N/A	N/A	2
Installed Summer peak kW	Window Unit Filter Replacement	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Window Unit Filter Replacement	Realization Rate	N/A	N/A	154%	N/A	N/A	N/A	154%
	Window Unit Filter Replacement	Net-To-Gross Rate	N/A	N/A	82%	N/A	N/A	N/A	82%
	Window Unit Filter Replacement	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Window Unit Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.01	N/A	N/A	N/A	0.00
	Window Unit Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.01	N/A	N/A	N/A	0.01
Installed Winter peak kW	Window Unit Filter Replacement	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Window Unit Filter Replacement	Realization Rate	-	-	-	-	-	-	N/A
	Window Unit Filter Replacement	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Window Unit Filter Replacement	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Window Unit Filter Replacement	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Window Unit Filter Replacement	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-

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J.57.3 2012-2017 Virginia Residential Home Energy Check-up Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Residential Home Energy Check-up	2011		PUE-2011-00093	4.35	1.73	2.27	0.62
2	Residential Home Energy Check-up	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Residential Home Energy Check-up	2013		PUE-2013-00072	4.48	0.93	1.06	0.41
2	Residential Home Energy Check-up	2014		PUE-2014-00071	3.87	0.69	0.79	0.35
2	Residential Home Energy Check-up	2015		PUE-2015-00089	5.32	0.94	1.07	0.39
2	Residential Home Energy Check-up	2016		PUE-2016-00111	N/A	N/A	N/A	N/A

1. Program closed end of 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated.
3. The 2017 total gross deemed savings values reported in this table include adjustments of -2.1 kWh/year and -0.00044 kW made to the January 2017 reported savings. The adjustments accounts for corrections to STEP Manual version 7.0.0 issued on May 1, 2017. Specifically, the correction was in section 2.1.5 for "Low-Flow Showerhead" measures, to the "ΔT" variable, which is a measure of the change in temperature of the water used for shower and temperature entering the house ( $\Delta T = T_{\text{shower}} - T_{\text{in house}}$ ). STEP Manual 7.0.0 reported the value as 44.9°F, but has been corrected to 44.1°F. This correction is reflected in STEP Manual version 8.0.0 in this EM&V report.
4. Realization Rate Adjustment occurred in 2015. 2012-2014 Net to Gross Adjustment was 80.0%. From 2015 forward Net to Gross Adjustment was 82% and Realization Rate as adjusted to 154%.



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J.58 Virginia Residential Appliance Recycling Program (Phase IV) 2015–2018

J.58.1 2015-2018 Virginia Residential Appliance Recycling Program (Phase IV) Annual Indicator Tables

VA - Residential Appliance Recycling Program			2015	2016	2017	2018	2015-2016	2015-2017	2015-2018
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$929,051	\$2,160,027	\$981,865	\$54,790	\$3,089,078	\$4,070,943	\$4,125,733
Costs (\$)		Planned	\$1,102,158	\$2,072,738	\$1,086,648	\$10,474	\$3,174,896	\$4,261,545	\$4,272,019
Costs (\$)		Variance	-\$173,107	\$87,289	-\$104,783	\$44,316	-\$85,818	-\$190,601	-\$146,286
		Annual % of Planned	84%	104%	90%	523%	97%	96%	97%
Participants <sup>1</sup>		Total (Gross)	3,141	7,734	3,129	0	10,875	14,004	14,004
		Planned	3,750	7,500	3,000	0	11,250	14,250	14,250
		Variance	-609	234	129	0	-375	-246	-246
		Annual % of Planned (Gross)	84%	103%	104%	N/A	97%	98%	98%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	3,447,939	7,722,529	3,016,432	0	11,170,469	14,186,901	14,186,901
		Realization Rate Weighted by Measure	100%	100%	100%	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	3,447,939	7,722,529	3,016,432	0	11,170,469	14,186,901	14,186,901
		Net-To-Gross Rate Weighted by Measure	77%	77%	77%	N/A	77%	77%	77%
		Net-To-Gross Adjustment (kWh/yr)	-793,026	-1,776,182	-693,779	0	-2,569,208	-3,262,987	-3,262,987
		Net Adjusted Savings (kWh/yr)	2,654,913	5,946,347	2,322,653	0	8,601,261	10,923,913	10,923,913
		Planned Net Savings (kWh/yr)	6,564,000	3,736,801	1,346,206	0	10,300,801	11,647,008	11,647,008
		Annual % Toward Planned Net Savings	40.4%	159.1%	172.5%	N/A	83.5%	93.8%	93.8%
		Avg. Gross Savings per Participant (kWh/yr)	1,098	999	964	N/A	1,027	1,013	1,013
		Avg. Net Savings per Participant (kWh/yr)	845	769	742	N/A	791	780	780
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	516.1	1,155.9	451.5	0.0	1,672.0	2,123.5	2,123.5
		Realization Rate Weighted by Measure	100%	100%	100%	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	516.1	1,155.9	451.5	0.0	1,672.0	2,123.5	2,123.5
		Net-To-Gross Rate Weighted by Measure	77%	77%	77%	N/A	77%	77%	77%
		Net-To-Gross Adjustment (kW)	-118.7	-265.9	-103.8	0.0	-384.6	-488.4	-488.4
		Net Adjusted Demand Reduction (kW)	397.4	890.0	347.7	0.0	1,287.4	1,635.1	1,635.1
		Planned Net Savings (kW)	1,220.7	559.4	201.5	0.0	1,780.1	1,981.7	1,981.7
		Annual % Toward Planned Net Reduction	32.6%	159.1%	172.5%	N/A	72.3%	82.5%	82.5%
		Avg. Gross Demand Reduction per Participant (kW)	0.2	0.1	0.1	N/A	0.2	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.1	N/A	0.1	0.1	0.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0
		Realization Rate Weighted by Measure	-	-	-	-	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$7	\$8	\$9	\$9	\$8	\$9	\$9
		\$Admin. per kWh/year (Gross)	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$42	\$52	\$59	\$61	\$52	\$59	\$61
		\$EM&V per \$Total	1.1%	3.5%	4.4%	5.6%	3.5%	4.4%	5.6%
		\$Rebate per Participant (Gross)	\$52	\$51	\$50	\$50	\$51	\$50	\$50



J.58.2 2015-2018 Virginia Residential Appliance Recycling Program (Phase IV) Measure Indicator Tables

VA - Residential Appliance Recycling Program			2015	2016	2017	2018	2015-2016	2015-2017	2015-2018
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	Freezer	Total Participants	798	1,498	582	0	2,296	2,878	2,878
	Freezer	Total Gross Energy Savings (kWh/yr)	781,470	1,302,450	465,075	0	2,083,920	2,548,995	2,548,995
	Freezer	Realization Rate	100%	100%	100%	N/A	100%	100%	100%
	Freezer	Net-To-Gross Rate	77%	77%	77%	N/A	77%	77%	77%
	Freezer	Net Adjusted Savings (kWh/yr)	601,732	1,002,886	358,107	0	1,604,619	1,962,726	1,962,726
	Freezer	Avg. Gross Savings per Participant (kWh/yr)	979	869	799	N/A	908	886	886
	Freezer	Avg. Net Savings per Participant (kWh/yr)	754	669	615	N/A	699	682	682
Installed Summer peak kW	Freezer	Total Gross Demand Reduction (kW)	117.0	194.9	69.6	0.0	311.9	381.5	381.5
	Freezer	Realization Rate	100%	100%	100%	N/A	100%	100%	100%
	Freezer	Net-To-Gross Rate	77%	77%	77%	N/A	77%	77%	77%
	Freezer	Net Adjusted Demand Reduction (kW)	90.1	150.1	53.6	0.0	240.2	293.8	293.8
	Freezer	Avg. Gross Demand Reduction per Participant (kW)	0.1	0.1	0.1	N/A	0.1	0.1	0.1
	Freezer	Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.09	N/A	0.1	0.1	0.1
	Installed Winter peak kW	Freezer	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0
Freezer		Realization Rate	-	-	-	-	N/A	N/A	N/A
Freezer		Net-To-Gross Rate	-	-	-	-	N/A	N/A	N/A
Freezer		Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0
Freezer		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Freezer		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year		Refrigerator	Total Participants	2,343	6,236	2,547	0	8,579	11,126
	Refrigerator	Total Gross Energy Savings (kWh/yr)	2,666,469	6,420,079	2,551,357	0	9,086,548	11,637,906	11,637,906
	Refrigerator	Realization Rate	100%	100%	100%	N/A	100%	100%	100%
	Refrigerator	Net-To-Gross Rate	77%	77%	77%	N/A	77%	77%	77%
	Refrigerator	Net Adjusted Savings (kWh/yr)	2,053,181	4,943,461	1,964,545	0	6,996,642	8,961,187	8,961,187
	Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	1,138	1,030	1,002	N/A	1,059	1,046	1,046
	Refrigerator	Avg. Net Savings per Participant (kWh/yr)	876	793	771	N/A	816	805	805
Installed Summer peak kW	Refrigerator	Total Gross Demand Reduction (kW)	399.1	960.9	381.9	0.0	1,360.1	1,741.9	1,741.9
	Refrigerator	Realization Rate	100%	100%	100%	N/A	100%	100%	100%
	Refrigerator	Net-To-Gross Rate	77%	77%	77%	N/A	77%	77%	77%
	Refrigerator	Net Adjusted Demand Reduction (kW)	307.3	739.9	294.0	0.0	1,047.2	1,341.3	1,341.3
	Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	0.2	0.2	0.1	N/A	0.2	0.2	0.2
	Refrigerator	Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.1	N/A	0.1	0.1	0.1
	Installed Winter peak kW	Refrigerator	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0
Refrigerator		Realization Rate	-	-	-	-	N/A	N/A	N/A
Refrigerator		Net-To-Gross Rate	-	-	-	-	N/A	N/A	N/A
Refrigerator		Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0
Refrigerator		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Refrigerator		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-



J.58.3 2015-2018 Virginia Residential Appliance Recycling Program (Phase IV) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
4	Residential Appliance Recycling	2014		PUE-2014-00071	++	1.68	2.30	0.48
4	Residential Appliance Recycling	2015		PUE-2015-00089	N/A	N/A	N/A	N/A
4	Residential Appliance Recycling	2016		PUE-2016-00111	++	1.24	1.49	0.34
4	Residential Appliance Recycling	2018		PUR-2018-00168	N/A	N/A	N/A	N/A

1. Program closed end of 2017.
2. A participant is a unique account number.

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**J.59 Virginia Commercial Lighting Program (Phase I) 2010–2012**

**J.59.1 2010-2012 Virginia Commercial Lighting Program (Phase I) Annual Indicator Tables**

VA - Commercial Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
O&M (\$)		Direct Rebate				
O&M (\$)		Direct Implementation				
O&M (\$)		Direct EM&V				
O&M (\$)		Indirect Other (Administrative)				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$1,896,257	\$5,239,777	\$2,682,806	\$9,818,840
Costs (\$)		Planned	\$1,683,194	\$6,018,217	\$9,231,456	\$16,932,868
Costs (\$)		Variance	\$213,062	-\$778,440	-\$6,548,651	-\$7,114,028
		Annual % of Planned	113%	87%	29%	58%
Participants <sup>1</sup>		Total (Gross)	399	1,307	703	2,409
		Planned	26	146	32	204
		Variance	373	1,161	671	2,205
		Annual % of Planned (Gross)	1535%	895%	2197%	1181%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	13,533,989	42,212,316	23,709,597	79,455,902
		Realization Rate Weighted by Measure	178%	178%	178%	178%
		Realization Rate Adjustment (kWh/yr)	10,581,378	32,807,324	18,502,017	61,890,718
		Realization Rate Adjusted Savings (kWh/yr)	24,115,366	75,019,641	42,211,614	141,346,621
		Net-To-Gross Rate Weighted by Measure	50%	50%	50%	50%
		Net-To-Gross Adjustment (kWh/yr)	-12,057,683	-37,509,820	-21,105,807	-70,673,310
		Net Adjusted Savings (kWh/yr)	12,057,683	37,509,820	21,105,807	70,673,310
		Planned Net Savings (kWh/yr)	6,364,934	35,764,075	7,716,991	49,846,000
		Annual % Toward Planned Net Savings	189.4%	104.9%	273.5%	141.8%
		Avg. Gross Savings per Participant (kWh/yr)	33,920	32,297	33,726	32,983
		Avg. Net Savings per Participant (kWh/yr)	30,220	28,699	30,022	29,337
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	3,048.7	9,553.1	5,449.8	18,051.7
		Realization Rate Weighted by Measure	98%	98%	98%	98%
		Realization Rate Adjustment (kW)	-61.0	-191.1	-109.0	-361.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	2,987.8	9,362.0	5,340.8	17,690.6
		Net-To-Gross Rate Weighted by Measure	50%	50%	50%	50%
		Net-To-Gross Adjustment (kW)	-1,524.4	-4,776.6	-2,724.9	-9,025.8
		Net Adjusted Demand Reduction (kW)	1,493.9	4,681.0	2,670.4	8,845.3
		Planned Net Savings (kW)	798.0	4,490.0	969.0	6,257.0
		Annual % Toward Planned Net Reduction	187.2%	104.3%	275.6%	141.4%
		Avg. Gross Demand Reduction per Participant (kW)	7.6	7.3	7.8	7.5
		Avg. Net Demand Reduction per Participant (kW)	3.7	3.6	3.8	3.7
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$1,441	\$583	\$542	\$542
		\$Admin. per kWh/year (Gross)	\$0.04	\$0.02	\$0.02	\$0.02
		\$Admin. per kW (Gross)	\$189	\$79	\$72	\$72
		\$EM&V per \$Total	1.3%	4.7%	3.9%	3.9%
		\$Rebate per Participant (Gross)	\$2,445	\$2,739	\$2,722	\$2,722

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J.59.2 2010-2012 Virginia Commercial Lighting Program (Phase I)  
Measure Indicator Tables

VA - Commercial Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	CFL	Total Participants	36	121	87	244
Installed kWh/year	CFL	Total Gross Energy Savings (kWh/yr)	473,181	4,050,161	1,458,287	5,981,629
	CFL	Realization Rate	178%	178%	178%	178%
	CFL	Net-To-Gross Rate	50%	50%	50%	50%
	CFL	Net Adjusted Savings (kWh/yr)	420,756	3,595,779	1,298,378	5,314,913
	CFL	Avg. Gross Savings per Participant (kWh/yr)	13,144	33,472	16,762	24,516
	CFL	Avg. Net Savings per Participant (kWh/yr)	11,688	29,717	14,924	21,782
Installed Summer peak kW	CFL	Total Gross Demand Reduction (kW)	117.2	926.4	323.7	1,367.3
	CFL	Realization Rate	98%	98%	98%	98%
	CFL	Net-To-Gross Rate	50%	50%	50%	50%
	CFL	Net Adjusted Demand Reduction (kW)	57.4	453.9	158.6	670.0
	CFL	Avg. Gross Demand Reduction per Participant (kW)	3.3	7.7	3.7	5.6
	CFL	Avg. Net Demand Reduction per Participant (kW)	1.6	3.8	1.8	2.7
Installed Winter peak kW	CFL	Total Gross Demand Reduction (kW)	-	-	-	0.0
	CFL	Realization Rate	-	-	-	N/A
	CFL	Net-To-Gross Rate	-	-	-	N/A
	CFL	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Controls	Total Participants	1	6	6	13
Installed kWh/year	Controls	Total Gross Energy Savings (kWh/yr)	120,225	2,821,088	688,063	3,629,376
	Controls	Realization Rate	179%	177%	179%	178%
	Controls	Net-To-Gross Rate	50%	50%	50%	50%
	Controls	Net Adjusted Savings (kWh/yr)	107,601	2,499,009	614,863	3,221,474
	Controls	Avg. Gross Savings per Participant (kWh/yr)	120,225	470,181	114,677	279,183
	Controls	Avg. Net Savings per Participant (kWh/yr)	107,601	416,502	102,477	247,806
Installed Summer peak kW	Controls	Total Gross Demand Reduction (kW)	32.7	771.6	199.7	1,004.0
	Controls	Realization Rate	98%	98%	98%	98%
	Controls	Net-To-Gross Rate	50%	50%	50%	50%
	Controls	Net Adjusted Demand Reduction (kW)	16.0	378.1	97.9	492.0
	Controls	Avg. Gross Demand Reduction per Participant (kW)	32.7	128.6	33.3	77.2
	Controls	Avg. Net Demand Reduction per Participant (kW)	16.0	63.0	16.3	37.8
Installed Winter peak kW	Controls	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Controls	Realization Rate	-	-	-	N/A
	Controls	Net-To-Gross Rate	-	-	-	N/A
	Controls	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Controls	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Controls	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	High Performance T8	Total Participants	107	215	88	410
Installed kWh/year	High Performance T8	Total Gross Energy Savings (kWh/yr)	4,787,488	10,694,414	5,948,651	21,430,553
	High Performance T8	Realization Rate	178%	178%	178%	178%
	High Performance T8	Net-To-Gross Rate	50%	50%	50%	50%
	High Performance T8	Net Adjusted Savings (kWh/yr)	4,255,570	9,505,746	5,286,819	19,048,135
	High Performance T8	Avg. Gross Savings per Participant (kWh/yr)	44,743	49,741	67,598	52,270
	High Performance T8	Avg. Net Savings per Participant (kWh/yr)	39,772	44,213	60,077	46,459
Installed Summer peak kW	High Performance T8	Total Gross Demand Reduction (kW)	1,058.1	2,288.6	1,273.2	4,619.9
	High Performance T8	Realization Rate	98%	98%	98%	98%
	High Performance T8	Net-To-Gross Rate	50%	50%	50%	50%
	High Performance T8	Net Adjusted Demand Reduction (kW)	518.5	1,121.4	623.9	2,263.7
	High Performance T8	Avg. Gross Demand Reduction per Participant (kW)	9.9	10.6	14.5	11.3
	High Performance T8	Avg. Net Demand Reduction per Participant (kW)	4.8	5.2	7.1	5.5
Installed Winter peak kW	High Performance T8	Total Gross Demand Reduction (kW)	-	-	-	0.0

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VA - Commercial Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	High Performance T8	Realization Rate	-	-	-	N/A
	High Performance T8	Net-To-Gross Rate	-	-	-	N/A
	High Performance T8	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	High Performance T8	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	High Performance T8	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	LED Lamps	Total Participants	168	793	406	1,367
Installed kWh/year	LED Lamps	Total Gross Energy Savings (kWh/yr)	2,333,888	10,012,809	4,554,352	16,901,049
	LED Lamps	Realization Rate	179%	178%	178%	178%
	LED Lamps	Net-To-Gross Rate	50%	50%	50%	50%
	LED Lamps	Net Adjusted Savings (kWh/yr)	2,083,478	8,910,499	4,045,503	15,039,480
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	13,892	12,626	11,218	12,364
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	12,402	11,236	9,964	11,002
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	285.0	1,734.8	924.1	2,944.0
	LED Lamps	Realization Rate	98%	98%	98%	98%
	LED Lamps	Net-To-Gross Rate	50%	50%	50%	50%
	LED Lamps	Net Adjusted Demand Reduction (kW)	139.6	850.1	452.8	1,442.5
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	1.7	2.2	2.3	2.2
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	0.8	1.1	1.1	1.1
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	-	-	0.0
	LED Lamps	Realization Rate	-	-	-	N/A
	LED Lamps	Net-To-Gross Rate	-	-	-	N/A
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Metal Halide - Pulse Start	Total Participants	4	9	8	21
Installed kWh/year	Metal Halide - Pulse Start	Total Gross Energy Savings (kWh/yr)	227,215	1,066,919	558,515	1,852,649
	Metal Halide - Pulse Start	Realization Rate	178%	178%	178%	178%
	Metal Halide - Pulse Start	Net-To-Gross Rate	50%	50%	50%	50%
	Metal Halide - Pulse Start	Net Adjusted Savings (kWh/yr)	202,734	952,176	497,900	1,652,811
	Metal Halide - Pulse Start	Avg. Gross Savings per Participant (kWh/yr)	56,804	118,547	69,814	88,221
	Metal Halide - Pulse Start	Avg. Net Savings per Participant (kWh/yr)	50,683	105,797	62,238	78,705
Installed Summer peak kW	Metal Halide - Pulse Start	Total Gross Demand Reduction (kW)	71.7	324.6	180.4	576.7
	Metal Halide - Pulse Start	Realization Rate	98%	98%	98%	98%
	Metal Halide - Pulse Start	Net-To-Gross Rate	50%	50%	50%	50%
	Metal Halide - Pulse Start	Net Adjusted Demand Reduction (kW)	35.1	159.1	88.4	282.6
	Metal Halide - Pulse Start	Avg. Gross Demand Reduction per Participant (kW)	17.9	36.1	22.6	27.5
	Metal Halide - Pulse Start	Avg. Net Demand Reduction per Participant (kW)	8.8	17.7	11.1	13.5
Installed Winter peak kW	Metal Halide - Pulse Start	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Metal Halide - Pulse Start	Realization Rate	-	-	-	N/A
	Metal Halide - Pulse Start	Net-To-Gross Rate	-	-	-	N/A
	Metal Halide - Pulse Start	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Metal Halide - Pulse Start	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Metal Halide - Pulse Start	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Not Available	Total Participants	1			1
Installed kWh/year	Not Available	Total Gross Energy Savings (kWh/yr)	0			0
	Not Available	Realization Rate	N/A	N/A	N/A	N/A
	Not Available	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Not Available	Net Adjusted Savings (kWh/yr)	0			0
	Not Available	Avg. Gross Savings per Participant (kWh/yr)	0	N/A	N/A	0
	Not Available	Avg. Net Savings per Participant (kWh/yr)	0	N/A	N/A	0
Installed Summer peak kW	Not Available	Total Gross Demand Reduction (kW)	0.0			0.0
	Not Available	Realization Rate	N/A	N/A	N/A	N/A



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JUN 14 2024

VA - Commercial Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	Not Available	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	0.0			0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	0.0	N/A	N/A	0.0
	Not Available	Avg. Net Demand Reduction per Participant (kW)	0.0	N/A	N/A	0.0
Installed Winter peak kW	Not Available	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Not Available	Realization Rate	-	-	-	N/A
	Not Available	Net-To-Gross Rate	-	-	-	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Not Available	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Occupancy Sensors	Total Participants	47	57	25	129
Installed kWh/year	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	927,026	1,997,021	1,091,154	4,015,201
	Occupancy Sensors	Realization Rate	178%	178%	178%	178%
	Occupancy Sensors	Net-To-Gross Rate	50%	50%	50%	50%
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	826,336	1,774,484	970,942	3,571,761
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	19,724	35,035	43,646	31,126
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	17,582	31,131	38,838	27,688
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	223.5	451.9	265.1	940.6
	Occupancy Sensors	Realization Rate	98%	98%	98%	98%
	Occupancy Sensors	Net-To-Gross Rate	50%	50%	50%	50%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	109.5	221.4	129.9	460.9
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	4.8	7.9	10.6	7.3
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	2.3	3.9	5.2	3.6
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Occupancy Sensors	Realization Rate	-	-	-	N/A
	Occupancy Sensors	Net-To-Gross Rate	-	-	-	N/A
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Other Efficient Lighting Technologies	Total Participants	1	0	0	1
Installed kWh/year	Other Efficient Lighting Technologies	Total Gross Energy Savings (kWh/yr)	10,278	0	0	10,278
	Other Efficient Lighting Technologies	Realization Rate	179%	N/A	N/A	179%
	Other Efficient Lighting Technologies	Net-To-Gross Rate	50%	N/A	N/A	50%
	Other Efficient Lighting Technologies	Net Adjusted Savings (kWh/yr)	9,199	0	0	9,199
	Other Efficient Lighting Technologies	Avg. Gross Savings per Participant (kWh/yr)	10,278	N/A	N/A	10,278
	Other Efficient Lighting Technologies	Avg. Net Savings per Participant (kWh/yr)	9,199	N/A	N/A	9,199
Installed Summer peak kW	Other Efficient Lighting Technologies	Total Gross Demand Reduction (kW)	3.1	0.0	0.0	3.1
	Other Efficient Lighting Technologies	Realization Rate	98%	N/A	N/A	98%
	Other Efficient Lighting Technologies	Net-To-Gross Rate	50%	N/A	N/A	50%
	Other Efficient Lighting Technologies	Net Adjusted Demand Reduction (kW)	1.5	0.0	0.0	1.5
	Other Efficient Lighting Technologies	Avg. Gross Demand Reduction per Participant (kW)	3.1	N/A	N/A	3.1
	Other Efficient Lighting Technologies	Avg. Net Demand Reduction per Participant (kW)	1.5	N/A	N/A	1.5
Installed Winter peak kW	Other Efficient Lighting Technologies	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Other Efficient Lighting Technologies	Realization Rate	-	-	-	N/A
	Other Efficient Lighting Technologies	Net-To-Gross Rate	-	-	-	N/A
	Other Efficient Lighting Technologies	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Other Efficient Lighting Technologies	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Other Efficient Lighting Technologies	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	T5 With Electronic Ballast	Total Participants	6	43	22	71
Installed kWh/year	T5 With Electronic Ballast	Total Gross Energy Savings (kWh/yr)	906,570	4,983,247	2,282,919	8,172,735
	T5 With Electronic Ballast	Realization Rate	179%	177%	178%	178%
	T5 With Electronic Ballast	Net-To-Gross Rate	50%	50%	50%	50%



VA - Commercial Lighting Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	T5 With Electronic Ballast	Net Adjusted Savings (kWh/yr)	809,558	4,420,654	2,035,182	7,265,394
	T5 With Electronic Ballast	Avg. Gross Savings per Participant (kWh/yr)	151,095	115,889	103,769	115,109
	T5 With Electronic Ballast	Avg. Net Savings per Participant (kWh/yr)	134,926	102,806	92,508	102,329
Installed Summer peak kW	T5 With Electronic Ballast	Total Gross Demand Reduction (kW)	310.4	1,518.4	740.8	2,569.6
	T5 With Electronic Ballast	Realization Rate	98%	98%	98%	98%
	T5 With Electronic Ballast	Net-To-Gross Rate	50%	50%	50%	50%
	T5 With Electronic Ballast	Net Adjusted Demand Reduction (kW)	152.1	744.0	363.0	1,259.1
	T5 With Electronic Ballast	Avg. Gross Demand Reduction per Participant (kW)	51.7	35.3	33.7	36.2
	T5 With Electronic Ballast	Avg. Net Demand Reduction per Participant (kW)	25.4	17.3	16.5	17.7
Installed Winter peak kW	T5 With Electronic Ballast	Total Gross Demand Reduction (kW)	-	-	-	0.0
	T5 With Electronic Ballast	Realization Rate	-	-	-	N/A
	T5 With Electronic Ballast	Net-To-Gross Rate	-	-	-	N/A
	T5 With Electronic Ballast	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	T5 With Electronic Ballast	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	T5 With Electronic Ballast	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	T8 With Electronic Ballast	Total Participants	28	63	61	152
Installed kWh/year	T8 With Electronic Ballast	Total Gross Energy Savings (kWh/yr)	3,748,119	6,586,657	7,127,657	17,462,433
	T8 With Electronic Ballast	Realization Rate	178%	178%	178%	178%
	T8 With Electronic Ballast	Net-To-Gross Rate	50%	50%	50%	50%
	T8 With Electronic Ballast	Net Adjusted Savings (kWh/yr)	3,342,451	5,851,473	6,356,220	15,550,144
	T8 With Electronic Ballast	Avg. Gross Savings per Participant (kWh/yr)	133,861	104,550	116,847	114,884
	T8 With Electronic Ballast	Avg. Net Savings per Participant (kWh/yr)	119,373	92,881	104,200	102,304
Installed Summer peak kW	T8 With Electronic Ballast	Total Gross Demand Reduction (kW)	947.0	1,536.7	1,542.7	4,026.4
	T8 With Electronic Ballast	Realization Rate	98%	98%	98%	98%
	T8 With Electronic Ballast	Net-To-Gross Rate	50%	50%	50%	50%
	T8 With Electronic Ballast	Net Adjusted Demand Reduction (kW)	464.0	753.0	755.9	1,973.0
	T8 With Electronic Ballast	Avg. Gross Demand Reduction per Participant (kW)	33.8	24.4	25.3	26.5
	T8 With Electronic Ballast	Avg. Net Demand Reduction per Participant (kW)	16.6	12.0	12.4	13.0
Installed Winter peak kW	T8 With Electronic Ballast	Total Gross Demand Reduction (kW)	-	-	-	0.0
	T8 With Electronic Ballast	Realization Rate	-	-	-	N/A
	T8 With Electronic Ballast	Net-To-Gross Rate	-	-	-	N/A
	T8 With Electronic Ballast	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	T8 With Electronic Ballast	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	T8 With Electronic Ballast	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-

### J.59.3 2010-2012 Virginia Commercial Lighting Program (Phase I) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
1	Commercial Lighting	2009		PUE-2009-00081	4.48	3.98	3.61	0.93
1	Commercial Lighting	2011		PUE-2011-00093	N/A	N/A	N/A	N/A
1	Commercial Lighting	2012		PUE-2012-00100	N/A	N/A	N/A	N/A

1. Program closed July 31, 2012.
2. Realization rate is 177% January 1st through May 30th, 179% June 1st through September 30th, and 177% October 1st through December 31<sup>st</sup>.



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J.60 Virginia Commercial HVAC Program (Phase I) 2010–2012

J.60.1 2010-2012 Virginia Commercial HVAC Program (Phase I) Annual Indicator Tables

VA - Commercial HVAC Upgrade Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
O&M (\$)		Direct Rebate				
O&M (\$)		Direct Implementation				
O&M (\$)		Direct EM&V				
O&M (\$)		Indirect Other (Administrative)				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$396,225	\$1,375,897	\$641,660	\$2,413,782
Costs (\$)		Planned	\$355,499	\$1,149,943	\$1,719,050	\$3,224,492
Costs (\$)		Variance	\$40,726	\$225,954	-\$1,077,390	-\$810,710
		Annual % of Planned	111%	120%	37%	75%
Participants <sup>1</sup>		Total (Gross)	28	59	36	123
		Planned	36	199	44	279
		Variance	-8	-140	-8	-156
		Annual % of Planned (Gross)	78%	30%	82%	44%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	2,125,025	17,330,371	4,489,128	23,944,524
		Realization Rate Weighted by Measure	50%	58%	41%	54%
		Realization Rate Adjustment (kWh/yr)	-1,057,231	-7,280,687	-2,661,321	-10,999,238
		Realization Rate Adjusted Savings (kWh/yr)	1,067,795	10,049,685	1,827,807	12,945,286
		Net-To-Gross Rate Weighted by Measure	45%	45%	45%	45%
		Net-To-Gross Adjustment (kWh/yr)	-587,287	-5,527,326	-1,005,294	-7,119,907
		Net Adjusted Savings (kWh/yr)	480,508	4,522,358	822,513	5,825,379
		Planned Net Savings (kWh/yr)	993,361	5,481,166	1,209,473	7,684,000
		Annual % Toward Planned Net Savings	48.4%	82.5%	68.0%	75.8%
		Avg. Gross Savings per Participant (kWh/yr)	75,894	293,735	124,698	194,671
		Avg. Net Savings per Participant (kWh/yr)	17,161	76,650	22,848	47,361
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	280.8	1,628.8	567.6	2,477.2
		Realization Rate Weighted by Measure	97%	97%	97%	97%
		Realization Rate Adjustment (kW)	-8.4	-48.9	-17.0	-74.3
		Realization Rate Adjusted Gross Demand Reduction (kW)	272.4	1,579.9	550.6	2,402.9
		Net-To-Gross Rate Weighted by Measure	45%	45%	45%	45%
		Net-To-Gross Adjustment (kW)	-154.4	-895.8	-312.2	-1,362.4
		Net Adjusted Demand Reduction (kW)	122.6	711.0	247.8	1,081.3
		Planned Net Savings (kW)	401.0	2,210.0	488.0	3,099.0
		Annual % Toward Planned Net Reduction	30.6%	32.2%	50.8%	34.9%
		Avg. Gross Demand Reduction per Participant (kW)	10.0	27.6	15.8	20.1
		Avg. Net Demand Reduction per Participant (kW)	4.4	12.1	6.9	8.8
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$3,911	\$2,521	\$2,341	\$2,341
		\$Admin. per kWh/year (Gross)	\$0.05	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$390	\$115	\$116	\$116
		\$EM&V per \$Total	6.3%	16.1%	16.9%	16.9%
		\$Rebate per Participant (Gross)	\$5,120	\$9,293	\$8,883	\$8,883

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J.60.2 2010-2012 Virginia Commercial HVAC Program (Phase I)  
Measure Indicator Tables

VA - Commercial HVAC Upgrade Program			2010	2011	2012	2010-2012
Category	Measure	Indicator	Total	Total	Total	Total
	Not Available	Total Participants	28	59	36	123
Installed kWh/year	Not Available	Total Gross Energy Savings (kWh/yr)	2,125,025	17,330,371	4,489,128	23,944,524
	Not Available	Realization Rate	50%	58%	41%	54%
	Not Available	Net-To-Gross Rate	45%	45%	45%	45%
	Not Available	Net Adjusted Savings (kWh/yr)	480,508	4,522,358	822,513	5,825,379
	Not Available	Avg. Gross Savings per Participant (kWh/yr)	75,894	293,735	124,698	194,671
	Not Available	Avg. Net Savings per Participant (kWh/yr)	17,161	76,650	22,848	47,361
Installed Summer peak kW	Not Available	Total Gross Demand Reduction (kW)	280.8	1,628.8	567.6	2,477.2
	Not Available	Realization Rate	97%	97%	97%	97%
	Not Available	Net-To-Gross Rate	45%	45%	45%	45%
	Not Available	Net Adjusted Demand Reduction (kW)	122.6	711.0	247.8	1,081.3
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	10.0	27.6	15.8	20.1
	Not Available	Avg. Net Demand Reduction per Participant (kW)	4.4	12.1	6.9	8.8
Installed Winter peak kW	Not Available	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Not Available	Realization Rate	-	-	-	N/A
	Not Available	Net-To-Gross Rate	-	-	-	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Not Available	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-

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JUN 14 2024



J.60.3 2010-2012 Virginia Commercial HVAC Program (Phase I)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
1	Commercial HVAC Upgrade	2009		PUE-2009-00081	3.92	6.96	4.64	1.41
1	Commercial HVAC Upgrade	2011		PUE-2011-00093	N/A	N/A	N/A	N/A
1	Commercial HVAC Upgrade	2012		PUE-2012-00100	N/A	N/A	N/A	N/A

1. Program closed July 31, 2012.
2. Realization rate is 63% January 1st through May 30th, 35% June 1st through September 30th, and 63% October 1st through December 31<sup>st</sup>.



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**J.61 Virginia Non-Residential Duct Testing and Sealing Program (Phase II) 2012–2017**

**J.61.1 2012-2017 Virginia Non-Residential Duct Testing and Sealing Program (Phase II) Annual Indicator Tables**

VA - Non-Residential Duct Testing and Sealing Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$608,554	\$2,267,525	\$8,935,038	\$7,280,638	\$5,627,877	\$1,765,692	\$26,485,324
Costs (\$)		Planned	\$1,799,295	\$4,387,635	\$5,595,842	\$5,700,026	\$5,960,859	\$1,122,254	\$24,565,911
Costs (\$)		Variance	-\$1,190,740	-\$2,120,110	\$3,339,197	\$1,580,612	-\$332,983	\$643,437	\$1,919,413
		Annual % of Planned	34%	52%	160%	128%	94%	157%	108%
Participants <sup>1</sup>		Total (Gross)	11	357	1,700	1,655	640	81	4,444
		Planned	0	0	0	0	0	0	0
		Variance	11	357	1,700	1,655	640	81	4,444
		Annual % of Planned (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	77,742	1,760,597	28,475,447	20,488,106	26,352,640	4,251,334	81,405,866
		Realization Rate Weighted by Measure	87%	87%	87%	87%	87%	87%	87%
		Realization Rate Adjustment (kWh/yr)	-10,106	-228,878	-3,701,808	-2,663,454	-3,425,843	-552,673	-10,582,763
		Realization Rate Adjusted Savings (kWh/yr)	67,635	1,531,720	24,773,639	17,824,652	22,926,796	3,698,661	70,823,104
		Net-To-Gross Rate Weighted by Measure	97%	97%	97%	97%	97%	97%	97%
		Net-To-Gross Adjustment (kWh/yr)	-2,029	-45,952	-743,209	-534,740	-687,804	-110,960	-2,124,693
		Net Adjusted Savings (kWh/yr)	65,606	1,485,768	24,030,430	17,289,913	22,238,993	3,587,701	68,698,411
		Planned Net Savings (kWh/yr)	0	0	0	0	0	0	0
		Annual % Toward Planned Net Savings	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Savings per Participant (kWh/yr)	7,067	4,932	16,750	12,380	41,176	52,486	18,318
		Avg. Net Savings per Participant (kWh/yr)	5,964	4,162	14,136	10,447	34,748	44,293	15,459
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	8.0	504.0	2,056.8	2,510.3	2,594.2	695.2	8,368.5
		Realization Rate Weighted by Measure	94%	94%	94%	94%	94%	94%	94%
		Realization Rate Adjustment (kW)	-0.5	-30.2	-123.4	-150.6	-155.7	-41.7	-502.1
		Realization Rate Adjusted Gross Demand Reduction (kW)	7.5	473.8	1,933.3	2,359.6	2,438.5	653.5	7,866.4
		Net-To-Gross Rate Weighted by Measure	97%	97%	97%	97%	97%	97%	97%
		Net-To-Gross Adjustment (kW)	-0.2	-15.1	-61.7	-75.3	-77.8	-20.9	-251.1
		Net Adjusted Demand Reduction (kW)	7.3	459.6	1,875.3	2,288.9	2,365.4	633.9	7,630.4
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	0.7	1.4	1.2	1.5	4.1	8.6	1.9
		Avg. Net Demand Reduction per Participant (kW)	0.7	1.3	1.1	1.4	3.7	7.8	1.7
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$6,497	\$744	\$323	\$238	\$243	\$254	\$254
		\$Admin. per kWh/year (Gross)	\$1	\$0	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$8,904	\$535	\$260	\$175	\$138	\$135	\$135
		\$EM&V per \$Total	11.8%	4.7%	4.3%	3.1%	2.8%	2.9%	2.9%
		\$Rebate per Participant (Gross)	\$1,203	\$4,220	\$4,358	\$4,131	\$4,643	\$4,888	\$4,888

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J.61.2 2012-2017 Virginia Non-Residential Duct Testing and Sealing Program (Phase II)  
Measure Indicator Tables

VA - Non-Residential Duct Testing and Sealing Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Not Available	Total Participants	11	357	1,700	1,655	640	81	4,444
Installed kWh/year	Not Available	Total Gross Energy Savings (kWh/yr)	77,742	1,760,597	28,475,447	20,488,106	26,352,640	4,251,334	81,405,866
	Not Available	Realization Rate	87%	87%	87%	87%	87%	87%	87%
	Not Available	Net-To-Gross Rate	97%	97%	97%	97%	97%	97%	97%
	Not Available	Net Adjusted Savings (kWh/yr)	65,606	1,485,768	24,030,430	17,289,913	22,238,993	3,587,701	68,698,411
	Not Available	Avg. Gross Savings per Participant (kWh/yr)	7,067	4,932	16,750	12,380	41,176	52,486	18,318
	Not Available	Avg. Net Savings per Participant (kWh/yr)	5,964	4,162	14,136	10,447	34,748	44,293	15,459
Installed Summer peak kW	Not Available	Total Gross Demand Reduction (kW)	8.0	504.0	2,056.8	2,510.3	2,594.2	695.2	8,368.5
	Not Available	Realization Rate	94%	94%	94%	94%	94%	94%	94%
	Not Available	Net-To-Gross Rate	97%	97%	97%	97%	97%	97%	97%
	Not Available	Net Adjusted Demand Reduction (kW)	7.3	459.6	1,875.3	2,288.9	2,365.4	633.9	7,630.4
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	0.7	1.4	1.2	1.5	4.1	8.6	1.9
	Not Available	Avg. Net Demand Reduction per Participant (kW)	0.7	1.3	1.1	1.4	3.7	7.8	1.7
Installed Winter peak kW	Not Available	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Not Available	Realization Rate	-	-	-	-	-	-	N/A
	Not Available	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Not Available	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Not Available	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Not Available	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-



J.61.3 2012-2017 Virginia Non-Residential Duct Testing and Sealing Program (Phase II)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Non-Residential Duct Testing and Sealing	2011		PUE-2011-00093	3.05	3.43	3.12	1.03
2	Non-Residential Duct Testing and Sealing	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Non-Residential Duct Testing and Sealing	2013		PUE-2013-00072	3.27	3.02	2.72	0.85
2	Non-Residential Duct Testing and Sealing	2014		PUE-2014-00071	3.80	3.29	3.01	0.80
2	Non-Residential Duct Testing and Sealing	2015		PUE-2015-00089	3.34	2.48	2.43	0.72
2	Non-Residential Duct Testing and Sealing	2016		PUE-2016-00111	N/A	N/A	N/A	N/A

1. Program ended in 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated.
3. The 2016 total gross deemed savings values reported in this table differs from values in the May 1, 2017 EM&V report, and have been refiled with the Commission. An adjustment totaled -30,849,970 kWh/year and 0 kW for 2016 reported savings. The adjustments accounts for corrections to STEP Manual version 7.0.0 issued on May 1, 2017, in section 12. The adjustment was made to full load heating hours (FLHheat) in Tables 90 and 91 to be consistent with those in the Mid-Atlantic TRM v 6, in response to requests by the North Carolina Public Staff Utilities Commission Re: Docket No. E-22, Sub 545, on October 23, 2017. This affected multiple Non-Residential HVAC measures (e.g. heat pumps, variable refrigerant flow, mini split systems) that reference Table 90 and 91, in multiple Non-Residential programs. This adjustment is reflected in STEP Manual version 8.0.0 in this EM&V report.



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J.62 Virginia Non-Residential Energy Audit Program (Phase II) 2012–2017

J.62.1 2012-2017 Virginia Non-Residential Energy Audit Program (Phase II) Annual Indicator Tables

VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate							
O&M (\$)		Direct Implementation							
O&M (\$)		Direct EM&V							
O&M (\$)		Indirect Other (Administrative)							
Capital (\$)		Direct Implementation	\$0	\$0	\$2,077	\$700	\$700	\$0	\$5,477
Costs (\$)		Total	\$565,256	\$1,714,452	\$5,651,444	\$454,453	\$2,464,767	\$262,302	\$11,112,674
Costs (\$)		Planned	\$841,286	\$1,848,339	\$2,175,831	\$1,868,401	\$1,936,926	\$304,034	\$8,974,818
Costs (\$)		Variance	-\$276,030	-\$133,887	\$3,475,613	-\$1,413,948	\$527,840	-\$41,732	\$2,137,856
		Annual % of Planned	67%	93%	260%	24%	127%	86%	124%
Participants <sup>1</sup>		Total (Gross)	1	302	1,116	73	125	15	1,632
		Planned	0	0	0	0	0	0	0
		Variance	1	302	1,116	73	125	15	1,632
		Annual % of Planned (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	35,433	4,904,380	31,181,527	656,652	6,776,624	196,549	43,751,165
		Realization Rate Weighted by Measure	97%	72%	93%	97%	92%	86%	90%
		Realization Rate Adjustment (kWh/yr)	-893	-1,366,913	-2,264,735	-17,612	-51,556	-26,562	-4,188,271
		Realization Rate Adjusted Savings (kWh/yr)	34,540	3,537,467	28,916,792	639,041	6,265,069	169,986	39,562,894
		Net-To-Gross Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0
		Net Adjusted Savings (kWh/yr)	34,540	3,537,467	28,916,792	639,041	6,265,069	169,986	39,562,894
		Planned Net Savings (kWh/yr)	0	0	0	0	0	0	0
		Annual % Toward Planned Net Savings	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Savings per Participant (kWh/yr)	35,433	16,240	27,940	8,995	54,213	13,103	26,808
		Avg. Net Savings per Participant (kWh/yr)	34,540	11,713	25,911	8,754	50,121	11,332	24,242
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	10.0	1,018.2	2,042.0	7.8	765.2	24.5	3,867.8
		Realization Rate Weighted by Measure	97%	78%	83%	66%	92%	86%	84%
		Realization Rate Adjustment (kW)	-0.3	-222.0	-337.6	-2.7	-58.5	-3.5	-624.5
		Realization Rate Adjusted Gross Demand Reduction (kW)	9.8	796.2	1,704.4	5.2	706.7	21.0	3,243.2
		Net-To-Gross Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	9.8	796.2	1,704.4	5.2	706.7	21.0	3,243.2
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	10.0	3.4	1.8	0.1	6.1	1.6	2.4
		Avg. Net Demand Reduction per Participant (kW)	9.8	2.6	1.5	0.07	5.7	1.4	2.0
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$67,698	\$724	\$373	\$365	\$383	\$386	\$386
		\$Admin. per kWh/year (Gross)	\$2	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$6,737	\$213	\$172	\$177	\$161	\$163	\$163
		\$EM&V per \$Total	17.6%	8.0%	7.1%	7.8%	7.0%	7.8%	7.8%
		\$Rebate per Participant (Gross)	\$7,413	\$3,618	\$3,881	\$3,719	\$4,619	\$4,617	\$4,617

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J.62.2 2012-2017 Virginia Non-Residential Energy Audit Program (Phase II) Measure Indicator Tables

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VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Commercial Smart Strip Plug Outlet	Total Participants	0	20	0	0	0	0	20
Installed kWh/year	Commercial Smart Strip Plug Outlet	Total Gross Energy Savings (kWh/yr)	0	473	0	0	0	0	473
	Commercial Smart Strip Plug Outlet	Realization Rate	N/A	70%	N/A	N/A	N/A	N/A	70%
	Commercial Smart Strip Plug Outlet	Net-To-Gross Rate	N/A	100%	N/A	N/A	N/A	N/A	100%
	Commercial Smart Strip Plug Outlet	Net Adjusted Savings (kWh/yr)	0	331	0	0	0	0	331
	Commercial Smart Strip Plug Outlet	Avg. Gross Savings per Participant (kWh/yr)	N/A	24	N/A	N/A	N/A	N/A	24
	Commercial Smart Strip Plug Outlet	Avg. Net Savings per Participant (kWh/yr)	N/A	17	N/A	N/A	N/A	N/A	17
Installed Summer peak kW	Commercial Smart Strip Plug Outlet	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Smart Strip Plug Outlet	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Commercial Smart Strip Plug Outlet	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Commercial Smart Strip Plug Outlet	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commercial Smart Strip Plug Outlet	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	N/A	N/A	0.0
	Commercial Smart Strip Plug Outlet	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	N/A	N/A	0.0
Installed Winter peak kW	Commercial Smart Strip Plug Outlet	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Commercial Smart Strip Plug Outlet	Realization Rate	-	-	-	-	-	-	N/A
	Commercial Smart Strip Plug Outlet	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Commercial Smart Strip Plug Outlet	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Commercial Smart Strip Plug Outlet	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Commercial Smart Strip Plug Outlet	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Closer	Total Participants	0	104	559	22	161	8	854
Installed kWh/year	Door Closer	Total Gross Energy Savings (kWh/yr)	0	1,940	134,196	2,797	174,937	4,420	318,290
	Door Closer	Realization Rate	N/A	90%	90%	90%	90%	90%	90%
	Door Closer	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Door Closer	Net Adjusted Savings (kWh/yr)	0	1,741	120,454	2,511	157,023	3,967	285,697
	Door Closer	Avg. Gross Savings per Participant (kWh/yr)	N/A	19	240	127	1,087	553	373
	Door Closer	Avg. Net Savings per Participant (kWh/yr)	N/A	17	215	114	975	496	355
Installed Summer peak kW	Door Closer	Total Gross Demand Reduction (kW)	0.0	0.3	15.4	0.3	19.9	0.5	36.3
	Door Closer	Realization Rate	N/A	91%	91%	91%	91%	91%	91%
	Door Closer	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Door Closer	Net Adjusted Demand Reduction (kW)	0.0	0.3	14.0	0.3	18.1	0.5	33.2
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.03	0.01	0.1	0.06	0.04
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.03	0.01	0.1	0.06	0.04
Installed Winter peak kW	Door Closer	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Closer	Realization Rate	-	-	-	-	-	-	N/A
	Door Closer	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Door Closer	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Gasket	Total Participants	0	145	974	20	115	13	1,267
Installed kWh/year	Door Gasket	Total Gross Energy Savings (kWh/yr)	0	293,656	12,163,386	11,294	5,901,489	130,483	18,500,308
	Door Gasket	Realization Rate	N/A	99%	99%	99%	99%	99%	99%
	Door Gasket	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Door Gasket	Net Adjusted Savings (kWh/yr)	0	291,160	12,059,997	11,198	5,851,326	129,374	18,343,055
	Door Gasket	Avg. Gross Savings per Participant (kWh/yr)	N/A	2,025	12,488	565	51,317	10,037	14,602
	Door Gasket	Avg. Net Savings per Participant (kWh/yr)	N/A	2,008	12,382	560	50,881	9,952	14,478
Installed Summer peak kW	Door Gasket	Total Gross Demand Reduction (kW)	0.0	33.2	1,389.3	1.3	664.8	14.8	2,103.3
	Door Gasket	Realization Rate	N/A	99%	99%	99%	99%	99%	99%
	Door Gasket	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Door Gasket	Net Adjusted Demand Reduction (kW)	0.0	32.9	1,378.1	1.3	659.4	14.6	2,086.3
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	1.4	0.06	5.8	1.1	1.7
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	1.4	0.06	5.7	1.1	1.6
Installed Winter peak kW	Door Gasket	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0



