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**J.14 Virginia Residential Water Savings Program (Phase IX) 2021-2023**

**J.14.1 2021-2023 Virginia Residential Water Savings Program (Phase IX) Annual Indicator Tables**

VA - Residential Water Savings 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	\$10,197	\$256,790	\$347,383	\$614,369
Costs (\$)		Planned	\$0	\$794,394	\$1,088,146	\$1,882,541
Costs (\$)		Variance	\$10,197	-\$537,605	-\$740,763	-\$1,268,171
		Annual % of Planned	N/A	32%	32%	33%
Participants <sup>1</sup>		Total (Gross)	0	62	368	430
		Planned	0	940	1,880	2,820
		Variance	0	-878	-1,512	-2,390
		Annual % of Planned (Gross)	N/A	7%	20%	15%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	97,694	513,620	611,314
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	97,694	513,620	611,314
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-9,769	-51,362	-61,131
		Net Adjusted Savings (kWh/yr)	0	87,925	462,258	550,183
		Planned Net Savings (kWh/yr)	0	1,850,202	3,700,404	5,550,606
		Annual % Toward Planned Net Savings	N/A	4.75%	12.5%	9.91%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	1,576	1,396	1,422
		Avg. Net Savings per Participant (kWh/yr)	N/A	1,418	1,256	1,279
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	12.3	88.6	100.8
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	12.3	88.6	100.8
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-1.2	-8.9	-10.1
		Net Adjusted Demand Reduction (kW)	0.0	11.0	79.7	90.7
		Planned Net Savings (kW)	0.0	440.6	881.1	1,321.7
		Annual % Toward Planned Net Reduction	N/A	2.50%	9.05%	6.87%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.2	0.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	15.6	102.6	118.2
		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)	-	15.6	102.6	118.2
		Net-To-Gross Rate Weighted by Measure	-	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-1.6	-10.3	-11.8
		Net Adjusted Demand Reduction (kW)	-	14.0	92.4	106.4
		Planned Net Savings (kW)	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)	-	0.3	0.3	0.3
		Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.3	0.2
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$181	\$81	\$81
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0.06	\$0.06
		\$Admin. per kW (Gross)	N/A	\$914	\$344	\$344
		\$EM&V per \$Total	45.6%	8.4%	9.0%	9.0%
		\$Rebate per Participant (Gross)	N/A	\$307	\$311	\$311

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J.14.2 2023 Virginia Residential Water Savings Program (Phase IX) Monthly Indicator Tables