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VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Door Gasket	Realization Rate	-	-	-	-	-	-	N/A
	Door Gasket	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Door Gasket	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Electronically Commutated Motor	Total Participants	0	34	44	28	9	2	117
Installed kWh/year	Electronically Commutated Motor	Total Gross Energy Savings (kWh/yr)	0	240,935	510,524	3,340	9,928	33,855	798,582
	Electronically Commutated Motor	Realization Rate	N/A	79%	79%	79%	79%	79%	79%
	Electronically Commutated Motor	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Electronically Commutated Motor	Net Adjusted Savings (kWh/yr)	0	189,471	401,476	2,626	7,807	26,624	628,005
	Electronically Commutated Motor	Avg. Gross Savings per Participant (kWh/yr)	N/A	7,086	11,603	119	1,103	16,928	6,825
	Electronically Commutated Motor	Avg. Net Savings per Participant (kWh/yr)	N/A	5,573	9,124	94	867	13,312	5,368
Installed Summer peak kW	Electronically Commutated Motor	Total Gross Demand Reduction (kW)	0.0	29.1	61.7	0.4	1.8	6.0	99.1
	Electronically Commutated Motor	Realization Rate	N/A	79%	79%	79%	79%	79%	79%
	Electronically Commutated Motor	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Electronically Commutated Motor	Net Adjusted Demand Reduction (kW)	0.0	22.9	48.5	0.3	1.4	4.8	77.9
	Electronically Commutated Motor	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.9	1.4	0.01	0.2	3.0	0.8
	Electronically Commutated Motor	Avg. Net Demand Reduction per Participant (kW)	N/A	0.7	1.1	0.01	0.2	2.4	0.7
Installed Winter peak kW	Electronically Commutated Motor	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Electronically Commutated Motor	Realization Rate	-	-	-	-	-	-	N/A
	Electronically Commutated Motor	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Electronically Commutated Motor	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Electronically Commutated Motor	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Electronically Commutated Motor	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Refrigeration Condenser Coil Clean	Total Participants	0	1	1	0	0	0	2
	Refrigeration Condenser Coil Clean	Total Gross Energy Savings (kWh/yr)	0	15,733	30,420	0	0	0	46,153
	Refrigeration Condenser Coil Clean	Realization Rate	N/A	99%	99%	N/A	N/A	N/A	99%
	Refrigeration Condenser Coil Clean	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Condenser Coil Clean	Net Adjusted Savings (kWh/yr)	0	15,599	30,161	0	0	0	45,761
	Refrigeration Condenser Coil Clean	Avg. Gross Savings per Participant (kWh/yr)	N/A	15,733	30,420	N/A	N/A	N/A	23,077
	Refrigeration Condenser Coil Clean	Avg. Net Savings per Participant (kWh/yr)	N/A	15,599	30,161	N/A	N/A	N/A	22,880
Installed Summer peak kW	Refrigeration Condenser Coil Clean	Total Gross Demand Reduction (kW)	0.0	0.8	1.6	0.0	0.0	0.0	2.4
	Refrigeration Condenser Coil Clean	Realization Rate	N/A	99%	99%	N/A	N/A	N/A	99%
	Refrigeration Condenser Coil Clean	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Condenser Coil Clean	Net Adjusted Demand Reduction (kW)	0.0	0.8	1.6	0.0	0.0	0.0	2.4
	Refrigeration Condenser Coil Clean	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.8	1.6	N/A	N/A	N/A	1.2
	Refrigeration Condenser Coil Clean	Avg. Net Demand Reduction per Participant (kW)	N/A	0.8	1.6	N/A	N/A	N/A	1.2
Installed Winter peak kW	Refrigeration Condenser Coil Clean	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Condenser Coil Clean	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration Condenser Coil Clean	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration Condenser Coil Clean	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Condenser Coil Clean	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Condenser Coil Clean	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Refrigeration LED Lighting	Total Participants	1	90	47	0	0	0	138
	Refrigeration LED Lighting	Total Gross Energy Savings (kWh/yr)	35,433	2,213,930	244,247	0	0	0	2,493,609
	Refrigeration LED Lighting	Realization Rate	97%	97%	97%	N/A	N/A	N/A	97%
	Refrigeration LED Lighting	Net-To-Gross Rate	100%	100%	100%	N/A	N/A	N/A	100%
	Refrigeration LED Lighting	Net Adjusted Savings (kWh/yr)	34,540	2,158,139	238,092	0	0	0	2,430,770
	Refrigeration LED Lighting	Avg. Gross Savings per Participant (kWh/yr)	35,433	24,599	5,197	N/A	N/A	N/A	18,070
	Refrigeration LED Lighting	Avg. Net Savings per Participant (kWh/yr)	34,540	23,979	5,066	N/A	N/A	N/A	17,614
Installed Summer peak kW	Refrigeration LED Lighting	Total Gross Demand Reduction (kW)	10.0	627.8	36.0	0.0	0.0	0.0	673.8
	Refrigeration LED Lighting	Realization Rate	97%	97%	97%	N/A	N/A	N/A	97%



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JUN 14 2024

VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Refrigeration LED Lighting	Net-To-Gross Rate	100%	100%	100%	N/A	N/A	N/A	100%
	Refrigeration LED Lighting	Net Adjusted Demand Reduction (kW)	9.8	611.9	35.1	0.0	0.0	0.0	656.8
	Refrigeration LED Lighting	Avg. Gross Demand Reduction per Participant (kW)	10.0	7.0	0.8	N/A	N/A	N/A	4.9
	Refrigeration LED Lighting	Avg. Net Demand Reduction per Participant (kW)	9.8	6.8	0.7	N/A	N/A	N/A	4.8
Installed Winter peak kW	Refrigeration LED Lighting	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration LED Lighting	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration LED Lighting	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration LED Lighting	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration LED Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration LED Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Occupancy Sensors	Total Participants	0	13	2	0	0	0	15
Installed kWh/year	Refrigeration Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	0	53,254	19,974	0	0	0	73,228
	Refrigeration Occupancy Sensors	Realization Rate	N/A	93%	93%	N/A	N/A	N/A	93%
	Refrigeration Occupancy Sensors	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Occupancy Sensors	Net Adjusted Savings (kWh/yr)	0	49,564	18,590	0	0	0	68,154
	Refrigeration Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	4,096	9,997	N/A	N/A	N/A	4,882
	Refrigeration Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	N/A	3,813	9,295	N/A	N/A	N/A	4,544
Installed Summer peak kW	Refrigeration Occupancy Sensors	Total Gross Demand Reduction (kW)	0.0	15.1	2.7	0.0	0.0	0.0	17.8
	Refrigeration Occupancy Sensors	Realization Rate	N/A	51%	51%	N/A	N/A	N/A	51%
	Refrigeration Occupancy Sensors	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Occupancy Sensors	Net Adjusted Demand Reduction (kW)	0.0	7.7	1.4	0.0	0.0	0.0	9.1
	Refrigeration Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.2	1.3	N/A	N/A	N/A	1.2
	Refrigeration Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	0.6	0.7	N/A	N/A	N/A	0.6
Installed Winter peak kW	Refrigeration Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Occupancy Sensors	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration Occupancy Sensors	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Total Participants	0	0	171	13	0	0	184
Installed kWh/year	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Total Gross Energy Savings (kWh/yr)	0	0	14,416,829	444,712	0	0	14,861,542
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	100%
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net-To-Gross Rate	N/A	N/A	100%	100%	N/A	N/A	100%
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net Adjusted Savings (kWh/yr)	0	0	14,416,829	444,712	0	0	14,861,542
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	84,309	34,209	N/A	N/A	80,769
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	84,309	34,209	N/A	N/A	80,769
Installed Summer peak kW	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0	N/A	N/A	0.0
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0	N/A	N/A	0.0
Installed Winter peak kW	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Unit Anti-Sweat Heat Controls And Door Heater Controls (Freezers and Coolers)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Unit Night Cover	Total Participants	0	0	0	1	0	0	1
Installed kWh/year	Refrigeration Unit Night Cover	Total Gross Energy Savings (kWh/yr)	0	0	0	152,178	0	0	152,178
	Refrigeration Unit Night Cover	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	100%
	Refrigeration Unit Night Cover	Net-To-Gross Rate	N/A	N/A	N/A	100%	N/A	N/A	100%



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Jun 14 2024

VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Refrigeration Unit Night Cover	Net Adjusted Savings (kWh/yr)	0	0	0	152,178	0	0	152,178
	Refrigeration Unit Night Cover	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	152,178	N/A	N/A	152,178
	Refrigeration Unit Night Cover	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	152,178	N/A	N/A	152,178
Installed Summer peak kW	Refrigeration Unit Night Cover	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigeration Unit Night Cover	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigeration Unit Night Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Refrigeration Unit Night Cover	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigeration Unit Night Cover	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	0.0
	Refrigeration Unit Night Cover	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	0.0
Installed Winter peak kW	Refrigeration Unit Night Cover	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Night Cover	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Night Cover	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Night Cover	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Night Cover	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Unit Night Cover	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Total Participants	0	1	1	0	0	0	2
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Total Gross Energy Savings (kWh/yr)	0	4,340	171	0	0	0	4,511
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Realization Rate	N/A	99%	99%	N/A	N/A	N/A	99%
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net Adjusted Savings (kWh/yr)	0	4,303	170	0	0	0	4,473
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Gross Savings per Participant (kWh/yr)	N/A	4,340	171	N/A	N/A	N/A	2,256
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Net Savings per Participant (kWh/yr)	N/A	4,303	170	N/A	N/A	N/A	2,236
Installed Summer peak kW	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Total Gross Demand Reduction (kW)	0.0	0.7	0.0	0.0	0.0	0.0	0.7
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Realization Rate	N/A	99%	99%	N/A	N/A	N/A	99%
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net Adjusted Demand Reduction (kW)	0.0	0.7	0.0	0.0	0.0	0.0	0.7
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.7	0.03	N/A	N/A	N/A	0.4
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.7	0.03	N/A	N/A	N/A	0.4
Installed Winter peak kW	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Realization Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Refrigeration Unit Suction Pipe Insulation (Freezers and Coolers)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
Installed kWh/year	Strip Curtain	Total Participants	0	155	678	31	112	12	988
	Strip Curtain	Total Gross Energy Savings (kWh/yr)	0	1,936,605	3,083,410	25,830	690,270	27,790	5,763,905
	Strip Curtain	Realization Rate	N/A	36%	36%	36%	36%	36%	36%
	Strip Curtain	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Strip Curtain	Net Adjusted Savings (kWh/yr)	0	698,340	1,111,878	9,314	248,911	10,021	2,078,464
	Strip Curtain	Avg. Gross Savings per Participant (kWh/yr)	N/A	12,494	4,548	833	6,163	2,316	5,834
	Strip Curtain	Avg. Net Savings per Participant (kWh/yr)	N/A	4,505	1,640	300	2,222	835	2,104
Installed Summer peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	0.0	294.8	469.3	3.9	78.8	3.2	850.0
	Strip Curtain	Realization Rate	N/A	35%	35%	35%	35%	35%	35%
	Strip Curtain	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%	100%
	Strip Curtain	Net Adjusted Demand Reduction (kW)	0.0	104.0	165.5	1.4	27.8	1.1	299.8
	Strip Curtain	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.9	0.7	0.1	0.7	0.3	0.9
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	N/A	0.7	0.2	0.04	0.2	0.09	0.3
Installed Winter peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Strip Curtain	Realization Rate	-	-	-	-	-	-	N/A
	Strip Curtain	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Strip Curtain	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Strip Curtain	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-



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VA - Non-Residential Energy Audit Program			2012	2013	2014	2015	2016	2017	2012-2017
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Vending Machine Controller (Cold Drink)	Total Participants	0	0	0	1	0	0	1
Installed kWh/year	Vending Machine Controller (Cold Drink)	Total Gross Energy Savings (kWh/yr)	0	0	0	16,501	0	0	16,501
	Vending Machine Controller (Cold Drink)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	100%
	Vending Machine Controller (Cold Drink)	Net-To-Gross Rate	N/A	N/A	N/A	100%	N/A	N/A	100%
	Vending Machine Controller (Cold Drink)	Net Adjusted Savings (kWh/yr)	0	0	0	16,501	0	0	16,501
	Vending Machine Controller (Cold Drink)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	16,501	N/A	N/A	16,501
	Vending Machine Controller (Cold Drink)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	16,501	N/A	N/A	16,501
Installed Summer peak kW	Vending Machine Controller (Cold Drink)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	1.9	0.0	0.0	1.9
	Vending Machine Controller (Cold Drink)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	100%
	Vending Machine Controller (Cold Drink)	Net-To-Gross Rate	N/A	N/A	N/A	100%	N/A	N/A	100%
	Vending Machine Controller (Cold Drink)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1.9	0.0	0.0	1.9
	Vending Machine Controller (Cold Drink)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	1.9	N/A	N/A	1.9
	Vending Machine Controller (Cold Drink)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	1.9	N/A	N/A	1.9
Installed Winter peak kW	Vending Machine Controller (Cold Drink)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Vending Machine Controller (Cold Drink)	Realization Rate	-	-	-	-	-	-	N/A
	Vending Machine Controller (Cold Drink)	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Vending Machine Controller (Cold Drink)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Vending Machine Controller (Cold Drink)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Vending Machine Controller (Cold Drink)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Zero-Heat Reach-In Glass Doors	Total Participants	0	1	45	0	0	0	46
Installed kWh/year	Zero-Heat Reach-In Glass Doors	Total Gross Energy Savings (kWh/yr)	0	143,515	578,370	0	0	0	721,885
	Zero-Heat Reach-In Glass Doors	Realization Rate	N/A	90%	90%	N/A	N/A	N/A	90%
	Zero-Heat Reach-In Glass Doors	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Zero-Heat Reach-In Glass Doors	Net Adjusted Savings (kWh/yr)	0	128,819	519,145	0	0	0	647,964
	Zero-Heat Reach-In Glass Doors	Avg. Gross Savings per Participant (kWh/yr)	N/A	143,515	12,853	N/A	N/A	N/A	15,693
	Zero-Heat Reach-In Glass Doors	Avg. Net Savings per Participant (kWh/yr)	N/A	128,819	11,537	N/A	N/A	N/A	14,086
Installed Summer peak kW	Zero-Heat Reach-In Glass Doors	Total Gross Demand Reduction (kW)	0.0	16.4	66.0	0.0	0.0	0.0	82.4
	Zero-Heat Reach-In Glass Doors	Realization Rate	N/A	91%	91%	N/A	N/A	N/A	91%
	Zero-Heat Reach-In Glass Doors	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	N/A	100%
	Zero-Heat Reach-In Glass Doors	Net Adjusted Demand Reduction (kW)	0.0	14.9	60.2	0.0	0.0	0.0	75.2
	Zero-Heat Reach-In Glass Doors	Avg. Gross Demand Reduction per Participant (kW)	N/A	16.4	1.5	N/A	N/A	N/A	1.8
	Zero-Heat Reach-In Glass Doors	Avg. Net Demand Reduction per Participant (kW)	N/A	14.9	1.3	N/A	N/A	N/A	1.6
Installed Winter peak kW	Zero-Heat Reach-In Glass Doors	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Zero-Heat Reach-In Glass Doors	Realization Rate	-	-	-	-	-	-	N/A
	Zero-Heat Reach-In Glass Doors	Net-To-Gross Rate	-	-	-	-	-	-	N/A
	Zero-Heat Reach-In Glass Doors	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.0
	Zero-Heat Reach-In Glass Doors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-
	Zero-Heat Reach-In Glass Doors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-





J.62.3 2012-2017 Virginia Non-Residential Energy Audit Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Non-Residential Energy Audit	2011		PUE-2011-00093	5.06	4.42	4.25	1.03
2	Non-Residential Energy Audit	2012		PUE-2012-00100	N/A	N/A	N/A	N/A
2	Non-Residential Energy Audit	2013		PUE-2013-00072	4.97	4.11	2.99	0.83
2	Non-Residential Energy Audit	2014		PUE-2014-00071	5.81	4.08	3.80	0.77
2	Non-Residential Energy Audit	2015		PUE-2015-00089	6.26	5.76	4.27	0.77
2	Non-Residential Energy Audit	2016		PUE-2016-00111	N/A	N/A	N/A	N/A

1. Program closed end of 2017.
2. A participant is a single unit that has been installed and rebated. A unique account number may represent multiple participants if that account had multiple units installed and rebated.



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**J.63 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase III) 2014–2020**

**J.63.1 2014-2020 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase III) Annual Indicator Tables**

VA - Non-Residential Heating and Cooling Efficiency Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate								
O&M (\$)		Direct Implementation								
O&M (\$)		Direct EM&V								
O&M (\$)		Indirect Other (Administrative)								
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$460,689	\$1,347,317	\$1,352,118	\$1,756,467	\$1,745,485	\$645,966	\$47,468	\$7,355,509
Costs (\$)		Planned	\$1,530,331	\$1,859,694	\$1,807,707	\$1,858,262	\$1,977,851	\$100,294	\$0	\$9,134,139
Costs (\$)		Variance	-\$1,069,642	-\$512,377	-\$455,589	-\$101,796	-\$232,365	\$545,672	\$47,468	-\$1,778,630
		Annual % of Planned	30%	72%	75%	95%	88%	644%	N/A	81%
Participants <sup>1</sup>		Total (Gross)	6	114	89	103	77	17	0	406
		Planned	261	746	782	797	807	0	0	3,393
		Variance	-255	-632	-693	-694	-730	17	0	-2,987
		Annual % of Planned (Gross)	2%	15%	11%	13%	10%	N/A	N/A	12%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	1,456,991	11,129,837	13,647,306	7,526,876	9,818,796	3,328,123	0	46,907,929
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	1,456,991	11,129,837	13,647,306	7,526,876	9,818,796	3,328,123	0	46,907,929
		Net-To-Gross Rate Weighted by Measure	70%	70%	70%	70%	70%	70%	N/A	70%
		Net-To-Gross Adjustment (kWh/yr)	-437,087	-3,338,951	-4,094,182	-2,258,063	-2,945,639	-998,437	0	-14,072,379
		Net Adjusted Savings (kWh/yr)	1,019,894	7,790,886	9,553,114	5,268,813	6,873,157	2,329,686	0	32,835,550
		Planned Net Savings (kWh/yr)	3,299,301	9,430,186	24,119,219	38,355,947	31,003,178	0	0	106,207,830
		Annual % Toward Planned Net Savings	30.9%	82.6%	39.6%	13.7%	22.2%	N/A	N/A	30.9%
		Avg. Gross Savings per Participant (kWh/yr)	242,832	97,630	153,341	73,076	127,517	195,772	N/A	115,537
		Avg. Net Savings per Participant (kWh/yr)	169,982	68,341	107,338	51,154	89,262	137,040	N/A	80,876
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	510.1	2,777.0	2,084.3	1,946.7	568.8	198.8	0.0	8,085.6
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	510.1	2,777.0	2,084.3	1,946.7	568.8	198.8	0.0	8,085.6
		Net-To-Gross Rate Weighted by Measure	70%	70%	70%	70%	70%	70%	N/A	70%
		Net-To-Gross Adjustment (kW)	-153.0	-833.1	-625.3	-584.0	-170.6	-59.6	0.0	-2,425.7
		Net Adjusted Demand Reduction (kW)	357.1	1,943.9	1,459.0	1,362.7	398.1	139.2	0.0	5,660.0
		Planned Net Savings (kW)	835.2	2,387.2	4,089.6	15,592.6	7,536.0	0.0	0.0	30,440.6
		Annual % Toward Planned Net Reduction	42.8%	81.4%	35.7%	8.74%	5.28%	N/A	N/A	18.6%
		Avg. Gross Demand Reduction per Participant (kW)	85.0	24.4	23.4	18.9	7.4	11.7	N/A	19.9
		Avg. Net Demand Reduction per Participant (kW)	59.5	17.1	16.4	13.2	5.2	8.2	N/A	13.9
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$2,378	\$444	\$451	\$524	\$674	\$739	\$746	\$746
		\$Admin. per kWh/year (Gross)	\$0.01	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$28	\$16	\$18	\$22	\$33	\$37	\$37	\$37
		\$EM&V per \$Total	5.6%	6.0%	7.1%	7.3%	7.3%	7.6%	8.2%	8.2%
		\$Rebate per Participant (Gross)	\$19,834	\$8,505	\$9,452	\$10,171	\$11,138	\$11,711	\$11,711	\$11,711

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J.63.2 2014-2020 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase III) Measure Indicator Tables

VA - Non-Residential Heating and Cooling Efficiency Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Chiller Upgrade	Total Participants	2	12	23	14	13	1	0	65
Installed kWh/year	Chiller Upgrade	Total Gross Energy Savings (kWh/yr)	1,453,775	2,677,624	2,848,519	1,984,465	823,410	86,480	0	9,874,272
	Chiller Upgrade	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Chiller Upgrade	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Chiller Upgrade	Net Adjusted Savings (kWh/yr)	1,017,642	1,874,337	1,893,963	1,389,125	576,387	60,536	0	6,911,990
	Chiller Upgrade	Avg. Gross Savings per Participant (kWh/yr)	726,887	223,135	123,849	141,747	63,339	86,480	N/A	151,912
	Chiller Upgrade	Avg. Net Savings per Participant (kWh/yr)	508,821	156,195	86,694	99,223	44,337	60,536	N/A	106,338
Installed Summer peak kW	Chiller Upgrade	Total Gross Demand Reduction (kW)	510.0	1,281.6	1,244.4	1,346.6	133.2	25.2	0.0	4,541.1
	Chiller Upgrade	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Chiller Upgrade	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Chiller Upgrade	Net Adjusted Demand Reduction (kW)	357.0	897.1	871.1	942.6	93.2	17.7	0.0	3,178.7
	Chiller Upgrade	Avg. Gross Demand Reduction per Participant (kW)	255.0	106.8	54.1	96.2	10.2	25.2	N/A	69.9
	Chiller Upgrade	Avg. Net Demand Reduction per Participant (kW)	178.5	74.8	37.9	67.3	7.2	17.7	N/A	48.9
Installed Winter peak kW	Chiller Upgrade	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Chiller Upgrade	Realization Rate	-	-	-	-	-	-	-	N/A
	Chiller Upgrade	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Chiller Upgrade	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Chiller Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Chiller Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Economizers	Economizers	Total Participants	1	3	21	46	23	5	0	99
	Economizers	Total Gross Energy Savings (kWh/yr)	600	29,415	591,788	107,955	130,348	12,740	0	872,846
	Economizers	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Economizers	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Economizers	Net Adjusted Savings (kWh/yr)	420	20,591	414,251	75,569	91,244	8,918	0	610,992
	Economizers	Avg. Gross Savings per Participant (kWh/yr)	600	9,805	28,180	2,347	5,667	2,548	N/A	8,817
Installed Summer peak kW	Economizers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Economizers	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Economizers	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Economizers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0
	Economizers	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0
Installed Winter peak kW	Economizers	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Economizers	Realization Rate	-	-	-	-	-	-	-	N/A
	Economizers	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Economizers	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Economizers	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Heat Pump Upgrade	Heat Pump Upgrade	Total Participants	0	66	13	46	12	5	0	142
	Heat Pump Upgrade	Total Gross Energy Savings (kWh/yr)	0	517,395	99,527	390,790	37,218	3,420	0	1,048,350
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%	N/A	70%
	Heat Pump Upgrade	Net Adjusted Savings (kWh/yr)	0	362,176	69,669	273,553	26,053	2,394	0	733,845
	Heat Pump Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	7,839	7,656	8,495	3,102	684	N/A	7,383
Installed Summer peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	0.0	553.5	22.9	42.6	14.0	-0.2	0.0	632.7
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%	N/A	70%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	0.0	387.4	16.0	29.8	9.8	-0.2	0.0	442.9
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	8.4	1.8	0.9	1.2	-0.05	N/A	4.5
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	5.9	1.2	0.6	0.8	-0.03	N/A	3.1
Installed Winter peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0

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VA - Non-Residential Heating and Cooling Efficiency Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Heat Pump Upgrade	Realization Rate	-	-	-	-	-	-	-	N/A
	Heat Pump Upgrade	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Mini Split	Total Participants	0	0	13	1	8	2	0	24
Installed kWh/year	Mini Split	Total Gross Energy Savings (kWh/yr)	0	0	36,811	346	148,441	646	0	186,243
	Mini Split	Realization Rate	N/A	N/A	100%	100%	100%	100%	N/A	100%
	Mini Split	Net-To-Gross Rate	N/A	N/A	70%	70%	70%	70%	N/A	70%
	Mini Split	Net Adjusted Savings (kWh/yr)	0	0	25,768	242	103,909	452	0	130,370
	Mini Split	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	2,832	346	18,555	323	N/A	7,760
	Mini Split	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,982	242	12,989	226	N/A	5,432
Installed Summer peak kW	Mini Split	Total Gross Demand Reduction (kW)	0.0	0.0	14.6	0.1	4.4	0.2	0.0	19.3
	Mini Split	Realization Rate	N/A	N/A	100%	100%	100%	100%	N/A	100%
	Mini Split	Net-To-Gross Rate	N/A	N/A	70%	70%	70%	70%	N/A	70%
	Mini Split	Net Adjusted Demand Reduction (kW)	0.0	0.0	10.2	0.0	3.1	0.2	0.0	13.5
	Mini Split	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.1	0.07	0.5	0.1	N/A	0.8
	Mini Split	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.8	0.05	0.4	0.08	N/A	0.6
Installed Winter peak kW	Mini Split	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Mini Split	Realization Rate	-	-	-	-	-	-	-	N/A
	Mini Split	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Mini Split	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Mini Split	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Mini Split	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Unitary AC	Total Participants	1	6	6	9	2	6	0	30
Installed kWh/year	Unitary AC	Total Gross Energy Savings (kWh/yr)	13	277,236	371,865	115,255	3,684	29,044	0	797,097
	Unitary AC	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Unitary AC	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Unitary AC	Net Adjusted Savings (kWh/yr)	9	194,065	260,305	80,679	2,579	20,331	0	557,968
	Unitary AC	Avg. Gross Savings per Participant (kWh/yr)	13	46,206	61,977	12,806	1,842	4,841	N/A	26,570
	Unitary AC	Avg. Net Savings per Participant (kWh/yr)	9	32,344	43,384	8,964	1,289	3,389	N/A	18,599
Installed Summer peak kW	Unitary AC	Total Gross Demand Reduction (kW)	0.0	170.6	323.7	36.9	2.8	18.4	0.0	552.3
	Unitary AC	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Unitary AC	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Unitary AC	Net Adjusted Demand Reduction (kW)	0.0	119.4	226.6	25.8	1.9	12.9	0.0	386.6
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	0.01	28.4	54.0	4.1	1.4	3.1	N/A	18.4
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	0.00	19.9	37.8	2.9	1.0	2.1	N/A	12.9
Installed Winter peak kW	Unitary AC	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Unitary AC	Realization Rate	-	-	-	-	-	-	-	N/A
	Unitary AC	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Unitary AC	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Variable Frequency Drives (VFD)	Total Participants	3	41	53	65	54	8	0	224
Installed kWh/year	Variable Frequency Drives (VFD)	Total Gross Energy Savings (kWh/yr)	2,604	7,481,786	9,475,129	4,902,892	8,093,328	3,176,521	0	33,132,258
	Variable Frequency Drives (VFD)	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Variable Frequency Drives (VFD)	Net Adjusted Savings (kWh/yr)	1,823	5,237,250	6,632,590	3,432,024	5,665,330	2,223,564	0	23,192,581
	Variable Frequency Drives (VFD)	Avg. Gross Savings per Participant (kWh/yr)	868	182,483	178,776	75,429	149,876	397,065	N/A	147,912
	Variable Frequency Drives (VFD)	Avg. Net Savings per Participant (kWh/yr)	608	127,738	125,143	52,800	104,914	277,946	N/A	103,538
Installed Summer peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	0.1	744.1	432.6	519.8	482.4	153.7	0.0	2,332.6
	Variable Frequency Drives (VFD)	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%



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VA - Non-Residential Heating and Cooling Efficiency Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	70%
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	0.1	520.8	302.8	363.8	337.7	107.6	0.0	1,632.8
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	0.04	18.1	8.2	8.0	8.9	19.2	N/A	10.4
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	0.02	12.7	5.7	5.6	6.3	13.4	N/A	7.3
Installed Winter peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Variable Frequency Drives (VFD)	Realization Rate	-	-	-	-	-	-	-	N/A
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Variable Refrigerant Flow	Total Participants	0	1	4	2	8	0	0	15
Installed kWh/year	Variable Refrigerant Flow	Total Gross Energy Savings (kWh/yr)	0	146,382	223,668	25,174	582,366	19,272	0	996,863
	Variable Refrigerant Flow	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	100%
	Variable Refrigerant Flow	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%	N/A	70%
	Variable Refrigerant Flow	Net Adjusted Savings (kWh/yr)	0	102,467	156,568	17,622	407,656	13,491	0	697,804
	Variable Refrigerant Flow	Avg. Gross Savings per Participant (kWh/yr)	N/A	146,382	55,917	12,587	72,796	N/A	N/A	66,458
	Variable Refrigerant Flow	Avg. Net Savings per Participant (kWh/yr)	N/A	102,467	39,142	8,811	50,957	N/A	N/A	46,520
Installed Summer peak kW	Variable Refrigerant Flow	Total Gross Demand Reduction (kW)	0.0	27.2	46.0	0.8	-68.0	1.5	0.0	7.6
	Variable Refrigerant Flow	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	100%
	Variable Refrigerant Flow	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%	N/A	70%
	Variable Refrigerant Flow	Net Adjusted Demand Reduction (kW)	0.0	19.1	32.2	0.6	-47.6	1.1	0.0	5.3
	Variable Refrigerant Flow	Avg. Gross Demand Reduction per Participant (kW)	N/A	27.2	11.5	0.4	-8.50	N/A	N/A	0.5
	Variable Refrigerant Flow	Avg. Net Demand Reduction per Participant (kW)	N/A	19.1	8.1	0.3	-5.95	N/A	N/A	0.4
Installed Winter peak kW	Variable Refrigerant Flow	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Variable Refrigerant Flow	Realization Rate	-	-	-	-	-	-	-	N/A
	Variable Refrigerant Flow	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Variable Refrigerant Flow	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Variable Refrigerant Flow	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Variable Refrigerant Flow	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-



J.63.3 2014-2020 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase III) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
3	Non-Residential Heating and Cooling Efficiency	2013		PUE-2013-00072	2.33	2.36	1.69	0.82
3	Non-Residential Heating and Cooling Efficiency	2014		PUE-2014-00071	N/A	N/A	N/A	N/A
3	Non-Residential Heating and Cooling Efficiency	2015		PUE-2015-00089	2.53	5.01	3.28	1.33
3	Non-Residential Heating and Cooling Efficiency	2016		PUE-2016-00111	12.65	19.29	12.55	1.09
3	Non-Residential Heating and Cooling Efficiency	2018		PUR-2018-00168	N/A	N/A	N/A	N/A
3	Non-Residential Heating and Cooling Efficiency	2019		PUR-2019-00201	N/A	N/A	N/A	N/A

1. Program closed end of 2019.
2. A participant is a unique account number.
3. The 2016 total gross deemed savings values reported in this table differs from values in the May 1, 2017 EM&V report, and have been refiled with the Commission. The adjustments totalled -154,576 kWh/year and 0 kW for 2016 reported savings. The adjustments accounts for corrections to STEP Manual version 7.0.0 issued on May 1, 2017, in section 10. The adjustment was made to full load heating hours (FLHheat) in Tables 90 and 91 to be consistent with those in the Mid-Atlantic TRM v 6, in response to requests by the North Carolina Public Staff Utilities Commission Re: Docket No. E-22, Sub 545, on October 23, 2017. This affected multiple Non-Residential HVAC measures (e.g. heat pumps, variable refrigerant flow, mini split systems) that reference Table 90 and 91, in multiple Non-Residential programs. This adjustment is reflected in STEP Manual version 8.0.0 in this EM&V report.



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**J.64 Virginia Non-Residential Lighting Systems & Controls Program (Phase III) 2014-2023**

**J.64.1 2014-2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase III) Annual Indicator Tables**

VA - Non-Residential Lighting Systems & Controls Program			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2014-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate											
O&M (\$)		Direct Implementation											
O&M (\$)		Direct EM&V											
O&M (\$)		Indirect Other (Administrative)											
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$1,295,925	\$6,608,836	\$7,070,615	\$8,931,669	\$6,229,352	\$4,806,213	\$36,137	\$0	\$42,686	\$274,691	\$35,296,123
Costs (\$)		Planned	\$3,048,223	\$5,355,067	\$5,349,167	\$5,268,411	\$6,289,779	\$100,294	\$0	\$0	\$0	\$0	\$25,410,941
Costs (\$)		Variance	-\$1,752,298	\$1,253,769	\$1,721,448	\$3,663,258	-\$60,427	\$4,705,918	\$36,137	\$0	\$42,686	\$274,691	\$9,885,182
		Annual % of Planned	43%	123%	132%	170%	99%	4792%	N/A	N/A	N/A	N/A	139%
Participants <sup>1</sup>		Total (Gross)	118	1,241	1,203	868	649	422	0	0	0	0	4,501
		Planned	688	1,504	1,530	1,553	1,807	0	0	0	0	0	7,082
		Variance	-570	-263	-327	-685	-1,158	422	0	0	0	0	-2,581
		Annual % of Planned (Gross)	17%	83%	79%	56%	36%	N/A	N/A	N/A	N/A	N/A	84%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	4,749,693	50,828,062	65,876,985	71,024,607	45,157,541	41,988,907	0	0	0	0	279,625,795
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	4,749,693	50,828,062	65,876,985	71,024,607	45,157,541	41,988,907	0	0	0	0	279,625,795
		Net-To-Gross Rate Weighted by Measure	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
		Net-To-Gross Adjustment (kWh/yr)	-1,424,908	-15,248,419	-19,763,096	-21,307,382	-13,547,262	-12,596,672	0	0	0	0	-83,887,739
		Net Adjusted Savings (kWh/yr)	3,324,785	35,579,643	46,113,890	49,717,225	31,610,279	29,392,235	0	0	0	0	195,738,057
		Planned Net Savings (kWh/yr)	12,317,239	27,461,536	24,103,472	33,214,031	40,368,376	0	0	0	0	0	137,464,654
		Annual % Toward Planned Net Savings	27.0%	129.6%	191.3%	149.7%	78.3%	N/A	N/A	N/A	N/A	N/A	142.4%
		Avg. Gross Savings per Participant (kWh/yr)	40,252	40,957	54,761	81,826	69,580	99,500	N/A	N/A	N/A	N/A	62,125
		Avg. Net Savings per Participant (kWh/yr)	28,176	28,670	38,332	57,278	48,706	69,650	N/A	N/A	N/A	N/A	43,488
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	998.5	10,674.2	15,380.0	11,958.2	7,222.3	5,637.5	0.0	0.0	0.0	0.0	51,870.7
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	998.5	10,674.2	15,380.0	11,958.2	7,222.3	5,637.5	0.0	0.0	0.0	0.0	51,870.7
		Net-To-Gross Rate Weighted by Measure	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
		Net-To-Gross Adjustment (kW)	-299.5	-3,202.3	-4,614.0	-3,587.6	-2,166.7	-1,691.3	0.0	0.0	0.0	0.0	-15,581.2
		Net Adjusted Demand Reduction (kW)	698.9	7,472.0	10,766.0	8,370.6	5,055.6	3,946.3	0.0	0.0	0.0	0.0	36,309.5
		Planned Net Savings (kW)	3,228.9	7,670.4	4,086.7	5,486.3	7,269.0	0.0	0.0	0.0	0.0	0.0	27,741.3
		Annual % Toward Planned Net Reduction	21.6%	97.4%	263.4%	152.6%	69.6%	N/A	N/A	N/A	N/A	N/A	130.9%
		Avg. Gross Demand Reduction per Participant (kW)	8.5	8.6	12.8	13.8	11.1	13.4	N/A	N/A	N/A	N/A	11.5
		Avg. Net Demand Reduction per Participant (kW)	5.9	6.0	8.9	9.6	7.8	9.4	N/A	N/A	N/A	N/A	8.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$332	\$169	\$174	\$232	\$282	\$319	\$320	\$320	\$320	\$324	\$324
		\$Admin. per kWh/year (Gross)	\$0.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$39	\$20	\$16	\$20	\$25	\$28	\$28	\$28	\$28	\$28	\$28
		\$EM&V per \$Total	5.1%	2.3%	1.9%	1.6%	1.6%	1.6%	1.7%	1.7%	1.8%	2.5%	2.5%
		\$Rebate per Participant (Gross)	\$4,355	\$4,476	\$4,734	\$5,744	\$6,050	\$6,410	\$6,410	\$6,410	\$6,410	\$6,410	\$6,410

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J.64.2 2014-2022 Virginia Non-Residential Lighting Systems & Controls Program (Phase III) Measure Indicator Tables

VA - Non-Residential Lighting Systems & Controls Program			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2014-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
	CFL	Total Participants	0	19	2	1	0	1	0	0	0	0	23
Installed kWh/year	CFL	Total Gross Energy Savings (kWh/yr)	0	80,058	385,960	2,636	0	1,087	0	0	0	0	469,741
	CFL	Realization Rate	N/A	100%	100%	100%	N/A	100%	N/A	N/A	N/A	N/A	100%
	CFL	Net-To-Gross Rate	N/A	70%	70%	70%	N/A	70%	N/A	N/A	N/A	N/A	70%
	CFL	Net Adjusted Savings (kWh/yr)	0	56,040	270,172	1,845	0	761	0	0	0	0	328,819
	CFL	Avg. Gross Savings per Participant (kWh/yr)	N/A	4,214	192,980	2,636	N/A	1,087	N/A	N/A	N/A	N/A	20,424
	CFL	Avg. Net Savings per Participant (kWh/yr)	N/A	2,949	135,086	1,845	N/A	761	N/A	N/A	N/A	N/A	14,296
Installed Summer peak kW	CFL	Total Gross Demand Reduction (kW)	0.0	16.0	114.1	0.8	0.0	0.2	0.0	0.0	0.0	0.0	131.1
	CFL	Realization Rate	N/A	100%	100%	100%	N/A	100%	N/A	N/A	N/A	N/A	100%
	CFL	Net-To-Gross Rate	N/A	70%	70%	70%	N/A	70%	N/A	N/A	N/A	N/A	70%
	CFL	Net Adjusted Demand Reduction (kW)	0.0	11.2	79.9	0.5	0.0	0.2	0.0	0.0	0.0	0.0	91.8
	CFL	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.8	57.0	0.8	N/A	0.2	N/A	N/A	N/A	N/A	5.7
	CFL	Avg. Net Demand Reduction per Participant (kW)	N/A	0.6	39.9	0.5	N/A	0.2	N/A	N/A	N/A	N/A	4.0
Installed Winter peak kW	CFL	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	CFL	Realization Rate	-	-	-	-	-	-	-	-	-	-	N/A
	CFL	Net-To-Gross Rate	-	-	-	-	-	-	-	-	-	-	N/A
	CFL	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	CFL	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	CFL	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	LED Lamps	Total Participants	98	1,087	1,158	860	652	422	0	0	0	0	4,277
Installed kWh/year	LED Lamps	Total Gross Energy Savings (kWh/yr)	2,491,918	39,042,855	59,357,424	66,832,082	44,146,943	40,486,351	0	0	0	0	252,357,572
	LED Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	LED Lamps	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	LED Lamps	Net Adjusted Savings (kWh/yr)	1,744,342	27,329,998	41,550,197	46,782,457	30,902,860	28,340,448	0	0	0	0	176,650,301
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	25,428	35,918	51,259	77,712	67,740	95,939	N/A	N/A	N/A	N/A	59,003
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	17,799	25,143	35,881	54,398	47,397	67,157	N/A	N/A	N/A	N/A	41,302
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	513.2	8,047.0	13,896.3	11,327.7	7,087.4	5,463.1	0.0	0.0	0.0	0.0	46,334.6
	LED Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	LED Lamps	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	LED Lamps	Net Adjusted Demand Reduction (kW)	359.2	5,632.9	9,727.4	7,929.4	4,961.2	3,824.1	0.0	0.0	0.0	0.0	32,434.2
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	5.2	7.4	12.0	13.2	10.9	12.9	N/A	N/A	N/A	N/A	10.8
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	3.7	5.2	8.4	9.2	7.6	9.1	N/A	N/A	N/A	N/A	7.6
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	LED Lamps	Realization Rate	-	-	-	-	-	-	-	-	-	-	N/A
	LED Lamps	Net-To-Gross Rate	-	-	-	-	-	-	-	-	-	-	N/A
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	Occupancy Sensors	Total Participants	3	307	77	105	89	130	0	0	0	0	711
Installed kWh/year	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	260,400	1,677,175	1,871,670	3,411,816	862,347	1,491,199	0	0	0	0	9,574,608
	Occupancy Sensors	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	Occupancy Sensors	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	182,280	1,174,023	1,310,169	2,388,271	603,643	1,043,840	0	0	0	0	6,702,225
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	86,800	5,463	24,307	32,493	9,689	11,471	N/A	N/A	N/A	N/A	13,466
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	60,760	3,824	17,015	22,745	6,783	8,030	N/A	N/A	N/A	N/A	9,426
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	53.0	282.9	245.3	445.6	97.7	171.6	0.0	0.0	0.0	0.0	1,296.1
	Occupancy Sensors	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	Occupancy Sensors	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	37.1	198.0	171.7	311.9	68.4	120.1	0.0	0.0	0.0	0.0	907.3
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	17.7	0.9	3.2	4.2	1.1	1.3	N/A	N/A	N/A	N/A	1.8
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	12.4	0.6	2.2	3.0	0.8	0.9	N/A	N/A	N/A	N/A	1.3
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0

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VA - Non-Residential Lighting Systems & Controls Program			2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2014-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Occupancy Sensors	Realization Rate	-	-	-	-	-	-	-	-	-	-	N/A
	Occupancy Sensors	Net-To-Gross Rate	-	-	-	-	-	-	-	-	-	-	N/A
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	T8/T5 Lamps	Total Participants	23	374	82	31	9	5	0	0	0	0	524
Installed kWh/year	T8/T5 Lamps	Total Gross Energy Savings (kWh/yr)	1,997,375	10,027,974	4,261,931	778,073	148,252	10,270	0	0	0	0	17,223,874
	T8/T5 Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	T8/T5 Lamps	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	T8/T5 Lamps	Net Adjusted Savings (kWh/yr)	1,398,162	7,019,582	2,983,351	544,651	103,776	7,189	0	0	0	0	12,056,712
	T8/T5 Lamps	Avg. Gross Savings per Participant (kWh/yr)	86,842	26,813	51,975	25,099	16,472	2,054	N/A	N/A	N/A	N/A	32,870
	T8/T5 Lamps	Avg. Net Savings per Participant (kWh/yr)	60,790	18,769	36,382	17,569	11,531	1,438	N/A	N/A	N/A	N/A	23,009
Installed Summer peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	432.2	2,328.4	1,124.3	184.1	37.3	2.6	0.0	0.0	0.0	0.0	4,108.9
	T8/T5 Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%
	T8/T5 Lamps	Net-To-Gross Rate	70%	70%	70%	70%	70%	70%	N/A	N/A	N/A	N/A	70%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	302.6	1,629.8	787.0	128.9	26.1	1.8	0.0	0.0	0.0	0.0	2,876.2
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	18.8	6.2	13.7	5.9	4.1	0.5	N/A	N/A	N/A	N/A	7.8
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	13.2	4.4	9.6	4.2	2.9	0.4	N/A	N/A	N/A	N/A	5.5
Installed Winter peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	T8/T5 Lamps	Realization Rate	-	-	-	-	-	-	-	-	-	-	N/A
	T8/T5 Lamps	Net-To-Gross Rate	-	-	-	-	-	-	-	-	-	-	N/A
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	0.0
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-

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JUN 14 2024



J.64.3 2014-2022 Virginia Non-Residential Lighting Systems & Controls Program (Phase III)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
3	Non-Residential Lighting Systems & Controls	2013		PUE-2013-00072	2.06	2.40	1.88	0.90
3	Non-Residential Lighting Systems & Controls	2014		PUE-2014-00071	N/A	N/A	N/A	N/A
3	Non-Residential Lighting Systems & Controls	2015		PUE-2015-00089	2.52	2.32	1.78	0.79
3	Non-Residential Lighting Systems & Controls	2016		PUE-2016-00111	4.33	3.90	2.90	0.67
3	Non-Residential Lighting Systems & Controls	2018		PUR-2018-00168	N/A	N/A	N/A	N/A
3	Non-Residential Lighting Systems & Controls	2019		PUR-2019-00201	N/A	N/A	N/A	N/A
3	Non-Residential Lighting Systems & Controls	2023	VA	PUR-2023-00217				

1. Program closed end of 2019.
2. A participant is a unique account number.
3. The 2016 total gross deemed savings values reported in this table differs from values in the May 1, 2017 EM&V report and have been refiled with the Commission. The adjustments totaled -14,862,478 kWh/year and 168 kW for 2016 reported savings. The adjustments accounts for corrections to STEP Manual version 7.0.0 issued on May 1, 2017, in section 9.1.1. The adjustment was to waste heat factors (WHFe and WHFd) applied to lighting fixtures installed in 2016, where the program participant building HVAC systems was assumed to be heat pump heating and cooling systems, rather than the previous assumption of AC cool and non-electric heat systems. This adjustment was made in response to requests by the North Carolina Public Staff Utilities Commission Re: Docket No. E-22, Sub 545, on October 23, 2017. It is reflected in STEP Manual version 8.0.0 in this EM&V report.