VA - Residential Water Savings 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)		\$1,516	\$1,633	\$2,088	\$1,868	\$1,604	\$2,745	\$2,043	\$2,265	\$2,426	\$1,949	\$1,808	\$1,527	\$23,472	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)	Total		\$22,434	\$24,173	\$30,901	\$27,649	\$23,746	\$40,625	\$30,236	\$33,520	\$35,912	\$28,838	\$26,751	\$22,596	\$347,383	
Costs (\$)	Planned		\$72,543	\$72,543	\$72,543	\$72,543	\$72,543	\$72,543	\$108,815	\$108,815	\$108,815	\$108,815	\$108,815	\$108,815	\$1,088,146	
Costs (\$)	Variance		-\$50,109	-\$48,370	-\$41,642	-\$44,894	-\$48,797	-\$31,918	-\$78,579	-\$75,294	-\$72,902	-\$79,976	-\$82,063	-\$86,218	-\$740,763	
	Annual % of Planned		2.1%	4.3%	7.1%	9.7%	11.8%	15.6%	18.4%	21.4%	24.7%	27.4%	29.8%	31.9%	32%	
Participants <sup>1</sup>	Total (Gross)		13	17	30	22	37	45	34	44	48	37	30	11	368	
	Planned		164	156	156	156	156	156	156	156	156	156	156	156	1,880	
	Variance		-151	-139	-126	-134	-119	-111	-122	-112	-108	-119	-126	-145	-1,512	
	Annual % of Planned (Gross)		1%	2%	3%	4%	6%	9%	11%	13%	15%	17%	19%	20%	20%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	13,748	22,330	42,860	30,296	59,145	56,557	43,024	60,257	78,930	56,217	35,052	15,204	513,620	
		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)	13,748	22,330	42,860	30,296	59,145	56,557	43,024	60,257	78,930	56,217	35,052	15,204	513,620	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kWh/yr)	-1,375	-2,233	-4,286	-3,030	-5,914	-5,656	-4,302	-6,026	-7,893	-5,622	-3,505	-1,520	-51,362	
		Net Adjusted Savings (kWh/yr)	12,374	20,097	38,574	27,266	53,230	50,901	38,722	54,232	71,037	50,595	31,547	13,683	462,258	
		Planned Net Savings (kWh/yr)	322,801	307,055	307,055	307,055	307,055	307,055	307,055	307,055	307,055	307,055	307,055	307,055	3,700,404	
		Annual % Toward Planned Net Savings	0.33%	0.88%	1.92%	2.66%	4.10%	5.47%	6.52%	7.98%	9.90%	11.3%	12.1%	12.5%	12.5%	
		Avg. Gross Savings per Participant (kWh/yr)	1,058	1,314	1,429	1,377	1,599	1,257	1,265	1,369	1,644	1,519	1,168	1,382	1,396	
		Avg. Net Savings per Participant (kWh/yr)	952	1,182	1,286	1,239	1,439	1,131	1,139	1,233	1,480	1,367	1,052	1,244	1,256	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	1.8	2.5	5.6	5.0	9.7	11.6	11.1	12.2	12.6	9.1	5.2	2.3	88.6	
		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)	1.8	2.5	5.6	5.0	9.7	11.6	11.1	12.2	12.6	9.1	5.2	2.3	88.6	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kW)	-0.2	-0.2	-0.6	-0.5	-1.0	-1.2	-1.1	-1.2	-1.3	-0.9	-0.5	-0.2	-8.9	
		Net Adjusted Demand Reduction (kW)	1.6	2.2	5.0	4.5	8.7	10.5	10.0	11.0	11.3	8.2	4.7	2.0	79.7	
		Planned Net Savings (kW)	76.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	881.1	
		Annual % Toward Planned Net Reduction	0.18%	0.44%	1.01%	1.52%	2.50%	3.69%	4.83%	6.07%	7.36%	8.29%	8.82%	9.05%	9.05%	
		Avg. Gross Demand Reduction per Participant (kW)	0.14	0.15	0.19	0.23	0.26	0.26	0.33	0.28	0.26	0.25	0.17	0.20	0.2	
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	2.7	3.7	7.2	5.8	10.8	12.9	11.7	13.3	14.3	10.4	7.0	2.8	102.6	
		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)	2.7	3.7	7.2	5.8	10.8	12.9	11.7	13.3	14.3	10.4	7.0	2.8	102.6	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kW)	-0.3	-0.4	-0.7	-0.6	-1.1	-1.3	-1.2	-1.3	-1.4	-1.0	-0.7	-0.3	-10.3	
		Net Adjusted Demand Reduction (kW)	2.4	3.3	6.5	5.2	9.7	11.6	10.5	12.0	12.9	9.4	6.3	2.5	92.4	
		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)	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	
		Avg. Net Demand Reduction per Participant (kW)	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.3	
Cumulative Annual Program Performance	\$Admin. per Participant (Gross)		\$170	\$156	\$135	\$127	\$110	\$100	\$95	\$89	\$83	\$81	\$79	\$81	\$81	
	\$Admin. per kWh/year (Gross)		\$0	\$0	\$0.09	\$0.09	\$0.07	\$0.07	\$0.07	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06	
	\$Admin. per kW (Gross)		\$905	\$868	\$743	\$676	\$542	\$468	\$415	\$376	\$349	\$336	\$336	\$344	\$344	
	\$EM&V per \$Total		8.8%	8.1%	8.7%	9.2%	9.5%	9.2%	9.1%	9.1%	9.1%	8.9%	8.7%	9.0%	9.0%	
	\$Rebate per Participant (Gross)		\$314	\$316	\$315	\$315	\$312	\$314	\$313	\$311	\$309	\$308	\$311	\$311	\$311	