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J.65 Virginia Non-Residential Window Film Program (Phase III) 2014–2020

J.65.1 2014-2020 Virginia Non-Residential Window Film Program (Phase III) Annual Indicator Tables

VA - Non-Residential Window Film Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate								
O&M (\$)		Direct Implementation								
O&M (\$)		Direct EM&V								
O&M (\$)		Indirect Other (Administrative)								
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$382,742	\$400,634	\$430,529	\$550,444	\$369,265	\$103,090	\$25,376	\$2,262,051
Costs (\$)		Planned	\$705,718	\$1,240,249	\$1,712,877	\$1,921,714	\$2,237,336	\$60,177	\$0	\$7,878,071
Costs (\$)		Variance	-\$323,005	-\$839,615	-\$1,282,348	-\$1,371,270	-\$1,868,072	\$42,913	\$25,376	-\$5,616,020
		Annual % of Planned	54%	32%	25%	29%	17%	171%	N/A	29%
Participants <sup>1</sup>		Total (Gross)	3	22	70	59	91	8	0	253
		Total Square Feet	53,021	97,121	57,228	231,634	33,461	3,913	0	476,378
		Planned Square Feet	133,086	681,000	1,148,076	1,371,237	1,454,781	0	0	4,788,180
		Variance Square Feet	-80,065	-583,879	-1,090,848	-1,139,603	-1,421,320	3,913	0	-4,311,802
		Annual % of Planned (Gross)	40%	14%	5%	17%	2%	N/A	N/A	10%
Square Feet		Total Square Feet	53,021	97,121	57,228	231,634	33,461	3,913	0	476,378
		North Facing	11,663	23,535	13,931	48,150	2,090	1,104	0	100,473
		East Facing	14,597	24,260	8,105	61,663	7,387	424	0	116,436
		West Facing	15,090	22,836	15,826	62,196	12,254	713	0	128,915
		South Facing	11,671	26,490	19,366	59,625	11,730	1,672	0	130,554
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	1,152,476	3,077,815	464,794	1,734,665	170,954	8,956	0	6,609,660
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	1,152,476	3,077,815	464,794	1,734,665	170,954	8,956	0	6,609,660
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	N/A	80%
		Net-To-Gross Adjustment (kWh/yr)	-230,495	-615,563	-92,959	-346,933	-34,191	-1,791	0	-1,321,932
		Net Adjusted Savings (kWh/yr)	921,980	2,462,252	371,835	1,387,732	136,764	7,165	0	5,287,728
		Planned Net Savings (kWh/yr)	2,395,548	12,258	15,842,622	15,209,377	10,484,933	0	0	43,944,738
		Annual % Toward Planned Net Savings	38.5%	20086.9%	2.35%	9.12%	1.30%	N/A	N/A	12.0%
		Avg. Gross Savings per Participant (kWh/yr)	384,159	139,901	6,640	29,401	1,879	1,119	N/A	26,125
		Avg. Gross Savings per Square Feet (kWh/yr)	21.7	31.7	8.1	7.5	5.1	2.3	N/A	13.9
		Avg. Net Savings per Participant (kWh/yr)	307,327	111,921	5,312	23,521	1,503	896	N/A	20,900
		Avg. Net Savings per Square Feet (kWh/yr)	17.4	25.4	6.5	6.0	4.1	1.8	N/A	11.1
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	233.1	626.6	139.7	471.5	57.6	2.5	0.0	1,531.0
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	233.1	626.6	139.7	471.5	57.6	2.5	0.0	1,531.0
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	N/A	80%
		Net-To-Gross Adjustment (kW)	-46.6	-125.3	-27.9	-94.3	-11.5	-0.5	0.0	-306.2
		Net Adjusted Demand Reduction (kW)	186.5	501.2	111.8	377.2	46.1	2.0	0.0	1,224.8
		Planned Net Savings (kW)	532.3	0.0	14,493.3	13,690.4	9,624.8	0.0	0.0	38,340.9
		Annual % Toward Planned Net Reduction	35.0%	N/A	0.77%	2.76%	0.48%	N/A	N/A	3.19%
		Avg. Gross Demand Reduction per Participant (kW)	77.7	28.5	2.0	8.0	0.6	0.3	N/A	6.1
		Avg. Gross Demand Reduction per Square Feet (kW)	0.004	0.006	0.002	0.002	0.002	0.001	N/A	0.003
		Avg. Net Demand Reduction per Participant (kW)	62.2	22.8	1.6	6.4	0.5	0.2	N/A	4.8
		Avg. Net Demand Reduction Square Feet (kW)	0.004	0.005	0.002	0.002	0.001	0.001	N/A	0.003
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Gross Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction Square Feet (kW)	-	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$3,993	\$977	\$395	\$384	\$327	\$338	\$343	\$343
		\$Admin. per kWh/year (Gross)	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$51	\$28	\$38	\$40	\$52	\$56	\$57	\$57
		\$EM&V per \$Total	21.5%	19.1%	21.7%	19.8%	20.2%	21.7%	22.5%	22.5%
		\$Rebate per Participant (Gross)	\$6,090	\$1,181	\$802	\$1,753	\$1,208	\$1,182	\$1,182	\$1,182

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J.65.2 2014-2020 Virginia Non-Residential Window Film Program  
(Phase III) Measure Indicator Tables

VA - Non-Residential Window Film Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	East	Total Participants	2	12	21	24	27	4	0	90
	East	Total Square Feet	14,597	24,260	8,105	61,663	7,387	424	0	116,436
Installed kWh/year	East	Total Gross Energy Savings (kWh/yr)	389,188	891,105	63,736	603,178	32,782	1,964	0	1,981,953
	East	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	East	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	East	Net Adjusted Savings (kWh/yr)	311,351	712,884	50,988	482,542	26,225	1,571	0	1,585,562
	East	Avg. Gross Savings per Participant (kWh/yr)	194,594	74,259	3,035	25,132	1,214	491	N/A	22,022
	East	Avg. Gross Savings per Square Feet (kWh/yr)	26.7	36.7	7.9	9.8	4.4	4.6	N/A	17.0
	East	Avg. Net Savings per Participant (kWh/yr)	155,675	59,407	2,428	20,106	971	393	N/A	17,617
	East	Avg. Net Savings per Square Feet (kWh/yr)	21.3	29.4	6.3	7.8	3.6	3.7	N/A	13.6
Installed Summer peak kW	East	Total Gross Demand Reduction (kW)	76.2	175.1	18.1	147.7	9.4	0.5	0.0	427.1
	East	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	East	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	East	Net Adjusted Demand Reduction (kW)	60.9	140.1	14.5	118.2	7.6	0.4	0.0	341.7
	East	Avg. Gross Demand Reduction per Participant (kW)	38.1	14.6	0.9	6.2	0.3	0.1	N/A	4.7
	East	Avg. Gross Demand Reduction per Square Feet (kW)	0.01	0.01	0.00	0.00	0.00	0.00	N/A	0.00
	East	Avg. Net Demand Reduction per Participant (kW)	30.5	11.7	0.7	4.9	0.3	0.10	N/A	3.8
	East	Avg. Net Demand Reduction per Square Feet (kW)	0.00	0.01	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	East	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	East	Realization Rate	-	-	-	-	-	-	-	N/A
	East	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	East	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	East	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	East	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	East	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	East	Avg. Net Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	North	Total Participants	2	7	22	18	14	3	0	66
	North	Total Square Feet	11,663	23,535	13,931	48,150	2,090	1,104	0	100,473
Installed kWh/year	North	Total Gross Energy Savings (kWh/yr)	80,675	257,287	23,999	116,659	5,171	1,964	0	485,755
	North	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	North	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	North	Net Adjusted Savings (kWh/yr)	64,540	205,830	19,199	93,327	4,137	1,571	0	388,604
	North	Avg. Gross Savings per Participant (kWh/yr)	40,337	36,755	1,091	6,481	369	655	N/A	7,360
	North	Avg. Gross Savings per Square Feet (kWh/yr)	6.9	10.9	1.7	2.4	2.5	1.8	N/A	4.8
	North	Avg. Net Savings per Participant (kWh/yr)	32,270	29,404	873	5,185	295	524	N/A	5,888
	North	Avg. Net Savings per Square Feet (kWh/yr)	5.5	8.7	1.4	1.9	2.0	1.4	N/A	3.9
Installed Summer peak kW	North	Total Gross Demand Reduction (kW)	19.8	63.0	9.0	39.6	2.2	0.7	0.0	134.3
	North	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	North	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	North	Net Adjusted Demand Reduction (kW)	15.9	50.4	7.2	31.7	1.8	0.5	0.0	107.4
	North	Avg. Gross Demand Reduction per Participant (kW)	9.9	9.0	0.4	2.2	0.2	0.2	N/A	2.0
	North	Avg. Gross Demand Reduction per Square Feet (kW)	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
	North	Avg. Net Demand Reduction per Participant (kW)	7.9	7.2	0.3	1.8	0.1	0.2	N/A	1.6
	North	Avg. Net Demand Reduction per Square Feet (kW)	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	North	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	North	Realization Rate	-	-	-	-	-	-	-	N/A
	North	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	North	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	North	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	North	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	North	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	North	Avg. Net Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	South	Total Participants	2	18	35	34	48	4	0	141
	South	Total Square Feet	11,671	26,490	19,366	59,625	11,730	1,672	0	130,554

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VA - Non-Residential Window Film Program			2014	2015	2016	2017	2018	2019	2020	2014-2020
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	South	Total Gross Energy Savings (kWh/yr)	306,443	1,113,932	109,619	491,034	27,954	1,038	0	2,050,202
	South	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	South	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	South	Net Adjusted Savings (kWh/yr)	245,154	891,146	87,695	392,827	22,363	831	0	1,640,016
	South	Avg. Gross Savings per Participant (kWh/yr)	153,221	61,885	3,132	14,442	582	260	N/A	14,539
	South	Avg. Gross Savings per Square Feet (kWh/yr)	26.3	42.1	5.7	8.2	2.4	0.6	N/A	15.7
	South	Avg. Net Savings per Participant (kWh/yr)	122,577	49,508	2,506	11,554	466	208	N/A	11,631
	South	Avg. Net Savings per Square Feet (kWh/yr)	21.0	33.6	4.5	6.6	1.9	0.5	N/A	12.6
Installed Summer peak kW	South	Total Gross Demand Reduction (kW)	50.2	201.5	32.5	119.8	13.2	-0.1	0.0	417.1
	South	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	South	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	South	Net Adjusted Demand Reduction (kW)	40.1	161.2	26.0	95.9	10.6	-0.1	0.0	333.7
	South	Avg. Gross Demand Reduction per Participant (kW)	25.1	11.2	0.9	3.5	0.3	-0.03	N/A	3.0
	South	Avg. Gross Demand Reduction per Square Feet (kW)	0.00	0.01	0.00	0.00	0.00	0.00	N/A	0.00
	South	Avg. Net Demand Reduction per Participant (kW)	20.1	9.0	0.7	2.8	0.2	-0.03	N/A	2.4
	South	Avg. Net Demand Reduction per Square Feet (kW)	0.00	0.01	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	South	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	South	Realization Rate	-	-	-	-	-	-	-	N/A
	South	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	South	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	South	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	South	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	South	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	South	Avg. Net Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	West	Total Participants	3	8	31	25	35	5	0	107
	West	Total Square Feet	15,090	22,836	15,826	62,196	12,254	713	0	128,915
Installed kWh/year	West	Total Gross Energy Savings (kWh/yr)	376,170	815,491	267,441	523,794	105,048	3,989	0	2,091,933
	West	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	West	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	West	Net Adjusted Savings (kWh/yr)	300,936	652,393	213,952	419,035	84,039	3,191	0	1,673,546
	West	Avg. Gross Savings per Participant (kWh/yr)	125,390	101,936	8,627	20,952	3,001	798	N/A	19,551
	West	Avg. Gross Savings per Square Feet (kWh/yr)	24.9	35.7	16.9	8.4	8.6	5.6	N/A	16.2
	West	Avg. Net Savings per Participant (kWh/yr)	100,312	81,549	6,902	16,761	2,401	638	N/A	15,641
	West	Avg. Net Savings per Square Feet (kWh/yr)	19.9	28.6	13.5	6.7	6.9	4.5	N/A	13.0
Installed Summer peak kW	West	Total Gross Demand Reduction (kW)	87.0	186.9	80.1	164.3	32.7	1.5	0.0	552.5
	West	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	100%
	West	Net-To-Gross Rate	80%	80%	80%	80%	80%	80%	N/A	80%
	West	Net Adjusted Demand Reduction (kW)	69.6	149.6	64.0	131.5	26.2	1.2	0.0	442.0
	West	Avg. Gross Demand Reduction per Participant (kW)	29.0	23.4	2.6	6.6	0.9	0.3	N/A	5.2
	West	Avg. Gross Demand Reduction per Square Feet (kW)	0.01	0.01	0.01	0.00	0.00	0.00	N/A	0.00
	West	Avg. Net Demand Reduction per Participant (kW)	23.2	18.7	2.1	5.3	0.7	0.2	N/A	4.1
	West	Avg. Net Demand Reduction per Square Feet (kW)	0.00	0.01	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	West	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	West	Realization Rate	-	-	-	-	-	-	-	N/A
	West	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	West	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	West	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	West	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-
	West	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	West	Avg. Net Demand Reduction per Square Feet (kW)	-	-	-	-	-	-	-	-



J.65.3 2014-2020 Virginia Non-Residential Window Film Program  
(Phase III) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
3	Non-Residential Window Film	2013		PUE-2013-00072	4.06	5.96	3.70	1.00
3	Non-Residential Window Film	2014		PUE-2014-00071	N/A	N/A	N/A	N/A
3	Non-Residential Window Film	2015		PUE-2015-00089	4.35	5.52	3.43	0.87
3	Non-Residential Window Film	2016		PUE-2016-00111	6.45	13.13	8.71	1.68
3	Non-Residential Window Film	2018		PUR-2018-00168	N/A	N/A	N/A	N/A
3	Non-Residential Window Film	2019		PUR-2019-00201	N/A	N/A	N/A	N/A

1. Program closed end of 2019.
2. A participant is a unique account number



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**J.66 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IV) 2015–2022**

**J.66.1 2015-2022 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IV) Annual Indicator Tables**

VA - Residential Income and Age Qualifying Home Improvement Program			2015	2016	2017	2018	2019	2020	2021	2022	2015-2022
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate									
O&M (\$)		Direct Implementation									
O&M (\$)		Direct EM&V									
O&M (\$)		Indirect Other (Administrative)									
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$2,069,822	\$6,315,785	\$5,079,529	\$1,432,463	\$4,050,714	\$1,678,260	\$1,682,300	\$200,345	\$22,509,218
Costs (\$)		Planned	\$3,056,782	\$5,856,409	\$4,648,601	\$2,371,260	\$4,192,450	\$4,381,475	\$2,232,429	\$49,351	\$26,788,758
Costs (\$)		Variance	-\$986,960	\$459,376	\$430,927	-\$938,797	-\$141,736	-\$2,703,215	-\$550,129	\$150,994	-\$4,279,540
		Annual % of Planned	68%	108%	109%	60%	97%	38%	75%	406%	84%
Participants <sup>1</sup>		Total (Gross)	1,523	8,403	5,970	1,141	5,897	1,047	1,867	0	25,848
		Planned	1,849	3,843	3,846	2,000	4,218	4,218	1,880	0	21,854
		Variance	-326	4,560	2,124	-859	1,679	-3,171	-13	0	3,994
		Annual % of Planned (Gross)	82%	219%	155%	57%	140%	25%	99%	N/A	118%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	984,230	3,575,492	2,443,920	447,775	1,453,005	223,320	459,164	0	9,587,706
		Realization Rate Weighted by Measure	105%	105%	105%	105%	105%	105%	100%	N/A	105%
		Realization Rate Adjustment (kWh/yr)	49,212	178,775	122,196	22,389	72,690	11,166	0	0	456,427
		Realization Rate Adjusted Savings (kWh/yr)	1,033,442	3,754,267	2,566,116	470,164	1,526,495	234,486	459,164	0	10,044,134
		Net-To-Gross Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	80%	N/A	99%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	-91,833	0	-91,833
		Net Adjusted Savings (kWh/yr)	1,033,442	3,754,267	2,566,116	470,164	1,526,495	234,486	367,331	0	9,952,301
		Planned Net Savings (kWh/yr)	1,810,380	998,136	765,945	175,247	728,300	2,120,348	697,856	0	7,296,212
		Annual % Toward Planned Net Savings	57.1%	376.1%	335.0%	268.3%	209.6%	11.1%	52.6%	N/A	136.4%
		Avg. Gross Savings per Participant (kWh/yr)	646	426	409	392	247	213	246	N/A	371
		Avg. Net Savings per Participant (kWh/yr)	679	447	430	412	259	224	197	N/A	385
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	80.2	398.0	229.2	34.9	229.3	58.4	57.9	0.0	1,087.8
		Realization Rate Weighted by Measure	105%	105%	105%	105%	105%	105%	100%	N/A	100%
		Realization Rate Adjustment (kW)	4.0	19.9	11.5	1.7	11.5	2.9	0.0	0.0	51.5
		Realization Rate Adjusted Gross Demand Reduction (kW)	84.2	417.9	240.6	36.6	240.7	61.3	57.9	0.0	1,139.3
		Net-To-Gross Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	80%	N/A	99%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	-11.6	0.0	-11.6
		Net Adjusted Demand Reduction (kW)	84.2	417.9	240.6	36.6	240.7	61.3	46.3	0.0	1,127.7
		Planned Net Savings (kW)	415.0	217.7	170.2	0.0	75.6	205.1	135.4	0.0	1,218.9
		Annual % Toward Planned Net Reduction	20.3%	192.0%	141.4%	N/A	318.6%	29.9%	34.2%	N/A	92.5%
		Avg. Gross Demand Reduction per Participant (kW)	0.05	0.05	0.04	0.03	0.04	0.06	0.03	N/A	0.04
		Avg. Net Demand Reduction per Participant (kW)	0.06	0.05	0.04	0.03	0.04	0.06	0.02	N/A	0.04
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	155.4	0.0	155.4
		Realization Rate Weighted by Measure	-	-	-	-	-	-	100%	N/A	100%
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	155.4	0.0	155.4
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	80%	N/A	80%
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-31.1	0.0	-31.1
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	124.4	0.0	124.4
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.08	N/A	0.08
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.07	N/A	0.07
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$32	\$24	\$28	\$31	\$30	\$32	\$33	\$33	\$33
		\$Admin. per kWh/year (Gross)	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.09	\$0.09	\$0.09
		\$Admin. per kW (Gross)	\$602	\$502	\$622	\$702	\$708	\$755	\$787	\$795	\$795
		\$EM&V per \$Total	0.6%	1.2%	1.6%	2.1%	2.2%	2.5%	2.8%	3.7%	3.7%
		\$Rebate per Participant (Gross)	\$582	\$607	\$621	\$621	\$595	\$610	\$610	\$610	\$610

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J.66.2 2015-2022 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IV) Measure Indicator Tables

VA - Residential Income and Age Qualifying Home Improvement Program			2015	2016	2017	2018	2019	2020	2021	2022	2015-2022
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	40W LED	Total Participants	216	1,345	2,054	453	3,022	266	636	0	7,992
	40W LED	Total Gross Energy Savings (kWh/yr)	34,267	132,984	243,873	39,440	315,170	20,056	65,193	0	850,984
	40W LED	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	40W LED	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	98%
	40W LED	Net Adjusted Savings (kWh/yr)	35,981	139,634	256,066	41,412	330,928	21,059	52,155	0	877,235
	40W LED	Avg. Gross Savings per Participant (kWh/yr)	159	99	119	87	104	75	103	N/A	106
	40W LED	Avg. Net Savings per Participant (kWh/yr)	167	104	125	91	110	79	82	N/A	110
Installed Summer peak kW	40W LED	Total Gross Demand Reduction (kW)	3.1	15.1	26.7	4.0	28.8	1.8	6.0	0.0	85.6
	40W LED	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	40W LED	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	98%
	40W LED	Net Adjusted Demand Reduction (kW)	3.3	15.9	28.0	4.2	30.3	1.9	4.8	0.0	88.4
	40W LED	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	N/A	0.01
	40W LED	Avg. Net Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.01	0.01	0.01	N/A	0.01
	Installed Winter peak kW	40W LED	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	12.8	0.0
40W LED		Realization Rate	-	-	-	-	-	-	100%	N/A	100%
40W LED		Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
40W LED		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	10.2	0.0	10.2
40W LED		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.02	N/A	0.02
40W LED		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.02	N/A	0.02
Installed kWh/year		60W LED	Total Participants	1,484	7,903	4,728	541	3,393	230	1,086	0
	60W LED	Total Gross Energy Savings (kWh/yr)	378,739	1,565,237	925,244	46,541	395,413	20,540	173,820	0	3,505,532
	60W LED	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	60W LED	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	60W LED	Net Adjusted Savings (kWh/yr)	397,676	1,643,498	971,506	48,868	415,183	21,567	139,056	0	3,637,354
	60W LED	Avg. Gross Savings per Participant (kWh/yr)	255	198	196	86	117	89	160	N/A	181
	60W LED	Avg. Net Savings per Participant (kWh/yr)	268	208	205	90	122	94	128	N/A	188
Installed Summer peak kW	60W LED	Total Gross Demand Reduction (kW)	34.7	178.2	101.3	4.8	36.2	1.9	15.9	0.0	372.9
	60W LED	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	60W LED	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	60W LED	Net Adjusted Demand Reduction (kW)	36.4	187.1	106.3	5.0	38.0	2.0	12.7	0.0	387.6
	60W LED	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	0.01	0.01	0.01	N/A	0.02
	60W LED	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.01	0.01	0.01	0.01	N/A	0.02
	Installed Winter peak kW	60W LED	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	34.0	0.0
60W LED		Realization Rate	-	-	-	-	-	-	100%	N/A	100%
60W LED		Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
60W LED		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	27.2	0.0	27.2
60W LED		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.03	N/A	0.03
60W LED		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.03	N/A	0.03
Installed kWh/year		Attic Insulation	Total Participants	626	3,974	2,718	555	2,051	861	705	0
	Attic Insulation	Total Gross Energy Savings (kWh/yr)	73,712	742,610	576,138	81,074	436,580	147,782	132,651	0	2,190,548
	Attic Insulation	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Attic Insulation	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	Attic Insulation	Net Adjusted Savings (kWh/yr)	77,398	779,740	604,945	85,128	458,409	155,172	106,121	0	2,266,913
	Attic Insulation	Avg. Gross Savings per Participant (kWh/yr)	118	187	212	146	213	172	188	N/A	191
	Attic Insulation	Avg. Net Savings per Participant (kWh/yr)	124	196	223	153	224	180	151	N/A	197
Installed Summer peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	10.6	90.4	36.3	3.1	143.2	52.4	30.4	0.0	366.5
	Attic Insulation	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Attic Insulation	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	98%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	11.1	94.9	38.1	3.3	150.3	55.0	24.4	0.0	377.2
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.01	0.01	0.07	0.06	0.04	N/A	0.03
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.01	0.01	0.07	0.06	0.03	N/A	0.03
	Installed Winter peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	103.1	0.0

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VA - Residential Income and Age Qualifying Home Improvement Program			2015	2016	2017	2018	2019	2020	2021	2022	2015-2022
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Attic Insulation	Realization Rate	-	-	-	-	-	-	100%	N/A	100%
	Attic Insulation	Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	82.5	0.0	82.5
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.1	N/A	0.1
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.1	N/A	0.1
	Bathroom Aerator	Total Participants	945	4,343	2,371	473	1,069	96	262	0	9,559
Installed kWh/year	Bathroom Aerator	Total Gross Energy Savings (kWh/yr)	56,664	101,076	64,162	18,650	32,009	3,503	9,815	0	285,880
	Bathroom Aerator	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Bathroom Aerator	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	Bathroom Aerator	Net Adjusted Savings (kWh/yr)	59,497	106,130	67,370	19,582	33,609	3,678	7,852	0	297,720
	Bathroom Aerator	Avg. Gross Savings per Participant (kWh/yr)	60	23	27	39	30	36	37	N/A	30
	Bathroom Aerator	Avg. Net Savings per Participant (kWh/yr)	63	24	28	41	31	38	30	N/A	31
Installed Summer peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	6.7	12.0	7.6	1.8	3.5	0.3	1.1	0.0	33.2
	Bathroom Aerator	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Bathroom Aerator	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	7.1	12.6	8.0	1.9	3.7	0.3	0.9	0.0	34.6
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	1.1	0.0	1.1
	Bathroom Aerator	Realization Rate	-	-	-	-	-	-	100%	N/A	100%
	Bathroom Aerator	Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.9	0.0	0.9
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.00	N/A	0.00
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.00	N/A	0.00
	Kitchen Aerator	Total Participants	260	4,165	2,613	600	1,014	76	164	0	8,892
Installed kWh/year	Kitchen Aerator	Total Gross Energy Savings (kWh/yr)	5,719	82,600	57,771	36,212	61,009	4,540	10,890	0	258,739
	Kitchen Aerator	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Kitchen Aerator	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	Kitchen Aerator	Net Adjusted Savings (kWh/yr)	6,005	86,730	60,659	38,022	64,059	4,767	8,712	0	268,953
	Kitchen Aerator	Avg. Gross Savings per Participant (kWh/yr)	22	20	22	60	60	60	66	N/A	29
	Kitchen Aerator	Avg. Net Savings per Participant (kWh/yr)	23	21	23	63	63	63	53	N/A	30
Installed Summer peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	0.7	9.8	6.9	1.5	2.6	0.2	0.4	0.0	22.1
	Kitchen Aerator	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Kitchen Aerator	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	100%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	0.7	10.3	7.2	1.6	2.7	0.2	0.3	0.0	23.1
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	0.4	0.0	0.4
	Kitchen Aerator	Realization Rate	-	-	-	-	-	-	100%	N/A	100%
	Kitchen Aerator	Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.3	0.0	0.3
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.00	N/A	0.00
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.00	N/A	0.00
	Pipe Insulation	Total Participants	335	3,235	2,441	435	633	44	130	0	7,253
Installed kWh/year	Pipe Insulation	Total Gross Energy Savings (kWh/yr)	19,513	267,218	152,843	120,115	41,339	2,447	8,827	0	612,101
	Pipe Insulation	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Pipe Insulation	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	100%
	Pipe Insulation	Net Adjusted Savings (kWh/yr)	20,488	280,579	160,276	126,120	43,406	2,570	7,061	0	640,500
	Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	58	83	63	276	65	56	68	N/A	84
	Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	61	87	66	290	69	58	54	N/A	88
Installed Summer peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	2.2	30.5	17.4	13.7	4.7	0.3	1.0	0.0	69.9
	Pipe Insulation	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%

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VA - Residential Income and Age Qualifying Home Improvement Program			2015	2016	2017	2018	2019	2020	2021	2022	2015-2022
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Pipe Insulation	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	100%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	2.3	32.0	18.3	14.4	5.0	0.3	0.8	0.0	73.1
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.03	0.01	0.01	0.01	N/A	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.03	0.01	0.01	0.01	N/A	0.01
Installed Winter peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	1.0	0.0	1.0
	Pipe Insulation	Realization Rate	-	-	-	-	-	-	100%	N/A	100%
	Pipe Insulation	Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	0.8	0.0	0.8
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.01	N/A	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.01	N/A	0.01
Installed kWh/year	Showerhead	Total Participants	955	4,383	2,339	427	879	125	255	0	9,363
	Showerhead	Total Gross Energy Savings (kWh/yr)	415,617	683,768	424,089	105,743	172,285	24,453	57,967	0	1,883,922
	Showerhead	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Showerhead	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	99%
	Showerhead	Net Adjusted Savings (kWh/yr)	436,397	717,956	445,294	111,030	180,900	25,675	46,374	0	1,963,626
	Showerhead	Avg. Net Savings per Participant (kWh/yr)	457	164	190	260	206	205	182	N/A	210
Installed Summer peak kW	Showerhead	Total Gross Demand Reduction (kW)	22.1	61.9	33.0	5.9	10.3	1.4	3.1	0.0	137.7
	Showerhead	Realization Rate	105%	105%	105%	105%	105%	105%	100%	N/A	105%
	Showerhead	Net-To-Gross Rate	100%	100%	100%	100%	100%	100%	80%	N/A	100%
	Showerhead	Net Adjusted Demand Reduction (kW)	23.2	65.0	34.6	6.2	10.8	1.5	2.5	0.0	143.8
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.01	0.01	0.01	N/A	0.01
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.01	0.01	0.01	N/A	0.02
Installed Winter peak kW	Showerhead	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	3.1	0.0	3.1
	Showerhead	Realization Rate	-	-	-	-	-	-	100%	N/A	100%
	Showerhead	Net-To-Gross Rate	-	-	-	-	-	-	80%	N/A	80%
	Showerhead	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	2.5	0.0	2.5
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.01	N/A	0.01
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	0.01	N/A	0.01

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J.66.3 2015-2022 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IV) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
4	Residential Income and Age Qualifying Home Improvement	2014		PUE-2014-00071	++	0.39	2.10	0.26
4	Residential Income and Age Qualifying Home Improvement	2015		PUE-2015-00089	N/A	N/A	N/A	N/A
4	Residential Income and Age Qualifying Home Improvement	2016		PUE-2016-00111	++	0.27	0.27	0.19
4	Residential Income and Age Qualifying Home Improvement	2018		PUR-2018-00168	++	0.24	0.24	0.16
4	Residential Income and Age Qualifying Home Improvement	2019		PUR-2019-00201	++	0.21	0.21	0.14
4	Residential Income and Age Qualifying Home Improvement	2020		PUR-2020-00274	++	0.58	0.58	0.23
4	Residential Income and Age Qualifying Home Improvement	2021		PUR-2021-00247	++	1.57	1.57	0.32



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J.67 Virginia Non-Residential Small Business Improvement Program (Phase V) 2016-2023

J.67.1 2016-2023 Virginia Non-Residential Small Business Improvement Program (Phase V) Annual Indicator Tables

VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate									
O&M (\$)		Direct Implementation									
O&M (\$)		Direct EM&V									
O&M (\$)		Indirect Other (Administrative)									
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$705,139	\$3,827,332	\$3,375,566	\$3,446,135	\$2,789,194	\$800,775	\$83,084	\$81,837	\$15,109,062
Costs (\$)		Planned	\$2,306,697	\$5,322,647	\$6,548,990	\$7,784,513	\$8,769,684	\$627,060	\$0	\$0	\$31,359,481
Costs (\$)		Variance	-\$1,601,548	-\$1,495,315	-\$3,173,324	-\$4,338,378	-\$5,980,489	\$173,715	\$83,084	\$81,837	-\$16,250,419
		Annual % of Planned	31%	72%	52%	44%	32%	128%	N/A	N/A	48%
Participants <sup>1</sup>		Total (Gross)	67	937	510	503	327	68	0	0	2,412
		Planned	216	635	780	928	1,075	0	0	0	3,634
		Variance	-149	302	-270	-425	-748	68	0	0	-1,222
		Annual % of Planned (Gross)	31%	148%	65%	54%	30%	N/A	N/A	N/A	66%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	656,801	14,699,005	15,998,914	11,648,664	8,097,820	1,808,558	0	0	52,909,762
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	656,801	14,699,005	15,998,914	11,648,664	8,097,820	1,808,558	0	0	52,909,762
		Net-To-Gross Rate Weighted by Measure	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
		Net-To-Gross Adjustment (kWh/yr)	-45,976	-1,028,930	-1,119,924	-815,407	-566,847	-126,599	0	0	-3,703,683
		Net Adjusted Savings (kWh/yr)	610,825	13,670,074	14,878,990	10,833,258	7,530,972	1,681,959	0	0	49,206,079
		Planned Net Savings (kWh/yr)	1,254,097	4,323,476	5,760,927	9,774,740	29,581,410	0	0	0	50,694,651
		Annual % Toward Planned Net Savings	48.7%	316.2%	258.3%	110.8%	25.5%	N/A	N/A	N/A	97.1%
		Avg. Gross Savings per Participant (kWh/yr)	9,803	15,687	31,370	23,158	24,764	26,596	N/A	N/A	21,936
		Avg. Net Savings per Participant (kWh/yr)	9,117	14,589	29,174	21,537	23,030	24,735	N/A	N/A	20,401
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	131.5	3,098.0	3,475.7	2,553.5	1,623.5	328.0	0.0	0.0	11,210.2
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	131.5	3,098.0	3,475.7	2,553.5	1,623.5	328.0	0.0	0.0	11,210.2
		Net-To-Gross Rate Weighted by Measure	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
		Net-To-Gross Adjustment (kW)	-9.2	-216.9	-243.3	-178.7	-113.6	-23.0	0.0	0.0	-784.7
		Net Adjusted Demand Reduction (kW)	122.3	2,881.2	3,232.4	2,374.8	1,509.8	305.0	0.0	0.0	10,425.5
		Planned Net Savings (kW)	307.7	660.7	1,135.0	1,930.3	5,545.5	0.0	0.0	0.0	9,579.2
		Annual % Toward Planned Net Reduction	39.8%	436.1%	284.1%	123.0%	27.2%	N/A	N/A	N/A	108.8%
		Avg. Gross Demand Reduction per Participant (kW)	2.0	3.3	6.8	5.1	5.0	4.8	N/A	N/A	4.6
		Avg. Net Demand Reduction per Participant (kW)	1.8	3.1	6.3	4.7	4.6	4.5	N/A	N/A	4.3
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	231.8	0.0	0.0	231.8
		Realization Rate Weighted by Measure	-	-	-	-	-	100%	N/A	N/A	100%
		Realization Rate Adjustment (kW)	-	-	-	-	-	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	231.8	0.0	0.0	231.8
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	93%	N/A	N/A	93%
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-16.2	0.0	0.0	-16.2
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	215.6	0.0	0.0	215.6
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	-	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	3.4	N/A	N/A	3.4
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	3.2	N/A	N/A	3.2
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$320	\$171	\$240	\$260	\$287	\$294	\$295	\$298	\$298
		\$Admin. per kWh/year (Gross)	\$0.03	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	\$163	\$53	\$54	\$57	\$62	\$63	\$64	\$64	\$64
		SEM&V per \$Total	6.5%	3.5%	3.4%	3.0%	3.2%	4.1%	4.6%	5.1%	5.1%
		\$Rebate per Participant (Gross)	\$1,364	\$2,598	\$3,131	\$3,475	\$3,662	\$3,685	\$3,685	\$3,685	\$3,685

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JUN 14 2024



J.67.2 2016-2023 Virginia Non-Residential Small Business Improvement Program (Phase V) Measure Indicator Tables

VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	AC Tune-Ups	Total Participants	11	392	271	332	177	32	0	0	1,215
	AC Tune-Ups	Total Gross Energy Savings (kWh/yr)	16,664	258,208	133,469	144,119	133,146	51,856	0	0	737,463
	AC Tune-Ups	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	AC Tune-Ups	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	AC Tune-Ups	Net Adjusted Savings (kWh/yr)	15,498	240,133	124,127	134,031	123,828	48,226	0	0	685,840
	AC Tune-Ups	Avg. Gross Savings per Participant (kWh/yr)	1,515	659	493	434	752	1,620	N/A	N/A	607
	AC Tune-Ups	Avg. Net Savings per Participant (kWh/yr)	1,409	613	458	404	700	1,507	N/A	N/A	564
Installed Summer peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	4.2	142.5	116.0	163.6	73.1	17.4	0.0	0.0	517.0
	AC Tune-Ups	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	AC Tune-Ups	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	AC Tune-Ups	Net Adjusted Demand Reduction (kW)	3.9	132.5	107.9	152.3	68.0	16.2	0.0	0.0	480.8
	AC Tune-Ups	Avg. Gross Demand Reduction per Participant (kW)	0.4	0.4	0.4	0.5	0.4	0.5	N/A	N/A	0.4
	AC Tune-Ups	Avg. Net Demand Reduction per Participant (kW)	0.4	0.3	0.4	0.5	0.4	0.5	N/A	N/A	0.4
	AC Tune-Ups										
Installed Winter peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	-	-	-	-	-	5.6	0.0	0.0	5.6
	AC Tune-Ups	Realization Rate	-	-	-	-	-	100%	N/A	N/A	100%
	AC Tune-Ups	Net-To-Gross Rate	-	-	-	-	-	93%	N/A	N/A	93%
	AC Tune-Ups	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	5.2	0.0	0.0	5.2
	AC Tune-Ups	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	0.2	N/A	N/A	0.2
	AC Tune-Ups	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	0.2	N/A	N/A	0.2
	AC Tune-Ups										
Installed kWh/year	Door Closer	Total Participants	20	264	0	0	0	0	0	0	284
	Door Closer	Total Gross Energy Savings (kWh/yr)	5,017	33,018	0	0	0	0	0	0	38,035
	Door Closer	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Door Closer	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Door Closer	Net Adjusted Savings (kWh/yr)	4,666	30,707	0	0	0	0	0	0	35,373
	Door Closer	Avg. Gross Savings per Participant (kWh/yr)	251	125	N/A	N/A	N/A	N/A	N/A	N/A	134
	Door Closer	Avg. Net Savings per Participant (kWh/yr)	233	116	N/A	N/A	N/A	N/A	N/A	N/A	125
Installed Summer peak kW	Door Closer	Total Gross Demand Reduction (kW)	0.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	4.3
	Door Closer	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Door Closer	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Door Closer	Net Adjusted Demand Reduction (kW)	0.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.01	N/A	N/A	N/A	N/A	N/A	N/A	0.02
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	0.03	0.01	N/A	N/A	N/A	N/A	N/A	N/A	0.01
	Door Closer										
Installed Winter peak kW	Door Closer	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Door Closer	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Door Closer	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Door Closer	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Closer										
Installed kWh/year	Door Gasket	Total Participants	32	406	0	0	0	0	0	0	438
	Door Gasket	Total Gross Energy Savings (kWh/yr)	58,417	374,173	0	0	0	0	0	0	432,590
	Door Gasket	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Door Gasket	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Door Gasket	Net Adjusted Savings (kWh/yr)	54,327	347,981	0	0	0	0	0	0	402,309
	Door Gasket	Avg. Gross Savings per Participant (kWh/yr)	1,826	922	N/A	N/A	N/A	N/A	N/A	N/A	988
	Door Gasket	Avg. Net Savings per Participant (kWh/yr)	1,698	857	N/A	N/A	N/A	N/A	N/A	N/A	919
Installed Summer peak kW	Door Gasket	Total Gross Demand Reduction (kW)	7.1	43.5	0.0	0.0	0.0	0.0	0.0	0.0	50.6
	Door Gasket	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Door Gasket	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Door Gasket	Net Adjusted Demand Reduction (kW)	6.6	40.5	0.0	0.0	0.0	0.0	0.0	0.0	47.1
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	0.2	0.1	N/A	N/A	N/A	N/A	N/A	N/A	0.1
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	0.2	0.10	N/A	N/A	N/A	N/A	N/A	N/A	0.1
	Door Gasket										
Installed Winter peak kW	Door Gasket	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0

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VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Door Gasket	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Door Gasket	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Door Gasket	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Duct Test and Seal	Total Participants	11	314	194	176	151	17	0	0	863
Installed kWh/year	Duct Test and Seal	Total Gross Energy Savings (kWh/yr)	70,441	1,105,899	273,396	102,916	133,278	10,497	0	0	1,696,428
	Duct Test and Seal	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	Duct Test and Seal	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	Duct Test and Seal	Net Adjusted Savings (kWh/yr)	65,510	1,028,486	254,258	95,712	123,949	9,762	0	0	1,577,678
	Duct Test and Seal	Avg. Gross Savings per Participant (kWh/yr)	6,404	3,522	1,409	585	883	617	N/A	N/A	1,966
	Duct Test and Seal	Avg. Net Savings per Participant (kWh/yr)	5,955	3,275	1,311	544	821	574	N/A	N/A	1,828
Installed Summer peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	9.4	209.6	132.9	114.6	130.1	16.6	0.0	0.0	613.0
	Duct Test and Seal	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	Duct Test and Seal	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	6.7	194.9	123.6	106.6	121.0	15.4	0.0	0.0	570.1
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	0.9	0.7	0.7	0.7	0.9	1.0	N/A	N/A	0.7
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	0.8	0.6	0.6	0.6	0.8	0.9	N/A	N/A	0.7
Installed Winter peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	-	-	-	-	-	28.6	0.0	0.0	28.6
	Duct Test and Seal	Realization Rate	-	-	-	-	-	100%	N/A	N/A	100%
	Duct Test and Seal	Net-To-Gross Rate	-	-	-	-	-	93%	N/A	N/A	93%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	26.6	0.0	0.0	26.6
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	1.7	N/A	N/A	1.7
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	1.6	N/A	N/A	1.6
Installed kWh/year	Economizers	Total Participants	0	0	0	1	0	0	0	0	1
	Economizers	Total Gross Energy Savings (kWh/yr)	0	0	0	1,352	0	0	0	0	1,352
	Economizers	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Economizers	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Economizers	Net Adjusted Savings (kWh/yr)	0	0	0	1,257	0	0	0	0	1,257
	Economizers	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,352	N/A	N/A	N/A	N/A	1,352
	Economizers	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,257	N/A	N/A	N/A	N/A	1,257
Installed Summer peak kW	Economizers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Economizers	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Economizers	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Economizers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	0.0
	Economizers	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	0.0
Installed Winter peak kW	Economizers	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Economizers	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Economizers	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Economizers	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Economizers	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Heat Pump Upgrade	Total Participants	0	0	1	0	0	0	0	0	1
	Heat Pump Upgrade	Total Gross Energy Savings (kWh/yr)	0	0	190	0	0	0	0	0	190
	Heat Pump Upgrade	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	N/A	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	N/A	93%	N/A	N/A	N/A	N/A	N/A	93%
	Heat Pump Upgrade	Net Adjusted Savings (kWh/yr)	0	0	176	0	0	0	0	0	176
	Heat Pump Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	190	N/A	N/A	N/A	N/A	N/A	190
	Heat Pump Upgrade	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	176	N/A	N/A	N/A	N/A	N/A	176
Installed Summer peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
	Heat Pump Upgrade	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	N/A	100%

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JUN 14 2024



VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Messure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	N/A	93%	N/A	N/A	N/A	N/A	N/A	93%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.09	N/A	N/A	N/A	N/A	N/A	0.09
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.08	N/A	N/A	N/A	N/A	N/A	0.08
Installed Winter peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Heat Pump Upgrade	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Heat Pump Upgrade	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	LED Lamps	Total Participants	27	417	406	331	228	55	0	0	1,464
Installed kWh/year	LED Lamps	Total Gross Energy Savings (kWh/yr)	437,228	12,145,868	15,588,700	11,331,430	7,823,749	1,728,385	0	0	49,055,359
	LED Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	LED Lamps	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	LED Lamps	Net Adjusted Savings (kWh/yr)	406,622	11,295,657	14,497,491	10,538,230	7,276,086	1,607,398	0	0	45,621,484
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	16,194	29,127	38,396	34,234	34,315	31,425	N/A	N/A	33,508
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	15,060	27,088	35,708	31,838	31,913	29,225	N/A	N/A	31,162
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	102.5	2,628.0	3,226.2	2,265.5	1,419.3	290.6	0.0	0.0	9,932.2
	LED Lamps	Realization Rate	100%	100%	100%	100%	100%	100%	N/A	N/A	100%
	LED Lamps	Net-To-Gross Rate	93%	93%	93%	93%	93%	93%	N/A	N/A	93%
	LED Lamps	Net Adjusted Demand Reduction (kW)	95.3	2,444.1	3,000.4	2,106.9	1,320.0	270.3	0.0	0.0	9,236.9
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	3.8	6.3	7.9	6.8	6.2	5.3	N/A	N/A	6.8
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	3.5	5.9	7.4	6.4	5.8	4.9	N/A	N/A	6.3
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	-	-	-	-	195.9	0.0	0.0	195.9
	LED Lamps	Realization Rate	-	-	-	-	-	100%	N/A	N/A	100%
	LED Lamps	Net-To-Gross Rate	-	-	-	-	-	93%	N/A	N/A	93%
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	182.2	0.0	0.0	182.2
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	3.6	N/A	N/A	3.6
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	3.3	N/A	N/A	3.3
	Night Cover	Total Participants	0	8	0	0	0	0	0	0	8
Installed kWh/year	Night Cover	Total Gross Energy Savings (kWh/yr)	0	162,902	0	0	0	0	0	0	162,902
	Night Cover	Realization Rate	N/A	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Night Cover	Net-To-Gross Rate	N/A	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Night Cover	Net Adjusted Savings (kWh/yr)	0	151,499	0	0	0	0	0	0	151,499
	Night Cover	Avg. Gross Savings per Participant (kWh/yr)	N/A	20,363	N/A	N/A	N/A	N/A	N/A	N/A	20,363
	Night Cover	Avg. Net Savings per Participant (kWh/yr)	N/A	18,937	N/A	N/A	N/A	N/A	N/A	N/A	18,937
Installed Summer peak kW	Night Cover	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Night Cover	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Night Cover	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	N/A	N/A	N/A	N/A	0.0
	Night Cover	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	N/A	N/A	N/A	N/A	0.0
Installed Winter peak kW	Night Cover	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Night Cover	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Night Cover	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Night Cover	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Night Cover	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Night Cover	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Occupancy Sensors	Total Participants	0	1	3	3	14	6	0	0	27
Installed kWh/year	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	0	4,403	3,159	8,482	7,647	1,643	0	0	25,334
	Occupancy Sensors	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	N/A	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	93%	93%	93%	93%	93%	N/A	N/A	93%



VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	0	4,094	2,938	7,888	7,112	1,528	0	0	23,561
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	4,403	1,053	2,827	546	274	N/A	N/A	938
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	N/A	4,094	979	2,629	508	255	N/A	N/A	873
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	0.0	0.5	0.5	0.9	1.0	0.2	0.0	0.0	3.2
	Occupancy Sensors	Realization Rate	N/A	100%	100%	100%	100%	100%	N/A	N/A	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	93%	93%	93%	93%	93%	N/A	N/A	93%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	0.0	0.5	0.5	0.9	0.9	0.2	0.0	0.0	2.9
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.5	0.2	0.3	0.07	0.03	N/A	N/A	0.1
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	0.5	0.2	0.3	0.07	0.03	N/A	N/A	0.1
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.1	0.0	0.0	0.1
	Occupancy Sensors	Realization Rate	-	-	-	-	-	100%	N/A	N/A	100%
	Occupancy Sensors	Net-To-Gross Rate	-	-	-	-	-	93%	N/A	N/A	93%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.1	0.0	0.0	0.1
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	0.01	N/A	N/A	0.01
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	0.01	N/A	N/A	0.01
	Programmable Thermostats	Total Participants	0	0	0	1	0	0	0	0	1
Installed kWh/year	Programmable Thermostats	Total Gross Energy Savings (kWh/yr)	0	0	0	5,827	0	0	0	0	5,827
	Programmable Thermostats	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Programmable Thermostats	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Programmable Thermostats	Net Adjusted Savings (kWh/yr)	0	0	0	5,420	0	0	0	0	5,420
	Programmable Thermostats	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	5,827	N/A	N/A	N/A	N/A	5,827
	Programmable Thermostats	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	5,420	N/A	N/A	N/A	N/A	5,420
Installed Summer peak kW	Programmable Thermostats	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Programmable Thermostats	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Programmable Thermostats	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Programmable Thermostats	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Programmable Thermostats	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	0.0
	Programmable Thermostats	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	0.0
Installed Winter peak kW	Programmable Thermostats	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Programmable Thermostats	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Programmable Thermostats	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Programmable Thermostats	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Programmable Thermostats	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Programmable Thermostats	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Refrigerant Charge Adjustment (AC-HP)	Total Participants	0	0	0	1	0	0	0	0	1
Installed kWh/year	Refrigerant Charge Adjustment (AC-HP)	Total Gross Energy Savings (kWh/yr)	0	0	0	80	0	0	0	0	80
	Refrigerant Charge Adjustment (AC-HP)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Refrigerant Charge Adjustment (AC-HP)	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Refrigerant Charge Adjustment (AC-HP)	Net Adjusted Savings (kWh/yr)	0	0	0	74	0	0	0	0	74
	Refrigerant Charge Adjustment (AC-HP)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	80	N/A	N/A	N/A	N/A	80
	Refrigerant Charge Adjustment (AC-HP)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	74	N/A	N/A	N/A	N/A	74
Installed Summer peak kW	Refrigerant Charge Adjustment (AC-HP)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigerant Charge Adjustment (AC-HP)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Refrigerant Charge Adjustment (AC-HP)	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Refrigerant Charge Adjustment (AC-HP)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Refrigerant Charge Adjustment (AC-HP)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.04	N/A	N/A	N/A	N/A	0.04
	Refrigerant Charge Adjustment (AC-HP)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.04	N/A	N/A	N/A	N/A	0.04
Installed Winter peak kW	Refrigerant Charge Adjustment (AC-HP)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Refrigerant Charge Adjustment (AC-HP)	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Refrigerant Charge Adjustment (AC-HP)	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Refrigerant Charge Adjustment (AC-HP)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Refrigerant Charge Adjustment (AC-HP)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-

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Jun 14 2024

VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Refrigerant Charge Adjustment (AC-HP)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Strip Curtain	Total Participants	26	322	0	0	0	0	0	0	348
	Strip Curtain	Total Gross Energy Savings (kWh/yr)	69,035	614,534	0	0	0	0	0	0	683,569
	Strip Curtain	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Strip Curtain	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Strip Curtain	Net Adjusted Savings (kWh/yr)	64,203	571,517	0	0	0	0	0	0	635,719
	Strip Curtain	Avg. Gross Savings per Participant (kWh/yr)	2,655	1,908	N/A	N/A	N/A	N/A	N/A	N/A	1,964
	Strip Curtain	Avg. Net Savings per Participant (kWh/yr)	2,459	1,775	N/A	N/A	N/A	N/A	N/A	N/A	1,827
Installed Summer peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	7.9	70.2	0.0	0.0	0.0	0.0	0.0	0.0	78.0
	Strip Curtain	Realization Rate	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%
	Strip Curtain	Net-To-Gross Rate	93%	93%	N/A	N/A	N/A	N/A	N/A	N/A	93%
	Strip Curtain	Net Adjusted Demand Reduction (kW)	7.3	65.2	0.0	0.0	0.0	0.0	0.0	0.0	72.6
	Strip Curtain	Avg. Gross Demand Reduction per Participant (kW)	0.3	0.2	N/A	N/A	N/A	N/A	N/A	N/A	0.2
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	0.3	0.2	N/A	N/A	N/A	N/A	N/A	N/A	0.2
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	0.3	0.2	N/A	N/A	N/A	N/A	N/A	N/A	0.2
Installed Winter peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Strip Curtain	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Strip Curtain	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Strip Curtain	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Strip Curtain	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Strip Curtain	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	T8/T5 Lamps	Total Participants	0	0	0	1	0	1	0	0	2
	T8/T5 Lamps	Total Gross Energy Savings (kWh/yr)	0	0	0	31,015	0	16,177	0	0	47,192
	T8/T5 Lamps	Realization Rate	N/A	N/A	N/A	100%	N/A	100%	N/A	N/A	100%
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	93%	N/A	N/A	93%
	T8/T5 Lamps	Net Adjusted Savings (kWh/yr)	0	0	0	28,844	0	15,045	0	0	43,889
	T8/T5 Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	31,015	N/A	16,177	N/A	N/A	23,596
	T8/T5 Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	28,844	N/A	15,045	N/A	N/A	21,944
Installed Summer peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	7.9	0.0	3.1	0.0	0.0	11.0
	T8/T5 Lamps	Realization Rate	N/A	N/A	N/A	100%	N/A	100%	N/A	N/A	100%
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	93%	N/A	N/A	93%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	7.3	0.0	2.9	0.0	0.0	10.2
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	7.9	N/A	3.1	N/A	N/A	5.5
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	7.3	N/A	2.9	N/A	N/A	5.1
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	7.3	N/A	2.9	N/A	N/A	5.1
Installed Winter peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	-	-	-	-	-	1.6	0.0	0.0	1.6
	T8/T5 Lamps	Realization Rate	-	-	-	-	-	100%	N/A	N/A	100%
	T8/T5 Lamps	Net-To-Gross Rate	-	-	-	-	-	93%	N/A	N/A	93%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	1.5	0.0	0.0	1.5
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	1.6	N/A	N/A	1.6
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	1.5	N/A	N/A	1.5
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	1.5	N/A	N/A	1.5
Installed kWh/year	Variable Frequency Drives (VFD)	Total Participants	0	0	0	1	0	0	0	0	1
	Variable Frequency Drives (VFD)	Total Gross Energy Savings (kWh/yr)	0	0	0	23,442	0	0	0	0	23,442
	Variable Frequency Drives (VFD)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Variable Frequency Drives (VFD)	Net Adjusted Savings (kWh/yr)	0	0	0	21,801	0	0	0	0	21,801
	Variable Frequency Drives (VFD)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	23,442	N/A	N/A	N/A	N/A	23,442
	Variable Frequency Drives (VFD)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	21,801	N/A	N/A	N/A	N/A	21,801
Installed Summer peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.9
	Variable Frequency Drives (VFD)	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	N/A	93%
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.8
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.9	N/A	N/A	N/A	N/A	0.9
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.8	N/A	N/A	N/A	N/A	0.8
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.8	N/A	N/A	N/A	N/A	0.8
VA - Non-Residential Small Business Improvement Program			2016	2017	2018	2019	2020	2021	2022	2023	2016-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
Installed Winter peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Variable Frequency Drives (VFD)	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-



J.67.3 2016-2023 Virginia Non-Residential Small Business Improvement Program (Phase V) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
5	Non-Residential Small Business Improvement	2015		PUE-2015-00089	2.26	1.45	1.31	0.59
5	Non-Residential Small Business Improvement	2016		PUE-2016-00111	N/A	N/A	N/A	N/A
5	Non-Residential Small Business Improvement	2018		PUR-2018-00168	2.05	1.27	1.07	0.52
5	Non-Residential Small Business Improvement	2019		PUR-2019-00201	2.71	1.80	1.48	0.56
5	Non-Residential Small Business Improvement	2020		PUR-2020-00274	3.13	2.08	1.74	0.57
5	Non-Residential Small Business Improvement	2021		PUR-2021-00247	N/A	N/A	N/A	N/A
5	Non-Residential Small Business Improvement	2022		PUR-2022-00210	N/A	N/A	N/A	N/A
5	Non-Residential Small Business Improvement	2023	VA	PUR-2023-00217				

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J.68 Virginia Non-Residential Prescriptive Program (Phase VI) 2017–2023

J.68.1 2017–2023 Virginia Non-Residential Prescriptive Program (Phase VI) Annual Indicator Tables

VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate								
O&M (\$)		Direct Implementation								
O&M (\$)		Direct EM&V								
O&M (\$)		Indirect Other (Administrative)								
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$734,410	\$6,748,855	\$5,887,581	\$11,128,206	\$8,490,163	\$214,195	\$21,933	\$33,225,343
Costs (\$)		Planned	\$3,735,349	\$6,246,114	\$6,354,082	\$6,282,076	\$6,176,552	\$49,351	\$0	\$28,843,524
Costs (\$)		Variance	-\$3,000,939	\$502,740	-\$466,501	\$4,846,131	\$2,313,611	\$164,844	\$21,933	\$4,381,819
		Annual % of Planned	20%	108%	93%	177%	137%	434%	N/A	115%
Participants <sup>1</sup>		Total (Gross)	4	865	666	577	709	14	0	2,835
		Planned	266	427	427	427	437	0	0	1,984
		Variance	-262	438	239	150	272	14	0	851
		Annual % of Planned (Gross)	2%	203%	156%	135%	162%	N/A	N/A	143%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	699	7,023,169	4,403,947	45,108,795	25,303,910	332,103	0	82,172,624
		Realization Rate Weighted by Measure	100%	100%	100%	48%	61%	57%	N/A	59%
		Realization Rate Adjustment (kWh/yr)	0	0	0	-23,380,737	-9,007,233	-143,337	0	-33,431,307
		Realization Rate Adjusted Savings (kWh/yr)	699	7,023,169	4,403,947	21,728,058	15,396,678	188,766	0	48,741,317
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%	90%	87%	N/A	N/A	88%
		Net-To-Gross Adjustment (kWh/yr)	-105	-1,053,475	-660,592	-2,649,527	-2,586,225	-30,538	0	-6,980,463
		Net Adjusted Savings (kWh/yr)	594	5,969,694	3,743,355	19,078,531	12,810,453	158,228	0	41,760,854
		Planned Net Savings (kWh/yr)	5,959,948	26,839,364	1,672,489	4,662,193	47,911,107	0	0	87,045,100
		Annual % Toward Planned Net Savings	0.01%	22.2%	223.8%	409.2%	26.7%	N/A	N/A	48.0%
		Avg. Gross Savings per Participant (kWh/yr)	175	8,119	6,613	78,178	35,690	23,722	N/A	28,985
		Avg. Net Savings per Participant (kWh/yr)	149	6,901	5,621	33,065	18,068	11,302	N/A	14,730
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.1	3,366.4	3,385.2	5,921.1	4,217.8	49.0	0.0	16,939.6
		Realization Rate Weighted by Measure	100%	100%	100%	79%	85%	85%	N/A	89%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	-1,272.2	-629.0	-7.4	0.0	-1,908.6
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	3,366.4	3,385.2	4,648.9	3,588.8	41.6	0.0	15,031.0
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%	83%	81%	81%	N/A	83%
		Net-To-Gross Adjustment (kW)	0.0	-505.0	-507.8	-980.7	-821.5	-9.1	0.0	-2,824.0
		Net Adjusted Demand Reduction (kW)	0.1	2,861.4	2,877.4	3,807.5	2,843.9	33.3	0.0	12,423.5
		Planned Net Savings (kW)	0.0	4,296.0	684.7	1,858.4	7,165.3	0.0	0.0	14,004.3
		Annual % Toward Planned Net Reduction	N/A	66.6%	420.3%	204.9%	39.7%	N/A	N/A	88.7%
		Avg. Gross Demand Reduction per Participant (kW)	0.02	3.9	5.1	10.3	5.9	3.5	N/A	6.0
		Avg. Net Demand Reduction per Participant (kW)	0.02	3.3	4.3	6.6	4.0	2.4	N/A	4.4
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	2,977.5	21.8	0.0	2,999.3
		Realization Rate Weighted by Measure	-	-	-	-	74%	67%	N/A	74%
		Realization Rate Adjustment (kW)	-	-	-	-	-762.2	-7.3	0.0	-769.4
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	2,215.3	14.6	0.0	2,229.9
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	82%	88%	N/A	82%
		Net-To-Gross Adjustment (kW)	-	-	-	-	-531.3	-2.5	0.0	-533.8
		Net Adjusted Demand Reduction (kW)	-	-	-	-	1,794.1	12.7	0.0	1,806.8
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	4.2	1.6	N/A	4.1
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	2.5	0.9	N/A	2.5
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$7,225	\$472	\$451	\$602	\$592	\$592	\$592	\$592
		\$Admin. per kWh/year (Gross)	\$41	\$0.06	\$0.06	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
		\$Admin. per kW (Gross)	\$351,557	\$122	\$102	\$100	\$99	\$99	\$99	\$99
		\$EM&V per \$Total	10.9%	2.9%	2.4%	1.9%	2.9%	3.3%	3.3%	3.3%
		\$Rebate per Participant (Gross)	\$157	\$5,291	\$5,641	\$8,340	\$8,480	\$8,465	\$8,465	\$8,465