J.14.3 2021-2023 Virginia Residential Water Savings Program  
(Phase IX) Measure Indicator Tables

VA - Residential Water Savings Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Domestic Heat Pump Water Heater	Total Participants	0	42	180	222
Installed kWh/year	Domestic Heat Pump Water Heater	Total Gross Energy Savings (kWh/yr)	0	59,652	228,800	288,451
	Domestic Heat Pump Water Heater	Realization Rate	N/A	100%	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	N/A	90%	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Savings (kWh/yr)	0	53,686	205,920	259,606
	Domestic Heat Pump Water Heater	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,420	1,271	1,299
	Domestic Heat Pump Water Heater	Avg. Net Savings per Participant (kWh/yr)	N/A	1,278	1,144	1,169
Installed Summer peak kW	Domestic Heat Pump Water Heater	Total Gross Demand Reduction (kW)	0.0	4.6	20.4	25.0
	Domestic Heat Pump Water Heater	Realization Rate	N/A	100%	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	N/A	90%	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Demand Reduction (kW)	0.0	4.2	18.4	22.5
	Domestic Heat Pump Water Heater	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.1	0.1
	Domestic Heat Pump Water Heater	Avg. Net Demand Reduction per Participant (kW)	N/A	0.10	0.1	0.1
Installed Winter peak kW	Domestic Heat Pump Water Heater	Total Gross Demand Reduction (kW)	-	7.9	34.5	42.4
	Domestic Heat Pump Water Heater	Realization Rate	-	100%	100%	100%
	Domestic Heat Pump Water Heater	Net-To-Gross Rate	-	90%	90%	90%
	Domestic Heat Pump Water Heater	Net Adjusted Demand Reduction (kW)	-	7.1	31.0	38.2
	Domestic Heat Pump Water Heater	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2	0.2
	Domestic Heat Pump Water Heater	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2	0.2
	Pool Pump	Total Participants	0	20	188	208
Installed kWh/year	Pool Pump	Total Gross Energy Savings (kWh/yr)	0	38,042	284,821	322,863
	Pool Pump	Realization Rate	N/A	100%	100%	100%
	Pool Pump	Net-To-Gross Rate	N/A	90%	90%	90%
	Pool Pump	Net Adjusted Savings (kWh/yr)	0	34,238	256,339	290,577
	Pool Pump	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,902	1,515	1,552
	Pool Pump	Avg. Net Savings per Participant (kWh/yr)	N/A	1,712	1,364	1,397
Installed Summer peak kW	Pool Pump	Total Gross Demand Reduction (kW)	0.0	7.6	68.2	75.8
	Pool Pump	Realization Rate	N/A	100%	100%	100%
	Pool Pump	Net-To-Gross Rate	N/A	90%	90%	90%
	Pool Pump	Net Adjusted Demand Reduction (kW)	0.0	6.9	61.3	68.2
	Pool Pump	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.4	0.4	0.4
	Pool Pump	Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.3	0.3
Installed Winter peak kW	Pool Pump	Total Gross Demand Reduction (kW)	-	7.6	68.2	75.8
	Pool Pump	Realization Rate	-	100%	100%	100%
	Pool Pump	Net-To-Gross Rate	-	90%	90%	90%
	Pool Pump	Net Adjusted Demand Reduction (kW)	-	6.9	61.3	68.2
	Pool Pump	Avg. Gross Demand Reduction per Participant (kW)	-	0.4	0.4	0.4
	Pool Pump	Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.3	0.3

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J.14.4 2021-2023 Virginia Residential Water Savings Program (Phase IX) Comparison of Savings to Usage by Rate Schedule

Program_Azonym	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
RWEE	100	Schedule 1	1275.90331	1968.3	0.648226038	11234.08933	0.113574254
RWEE	101	Schedule 1S	1193.890137	1968.3	0.606559029	24390.57592	0.048948829
RWEE	103	Schedule 1T	749.26214	1968.3	0.380664604	16151.05163	0.04639092
RWEE	160	Schedule 1	1275.90331	1968.3	0.648226038	Not Available	Not Available
RWEE	163	Schedule 1	1275.90331	1968.3	0.648226038	Not Available	Not Available
RWEE	165	Schedule 1T	749.26214	1968.3	0.380664604	Not Available	Not Available
RWEE	237	Schedule DP-R	1758.738364	1968.3	0.893531859	10480.42795	0.167811708
RWEE	260	Schedule 1G	1573.086723	1968.3	0.799210854	11285.34679	0.13939197
RWEE	All Codes	All Rates	1279.494935	1968.3	0.650050772	Not Available	Not Available