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J.68.2 2023 Virginia Non-Residential Prescriptive Program (Phase VI) Monthly Indicator Tables

VA - Non-Residential Prescriptive Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$165	\$222	\$483	\$171	\$310	\$63	\$68	\$0	\$0	\$0	\$0	\$0	\$1,482	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$2,437	\$3,284	\$7,154	\$2,524	\$4,588	\$938	\$1,008	\$0	\$0	\$0	\$0	\$0	\$21,933	
Costs (\$)	Planned		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Variance		\$2,437	\$3,284	\$7,154	\$2,524	\$4,588	\$938	\$1,008	\$0	\$0	\$0	\$0	\$0	\$21,933	
	Annual % of Planned		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Participants <sup>1</sup>	Total (Gross)		0	0	0	0	0	0	0	0	0	0	0	0	0	
	Planned		0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variance		0	0	0	0	0	0	0	0	0	0	0	0	0	
	Annual % of Planned (Gross)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned Net Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Annual % Toward Planned Net Savings	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	\$592	
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	
		\$Admin. per kW (Gross)	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$99	
		\$EM&V per \$Total	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	
		\$Rebate per Participant (Gross)	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	\$8,465	

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Jun 14 2024



J.68.3 2017–2023 Virginia Non-Residential Prescriptive Program (Phase VI) Measure Indicator Tables

VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	AC Tune-Ups	Total Participants	0	120	421	715	345	6	0	1,607
	AC Tune-Ups	Total Gross Energy Savings (kWh/yr)	0	698,864	1,594,599	3,151,386	5,307,219	55,496	0	10,807,564
	AC Tune-Ups	Realization Rate	N/A	100%	100%	117%	117%	117%	N/A	113%
	AC Tune-Ups	Net-To-Gross Rate	N/A	85%	85%	76%	76%	76%	N/A	78%
	AC Tune-Ups	Net Adjusted Savings (kWh/yr)	0	594,034	1,355,410	2,802,212	4,719,180	49,347	0	9,520,182
	AC Tune-Ups	Avg. Gross Savings per Participant (kWh/yr)	N/A	5,824	3,788	4,408	15,383	9,249	N/A	6,725
	AC Tune-Ups	Avg. Net Savings per Participant (kWh/yr)	N/A	4,950	3,220	3,919	13,679	8,224	N/A	5,924
Installed Summer peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	0.0	1,997.7	2,509.8	2,331.3	2,300.6	28.4	0.0	9,167.8
	AC Tune-Ups	Realization Rate	N/A	100%	100%	99%	99%	99%	N/A	99%
	AC Tune-Ups	Net-To-Gross Rate	N/A	85%	85%	76%	76%	76%	N/A	80%
	AC Tune-Ups	Net Adjusted Demand Reduction (kW)	0.0	1,698.0	2,133.3	1,754.1	1,731.0	21.3	0.0	7,337.8
	AC Tune-Ups	Avg. Gross Demand Reduction per Participant (kW)	N/A	16.6	6.0	3.3	6.7	4.7	N/A	5.7
	AC Tune-Ups	Avg. Net Demand Reduction per Participant (kW)	N/A	14.2	5.1	2.5	5.0	3.6	N/A	4.6
	Installed Winter peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	-	-	-	-	403.6	0.6	0.0
AC Tune-Ups		Realization Rate	-	-	-	-	99%	99%	N/A	99%
AC Tune-Ups		Net-To-Gross Rate	-	-	-	-	76%	76%	N/A	76%
AC Tune-Ups		Net Adjusted Demand Reduction (kW)	-	-	-	-	303.6	0.4	0.0	304.1
AC Tune-Ups		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	1.2	0.09	N/A	1.2
AC Tune-Ups		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.9	0.07	N/A	0.9
Installed kWh/year		Condenser Coil Clean	Total Participants	0	0	12	400	114	2	0
	Condenser Coil Clean	Total Gross Energy Savings (kWh/yr)	0	0	79,204	40,405,247	18,166,538	258,975	0	58,909,963
	Condenser Coil Clean	Realization Rate	N/A	N/A	100%	41%	41%	41%	N/A	41%
	Condenser Coil Clean	Net-To-Gross Rate	N/A	N/A	85%	91%	91%	91%	N/A	91%
	Condenser Coil Clean	Net Adjusted Savings (kWh/yr)	0	0	67,323	15,075,198	6,777,935	96,623	0	22,017,080
	Condenser Coil Clean	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	6,600	101,013	159,356	129,487	N/A	111,572
	Condenser Coil Clean	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	5,610	37,688	59,456	48,312	N/A	41,699
Installed Summer peak kW	Condenser Coil Clean	Total Gross Demand Reduction (kW)	0.0	0.0	5.8	2,929.1	1,315.5	18.8	0.0	4,269.1
	Condenser Coil Clean	Realization Rate	N/A	N/A	100%	62%	62%	62%	N/A	62%
	Condenser Coil Clean	Net-To-Gross Rate	N/A	N/A	85%	91%	91%	91%	N/A	91%
	Condenser Coil Clean	Net Adjusted Demand Reduction (kW)	0.0	0.0	4.9	1,652.6	742.2	10.6	0.0	2,410.3
	Condenser Coil Clean	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.5	7.3	11.5	9.4	N/A	8.1
	Condenser Coil Clean	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.4	4.1	6.5	5.3	N/A	4.6
	Installed Winter peak kW	Condenser Coil Clean	Total Gross Demand Reduction (kW)	-	-	-	-	1,315.5	18.8	0.0
Condenser Coil Clean		Realization Rate	-	-	-	-	62%	62%	N/A	62%
Condenser Coil Clean		Net-To-Gross Rate	-	-	-	-	91%	91%	N/A	91%
Condenser Coil Clean		Net Adjusted Demand Reduction (kW)	-	-	-	-	742.2	10.6	0.0	752.8
Condenser Coil Clean		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	11.5	9.4	N/A	11.5
Condenser Coil Clean		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	6.5	5.3	N/A	6.5
Installed kWh/year		Convection Oven	Total Participants	0	0	2	1	1	0	0
	Convection Oven	Total Gross Energy Savings (kWh/yr)	0	0	488	771	1,845	0	0	3,104
	Convection Oven	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	Convection Oven	Net-To-Gross Rate	N/A	N/A	85%	85%	85%	N/A	N/A	85%
	Convection Oven	Net Adjusted Savings (kWh/yr)	0	0	415	655	1,568	0	0	2,638
	Convection Oven	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	244	771	1,845	N/A	N/A	776
	Convection Oven	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	208	655	1,568	N/A	N/A	660
Installed Summer peak kW	Convection Oven	Total Gross Demand Reduction (kW)	0.0	0.0	0.5	0.1	0.4	0.0	0.0	1.0
	Convection Oven	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	Convection Oven	Net-To-Gross Rate	N/A	N/A	85%	85%	85%	N/A	N/A	85%
	Convection Oven	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.4	0.1	0.4	0.0	0.0	0.9
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.1	0.4	N/A	N/A	0.3
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.1	0.4	N/A	N/A	0.2
	Installed Winter peak kW	Convection Oven	Total Gross Demand Reduction (kW)	-	-	-	-	0.4	0.0	0.0

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VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Convection Oven	Realization Rate	-	-	-	-	100%	N/A	N/A	100%
	Convection Oven	Net-To-Gross Rate	-	-	-	-	85%	N/A	N/A	85%
	Convection Oven	Net Adjusted Demand Reduction (kW)	-	-	-	-	0.4	0.0	0.0	0.4
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.4	N/A	N/A	0.4
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.4	N/A	N/A	0.4
	Door Closer	Total Participants	1	287	47	3	6	0	0	344
Installed kWh/year	Door Closer	Total Gross Energy Savings (kWh/yr)	44	44,045	5,182	305	398	0	0	49,954
	Door Closer	Realization Rate	100%	100%	100%	89%	89%	N/A	N/A	100%
	Door Closer	Net-To-Gross Rate	85%	85%	85%	81%	81%	N/A	N/A	85%
	Door Closer	Net Adjusted Savings (kWh/yr)	37	37,438	4,405	220	280	0	0	42,380
	Door Closer	Avg. Gross Savings per Participant (kWh/yr)	44	153	110	102	65	N/A	N/A	145
	Door Closer	Avg. Net Savings per Participant (kWh/yr)	37	130	94	73	47	N/A	N/A	123
Installed Summer peak kW	Door Closer	Total Gross Demand Reduction (kW)	0.0	5.0	0.6	0.0	0.0	0.0	0.0	5.7
	Door Closer	Realization Rate	100%	100%	100%	77%	77%	N/A	N/A	100%
	Door Closer	Net-To-Gross Rate	85%	85%	85%	81%	81%	N/A	N/A	85%
	Door Closer	Net Adjusted Demand Reduction (kW)	0.0	4.2	0.5	0.0	0.0	0.0	0.0	4.8
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.02	0.01	0.01	0.01	N/A	N/A	0.02
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	0.00	0.01	0.01	0.01	0.00	N/A	N/A	0.01
Installed Winter peak kW	Door Closer	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0	0.0
	Door Closer	Realization Rate	-	-	-	-	77%	N/A	N/A	77%
	Door Closer	Net-To-Gross Rate	-	-	-	-	81%	N/A	N/A	81%
	Door Closer	Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0	0.0
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.01	N/A	N/A	0.01
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.00	N/A	N/A	0.00
	Door Gasket	Total Participants	4	657	232	132	487	10	0	1,522
Installed kWh/year	Door Gasket	Total Gross Energy Savings (kWh/yr)	655	3,298,531	956,604	180,571	690,708	13,150	0	5,140,220
	Door Gasket	Realization Rate	100%	100%	100%	107%	107%	107%	N/A	101%
	Door Gasket	Net-To-Gross Rate	85%	85%	85%	68%	68%	68%	N/A	82%
	Door Gasket	Net Adjusted Savings (kWh/yr)	557	2,803,752	813,113	131,384	502,559	9,568	0	4,260,933
	Door Gasket	Avg. Gross Savings per Participant (kWh/yr)	164	5,021	4,123	1,368	1,418	1,315	N/A	3,377
	Door Gasket	Avg. Net Savings per Participant (kWh/yr)	139	4,268	3,505	995	1,032	957	N/A	2,800
Installed Summer peak kW	Door Gasket	Total Gross Demand Reduction (kW)	0.1	377.1	108.6	20.7	79.0	1.5	0.0	587.1
	Door Gasket	Realization Rate	100%	100%	100%	107%	107%	107%	N/A	101%
	Door Gasket	Net-To-Gross Rate	85%	85%	85%	68%	68%	68%	N/A	82%
	Door Gasket	Net Adjusted Demand Reduction (kW)	0.1	320.5	92.5	15.0	57.5	1.1	0.0	486.7
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.6	0.5	0.2	0.2	0.2	N/A	0.4
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	0.02	0.5	0.4	0.1	0.1	0.1	N/A	0.3
Installed Winter peak kW	Door Gasket	Total Gross Demand Reduction (kW)	-	-	-	-	79.0	1.5	0.0	80.5
	Door Gasket	Realization Rate	-	-	-	-	107%	107%	N/A	107%
	Door Gasket	Net-To-Gross Rate	-	-	-	-	68%	68%	N/A	68%
	Door Gasket	Net Adjusted Demand Reduction (kW)	-	-	-	-	57.5	1.1	0.0	58.6
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.2	0.2	N/A	0.2
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.1	0.1	N/A	0.1
	Duct Test and Seal	Total Participants	0	200	271	352	58	2	0	883
Installed kWh/year	Duct Test and Seal	Total Gross Energy Savings (kWh/yr)	0	2,022,779	1,525,020	885,776	788,624	4,483	0	5,226,683
	Duct Test and Seal	Realization Rate	N/A	100%	100%	80%	80%	80%	N/A	94%
	Duct Test and Seal	Net-To-Gross Rate	N/A	85%	85%	75%	75%	75%	N/A	82%
	Duct Test and Seal	Net Adjusted Savings (kWh/yr)	0	1,719,362	1,296,267	531,466	473,174	2,690	0	4,022,960
	Duct Test and Seal	Avg. Gross Savings per Participant (kWh/yr)	N/A	10,114	5,627	2,516	13,597	2,241	N/A	5,919
	Duct Test and Seal	Avg. Net Savings per Participant (kWh/yr)	N/A	8,597	4,783	1,510	8,158	1,345	N/A	4,556
Installed Summer peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	0.0	892.2	724.0	590.6	494.6	0.4	0.0	2,701.7
	Duct Test and Seal	Realization Rate	N/A	100%	100%	77%	77%	77%	N/A	91%

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VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Duct Test and Seal	Net-To-Gross Rate	N/A	85%	85%	75%	75%	75%	N/A	81%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	0.0	758.3	615.4	341.1	285.6	0.2	0.0	2,000.7
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	N/A	4.5	2.7	1.7	8.5	0.2	N/A	3.1
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	N/A	3.8	2.3	1.0	4.9	0.1	N/A	2.3
Installed Winter peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	-	-	-	-	1,155.9	1.0	0.0	1,156.9
	Duct Test and Seal	Realization Rate	-	-	-	-	77%	77%	N/A	77%
	Duct Test and Seal	Net-To-Gross Rate	-	-	-	-	75%	75%	N/A	75%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	-	-	-	-	667.5	0.6	0.0	668.1
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	19.9	0.5	N/A	19.3
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	11.5	0.3	N/A	11.1
Installed kWh/year	ECM at Evaporator Fan	Total Participants	0	0	8	17	22	0	0	47
	ECM at Evaporator Fan	Total Gross Energy Savings (kWh/yr)	0	0	37,703	96,581	114,282	0	0	248,565
	ECM at Evaporator Fan	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	ECM at Evaporator Fan	Net-To-Gross Rate	N/A	N/A	85%	98%	98%	N/A	N/A	96%
	ECM at Evaporator Fan	Net Adjusted Savings (kWh/yr)	0	0	32,047	94,649	111,996	0	0	238,693
	ECM at Evaporator Fan	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	4,713	5,681	5,195	N/A	N/A	5,289
	ECM at Evaporator Fan	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	4,066	5,568	5,091	N/A	N/A	5,079
Installed Summer peak kW	ECM at Evaporator Fan	Total Gross Demand Reduction (kW)	0.0	0.0	4.3	11.0	18.4	0.0	0.0	33.8
	ECM at Evaporator Fan	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	ECM at Evaporator Fan	Net-To-Gross Rate	N/A	N/A	85%	98%	98%	N/A	N/A	96%
	ECM at Evaporator Fan	Net Adjusted Demand Reduction (kW)	0.0	0.0	3.7	10.8	18.1	0.0	0.0	32.5
	ECM at Evaporator Fan	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.5	0.6	0.8	N/A	N/A	0.7
	ECM at Evaporator Fan	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.5	0.6	0.8	N/A	N/A	0.7
Installed Winter peak kW	ECM at Evaporator Fan	Total Gross Demand Reduction (kW)	-	-	-	-	18.4	0.0	0.0	18.4
	ECM at Evaporator Fan	Realization Rate	-	-	-	-	100%	N/A	N/A	100%
	ECM at Evaporator Fan	Net-To-Gross Rate	-	-	-	-	98%	N/A	N/A	98%
	ECM at Evaporator Fan	Net Adjusted Demand Reduction (kW)	-	-	-	-	18.1	0.0	0.0	18.1
	ECM at Evaporator Fan	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.8	N/A	N/A	0.8
	ECM at Evaporator Fan	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.8	N/A	N/A	0.8
Installed kWh/year	Electric Fryer	Total Participants	0	0	14	6	0	0	0	20
	Electric Fryer	Total Gross Energy Savings (kWh/yr)	0	0	23,290	16,003	0	0	0	39,294
	Electric Fryer	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	85%	85%	N/A	N/A	N/A	85%
	Electric Fryer	Net Adjusted Savings (kWh/yr)	0	0	19,797	13,603	0	0	0	33,400
	Electric Fryer	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,664	2,667	N/A	N/A	N/A	1,965
	Electric Fryer	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,414	2,267	N/A	N/A	N/A	1,670
Installed Summer peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	0.0	0.0	4.3	2.7	0.0	0.0	0.0	7.0
	Electric Fryer	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	85%	85%	N/A	N/A	N/A	85%
	Electric Fryer	Net Adjusted Demand Reduction (kW)	0.0	0.0	3.7	2.3	0.0	0.0	0.0	6.0
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.3	0.4	N/A	N/A	N/A	0.4
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.3	0.4	N/A	N/A	N/A	0.3
Installed Winter peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Electric Fryer	Realization Rate	-	-	-	-	-	-	-	N/A
	Electric Fryer	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Electric Fryer	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
Installed kWh/year	Evaporator Fan Control (Cooler and Freezer)	Total Participants	0	0	1	0	0	0	0	1
	Evaporator Fan Control (Cooler and Freezer)	Total Gross Energy Savings (kWh/yr)	0	0	27,937	0	0	0	0	27,937
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	N/A	N/A	85%	N/A	N/A	N/A	N/A	85%



VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
Evaporator Fan Control (Cooler and Freezer)	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Savings (kWh/yr)	0	0	23,746	0	0	0	0	23,746
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	27,937	N/A	N/A	N/A	N/A	27,937
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	23,746	N/A	N/A	N/A	N/A	23,746
Installed Summer peak kW	Evaporator Fan Control (Cooler and Freezer)	Total Gross Demand Reduction (kW)	0.0	0.0	2.9	0.0	0.0	0.0	0.0	2.9
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	N/A	N/A	85%	N/A	N/A	N/A	N/A	85%
	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Demand Reduction (kW)	0.0	0.0	2.5	0.0	0.0	0.0	0.0	2.5
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	2.9	N/A	N/A	N/A	N/A	2.9
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.5	N/A	N/A	N/A	N/A	2.5
	Evaporator Fan Control (Cooler and Freezer)									
Installed Winter peak kW	Evaporator Fan Control (Cooler and Freezer)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	-	-	-	-	-	-	-	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Evaporator Fan Control (Cooler and Freezer)									
Freezer and Refrigerator	Freezer and Refrigerator	Total Participants	0	0	37	13	3	0	0	53
	Freezer and Refrigerator	Total Gross Energy Savings (kWh/yr)	0	0	39,611	7,258	6,258	0	0	53,126
	Freezer and Refrigerator	Realization Rate	N/A	N/A	100%	116%	116%	N/A	N/A	104%
	Freezer and Refrigerator	Net-To-Gross Rate	N/A	N/A	85%	68%	68%	N/A	N/A	81%
	Freezer and Refrigerator	Net Adjusted Savings (kWh/yr)	0	0	33,669	5,725	4,936	0	0	44,330
	Freezer and Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,071	558	2,068	N/A	N/A	1,002
	Freezer and Refrigerator	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	910	440	1,645	N/A	N/A	836
Installed Summer peak kW	Freezer and Refrigerator	Total Gross Demand Reduction (kW)	0.0	0.0	5.2	1.0	0.8	0.0	0.0	7.0
	Freezer and Refrigerator	Realization Rate	N/A	N/A	100%	116%	116%	N/A	N/A	104%
	Freezer and Refrigerator	Net-To-Gross Rate	N/A	N/A	85%	68%	68%	N/A	N/A	81%
	Freezer and Refrigerator	Net Adjusted Demand Reduction (kW)	0.0	0.0	4.4	0.8	0.6	0.0	0.0	5.8
	Freezer and Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.1	0.07	0.3	N/A	N/A	0.1
	Freezer and Refrigerator	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.1	0.06	0.2	N/A	N/A	0.1
	Freezer and Refrigerator									
Installed Winter peak kW	Freezer and Refrigerator	Total Gross Demand Reduction (kW)	-	-	-	-	0.8	0.0	0.0	0.8
	Freezer and Refrigerator	Realization Rate	-	-	-	-	116%	N/A	N/A	116%
	Freezer and Refrigerator	Net-To-Gross Rate	-	-	-	-	68%	N/A	N/A	68%
	Freezer and Refrigerator	Net Adjusted Demand Reduction (kW)	-	-	-	-	0.6	0.0	0.0	0.6
	Freezer and Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.3	N/A	N/A	0.3
	Freezer and Refrigerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.2	N/A	N/A	0.2
	Freezer and Refrigerator									
Griddle	Griddle	Total Participants	0	0	0	1	0	0	0	1
	Griddle	Total Gross Energy Savings (kWh/yr)	0	0	0	4,136	0	0	0	4,136
	Griddle	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%
	Griddle	Net Adjusted Savings (kWh/yr)	0	0	0	3,515	0	0	0	3,515
	Griddle	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	4,136	N/A	N/A	N/A	4,136
	Griddle	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	3,515	N/A	N/A	N/A	3,515
Installed Summer peak kW	Griddle	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6
	Griddle	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%
	Griddle	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.6	N/A	N/A	N/A	0.6
	Griddle	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.5	N/A	N/A	N/A	0.5
	Griddle									
Installed Winter peak kW	Griddle	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Griddle	Realization Rate	-	-	-	-	-	-	-	N/A
	Griddle	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Griddle	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-





VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
	Griddle	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Hot Food Holder	Total Participants	0	0	16	2	0	0	0	18
Installed kWh/year	Hot Food Holder	Total Gross Energy Savings (kWh/yr)	0	0	40,986	819	0	0	0	41,806
	Hot Food Holder	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Hot Food Holder	Net-To-Gross Rate	N/A	N/A	85%	49%	N/A	N/A	N/A	84%
	Hot Food Holder	Net Adjusted Savings (kWh/yr)	0	0	34,838	402	0	0	0	35,240
	Hot Food Holder	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	2,562	410	N/A	N/A	N/A	2,323
	Hot Food Holder	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	2,177	201	N/A	N/A	N/A	1,958
Installed Summer peak kW	Hot Food Holder	Total Gross Demand Reduction (kW)	0.0	0.0	11.3	0.2	0.0	0.0	0.0	11.4
	Hot Food Holder	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Hot Food Holder	Net-To-Gross Rate	N/A	N/A	85%	49%	N/A	N/A	N/A	84%
	Hot Food Holder	Net Adjusted Demand Reduction (kW)	0.0	0.0	9.6	0.1	0.0	0.0	0.0	9.7
	Hot Food Holder	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.7	0.08	N/A	N/A	N/A	0.6
	Hot Food Holder	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.6	0.04	N/A	N/A	N/A	0.5
Installed Winter peak kW	Hot Food Holder	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Hot Food Holder	Realization Rate	-	-	-	-	-	-	-	N/A
	Hot Food Holder	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Hot Food Holder	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Hot Food Holder	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Hot Food Holder	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Ice Maker	Total Participants	0	0	8	8	0	0	0	16
Installed kWh/year	Ice Maker	Total Gross Energy Savings (kWh/yr)	0	0	13,746	23,064	0	0	0	36,810
	Ice Maker	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Ice Maker	Net-To-Gross Rate	N/A	N/A	85%	51%	N/A	N/A	N/A	64%
	Ice Maker	Net Adjusted Savings (kWh/yr)	0	0	11,684	11,763	0	0	0	23,447
	Ice Maker	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,718	2,883	N/A	N/A	N/A	2,301
	Ice Maker	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,461	1,470	N/A	N/A	N/A	1,465
Installed Summer peak kW	Ice Maker	Total Gross Demand Reduction (kW)	0.0	0.0	1.6	2.6	0.0	0.0	0.0	4.2
	Ice Maker	Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
	Ice Maker	Net-To-Gross Rate	N/A	N/A	85%	51%	N/A	N/A	N/A	64%
	Ice Maker	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.3	1.3	0.0	0.0	0.0	2.7
	Ice Maker	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.3	N/A	N/A	N/A	0.3
	Ice Maker	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2	N/A	N/A	N/A	0.2
Installed Winter peak kW	Ice Maker	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Ice Maker	Realization Rate	-	-	-	-	-	-	-	N/A
	Ice Maker	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
	Ice Maker	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
	Ice Maker	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Ice Maker	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
	Low/No Sweat Door Film	Total Participants	0	0	1	4	3	0	0	8
Installed kWh/year	Low/No Sweat Door Film	Total Gross Energy Savings (kWh/yr)	0	0	731	226,459	188,626	0	0	415,817
	Low/No Sweat Door Film	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	Low/No Sweat Door Film	Net-To-Gross Rate	N/A	N/A	85%	94%	94%	N/A	N/A	94%
	Low/No Sweat Door Film	Net Adjusted Savings (kWh/yr)	0	0	621	212,872	177,309	0	0	390,802
	Low/No Sweat Door Film	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	731	56,615	62,875	N/A	N/A	51,977
	Low/No Sweat Door Film	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	621	53,218	59,103	N/A	N/A	48,850
Installed Summer peak kW	Low/No Sweat Door Film	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	5.4	4.5	0.0	0.0	10.0
	Low/No Sweat Door Film	Realization Rate	N/A	N/A	100%	100%	100%	N/A	N/A	100%
	Low/No Sweat Door Film	Net-To-Gross Rate	N/A	N/A	85%	94%	94%	N/A	N/A	94%
	Low/No Sweat Door Film	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	5.1	4.3	0.0	0.0	9.4
	Low/No Sweat Door Film	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.02	1.4	1.5	N/A	N/A	1.2
	Low/No Sweat Door Film	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.01	1.3	1.4	N/A	N/A	1.2



VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total
Installed Winter peak kW	Low/No Sweat Door Film	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0	0.0
		Realization Rate	-	-	-	-	N/A	N/A	N/A	N/A
		Net-To-Gross Rate	-	-	-	-	N/A	N/A	N/A	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0	0.0	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.0	N/A	N/A	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.0	N/A	N/A	-
		Night Cover	Total Participants	0	14	3	0	1	0	0
Installed kWh/year	Night Cover	Total Gross Energy Savings (kWh/yr)	0	131,356	22,050	0	5,670	0	0	159,076
		Realization Rate	N/A	100%	100%	N/A	100%	N/A	N/A	100%
		Net-To-Gross Rate	N/A	85%	85%	N/A	85%	N/A	N/A	85%
		Net Adjusted Savings (kWh/yr)	0	111,652	18,743	0	4,820	0	0	135,214
		Avg. Gross Savings per Participant (kWh/yr)	N/A	9,383	7,350	N/A	5,670	N/A	N/A	8,838
		Avg. Net Savings per Participant (kWh/yr)	N/A	7,975	6,248	N/A	4,820	N/A	N/A	7,512
		Night Cover	Total Participants	0	0	0	0	0	0	0
Installed Summer peak kW	Night Cover	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	N/A	0.0	N/A	N/A	0.0
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	N/A	0.0	N/A	N/A	0.0
		Night Cover	Total Participants	0	0	1	1	0	0	0
Installed kWh/year	Steam Cooker	Total Gross Energy Savings (kWh/yr)	0	0	9,344	10,404	0	0	0	19,748
		Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
		Net-To-Gross Rate	N/A	N/A	85%	85%	N/A	N/A	N/A	85%
		Net Adjusted Savings (kWh/yr)	0	0	7,942	8,844	0	0	0	16,786
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	9,344	10,404	N/A	N/A	N/A	9,874
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	7,942	8,844	N/A	N/A	N/A	8,393
		Steam Cooker	Total Participants	0	0	3	3	0	0	0
Installed Summer peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	0.0	0.0	3.1	3.6	0.0	0.0	0.0	6.7
		Realization Rate	N/A	N/A	100%	100%	N/A	N/A	N/A	100%
		Net-To-Gross Rate	N/A	N/A	85%	85%	N/A	N/A	N/A	85%
		Net Adjusted Demand Reduction (kW)	0.0	0.0	2.6	3.0	0.0	0.0	0.0	5.7
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	3.1	3.6	N/A	N/A	N/A	3.3
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.6	3.0	N/A	N/A	N/A	2.8
		Steam Cooker	Total Participants	0	0	0	0	0	0	0
Installed Winter peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Realization Rate	-	-	-	-	-	-	-	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-
		Steam Cooker	Total Participants	0	291	41	0	6	0	0
Installed kWh/year	Strip Curtain	Total Gross Energy Savings (kWh/yr)	0	827,594	27,451	0	33,753	0	0	888,798
		Realization Rate	N/A	100%	100%	N/A	151%	N/A	N/A	102%
		Net-To-Gross Rate	N/A	85%	85%	N/A	72%	N/A	N/A	85%
		Net Adjusted Savings (kWh/yr)	0	703,455	23,333	0	36,696	0	0	763,485
		Avg. Gross Savings per Participant (kWh/yr)	N/A	2,844	670	N/A	5,626	N/A	N/A	2,630
		Avg. Net Savings per Participant (kWh/yr)	N/A	2,417	569	N/A	6,116	N/A	N/A	2,259
		Strip Curtain	Total Participants	0	0	0	0	0	0	0

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VA - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2023	
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	
Installed Summer peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	0.0	94.5	3.1	0.0	3.9	0.0	0.0	101.5	
		Realization Rate	N/A	100%	100%	N/A	151%	N/A	N/A	102%	
		Net-To-Gross Rate	N/A	85%	85%	N/A	72%	N/A	N/A	85%	
		Net Adjusted Demand Reduction (kW)	0.0	80.3	2.7	0.0	4.2	0.0	0.0	87.2	
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	0.08	N/A	0.6	N/A	N/A	0.3	
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.06	N/A	0.7	N/A	N/A	0.3	
Installed Winter peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	-	-	-	-	3.9	0.0	0.0	3.9	
		Realization Rate	-	-	-	-	151%	N/A	N/A	151%	
		Net-To-Gross Rate	-	-	-	-	72%	N/A	N/A	72%	
		Net Adjusted Demand Reduction (kW)	-	-	-	-	4.2	0.0	0.0	4.2	
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.6	N/A	N/A	0.6	
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.7	N/A	N/A	0.7	
Installed kWh/year	VSDs at Kitchen Exhaust Fan	Total Participants	0	0	0	3	0	0	0	3	
		Total Gross Energy Savings (kWh/yr)	0	0	0	100,013	0	0	0	100,013	
		Realization Rate	N/A	N/A	N/A	186%	N/A	N/A	N/A	186%	
		Net-To-Gross Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	
		Net Adjusted Savings (kWh/yr)	0	0	0	186,024	0	0	0	186,024	
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	33,338	N/A	N/A	N/A	33,338	
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	62,008	N/A	N/A	N/A	62,008	
Installed Summer peak kW	VSDs at Kitchen Exhaust Fan	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	22.2	0.0	0.0	0.0	22.2	
		Realization Rate	N/A	N/A	N/A	93%	N/A	N/A	N/A	93%	
		Net-To-Gross Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	20.6	0.0	0.0	0.0	20.6	
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	7.4	N/A	N/A	N/A	7.4	
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	6.9	N/A	N/A	N/A	6.9	
Installed Winter peak kW	VSDs at Kitchen Exhaust Fan	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	
		Realization Rate	-	-	-	-	-	-	-	-	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-



J.68.4 2017–2023 Virginia Non-Residential Prescriptive Program (Phase VI) Comparison of Savings to Usage by Rate Schedule

Program_Acronym	Rate	Rate_Schedule	AverageNetImpactPerPart	Net Systemwide Planned Savings (kWh/year)	Net Adjusted Savings as Percent of Planned Savings	Average Annual Usage (kWh/year)	Net Adjusted Savings as Percent of Average Annual Usage
CNRP	105	Schedule 5	7076.812672	25024.19772	0.282798783	54044.91726	0.130943168
CNRP	105	Schedule 5	7076.812672	109636.4	0.064548021	54044.91726	0.130943168
CNRP	108	Schedule 5C	3004.140215	25024.19772	0.120049412	54288.73985	0.055336341
CNRP	108	Schedule 5C	3004.140215	109636.4	0.027400938	54288.73985	0.055336341
CNRP	109	Schedule 5P	3966.974226	25024.19772	0.158525531	227958.3333	0.01740219
CNRP	109	Schedule 5P	3966.974226	109636.4	0.036183003	227958.3333	0.01740219
CNRP	110	Schedule GS-1	2333.908712	25024.19772	0.093266075	25717.7424	0.090750917
CNRP	110	Schedule GS-1	2333.908712	109636.4	0.021287718	25717.7424	0.090750917
CNRP	114	Schedule GS-2T	23597.20766	25024.19772	0.942975592	541550.383	0.04357343
CNRP	114	Schedule GS-2T	23597.20766	109636.4	0.215231508	541550.383	0.04357343
CNRP	117	Schedule GS-3	60856.04594	25024.19772	2.431887991	7105430.618	0.008564723
CNRP	117	Schedule GS-3	60856.04594	109636.4	0.555071545	7105430.618	0.008564723
CNRP	120	Schedule GS-4	146541.3433	25024.19772	5.85598567	79519603.45	0.001842833
CNRP	120	Schedule GS-4	146541.3433	109636.4	1.33661214	79519603.45	0.001842833
CNRP	126	Schedule 6TS	41808.59815	25024.19772	1.670726815	6790185.185	0.00615721
CNRP	126	Schedule 6TS	41808.59815	109636.4	0.381338663	6790185.185	0.00615721
CNRP	129	Schedule 7	1084.516444	25024.19772	0.04333871	31216.0804	0.034742236
CNRP	129	Schedule 7	1084.516444	109636.4	0.009891938	31216.0804	0.034742236
CNRP	130	Schedule 10	44904.6972	25024.19772	1.794451023	3584793.852	0.012526438
CNRP	130	Schedule 10	44904.6972	109636.4	0.409578363	3584793.852	0.012526438
CNRP	168	Schedule 5	7076.812672	25024.19772	0.282798783	Not Available	Not Available
CNRP	168	Schedule 5	7076.812672	109636.4	0.064548021	Not Available	Not Available
CNRP	169	Schedule 5C	3004.140215	25024.19772	0.120049412	Not Available	Not Available
CNRP	169	Schedule 5C	3004.140215	109636.4	0.027400938	Not Available	Not Available
CNRP	170	Schedule 5P	3966.974226	25024.19772	0.158525531	Not Available	Not Available
CNRP	170	Schedule 5P	3966.974226	109636.4	0.036183003	Not Available	Not Available
CNRP	182	Schedule 7	1084.516444	25024.19772	0.04333871	Not Available	Not Available
CNRP	182	Schedule 7	1084.516444	109636.4	0.009891938	Not Available	Not Available
CNRP	183	Schedule 10	44904.6972	25024.19772	1.794451023	Not Available	Not Available
CNRP	183	Schedule 10	44904.6972	109636.4	0.409578363	Not Available	Not Available
CNRP	227	Schedule GS-2	11138.3945	25024.19772	0.445104959	329494.9816	0.033804444
CNRP	227	Schedule GS-2	11138.3945	109636.4	0.101593946	329494.9816	0.033804444
CNRP	239	Schedule DP-2	1327.004857	25024.19772	0.053028867	427617.0213	0.003103255
CNRP	239	Schedule DP-2	1327.004857	109636.4	0.012103689	427617.0213	0.003103255
CNRP	261	Schedule 10	44904.6972	25024.19772	1.794451023	Not Available	Not Available
CNRP	261	Schedule 10	44904.6972	109636.4	0.409578363	Not Available	Not Available
CNRP	262	Schedule 10	44904.6972	25024.19772	1.794451023	Not Available	Not Available
CNRP	262	Schedule 10	44904.6972	109636.4	0.409578363	Not Available	Not Available
CNRP	All Codes	All Rates	14730.46007	25024.19772	0.588648645	Not Available	Not Available
CNRP	All Codes	All Rates	14730.46007	109636.4	0.134357386	Not Available	Not Available



J.68.5 2017–2023 Virginia Non-Residential Prescriptive Program (Phase VI) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
6	Non-Residential Prescriptive	2014	VA	PUE-2014-00071	2.96	2.35	2.71	0.96
6	Non-Residential Prescriptive	2015	VA	PUE-2015-00089	N/A	N/A	N/A	N/A
6	Non-Residential Prescriptive	2016	VA	PUE-2016-00111	4.26	2.80	2.65	0.62
6	Non-Residential Prescriptive	2018	VA	PUR-2018-00168	3.27	2.22	1.75	0.58
6	Non-Residential Prescriptive	2019	VA	PUR-2019-00201	0.82	0.26	0.20	0.21
6	Non-Residential Prescriptive	2020	VA	PUR-2020-00274	1.08	0.20	0.15	0.14
6	Non-Residential Prescriptive	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
6	Non-Residential Prescriptive	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
6	Non-Residential Prescriptive	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
6	Non-Residential Prescriptive	2024	VA	EM&V Report				



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K. PROGRAM PERFORMANCE INDICATOR TABLES FOR NORTH CAROLINA

K.1 North Carolina Residential Efficient Products Marketplace Program (Phase VII) 2019-2023

K.1.1 2019-2023 North Carolina Residential Efficient Products Marketplace Program (Phase VII) Annual Indicator Tables

NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate						
O&M (\$)		Direct Implementation						
O&M (\$)		Direct EM&V						
O&M (\$)		Indirect Other (Administrative)						
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$238,201	\$386,515	\$308,435	\$157,460	\$1,090,612
Costs (\$)		Planned	\$0	\$425,185	\$440,922	\$633,498	\$638,131	\$2,137,736
Costs (\$)		Variance	\$0	-\$186,984	-\$54,407	-\$325,063	-\$480,670	-\$1,047,124
		Annual % of Planned	N/A	56%	88%	49%	25%	51%
Participants <sup>1</sup>		Total (Gross)	0	86,493	116,668	84,301	542	288,004
		Planned	0	138,728	160,503	175,167	191,322	665,720
		Variance	0	-52,235	-43,835	-90,866	-190,780	-377,716
		Annual % of Planned (Gross)	N/A	62%	73%	48%	0%	43%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	2,707,492	3,582,113	2,828,480	65,245	9,183,330
		Realization Rate Weighted by Measure	N/A	100%	100%	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	2,707,492	3,582,113	2,828,480	65,245	9,183,330
		Net-To-Gross Rate Weighted by Measure	N/A	66%	47%	47%	37%	53%
		Net-To-Gross Adjustment (kWh/yr)	0	-911,011	-1,906,060	-1,501,251	-41,162	-4,359,484
		Net Adjusted Savings (kWh/yr)	0	1,796,481	1,676,053	1,327,228	24,084	4,823,846
		Planned Net Savings (kWh/yr)	0	4,013,827	4,643,845	5,068,119	5,535,533	19,261,325
		Annual % Toward Planned Net Savings	N/A	44.8%	36.1%	26.2%	0.44%	25.0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	31	31	34	120	32
		Avg. Net Savings per Participant (kWh/yr)	N/A	21	14	16	44	17
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	249.1	330.2	260.7	7.7	847.7
		Realization Rate Weighted by Measure	N/A	100%	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	249.1	330.2	260.7	7.7	847.7
		Net-To-Gross Rate Weighted by Measure	N/A	66%	47%	47%	37%	52%
		Net-To-Gross Adjustment (kW)	0.0	-84.1	-175.9	-138.5	-4.8	-403.3
		Net Adjusted Demand Reduction (kW)	0.0	165.0	154.3	122.2	2.9	444.3
		Planned Net Savings (kW)	0.0	51.5	59.5	65.0	71.0	247.0
		Annual % Toward Planned Net Reduction	N/A	320.6%	259.1%	188.0%	4.05%	179.9%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.01	0.00
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.01	0.00
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	686.2	542.9	3.4	1,232.5
		Realization Rate Weighted by Measure	-	-	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	-	-	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	686.2	542.9	3.4	1,232.5
		Net-To-Gross Rate Weighted by Measure	-	-	47%	47%	38%	47%
		Net-To-Gross Adjustment (kW)	-	-	-363.6	-287.1	-2.1	-652.7
		Net Adjusted Demand Reduction (kW)	-	-	322.6	255.9	1.3	579.8
		Planned Net Savings (kW)	0.0	0.0	59.5	65.0	71.0	195.5
		Annual % Toward Planned Net Reduction	-	-	541.8%	393.7%	1.80%	296.5%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	0.01	0.01
		Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$0	\$0	\$0	\$0	\$0
		\$Admin. per kWh/year (Gross)	N/A	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$48	\$52	\$51	\$63	\$63
		\$EM&V per \$Total	N/A	4.1%	4.8%	4.4%	5.4%	5.4%
		\$Rebate per Participant (Gross)	N/A	\$2	\$2	\$2	\$2	\$2

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K.1.2 2023 North Carolina Residential Efficient Products Marketplace Program (Phase VII) Monthly Indicator Tables

NC - Residential Efficient Products Marketplace Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)	Direct Rebate															
O&M (\$)	Direct Implementation															
O&M (\$)	Direct EM&V															
O&M (\$)	Indirect Other (Administrative)		\$1,577	\$2,524	\$1,629	\$405	\$748	\$586	\$331	\$537	\$577	\$578	\$551	\$597	\$10,639	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$23,336	\$37,360	\$24,102	\$5,991	\$11,077	\$8,670	\$4,893	\$7,943	\$8,546	\$8,550	\$8,158	\$8,835	\$157,460	
Costs (\$)	Planned		\$42,542	\$42,542	\$42,542	\$42,542	\$42,542	\$42,542	\$63,813	\$63,813	\$63,813	\$63,813	\$63,813	\$63,813	\$638,131	
Costs (\$)	Variance		-\$19,206	-\$5,182	-\$18,440	-\$36,551	-\$31,465	-\$33,872	-\$58,920	-\$55,870	-\$55,267	-\$55,263	-\$55,655	-\$54,978	-\$480,670	
	Annual % of Planned		3.7%	9.5%	13.3%	14.2%	18.0%	17.3%	18.1%	19.3%	20.7%	22.0%	23.3%	24.7%	25%	
Participants <sup>1</sup>	Total (Gross)		14	19	113	14	81	16	0	52	66	59	50	58	542	
	Planned		15,949	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	15,943	191,322	
	Variance		-15,935	-15,924	-15,830	-15,929	-15,862	-15,927	-15,943	-15,891	-15,877	-15,884	-15,893	-15,885	-190,780	
	Annual % of Planned (Gross)		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	2,198	1,833	12,797	1,600	10,965	2,263	0	4,775	7,199	7,531	6,768	7,317	62,545	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Realization Rate Adjusted Savings (kWh/yr)	2,198	1,833	12,797	1,600	10,965	2,263	0	4,775	7,199	7,531	6,768	7,317	62,545	
		Net-To-Gross Rate Weighted by Measure	41%	38%	35%	33%	39%	40%	N/A	38%	38%	37%	35%	36%	37%	
		Net-To-Gross Adjustment (kWh/yr)	-1,297	-1,134	-8,271	-1,065	-6,699	-1,368	0	-2,951	-4,489	-4,781	-4,412	-4,697	-41,162	
		Net Adjusted Savings (kWh/yr)	901	699	4,526	535	4,266	895	0	1,824	2,710	2,751	2,356	2,620	24,084	
		Planned Net Savings (kWh/yr)	461,454	461,280	461,280	461,280	461,280	461,280	461,280	461,280	461,280	461,280	461,280	461,280	5,535,533	
		Annual % Toward Planned Net Savings	0.02%	0.03%	0.11%	0.12%	0.20%	0.21%	0.21%	0.25%	0.30%	0.35%	0.39%	0.44%	0.44%	
		Avg. Gross Savings per Participant (kWh/yr)	157	96	113	114	135	141	N/A	92	109	128	135	126	120	
		Avg. Net Savings per Participant (kWh/yr)	64	37	40	38	53	56	N/A	35	41	47	47	45	44	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.2	0.2	1.5	0.2	1.3	0.3	0.0	0.6	0.9	0.9	0.8	0.8	7.7	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.2	0.2	1.5	0.2	1.3	0.3	0.0	0.6	0.9	0.9	0.8	0.8	7.7	
		Net-To-Gross Rate Weighted by Measure	41%	38%	36%	34%	39%	40%	N/A	39%	38%	38%	35%	36%	37%	
		Net-To-Gross Adjustment (kW)	-0.1	-0.1	-1.0	-0.1	-0.8	-0.2	0.0	-0.4	-0.5	-0.6	-0.5	-0.5	-4.8	
		Net Adjusted Demand Reduction (kW)	0.1	0.1	0.5	0.1	0.5	0.1	0.0	0.2	0.3	0.3	0.3	0.3	2.9	
		Planned Net Savings (kW)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	71.0	
		Annual % Toward Planned Net Reduction	0.14%	0.26%	1.03%	1.11%	1.83%	1.98%	1.98%	2.31%	2.77%	3.25%	3.62%	4.05%	4.05%	
		Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01	0.02	0.02	N/A	0.01	0.01	0.02	0.02	0.01	0.01	
		Avg. Net Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00	0.01	0.01	N/A	0.00	0.00	0.01	0.01	0.01	0.01	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.2	0.1	0.6	0.1	0.6	0.1	0.0	0.2	0.4	0.3	0.3	0.4	3.4	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	N/A	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.2	0.1	0.6	0.1	0.6	0.1	0.0	0.2	0.4	0.3	0.3	0.4	3.4	
		Net-To-Gross Rate Weighted by Measure	45%	38%	35%	33%	41%	42%	N/A	39%	39%	35%	35%	35%	38%	
		Net-To-Gross Adjustment (kW)	-0.1	-0.1	-0.4	-0.1	-0.4	-0.1	0.0	-0.1	-0.2	-0.2	-0.2	-0.2	-2.1	
		Net Adjusted Demand Reduction (kW)	0.1	0.0	0.2	0.0	0.3	0.1	0.0	0.1	0.2	0.1	0.1	0.1	1.3	
		Planned Net Savings (kW)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	71.0	
		Annual % Toward Planned Net Reduction	0.09%	0.14%	0.45%	0.49%	0.86%	0.94%	0.94%	1.07%	1.29%	1.46%	1.63%	1.80%	1.80%	
		Avg. Gross Demand Reduction per Participant (kW)	0.01	0.00	0.01	0.01	0.01	0.01	N/A	0.00	0.01	0.01	0.01	0.01	0.01	
		Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00	0.00	0.00	N/A	0.00	0.00	0.00	0.00	0.00	0.00	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$Admin. per kWh/year (Gross)	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	
		\$Admin. per kW (Gross)	\$53	\$56	\$58	\$58	\$59	\$60	\$61	\$62	\$62	\$62	\$63	\$63	\$63	
		\$EM&V per \$Total	4.4%	4.4%	4.6%	4.7%	4.8%	5.1%	5.2%	5.2%	5.2%	5.3%	5.3%	5.4%	5.4%	
		\$Rebate per Participant (Gross)	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	

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K.1.3 2019-2023 North Carolina Residential Efficient Products Marketplace Program (Phase VII) Measure Indicator Tables

NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
Installed kWh/year	A-Line	Total Participants	0	0	16	2,056	0	2,072
	A-Line	Total Gross Energy Savings (kWh/yr)	0	0	584	123,445	0	124,029
	A-Line	Realization Rate	N/A	N/A	100%	100%	N/A	100%
	A-Line	Net-To-Gross Rate	N/A	N/A	52%	52%	N/A	52%
	A-Line	Net Adjusted Savings (kWh/yr)	0	0	304	64,191	0	64,495
	A-Line	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	36	60	N/A	60
	A-Line	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	19	31	N/A	31
Installed Summer peak kW	A-Line	Total Gross Demand Reduction (kW)	0.0	0.0	0.1	11.3	0.0	11.3
	A-Line	Realization Rate	N/A	N/A	100%	100%	N/A	100%
	A-Line	Net-To-Gross Rate	N/A	N/A	52%	52%	N/A	52%
	A-Line	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	5.9	0.0	5.9
	A-Line	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.00	0.01	N/A	0.01
	A-Line	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.00	0.00	N/A	0.00
Installed Winter peak kW	A-Line	Total Gross Demand Reduction (kW)	-	-	0.1	24.1	0.0	24.3
	A-Line	Realization Rate	-	-	100%	100%	N/A	100%
	A-Line	Net-To-Gross Rate	-	-	52%	52%	N/A	52%
	A-Line	Net Adjusted Demand Reduction (kW)	-	-	0.1	12.6	0.0	12.6
	A-Line	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	N/A	0.01
	A-Line	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.01	N/A	0.01
Installed kWh/year	ENERGY STAR Air Purifier	Total Participants	0	10	11	17	20	58
	ENERGY STAR Air Purifier	Total Gross Energy Savings (kWh/yr)	0	6,630	1,408	1,879	4,127	14,044
	ENERGY STAR Air Purifier	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Air Purifier	Net-To-Gross Rate	N/A	69%	54%	54%	54%	61%
	ENERGY STAR Air Purifier	Net Adjusted Savings (kWh/yr)	0	4,575	760	1,015	2,229	8,578
	ENERGY STAR Air Purifier	Avg. Gross Savings per Participant (kWh/yr)	N/A	663	128	111	206	242
	ENERGY STAR Air Purifier	Avg. Net Savings per Participant (kWh/yr)	N/A	457	69	60	111	148
Installed Summer peak kW	ENERGY STAR Air Purifier	Total Gross Demand Reduction (kW)	0.0	0.8	0.2	0.2	0.5	1.6
	ENERGY STAR Air Purifier	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Air Purifier	Net-To-Gross Rate	N/A	69%	54%	54%	54%	61%
	ENERGY STAR Air Purifier	Net Adjusted Demand Reduction (kW)	0.0	0.5	0.1	0.1	0.3	1.0
	ENERGY STAR Air Purifier	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.08	0.01	0.01	0.02	0.03
	ENERGY STAR Air Purifier	Avg. Net Demand Reduction per Participant (kW)	N/A	0.05	0.01	0.01	0.01	0.02
Installed Winter peak kW	ENERGY STAR Air Purifier	Total Gross Demand Reduction (kW)	-	-	0.2	0.2	0.5	0.9
	ENERGY STAR Air Purifier	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Air Purifier	Net-To-Gross Rate	-	-	54%	54%	54%	54%
	ENERGY STAR Air Purifier	Net Adjusted Demand Reduction (kW)	-	-	0.1	0.1	0.3	0.5
	ENERGY STAR Air Purifier	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	0.02	0.02
	ENERGY STAR Air Purifier	Avg. Net Demand Reduction per Participant (kW)	-	-	0.01	0.01	0.01	0.01
Installed kWh/year	ENERGY STAR Clothes Dryer	Total Participants	0	98	168	110	110	486
	ENERGY STAR Clothes Dryer	Total Gross Energy Savings (kWh/yr)	0	17,087	29,620	19,394	19,116	85,218
	ENERGY STAR Clothes Dryer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Clothes Dryer	Net-To-Gross Rate	N/A	42%	38%	38%	38%	39%
	ENERGY STAR Clothes Dryer	Net Adjusted Savings (kWh/yr)	0	7,177	11,256	7,370	7,264	33,066
	ENERGY STAR Clothes Dryer	Avg. Gross Savings per Participant (kWh/yr)	N/A	174	176	176	174	175
	ENERGY STAR Clothes Dryer	Avg. Net Savings per Participant (kWh/yr)	N/A	73	67	67	66	68
Installed Summer peak kW	ENERGY STAR Clothes Dryer	Total Gross Demand Reduction (kW)	0.0	1.7	3.0	1.9	1.9	8.5
	ENERGY STAR Clothes Dryer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Clothes Dryer	Net-To-Gross Rate	N/A	42%	38%	38%	38%	39%
	ENERGY STAR Clothes Dryer	Net Adjusted Demand Reduction (kW)	0.0	0.7	1.1	0.7	0.7	3.3
	ENERGY STAR Clothes Dryer	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02	0.02	0.02
	ENERGY STAR Clothes Dryer	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	ENERGY STAR Clothes Dryer	Total Gross Demand Reduction (kW)	-	-	1.4	0.9	0.9	3.3

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NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	ENERGY STAR Clothes Dryer	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Clothes Dryer	Net-To-Gross Rate	-	-	38%	38%	38%	38%
	ENERGY STAR Clothes Dryer	Net Adjusted Demand Reduction (kW)	-	-	0.5	0.4	0.4	1.2
	ENERGY STAR Clothes Dryer	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	0.01	0.01
	ENERGY STAR Clothes Dryer	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Clothes Washer	Total Participants	0	117	230	154	148	649
Installed kWh/year	ENERGY STAR Clothes Washer	Total Gross Energy Savings (kWh/yr)	0	23,116	45,214	30,676	27,560	126,565
	ENERGY STAR Clothes Washer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Clothes Washer	Net-To-Gross Rate	N/A	44%	32%	32%	32%	34%
	ENERGY STAR Clothes Washer	Net Adjusted Savings (kWh/yr)	0	10,171	14,469	9,816	8,819	43,275
	ENERGY STAR Clothes Washer	Avg. Gross Savings per Participant (kWh/yr)	N/A	198	197	199	186	195
	ENERGY STAR Clothes Washer	Avg. Net Savings per Participant (kWh/yr)	N/A	87	63	64	60	67
Installed Summer peak kW	ENERGY STAR Clothes Washer	Total Gross Demand Reduction (kW)	0.0	2.5	4.9	3.4	3.0	13.9
	ENERGY STAR Clothes Washer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Clothes Washer	Net-To-Gross Rate	N/A	44%	32%	32%	32%	34%
	ENERGY STAR Clothes Washer	Net Adjusted Demand Reduction (kW)	0.0	1.1	1.6	1.1	1.0	4.7
	ENERGY STAR Clothes Washer	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02	0.02	0.02
	ENERGY STAR Clothes Washer	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	ENERGY STAR Clothes Washer	Total Gross Demand Reduction (kW)	-	-	2.4	1.6	1.5	5.5
	ENERGY STAR Clothes Washer	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Clothes Washer	Net-To-Gross Rate	-	-	32%	32%	32%	32%
	ENERGY STAR Clothes Washer	Net Adjusted Demand Reduction (kW)	-	-	0.8	0.5	0.5	1.7
	ENERGY STAR Clothes Washer	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	0.01	0.01
	ENERGY STAR Clothes Washer	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Dehumidifier	Total Participants	0	7	17	16	15	55
Installed kWh/year	ENERGY STAR Dehumidifier	Total Gross Energy Savings (kWh/yr)	0	739	1,808	1,619	1,481	5,647
	ENERGY STAR Dehumidifier	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Dehumidifier	Net-To-Gross Rate	N/A	61%	54%	54%	54%	55%
	ENERGY STAR Dehumidifier	Net Adjusted Savings (kWh/yr)	0	451	977	874	800	3,101
	ENERGY STAR Dehumidifier	Avg. Gross Savings per Participant (kWh/yr)	N/A	106	108	101	99	103
	ENERGY STAR Dehumidifier	Avg. Net Savings per Participant (kWh/yr)	N/A	64	57	55	53	56
Installed Summer peak kW	ENERGY STAR Dehumidifier	Total Gross Demand Reduction (kW)	0.0	0.2	0.4	0.4	0.3	1.3
	ENERGY STAR Dehumidifier	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Dehumidifier	Net-To-Gross Rate	N/A	61%	54%	54%	54%	55%
	ENERGY STAR Dehumidifier	Net Adjusted Demand Reduction (kW)	0.0	0.1	0.2	0.2	0.2	0.7
	ENERGY STAR Dehumidifier	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02	0.02	0.02
	ENERGY STAR Dehumidifier	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01	0.01
Installed Winter peak kW	ENERGY STAR Dehumidifier	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	ENERGY STAR Dehumidifier	Realization Rate	-	-	N/A	N/A	N/A	N/A
	ENERGY STAR Dehumidifier	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	ENERGY STAR Dehumidifier	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	ENERGY STAR Dehumidifier	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	ENERGY STAR Dehumidifier	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	ENERGY STAR Dishwasher	Total Participants	0	94	175	158	114	541
Installed kWh/year	ENERGY STAR Dishwasher	Total Gross Energy Savings (kWh/yr)	0	3,427	6,377	5,784	4,147	19,735
	ENERGY STAR Dishwasher	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Dishwasher	Net-To-Gross Rate	N/A	51%	37%	37%	37%	39%
	ENERGY STAR Dishwasher	Net Adjusted Savings (kWh/yr)	0	1,748	2,359	2,140	1,534	7,782
	ENERGY STAR Dishwasher	Avg. Gross Savings per Participant (kWh/yr)	N/A	36	36	37	36	36
	ENERGY STAR Dishwasher	Avg. Net Savings per Participant (kWh/yr)	N/A	19	13	14	13	14
Installed Summer peak kW	ENERGY STAR Dishwasher	Total Gross Demand Reduction (kW)	0.0	0.4	0.8	0.7	0.5	2.4
	ENERGY STAR Dishwasher	Realization Rate	N/A	100%	100%	100%	100%	100%



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NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	ENERGY STAR Dishwasher	Net-To-Gross Rate	N/A	51%	37%	37%	37%	39%
	ENERGY STAR Dishwasher	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.3	0.3	0.2	1.0
	ENERGY STAR Dishwasher	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00	0.00
	ENERGY STAR Dishwasher	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00	0.00
Installed Winter peak kW	ENERGY STAR Dishwasher	Total Gross Demand Reduction (kW)	-	-	0.2	0.2	0.1	0.5
	ENERGY STAR Dishwasher	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Dishwasher	Net-To-Gross Rate	-	-	37%	37%	37%	37%
	ENERGY STAR Dishwasher	Net Adjusted Demand Reduction (kW)	-	-	0.1	0.1	0.0	0.2
	ENERGY STAR Dishwasher	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Dishwasher	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Freezer	Total Participants	0	2	10	11	9	32
Installed kWh/year	ENERGY STAR Freezer	Total Gross Energy Savings (kWh/yr)	0	110	431	556	435	1,532
	ENERGY STAR Freezer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Freezer	Net-To-Gross Rate	N/A	52%	39%	39%	39%	40%
	ENERGY STAR Freezer	Net Adjusted Savings (kWh/yr)	0	57	168	217	170	612
	ENERGY STAR Freezer	Avg. Gross Savings per Participant (kWh/yr)	N/A	55	43	51	48	48
	ENERGY STAR Freezer	Avg. Net Savings per Participant (kWh/yr)	N/A	29	17	20	19	19
Installed Summer peak kW	ENERGY STAR Freezer	Total Gross Demand Reduction (kW)	0.0	0.0	0.1	0.1	0.1	0.2
	ENERGY STAR Freezer	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Freezer	Net-To-Gross Rate	N/A	52%	39%	39%	39%	40%
	ENERGY STAR Freezer	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.1
	ENERGY STAR Freezer	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01	0.01
	ENERGY STAR Freezer	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00	0.00
Installed Winter peak kW	ENERGY STAR Freezer	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.1
	ENERGY STAR Freezer	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Freezer	Net-To-Gross Rate	-	-	39%	39%	39%	39%
	ENERGY STAR Freezer	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	ENERGY STAR Freezer	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Freezer	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Refrigerator	Total Participants	0	97	213	156	126	592
Installed kWh/year	ENERGY STAR Refrigerator	Total Gross Energy Savings (kWh/yr)	0	6,041	13,431	10,459	8,380	38,311
	ENERGY STAR Refrigerator	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Refrigerator	Net-To-Gross Rate	N/A	39%	39%	39%	39%	39%
	ENERGY STAR Refrigerator	Net Adjusted Savings (kWh/yr)	0	2,356	5,238	4,079	3,268	14,941
	ENERGY STAR Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	62	63	67	67	65
	ENERGY STAR Refrigerator	Avg. Net Savings per Participant (kWh/yr)	N/A	24	25	26	26	25
Installed Summer peak kW	ENERGY STAR Refrigerator	Total Gross Demand Reduction (kW)	0.0	1.0	2.2	1.7	1.4	6.2
	ENERGY STAR Refrigerator	Realization Rate	N/A	100%	100%	100%	100%	100%
	ENERGY STAR Refrigerator	Net-To-Gross Rate	N/A	39%	39%	39%	39%	39%
	ENERGY STAR Refrigerator	Net Adjusted Demand Reduction (kW)	0.0	0.4	0.8	0.7	0.5	2.4
	ENERGY STAR Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01	0.01
	ENERGY STAR Refrigerator	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00	0.00
Installed Winter peak kW	ENERGY STAR Refrigerator	Total Gross Demand Reduction (kW)	-	-	0.6	0.5	0.4	1.5
	ENERGY STAR Refrigerator	Realization Rate	-	-	100%	100%	100%	100%
	ENERGY STAR Refrigerator	Net-To-Gross Rate	-	-	39%	39%	39%	39%
	ENERGY STAR Refrigerator	Net Adjusted Demand Reduction (kW)	-	-	0.2	0.2	0.2	0.6
	ENERGY STAR Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	ENERGY STAR Refrigerator	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	0.00	0.00
	Fixture and Retrofit Kit	Total Participants	0	8,749	11,802	14,874	0	35,425
Installed kWh/year	Fixture and Retrofit Kit	Total Gross Energy Savings (kWh/yr)	0	378,714	471,631	596,056	0	1,446,401
	Fixture and Retrofit Kit	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Fixture and Retrofit Kit	Net-To-Gross Rate	N/A	60%	52%	52%	N/A	54%



NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Fixture and Retrofit Kit	Net Adjusted Savings (kWh/yr)	0	227,229	245,248	309,949	0	782,426
	Fixture and Retrofit Kit	Avg. Gross Savings per Participant (kWh/yr)	N/A	43	40	40	N/A	41
	Fixture and Retrofit Kit	Avg. Net Savings per Participant (kWh/yr)	N/A	26	21	21	N/A	22
Installed Summer peak kW	Fixture and Retrofit Kit	Total Gross Demand Reduction (kW)	0.0	34.6	43.1	54.5	0.0	132.3
	Fixture and Retrofit Kit	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Fixture and Retrofit Kit	Net-To-Gross Rate	N/A	60%	52%	52%	N/A	54%
	Fixture and Retrofit Kit	Net Adjusted Demand Reduction (kW)	0.0	20.8	22.4	28.4	0.0	71.6
	Fixture and Retrofit Kit	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
	Fixture and Retrofit Kit	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	Fixture and Retrofit Kit	Total Gross Demand Reduction (kW)	-	-	92.2	116.6	0.0	208.8
	Fixture and Retrofit Kit	Realization Rate	-	-	100%	100%	N/A	100%
	Fixture and Retrofit Kit	Net-To-Gross Rate	-	-	52%	52%	N/A	52%
	Fixture and Retrofit Kit	Net Adjusted Demand Reduction (kW)	-	-	48.0	60.6	0.0	108.6
	Fixture and Retrofit Kit	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	N/A	0.01
	Fixture and Retrofit Kit	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	N/A	0.00
	Reflector	Total Participants	0	32,818	35,768	20,500	0	89,085
Installed kWh/year	Reflector	Total Gross Energy Savings (kWh/yr)	0	1,190,927	1,270,877	747,548	0	3,209,352
	Reflector	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Reflector	Net-To-Gross Rate	N/A	76%	55%	55%	N/A	63%
	Reflector	Net Adjusted Savings (kWh/yr)	0	905,105	698,982	411,152	0	2,015,238
	Reflector	Avg. Gross Savings per Participant (kWh/yr)	N/A	36	36	36	N/A	36
	Reflector	Avg. Net Savings per Participant (kWh/yr)	N/A	28	20	20	N/A	23
Installed Summer peak kW	Reflector	Total Gross Demand Reduction (kW)	0.0	109.0	116.3	68.4	0.0	293.6
	Reflector	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Reflector	Net-To-Gross Rate	N/A	76%	55%	55%	N/A	63%
	Reflector	Net Adjusted Demand Reduction (kW)	0.0	82.8	63.9	37.6	0.0	184.4
	Reflector	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
	Reflector	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	Reflector	Total Gross Demand Reduction (kW)	-	-	248.6	146.2	0.0	394.8
	Reflector	Realization Rate	-	-	100%	100%	N/A	100%
	Reflector	Net-To-Gross Rate	-	-	55%	55%	N/A	55%
	Reflector	Net Adjusted Demand Reduction (kW)	-	-	136.7	80.4	0.0	217.1
	Reflector	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	0.01	N/A	0.01
	Reflector	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	N/A	0.00
	Specialty	Total Participants	0	44,501	68,259	46,248	0	159,009
Installed kWh/year	Specialty	Total Gross Energy Savings (kWh/yr)	0	1,080,701	1,740,732	1,291,064	0	4,112,497
	Specialty	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Specialty	Net-To-Gross Rate	N/A	59%	40%	40%	N/A	45%
	Specialty	Net Adjusted Savings (kWh/yr)	0	637,614	696,293	516,425	0	1,850,332
	Specialty	Avg. Gross Savings per Participant (kWh/yr)	N/A	24	26	28	N/A	26
	Specialty	Avg. Net Savings per Participant (kWh/yr)	N/A	14	10	11	N/A	12
Installed Summer peak kW	Specialty	Total Gross Demand Reduction (kW)	0.0	98.9	159.3	118.1	0.0	376.2
	Specialty	Realization Rate	N/A	100%	100%	100%	N/A	100%
	Specialty	Net-To-Gross Rate	N/A	59%	40%	40%	N/A	45%
	Specialty	Net Adjusted Demand Reduction (kW)	0.0	58.3	63.7	47.2	0.0	169.3
	Specialty	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
	Specialty	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	N/A	0.00
Installed Winter peak kW	Specialty	Total Gross Demand Reduction (kW)	-	-	340.5	252.5	0.0	593.0
	Specialty	Realization Rate	-	-	100%	100%	N/A	100%
	Specialty	Net-To-Gross Rate	-	-	40%	40%	N/A	40%
	Specialty	Net Adjusted Demand Reduction (kW)	-	-	136.2	101.0	0.0	237.2
	Specialty	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.00	0.01	N/A	0.01
NC - Residential Efficient Products Marketplace Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Specialty	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	0.00	N/A	0.00



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## K.2 North Carolina Residential Energy Efficiency Kits Program (Phase VIII) 2020-2023

### K.2.1 2020-2023 North Carolina Residential Energy Efficiency Kits Program (Phase VIII) Annual Indicator Tables

NC - Residential Kits Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate					
O&M (\$)		Direct Implementation					
O&M (\$)		Direct EM&V					
O&M (\$)		Indirect Other (Administrative)					
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$57,116	\$69,433	\$72,060	\$198,609
Costs (\$)		Planned	\$0	\$121,351	\$122,877	\$117,010	\$361,238
Costs (\$)		Variance	\$0	-\$64,235	-\$53,444	-\$44,950	-\$162,628
		Annual % of Planned	N/A	47%	57%	62%	55%
Participants <sup>1</sup>		Total (Gross)	0	1,264	1,453	1,551	4,268
		Planned	0	1,800	1,800	1,800	5,400
		Variance	0	-536	-347	-249	-1,132
		Annual % of Planned (Gross)	N/A	70%	81%	86%	79%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	159,580	182,428	180,331	522,340
		Realization Rate Weighted by Measure	N/A	100%	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	159,580	182,428	180,331	522,340
		Net-To-Gross Rate Weighted by Measure	N/A	60%	60%	60%	60%
		Net-To-Gross Adjustment (kWh/yr)	0	-63,832	-72,971	-72,132	-208,936
		Net Adjusted Savings (kWh/yr)	0	95,748	109,457	108,199	313,404
		Planned Net Savings (kWh/yr)	0	476,131	476,131	476,131	1,428,392
		Annual % Toward Planned Net Savings	N/A	20.1%	23.0%	22.7%	21.9%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	126	126	116	122
		Avg. Net Savings per Participant (kWh/yr)	N/A	76	75	70	73
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	13.9	16.3	15.9	46.1
		Realization Rate Weighted by Measure	N/A	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	13.9	16.3	15.9	46.1
		Net-To-Gross Rate Weighted by Measure	N/A	60%	60%	60%	60%
		Net-To-Gross Adjustment (kW)	0.0	-5.6	-6.5	-6.3	-18.4
		Net Adjusted Demand Reduction (kW)	0.0	8.4	9.8	9.5	27.6
		Planned Net Savings (kW)	0.0	42.2	42.2	42.2	126.7
		Annual % Toward Planned Net Reduction	N/A	19.8%	23.1%	22.5%	21.8%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	15.2	17.9	16.2	49.3
		Realization Rate Weighted by Measure	-	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	15.2	17.9	16.2	49.3
		Net-To-Gross Rate Weighted by Measure	-	60%	60%	60%	60%
		Net-To-Gross Adjustment (kW)	-	-6.1	-7.2	-6.5	-19.7
		Net Adjusted Demand Reduction (kW)	-	9.1	10.7	9.7	29.6
		Planned Net Savings (kW)	0.0	41.7	41.7	41.7	125.1
		Annual % Toward Planned Net Reduction	-	21.9%	25.7%	23.2%	23.6%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
		Avg. Net Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$2	\$2	\$2	\$2
		\$Admin. per kWh/year (Gross)	N/A	\$0.02	\$0.02	\$0.02	\$0.02
		\$Admin. per kW (Gross)	N/A	\$192	\$185	\$227	\$227
		\$EM&V per \$Total	N/A	4.8%	8.0%	7.7%	7.7%
		\$Rebate per Participant (Gross)	N/A	\$30	\$30	\$30	\$30

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K.2.2 2023 North Carolina Residential Energy Efficiency Kits Program (Phase VIII) Monthly Indicator Tables

NC - Residential Kits Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total		
O&M (\$)		Direct Rebate															
O&M (\$)		Direct Implementation															
O&M (\$)		Direct EM&V															
O&M (\$)		Indirect Other (Administrative)	\$357	\$89	\$497	\$128	\$123	\$129	\$874	\$129	\$851	\$125	\$822	\$745	\$4,869		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Costs (\$)		Total	\$5,280	\$1,321	\$7,359	\$1,894	\$1,821	\$1,906	\$12,933	\$1,912	\$12,592	\$1,846	\$12,165	\$11,031	\$72,060		
Costs (\$)		Planned	\$7,801	\$7,801	\$7,801	\$7,801	\$7,801	\$7,801	\$11,701	\$11,701	\$11,701	\$11,701	\$11,701	\$11,701	\$117,010		
Costs (\$)		Variance	-\$2,520	-\$6,480	-\$442	-\$5,907	-\$5,980	-\$5,895	\$1,232	-\$9,789	\$891	-\$9,855	\$464	-\$670	-\$44,950		
		Annual % of Planned	4.5%	5.6%	11.9%	13.5%	15.1%	16.7%	27.8%	29.4%	40.2%	41.8%	52.2%	61.6%	62%		
Participants <sup>1</sup>		Total (Gross)	114	0	175	0	0	0	337	4	336	0	327	258	1,551		
		Planned	150	150	150	150	150	150	150	150	150	150	150	150	1,800		
		Variance	-36	-150	25	-150	-150	-150	187	-146	186	-150	177	108	-249		
		Annual % of Planned (Gross)	6%	6%	16%	16%	16%	16%	35%	35%	54%	54%	72%	86%	86%		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	14,733	0	19,913	950	0	0	37,828	1,319	37,716	2,206	36,708	28,981	180,331		
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	N/A	N/A	100%	100%	100%	100%	100%	100%	100%		
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0		
		Realization Rate Adjusted Savings (kWh/yr)	14,733	0	19,913	950	0	0	37,828	1,319	37,716	2,206	36,708	28,981	180,331		
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	N/A	N/A	60%	60%	60%	60%	60%	60%	60%		
		Net-To-Gross Adjustment (kWh/yr)	-5,893	0	-7,965	-380	0	0	-15,131	-527	-15,086	-882	-14,682	-11,584	-72,132		
		Net Adjusted Savings (kWh/yr)	8,840	0	11,948	570	0	0	22,697	791	22,630	1,324	22,023	17,376	108,199		
		Planned Net Savings (kWh/yr)	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678	39,678	476,131		
		Annual % Toward Planned Net Savings	1.86%	1.86%	4.37%	4.49%	4.49%	4.49%	9.25%	9.42%	14.2%	14.4%	19.1%	22.7%	22.7%		
		Avg. Gross Savings per Participant (kWh/yr)	129	N/A	114	N/A	N/A	N/A	112	330	112	N/A	112	112	116		
		Avg. Net Savings per Participant (kWh/yr)	78	N/A	68	N/A	N/A	N/A	67	198	67	N/A	67	67	70		
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	1.3	0.0	1.8	0.1	0.0	0.0	3.3	0.1	3.3	0.2	3.2	2.5	15.9		
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	N/A	N/A	100%	100%	100%	100%	100%	100%	100%		
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Realization Rate Adjusted Gross Demand Reduction (kW)	1.3	0.0	1.8	0.1	0.0	0.0	3.3	0.1	3.3	0.2	3.2	2.5	15.9		
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	N/A	N/A	60%	60%	60%	60%	60%	60%	60%		
		Net-To-Gross Adjustment (kW)	-0.5	0.0	-0.7	0.0	0.0	0.0	-1.3	0.0	-1.3	-0.1	-1.3	-1.0	-6.3		
		Net Adjusted Demand Reduction (kW)	0.8	0.0	1.1	0.1	0.0	0.0	2.0	0.1	2.0	0.1	1.9	1.5	9.5		
		Planned Net Savings (kW)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	42.2		
		Annual % Toward Planned Net Reduction	1.88%	1.88%	4.38%	4.52%	4.52%	4.52%	9.25%	9.37%	14.1%	14.3%	18.9%	22.5%	22.5%		
		Avg. Gross Demand Reduction per Participant (kW)	0.01	N/A	0.01	N/A	N/A	N/A	0.01	0.02	0.01	N/A	0.01	0.01	0.01		
		Avg. Net Demand Reduction per Participant (kW)	0.01	N/A	0.01	N/A	N/A	N/A	0.01	0.01	0.01	N/A	0.01	0.01	0.01		
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	1.5	0.0	1.8	0.2	0.0	0.0	3.3	0.1	3.3	0.2	3.2	2.5	16.2		
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	N/A	N/A	100%	100%	100%	100%	100%	100%	100%		
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
		Realization Rate Adjusted Gross Demand Reduction (kW)	1.5	0.0	1.8	0.2	0.0	0.0	3.3	0.1	3.3	0.2	3.2	2.5	16.2		
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	N/A	N/A	60%	60%	60%	60%	60%	60%	60%		
		Net-To-Gross Adjustment (kW)	-0.6	0.0	-0.7	-0.1	0.0	0.0	-1.3	0.0	-1.3	-0.1	-1.3	-1.0	-6.5		
		Net Adjusted Demand Reduction (kW)	0.9	0.0	1.1	0.1	0.0	0.0	2.0	0.1	2.0	0.1	1.9	1.5	9.7		
		Planned Net Savings (kW)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	41.7		
		Annual % Toward Planned Net Reduction	2.20%	2.20%	4.78%	5.00%	5.00%	5.00%	9.79%	9.92%	14.7%	14.9%	19.6%	23.2%	23.2%		
		Avg. Gross Demand Reduction per Participant (kW)	0.01	N/A	0.01	N/A	N/A	N/A	0.01	0.02	0.01	N/A	0.01	0.01	0.01		
		Avg. Net Demand Reduction per Participant (kW)	0.01	N/A	0.01	N/A	N/A	N/A	0.01	0.01	0.01	N/A	0.01	0.01	0.01		
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2		
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02		
		\$Admin. per kW (Gross)	\$188	\$191	\$196	\$199	\$203	\$207	\$212	\$215	\$218	\$220	\$223	\$227	\$227		
		\$EM&V per \$Total	7.8%	7.9%	7.8%	8.1%	8.5%	8.9%	8.7%	8.8%	8.4%	8.5%	8.1%	7.7%	7.7%		
		\$Rebate per Participant (Gross)	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30		

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K.2.3 2020-2023 North Carolina Residential Energy Efficiency Kits Program (Phase VIII) Measure Indicator Tables

NC - Residential Kits Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed kWh/year	Caulking per Tube	Total Participants	0	7	19	3	29
	Caulking per Tube	Total Gross Energy Savings (kWh/yr)	0	40	108	16	164
	Caulking per Tube	Realization Rate	N/A	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Savings (kWh/yr)	0	24	65	9	98
	Caulking per Tube	Avg. Gross Savings per Participant (kWh/yr)	N/A	6	6	5	6
	Caulking per Tube	Avg. Net Savings per Participant (kWh/yr)	N/A	3	3	3	3
Installed Summer peak kW	Caulking per Tube	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.1
	Caulking per Tube	Realization Rate	N/A	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Caulking per Tube	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
	Caulking per Tube	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
Installed Winter peak kW	Caulking per Tube	Total Gross Demand Reduction (kW)	-	0.0	0.1	0.0	0.2
	Caulking per Tube	Realization Rate	-	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	-	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Demand Reduction (kW)	-	0.0	0.1	0.0	0.1
	Caulking per Tube	Avg. Gross Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
	Caulking per Tube	Avg. Net Demand Reduction per Participant (kW)	-	0.00	0.00	0.00	0.00
Installed kWh/year	Door Sweep	Total Participants	0	7	19	3	29
	Door Sweep	Total Gross Energy Savings (kWh/yr)	0	299	807	118	1,224
	Door Sweep	Realization Rate	N/A	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Door Sweep	Net Adjusted Savings (kWh/yr)	0	179	484	71	734
	Door Sweep	Avg. Gross Savings per Participant (kWh/yr)	N/A	43	42	39	42
	Door Sweep	Avg. Net Savings per Participant (kWh/yr)	N/A	26	25	24	25
Installed Summer peak kW	Door Sweep	Total Gross Demand Reduction (kW)	0.0	0.1	0.3	0.0	0.4
	Door Sweep	Realization Rate	N/A	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Door Sweep	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.2	0.0	0.2
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.02	0.01	0.01
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
Installed Winter peak kW	Door Sweep	Total Gross Demand Reduction (kW)	-	0.3	1.0	0.1	1.4
	Door Sweep	Realization Rate	-	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	-	60%	60%	60%	60%
	Door Sweep	Net Adjusted Demand Reduction (kW)	-	0.2	0.6	0.1	0.8
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	-	0.04	0.05	0.04	0.05
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	-	0.03	0.03	0.03	0.03
Installed kWh/year	Door Weatherstripping	Total Participants	0	7	19	3	29
	Door Weatherstripping	Total Gross Energy Savings (kWh/yr)	0	187	54	8	249
	Door Weatherstripping	Realization Rate	N/A	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Savings (kWh/yr)	0	112	32	5	149
	Door Weatherstripping	Avg. Gross Savings per Participant (kWh/yr)	N/A	27	3	3	9
	Door Weatherstripping	Avg. Net Savings per Participant (kWh/yr)	N/A	16	2	2	5
Installed Summer peak kW	Door Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Door Weatherstripping	Realization Rate	N/A	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Door Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
	Door Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
Installed Winter peak kW	Door Weatherstripping	Total Gross Demand Reduction (kW)	-	0.2	0.1	0.0	0.3

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NC - Residential Kits Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Door Weatherstripping	Realization Rate	-	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	-	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Demand Reduction (kW)	-	0.1	0.0	0.0	0.2
	Door Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	-	0.03	0.00	0.00	0.01
	Door Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	-	0.02	0.00	0.00	0.01
	Hot Water Pipe Insulation	Total Participants	0	17	18	6	41
Installed kWh/year	Hot Water Pipe Insulation	Total Gross Energy Savings (kWh/yr)	0	4,090	3,144	973	8,208
	Hot Water Pipe Insulation	Realization Rate	N/A	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Savings (kWh/yr)	0	2,454	1,886	584	4,925
	Hot Water Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	241	175	162	200
	Hot Water Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	144	105	97	120
Installed Summer peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	0.0	0.5	0.4	0.1	0.9
	Hot Water Pipe Insulation	Realization Rate	N/A	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.0	0.3	0.2	0.1	0.6
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.03	0.02	0.02	0.02
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.01	0.01	0.01
Installed Winter peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	-	0.5	0.4	0.1	0.9
	Hot Water Pipe Insulation	Realization Rate	-	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	-	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	-	0.3	0.2	0.1	0.6
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	0.03	0.02	0.02	0.02
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	-	0.02	0.01	0.01	0.01
	Lighting	Total Participants	0	20	23	5	48
Installed kWh/year	Lighting	Total Gross Energy Savings (kWh/yr)	0	6,148	7,282	1,104	14,534
	Lighting	Realization Rate	N/A	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Lighting	Net Adjusted Savings (kWh/yr)	0	3,689	4,369	662	8,720
	Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	307	317	221	303
	Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	184	190	132	182
Installed Summer peak kW	Lighting	Total Gross Demand Reduction (kW)	0.0	0.6	0.7	0.1	1.4
	Lighting	Realization Rate	N/A	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.3	0.4	0.1	0.8
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.03	0.03	0.03	0.03
	Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02	0.02
Installed Winter peak kW	Lighting	Total Gross Demand Reduction (kW)	-	1.2	1.4	0.3	2.9
	Lighting	Realization Rate	-	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	-	60%	60%	60%	60%
	Lighting	Net Adjusted Demand Reduction (kW)	-	0.7	0.9	0.2	1.8
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	0.06	0.06	0.06	0.06
	Lighting	Avg. Net Demand Reduction per Participant (kW)	-	0.04	0.04	0.04	0.04
	Outlet/Switch Gaskets	Total Participants	0	7	19	3	29
Installed kWh/year	Outlet/Switch Gaskets	Total Gross Energy Savings (kWh/yr)	0	15	41	6	63
	Outlet/Switch Gaskets	Realization Rate	N/A	100%	100%	100%	100%
	Outlet/Switch Gaskets	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Savings (kWh/yr)	0	9	25	4	38
	Outlet/Switch Gaskets	Avg. Gross Savings per Participant (kWh/yr)	N/A	2	2	2	2
	Outlet/Switch Gaskets	Avg. Net Savings per Participant (kWh/yr)	N/A	1	1	1	1
Installed Summer peak kW	Outlet/Switch Gaskets	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Outlet/Switch Gaskets	Realization Rate	N/A	100%	100%	100%	100%



NC - Residential Kits Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Outlet/Switch Gaskets	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Outlet/Switch Gaskets	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
	Outlet/Switch Gaskets	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
Installed Winter peak kW	Outlet/Switch Gaskets	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.1
	Outlet/Switch Gaskets	Realization Rate	-	100%	100%	100%	100%
	Outlet/Switch Gaskets	Net-To-Gross Rate	-	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Outlet/Switch Gaskets	Avg. Gross Demand Reduction per Participant (kW)	-	0.00	0.00	0.00	0.00
	Outlet/Switch Gaskets	Avg. Net Demand Reduction per Participant (kW)	-	0.00	0.00	0.00	0.00
	Smart Strips	Total Participants	0	1,264	1,453	1,551	4,268
Installed kWh/year	Smart Strips	Total Gross Energy Savings (kWh/yr)	0	141,884	164,874	175,285	482,042
	Smart Strips	Realization Rate	N/A	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Smart Strips	Net Adjusted Savings (kWh/yr)	0	85,130	98,924	105,171	289,225
	Smart Strips	Avg. Gross Savings per Participant (kWh/yr)	N/A	112	113	113	113
	Smart Strips	Avg. Net Savings per Participant (kWh/yr)	N/A	67	68	68	68
Installed Summer peak kW	Smart Strips	Total Gross Demand Reduction (kW)	0.0	12.5	14.5	15.4	42.4
	Smart Strips	Realization Rate	N/A	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Smart Strips	Net Adjusted Demand Reduction (kW)	0.0	7.5	8.7	9.3	25.5
	Smart Strips	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
	Smart Strips	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
Installed Winter peak kW	Smart Strips	Total Gross Demand Reduction (kW)	-	12.5	14.5	15.4	42.4
	Smart Strips	Realization Rate	-	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	-	60%	60%	60%	60%
	Smart Strips	Net Adjusted Demand Reduction (kW)	-	7.5	8.7	9.3	25.5
	Smart Strips	Avg. Gross Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
	Smart Strips	Avg. Net Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
	Water Distribution	Total Participants	0	17	18	6	41
Installed kWh/year	Water Distribution	Total Gross Energy Savings (kWh/yr)	0	6,799	6,064	2,814	15,677
	Water Distribution	Realization Rate	N/A	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Water Distribution	Net Adjusted Savings (kWh/yr)	0	4,079	3,639	1,688	9,406
	Water Distribution	Avg. Gross Savings per Participant (kWh/yr)	N/A	400	337	469	382
	Water Distribution	Avg. Net Savings per Participant (kWh/yr)	N/A	240	202	281	229
Installed Summer peak kW	Water Distribution	Total Gross Demand Reduction (kW)	0.0	0.3	0.3	0.1	0.8
	Water Distribution	Realization Rate	N/A	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Water Distribution	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.2	0.1	0.5
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02	0.02
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01	0.01
Installed Winter peak kW	Water Distribution	Total Gross Demand Reduction (kW)	-	0.3	0.3	0.1	0.8
	Water Distribution	Realization Rate	-	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	-	60%	60%	60%	60%
	Water Distribution	Net Adjusted Demand Reduction (kW)	-	0.2	0.2	0.1	0.5
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	-	0.02	0.02	0.02	0.02
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	-	0.01	0.01	0.01	0.01
	Window Weatherstripping	Total Participants	0	7	19	3	29
Installed kWh/year	Window Weatherstripping	Total Gross Energy Savings (kWh/yr)	0	118	54	8	180
	Window Weatherstripping	Realization Rate	N/A	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	N/A	60%	60%	60%	60%





NC - Residential Kits Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Window Weatherstripping	Net Adjusted Savings (kWh/yr)	0	71	32	5	108
	Window Weatherstripping	Avg. Gross Savings per Participant (kWh/yr)	N/A	17	3	3	6
	Window Weatherstripping	Avg. Net Savings per Participant (kWh/yr)	N/A	10	2	2	4
Installed Summer peak kW	Window Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Window Weatherstripping	Realization Rate	N/A	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	N/A	60%	60%	60%	60%
	Window Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Window Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
	Window Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00	0.00
Installed Winter peak kW	Window Weatherstripping	Total Gross Demand Reduction (kW)	-	0.2	0.1	0.0	0.2
	Window Weatherstripping	Realization Rate	-	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	-	60%	60%	60%	60%
	Window Weatherstripping	Net Adjusted Demand Reduction (kW)	-	0.1	0.0	0.0	0.1
	Window Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	-	0.02	0.00	0.00	0.01
	Window Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	-	0.01	0.00	0.00	0.00



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### K.3 North Carolina Residential Smart Thermostat Purchase and WeatherSmart Program (Phase VIII) 2021-2023

#### K.3.1 2021-2023 North Carolina Residential Smart Thermostat Purchase and WeatherSmart Program (Phase VIII) Annual Indicator Tables

NC - Residential Thermostat Purchase and WeatherSmart Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
O&M (\$)		Direct Rebate				
O&M (\$)		Direct Implementation				
O&M (\$)		Direct EM&V				
O&M (\$)		Indirect Other (Administrative)				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$19,202	\$50,894	\$31,196	\$101,292
Costs (\$)		Planned	\$73,197	\$76,014	\$75,566	\$224,776
Costs (\$)		Variance	-\$53,995	-\$25,119	-\$44,370	-\$123,484
		Annual % of Planned	26%	67%	41%	45%
Participants <sup>1</sup>		Total (Gross)	71	265	230	566
		Planned	306	589	542	1,437
		Variance	-235	-324	-312	-871
		Annual % of Planned (Gross)	23%	45%	42%	39%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	19,412	80,592	69,185	169,189
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	19,412	80,592	69,185	169,189
		Net-To-Gross Rate Weighted by Measure	85%	83%	87%	85%
		Net-To-Gross Adjustment (kWh/yr)	-2,851	-13,934	-9,181	-25,966
		Net Adjusted Savings (kWh/yr)	16,560	66,658	60,004	143,223
		Planned Net Savings (kWh/yr)	126,775	243,449	227,226	597,450
		Annual % Toward Planned Net Savings	13.1%	27.4%	26.4%	24.0%
		Avg. Gross Savings per Participant (kWh/yr)	273	304	301	299
		Avg. Net Savings per Participant (kWh/yr)	233	252	261	253
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	8.8	16.4	39.5	64.6
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	8.8	16.4	39.5	64.6
		Net-To-Gross Rate Weighted by Measure	95%	95%	95%	95%
		Net-To-Gross Adjustment (kW)	-0.4	-0.8	-2.0	-3.2
		Net Adjusted Demand Reduction (kW)	8.3	15.6	37.5	61.4
		Planned Net Savings (kW)	14.5	27.9	25.3	67.7
		Annual % Toward Planned Net Reduction	57.5%	55.7%	148.4%	90.8%
		Avg. Gross Demand Reduction per Participant (kW)	0.1	0.06	0.2	0.1
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.06	0.2	0.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.7	2.1	3.2	6.0
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.7	2.1	3.2	6.0
		Net-To-Gross Rate Weighted by Measure	95%	95%	95%	95%
		Net-To-Gross Adjustment (kW)	0.0	-0.1	-0.2	-0.3
		Net Adjusted Demand Reduction (kW)	0.7	2.0	3.0	5.7
		Planned Net Savings (kW)	22.1	42.1	40.5	104.7
		Annual % Toward Planned Net Reduction	3.03%	4.67%	7.46%	5.40%
		Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
		Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$13	\$9	\$9	\$9
		\$Admin. per kWh/year (Gross)	\$0.05	\$0.03	\$0.03	\$0.03
		\$Admin. per kW (Gross)	\$103	\$120	\$79	\$79
		\$EM&V per \$Total	10.5%	14.1%	16.3%	16.3%
		\$Rebate per Participant (Gross)	\$61	\$69	\$48	\$48

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K.3.2 2023 North Carolina Residential Smart Thermostat Purchase and WeatherSmart Program (Phase VIII) Monthly Indicator Tables

NC - Residential Thermostat Purchase and WeatherSmart Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$215	\$195	\$166	\$208	\$216	\$221	\$155	\$164	\$125	\$128	\$144	\$172	\$2,108	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$3,178	\$2,889	\$2,450	\$3,075	\$3,191	\$3,267	\$2,299	\$2,426	\$1,846	\$1,897	\$2,129	\$2,549	\$31,196	
Costs (\$)	Planned		\$5,038	\$5,038	\$5,038	\$5,038	\$5,038	\$5,038	\$7,557	\$7,557	\$7,557	\$7,557	\$7,557	\$7,557	\$75,566	
Costs (\$)	Variance		-\$1,860	-\$2,149	-\$2,587	-\$1,963	-\$1,846	-\$1,771	-\$5,258	-\$5,131	-\$5,711	-\$5,660	-\$5,427	-\$5,008	-\$44,370	
	Annual % of Planned		4.2%	8.0%	11.3%	15.3%	19.6%	23.9%	26.9%	30.1%	32.6%	35.1%	37.9%	41.3%	41%	
Participants <sup>1</sup>	Total (Gross)		21	19	16	18	35	27	1	26	15	10	19	23	230	
	Planned		58	44	44	44	44	44	44	44	44	44	44	44	542	
	Variance		-37	-25	-28	-26	-9	-17	-43	-18	-29	-34	-25	-21	-312	
	Annual % of Planned (Gross)		4%	7%	10%	14%	20%	25%	25%	30%	33%	35%	38%	42%	42%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	6,896	6,178	5,235	6,455	14,284	7,136	715	4,788	3,783	2,880	5,243	5,592	69,185	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Realization Rate Adjusted Savings (kWh/yr)	6,896	6,178	5,235	6,455	14,284	7,136	715	4,788	3,783	2,880	5,243	5,592	69,185	
		Net-To-Gross Rate Weighted by Measure	81%	82%	85%	84%	89%	88%	61%	91%	90%	92%	85%	92%	87%	
		Net-To-Gross Adjustment (kWh/yr)	-1,324	-1,132	-768	-1,049	-1,536	-833	-280	-420	-390	-238	-779	-433	-9,181	
		Net Adjusted Savings (kWh/yr)	5,571	5,046	4,467	5,406	12,748	6,303	435	4,369	3,393	2,642	4,464	5,159	60,004	
		Planned Net Savings (kWh/yr)	24,297	18,448	18,448	18,448	18,448	18,448	18,448	18,448	18,448	18,448	18,448	18,448	227,226	
		Annual % Toward Planned Net Savings	2.45%	4.67%	6.64%	9.02%	14.6%	17.4%	17.6%	19.5%	21.0%	22.2%	24.1%	26.4%	26.4%	
		Avg. Gross Savings per Participant (kWh/yr)	328	325	327	359	408	264	715	184	252	288	276	243	301	
		Avg. Net Savings per Participant (kWh/yr)	265	266	279	300	364	233	435	168	226	264	235	224	261	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.1	0.8	1.7	1.8	9.6	5.0	-0.7	7.2	2.4	3.8	2.4	5.4	39.5	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	0.8	1.7	1.8	9.6	5.0	-0.7	7.2	2.4	3.8	2.4	5.4	39.5	
		Net-To-Gross Rate Weighted by Measure	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	-0.1	-0.1	-0.5	-0.2	0.0	-0.4	-0.1	-0.2	-0.1	-0.3	-2.0	
		Net Adjusted Demand Reduction (kW)	0.1	0.7	1.6	1.8	9.2	4.7	-0.6	6.8	2.3	3.6	2.3	5.1	37.5	
		Planned Net Savings (kW)	2.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	25.3	
		Annual % Toward Planned Net Reduction	0.32%	3.19%	9.39%	16.3%	52.5%	71.2%	68.7%	95.7%	104.7%	119.1%	128.2%	148.4%	148.4%	
		Avg. Gross Demand Reduction per Participant (kW)	0.00	0.04	0.10	0.10	0.28	0.18	-0.67	0.28	0.16	0.38	0.13	0.23	0.2	
		Avg. Net Demand Reduction per Participant (kW)	0.00	0.04	0.10	0.10	0.3	0.2	-0.64	0.3	0.2	0.4	0.1	0.2	0.2	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.1	0.1	0.4	0.2	1.3	0.4	-0.2	-0.3	0.4	0.0	0.2	0.6	3.2	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	0.1	0.4	0.2	1.3	0.4	-0.2	-0.3	0.4	0.0	0.2	0.6	3.2	
		Net-To-Gross Rate Weighted by Measure	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	
		Net Adjusted Demand Reduction (kW)	0.1	0.1	0.4	0.2	1.3	0.4	-0.2	-0.3	0.4	0.0	0.1	0.6	3.0	
		Planned Net Savings (kW)	4.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	40.5	
		Annual % Toward Planned Net Reduction	0.32%	0.56%	1.45%	1.98%	5.07%	6.06%	5.54%	4.77%	5.80%	5.74%	6.10%	7.46%	7.46%	
		Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.02	0.01	0.04	0.02	-0.22	-0.01	0.03	0.00	0.01	0.03	0.01	
		Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.02	0.01	0.04	0.01	-0.21	-0.01	0.03	0.00	0.01	0.02	0.01	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	\$9	
		\$Admin. per kWh/year (Gross)	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	
		\$Admin. per kW (Gross)	\$128	\$132	\$130	\$129	\$103	\$96	\$101	\$90	\$88	\$85	\$84	\$79	\$79	
		\$EM&V per \$Total	14.0%	13.8%	14.2%	14.6%	15.5%	15.6%	16.2%	16.2%	16.2%	16.3%	16.3%	16.3%	16.3%	
		\$Rebate per Participant (Gross)	\$67	\$65	\$63	\$61	\$57	\$55	\$55	\$53	\$52	\$51	\$50	\$48	\$48	

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K.3.3 2021-2023 North Carolina Residential Smart Thermostat Purchase and WeatherSmart Program (Phase VIII) Measure Indicator Tables

NC - Residential Thermostat Purchase and WeatherSmart Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Smart Thermostat Purchase	Total Participants	44	215	110	369
Installed kWh/year	Smart Thermostat Purchase	Total Gross Energy Savings (kWh/yr)	12,538	66,029	38,142	116,710
	Smart Thermostat Purchase	Realization Rate	100%	100%	100%	100%
	Smart Thermostat Purchase	Net-To-Gross Rate	80%	80%	80%	80%
	Smart Thermostat Purchase	Net Adjusted Savings (kWh/yr)	10,031	52,824	30,514	93,368
	Smart Thermostat Purchase	Avg. Gross Savings per Participant (kWh/yr)	285	307	347	316
	Smart Thermostat Purchase	Avg. Net Savings per Participant (kWh/yr)	228	246	277	253
Installed Summer peak kW	Smart Thermostat Purchase	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Smart Thermostat Purchase	Realization Rate	N/A	N/A	N/A	N/A
	Smart Thermostat Purchase	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Smart Thermostat Purchase	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Smart Thermostat Purchase	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0
	Smart Thermostat Purchase	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0
Installed Winter peak kW	Smart Thermostat Purchase	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Smart Thermostat Purchase	Realization Rate	N/A	N/A	N/A	N/A
	Smart Thermostat Purchase	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Smart Thermostat Purchase	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Smart Thermostat Purchase	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	-
	Smart Thermostat Purchase	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	-
	WeatherSmart	Total Participants	27	50	120	197
Installed kWh/year	WeatherSmart	Total Gross Energy Savings (kWh/yr)	6,873	14,563	31,043	52,479
	WeatherSmart	Realization Rate	100%	100%	100%	100%
	WeatherSmart	Net-To-Gross Rate	95%	95%	95%	95%
	WeatherSmart	Net Adjusted Savings (kWh/yr)	6,530	13,835	29,491	49,855
	WeatherSmart	Avg. Gross Savings per Participant (kWh/yr)	255	291	259	266
	WeatherSmart	Avg. Net Savings per Participant (kWh/yr)	242	277	246	253
Installed Summer peak kW	WeatherSmart	Total Gross Demand Reduction (kW)	8.8	16.4	39.5	64.6
	WeatherSmart	Realization Rate	100%	100%	100%	100%
	WeatherSmart	Net-To-Gross Rate	95%	95%	95%	95%
	WeatherSmart	Net Adjusted Demand Reduction (kW)	8.3	15.6	37.5	61.4
	WeatherSmart	Avg. Gross Demand Reduction per Participant (kW)	0.3	0.3	0.3	0.3
	WeatherSmart	Avg. Net Demand Reduction per Participant (kW)	0.3	0.3	0.3	0.3
Installed Winter peak kW	WeatherSmart	Total Gross Demand Reduction (kW)	0.7	2.1	3.2	6.0
	WeatherSmart	Realization Rate	100%	100%	100%	100%
	WeatherSmart	Net-To-Gross Rate	95%	95%	95%	95%
	WeatherSmart	Net Adjusted Demand Reduction (kW)	0.7	2.0	3.0	5.7
	WeatherSmart	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.04	0.03	0.03
	WeatherSmart	Avg. Net Demand Reduction per Participant (kW)	0.02	0.04	0.03	0.03

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**K.4 North Carolina Residential Smart Home Program (Phase IX) 2022-2023**

**K.4.1 2022-2023 North Carolina Residential Smart Home Program (Phase IX) Annual Indicator Tables**

NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
O&M (\$)		Direct Rebate			
O&M (\$)		Direct Implementation			
O&M (\$)		Direct EM&V			
O&M (\$)		Indirect Other (Administrative)			
Capital (\$)		Direct Implementation	\$0	\$0	\$0
Costs (\$)		Total	\$16,505	\$35,651	\$52,155
Costs (\$)		Planned	\$52,623	\$143,122	\$195,745
Costs (\$)		Variance	-\$36,119	-\$107,471	-\$143,590
		Annual % of Planned	31%	25%	27%
Participants <sup>1</sup>		Total (Gross)	1	1	2
		Planned	308	462	770
		Variance	-307	-461	-768
		Annual % of Planned (Gross)	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	383	295	679
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	383	295	679
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%
		Net-To-Gross Adjustment (kWh/yr)	-58	-44	-102
		Net Adjusted Savings (kWh/yr)	326	251	577
		Planned Net Savings (kWh/yr)	364,164	546,246	910,410
		Annual % Toward Planned Net Savings	0.09%	0.05%	0.06%
		Avg. Gross Savings per Participant (kWh/yr)	383	295	339
		Avg. Net Savings per Participant (kWh/yr)	326	251	288
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.1
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.1
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
		Planned Net Savings (kW)	89.3	133.9	223.1
		Annual % Toward Planned Net Reduction	0.03%	0.01%	0.02%
		Avg. Gross Demand Reduction per Participant (kW)	0.03	0.02	0.03
		Avg. Net Demand Reduction per Participant (kW)	0.03	0.02	0.02
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.2	0.0	0.2
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.2	0.0	0.2
		Net-To-Gross Rate Weighted by Measure	85%	85%	85%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.2	0.0	0.2
		Planned Net Savings (kW)	54.5	81.8	136.3
		Annual % Toward Planned Net Reduction	0.30%	0.02%	0.13%
		Avg. Gross Demand Reduction per Participant (kW)	0.2	0.02	0.1
		Avg. Net Demand Reduction per Participant (kW)	0.2	0.02	0.09
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$689	\$1,549	\$1,549
		\$Admin. per kWh/year (Gross)	\$2	\$5	\$5
		\$Admin. per kW (Gross)	\$19,725	\$56,638	\$56,638
		\$EM&V per \$Total	9.1%	7.0%	7.0%
		\$Rebate per Participant (Gross)	\$25	\$42	\$42

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K.4.2 2023 North Carolina Residential Smart Home Program (Phase IX) Monthly Indicator Tables