J.14.5 2021-2023 Virginia Residential Water Savings Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Residential Water Savings	2020	VA	PUR-2020-00274	0.85	7.11	6.80	6.94
9	Residential Water Savings	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Residential Water Savings	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Residential Water Savings	2023	VA	PUR-2023-00217	4.98	1.22	1.04	0.25
9	Residential Water Savings	2024	VA	EM&V Report	4.05	1.34	1.15	0.3

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**J.15 Virginia Residential HVAC Health and Safety Program (Phase VIII) 2020–2023**

**J.15.1 2020-2023 Virginia Residential HVAC Health and Safety Program (Phase VIII) Annual Indicator Tables**

VA - Residential HVAC Health and Safety 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	\$49,722	\$9,094,648	\$12,192,181	\$9,682,714	\$31,019,265
Costs (\$)		Planned	\$0	\$10,821,869	\$10,948,523	\$10,850,431	\$32,620,823
Costs (\$)		Variance	\$49,722	-\$1,727,220	\$1,243,658	-\$1,167,717	-\$1,601,557
		Annual % of Planned	N/A	84%	111%	89%	95%
Participants <sup>1</sup>		Total (Gross)	0	3,361	3,661	3,693	10,715
		Planned	0	8,791	8,791	8,791	26,373
		Variance	0	-5,430	-5,130	-5,098	-15,658
		Annual % of Planned (Gross)	N/A	38%	42%	42%	41%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	1,341,418	999,178	796,194	3,136,790
		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	1,341,418	999,178	796,194	3,136,790
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	0	-268,284	-199,836	-159,239	-627,358
		Net Adjusted Savings (kWh/yr)	0	1,073,134	799,342	636,955	2,509,432
		Planned Net Savings (kWh/yr)	0	5,802,060	5,802,060	5,802,060	17,406,180
		Annual % Toward Planned Net Savings	N/A	18.5%	13.8%	11.0%	14.4%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	399	273	216	293
		Avg. Net Savings per Participant (kWh/yr)	N/A	319	218	172	234
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	200.2	194.1	141.0	535.3
		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	200.2	194.1	141.0	535.3
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%	80%
		Net-To-Gross Adjustment (kW)	0.0	-40.0	-38.8	-28.2	-107.1
		Net Adjusted Demand Reduction (kW)	0.0	160.2	155.3	112.8	428.2
		Planned Net Savings (kW)	0.0	6,841.6	6,841.6	6,841.6	20,524.9
		Annual % Toward Planned Net Reduction	N/A	2.34%	2.27%	1.65%	2.09%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.06	0.05	0.04	0.05
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.05	0.04	0.03	0.04
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	295.0	296.2	246.5	837.7
		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)	-	295.0	296.2	246.5	837.7
		Net-To-Gross Rate Weighted by Measure	-	80%	80%	80%	80%
		Net-To-Gross Adjustment (kW)	-	-59.0	-59.2	-49.3	-167.5
		Net Adjusted Demand Reduction (kW)	-	236.0	237.0	197.2	670.2
		Planned Net Savings (kW)	0.0	2,473.7	2,473.7	2,473.7	7,421.2
		Annual % Toward Planned Net Reduction	-	9.54%	9.58%	7.97%	9.03%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.09	0.08	0.07	0.08
		Avg. Net Demand Reduction per Participant (kW)	-	0.07	0.06	0.05	0.06
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$128	\$134	\$149	\$149
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0	\$1	\$1
		\$Admin. per kW (Gross)	N/A	\$2,141	\$2,378	\$2,974	\$2,974
		\$EM&V per \$Total	93.0%	2.3%	1.7%	1.6%	1.6%
		\$Rebate per Participant (Gross)	N/A	\$2,141	\$2,433	\$2,301	\$2,301

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J.15.2 2023 Virginia Residential HVAC Health and Safety Program (Phase VIII) Monthly Indicator Tables

VA - Residential HVAC Health and Safety 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)	\$10,281	\$35,568	\$35,139	\$75,746	\$87,184	\$140,038	\$47,696	\$18,836	\$21,619	\$112,229	\$39,395	\$30,503	\$654,235			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$152,159	\$526,414	\$520,065	\$1,121,044	\$1,290,333	\$2,072,577	\$705,901	\$278,773	\$319,967	\$1,660,993	\$583,043	\$451,445	\$9,682,714			
Costs (\$)		Planned	\$723,362	\$723,362	\$723,362	\$723,362	\$723,362	\$723,362	\$1,085,043	\$1,085,043	\$1,085,043	\$1,085,043	\$1,085,043	\$1,085,043	\$10,850,431			
Costs (\$)		Variance	-\$571,203	-\$196,948	-\$203,297	\$397,682	\$566,970	\$1,349,215	-\$379,142	-\$806,270	-\$765,076	\$575,950	-\$502,000	-\$633,588	-\$1,167,717			
		Annual % of Planned	1.4%	6.3%	11.0%	21.4%	33.3%	52.4%	58.9%	61.4%	64.4%	79.7%	85.1%	89.2%	89%			
Participants <sup>1</sup>		Total (Gross)	19	66	483	356	430	589	197	31	213	592	221	496	3,693			
		Planned	739	732	732	732	732	732	732	732	732	732	732	732	8,791			
		Variance	-720	-666	-249	-376	-302	-143	-535	-701	-519	-140	-511	-236	-5,098			
		Annual % of Planned (Gross)	0%	1%	6%	11%	15%	22%	24%	25%	27%	34%	36%	42%	42%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	23,935	36,617	95,145	77,437	104,367	122,251	38,292	18,956	25,581	99,099	63,942	90,572	796,194			
		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)	23,935	36,617	95,145	77,437	104,367	122,251	38,292	18,956	25,581	99,099	63,942	90,572	796,194			
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%			
		Net-To-Gross Adjustment (kWh/yr)	-4,787	-7,323	-19,029	-15,487	-20,873	-24,450	-7,658	-3,791	-5,116	-19,820	-12,788	-18,114	-159,239			
		Net Adjusted Savings (kWh/yr)	19,148	29,294	76,116	61,950	83,493	97,801	30,634	15,164	20,465	79,279	51,153	72,458	636,955			
		Planned Net Savings (kWh/yr)	487,740	483,120	483,120	483,120	483,120	483,120	483,120	483,120	483,120	483,120	483,120	483,120	5,802,060			
		Annual % Toward Planned Net Savings	0.33%	0.83%	2.15%	3.21%	4.65%	6.34%	6.87%	7.13%	7.48%	8.85%	9.73%	11.0%	11.0%			
		Avg. Gross Savings per Participant (kWh/yr)	1,260	555	197	218	243	208	194	611	120	167	289	183	216			
		Avg. Net Savings per Participant (kWh/yr)	1,008	444	158	174	194	166	156	489	96	134	231	146	172			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	9.8	5.6	13.1	18.7	11.6	28.4	8.2	4.7	4.6	25.3	9.5	3.6	141.0			
		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)	9.8	5.6	13.1	18.7	11.6	28.4	8.2	4.7	4.6	25.3	9.5	3.6	141.0			
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%			
		Net-To-Gross Adjustment (kW)	-2.0	-1.1	-2.6	-3.7	-2.3	-5.3	-1.6	-0.9	-0.9	-5.1	-1.9	-0.7	-28.2			
		Net Adjusted Demand Reduction (kW)	7.8	4.4	10.5	14.9	9.2	21.1	6.6	3.7	3.6	20.3	7.6	2.9	112.8			
		Planned Net Savings (kW)	575.1	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	569.7	6,841.6			
		Annual % Toward Planned Net Reduction	0.11%	0.18%	0.33%	0.55%	0.69%	0.99%	1.09%	1.15%	1.20%	1.50%	1.61%	1.65%	1.65%			
		Avg. Gross Demand Reduction per Participant (kW)	0.52	0.08	0.03	0.05	0.03	0.04	0.04	0.15	0.02	0.04	0.04	0.01	0.04			
		Avg. Net Demand Reduction per Participant (kW)	0.4	0.07	0.02	0.04	0.02	0.04	0.03	0.1	0.02	0.03	0.03	0.01	0.03			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	3.2	15.6	21.4	24.7	24.7	52.9	17.9	8.0	8.5	44.5	16.9	8.1	246.5			
		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)	3.2	15.6	21.4	24.7	24.7	52.9	17.9	8.0	8.5	44.5	16.9	8.1	246.5			
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%			
		Net-To-Gross Adjustment (kW)	-0.6	-3.1	-4.3	-4.9	-4.9	-10.6	-3.6	-1.6	-1.7	-8.9	-3.4	-1.6	-49.3			
		Net Adjusted Demand Reduction (kW)	2.8	12.5	17.1	19.8	19.8	42.3	14.3	6.4	6.8	35.6	13.5	6.5	197.2			
		Planned Net Savings (kW)	207.9	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	2,473.7			
		Annual % Toward Planned Net Reduction	0.10%	0.61%	1.30%	2.10%	2.90%	4.81%	5.19%	5.45%	5.72%	7.16%	7.71%	7.97%	7.97%			
		Avg. Gross Demand Reduction per Participant (kW)	0.2	0.2	0.04	0.07	0.08	0.09	0.09	0.3	0.04	0.08	0.08	0.02	0.07			
		Avg. Net Demand Reduction per Participant (kW)	0.1	0.2	0.04	0.06	0.05	0.07	0.07	0.2	0.03	0.06	0.06	0.01	0.05			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$135	\$138	\$134	\$138	\$141	\$147	\$149	\$151	\$150	\$152	\$153	\$149	\$149			
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$1	\$1	\$1			
		\$Admin. per kW (Gross)	\$2,346	\$2,401	\$2,409	\$2,479	\$2,608	\$2,757	\$2,808	\$2,820	\$2,837	\$2,915	\$2,937	\$2,974	\$2,974			
		\$EM&V per \$Total	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%			
		\$Rebate per Participant (Gross)	\$2,440	\$2,474	\$2,368	\$2,374	\$2,374	\$2,404	\$2,411	\$2,424	\$2,394	\$2,386	\$2,379	\$2,301	\$2,301			