NC - Residential Smart Home Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total			
O&M (\$)		Direct Rebate																
O&M (\$)		Direct Implementation																
O&M (\$)		Direct EM&V																
O&M (\$)		Indirect Other (Administrative)	\$198	\$202	\$204	\$200	\$64	\$316	\$196	\$196	\$190	\$232	\$218	\$193	\$2,409			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$2,937	\$2,985	\$3,014	\$2,956	\$949	\$4,678	\$2,901	\$2,899	\$2,811	\$3,428	\$3,227	\$2,864	\$35,651			
Costs (\$)		Planned	\$9,541	\$9,541	\$9,541	\$9,541	\$9,541	\$9,541	\$14,312	\$14,312	\$14,312	\$14,312	\$14,312	\$14,312	\$143,122			
Costs (\$)		Variance	-\$6,604	-\$6,556	-\$6,527	-\$6,585	-\$8,592	-\$4,863	-\$11,411	-\$11,413	-\$11,501	-\$10,885	-\$11,086	-\$11,449	-\$107,471			
		Annual % of Planned	2.1%	4.1%	6.2%	8.3%	9.0%	12.2%	14.3%	16.3%	18.3%	20.7%	22.9%	24.9%	25%			
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	1	0	1			
		Planned	44	38	38	38	38	38	38	38	38	38	38	38	462			
		Variance	-44	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-461			
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	295	0	295			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	295	0	295			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	85%	N/A	85%			
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	-44	0	-44			
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	251	0	251			
		Planned Net Savings (kWh/yr)	52,023	44,929	44,929	44,929	44,929	44,929	44,929	44,929	44,929	44,929	44,929	44,929	546,246			
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.05%	0.05%	0.05%			
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	295	N/A	295			
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	251	N/A	251			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	85%	N/A	85%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Planned Net Savings (kW)	12.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	133.9			
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.01%	0.01%	0.01%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02	N/A	0.02			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02	N/A	0.02			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	85%	N/A	85%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Planned Net Savings (kW)	7.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	81.8			
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.02%	0.02%	0.02%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02	N/A	0.02			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02	N/A	0.02			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$888	\$1,089	\$1,293	\$1,493	\$1,557	\$1,873	\$2,069	\$2,265	\$2,455	\$2,686	\$1,452	\$1,549	\$1,549			
		\$Admin. per kWh/year (Gross)	\$2	\$3	\$3	\$4	\$4	\$5	\$5	\$6	\$6	\$7	\$4	\$5	\$5			
		\$Admin. per kW (Gross)	\$25,405	\$31,179	\$37,009	\$42,726	\$44,562	\$53,610	\$59,220	\$64,827	\$70,285	\$76,893	\$53,101	\$56,638	\$56,638			
		\$EM&V per \$Total	9.1%	8.5%	8.5%	8.6%	8.9%	8.1%	8.1%	8.1%	7.9%	7.5%	7.2%	7.0%	7.0%			
		\$Rebate per Participant (Gross)	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$42	\$42	\$42			

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K.4.3 2022-2023 North Carolina Residential Smart Home Program (Phase IX) Measure Indicator Tables

NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
Installed kWh/year	Connected 9.5W ENERGY STAR LED	Total Participants	1	0	1
	Connected 9.5W ENERGY STAR LED	Total Gross Energy Savings (kWh/yr)	0	0	0
	Connected 9.5W ENERGY STAR LED	Realization Rate	100%	N/A	100%
	Connected 9.5W ENERGY STAR LED	Net-To-Gross Rate	85%	N/A	85%
	Connected 9.5W ENERGY STAR LED	Net Adjusted Savings (kWh/yr)	0	0	0
	Connected 9.5W ENERGY STAR LED	Avg. Gross Savings per Participant (kWh/yr)	0	N/A	0
	Connected 9.5W ENERGY STAR LED	Avg. Net Savings per Participant (kWh/yr)	0	N/A	0
Installed Summer peak kW	Connected 9.5W ENERGY STAR LED	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Connected 9.5W ENERGY STAR LED	Realization Rate	100%	N/A	100%
	Connected 9.5W ENERGY STAR LED	Net-To-Gross Rate	85%	N/A	85%
	Connected 9.5W ENERGY STAR LED	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Connected 9.5W ENERGY STAR LED	Avg. Gross Demand Reduction per Participant (kW)	0.00	N/A	0.00
	Connected 9.5W ENERGY STAR LED	Avg. Net Demand Reduction per Participant (kW)	0.00	N/A	0.00
Installed Winter peak kW	Connected 9.5W ENERGY STAR LED	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Connected 9.5W ENERGY STAR LED	Realization Rate	N/A	N/A	N/A
	Connected 9.5W ENERGY STAR LED	Net-To-Gross Rate	N/A	N/A	N/A
	Connected 9.5W ENERGY STAR LED	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Connected 9.5W ENERGY STAR LED	Avg. Gross Demand Reduction per Participant (kW)	0.0	N/A	-
	Connected 9.5W ENERGY STAR LED	Avg. Net Demand Reduction per Participant (kW)	0.0	N/A	-
Installed kWh/year	ecobee Smart Thermostat Enhanced	Total Participants	0	0	0
	ecobee Smart Thermostat Enhanced	Total Gross Energy Savings (kWh/yr)	0	0	0
	ecobee Smart Thermostat Enhanced	Realization Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Net-To-Gross Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Net Adjusted Savings (kWh/yr)	0	0	0
	ecobee Smart Thermostat Enhanced	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	ecobee Smart Thermostat Enhanced	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	ecobee Smart Thermostat Enhanced	Realization Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Net-To-Gross Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	ecobee Smart Thermostat Enhanced	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	ecobee Smart Thermostat Enhanced	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	ecobee Smart Thermostat Enhanced	Total Gross Demand Reduction (kW)	-	-	0.0
	ecobee Smart Thermostat Enhanced	Realization Rate	-	-	N/A
	ecobee Smart Thermostat Enhanced	Net-To-Gross Rate	-	-	N/A
	ecobee Smart Thermostat Enhanced	Net Adjusted Demand Reduction (kW)	-	-	0.0
	ecobee Smart Thermostat Enhanced	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	ecobee Smart Thermostat Enhanced	Avg. Net Demand Reduction per Participant (kW)	-	-	-
Installed kWh/year	ecobee Smart Thermostat Premium	Total Participants	0	1	1
	ecobee Smart Thermostat Premium	Total Gross Energy Savings (kWh/yr)	0	71	71
	ecobee Smart Thermostat Premium	Realization Rate	N/A	100%	100%
	ecobee Smart Thermostat Premium	Net-To-Gross Rate	N/A	85%	85%
	ecobee Smart Thermostat Premium	Net Adjusted Savings (kWh/yr)	0	60	60
	ecobee Smart Thermostat Premium	Avg. Gross Savings per Participant (kWh/yr)	N/A	71	71
	ecobee Smart Thermostat Premium	Avg. Net Savings per Participant (kWh/yr)	N/A	60	60
Installed Summer peak kW	ecobee Smart Thermostat Premium	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	ecobee Smart Thermostat Premium	Realization Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Premium	Net-To-Gross Rate	N/A	N/A	N/A
	ecobee Smart Thermostat Premium	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	ecobee Smart Thermostat Premium	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0
	ecobee Smart Thermostat Premium	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0
Installed Winter peak kW	ecobee Smart Thermostat Premium	Total Gross Demand Reduction (kW)	-	0.0	0.0

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NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	ecobee Smart Thermostat Premium	Realization Rate	-	N/A	N/A
	ecobee Smart Thermostat Premium	Net-To-Gross Rate	-	N/A	N/A
	ecobee Smart Thermostat Premium	Net Adjusted Demand Reduction (kW)	-	0.0	0.0
	ecobee Smart Thermostat Premium	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	-
	ecobee Smart Thermostat Premium	Avg. Net Demand Reduction per Participant (kW)	-	0.0	-
	ecobee3 lite	Total Participants	0	0	0
Installed kWh/year	ecobee3 lite	Total Gross Energy Savings (kWh/yr)	0	0	0
	ecobee3 lite	Realization Rate	N/A	N/A	N/A
	ecobee3 lite	Net-To-Gross Rate	N/A	N/A	N/A
	ecobee3 lite	Net Adjusted Savings (kWh/yr)	0	0	0
	ecobee3 lite	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	ecobee3 lite	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	ecobee3 lite	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	ecobee3 lite	Realization Rate	N/A	N/A	N/A
	ecobee3 lite	Net-To-Gross Rate	N/A	N/A	N/A
	ecobee3 lite	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	ecobee3 lite	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	ecobee3 lite	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	ecobee3 lite	Total Gross Demand Reduction (kW)	-	-	0.0
	ecobee3 lite	Realization Rate	-	-	N/A
	ecobee3 lite	Net-To-Gross Rate	-	-	N/A
	ecobee3 lite	Net Adjusted Demand Reduction (kW)	-	-	0.0
	ecobee3 lite	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	ecobee3 lite	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Kasa Smart Plugs (2 pack)	Total Participants	0	1	1
Installed kWh/year	Kasa Smart Plugs (2 pack)	Total Gross Energy Savings (kWh/yr)	0	225	225
	Kasa Smart Plugs (2 pack)	Realization Rate	N/A	100%	100%
	Kasa Smart Plugs (2 pack)	Net-To-Gross Rate	N/A	85%	85%
	Kasa Smart Plugs (2 pack)	Net Adjusted Savings (kWh/yr)	0	191	191
	Kasa Smart Plugs (2 pack)	Avg. Gross Savings per Participant (kWh/yr)	N/A	225	225
	Kasa Smart Plugs (2 pack)	Avg. Net Savings per Participant (kWh/yr)	N/A	191	191
Installed Summer peak kW	Kasa Smart Plugs (2 pack)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Plugs (2 pack)	Realization Rate	N/A	100%	100%
	Kasa Smart Plugs (2 pack)	Net-To-Gross Rate	N/A	85%	85%
	Kasa Smart Plugs (2 pack)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Plugs (2 pack)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02
	Kasa Smart Plugs (2 pack)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.02
Installed Winter peak kW	Kasa Smart Plugs (2 pack)	Total Gross Demand Reduction (kW)	-	0.0	0.0
	Kasa Smart Plugs (2 pack)	Realization Rate	-	100%	100%
	Kasa Smart Plugs (2 pack)	Net-To-Gross Rate	-	85%	85%
	Kasa Smart Plugs (2 pack)	Net Adjusted Demand Reduction (kW)	-	0.0	0.0
	Kasa Smart Plugs (2 pack)	Avg. Gross Demand Reduction per Participant (kW)	-	0.02	0.02
	Kasa Smart Plugs (2 pack)	Avg. Net Demand Reduction per Participant (kW)	-	0.02	0.02
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Total Participants	0	0	0
Installed kWh/year	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Total Gross Energy Savings (kWh/yr)	0	0	0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Realization Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net-To-Gross Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net Adjusted Savings (kWh/yr)	0	0	0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Realization Rate	N/A	N/A	N/A





NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net-To-Gross Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Total Gross Demand Reduction (kW)	-	-	0.0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Realization Rate	-	-	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net-To-Gross Rate	-	-	N/A
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Kasa Smart Wi-Fi Outdoor Plug (2 outlets)	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Total Participants	0	0	0
Installed kWh/year	Kasa Smart Wi-Fi Power Strip 3-Outlets	Total Gross Energy Savings (kWh/yr)	0	0	0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Realization Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net-To-Gross Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net Adjusted Savings (kWh/yr)	0	0	0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Kasa Smart Wi-Fi Power Strip 3-Outlets	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Realization Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net-To-Gross Rate	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Kasa Smart Wi-Fi Power Strip 3-Outlets	Total Gross Demand Reduction (kW)	-	-	0.0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Realization Rate	-	-	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net-To-Gross Rate	-	-	N/A
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Kasa Smart Wi-Fi Power Strip 3-Outlets	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz 2.4GHz WiFi Motion Sensor	Total Participants	0	0	0
Installed kWh/year	Philips Wiz 2.4GHz WiFi Motion Sensor	Total Gross Energy Savings (kWh/yr)	0	0	0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Realization Rate	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net-To-Gross Rate	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net Adjusted Savings (kWh/yr)	0	0	0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Philips Wiz 2.4GHz WiFi Motion Sensor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Realization Rate	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net-To-Gross Rate	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Philips Wiz 2.4GHz WiFi Motion Sensor	Total Gross Demand Reduction (kW)	-	-	0.0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Realization Rate	-	-	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net-To-Gross Rate	-	-	N/A
	Philips Wiz 2.4GHz WiFi Motion Sensor	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz 2.4GHz WiFi Motion Sensor	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Total Participants	0	0	0
Installed kWh/year	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Total Gross Energy Savings (kWh/yr)	0	0	0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Realization Rate	N/A	N/A	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net-To-Gross Rate	N/A	N/A	N/A



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Jun 14 2024

NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net Adjusted Savings (kWh/yr)	0	0	0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Realization Rate	N/A	N/A	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net-To-Gross Rate	N/A	N/A	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Total Gross Demand Reduction (kW)	-	-	0.0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Realization Rate	-	-	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net-To-Gross Rate	-	-	N/A
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz A19 Wi-Fi Color Bulb (2 pack)	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Total Participants	0	0	0
Installed kWh/year	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Total Gross Energy Savings (kWh/yr)	0	0	0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Realization Rate	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net-To-Gross Rate	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net Adjusted Savings (kWh/yr)	0	0	0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Realization Rate	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net-To-Gross Rate	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Total Gross Demand Reduction (kW)	-	-	0.0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Realization Rate	-	-	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net-To-Gross Rate	-	-	N/A
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Philips Wiz Downlight BR30 Color and Tunable White 7.2W (Eq.65W) BR30 E26 Bulb	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Sense Flex	Total Participants	0	0	0
Installed kWh/year	Sense Flex	Total Gross Energy Savings (kWh/yr)	0	0	0
	Sense Flex	Realization Rate	N/A	N/A	N/A
	Sense Flex	Net-To-Gross Rate	N/A	N/A	N/A
	Sense Flex	Net Adjusted Savings (kWh/yr)	0	0	0
	Sense Flex	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Sense Flex	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Sense Flex	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Sense Flex	Realization Rate	N/A	N/A	N/A
	Sense Flex	Net-To-Gross Rate	N/A	N/A	N/A
	Sense Flex	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Sense Flex	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Sense Flex	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Sense Flex	Total Gross Demand Reduction (kW)	-	-	0.0
	Sense Flex	Realization Rate	-	-	N/A
	Sense Flex	Net-To-Gross Rate	-	-	N/A
	Sense Flex	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Sense Flex	Avg. Gross Demand Reduction per Participant (kW)	-	-	-



NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Sense Flex	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Sense Home Energy Monitor	Total Participants	0	0	0
Installed kWh/year	Sense Home Energy Monitor	Total Gross Energy Savings (kWh/yr)	0	0	0
	Sense Home Energy Monitor	Realization Rate	N/A	N/A	N/A
	Sense Home Energy Monitor	Net-To-Gross Rate	N/A	N/A	N/A
	Sense Home Energy Monitor	Net Adjusted Savings (kWh/yr)	0	0	0
	Sense Home Energy Monitor	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Sense Home Energy Monitor	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Sense Home Energy Monitor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Sense Home Energy Monitor	Realization Rate	N/A	N/A	N/A
	Sense Home Energy Monitor	Net-To-Gross Rate	N/A	N/A	N/A
	Sense Home Energy Monitor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Sense Home Energy Monitor	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Sense Home Energy Monitor	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Sense Home Energy Monitor	Total Gross Demand Reduction (kW)	-	-	0.0
	Sense Home Energy Monitor	Realization Rate	-	-	N/A
	Sense Home Energy Monitor	Net-To-Gross Rate	-	-	N/A
	Sense Home Energy Monitor	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Sense Home Energy Monitor	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Sense Home Energy Monitor	Avg. Net Demand Reduction per Participant (kW)	-	-	-
Installed kWh/year	Smart Home Energy Monitor (w/ solar option)	Total Participants	0	0	0
	Smart Home Energy Monitor (w/ solar option)	Total Gross Energy Savings (kWh/yr)	0	0	0
	Smart Home Energy Monitor (w/ solar option)	Realization Rate	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Net-To-Gross Rate	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Net Adjusted Savings (kWh/yr)	0	0	0
	Smart Home Energy Monitor (w/ solar option)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Smart Home Energy Monitor (w/ solar option)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Energy Monitor (w/ solar option)	Realization Rate	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Net-To-Gross Rate	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Energy Monitor (w/ solar option)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Smart Home Energy Monitor (w/ solar option)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Smart Home Energy Monitor (w/ solar option)	Total Gross Demand Reduction (kW)	-	-	0.0
	Smart Home Energy Monitor (w/ solar option)	Realization Rate	-	-	N/A
	Smart Home Energy Monitor (w/ solar option)	Net-To-Gross Rate	-	-	N/A
	Smart Home Energy Monitor (w/ solar option)	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Smart Home Energy Monitor (w/ solar option)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Smart Home Energy Monitor (w/ solar option)	Avg. Net Demand Reduction per Participant (kW)	-	-	-
Installed kWh/year	Smart Home Hub with Entry/Motion Sensor	Total Participants	1	0	1
	Smart Home Hub with Entry/Motion Sensor	Total Gross Energy Savings (kWh/yr)	46	0	46
	Smart Home Hub with Entry/Motion Sensor	Realization Rate	100%	N/A	100%
	Smart Home Hub with Entry/Motion Sensor	Net-To-Gross Rate	85%	N/A	85%
	Smart Home Hub with Entry/Motion Sensor	Net Adjusted Savings (kWh/yr)	39	0	39
	Smart Home Hub with Entry/Motion Sensor	Avg. Gross Savings per Participant (kWh/yr)	46	N/A	46
	Smart Home Hub with Entry/Motion Sensor	Avg. Net Savings per Participant (kWh/yr)	39	N/A	39
Installed Summer peak kW	Smart Home Hub with Entry/Motion Sensor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Hub with Entry/Motion Sensor	Realization Rate	100%	N/A	100%
	Smart Home Hub with Entry/Motion Sensor	Net-To-Gross Rate	85%	N/A	85%
	Smart Home Hub with Entry/Motion Sensor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Hub with Entry/Motion Sensor	Avg. Gross Demand Reduction per Participant (kW)	0.00	N/A	0.00
	Smart Home Hub with Entry/Motion Sensor	Avg. Net Demand Reduction per Participant (kW)	0.00	N/A	0.00



NC - Residential Smart Home Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
Installed Winter peak kW	Smart Home Hub with Entry/Motion Sensor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Hub with Entry/Motion Sensor	Realization Rate	100%	N/A	100%
	Smart Home Hub with Entry/Motion Sensor	Net-To-Gross Rate	85%	N/A	85%
	Smart Home Hub with Entry/Motion Sensor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Smart Home Hub with Entry/Motion Sensor	Avg. Gross Demand Reduction per Participant (kW)	0.01	N/A	0.01
	Smart Home Hub with Entry/Motion Sensor	Avg. Net Demand Reduction per Participant (kW)	0.01	N/A	0.01
Installed kWh/year	Smart Plugs	Total Participants	1	0	1
	Smart Plugs	Total Gross Energy Savings (kWh/yr)	337	0	337
	Smart Plugs	Realization Rate	100%	N/A	100%
	Smart Plugs	Net-To-Gross Rate	85%	N/A	85%
	Smart Plugs	Net Adjusted Savings (kWh/yr)	286	0	286
	Smart Plugs	Avg. Gross Savings per Participant (kWh/yr)	337	N/A	337
Installed Summer peak kW	Smart Plugs	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Smart Plugs	Realization Rate	100%	N/A	100%
	Smart Plugs	Net-To-Gross Rate	85%	N/A	85%
	Smart Plugs	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Smart Plugs	Avg. Gross Demand Reduction per Participant (kW)	0.03	N/A	0.03
	Smart Plugs	Avg. Net Demand Reduction per Participant (kW)	0.03	N/A	0.03
Installed Winter peak kW	Smart Plugs	Total Gross Demand Reduction (kW)	0.2	0.0	0.2
	Smart Plugs	Realization Rate	100%	N/A	100%
	Smart Plugs	Net-To-Gross Rate	85%	N/A	85%
	Smart Plugs	Net Adjusted Demand Reduction (kW)	0.2	0.0	0.2
	Smart Plugs	Avg. Gross Demand Reduction per Participant (kW)	0.2	N/A	0.2
	Smart Plugs	Avg. Net Demand Reduction per Participant (kW)	0.2	N/A	0.2
Installed kWh/year	Smart Thermostat with Controls and Sensors	Total Participants	0	0	0
	Smart Thermostat with Controls and Sensors	Total Gross Energy Savings (kWh/yr)	0	0	0
	Smart Thermostat with Controls and Sensors	Realization Rate	N/A	N/A	N/A
	Smart Thermostat with Controls and Sensors	Net-To-Gross Rate	N/A	N/A	N/A
	Smart Thermostat with Controls and Sensors	Net Adjusted Savings (kWh/yr)	0	0	0
	Smart Thermostat with Controls and Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Smart Thermostat with Controls and Sensors	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Smart Thermostat with Controls and Sensors	Realization Rate	N/A	N/A	N/A
	Smart Thermostat with Controls and Sensors	Net-To-Gross Rate	N/A	N/A	N/A
	Smart Thermostat with Controls and Sensors	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Smart Thermostat with Controls and Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Smart Thermostat with Controls and Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Smart Thermostat with Controls and Sensors	Total Gross Demand Reduction (kW)	-	-	0.0
	Smart Thermostat with Controls and Sensors	Realization Rate	-	-	N/A
	Smart Thermostat with Controls and Sensors	Net-To-Gross Rate	-	-	N/A
	Smart Thermostat with Controls and Sensors	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Smart Thermostat with Controls and Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Smart Thermostat with Controls and Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-



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### K.5 North Carolina Residential Water Savings Program (Phase IX) 2022-2023

#### K.5.1 2022-2023 North Carolina Residential Water Savings Program (Phase IX) Annual Indicator Tables

NC - Residential Water Savings Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
O&M (\$)		Direct Rebate			
O&M (\$)		Direct Implementation			
O&M (\$)		Direct EM&V			
O&M (\$)		Indirect Other (Administrative)			
Capital (\$)		Direct Implementation	\$0	\$0	\$0
Costs (\$)		Total	\$5,048	\$16,481	\$21,529
Costs (\$)		Planned	\$20,362	\$66,848	\$87,209
Costs (\$)		Variance	-\$15,314	-\$50,367	-\$65,681
		Annual % of Planned	25%	25%	25%
Participants <sup>1</sup>		Total (Gross)	0	11	11
		Planned	60	120	180
		Variance	-60	-109	-169
		Annual % of Planned (Gross)	0%	9%	6%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	14,129	14,129
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	14,129	14,129
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-1,413	-1,413
		Net Adjusted Savings (kWh/yr)	0	12,716	12,716
		Planned Net Savings (kWh/yr)	118,098	236,196	354,294
		Annual % Toward Planned Net Savings	0%	5.38%	3.59%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	1,284	1,284
		Avg. Net Savings per Participant (kWh/yr)	N/A	1,156	1,156
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	2.7	2.7
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	2.7	2.7
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-0.3	-0.3
		Net Adjusted Demand Reduction (kW)	0.0	2.5	2.5
		Planned Net Savings (kW)	28.1	56.2	84.4
		Annual % Toward Planned Net Reduction	0%	4.37%	2.92%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	3.1	3.1
		Realization Rate Weighted by Measure	-	100%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	3.1	3.1
		Net-To-Gross Rate Weighted by Measure	-	90%	90%
		Net-To-Gross Adjustment (kW)	-	-0.3	-0.3
		Net Adjusted Demand Reduction (kW)	-	2.8	2.8
		Planned Net Savings (kW)	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.3
		Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.3
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$120	\$120
		\$Admin. per kWh/year (Gross)	N/A	\$0.09	\$0.09
		\$Admin. per kW (Gross)	N/A	\$485	\$485
		\$EM&V per \$Total	10.1%	11.4%	11.4%
		\$Rebate per Participant (Gross)	N/A	\$295	\$295

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K.5.2 2023 North Carolina Residential Water Savings Program (Phase IX) Monthly Indicator Tables

NC - Residential Water Savings Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total			
O&M (\$)		Direct Rebate																
O&M (\$)		Direct Implementation																
O&M (\$)		Direct EM&V																
O&M (\$)		Indirect Other (Administrative)	\$71	\$67	\$72	\$75	\$44	\$168	\$86	\$79	\$93	\$123	\$153	\$71	\$1,114			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$1,055	\$996	\$1,062	\$1,113	\$658	\$2,490	\$1,414	\$1,165	\$1,381	\$1,824	\$2,270	\$1,052	\$16,481			
Costs (\$)		Planned	\$4,457	\$4,457	\$4,457	\$4,457	\$4,457	\$4,457	\$6,685	\$6,685	\$6,685	\$6,685	\$6,685	\$6,685	\$66,848			
Costs (\$)		Variance	-\$3,401	-\$3,461	-\$3,394	-\$3,344	-\$3,799	-\$1,967	-\$5,271	-\$5,520	-\$5,303	-\$4,860	-\$4,415	-\$5,633	-\$50,367			
		Annual % of Planned	1.6%	3.1%	4.7%	6.3%	7.3%	11.0%	13.1%	14.9%	17.0%	19.7%	23.1%	24.7%	25%			
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	3	1	0	1	3	3	0	11			
		Planned	10	10	10	10	10	10	10	10	10	10	10	10	120			
		Variance	-10	-10	-10	-10	-10	-7	-9	-10	-9	-7	-7	-10	-109			
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	3%	3%	3%	4%	7%	9%	9%	9%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	3,996	656	0	1,939	5,044	2,494	0	14,129			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	100%	100%	N/A	100%	100%	100%	N/A	100%			
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	3,996	656	0	1,939	5,044	2,494	0	14,129			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	90%	90%	N/A	90%	90%	90%	N/A	90%			
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	-400	-66	0	-194	-504	-249	0	-1,413			
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	3,596	590	0	1,745	4,540	2,245	0	12,716			
		Planned Net Savings (kWh/yr)	19,683	19,683	19,683	19,683	19,683	19,683	19,683	19,683	19,683	19,683	19,683	19,683	236,196			
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	1.52%	1.77%	1.77%	2.51%	4.43%	5.38%	5.38%	5.38%			
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	1,332	656	N/A	1,939	1,681	831	N/A	1,284			
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	1,199	590	N/A	1,745	1,513	748	N/A	1,156			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.0	0.1	0.6	1.1	0.0	2.7			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	100%	100%	N/A	100%	100%	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.0	0.1	0.6	1.1	0.0	2.7			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	90%	90%	N/A	90%	90%	90%	N/A	90%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.3			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.0	0.1	0.5	1.0	0.0	2.5			
		Planned Net Savings (kW)	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	56.2			
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	1.43%	1.65%	1.65%	1.79%	2.68%	4.37%	4.37%	4.37%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	0.30	0.13	N/A	0.09	0.18	0.35	N/A	0.2			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	0.3	0.1	N/A	0.08	0.2	0.3	N/A	0.2			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.9	0.2	0.0	0.2	0.7	1.1	0.0	3.1			
		Realization Rate Weighted by Measure	-	-	-	-	-	100%	100%	N/A	100%	100%	100%	N/A	100%			
		Realization Rate Adjustment (kW)	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	0.9	0.2	0.0	0.2	0.7	1.1	0.0	3.1			
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	90%	90%	N/A	90%	90%	90%	N/A	90%			
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.3			
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.8	0.2	0.0	0.2	0.7	1.0	0.0	2.8			
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Annual % Toward Planned Net Reduction	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	0.3	0.2	N/A	0.2	0.2	0.4	N/A	0.3			
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	0.3	0.2	N/A	0.2	0.2	0.3	N/A	0.3			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	\$236	\$201	\$221	\$195	\$137	\$114	\$120	\$120			
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A	\$0	\$0	\$0	\$0	\$0.09	\$0.09	\$0.09	\$0.09			
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	\$791	\$781	\$857	\$871	\$656	\$459	\$485	\$485			
		\$EM&V per \$Total	11.3%	9.8%	11.8%	13.4%	14.4%	12.8%	12.6%	12.8%	12.8%	11.9%	10.9%	11.4%	11.4%			
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	\$300	\$325	\$325	\$310	\$294	\$295	\$295	\$295			

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**K.5.3 2022-2023 North Carolina Residential Water Savings Program (Phase IX) Measure Indicator Tables**

NC - Residential Water Savings Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Domestic Heat Pump Water Heater	Total Participants	0	4	4
Installed kWh/year	Domestic Heat Pump Water Heater	Total Gross Energy Savings (kWh/yr)	0	6,607	6,607
	Domestic Heat Pump Water Heater	Realization Rate	N/A	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	N/A	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Savings (kWh/yr)	0	5,946	5,946
	Domestic Heat Pump Water Heater	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,652	1,652
	Domestic Heat Pump Water Heater	Avg. Net Savings per Participant (kWh/yr)	N/A	1,487	1,487
Installed Summer peak kW	Domestic Heat Pump Water Heater	Total Gross Demand Reduction (kW)	0.0	0.4	0.4
	Domestic Heat Pump Water Heater	Realization Rate	N/A	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	N/A	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Demand Reduction (kW)	0.0	0.4	0.4
	Domestic Heat Pump Water Heater	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.1
	Domestic Heat Pump Water Heater	Avg. Net Demand Reduction per Participant (kW)	N/A	0.10	0.10
Installed Winter peak kW	Domestic Heat Pump Water Heater	Total Gross Demand Reduction (kW)	-	0.8	0.8
	Domestic Heat Pump Water Heater	Realization Rate	-	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	-	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Demand Reduction (kW)	-	0.7	0.7
	Domestic Heat Pump Water Heater	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2
	Domestic Heat Pump Water Heater	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2
	Pool Pump	Total Participants	0	7	7
Installed kWh/year	Pool Pump	Total Gross Energy Savings (kWh/yr)	0	7,522	7,522
	Pool Pump	Realization Rate	N/A	100%	100%
	Pool Pump	Net-To-Gross Rate	N/A	90%	90%
	Pool Pump	Net Adjusted Savings (kWh/yr)	0	6,770	6,770
	Pool Pump	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,075	1,075
	Pool Pump	Avg. Net Savings per Participant (kWh/yr)	N/A	967	967
Installed Summer peak kW	Pool Pump	Total Gross Demand Reduction (kW)	0.0	2.3	2.3
	Pool Pump	Realization Rate	N/A	100%	100%
	Pool Pump	Net-To-Gross Rate	N/A	90%	90%
	Pool Pump	Net Adjusted Demand Reduction (kW)	0.0	2.1	2.1
	Pool Pump	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	0.3
	Pool Pump	Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.3
Installed Winter peak kW	Pool Pump	Total Gross Demand Reduction (kW)	-	2.3	2.3
	Pool Pump	Realization Rate	-	100%	100%
	Pool Pump	Net-To-Gross Rate	-	90%	90%
	Pool Pump	Net Adjusted Demand Reduction (kW)	-	2.1	2.1
	Pool Pump	Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.3
	Pool Pump	Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.3

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**K.6 North Carolina Residential Appliance Recycling Program (Phase VII) 2019-2023**

**K.6.1 2019–2023 North Carolina Residential Appliance Recycling Program (Phase VII) Annual Indicator Tables**

NC - Residential Appliance Recycling Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate						
O&M (\$)		Direct Implementation						
O&M (\$)		Direct EM&V						
O&M (\$)		Indirect Other (Administrative)						
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$17,270	\$11,552	\$25,314	\$24,687	\$78,823
Costs (\$)		Planned	\$0	\$116,132	\$111,062	\$115,406	\$110,716	\$453,315
Costs (\$)		Variance	\$0	-\$98,861	-\$99,510	-\$90,092	-\$86,029	-\$374,492
		Annual % of Planned	N/A	15%	10%	22%	22%	17%
Participants <sup>1</sup>		Total (Gross)	0	0	0	19	22	41
		Planned	0	570	570	570	570	2,280
		Variance	0	-570	-570	-551	-548	-2,239
		Annual % of Planned (Gross)	N/A	0%	0%	3%	4%	2%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	14,260	15,059	29,319
		Realization Rate Weighted by Measure	N/A	N/A	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	14,260	15,059	29,319
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	60%	60%	60%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	-5,704	-6,024	-11,728
		Net Adjusted Savings (kWh/yr)	0	0	0	8,556	9,036	17,592
		Planned Net Savings (kWh/yr)	0	268,200	268,200	268,200	268,200	1,072,800
		Annual % Toward Planned Net Savings	N/A	0%	0%	3.19%	3.37%	1.64%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	751	685	715
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	450	411	429
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	2.1	2.3	4.4
		Realization Rate Weighted by Measure	N/A	N/A	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	2.1	2.3	4.4
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	60%	60%	60%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	-0.9	-0.9	-1.8
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1.3	1.4	2.6
		Planned Net Savings (kW)	0.0	30.6	30.6	30.6	30.6	122.4
		Annual % Toward Planned Net Reduction	N/A	0%	0%	4.18%	4.42%	2.15%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.1	0.1	0.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.07	0.06	0.06
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	0.7	0.7	1.4
		Realization Rate Weighted by Measure	-	-	-	100%	100%	100%
		Realization Rate Adjustment (kW)	-	-	-	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	0.7	0.7	1.4
		Net-To-Gross Rate Weighted by Measure	-	-	-	60%	60%	60%
		Net-To-Gross Adjustment (kW)	-	-	-	-0.3	-0.3	-0.6
		Net Adjusted Demand Reduction (kW)	-	-	-	0.4	0.4	0.8
		Planned Net Savings (kW)	0.0	0.0	30.6	30.6	30.6	91.8
		Annual % Toward Planned Net Reduction	-	-	-	1.33%	1.41%	0.91%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.04	0.03	0.03
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.02	0.02	0.02
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	\$130	\$101	\$101
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	\$0	\$0	\$0
		\$Admin. per kW (Gross)	N/A	N/A	N/A	\$1,162	\$945	\$945
		\$EM&V per \$Total	N/A	15.3%	24.7%	18.0%	17.4%	17.4%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	\$20	\$20	\$20

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K.6.2 2023 North Carolina Residential Appliance Recycling Program (Phase VII) Monthly Indicator Tables

NC - Residential Appliance Recycling Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	Total
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2023	2023	2023	2023
O&M (\$)		Direct Rebate																
O&M (\$)		Direct Implementation																
O&M (\$)		Direct EM&V																
O&M (\$)		Indirect Other (Administrative)	\$119	\$131	\$126	\$221	\$207	\$129	\$165	\$130	\$113	\$111	\$112	\$105	\$1,688			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$1,756	\$1,938	\$1,871	\$3,269	\$3,063	\$1,911	\$2,439	\$1,924	\$1,686	\$1,644	\$1,658	\$1,547	\$24,687			
Costs (\$)		Planned	\$7,381	\$7,381	\$7,381	\$7,381	\$7,381	\$7,381	\$11,072	\$11,072	\$11,072	\$11,072	\$11,072	\$11,072	\$110,716			
Costs (\$)		Variance	-\$5,625	-\$5,443	-\$5,510	-\$4,112	-\$4,318	-\$5,470	-\$8,632	-\$9,148	-\$9,405	-\$9,428	-\$9,414	-\$9,525	-\$86,029			
		Annual % of Planned	1.6%	3.3%	5.0%	8.0%	10.7%	12.5%	14.7%	16.4%	17.9%	19.4%	20.9%	22.3%	22%			
Participants <sup>1</sup>		Total (Gross)	3	0	10	5	3	0	0	0	0	0	1	0	22			
		Planned	53	47	47	47	47	47	47	47	47	47	47	47	570			
		Variance	-50	-47	-37	-42	-44	-47	-47	-47	-47	-47	-46	-47	-548			
		Annual % of Planned (Gross)	1%	1%	2%	3%	4%	4%	4%	4%	4%	4%	4%	4%	4%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	2,568	0	7,009	2,858	1,888	0	0	0	0	0	736	0	15,059			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Realization Rate Adjusted Savings (kWh/yr)	2,568	0	7,009	2,858	1,888	0	0	0	0	0	736	0	15,059			
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	60%	N/A	N/A	N/A	N/A	N/A	60%	N/A	60%			
		Net-To-Gross Adjustment (kWh/yr)	-1,027	0	-2,804	-1,143	-755	0	0	0	0	0	-294	0	-6,024			
		Net Adjusted Savings (kWh/yr)	1,541	0	4,205	1,715	1,133	0	0	0	0	0	441	0	9,035			
		Planned Net Savings (kWh/yr)	24,938	22,115	22,115	22,115	22,115	22,115	22,115	22,115	22,115	22,115	22,115	22,115	268,200			
		Annual % Toward Planned Net Savings	0.57%	0.57%	2.14%	2.78%	3.20%	3.20%	3.20%	3.20%	3.20%	3.20%	3.37%	3.37%	3.37%			
		Avg. Gross Savings per Participant (kWh/yr)	856	N/A	701	572	629	N/A	N/A	N/A	N/A	N/A	736	N/A	685			
		Avg. Net Savings per Participant (kWh/yr)	514	N/A	421	343	378	N/A	N/A	N/A	N/A	N/A	441	N/A	411			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.4	0.0	1.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.3			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.4	0.0	1.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.3			
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	60%	N/A	N/A	N/A	N/A	N/A	60%	N/A	60%			
		Net-To-Gross Adjustment (kW)	-0.2	0.0	-0.4	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.9			
		Net Adjusted Demand Reduction (kW)	0.2	0.0	0.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.4			
		Planned Net Savings (kW)	2.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	30.6			
		Annual % Toward Planned Net Reduction	0.75%	0.75%	2.81%	3.65%	4.20%	4.20%	4.20%	4.20%	4.20%	4.20%	4.42%	4.42%	4.42%			
		Avg. Gross Demand Reduction per Participant (kW)	0.13	N/A	0.10	0.09	0.09	N/A	N/A	N/A	N/A	N/A	0.11	N/A	0.1			
		Avg. Net Demand Reduction per Participant (kW)	0.08	N/A	0.06	0.05	0.06	N/A	N/A	N/A	N/A	N/A	0.07	N/A	0.06			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	0.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7			
		Net-To-Gross Rate Weighted by Measure	60%	N/A	60%	60%	60%	N/A	N/A	N/A	N/A	N/A	60%	N/A	60%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3			
		Net Adjusted Demand Reduction (kW)	0.1	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4			
		Planned Net Savings (kW)	2.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	30.6			
		Annual % Toward Planned Net Reduction	0.24%	0.24%	0.90%	1.16%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.41%	1.41%	1.41%			
		Avg. Gross Demand Reduction per Participant (kW)	0.04	N/A	0.03	0.03	0.03	N/A	N/A	N/A	N/A	N/A	0.04	N/A	0.03			
		Avg. Net Demand Reduction per Participant (kW)	0.02	N/A	0.02	0.02	0.02	N/A	N/A	N/A	N/A	N/A	0.02	N/A	0.02			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$118	\$124	\$89	\$83	\$82	\$85	\$89	\$93	\$95	\$98	\$99	\$101	\$101			
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
		\$Admin. per kW (Gross)	\$1,031	\$1,083	\$800	\$770	\$767	\$798	\$836	\$866	\$893	\$919	\$921	\$945	\$945			
		\$EM&V per \$Total	18.0%	17.6%	17.6%	17.3%	17.3%	17.5%	17.8%	17.9%	17.9%	17.8%	17.6%	17.4%	17.4%			
		\$Rebate per Participant (Gross)	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20	\$20			

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K.6.3 2019–2023 North Carolina Residential Appliance Recycling Program (Phase VII) Measure Indicator Tables

NC - Residential Appliance Recycling Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Freezer	Total Participants	0	0	0	4	4	8
Installed kWh/year	Freezer	Total Gross Energy Savings (kWh/yr)	0	0	0	3,444	2,750	6,195
	Freezer	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Freezer	Net-To-Gross Rate	N/A	N/A	N/A	60%	60%	60%
	Freezer	Net Adjusted Savings (kWh/yr)	0	0	0	2,067	1,650	3,717
	Freezer	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	861	688	774
	Freezer	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	517	413	465
Installed Summer peak kW	Freezer	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.5	0.4	0.9
	Freezer	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Freezer	Net-To-Gross Rate	N/A	N/A	N/A	60%	60%	60%
	Freezer	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.3	0.2	0.6
	Freezer	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.1	0.1	0.1
	Freezer	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.08	0.06	0.07
Installed Winter peak kW	Freezer	Total Gross Demand Reduction (kW)	-	-	-	0.2	0.1	0.3
	Freezer	Realization Rate	-	-	-	100%	100%	100%
	Freezer	Net-To-Gross Rate	-	-	-	60%	60%	60%
	Freezer	Net Adjusted Demand Reduction (kW)	-	-	-	0.1	0.1	0.2
	Freezer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.04	0.03	0.04
	Freezer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.02	0.02	0.02
	Refrigerator	Total Participants	0	0	0	15	18	33
Installed kWh/year	Refrigerator	Total Gross Energy Savings (kWh/yr)	0	0	0	10,816	12,309	23,125
	Refrigerator	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Refrigerator	Net-To-Gross Rate	N/A	N/A	N/A	60%	60%	60%
	Refrigerator	Net Adjusted Savings (kWh/yr)	0	0	0	6,489	7,385	13,875
	Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	721	684	701
	Refrigerator	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	433	410	420
Installed Summer peak kW	Refrigerator	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	1.6	1.8	3.5
	Refrigerator	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Refrigerator	Net-To-Gross Rate	N/A	N/A	N/A	60%	60%	60%
	Refrigerator	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1.0	1.1	2.1
	Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.1	0.1	0.1
	Refrigerator	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.06	0.06	0.06
Installed Winter peak kW	Refrigerator	Total Gross Demand Reduction (kW)	-	-	-	0.5	0.6	1.1
	Refrigerator	Realization Rate	-	-	-	100%	100%	100%
	Refrigerator	Net-To-Gross Rate	-	-	-	60%	60%	60%
	Refrigerator	Net Adjusted Demand Reduction (kW)	-	-	-	0.3	0.4	0.7
	Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.03	0.03	0.03
	Refrigerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.02	0.02	0.02

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**K.7 North Carolina Residential Home Energy Assessment Program (Phase VII) 2019-2023**

**K.7.1 2019–2023 North Carolina Residential Home Energy Assessment Program (Phase VII) Annual Indicator Tables**

NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate						
O&M (\$)		Direct Implementation						
O&M (\$)		Direct EM&V						
O&M (\$)		Indirect Other (Administrative)						
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$96,955	\$120,947	\$108,763	\$114,518	\$441,184
Costs (\$)		Planned	\$0	\$270,379	\$295,885	\$314,257	\$307,292	\$1,187,812
Costs (\$)		Variance	\$0	-\$173,423	-\$174,938	-\$205,493	-\$192,774	-\$746,629
		Annual % of Planned	N/A	36%	41%	35%	37%	37%
Participants <sup>1</sup>		Total (Gross)	0	17	32	18	8	75
		Planned	0	1,821	2,101	2,043	2,064	8,029
		Variance	0	-1,804	-2,069	-2,025	-2,056	-7,954
		Annual % of Planned (Gross)	N/A	1%	2%	1%	0%	1%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	19,413	70,833	28,587	9,334	128,167
		Realization Rate Weighted by Measure	N/A	22%	23%	40%	40%	28%
		Realization Rate Adjustment (kWh/yr)	0	-15,142	-54,541	-17,152	-5,600	-92,436
		Realization Rate Adjusted Savings (kWh/yr)	0	4,271	16,292	11,435	3,733	35,731
		Net-To-Gross Rate Weighted by Measure	N/A	100%	100%	100%	100%	100%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	4,271	16,292	11,435	3,733	35,731
		Planned Net Savings (kWh/yr)	0	595,385	716,072	739,401	748,394	2,799,252
		Annual % Toward Planned Net Savings	N/A	0.72%	2.28%	1.55%	0.50%	1.28%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	1,142	2,214	1,588	1,167	1,709
		Avg. Net Savings per Participant (kWh/yr)	N/A	251	509	635	467	476
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	1.4	4.4	2.0	0.9	8.8
		Realization Rate Weighted by Measure	N/A	22%	23%	40%	40%	28%
		Realization Rate Adjustment (kW)	0.0	-1.1	-3.4	-1.2	-0.5	-6.3
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.3	1.0	0.8	0.4	2.5
		Net-To-Gross Rate Weighted by Measure	N/A	100%	100%	100%	100%	100%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.3	1.0	0.8	0.4	2.5
		Planned Net Savings (kW)	0.0	278.8	326.9	296.1	291.7	1,193.5
		Annual % Toward Planned Net Reduction	N/A	0.11%	0.31%	0.27%	0.13%	0.21%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.08	0.1	0.1	0.1	0.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.03	0.04	0.05	0.03
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	9.6	4.3	2.0	15.9
		Realization Rate Weighted by Measure	-	-	23%	40%	40%	30%
		Realization Rate Adjustment (kW)	-	-	-7.4	-2.6	-1.2	-11.2
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	2.2	1.7	0.8	4.7
		Net-To-Gross Rate Weighted by Measure	-	-	100%	100%	100%	100%
		Net-To-Gross Adjustment (kW)	-	-	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	-	-	2.2	1.7	0.8	4.7
		Planned Net Savings (kW)	0.0	0.0	923.0	774.4	744.4	2,441.8
		Annual % Toward Planned Net Reduction	-	-	0.24%	0.22%	0.11%	0.19%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.3	0.2	0.3	0.3
		Avg. Net Demand Reduction per Participant (kW)	-	-	0.07	0.09	0.1	0.08
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$296	\$218	\$228	\$306	\$306
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0	\$0	\$0	\$0
		\$Admin. per kW (Gross)	N/A	\$3,488	\$1,819	\$1,939	\$2,618	\$2,618
		\$EM&V per \$Total	N/A	9.2%	8.8%	9.2%	9.7%	9.7%
		\$Rebate per Participant (Gross)	N/A	\$262	\$460	\$439	\$443	\$443

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K.7.2 2023 North Carolina Residential Home Energy Assessment Program (Phase VII) Monthly Indicator Tables

NC - Residential Home Energy Assessment Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$692	\$598	\$788	\$646	\$716	\$699	\$610	\$603	\$617	\$624	\$578	\$571	\$7,739	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$10,235	\$8,849	\$11,636	\$9,559	\$10,594	\$10,347	\$9,027	\$8,918	\$9,127	\$9,231	\$8,650	\$8,447	\$114,518	
Costs (\$)		Planned	\$20,486	\$20,486	\$20,486	\$20,486	\$20,486	\$20,486	\$30,729	\$30,729	\$30,729	\$30,729	\$30,729	\$30,729	\$307,292	
Costs (\$)		Variance	-\$10,251	-\$11,637	-\$8,850	-\$10,927	-\$9,893	-\$10,140	-\$21,702	-\$21,811	-\$21,603	-\$21,499	-\$22,179	-\$22,282	-\$192,774	
		Annual % of Planned	3.3%	6.2%	10.0%	13.1%	16.6%	19.9%	22.9%	25.8%	28.7%	31.7%	34.5%	37.3%	37%	
Participants*		Total (Gross)	3	2	0	0	2	1	0	0	0	0	0	0	8	
		Planned	172	172	172	172	172	172	172	172	172	172	172	172	2,064	
		Variance	-169	-170	-172	-172	-170	-171	-172	-172	-172	-172	-172	-172	-2,056	
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	3,501	2,342	0	0	1,841	1,650	0	0	0	0	0	0	9,334	
		Realization Rate Weighted by Measure	40%	40%	N/A	N/A	40%	40%	N/A	N/A	N/A	N/A	N/A	N/A	40%	
		Realization Rate Adjustment (kWh/yr)	-2,100	-1,405	0	0	-1,104	-990	0	0	0	0	0	0	-5,600	
		Realization Rate Adjusted Savings (kWh/yr)	1,400	937	0	0	736	660	0	0	0	0	0	0	3,733	
		Net-To-Gross Rate Weighted by Measure	100%	100%	N/A	N/A	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%	
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Net Adjusted Savings (kWh/yr)	1,400	937	0	0	736	660	0	0	0	0	0	0	3,733	
		Planned Net Savings (kWh/yr)	62,366	62,366	62,366	62,366	62,366	62,366	62,366	62,366	62,366	62,366	62,366	62,366	748,394	
		Annual % Toward Planned Net Savings	0.19%	0.31%	0.31%	0.31%	0.41%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	
		Avg. Gross Savings per Participant (kWh/yr)	1,167	1,171	N/A	N/A	920	1,650	N/A	N/A	N/A	N/A	N/A	N/A	1,167	
		Avg. Net Savings per Participant (kWh/yr)	467	468	N/A	N/A	368	660	N/A	N/A	N/A	N/A	N/A	N/A	467	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.4	0.2	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
		Realization Rate Weighted by Measure	40%	40%	N/A	N/A	40%	40%	N/A	N/A	N/A	N/A	N/A	N/A	40%	
		Realization Rate Adjustment (kW)	-0.2	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.5	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
		Net-To-Gross Rate Weighted by Measure	100%	100%	N/A	N/A	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net Adjusted Demand Reduction (kW)	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
		Planned Net Savings (kW)	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	291.7	
		Annual % Toward Planned Net Reduction	0.05%	0.08%	0.08%	0.08%	0.10%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	
		Avg. Gross Demand Reduction per Participant (kW)	0.12	0.10	N/A	N/A	0.10	0.16	N/A	N/A	N/A	N/A	N/A	N/A	0.1	
		Avg. Net Demand Reduction per Participant (kW)	0.05	0.04	N/A	N/A	0.04	0.06	N/A	N/A	N/A	N/A	N/A	N/A	0.05	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.8	0.5	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	
		Realization Rate Weighted by Measure	40%	40%	N/A	N/A	40%	40%	N/A	N/A	N/A	N/A	N/A	N/A	40%	
		Realization Rate Adjustment (kW)	-0.5	-0.3	0.0	0.0	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	-1.2	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.3	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	
		Net-To-Gross Rate Weighted by Measure	100%	100%	N/A	N/A	100%	100%	N/A	N/A	N/A	N/A	N/A	N/A	100%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Net Adjusted Demand Reduction (kW)	0.3	0.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	
		Planned Net Savings (kW)	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	744.4	
		Annual % Toward Planned Net Reduction	0.04%	0.07%	0.07%	0.07%	0.09%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	
		Avg. Gross Demand Reduction per Participant (kW)	0.3	0.2	N/A	N/A	0.2	0.4	N/A	N/A	N/A	N/A	N/A	N/A	0.3	
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.09	N/A	N/A	0.08	0.1	N/A	N/A	N/A	N/A	N/A	N/A	0.1	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$228	\$230	\$241	\$250	\$252	\$258	\$267	\$275	\$283	\$291	\$299	\$306	\$306	
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$Admin. per kW (Gross)	\$1,937	\$1,961	\$2,055	\$2,131	\$2,167	\$2,208	\$2,277	\$2,346	\$2,416	\$2,487	\$2,553	\$2,618	\$2,618	
		\$EM&V per \$Total	9.0%	8.8%	9.4%	9.6%	9.7%	9.8%	9.8%	9.9%	9.9%	9.9%	9.8%	9.7%	9.7%	
		\$Rebate per Participant (Gross)	\$442	\$442	\$442	\$442	\$440	\$443	\$443	\$443	\$443	\$443	\$443	\$443	\$443	