J.15.3 2020–2023 Virginia Residential HVAC Health and Safety Program (Phase VIII) Measure Indicator Tables

VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed kWh/year	Air quality control	Total Participants	0	18	110	176	304
	Air quality control	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Air quality control	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Air quality control	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Air quality control	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Air quality control	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Air quality control	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Air quality control	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Air quality control	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Air quality control	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Air quality control	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Air quality control	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Air quality control	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Air quality control						
Installed Winter peak kW	Air quality control	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Air quality control	Realization Rate	-	N/A	N/A	N/A	N/A
	Air quality control	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Air quality control	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Air quality control	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Air quality control	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Air quality control						
Installed kWh/year	Air sealing	Total Participants	0	127	119	126	372
	Air sealing	Total Gross Energy Savings (kWh/yr)	0	22,562	27,170	22,488	72,220
	Air sealing	Realization Rate	N/A	100%	100%	100%	100%
	Air sealing	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Air sealing	Net Adjusted Savings (kWh/yr)	0	18,050	21,736	17,990	57,776
	Air sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	178	228	178	194
	Air sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	142	183	143	155
Installed Summer peak kW	Air sealing	Total Gross Demand Reduction (kW)	0.0	1.9	3.5	2.9	8.3
	Air sealing	Realization Rate	N/A	100%	100%	100%	100%
	Air sealing	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Air sealing	Net Adjusted Demand Reduction (kW)	0.0	1.5	2.8	2.4	6.6
	Air sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.03	0.02	0.02
	Air sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.02	0.02	0.02
	Air sealing						
Installed Winter peak kW	Air sealing	Total Gross Demand Reduction (kW)	-	23.4	27.5	25.3	76.2
	Air sealing	Realization Rate	-	100%	100%	100%	100%
	Air sealing	Net-To-Gross Rate	-	80%	80%	80%	80%
	Air sealing	Net Adjusted Demand Reduction (kW)	-	18.7	22.0	20.3	61.0
	Air sealing	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2	0.2	0.2
	Air sealing	Avg. Net Demand Reduction per Participant (kW)	-	0.1	0.2	0.2	0.2
	Air sealing						
Assessments of indoor air quality	Assessments of indoor air quality	Total Participants	0	109	52	55	216
	Assessments of indoor air quality	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Assessments of indoor air quality	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Assessments of indoor air quality	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Assessments of indoor air quality	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Assessments of indoor air quality	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Assessments of indoor air quality	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Assessments of indoor air quality	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Assessments of indoor air quality	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Assessments of indoor air quality						
Installed Winter peak kW	Assessments of indoor air quality	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0