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K.7.3 2019–2023 North Carolina Residential Home Energy Assessment Program (Phase VII) Measure Indicator Tables

NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Cool Roof	Total Participants	0	0	0	0	0	0
Installed kWh/year	Cool Roof	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0
	Cool Roof	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0
	Cool Roof	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Cool Roof	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Cool Roof	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Cool Roof	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
	Cool Roof	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Cool Roof	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Cool Roof	Realization Rate	-	-	-	-	-	N/A
	Cool Roof	Net-To-Gross Rate	-	-	-	-	-	N/A
	Cool Roof	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Cool Roof	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Cool Roof	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Insulation	Total Participants	0	0	0	0	0	0
Installed kWh/year	Duct Insulation	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0
	Duct Insulation	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0
	Duct Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Duct Insulation	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Duct Insulation	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Duct Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
	Duct Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Duct Insulation	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Duct Insulation	Realization Rate	-	-	-	-	-	N/A
	Duct Insulation	Net-To-Gross Rate	-	-	-	-	-	N/A
	Duct Insulation	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Duct Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Insulation	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Sealing	Total Participants	0	1	0	0	0	1
Installed kWh/year	Duct Sealing	Total Gross Energy Savings (kWh/yr)	0	616	0	0	0	616
	Duct Sealing	Realization Rate	N/A	22%	N/A	N/A	N/A	22%
	Duct Sealing	Net-To-Gross Rate	N/A	100%	N/A	N/A	N/A	100%
	Duct Sealing	Net Adjusted Savings (kWh/yr)	0	136	0	0	0	136
	Duct Sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	616	N/A	N/A	N/A	616
	Duct Sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	136	N/A	N/A	N/A	136
Installed Summer peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	0.0	0.3	0.0	0.0	0.0	0.3
	Duct Sealing	Realization Rate	N/A	22%	N/A	N/A	N/A	22%
	Duct Sealing	Net-To-Gross Rate	N/A	100%	N/A	N/A	N/A	100%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	0.0	0.1	0.0	0.0	0.0	0.1
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	N/A	N/A	N/A	0.3
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	0.06	N/A	N/A	N/A	0.06
Installed Winter peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0

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NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Duct Sealing	Realization Rate	-	-	-	-	-	N/A
	Duct Sealing	Net-To-Gross Rate	-	-	-	-	-	N/A
	Duct Sealing	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	ECM Fan Motor	Total Participants	0	0	0	0	0	0
Installed kWh/year	ECM Fan Motor	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0
	ECM Fan Motor	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0
	ECM Fan Motor	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	ECM Fan Motor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	ECM Fan Motor	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	ECM Fan Motor	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
	ECM Fan Motor	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	ECM Fan Motor	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	ECM Fan Motor	Realization Rate	-	-	-	-	-	N/A
	ECM Fan Motor	Net-To-Gross Rate	-	-	-	-	-	N/A
	ECM Fan Motor	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	ECM Fan Motor	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	ECM Fan Motor	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Heat Pump Tune Up	Total Participants	0	1	5	3	0	9
Installed kWh/year	Heat Pump Tune Up	Total Gross Energy Savings (kWh/yr)	0	356	1,483	955	0	2,794
	Heat Pump Tune Up	Realization Rate	N/A	22%	23%	40%	N/A	29%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	100%	100%	100%	N/A	100%
	Heat Pump Tune Up	Net Adjusted Savings (kWh/yr)	0	78	341	382	0	801
	Heat Pump Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	356	297	318	N/A	310
	Heat Pump Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	78	68	127	N/A	89
Installed Summer peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	0.0	0.3	0.7	0.4	0.0	1.4
	Heat Pump Tune Up	Realization Rate	N/A	22%	23%	40%	N/A	28%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	100%	100%	100%	N/A	100%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	0.0	0.1	0.2	0.2	0.0	0.4
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	0.1	0.1	N/A	0.2
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	0.07	0.03	0.05	N/A	0.04
Installed Winter peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	-	-	0.9	0.6	0.0	1.6
	Heat Pump Tune Up	Realization Rate	-	-	23%	40%	N/A	30%
	Heat Pump Tune Up	Net-To-Gross Rate	-	-	100%	100%	N/A	100%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	-	-	0.2	0.3	0.0	0.5
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.2	0.2	N/A	0.2
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	-	0.04	0.09	N/A	0.06
	Heat Pump Upgrade	Total Participants	0	0	1	0	0	1
Installed kWh/year	Heat Pump Upgrade	Total Gross Energy Savings (kWh/yr)	0	0	930	0	0	930
	Heat Pump Upgrade	Realization Rate	N/A	N/A	23%	N/A	N/A	23%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	N/A	100%	N/A	N/A	100%
	Heat Pump Upgrade	Net Adjusted Savings (kWh/yr)	0	0	214	0	0	214
	Heat Pump Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	930	N/A	N/A	930
	Heat Pump Upgrade	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	214	N/A	N/A	214
Installed Summer peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	0.0	0.0	0.3	0.0	0.0	0.3
	Heat Pump Upgrade	Realization Rate	N/A	N/A	23%	N/A	N/A	23%



NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	N/A	100%	N/A	N/A	100%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1	0.0	0.0	0.1
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.3	N/A	N/A	0.3
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.07	N/A	N/A	0.07
Installed Winter peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	-	-	0.5	0.0	0.0	0.5
	Heat Pump Upgrade	Realization Rate	-	-	23%	N/A	N/A	23%
	Heat Pump Upgrade	Net-To-Gross Rate	-	-	100%	N/A	N/A	100%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	-	-	0.1	0.0	0.0	0.1
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.5	N/A	N/A	0.5
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	0.1	N/A	N/A	0.1
	Hot Water Pipe Insulation	Total Participants	0	8	7	0	0	15
Installed kWh/year	Hot Water Pipe Insulation	Total Gross Energy Savings (kWh/yr)	0	609	712	0	0	1,321
	Hot Water Pipe Insulation	Realization Rate	N/A	22%	23%	N/A	N/A	23%
	Hot Water Pipe Insulation	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	100%
	Hot Water Pipe Insulation	Net Adjusted Savings (kWh/yr)	0	134	164	0	0	298
	Hot Water Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	76	102	N/A	N/A	88
	Hot Water Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	17	23	N/A	N/A	20
Installed Summer peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	0.0	0.1	0.1	0.0	0.0	0.2
	Hot Water Pipe Insulation	Realization Rate	N/A	22%	23%	N/A	N/A	23%
	Hot Water Pipe Insulation	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	100%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	N/A	N/A	0.01
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	N/A	N/A	0.00
Installed Winter peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	-	-	0.1	0.0	0.0	0.1
	Hot Water Pipe Insulation	Realization Rate	-	-	23%	N/A	N/A	23%
	Hot Water Pipe Insulation	Net-To-Gross Rate	-	-	100%	N/A	N/A	100%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	N/A	N/A	0.01
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	N/A	N/A	0.00
	Lighting	Total Participants	0	11	26	15	8	60
Installed kWh/year	Lighting	Total Gross Energy Savings (kWh/yr)	0	17,387	66,118	27,632	9,334	120,471
	Lighting	Realization Rate	N/A	22%	23%	40%	40%	28%
	Lighting	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%
	Lighting	Net Adjusted Savings (kWh/yr)	0	3,825	15,207	11,053	3,733	33,819
	Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,581	2,543	1,842	1,167	2,008
	Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	348	585	737	467	564
Installed Summer peak kW	Lighting	Total Gross Demand Reduction (kW)	0.0	0.7	3.3	1.6	0.9	6.6
	Lighting	Realization Rate	N/A	22%	23%	40%	40%	29%
	Lighting	Net-To-Gross Rate	N/A	100%	100%	100%	100%	100%
	Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.8	0.6	0.4	1.9
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.07	0.1	0.1	0.1	0.1
	Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.03	0.04	0.05	0.03
Installed Winter peak kW	Lighting	Total Gross Demand Reduction (kW)	-	-	8.1	3.6	2.0	13.7
	Lighting	Realization Rate	-	-	23%	40%	40%	30%
	Lighting	Net-To-Gross Rate	-	-	100%	100%	100%	100%
	Lighting	Net Adjusted Demand Reduction (kW)	-	-	1.9	1.4	0.8	4.1
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.3	0.2	0.3	0.3
	Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	0.07	0.10	0.1	0.08
	Water Distribution	Total Participants	0	8	6	0	0	14
Installed kWh/year	Water Distribution	Total Gross Energy Savings (kWh/yr)	0	445	1,589	0	0	2,035
	Water Distribution	Realization Rate	N/A	22%	23%	N/A	N/A	23%
	Water Distribution	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	100%



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NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Water Distribution	Net Adjusted Savings (kWh/yr)	0	98	366	0	0	464
	Water Distribution	Avg. Gross Savings per Participant (kWh/yr)	N/A	56	265	N/A	N/A	145
	Water Distribution	Avg. Net Savings per Participant (kWh/yr)	N/A	12	61	N/A	N/A	33
Installed Summer peak kW	Water Distribution	Total Gross Demand Reduction (kW)	0.0	0.0	0.1	0.0	0.0	0.1
	Water Distribution	Realization Rate	N/A	22%	23%	N/A	N/A	23%
	Water Distribution	Net-To-Gross Rate	N/A	100%	100%	N/A	N/A	100%
	Water Distribution	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.01	N/A	N/A	0.01
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	N/A	N/A	0.00
Installed Winter peak kW	Water Distribution	Total Gross Demand Reduction (kW)	-	-	0.1	0.0	0.0	0.1
	Water Distribution	Realization Rate	-	-	23%	N/A	N/A	23%
	Water Distribution	Net-To-Gross Rate	-	-	100%	N/A	N/A	100%
	Water Distribution	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.01	N/A	N/A	0.01
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	-	-	0.00	N/A	N/A	0.00
Installed kWh/year	Water Heater Replacement	Total Participants	0	0	0	0	0	0
	Water Heater Replacement	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0
	Water Heater Replacement	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0
	Water Heater Replacement	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Water Heater Replacement	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Water Heater Replacement	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Water Heater Replacement	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Replacement	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Water Heater Replacement	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Replacement	Realization Rate	-	-	-	-	-	N/A
	Water Heater Replacement	Net-To-Gross Rate	-	-	-	-	-	N/A
	Water Heater Replacement	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Replacement	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Water Heater Replacement	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
Installed kWh/year	Water Heater Turndown 10 Degrees	Total Participants	0	0	0	0	0	0
	Water Heater Turndown 10 Degrees	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0
	Water Heater Turndown 10 Degrees	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0
	Water Heater Turndown 10 Degrees	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Water Heater Turndown 10 Degrees	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Water Heater Turndown 10 Degrees	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Water Heater Turndown 10 Degrees	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
	Water Heater Turndown 10 Degrees	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Water Heater Turndown 10 Degrees	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Turndown 10 Degrees	Realization Rate	-	-	-	-	-	N/A
	Water Heater Turndown 10 Degrees	Net-To-Gross Rate	-	-	-	-	-	N/A
	Water Heater Turndown 10 Degrees	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Water Heater Turndown 10 Degrees	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-

NC - Residential Home Energy Assessment Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Water Heater Turndown 10 Degrees	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-





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**K.8 North Carolina Residential Home Retrofit Program (Phase VIII) 2020-2023**

**K.8.1 2020-2023 North Carolina Residential Home Retrofit Program (Phase VIII) Annual Indicator Tables**

NC - Residential Home Retrofit Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate					
O&M (\$)		Direct Implementation					
O&M (\$)		Direct EM&V					
O&M (\$)		Indirect Other (Administrative)					
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$35,738	\$48,397	\$50,642	\$134,778
Costs (\$)		Planned	\$0	\$81,417	\$119,576	\$131,208	\$332,202
Costs (\$)		Variance	\$0	-\$45,678	-\$71,179	-\$80,566	-\$197,424
		Annual % of Planned	N/A	44%	40%	39%	41%
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0
		Planned	0	54	120	150	324
		Variance	0	-54	-120	-150	-324
		Annual % of Planned (Gross)	N/A	0%	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0
		Planned Net Savings (kWh/yr)	0	105,039	233,421	291,776	630,236
		Annual % Toward Planned Net Savings	N/A	0%	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	30.2	67.0	83.8	181.0
		Annual % Toward Planned Net Reduction	N/A	0%	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	0.0
		Realization Rate Weighted by Measure	-	-	-	-	N/A
		Realization Rate Adjustment (kW)	-	-	-	-	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	N/A
		Net-To-Gross Adjustment (kW)	-	-	-	-	0.0
		Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0
		Planned Net Savings (kW)	0.0	11.2	24.8	31.0	66.9
		Annual % Toward Planned Net Reduction	-	-	-	-	0%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A
		\$EM&V per \$Total	N/A	6.9%	14.2%	14.2%	14.2%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A

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K.8.2 2023 North Carolina Residential Home Retrofit Program (Phase VIII) Monthly Indicator Tables

NC - Residential Home Retrofit Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total		
O&M (\$)		Direct Rebate															
O&M (\$)		Direct Implementation															
O&M (\$)		Direct EM&V															
O&M (\$)		Indirect Other (Administrative)	\$279	\$256	\$293	\$281	\$286	\$285	\$288	\$331	\$272	\$297	\$296	\$257	\$3,422		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)	Total		\$4,125	\$3,785	\$4,342	\$4,162	\$4,232	\$4,220	\$4,269	\$4,899	\$4,031	\$4,390	\$4,377	\$3,809	\$50,642		
Costs (\$)	Planned		\$8,747	\$8,747	\$8,747	\$8,747	\$8,747	\$8,747	\$13,121	\$13,121	\$13,121	\$13,121	\$13,121	\$13,121	\$131,208		
Costs (\$)	Variance		-\$4,622	-\$4,962	-\$4,405	-\$4,585	-\$4,515	-\$4,527	-\$8,852	-\$8,222	-\$9,089	-\$8,731	-\$8,744	-\$9,312	-\$80,566		
	Annual % of Planned		3.1%	6.0%	9.3%	12.5%	15.7%	19.0%	22.2%	25.9%	29.0%	32.4%	35.7%	38.6%	39%		
Participants <sup>1</sup>	Total (Gross)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Planned		18	12	12	12	12	12	12	12	12	12	12	12	150		
	Variance		-18	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-12	-150		
	Annual % of Planned (Gross)		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Planned Net Savings (kWh/yr)	35,013	23,342	23,342	23,342	23,342	23,342	23,342	23,342	23,342	23,342	23,342	23,342	291,776		
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	83.8		
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Planned Net Savings (kW)	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	31.0		
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		\$EM&V per \$Total	14.0%	13.6%	13.6%	13.7%	13.9%	14.0%	14.2%	14.2%	14.2%	14.3%	14.4%	14.2%	14.2%		
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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### K.9 North Carolina Residential Income and Age Qualifying Home Improvement Program (Phase IX) 2022-2023

#### K.9.1 2022–2023 North Carolina Residential Income and Age Qualifying Home Improvement Program (Phase IX) Annual Indicator Tables

NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
O&M (\$)		Direct Rebate			
O&M (\$)		Direct Implementation			
O&M (\$)		Direct EM&V			
O&M (\$)		Indirect Other (Administrative)			
Capital (\$)		Direct Implementation	\$0	\$0	\$0
Costs (\$)		Total	\$141,404	\$116,007	\$257,411
Costs (\$)		Planned	\$309,337	\$442,311	\$751,648
Costs (\$)		Variance	-\$167,933	-\$326,304	-\$494,237
		Annual % of Planned	46%	26%	34%
Participants <sup>1</sup>		Total (Gross)	26	14	40
		Planned	621	621	1,242
		Variance	-595	-607	-1,202
		Annual % of Planned (Gross)	4%	2%	3%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	47,257	35,341	82,598
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	47,257	35,341	82,598
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	-9,451	-7,068	-16,520
		Net Adjusted Savings (kWh/yr)	37,806	28,273	66,079
		Planned Net Savings (kWh/yr)	32,789	32,789	65,578
		Annual % Toward Planned Net Savings	115.3%	86.2%	100.8%
		Avg. Gross Savings per Participant (kWh/yr)	1,818	2,524	2,065
		Avg. Net Savings per Participant (kWh/yr)	1,454	2,019	1,652
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	15.6	7.9	23.4
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	15.6	7.9	23.4
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%
		Net-To-Gross Adjustment (kW)	-3.1	-1.6	-4.7
		Net Adjusted Demand Reduction (kW)	12.5	6.3	18.8
		Planned Net Savings (kW)	8.4	8.4	16.9
		Annual % Toward Planned Net Reduction	147.9%	74.5%	111.2%
		Avg. Gross Demand Reduction per Participant (kW)	0.6	0.6	0.6
		Avg. Net Demand Reduction per Participant (kW)	0.5	0.4	0.5
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	26.5	24.4	50.9
		Realization Rate Weighted by Measure	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	26.5	24.4	50.9
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%
		Net-To-Gross Adjustment (kW)	-5.3	-4.9	-10.2
		Net Adjusted Demand Reduction (kW)	21.2	19.5	40.7
		Planned Net Savings (kW)	18.7	18.7	37.5
		Annual % Toward Planned Net Reduction	113.1%	103.9%	108.5%
		Avg. Gross Demand Reduction per Participant (kW)	1.0	1.7	1.3
		Avg. Net Demand Reduction per Participant (kW)	0.8	1.4	1.0
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$227	\$344	\$344
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0
		\$Admin. per kW (Gross)	\$379	\$586	\$586
		\$EM&V per \$Total	3.3%	5.1%	5.1%
		\$Rebate per Participant (Gross)	\$3,536	\$3,904	\$3,904

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K.9.2 2023 North Carolina Residential Income and Age Qualifying Home Improvement Program (Phase IX) Monthly Indicator Tables

NC - Residential Income and Age Qualifying Energy Efficiency Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total			
O&M (\$)		Direct Rebate																
O&M (\$)		Direct Implementation																
O&M (\$)		Direct EM&V																
O&M (\$)		Indirect Other (Administrative)	\$540	\$202	\$473	\$753	\$1,874	\$1,106	\$1,620	\$553	\$184	\$182	\$177	\$176	\$7,838			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$7,987	\$2,995	\$6,994	\$11,151	\$27,729	\$16,368	\$23,969	\$8,187	\$2,718	\$2,698	\$2,615	\$2,599	\$116,007			
Costs (\$)		Planned	\$29,487	\$29,487	\$29,487	\$29,487	\$29,487	\$29,487	\$44,231	\$44,231	\$44,231	\$44,231	\$44,231	\$44,231	\$442,311			
Costs (\$)		Variance	-\$21,501	-\$26,493	-\$22,494	-\$18,336	-\$1,759	-\$13,119	-\$20,262	-\$36,044	-\$41,513	-\$41,535	-\$41,616	-\$41,632	-\$326,304			
		Annual % of Planned	1.8%	2.5%	4.1%	6.8%	12.9%	16.6%	22.0%	23.8%	24.4%	25.0%	25.6%	26.2%	28%			
Participants <sup>1</sup>		Total (Gross)	1	0	1	2	4	2	3	1	0	0	0	0	14			
		Planned	60	51	51	51	51	51	51	51	51	51	51	51	621			
		Variance	-59	-51	-50	-49	-47	-49	-48	-50	-51	-51	-51	-51	-607			
		Annual % of Planned (Gross)	0%	0%	0%	1%	1%	2%	2%	2%	2%	2%	2%	2%	2%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	1,110	0	1,273	1,854	13,349	9,845	5,971	1,940	0	0	0	0	35,341			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%			
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Realization Rate Adjusted Savings (kWh/yr)	1,110	0	1,273	1,854	13,349	9,845	5,971	1,940	0	0	0	0	35,341			
		Net-To-Gross Rate Weighted by Measure	80%	N/A	80%	80%	80%	80%	80%	80%	N/A	N/A	N/A	N/A	80%			
		Net-To-Gross Adjustment (kWh/yr)	-222	0	-255	-371	-2,670	-1,969	-1,194	-388	0	0	0	0	-7,088			
		Net Adjusted Savings (kWh/yr)	888	0	1,018	1,483	10,679	7,876	4,776	1,552	0	0	0	0	28,273			
		Planned Net Savings (kWh/yr)	3,168	2,693	2,693	2,693	2,693	2,693	2,693	2,693	2,693	2,693	2,693	2,693	32,789			
		Annual % Toward Planned Net Savings	2.71%	2.71%	5.81%	10.3%	42.9%	66.9%	81.5%	86.2%	86.2%	86.2%	86.2%	86.2%	86.2%			
		Avg. Gross Savings per Participant (kWh/yr)	1,110	N/A	1,273	927	3,337	4,923	1,990	1,940	N/A	N/A	N/A	N/A	2,524			
		Avg. Net Savings per Participant (kWh/yr)	888	N/A	1,018	741	2,670	3,938	1,592	1,552	N/A	N/A	N/A	N/A	2,019			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.1	0.0	0.4	0.2	2.9	2.6	1.2	0.4	0.0	0.0	0.0	0.0	7.9			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.1	0.0	0.4	0.2	2.9	2.6	1.2	0.4	0.0	0.0	0.0	0.0	7.9			
		Net-To-Gross Rate Weighted by Measure	80%	N/A	80%	80%	80%	80%	80%	80%	N/A	N/A	N/A	N/A	80%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	-0.1	0.0	-0.6	-0.5	-0.2	-0.1	0.0	0.0	0.0	0.0	-1.6			
		Net Adjusted Demand Reduction (kW)	0.1	0.0	0.3	0.2	2.3	2.1	1.0	0.3	0.0	0.0	0.0	0.0	6.3			
		Planned Net Savings (kW)	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	8.4			
		Annual % Toward Planned Net Reduction	1.20%	1.20%	4.92%	6.97%	34.5%	59.1%	70.6%	74.5%	74.5%	74.5%	74.5%	74.5%	74.5%			
		Avg. Gross Demand Reduction per Participant (kW)	0.13	N/A	0.39	0.11	0.72	1.3	0.40	0.41	N/A	N/A	N/A	N/A	0.6			
		Avg. Net Demand Reduction per Participant (kW)	0.1	N/A	0.3	0.09	0.6	1.0	0.3	0.3	N/A	N/A	N/A	N/A	0.4			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.6	0.0	0.1	1.5	8.0	8.6	4.1	1.4	0.0	0.0	0.0	0.0	24.4			
		Realization Rate Weighted by Measure	100%	N/A	100%	100%	100%	100%	100%	100%	N/A	N/A	N/A	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.6	0.0	0.1	1.5	8.0	8.6	4.1	1.4	0.0	0.0	0.0	0.0	24.4			
		Net-To-Gross Rate Weighted by Measure	80%	N/A	80%	80%	80%	80%	80%	80%	N/A	N/A	N/A	N/A	80%			
		Net-To-Gross Adjustment (kW)	-0.1	0.0	0.0	-0.3	-1.6	-1.7	-0.8	-0.3	0.0	0.0	0.0	0.0	-4.9			
		Net Adjusted Demand Reduction (kW)	0.5	0.0	0.1	1.2	6.4	6.9	3.3	1.1	0.0	0.0	0.0	0.0	19.5			
		Planned Net Savings (kW)	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	18.7			
		Annual % Toward Planned Net Reduction	2.61%	2.61%	3.14%	9.33%	43.7%	80.5%	98.1%	103.9%	103.9%	103.9%	103.9%	103.9%	103.9%			
		Avg. Gross Demand Reduction per Participant (kW)	0.6	N/A	0.1	0.7	2.0	4.3	1.4	1.4	N/A	N/A	N/A	N/A	1.7			
		Avg. Net Demand Reduction per Participant (kW)	0.5	N/A	0.10	0.6	1.6	3.5	1.1	1.1	N/A	N/A	N/A	N/A	1.4			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$239	\$246	\$254	\$262	\$287	\$301	\$320	\$326	\$330	\$335	\$339	\$344	\$344			
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
		\$Admin. per kW (Gross)	\$410	\$423	\$442	\$482	\$507	\$497	\$542	\$556	\$563	\$571	\$579	\$586	\$586			
		\$EM&V per \$Total	3.6%	4.0%	4.3%	4.3%	4.3%	4.6%	4.5%	4.7%	4.8%	4.9%	5.0%	5.1%	5.1%			
		\$Rebate per Participant (Gross)	\$3,555	\$3,555	\$3,541	\$3,530	\$3,684	\$3,763	\$3,899	\$3,904	\$3,904	\$3,904	\$3,904	\$3,904	\$3,904			

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K.9.3 2022–2023 North Carolina Residential Income and Age Qualifying Home Improvement Program (Phase IX) Measure Indicator Tables

NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	40W LED	Total Participants	9	2	11
Installed kWh/year	40W LED	Total Gross Energy Savings (kWh/yr)	1,132	412	1,544
	40W LED	Realization Rate	100%	100%	100%
	40W LED	Net-To-Gross Rate	80%	80%	80%
	40W LED	Net Adjusted Savings (kWh/yr)	905	330	1,235
	40W LED	Avg. Gross Savings per Participant (kWh/yr)	126	206	140
	40W LED	Avg. Net Savings per Participant (kWh/yr)	101	165	112
Installed Summer peak kW	40W LED	Total Gross Demand Reduction (kW)	0.1	0.0	0.1
	40W LED	Realization Rate	100%	100%	100%
	40W LED	Net-To-Gross Rate	80%	80%	80%
	40W LED	Net Adjusted Demand Reduction (kW)	0.1	0.0	0.1
	40W LED	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.02	0.01
	40W LED	Avg. Net Demand Reduction per Participant (kW)	0.01	0.02	0.01
Installed Winter peak kW	40W LED	Total Gross Demand Reduction (kW)	0.2	0.1	0.3
	40W LED	Realization Rate	100%	100%	100%
	40W LED	Net-To-Gross Rate	80%	80%	80%
	40W LED	Net Adjusted Demand Reduction (kW)	0.2	0.1	0.2
	40W LED	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.04	0.03
	40W LED	Avg. Net Demand Reduction per Participant (kW)	0.02	0.03	0.02
Installed kWh/year	60W LED	Total Participants	13	12	25
	60W LED	Total Gross Energy Savings (kWh/yr)	2,443	2,677	5,120
	60W LED	Realization Rate	100%	100%	100%
	60W LED	Net-To-Gross Rate	80%	80%	80%
	60W LED	Net Adjusted Savings (kWh/yr)	1,954	2,142	4,096
	60W LED	Avg. Gross Savings per Participant (kWh/yr)	188	223	205
Installed Summer peak kW	60W LED	Total Gross Demand Reduction (kW)	0.2	0.2	0.5
	60W LED	Realization Rate	100%	100%	100%
	60W LED	Net-To-Gross Rate	80%	80%	80%
	60W LED	Net Adjusted Demand Reduction (kW)	0.2	0.2	0.4
	60W LED	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02
	60W LED	Avg. Net Demand Reduction per Participant (kW)	0.01	0.02	0.01
Installed Winter peak kW	60W LED	Total Gross Demand Reduction (kW)	0.5	0.5	1.0
	60W LED	Realization Rate	100%	100%	100%
	60W LED	Net-To-Gross Rate	80%	80%	80%
	60W LED	Net Adjusted Demand Reduction (kW)	0.4	0.4	0.8
	60W LED	Avg. Gross Demand Reduction per Participant (kW)	0.04	0.04	0.04
	60W LED	Avg. Net Demand Reduction per Participant (kW)	0.03	0.03	0.03
Installed kWh/year	Admin	Total Participants	26	11	37
	Admin	Total Gross Energy Savings (kWh/yr)	0	0	0
	Admin	Realization Rate	N/A	N/A	N/A
	Admin	Net-To-Gross Rate	N/A	N/A	N/A
	Admin	Net Adjusted Savings (kWh/yr)	0	0	0
	Admin	Avg. Gross Savings per Participant (kWh/yr)	0	0	0
Installed Summer peak kW	Admin	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Admin	Realization Rate	N/A	N/A	N/A
	Admin	Net-To-Gross Rate	N/A	N/A	N/A
	Admin	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Admin	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0
	Admin	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0
Installed Winter peak kW	Admin	Total Gross Demand Reduction (kW)	-	-	0.0

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NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Admin	Realization Rate	-	-	N/A
	Admin	Net-To-Gross Rate	-	-	N/A
	Admin	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Admin	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Admin	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Air Conditioner Tune Up	Total Participants	0	0	0
Installed kWh/year	Air Conditioner Tune Up	Total Gross Energy Savings (kWh/yr)	0	0	0
	Air Conditioner Tune Up	Realization Rate	N/A	N/A	N/A
	Air Conditioner Tune Up	Net-To-Gross Rate	N/A	N/A	N/A
	Air Conditioner Tune Up	Net Adjusted Savings (kWh/yr)	0	0	0
	Air Conditioner Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Air Conditioner Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Air Conditioner Tune Up	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Air Conditioner Tune Up	Realization Rate	N/A	N/A	N/A
	Air Conditioner Tune Up	Net-To-Gross Rate	N/A	N/A	N/A
	Air Conditioner Tune Up	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Air Conditioner Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Air Conditioner Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Air Conditioner Tune Up	Total Gross Demand Reduction (kW)	-	-	0.0
	Air Conditioner Tune Up	Realization Rate	-	-	N/A
	Air Conditioner Tune Up	Net-To-Gross Rate	-	-	N/A
	Air Conditioner Tune Up	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Air Conditioner Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Air Conditioner Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Air Sealing	Total Participants	21	14	35
Installed kWh/year	Air Sealing	Total Gross Energy Savings (kWh/yr)	1,445	2,451	3,896
	Air Sealing	Realization Rate	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	80%	80%	80%
	Air Sealing	Net Adjusted Savings (kWh/yr)	1,156	1,961	3,117
	Air Sealing	Avg. Gross Savings per Participant (kWh/yr)	69	175	111
	Air Sealing	Avg. Net Savings per Participant (kWh/yr)	55	140	89
Installed Summer peak kW	Air Sealing	Total Gross Demand Reduction (kW)	0.3	0.2	0.4
	Air Sealing	Realization Rate	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	80%	80%	80%
	Air Sealing	Net Adjusted Demand Reduction (kW)	0.2	0.1	0.3
	Air Sealing	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01
	Air Sealing	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
Installed Winter peak kW	Air Sealing	Total Gross Demand Reduction (kW)	1.8	2.9	4.7
	Air Sealing	Realization Rate	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	80%	80%	80%
	Air Sealing	Net Adjusted Demand Reduction (kW)	1.4	2.3	3.7
	Air Sealing	Avg. Gross Demand Reduction per Participant (kW)	0.09	0.2	0.1
	Air Sealing	Avg. Net Demand Reduction per Participant (kW)	0.07	0.2	0.1
	Attic Insulation	Total Participants	14	8	22
Installed kWh/year	Attic Insulation	Total Gross Energy Savings (kWh/yr)	16,022	15,620	31,642
	Attic Insulation	Realization Rate	100%	100%	100%
	Attic Insulation	Net-To-Gross Rate	80%	80%	80%
	Attic Insulation	Net Adjusted Savings (kWh/yr)	12,818	12,496	25,313
	Attic Insulation	Avg. Gross Savings per Participant (kWh/yr)	1,144	1,952	1,438
	Attic Insulation	Avg. Net Savings per Participant (kWh/yr)	916	1,562	1,151
Installed Summer peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	7.1	4.2	11.3
	Attic Insulation	Realization Rate	100%	100%	100%



NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Attic Insulation	Net-To-Gross Rate	80%	80%	80%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	5.7	3.4	9.0
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.5	0.5	0.5
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	0.4	0.4	0.4
Installed Winter peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	12.7	13.7	26.5
	Attic Insulation	Realization Rate	100%	100%	100%
	Attic Insulation	Net-To-Gross Rate	80%	80%	80%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	10.2	11.0	21.2
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.9	1.7	1.2
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	0.7	1.4	1.0
	Bathroom Aerator	Total Participants	15	9	24
Installed kWh/year	Bathroom Aerator	Total Gross Energy Savings (kWh/yr)	580	290	870
	Bathroom Aerator	Realization Rate	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	80%	80%	80%
	Bathroom Aerator	Net Adjusted Savings (kWh/yr)	464	232	696
	Bathroom Aerator	Avg. Gross Savings per Participant (kWh/yr)	39	32	36
	Bathroom Aerator	Avg. Net Savings per Participant (kWh/yr)	31	26	29
Installed Summer peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	0.2	0.1	0.2
	Bathroom Aerator	Realization Rate	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	80%	80%	80%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	0.1	0.1	0.2
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
Installed Winter peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	0.2	0.1	0.2
	Bathroom Aerator	Realization Rate	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	80%	80%	80%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	0.1	0.1	0.2
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
	Duct Sealing	Total Participants	6	6	12
Installed kWh/year	Duct Sealing	Total Gross Energy Savings (kWh/yr)	13,343	3,534	16,877
	Duct Sealing	Realization Rate	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	80%	80%	80%
	Duct Sealing	Net Adjusted Savings (kWh/yr)	10,675	2,827	13,502
	Duct Sealing	Avg. Gross Savings per Participant (kWh/yr)	2,224	589	1,406
	Duct Sealing	Avg. Net Savings per Participant (kWh/yr)	1,779	471	1,125
Installed Summer peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	6.0	1.4	7.4
	Duct Sealing	Realization Rate	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	4.8	1.1	5.9
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	1.0	0.2	0.6
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	0.8	0.2	0.5
Installed Winter peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	7.0	1.7	8.7
	Duct Sealing	Realization Rate	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	5.6	1.4	7.0
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	1.2	0.3	0.7
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	0.9	0.2	0.6
	Floor Insulation	Total Participants	10	11	21
Installed kWh/year	Floor Insulation	Total Gross Energy Savings (kWh/yr)	2,701	4,807	7,507
	Floor Insulation	Realization Rate	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	80%	80%	80%



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NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Floor Insulation	Net Adjusted Savings (kWh/yr)	2,160	3,845	6,006
	Floor Insulation	Avg. Gross Savings per Participant (kWh/yr)	270	437	357
	Floor Insulation	Avg. Net Savings per Participant (kWh/yr)	216	350	286
Installed Summer peak kW	Floor Insulation	Total Gross Demand Reduction (kW)	0.8	0.8	1.6
	Floor Insulation	Realization Rate	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	80%	80%	80%
	Floor Insulation	Net Adjusted Demand Reduction (kW)	0.6	0.7	1.3
	Floor Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.08	0.08	0.08
	Floor Insulation	Avg. Net Demand Reduction per Participant (kW)	0.06	0.06	0.06
Installed Winter peak kW	Floor Insulation	Total Gross Demand Reduction (kW)	3.1	4.5	7.7
	Floor Insulation	Realization Rate	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	80%	80%	80%
	Floor Insulation	Net Adjusted Demand Reduction (kW)	2.5	3.6	6.1
	Floor Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.3	0.4	0.4
	Floor Insulation	Avg. Net Demand Reduction per Participant (kW)	0.3	0.3	0.3
Installed kWh/year	Heat Pump Tune Up	Total Participants	0	2	2
	Heat Pump Tune Up	Total Gross Energy Savings (kWh/yr)	0	588	588
	Heat Pump Tune Up	Realization Rate	N/A	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	80%	80%
	Heat Pump Tune Up	Net Adjusted Savings (kWh/yr)	0	471	471
	Heat Pump Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	294	294
	Heat Pump Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	235	235
Installed Summer peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	0.0	0.2	0.2
	Heat Pump Tune Up	Realization Rate	N/A	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	80%	80%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.2
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.1
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	0.10	0.10
Installed Winter peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	-	0.2	0.2
	Heat Pump Tune Up	Realization Rate	-	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	-	80%	80%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	-	0.2	0.2
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	0.1	0.1
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	0.10	0.10
Installed kWh/year	Kitchen Aerator	Total Participants	16	9	25
	Kitchen Aerator	Total Gross Energy Savings (kWh/yr)	420	236	656
	Kitchen Aerator	Realization Rate	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	80%	80%	80%
	Kitchen Aerator	Net Adjusted Savings (kWh/yr)	336	189	525
	Kitchen Aerator	Avg. Gross Savings per Participant (kWh/yr)	26	26	26
	Kitchen Aerator	Avg. Net Savings per Participant (kWh/yr)	21	21	21
Installed Summer peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	0.0	0.0	0.1
	Kitchen Aerator	Realization Rate	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	80%	80%	80%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00
Installed Winter peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	0.0	0.0	0.1
	Kitchen Aerator	Realization Rate	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	80%	80%	80%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00





NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00
	Pipe Insulation	Total Participants	17	12	29
Installed kWh/year	Pipe Insulation	Total Gross Energy Savings (kWh/yr)	2,254	1,320	3,574
	Pipe Insulation	Realization Rate	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	80%	80%	80%
	Pipe Insulation	Net Adjusted Savings (kWh/yr)	1,803	1,056	2,859
	Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	133	110	123
	Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	106	88	99
Installed Summer peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	0.3	0.2	0.4
	Pipe Insulation	Realization Rate	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	80%	80%	80%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.2	0.1	0.3
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
Installed Winter peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	0.3	0.2	0.4
	Pipe Insulation	Realization Rate	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	80%	80%	80%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.2	0.1	0.3
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
Installed kWh/year	Refrigerator Replacement	Total Participants	7	1	8
	Refrigerator Replacement	Total Gross Energy Savings (kWh/yr)	283	41	323
	Refrigerator Replacement	Realization Rate	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Savings (kWh/yr)	226	33	259
	Refrigerator Replacement	Avg. Gross Savings per Participant (kWh/yr)	40	41	40
	Refrigerator Replacement	Avg. Net Savings per Participant (kWh/yr)	32	33	32
Installed Summer peak kW	Refrigerator Replacement	Total Gross Demand Reduction (kW)	0.0	0.0	0.1
	Refrigerator Replacement	Realization Rate	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Refrigerator Replacement	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01
	Refrigerator Replacement	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01
Installed Winter peak kW	Refrigerator Replacement	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Refrigerator Replacement	Realization Rate	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Refrigerator Replacement	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00
	Refrigerator Replacement	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00
Installed kWh/year	Safety Tier I	Total Participants	20	12	32
	Safety Tier I	Total Gross Energy Savings (kWh/yr)	0	0	0
	Safety Tier I	Realization Rate	N/A	N/A	N/A
	Safety Tier I	Net-To-Gross Rate	N/A	N/A	N/A
	Safety Tier I	Net Adjusted Savings (kWh/yr)	0	0	0
	Safety Tier I	Avg. Gross Savings per Participant (kWh/yr)	0	0	0
	Safety Tier I	Avg. Net Savings per Participant (kWh/yr)	0	0	0
Installed Summer peak kW	Safety Tier I	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Safety Tier I	Realization Rate	N/A	N/A	N/A
	Safety Tier I	Net-To-Gross Rate	N/A	N/A	N/A
	Safety Tier I	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Safety Tier I	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0
	Safety Tier I	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0



NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
Installed Winter peak kW	Safety Tier I	Total Gross Demand Reduction (kW)	-	-	0.0
	Safety Tier I	Realization Rate	-	-	N/A
	Safety Tier I	Net-To-Gross Rate	-	-	N/A
	Safety Tier I	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Safety Tier I	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Safety Tier I	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Safety Tier II	Total Participants	2	2	4
Installed kWh/year	Safety Tier II	Total Gross Energy Savings (kWh/yr)	0	0	0
	Safety Tier II	Realization Rate	N/A	N/A	N/A
	Safety Tier II	Net-To-Gross Rate	N/A	N/A	N/A
	Safety Tier II	Net Adjusted Savings (kWh/yr)	0	0	0
	Safety Tier II	Avg. Gross Savings per Participant (kWh/yr)	0	0	0
	Safety Tier II	Avg. Net Savings per Participant (kWh/yr)	0	0	0
Installed Summer peak kW	Safety Tier II	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Safety Tier II	Realization Rate	N/A	N/A	N/A
	Safety Tier II	Net-To-Gross Rate	N/A	N/A	N/A
	Safety Tier II	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Safety Tier II	Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0
	Safety Tier II	Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0
Installed Winter peak kW	Safety Tier II	Total Gross Demand Reduction (kW)	-	-	0.0
	Safety Tier II	Realization Rate	-	-	N/A
	Safety Tier II	Net-To-Gross Rate	-	-	N/A
	Safety Tier II	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Safety Tier II	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Safety Tier II	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Showerhead	Total Participants	17	8	25
Installed kWh/year	Showerhead	Total Gross Energy Savings (kWh/yr)	3,179	1,496	4,675
	Showerhead	Realization Rate	100%	100%	100%
	Showerhead	Net-To-Gross Rate	80%	80%	80%
	Showerhead	Net Adjusted Savings (kWh/yr)	2,543	1,197	3,740
	Showerhead	Avg. Gross Savings per Participant (kWh/yr)	187	187	187
	Showerhead	Avg. Net Savings per Participant (kWh/yr)	150	150	150
Installed Summer peak kW	Showerhead	Total Gross Demand Reduction (kW)	0.3	0.2	0.5
	Showerhead	Realization Rate	100%	100%	100%
	Showerhead	Net-To-Gross Rate	80%	80%	80%
	Showerhead	Net Adjusted Demand Reduction (kW)	0.2	0.2	0.4
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	0.01	0.02	0.02
Installed Winter peak kW	Showerhead	Total Gross Demand Reduction (kW)	0.3	0.2	0.5
	Showerhead	Realization Rate	100%	100%	100%
	Showerhead	Net-To-Gross Rate	80%	80%	80%
	Showerhead	Net Adjusted Demand Reduction (kW)	0.2	0.2	0.4
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	0.01	0.02	0.02
	Water Heater Tank Wrap	Total Participants	13	8	21
Installed kWh/year	Water Heater Tank Wrap	Total Gross Energy Savings (kWh/yr)	3,457	1,869	5,326
	Water Heater Tank Wrap	Realization Rate	100%	100%	100%
	Water Heater Tank Wrap	Net-To-Gross Rate	80%	80%	80%
	Water Heater Tank Wrap	Net Adjusted Savings (kWh/yr)	2,766	1,495	4,261
	Water Heater Tank Wrap	Avg. Gross Savings per Participant (kWh/yr)	266	234	254
	Water Heater Tank Wrap	Avg. Net Savings per Participant (kWh/yr)	213	187	203



NC - Residential Income and Age Qualifying Energy Efficiency Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
Installed Summer peak kW	Water Heater Tank Wrap	Total Gross Demand Reduction (kW)	0.4	0.2	0.6
	Water Heater Tank Wrap	Realization Rate	100%	100%	100%
	Water Heater Tank Wrap	Net-To-Gross Rate	80%	80%	80%
	Water Heater Tank Wrap	Net Adjusted Demand Reduction (kW)	0.3	0.2	0.5
	Water Heater Tank Wrap	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.03
	Water Heater Tank Wrap	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02
Installed Winter peak kW	Water Heater Tank Wrap	Total Gross Demand Reduction (kW)	0.4	0.2	0.6
	Water Heater Tank Wrap	Realization Rate	100%	100%	100%
	Water Heater Tank Wrap	Net-To-Gross Rate	80%	80%	80%
	Water Heater Tank Wrap	Net Adjusted Demand Reduction (kW)	0.3	0.2	0.5
	Water Heater Tank Wrap	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.03
	Water Heater Tank Wrap	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02

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**K.10 North Carolina Residential Virtual Audit Program (Phase IX) 2022-2023**

**K.10.1 2022-2023 North Carolina Residential Virtual Audit Program (Phase IX) Annual Indicator Tables**

NC - Residential Virtual Energy Audit Program			2022	2023	2024	2022-2023
Category	Measure	Indicator	Total	Total	Total	Total
O&M (\$)		Direct Rebate				
O&M (\$)		Direct Implementation				
O&M (\$)		Direct EM&V				
O&M (\$)		Indirect Other (Administrative)				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$15,492	\$85,520	\$0	\$101,012
Costs (\$)		Planned	\$107,801	\$205,063	\$0	\$312,864
Costs (\$)		Variance	-\$92,308	-\$119,543	\$0	-\$211,851
		Annual % of Planned	14%	42%	N/A	32%
Participants <sup>1</sup>		Total (Gross)	39	377	525	416
		Planned	3,600	3,000	2,700	6,600
		Variance	-3,561	-2,623	-2,175	-6,184
		Annual % of Planned (Gross)	1%	13%	19%	6%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	40,749	355,820	489,066	396,569
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	40,749	355,820	489,066	396,569
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%
		Net-To-Gross Adjustment (kWh/yr)	-16,300	-142,328	-195,626	-158,628
		Net Adjusted Savings (kWh/yr)	24,450	213,492	293,439	237,941
		Planned Net Savings (kWh/yr)	1,071,360	892,800	803,520	1,964,160
		Annual % Toward Planned Net Savings	2.28%	23.9%	36.5%	12.1%
		Avg. Gross Savings per Participant (kWh/yr)	1,045	944	932	953
		Avg. Net Savings per Participant (kWh/yr)	627	566	559	572
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	3.5	33.7	46.4	37.2
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	3.5	33.7	46.4	37.2
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%
		Net-To-Gross Adjustment (kW)	-1.4	-13.5	-18.5	-14.9
		Net Adjusted Demand Reduction (kW)	2.1	20.2	27.8	22.3
		Planned Net Savings (kW)	367.2	306.0	275.4	673.2
		Annual % Toward Planned Net Reduction	0.57%	6.61%	10.1%	3.31%
		Avg. Gross Demand Reduction per Participant (kW)	0.09	0.09	0.09	0.09
		Avg. Net Demand Reduction per Participant (kW)	0.05	0.05	0.05	0.05
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	5.6	52.2	73.6	57.8
		Realization Rate Weighted by Measure	100%	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	5.6	52.2	73.6	57.8
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%
		Net-To-Gross Adjustment (kW)	-2.2	-20.9	-29.5	-23.1
		Net Adjusted Demand Reduction (kW)	3.4	31.3	44.2	34.7
		Planned Net Savings (kW)	237.6	198.0	178.2	435.6
		Annual % Toward Planned Net Reduction	1.41%	15.8%	24.8%	7.96%
		Avg. Gross Demand Reduction per Participant (kW)	0.1	0.1	0.1	0.1
		Avg. Net Demand Reduction per Participant (kW)	0.09	0.08	0.08	0.08
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$17	\$15	\$7	\$15
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.01	\$0.02
		\$Admin. per kW (Gross)	\$185	\$173	\$77	\$173
		\$EM&V per \$Total	11.0%	8.4%	8.4%	8.4%
		\$Rebate per Participant (Gross)	\$127	\$129	\$57	\$129

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K.10.2 2023 North Carolina Residential Virtual Audit Program (Phase IX) Monthly Indicator Tables

NC - Residential Virtual Energy Audit Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$242	\$212	\$240	\$193	\$279	\$283	\$686	\$541	\$403	\$207	\$1,623	\$871	\$5,778	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$3,581	\$3,135	\$3,557	\$2,850	\$4,125	\$4,183	\$10,159	\$8,006	\$5,958	\$3,060	\$24,023	\$12,884	\$85,520	
Costs (\$)		Planned	\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	\$13,671	\$20,506	\$20,506	\$20,506	\$20,506	\$20,506	\$20,506	\$205,063	
Costs (\$)		Variance	-\$10,090	-\$10,536	-\$10,114	-\$10,821	-\$9,546	-\$9,488	-\$10,347	-\$12,500	-\$14,548	-\$17,446	\$3,516	-\$7,822	-\$119,543	
		Annual % of Planned	1.7%	3.3%	5.0%	6.4%	8.4%	10.5%	15.4%	19.3%	22.2%	23.7%	35.4%	41.7%	42%	
Participants <sup>1</sup>		Total (Gross)	6	10	9	2	3	18	56	39	29	6	125	74	377	
		Planned	250	250	250	250	250	250	250	250	250	250	250	250	3,000	
		Variance	-244	-240	-241	-248	-247	-232	-194	-211	-221	-244	-125	-176	-2,623	
		Annual % of Planned (Gross)	0%	1%	1%	1%	1%	2%	3%	5%	6%	6%	10%	13%	13%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	7,360	9,098	7,431	1,571	2,682	17,595	50,041	35,228	29,289	3,682	122,597	69,246	355,820	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Realization Rate Adjusted Savings (kWh/yr)	7,360	9,098	7,431	1,571	2,682	17,595	50,041	35,228	29,289	3,682	122,597	69,246	355,820	
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	
		Net-To-Gross Adjustment (kWh/yr)	-2,944	-3,639	-2,972	-629	-1,073	-7,038	-20,016	-14,091	-11,715	-1,473	-49,039	-27,699	-142,328	
		Net Adjusted Savings (kWh/yr)	4,416	5,459	4,458	943	1,609	10,557	30,025	21,137	17,573	2,209	73,558	41,548	213,492	
		Planned Net Savings (kWh/yr)	74,400	74,400	74,400	74,400	74,400	74,400	74,400	74,400	74,400	74,400	74,400	74,400	892,800	
		Annual % Toward Planned Net Savings	0.49%	1.11%	1.61%	1.71%	1.89%	3.07%	6.44%	8.80%	10.8%	11.0%	19.3%	23.9%	23.9%	
		Avg. Gross Savings per Participant (kWh/yr)	1,227	910	826	786	894	977	894	903	1,010	614	981	936	944	
		Avg. Net Savings per Participant (kWh/yr)	736	546	495	471	536	586	536	542	606	368	588	561	566	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.7	1.0	0.7	0.2	0.3	1.6	4.8	3.5	2.5	0.4	11.4	6.6	33.7	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.7	1.0	0.7	0.2	0.3	1.6	4.8	3.5	2.5	0.4	11.4	6.6	33.7	
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	
		Net-To-Gross Adjustment (kW)	-0.3	-0.4	-0.3	-0.1	-0.1	-0.6	-1.9	-1.4	-1.0	-0.2	-4.6	-2.7	-13.5	
		Net Adjusted Demand Reduction (kW)	0.4	0.6	0.4	0.1	0.2	0.9	2.9	2.1	1.5	0.3	6.8	4.0	20.2	
		Planned Net Savings (kW)	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	306.0	
		Annual % Toward Planned Net Reduction	0.14%	0.33%	0.46%	0.50%	0.55%	0.85%	1.80%	2.49%	2.98%	3.07%	5.30%	6.61%	6.61%	
		Avg. Gross Demand Reduction per Participant (kW)	0.12	0.10	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.07	0.09	0.09	0.09	
		Avg. Net Demand Reduction per Participant (kW)	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.05	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	1.2	1.7	1.1	0.2	0.5	2.6	7.2	4.9	3.7	0.6	18.1	10.3	52.2	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		Realization Rate Adjusted Gross Demand Reduction (kW)	1.2	1.7	1.1	0.2	0.5	2.6	7.2	4.9	3.7	0.6	18.1	10.3	52.2	
		Net-To-Gross Rate Weighted by Measure	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	
		Net-To-Gross Adjustment (kW)	-0.5	-0.7	-0.4	-0.1	-0.2	-1.1	-2.9	-2.0	-1.5	-0.2	-7.3	-4.1	-20.9	
		Net Adjusted Demand Reduction (kW)	0.7	1.0	0.6	0.1	0.3	1.6	4.3	3.0	2.2	0.3	10.9	6.2	31.3	
		Planned Net Savings (kW)	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	198.0	
		Annual % Toward Planned Net Reduction	0.36%	0.87%	1.20%	1.27%	1.42%	2.22%	4.40%	5.89%	7.02%	7.19%	12.7%	15.8%	15.8%	
		Avg. Gross Demand Reduction per Participant (kW)	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.10	0.1	0.1	0.1	
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.07	0.07	0.1	0.09	0.08	0.08	0.08	0.06	0.09	0.08	0.08	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$20	\$20	\$21	\$23	\$26	\$24	\$19	\$18	\$18	\$18	\$16	\$15	\$15	
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.02	\$0.03	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	
		\$Admin. per kW (Gross)	\$212	\$212	\$229	\$254	\$288	\$267	\$219	\$205	\$199	\$205	\$182	\$173	\$173	
		\$EM&V per \$Total	12.1%	10.4%	11.8%	13.9%	15.2%	15.7%	14.2%	13.1%	12.4%	12.4%	9.3%	8.4%	8.4%	
		\$Rebate per Participant (Gross)	\$131	\$133	\$131	\$130	\$130	\$129	\$127	\$127	\$127	\$126	\$128	\$129	\$129	

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K.10.3 2022-2023 North Carolina Residential Virtual Audit Program (Phase IX) Measure Indicator Tables

NC - Residential Virtual Energy Audit Program			2022	2023	2024	2022-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Caulking per Tube	Total Participants	7	86	137	93
Installed kWh/year	Caulking per Tube	Total Gross Energy Savings (kWh/yr)	63	581	1,023	645
	Caulking per Tube	Realization Rate	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Savings (kWh/yr)	38	349	614	387
	Caulking per Tube	Avg. Gross Savings per Participant (kWh/yr)	9	7	7	7
	Caulking per Tube	Avg. Net Savings per Participant (kWh/yr)	5	4	4	4
Installed Summer peak kW	Caulking per Tube	Total Gross Demand Reduction (kW)	0.0	0.1	0.3	0.2
	Caulking per Tube	Realization Rate	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Demand Reduction (kW)	0.0	0.1	0.2	0.1
	Caulking per Tube	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Caulking per Tube	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
Installed Winter peak kW	Caulking per Tube	Total Gross Demand Reduction (kW)	0.1	0.7	1.3	0.8
	Caulking per Tube	Realization Rate	100%	100%	100%	100%
	Caulking per Tube	Net-To-Gross Rate	60%	60%	60%	60%
	Caulking per Tube	Net Adjusted Demand Reduction (kW)	0.1	0.4	0.8	0.5
	Caulking per Tube	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Caulking per Tube	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Door Sweep	Total Participants	7	86	137	93
Installed kWh/year	Door Sweep	Total Gross Energy Savings (kWh/yr)	472	4,335	7,624	4,807
	Door Sweep	Realization Rate	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	60%	60%	60%	60%
	Door Sweep	Net Adjusted Savings (kWh/yr)	283	2,601	4,574	2,884
	Door Sweep	Avg. Gross Savings per Participant (kWh/yr)	67	50	56	52
	Door Sweep	Avg. Net Savings per Participant (kWh/yr)	40	30	33	31
Installed Summer peak kW	Door Sweep	Total Gross Demand Reduction (kW)	0.1	1.1	1.9	1.2
	Door Sweep	Realization Rate	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	60%	60%	60%	60%
	Door Sweep	Net Adjusted Demand Reduction (kW)	0.1	0.6	1.1	0.7
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.01	0.01	0.01
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
Installed Winter peak kW	Door Sweep	Total Gross Demand Reduction (kW)	0.7	5.3	9.5	6.0
	Door Sweep	Realization Rate	100%	100%	100%	100%
	Door Sweep	Net-To-Gross Rate	60%	60%	60%	60%
	Door Sweep	Net Adjusted Demand Reduction (kW)	0.4	3.2	5.7	3.6
	Door Sweep	Avg. Gross Demand Reduction per Participant (kW)	0.10	0.06	0.07	0.06
	Door Sweep	Avg. Net Demand Reduction per Participant (kW)	0.06	0.04	0.04	0.04
	Door Weatherstripping	Total Participants	7	86	137	93
Installed kWh/year	Door Weatherstripping	Total Gross Energy Savings (kWh/yr)	32	291	512	322
	Door Weatherstripping	Realization Rate	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Savings (kWh/yr)	19	174	307	193
	Door Weatherstripping	Avg. Gross Savings per Participant (kWh/yr)	5	3	4	3
	Door Weatherstripping	Avg. Net Savings per Participant (kWh/yr)	3	2	2	2
Installed Summer peak kW	Door Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.1	0.1	0.1
	Door Weatherstripping	Realization Rate	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1	0.0
	Door Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Door Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
Installed Winter peak kW	Door Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.4	0.6	0.4



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NC - Residential Virtual Energy Audit Program			2022	2023	2024	2022-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Door Weatherstripping	Realization Rate	100%	100%	100%	100%
	Door Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%
	Door Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.4	0.2
	Door Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00
	Door Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Hot Water Pipe Insulation	Total Participants	37	337	469	374
Installed kWh/year	Hot Water Pipe Insulation	Total Gross Energy Savings (kWh/yr)	6,805	64,272	86,840	71,077
	Hot Water Pipe Insulation	Realization Rate	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Savings (kWh/yr)	4,083	38,563	52,104	42,646
	Hot Water Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	184	191	185	190
	Hot Water Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	110	114	111	114
Installed Summer peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	0.8	7.3	9.9	8.1
	Hot Water Pipe Insulation	Realization Rate	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.5	4.4	5.9	4.9
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
Installed Winter peak kW	Hot Water Pipe Insulation	Total Gross Demand Reduction (kW)	0.8	7.3	9.9	8.1
	Hot Water Pipe Insulation	Realization Rate	100%	100%	100%	100%
	Hot Water Pipe Insulation	Net-To-Gross Rate	60%	60%	60%	60%
	Hot Water Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.5	4.4	5.9	4.9
	Hot Water Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02
	Hot Water Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Lighting	Total Participants	37	345	473	382
Installed kWh/year	Lighting	Total Gross Energy Savings (kWh/yr)	12,960	85,873	115,026	98,832
	Lighting	Realization Rate	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	60%	60%	60%	60%
	Lighting	Net Adjusted Savings (kWh/yr)	7,776	51,524	69,016	59,299
	Lighting	Avg. Gross Savings per Participant (kWh/yr)	350	249	243	259
	Lighting	Avg. Net Savings per Participant (kWh/yr)	210	149	146	155
Installed Summer peak kW	Lighting	Total Gross Demand Reduction (kW)	1.2	11.3	15.1	12.5
	Lighting	Realization Rate	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	60%	60%	60%	60%
	Lighting	Net Adjusted Demand Reduction (kW)	0.7	6.8	9.1	7.5
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03
	Lighting	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02
Installed Winter peak kW	Lighting	Total Gross Demand Reduction (kW)	2.5	24.1	32.3	26.7
	Lighting	Realization Rate	100%	100%	100%	100%
	Lighting	Net-To-Gross Rate	60%	60%	60%	60%
	Lighting	Net Adjusted Demand Reduction (kW)	1.5	14.5	19.4	16.0
	Lighting	Avg. Gross Demand Reduction per Participant (kW)	0.07	0.07	0.07	0.07
	Lighting	Avg. Net Demand Reduction per Participant (kW)	0.04	0.04	0.04	0.04
	Outlet/Switch Gaskets	Total Participants	7	86	137	93
Installed kWh/year	Outlet/Switch Gaskets	Total Gross Energy Savings (kWh/yr)	24	223	391	247
	Outlet/Switch Gaskets	Realization Rate	100%	100%	100%	100%
	Outlet/Switch Gaskets	Net-To-Gross Rate	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Savings (kWh/yr)	15	134	235	148
	Outlet/Switch Gaskets	Avg. Gross Savings per Participant (kWh/yr)	3	3	3	3
	Outlet/Switch Gaskets	Avg. Net Savings per Participant (kWh/yr)	2	2	2	2
Installed Summer peak kW	Outlet/Switch Gaskets	Total Gross Demand Reduction (kW)	0.0	0.1	0.1	0.1
	Outlet/Switch Gaskets	Realization Rate	100%	100%	100%	100%



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NC - Residential Virtual Energy Audit Program			2022	2023	2024	2022-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Outlet/Switch Gaskets	Net-To-Gross Rate	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1	0.0
	Outlet/Switch Gaskets	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Outlet/Switch Gaskets	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
Installed Winter peak kW	Outlet/Switch Gaskets	Total Gross Demand Reduction (kW)	0.0	0.3	0.5	0.3
	Outlet/Switch Gaskets	Realization Rate	100%	100%	100%	100%
	Outlet/Switch Gaskets	Net-To-Gross Rate	60%	60%	60%	60%
	Outlet/Switch Gaskets	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.3	0.2
	Outlet/Switch Gaskets	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00
	Outlet/Switch Gaskets	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Smart Strips	Total Participants	36	365	502	401
Installed kWh/year	Smart Strips	Total Gross Energy Savings (kWh/yr)	4,041	40,971	56,350	45,012
	Smart Strips	Realization Rate	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	60%	60%	60%	60%
	Smart Strips	Net Adjusted Savings (kWh/yr)	2,425	24,583	33,810	27,007
	Smart Strips	Avg. Gross Savings per Participant (kWh/yr)	112	112	112	112
	Smart Strips	Avg. Net Savings per Participant (kWh/yr)	67	67	67	67
Installed Summer peak kW	Smart Strips	Total Gross Demand Reduction (kW)	0.4	3.6	5.0	4.0
	Smart Strips	Realization Rate	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	60%	60%	60%	60%
	Smart Strips	Net Adjusted Demand Reduction (kW)	0.2	2.2	3.0	2.4
	Smart Strips	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Smart Strips	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
Installed Winter peak kW	Smart Strips	Total Gross Demand Reduction (kW)	0.4	3.6	5.0	4.0
	Smart Strips	Realization Rate	100%	100%	100%	100%
	Smart Strips	Net-To-Gross Rate	60%	60%	60%	60%
	Smart Strips	Net Adjusted Demand Reduction (kW)	0.2	2.2	3.0	2.4
	Smart Strips	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Smart Strips	Avg. Net Demand Reduction per Participant (kW)	0.01	0.01	0.01	0.01
	Water Distribution	Total Participants	37	337	469	374
Installed kWh/year	Water Distribution	Total Gross Energy Savings (kWh/yr)	16,320	158,984	220,789	175,305
	Water Distribution	Realization Rate	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	60%	60%	60%	60%
	Water Distribution	Net Adjusted Savings (kWh/yr)	9,792	95,391	132,474	105,183
	Water Distribution	Avg. Gross Savings per Participant (kWh/yr)	441	472	471	469
	Water Distribution	Avg. Net Savings per Participant (kWh/yr)	265	283	282	281
Installed Summer peak kW	Water Distribution	Total Gross Demand Reduction (kW)	1.0	10.1	13.9	11.1
	Water Distribution	Realization Rate	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	60%	60%	60%	60%
	Water Distribution	Net Adjusted Demand Reduction (kW)	0.6	6.0	8.3	6.7
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02
Installed Winter peak kW	Water Distribution	Total Gross Demand Reduction (kW)	1.0	10.1	13.9	11.1
	Water Distribution	Realization Rate	100%	100%	100%	100%
	Water Distribution	Net-To-Gross Rate	60%	60%	60%	60%
	Water Distribution	Net Adjusted Demand Reduction (kW)	0.6	6.0	8.3	6.7
	Water Distribution	Avg. Gross Demand Reduction per Participant (kW)	0.03	0.03	0.03	0.03
	Water Distribution	Avg. Net Demand Reduction per Participant (kW)	0.02	0.02	0.02	0.02
	Window Weatherstripping	Total Participants	7	86	137	93
Installed kWh/year	Window Weatherstripping	Total Gross Energy Savings (kWh/yr)	32	291	512	322
	Window Weatherstripping	Realization Rate	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%





NC - Residential Virtual Energy Audit Program			2022	2023	2024	2022-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Window Weatherstripping	Net Adjusted Savings (kWh/yr)	19	174	307	193
	Window Weatherstripping	Avg. Gross Savings per Participant (kWh/yr)	5	3	4	3
	Window Weatherstripping	Avg. Net Savings per Participant (kWh/yr)	3	2	2	2
Installed Summer peak kW	Window Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.1	0.1	0.1
	Window Weatherstripping	Realization Rate	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%
	Window Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.1	0.0
	Window Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
	Window Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00
Installed Winter peak kW	Window Weatherstripping	Total Gross Demand Reduction (kW)	0.0	0.4	0.6	0.4
	Window Weatherstripping	Realization Rate	100%	100%	100%	100%
	Window Weatherstripping	Net-To-Gross Rate	60%	60%	60%	60%
	Window Weatherstripping	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.4	0.2
	Window Weatherstripping	Avg. Gross Demand Reduction per Participant (kW)	0.01	0.00	0.00	0.00
	Window Weatherstripping	Avg. Net Demand Reduction per Participant (kW)	0.00	0.00	0.00	0.00

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**K.11 North Carolina Non-Residential Prescriptive Program (Phase IX) 2017–2023**

**K.11.1 2017–2023 North Carolina Non-Residential Prescriptive Program (Phase IX) Annual Indicator Tables**

NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
O&M (\$)		Direct Rebate									
O&M (\$)		Direct Implementation									
O&M (\$)		Direct EM&V									
O&M (\$)		Indirect Other (Administrative)									
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$180,139	\$189,380	\$372,698	\$468,837	\$8,552	\$0	\$1,219,606	\$1,219,606
Costs (\$)		Planned	\$0	\$400,909	\$406,528	\$398,978	\$384,330	\$3,149	\$0	\$1,593,896	\$1,593,896
Costs (\$)		Variance	\$0	-\$220,770	-\$217,148	-\$26,281	\$84,507	\$5,404	\$0	-\$374,289	-\$374,289
		Annual % of Planned	N/A	45%	47%	93%	122%	272%	N/A	77%	77%
Participants <sup>1</sup>		Total (Gross)	0	21	36	19	44	0	0	120	120
		Planned	0	29	29	29	27	0	0	114	114
		Variance	0	-8	7	-10	17	0	0	6	6
		Annual % of Planned (Gross)	N/A	72%	124%	66%	163%	N/A	N/A	105%	105%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	221,779	227,789	1,671,465	1,073,802	0	0	3,194,833	3,194,833
		Realization Rate Weighted by Measure	N/A	100%	100%	45%	63%	N/A	N/A	59%	59%
		Realization Rate Adjustment (kWh/yr)	0	0	0	-922,714	-392,310	0	0	-1,315,024	-1,315,024
		Realization Rate Adjusted Savings (kWh/yr)	0	221,779	227,789	748,751	681,492	0	0	1,879,809	1,879,809
		Net-To-Gross Rate Weighted by Measure	N/A	85%	85%	90%	86%	N/A	N/A	88%	88%
		Net-To-Gross Adjustment (kWh/yr)	0	-33,267	-34,168	-81,918	-121,248	0	0	-270,601	-270,601
		Net Adjusted Savings (kWh/yr)	0	188,512	193,620	666,832	560,244	0	0	1,609,208	1,609,208
		Planned Net Savings (kWh/yr)	0	1,822,814	113,568	316,636	2,960,183	0	0	5,213,221	5,213,221
		Annual % Toward Planned Net Savings	N/A	10.3%	170.5%	210.6%	18.9%	N/A	N/A	30.9%	30.9%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	10,561	6,327	87,972	24,405	N/A	N/A	26,624	26,624
		Avg. Net Savings per Participant (kWh/yr)	N/A	8,977	5,378	35,096	12,733	N/A	N/A	13,410	13,410
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	25.3	30.4	179.6	182.0	0.0	0.0	417.2	417.2
		Realization Rate Weighted by Measure	N/A	100%	100%	74%	84%	N/A	N/A	82%	82%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	-46.0	-28.9	0.0	0.0	-75.0	-75.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	25.3	30.4	133.5	153.1	0.0	0.0	342.3	342.3
		Net-To-Gross Rate Weighted by Measure	N/A	85%	85%	86%	80%	N/A	N/A	83%	83%
		Net-To-Gross Adjustment (kW)	0.0	-3.8	-4.6	-25.9	-36.4	0.0	0.0	-70.7	-70.7
		Net Adjusted Demand Reduction (kW)	0.0	21.5	25.8	112.2	120.8	0.0	0.0	280.3	280.3
		Planned Net Savings (kW)	0.0	292.0	46.5	126.2	442.7	0.0	0.0	907.4	907.4
		Annual % Toward Planned Net Reduction	N/A	7.35%	55.5%	88.9%	27.3%	N/A	N/A	30.9%	30.9%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	1.2	0.8	9.5	4.1	N/A	N/A	3.5	3.5
		Avg. Net Demand Reduction per Participant (kW)	N/A	1.0	0.7	5.9	2.7	N/A	N/A	2.3	2.3
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	173.4	0.0	0.0	173.4	173.4
		Realization Rate Weighted by Measure	-	-	-	-	79%	N/A	N/A	79%	79%
		Realization Rate Adjustment (kW)	-	-	-	-	-35.8	0.0	0.0	-35.8	-35.8
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	137.6	0.0	0.0	137.6	137.6
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	80%	N/A	N/A	80%	80%
		Net-To-Gross Adjustment (kW)	-	-	-	-	-34.7	0.0	0.0	-34.7	-34.7
		Net Adjusted Demand Reduction (kW)	-	-	-	-	108.8	0.0	0.0	108.8	108.8
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	-	-	-	-	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	3.9	N/A	N/A	3.9	3.9
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	2.5	N/A	N/A	2.5	2.5
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$484	\$355	\$522	\$514	\$517	\$517	\$517	\$517
		\$Admin. per kWh/year (Gross)	N/A	\$0.05	\$0.04	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
		\$Admin. per kW (Gross)	N/A	\$403	\$363	\$169	\$149	\$149	\$149	\$149	\$149
		\$EM&V per \$Total	N/A	4.7%	4.2%	3.3%	4.6%	5.2%	5.2%	5.2%	5.2%
		\$Rebate per Participant (Gross)	N/A	\$3,919	\$2,838	\$5,558	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161

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K.11.2 2023 North Carolina Non-Residential Prescriptive Monthly Program (Phase IX) Monthly Indicator Tables

NC - Non-Residential Prescriptive Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total	
O&M (\$)		Direct Rebate														
O&M (\$)		Direct Implementation														
O&M (\$)		Direct EM&V														
O&M (\$)		Indirect Other (Administrative)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Planned	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Annual % of Planned	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Planned	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Variance	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Annual % of Planned (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Planned Net Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Annual % Toward Planned Net Savings	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517	\$517
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
		\$Admin. per kW (Gross)	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149	\$149
		\$EM&V per \$Total	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%	5.2%
		\$Rebate per Participant (Gross)	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161	\$6,161

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K.11.3 2017–2023 North Carolina Non-Residential Prescriptive Program (Phase IX) Measure Indicator Tables

NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
Installed kWh/year	AC Tune-Ups	Total Participants	0	0	3	28	46	0	0	77	77
	AC Tune-Ups	Total Gross Energy Savings (kWh/yr)	0	0	963	65,085	260,499	0	0	326,547	326,547
	AC Tune-Ups	Realization Rate	N/A	N/A	100%	117%	117%	N/A	N/A	117%	117%
	AC Tune-Ups	Net-To-Gross Rate	N/A	N/A	85%	76%	76%	N/A	N/A	76%	76%
	AC Tune-Ups	Net Adjusted Savings (kWh/yr)	0	0	819	57,873	231,636	0	0	290,328	290,328
	AC Tune-Ups	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	321	2,324	5,663	N/A	N/A	4,241	4,241
	AC Tune-Ups	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	273	2,067	5,036	N/A	N/A	3,770	3,770
Installed Summer peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	0.0	0.0	1.6	54.5	93.5	0.0	0.0	149.6	149.6
	AC Tune-Ups	Realization Rate	N/A	N/A	100%	99%	99%	N/A	N/A	99%	99%
	AC Tune-Ups	Net-To-Gross Rate	N/A	N/A	85%	76%	76%	N/A	N/A	76%	76%
	AC Tune-Ups	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.4	41.0	70.3	0.0	0.0	112.8	112.8
	AC Tune-Ups	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.5	1.9	2.0	N/A	N/A	1.9	1.9
	AC Tune-Ups	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.5	1.5	1.5	N/A	N/A	1.5	1.5
	AC Tune-Ups										
Installed Winter peak kW	AC Tune-Ups	Total Gross Demand Reduction (kW)	-	-	-	-	53.1	0.0	0.0	53.1	53.1
	AC Tune-Ups	Realization Rate	-	-	-	-	99%	N/A	N/A	99%	99%
	AC Tune-Ups	Net-To-Gross Rate	-	-	-	-	76%	N/A	N/A	76%	76%
	AC Tune-Ups	Net Adjusted Demand Reduction (kW)	-	-	-	-	39.9	0.0	0.0	39.9	39.9
	AC Tune-Ups	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	1.2	N/A	N/A	1.2	1.2
	AC Tune-Ups	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.9	N/A	N/A	0.9	0.9
	AC Tune-Ups										
Installed kWh/year	Condenser Coil Clean	Total Participants	0	0	0	15	3	0	0	18	18
	Condenser Coil Clean	Total Gross Energy Savings (kWh/yr)	0	0	0	1,576,700	702,396	0	0	2,279,096	2,279,096
	Condenser Coil Clean	Realization Rate	N/A	N/A	N/A	41%	41%	N/A	N/A	41%	41%
	Condenser Coil Clean	Net-To-Gross Rate	N/A	N/A	N/A	91%	91%	N/A	N/A	91%	91%
	Condenser Coil Clean	Net Adjusted Savings (kWh/yr)	0	0	0	588,267	262,064	0	0	850,331	850,331
	Condenser Coil Clean	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	105,113	234,132	N/A	N/A	126,616	126,616
	Condenser Coil Clean	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	39,218	87,355	N/A	N/A	47,241	47,241
Installed Summer peak kW	Condenser Coil Clean	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	114.2	50.9	0.0	0.0	165.1	165.1
	Condenser Coil Clean	Realization Rate	N/A	N/A	N/A	62%	62%	N/A	N/A	62%	62%
	Condenser Coil Clean	Net-To-Gross Rate	N/A	N/A	N/A	91%	91%	N/A	N/A	91%	91%
	Condenser Coil Clean	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	64.4	28.7	0.0	0.0	93.2	93.2
	Condenser Coil Clean	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	7.6	17.0	N/A	N/A	9.2	9.2
	Condenser Coil Clean	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	4.3	9.6	N/A	N/A	5.2	5.2
	Condenser Coil Clean										
Installed Winter peak kW	Condenser Coil Clean	Total Gross Demand Reduction (kW)	-	-	-	-	50.9	0.0	0.0	50.9	50.9
	Condenser Coil Clean	Realization Rate	-	-	-	-	62%	N/A	N/A	62%	62%
	Condenser Coil Clean	Net-To-Gross Rate	-	-	-	-	91%	N/A	N/A	91%	91%
	Condenser Coil Clean	Net Adjusted Demand Reduction (kW)	-	-	-	-	28.7	0.0	0.0	28.7	28.7
	Condenser Coil Clean	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	17.0	N/A	N/A	17.0	17.0
	Condenser Coil Clean	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	9.6	N/A	N/A	9.6	9.6
	Condenser Coil Clean										
Installed kWh/year	Convection Oven	Total Participants	0	0	0	1	0	0	0	1	1
	Convection Oven	Total Gross Energy Savings (kWh/yr)	0	0	0	644	0	0	0	644	644
	Convection Oven	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Convection Oven	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Convection Oven	Net Adjusted Savings (kWh/yr)	0	0	0	547	0	0	0	547	547
	Convection Oven	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	644	N/A	N/A	N/A	644	644
	Convection Oven	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	547	N/A	N/A	N/A	547	547
Installed Summer peak kW	Convection Oven	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
	Convection Oven	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Convection Oven	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Convection Oven	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.10	N/A	N/A	N/A	0.10	0.10
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.08	N/A	N/A	N/A	0.08	0.08
	Convection Oven										
Installed Winter peak kW	Convection Oven	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0

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NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Convection Oven	Realization Rate	-	-	-	-	-	-	-	-	N/A
	Convection Oven	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A
	Convection Oven	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Closer	Total Participants	0	10	13	0	0	0	0	23	23
Installed kWh/year	Door Closer	Total Gross Energy Savings (kWh/yr)	0	1,743	2,201	0	0	0	0	3,944	3,944
	Door Closer	Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%
	Door Closer	Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	85%	85%
	Door Closer	Net Adjusted Savings (kWh/yr)	0	1,482	1,871	0	0	0	0	3,352	3,352
	Door Closer	Avg. Gross Savings per Participant (kWh/yr)	N/A	174	169	N/A	N/A	N/A	N/A	171	171
	Door Closer	Avg. Net Savings per Participant (kWh/yr)	N/A	148	144	N/A	N/A	N/A	N/A	146	146
	Door Closer	Total Gross Demand Reduction (kW)	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.5	0.5
	Door Closer	Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%
	Door Closer	Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	85%	85%
	Door Closer	Net Adjusted Demand Reduction (kW)	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.4	0.4
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	N/A	N/A	N/A	N/A	0.02	0.02
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.02	N/A	N/A	N/A	N/A	0.02	0.02
	Door Closer	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Door Closer	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Door Closer	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Door Closer	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Door Closer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Closer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Gasket	Total Participants	0	21	33	0	0	0	0	54	54
Installed kWh/year	Door Gasket	Total Gross Energy Savings (kWh/yr)	0	219,856	201,477	0	0	0	0	421,333	421,333
	Door Gasket	Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%
	Door Gasket	Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	85%	85%
	Door Gasket	Net Adjusted Savings (kWh/yr)	0	186,877	171,255	0	0	0	0	358,133	358,133
	Door Gasket	Avg. Gross Savings per Participant (kWh/yr)	N/A	10,469	6,105	N/A	N/A	N/A	N/A	7,802	7,802
	Door Gasket	Avg. Net Savings per Participant (kWh/yr)	N/A	8,899	5,190	N/A	N/A	N/A	N/A	6,632	6,632
	Door Gasket	Total Gross Demand Reduction (kW)	0.0	25.0	23.0	0.0	0.0	0.0	0.0	48.0	48.0
	Door Gasket	Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%
	Door Gasket	Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	85%	85%
	Door Gasket	Net Adjusted Demand Reduction (kW)	0.0	21.3	19.5	0.0	0.0	0.0	0.0	40.8	40.8
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.2	0.7	N/A	N/A	N/A	N/A	0.9	0.9
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	N/A	1.0	0.6	N/A	N/A	N/A	N/A	0.8	0.8
	Door Gasket	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Door Gasket	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Door Gasket	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Door Gasket	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Door Gasket	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Door Gasket	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Duct Test and Seal	Total Participants	0	0	3	13	31	0	0	47	47
Installed kWh/year	Duct Test and Seal	Total Gross Energy Savings (kWh/yr)	0	0	1,539	18,021	110,007	0	0	130,468	130,468
	Duct Test and Seal	Realization Rate	N/A	N/A	100%	80%	80%	N/A	N/A	80%	80%
	Duct Test and Seal	Net-To-Gross Rate	N/A	N/A	85%	75%	75%	N/A	N/A	75%	75%
	Duct Test and Seal	Net Adjusted Savings (kWh/yr)	0	0	1,308	10,813	66,544	0	0	78,665	78,665
	Duct Test and Seal	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	513	1,386	3,578	N/A	N/A	2,776	2,776
	Duct Test and Seal	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	436	832	2,147	N/A	N/A	1,674	1,674
	Duct Test and Seal	Total Gross Demand Reduction (kW)	0.0	0.0	2.2	9.0	37.7	0.0	0.0	48.9	48.9
	Duct Test and Seal	Realization Rate	N/A	N/A	100%	77%	77%	N/A	N/A	78%	78%



NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Duct Test and Seal	Net-To-Gross Rate	N/A	N/A	85%	75%	75%	N/A	N/A	75%	75%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.9	5.2	21.8	0.0	0.0	28.8	28.8
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.7	0.7	1.2	N/A	N/A	1.0	1.0
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.6	0.4	0.7	N/A	N/A	0.6	0.6
Installed Winter peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	-	-	-	-	69.4	0.0	0.0	69.4	69.4
	Duct Test and Seal	Realization Rate	-	-	-	-	77%	N/A	N/A	77%	77%
	Duct Test and Seal	Net-To-Gross Rate	-	-	-	-	75%	N/A	N/A	75%	75%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	-	-	-	-	40.1	0.0	0.0	40.1	40.1
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	2.2	N/A	N/A	2.2	2.2
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	1.3	N/A	N/A	1.3	1.3
	ECM at Evaporator Fan	Total Participants	0	0	0	0	0	0	0	0	0
Installed kWh/year	ECM at Evaporator Fan	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	ECM at Evaporator Fan	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	ECM at Evaporator Fan	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	ECM at Evaporator Fan	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ECM at Evaporator Fan	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	ECM at Evaporator Fan	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ECM at Evaporator Fan	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	ECM at Evaporator Fan	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	ECM at Evaporator Fan	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	ECM at Evaporator Fan	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	ECM at Evaporator Fan	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	ECM at Evaporator Fan	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	ECM at Evaporator Fan	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Electric Fryer	Total Participants	0	0	0	1	0	0	0	1	1
Installed kWh/year	Electric Fryer	Total Gross Energy Savings (kWh/yr)	0	0	0	6,011	0	0	0	6,011	6,011
	Electric Fryer	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Electric Fryer	Net Adjusted Savings (kWh/yr)	0	0	0	5,109	0	0	0	5,109	5,109
	Electric Fryer	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	6,011	N/A	N/A	N/A	6,011	6,011
	Electric Fryer	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	5,109	N/A	N/A	N/A	5,109	5,109
Installed Summer peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.9	0.9
	Electric Fryer	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Electric Fryer	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.9	N/A	N/A	N/A	0.9	0.9
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.8	N/A	N/A	N/A	0.8	0.8
Installed Winter peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Electric Fryer	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Electric Fryer	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Electric Fryer	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Evaporator Fan Control (Cooler and Freezer)	Total Participants	0	0	0	0	0	0	0	0	0
Installed kWh/year	Evaporator Fan Control (Cooler and Freezer)	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Evaporator Fan Control (Cooler and Freezer)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Evaporator Fan Control (Cooler and Freezer)	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Evaporator Fan Control (Cooler and Freezer)	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Evaporator Fan Control (Cooler and Freezer)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Evaporator Fan Control (Cooler and Freezer)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Evaporator Fan Control (Cooler and Freezer)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Freezer and Refrigerator	Total Participants	0	0	2	1	0	0	0	3	3
	Freezer and Refrigerator	Total Gross Energy Savings (kWh/yr)	0	0	3,794	494	0	0	0	4,287	4,287
	Freezer and Refrigerator	Realization Rate	N/A	N/A	100%	116%	N/A	N/A	N/A	102%	102%
	Freezer and Refrigerator	Net-To-Gross Rate	N/A	N/A	85%	68%	N/A	N/A	N/A	83%	83%
	Freezer and Refrigerator	Net Adjusted Savings (kWh/yr)	0	0	3,225	389	0	0	0	3,614	3,614
	Freezer and Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,697	494	N/A	N/A	N/A	1,429	1,429
	Freezer and Refrigerator	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,612	389	N/A	N/A	N/A	1,205	1,205
Installed Summer peak kW	Freezer and Refrigerator	Total Gross Demand Reduction (kW)	0.0	0.0	0.5	0.1	0.0	0.0	0.0	0.6	0.6
	Freezer and Refrigerator	Realization Rate	N/A	N/A	100%	116%	N/A	N/A	N/A	102%	102%
	Freezer and Refrigerator	Net-To-Gross Rate	N/A	N/A	85%	68%	N/A	N/A	N/A	83%	83%
	Freezer and Refrigerator	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.5	0.5
	Freezer and Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.06	N/A	N/A	N/A	0.2	0.2
	Freezer and Refrigerator	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.05	N/A	N/A	N/A	0.2	0.2
Installed Winter peak kW	Freezer and Refrigerator	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Freezer and Refrigerator	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Freezer and Refrigerator	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Freezer and Refrigerator	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Freezer and Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Freezer and Refrigerator	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Griddle	Total Participants	0	0	0	1	0	0	0	1	1
	Griddle	Total Gross Energy Savings (kWh/yr)	0	0	0	4,510	0	0	0	4,510	4,510
	Griddle	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Griddle	Net Adjusted Savings (kWh/yr)	0	0	0	3,834	0	0	0	3,834	3,834
	Griddle	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	4,510	N/A	N/A	N/A	4,510	4,510
	Griddle	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	3,834	N/A	N/A	N/A	3,834	3,834
Installed Summer peak kW	Griddle	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7
	Griddle	Realization Rate	N/A	N/A	N/A	100%	N/A	N/A	N/A	100%	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	85%	N/A	N/A	N/A	85%	85%
	Griddle	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.7	N/A	N/A	N/A	0.7	0.7
	Griddle	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.6	N/A	N/A	N/A	0.6	0.6
Installed Winter peak kW	Griddle	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Griddle	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Griddle	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Griddle	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-



NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
	Griddle	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Hot Food Holder	Total Participants	0	0	2	0	0	0	0	2	2
Installed kWh/year	Hot Food Holder	Total Gross Energy Savings (kWh/yr)	0	0	4,790	0	0	0	0	4,790	4,790
	Hot Food Holder	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%	100%
	Hot Food Holder	Net-To-Gross Rate	N/A	N/A	85%	N/A	N/A	N/A	N/A	85%	85%
	Hot Food Holder	Net Adjusted Savings (kWh/yr)	0	0	4,072	0	0	0	0	4,072	4,072
	Hot Food Holder	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	2,395	N/A	N/A	N/A	N/A	2,395	2,395
	Hot Food Holder	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	2,036	N/A	N/A	N/A	N/A	2,036	2,036
Installed Summer peak kW	Hot Food Holder	Total Gross Demand Reduction (kW)	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3	1.3
	Hot Food Holder	Realization Rate	N/A	N/A	100%	N/A	N/A	N/A	N/A	100%	100%
	Hot Food Holder	Net-To-Gross Rate	N/A	N/A	85%	N/A	N/A	N/A	N/A	85%	85%
	Hot Food Holder	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.1	0.0	0.0	0.0	0.0	1.1	1.1
	Hot Food Holder	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.7	N/A	N/A	N/A	N/A	0.7	0.7
	Hot Food Holder	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.6	N/A	N/A	N/A	N/A	0.6	0.6
Installed Winter peak kW	Hot Food Holder	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Hot Food Holder	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Hot Food Holder	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Hot Food Holder	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Hot Food Holder	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Hot Food Holder	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Ice Maker	Total Participants	0	0	0	0	0	0	0	0	0
	Ice Maker	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Ice Maker	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Ice Maker	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Ice Maker	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Ice Maker	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Ice Maker	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ice Maker	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Ice Maker	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Ice Maker	Realization Rate	-	-	-	-	-	-	-	N/A	N/A
	Ice Maker	Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
	Ice Maker	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
	Ice Maker	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
	Ice Maker	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	Low/No Sweat Door Film	Total Participants	0	0	0	0	0	0	0	0	0
	Low/No Sweat Door Film	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Low/No Sweat Door Film	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
	Low/No Sweat Door Film	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Low/No Sweat Door Film	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Low/No Sweat Door Film	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Low/No Sweat Door Film	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Low/No Sweat Door Film	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A





NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023	
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total	
Installed Winter peak kW	Low/No Sweat Door Film	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Low/No Sweat Door Film	Realization Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Low/No Sweat Door Film	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Low/No Sweat Door Film	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Low/No Sweat Door Film	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
	Low/No Sweat Door Film	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
Installed kWh/year	Night Cover	Total Participants	0	0	0	0	0	0	0	0	0	0
	Night Cover	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0
	Night Cover	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0
	Night Cover	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Night Cover	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Night Cover	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Night Cover	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Night Cover	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Night Cover	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Night Cover	Realization Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Night Cover	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Night Cover	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Night Cover	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
	Night Cover	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
Installed kWh/year	Steam Cooker	Total Participants	0	0	0	0	0	0	0	0	0	0
	Steam Cooker	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0
	Steam Cooker	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0	0
	Steam Cooker	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Steam Cooker	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Steam Cooker	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Steam Cooker	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Steam Cooker	Realization Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Steam Cooker	Net-To-Gross Rate	-	-	-	-	-	-	-	-	N/A	N/A
	Steam Cooker	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.0
	Steam Cooker	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
	Steam Cooker	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-	-
Installed kWh/year	Strip Curtain	Total Participants	0	2	13	0	0	0	0	0	15	15
	Strip Curtain	Total Gross Energy Savings (kWh/yr)	0	180	13,024	0	0	0	0	0	13,204	13,204
	Strip Curtain	Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	N/A	100%	100%
	Strip Curtain	Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	N/A	85%	85%
	Strip Curtain	Net Adjusted Savings (kWh/yr)	0	153	11,070	0	0	0	0	0	11,223	11,223
	Strip Curtain	Avg. Gross Savings per Participant (kWh/yr)	N/A	90	1,002	N/A	N/A	N/A	N/A	N/A	880	880
	Strip Curtain	Avg. Net Savings per Participant (kWh/yr)	N/A	77	852	N/A	N/A	N/A	N/A	N/A	748	748



NC - Non-Residential Prescriptive Program			2017	2018	2019	2020	2021	2022	2023	2017-2022	2017-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total	Total	Total	Total
Installed Summer peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5	1.5
		Realization Rate	N/A	100%	100%	N/A	N/A	N/A	N/A	100%	100%
		Net-To-Gross Rate	N/A	85%	85%	N/A	N/A	N/A	N/A	85%	85%
		Net Adjusted Demand Reduction (kW)	0.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3	1.3
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.1	N/A	N/A	N/A	N/A	0.1	0.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.10	N/A	N/A	N/A	N/A	0.09	0.09
Installed Winter peak kW	Strip Curtain	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
		Realization Rate	-	-	-	-	-	-	-	N/A	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
Installed kWh/year	VSDs at Kitchen Exhaust Fan	Total Participants	0	0	0	0	0	0	0	0	0
		Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
		Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	0
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	VSDs at Kitchen Exhaust Fan	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	VSDs at Kitchen Exhaust Fan	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
		Realization Rate	-	-	-	-	-	-	-	N/A	N/A
		Net-To-Gross Rate	-	-	-	-	-	-	-	N/A	N/A
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	0.0	0.0
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	-

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**K.12 North Carolina Non-Residential Prescriptive Enhanced Program (Phase IX) 2022-2023**

**K.12.1 2022-2023 North Carolina Non-Residential Prescriptive Enhanced Program (Phase IX) Annual Indicator Tables**

NC - Non-Residential Prescriptive Enhanced Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
O&M (\$)		Direct Rebate			
O&M (\$)		Direct Implementation			
O&M (\$)		Direct EM&V			
O&M (\$)		Indirect Other (Administrative)			
Capital (\$)		Direct Implementation	\$0	\$0	\$0
Costs (\$)		Total	\$21,735	\$102,393	\$124,127
Costs (\$)		Planned	\$108,401	\$246,881	\$355,283
Costs (\$)		Variance	-\$86,667	-\$144,489	-\$231,155
		Annual % of Planned	20%	41%	35%
Participants <sup>1</sup>		Total (Gross)	0	13	13
		Planned	36	36	72
		Variance	-36	-23	-59
		Annual % of Planned (Gross)	0%	36%	18%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	22,226	22,226
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	22,226	22,226
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-2,223	-2,223
		Net Adjusted Savings (kWh/yr)	0	20,003	20,003
		Planned Net Savings (kWh/yr)	971,968	971,968	1,943,935
		Annual % Toward Planned Net Savings	0%	2.06%	1.03%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	1,710	1,710
		Avg. Net Savings per Participant (kWh/yr)	N/A	1,539	1,539
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	10.2	10.2
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	10.2	10.2
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-1.0	-1.0
		Net Adjusted Demand Reduction (kW)	0.0	9.2	9.2
		Planned Net Savings (kW)	205.7	205.7	411.4
		Annual % Toward Planned Net Reduction	0%	4.48%	2.24%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.8	0.8
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.7	0.7
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	15.0	15.0
		Realization Rate Weighted by Measure	-	100%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	15.0	15.0
		Net-To-Gross Rate Weighted by Measure	-	90%	90%
		Net-To-Gross Adjustment (kW)	-	-1.5	-1.5
		Net Adjusted Demand Reduction (kW)	-	13.5	13.5
		Planned Net Savings (kW)	150.7	150.7	301.4
		Annual % Toward Planned Net Reduction	-	8.98%	4.49%
		Avg. Gross Demand Reduction per Participant (kW)	-	1.2	1.2
		Avg. Net Demand Reduction per Participant (kW)	-	1.0	1.0
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$602	\$602
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0
		\$Admin. per kW (Gross)	N/A	\$765	\$765
		\$EM&V per \$Total	14.2%	10.3%	10.3%
		\$Rebate per Participant (Gross)	N/A	\$2,672	\$2,672

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K.12.2 2023 North Carolina Non-Residential Prescriptive Enhanced Program (Phase IX) Monthly Indicator Tables

NC - Non-Residential Prescriptive Enhanced Program			2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	
Category	Measure	Indicator	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total			
O&M (\$)		Direct Rebate																
O&M (\$)		Direct Implementation																
O&M (\$)		Direct EM&V																
O&M (\$)		Indirect Other (Administrative)	\$244	\$245	\$284	\$261	\$292	\$278	\$283	\$285	\$1,178	\$315	\$2,134	\$1,120	\$6,918			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$3,616	\$3,631	\$4,201	\$3,857	\$4,320	\$4,113	\$4,188	\$4,225	\$17,434	\$4,658	\$31,585	\$16,569	\$102,393			
Costs (\$)		Planned	\$16,459	\$16,459	\$16,459	\$16,459	\$16,459	\$16,459	\$24,688	\$24,688	\$24,688	\$24,688	\$24,688	\$24,688	\$246,881			
Costs (\$)		Variance	-\$12,843	-\$12,828	-\$12,257	-\$12,601	-\$12,138	-\$12,346	-\$20,502	-\$20,463	-\$7,254	-\$20,032	\$6,897	-\$8,119	-\$144,489			
		Annual % of Planned	1.5%	2.9%	4.6%	6.2%	7.9%	9.6%	11.3%	13.0%	20.1%	22.0%	34.8%	41.5%	41%			
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	3	0	10	0	13			
		Planned	3	3	3	3	3	3	3	3	3	3	3	3	36			
		Variance	-3	-3	-3	-3	-3	-3	-3	-3	0	-3	7	-3	-23			
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	0%	0%	0%	8%	8%	36%	36%	36%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	6,456	0	15,770	0	22,226			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	6,456	0	15,770	0	22,226			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90%	N/A	90%	N/A	90%			
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	-646	0	-1,577	0	-2,223			
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	5,810	0	14,193	0	20,003			
		Planned Net Savings (kWh/yr)	80,997	80,997	80,997	80,997	80,997	80,997	80,997	80,997	80,997	80,997	80,997	80,997	971,968			
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	0%	0%	0%	0.60%	0.60%	2.06%	2.06%	2.06%			
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,152	N/A	1,577	N/A	1,710			
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,937	N/A	1,419	N/A	1,539			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	7.2	0.0	10.2			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	7.2	0.0	10.2			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90%	N/A	90%	N/A	90%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	0.0	-0.7	0.0	-1.0			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	6.5	0.0	9.2			
		Planned Net Savings (kW)	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	205.7			
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	1.31%	1.31%	4.48%	4.48%	4.48%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00	N/A	0.72	N/A	0.8			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.9	N/A	0.7	N/A	0.7			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	4.1	0.0	11.0	0.0	15.0			
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	-	100%	N/A	100%	N/A	100%			
		Realization Rate Adjustment (kW)	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	4.1	0.0	11.0	0.0	15.0			
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	-	90%	N/A	90%	N/A	90%			
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	-	-0.4	0.0	-1.1	0.0	-1.5			
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	3.7	0.0	9.9	0.0	13.5			
		Planned Net Savings (kW)	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	150.7			
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	-	2.44%	2.44%	8.98%	8.98%	8.98%			
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	1.4	N/A	1.1	N/A	1.2			
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	1.2	N/A	1.0	N/A	1.0			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1,419	\$1,524	\$516	\$602	\$602			
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1	\$1	\$0	\$0	\$0			
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1,422	\$1,527	\$656	\$765	\$765			
		\$EM&V per \$Total	14.4%	14.7%	15.4%	16.0%	17.2%	18.0%	18.3%	17.9%	14.5%	14.9%	11.2%	10.3%	10.3%			
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$3,750	\$3,750	\$2,672	\$2,672	\$2,672			

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Jun 14 2024



K.12.3 2022-2023 North Carolina Non-Residential Prescriptive Enhanced Program (Phase IX) Measure Indicator Tables

NC - Non-Residential Prescriptive Enhanced Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	AC Tune ups	Total Participants	0	13	13
Installed kWh/year	AC Tune ups	Total Gross Energy Savings (kWh/yr)	0	16,819	16,819
	AC Tune ups	Realization Rate	N/A	100%	100%
	AC Tune ups	Net-To-Gross Rate	N/A	90%	90%
	AC Tune ups	Net Adjusted Savings (kWh/yr)	0	15,137	15,137
	AC Tune ups	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,294	1,294
	AC Tune ups	Avg. Net Savings per Participant (kWh/yr)	N/A	1,164	1,164
Installed Summer peak kW	AC Tune ups	Total Gross Demand Reduction (kW)	0.0	8.4	8.4
	AC Tune ups	Realization Rate	N/A	100%	100%
	AC Tune ups	Net-To-Gross Rate	N/A	90%	90%
	AC Tune ups	Net Adjusted Demand Reduction (kW)	0.0	7.5	7.5
	AC Tune ups	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.6	0.6
	AC Tune ups	Avg. Net Demand Reduction per Participant (kW)	N/A	0.6	0.6
Installed Winter peak kW	AC Tune ups	Total Gross Demand Reduction (kW)	-	9.6	9.6
	AC Tune ups	Realization Rate	-	100%	100%
	AC Tune ups	Net-To-Gross Rate	-	90%	90%
	AC Tune ups	Net Adjusted Demand Reduction (kW)	-	8.6	8.6
	AC Tune ups	Avg. Gross Demand Reduction per Participant (kW)	-	0.7	0.7
	AC Tune ups	Avg. Net Demand Reduction per Participant (kW)	-	0.7	0.7
	Auto Closers	Total Participants	0	0	0
Installed kWh/year	Auto Closers	Total Gross Energy Savings (kWh/yr)	0	0	0
	Auto Closers	Realization Rate	N/A	N/A	N/A
	Auto Closers	Net-To-Gross Rate	N/A	N/A	N/A
	Auto Closers	Net Adjusted Savings (kWh/yr)	0	0	0
	Auto Closers	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Auto Closers	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Auto Closers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Auto Closers	Realization Rate	N/A	N/A	N/A
	Auto Closers	Net-To-Gross Rate	N/A	N/A	N/A
	Auto Closers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Auto Closers	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Auto Closers	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Auto Closers	Total Gross Demand Reduction (kW)	-	-	0.0
	Auto Closers	Realization Rate	-	-	N/A
	Auto Closers	Net-To-Gross Rate	-	-	N/A
	Auto Closers	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Auto Closers	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Auto Closers	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Commercial Dishwasher	Total Participants	0	0	0
Installed kWh/year	Commercial Dishwasher	Total Gross Energy Savings (kWh/yr)	0	0	0
	Commercial Dishwasher	Realization Rate	N/A	N/A	N/A
	Commercial Dishwasher	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Dishwasher	Net Adjusted Savings (kWh/yr)	0	0	0
	Commercial Dishwasher	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Commercial Dishwasher	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Commercial Dishwasher	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Dishwasher	Realization Rate	N/A	N/A	N/A
	Commercial Dishwasher	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Dishwasher	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Dishwasher	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Commercial Dishwasher	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Commercial Dishwasher	Total Gross Demand Reduction (kW)	-	-	0.0

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NC - Non-Residential Prescriptive Enhanced Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Commercial Dishwasher	Realization Rate	-	-	N/A
	Commercial Dishwasher	Net-To-Gross Rate	-	-	N/A
	Commercial Dishwasher	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Commercial Dishwasher	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Commercial Dishwasher	Avg. Net Demand Reduction per Participant (kW)	-	-	-
	Commercial Freezer and Refrigerator Solid door	Total Participants	0	0	0
Installed kWh/year	Commercial Freezer and Refrigerator Solid door	Total Gross Energy Savings (kWh/yr)	0	0	0
	Commercial Freezer and Refrigerator Solid door	Realization Rate	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net Adjusted Savings (kWh/yr)	0	0	0
	Commercial Freezer and Refrigerator Solid door	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Commercial Freezer and Refrigerator Solid door	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Freezer and Refrigerator Solid door	Realization Rate	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Freezer and Refrigerator Solid door	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Commercial Freezer and Refrigerator Solid door	Total Gross Demand Reduction (kW)	-	-	0.0
	Commercial Freezer and Refrigerator Solid door	Realization Rate	-	-	N/A
	Commercial Freezer and Refrigerator Solid door	Net-To-Gross Rate	-	-	N/A
	Commercial Freezer and Refrigerator Solid door	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Commercial Freezer and Refrigerator Solid door	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Commercial Freezer and Refrigerator Solid door	Avg. Net Demand Reduction per Participant (kW)	-	-	-
Installed kWh/year	Commercial Hot Food Holding Cabinet	Total Participants	0	0	0
	Commercial Hot Food Holding Cabinet	Total Gross Energy Savings (kWh/yr)	0	0	0
	Commercial Hot Food Holding Cabinet	Realization Rate	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net Adjusted Savings (kWh/yr)	0	0	0
	Commercial Hot Food Holding Cabinet	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Commercial Hot Food Holding Cabinet	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Hot Food Holding Cabinet	Realization Rate	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net-To-Gross Rate	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Commercial Hot Food Holding Cabinet	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Installed Winter peak kW	Commercial Hot Food Holding Cabinet	Total Gross Demand Reduction (kW)	-	-	0.0
	Commercial Hot Food Holding Cabinet	Realization Rate	-	-	N/A
	Commercial Hot Food Holding Cabinet	Net-To-Gross Rate	-	-	N/A
	Commercial Hot Food Holding Cabinet	Net Adjusted Demand Reduction (kW)	-	-	0.0
	Commercial Hot Food Holding Cabinet	Avg. Gross Demand Reduction per Participant (kW)	-	-	-
	Commercial Hot Food Holding Cabinet	Avg. Net Demand Reduction per Participant (kW)	-	-	-
Installed kWh/year	Door Gasket for Freezers and Coolers	Total Participants	0	0	0
	Door Gasket for Freezers and Coolers	Total Gross Energy Savings (kWh/yr)	0	0	0
	Door Gasket for Freezers and Coolers	Realization Rate	N/A	N/A	N/A
	Door Gasket for Freezers and Coolers	Net-To-Gross Rate	N/A	N/A	N/A
	Door Gasket for Freezers and Coolers	Net Adjusted Savings (kWh/yr)	0	0	0
	Door Gasket for Freezers and Coolers	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
	Door Gasket for Freezers and Coolers	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer peak kW	Door Gasket for Freezers and Coolers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Door Gasket for Freezers and Coolers	Realization Rate	N/A	N/A	N/A