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VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Assessments of indoor air quality	Realization Rate	-	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Assessments of indoor air quality	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Assessments of indoor air quality	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Assessments of indoor air quality	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Carbon monoxide detectors and sources	Total Participants	0	989	415	9	1,413
Installed kWh/year	Carbon monoxide detectors and sources	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Carbon monoxide detectors and sources	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Carbon monoxide detectors and sources	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Carbon monoxide detectors and sources	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Carbon monoxide detectors and sources	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Carbon monoxide detectors and sources	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Carbon monoxide detectors and sources	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Carbon monoxide detectors and sources	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Carbon monoxide detectors and sources	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Carbon monoxide detectors and sources	Realization Rate	-	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Carbon monoxide detectors and sources	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Carbon monoxide detectors and sources	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Carbon monoxide detectors and sources	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Combustion appliance safety checks / enhancements	Total Participants	0	3	1	0	4
Installed kWh/year	Combustion appliance safety checks / enhancements	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Combustion appliance safety checks / enhancements	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Combustion appliance safety checks / enhancements	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	N/A	0
	Combustion appliance safety checks / enhancements	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	N/A	0
Installed Summer peak kW	Combustion appliance safety checks / enhancements	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Combustion appliance safety checks / enhancements	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Combustion appliance safety checks / enhancements	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	N/A	0.0
	Combustion appliance safety checks / enhancements	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	N/A	0.0
Installed Winter peak kW	Combustion appliance safety checks / enhancements	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Combustion appliance safety checks / enhancements	Realization Rate	-	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Combustion appliance safety checks / enhancements	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Combustion appliance safety checks / enhancements	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	N/A	-
	Combustion appliance safety checks / enhancements	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	N/A	-
	Dehumidifiers	Total Participants	0	1	3	1	5
Installed kWh/year	Dehumidifiers	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Dehumidifiers	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Dehumidifiers	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Dehumidifiers	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Dehumidifiers	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Dehumidifiers	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Dehumidifiers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Dehumidifiers	Realization Rate	N/A	N/A	N/A	N/A	N/A





VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Dehumidifiers	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Dehumidifiers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Dehumidifiers	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Dehumidifiers	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Dehumidifiers	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Dehumidifiers	Realization Rate	-	N/A	N/A	N/A	N/A
	Dehumidifiers	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Dehumidifiers	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Dehumidifiers	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Dehumidifiers	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Duct Sealing	Total Participants	0	354	90	40	484
Installed kWh/year	Duct Sealing	Total Gross Energy Savings (kWh/yr)	0	191,965	135,621	61,955	389,540
	Duct Sealing	Realization Rate	N/A	100%	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Duct Sealing	Net Adjusted Savings (kWh/yr)	0	153,572	108,497	49,564	311,632
	Duct Sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	542	1,507	1,549	805
	Duct Sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	434	1,206	1,239	644
Installed Summer peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	0.0	73.3	72.1	27.9	173.2
	Duct Sealing	Realization Rate	N/A	100%	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	0.0	58.6	57.7	22.3	138.6
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	0.8	0.7	0.4
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.6	0.6	0.3
Installed Winter peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	-	79.8	36.2	17.5	133.6
	Duct Sealing	Realization Rate	-	100%	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	-	80%	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	-	63.9	28.9	14.0	106.8
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.4	0.4	0.3
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.3	0.4	0.2
	Fire and fall safety checks / enhancements	Total Participants	0	522	204	408	1,134
Installed kWh/year	Fire and fall safety checks / enhancements	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Fire and fall safety checks / enhancements	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Fire and fall safety checks / enhancements	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Fire and fall safety checks / enhancements	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Fire and fall safety checks / enhancements	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Fire and fall safety checks / enhancements	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Fire and fall safety checks / enhancements	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Fire and fall safety checks / enhancements	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Fire and fall safety checks / enhancements	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Fire and fall safety checks / enhancements	Realization Rate	-	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Fire and fall safety checks / enhancements	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Fire and fall safety checks / enhancements	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Fire and fall safety checks / enhancements	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Heat Pump Upgrade	Total Participants	0	752	1,039	722	2,513
Installed kWh/year	Heat Pump Upgrade	Total Gross Energy Savings (kWh/yr)	0	247,643	369,269	342,748	959,660
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	80%	80%	80%	80%



VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Heat Pump Upgrade	Net Adjusted Savings (kWh/yr)	0	198,115	295,415	274,198	767,728
	Heat Pump Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	329	355	475	382
	Heat Pump Upgrade	Avg. Net Savings per Participant (kWh/yr)	N/A	263	284	380	306
Installed Summer peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	0.0	105.5	96.7	99.3	301.6
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	0.0	84.4	77.4	79.5	241.2
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.09	0.1	0.1
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	0.1	0.07	0.1	0.10
Installed Winter peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	-	133.1	196.2	187.2	516.5
	Heat Pump Upgrade	Realization Rate	-	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	-	80%	80%	80%	80%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	-	106.5	156.9	149.8	413.2
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2	0.3	0.2
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	0.1	0.2	0.2	0.2
	HVAC / home ventilation improvements	Total Participants	0	167	94	265	526
Installed kWh/year	HVAC / home ventilation improvements	Total Gross Energy Savings (kWh/yr)	0	5,849	36,324	58,922	101,094
	HVAC / home ventilation improvements	Realization Rate	N/A	100%	100%	100%	100%
	HVAC / home ventilation improvements	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	HVAC / home ventilation improvements	Net Adjusted Savings (kWh/yr)	0	4,679	29,059	47,138	80,875
	HVAC / home ventilation improvements	Avg. Gross Savings per Participant (kWh/yr)	N/A	35	386	222	192
	HVAC / home ventilation improvements	Avg. Net Savings per Participant (kWh/yr)	N/A	28	309	178	154
Installed Summer peak kW	HVAC / home ventilation improvements	Total Gross Demand Reduction (kW)	0.0	0.7	4.2	6.8	11.7
	HVAC / home ventilation improvements	Realization Rate	N/A	100%	100%	100%	100%
	HVAC / home ventilation improvements	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	HVAC / home ventilation improvements	Net Adjusted Demand Reduction (kW)	0.0	0.6	3.3	5.4	9.3
	HVAC / home ventilation improvements	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.04	0.03	0.02
	HVAC / home ventilation improvements	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.04	0.02	0.02
Installed Winter peak kW	HVAC / home ventilation improvements	Total Gross Demand Reduction (kW)	-	0.7	4.2	6.8	11.7
	HVAC / home ventilation improvements	Realization Rate	-	100%	100%	100%	100%
	HVAC / home ventilation improvements	Net-To-Gross Rate	-	80%	80%	80%	80%
	HVAC / home ventilation improvements	Net Adjusted Demand Reduction (kW)	-	0.6	3.3	5.4	9.3
	HVAC / home ventilation improvements	Avg. Gross Demand Reduction per Participant (kW)	-	0.00	0.04	0.03	0.02
	HVAC / home ventilation improvements	Avg. Net Demand Reduction per Participant (kW)	-	0.00	0.04	0.02	0.02
	HVAC Tune Up	Total Participants	0	0	199	7	206
Installed kWh/year	HVAC Tune Up	Total Gross Energy Savings (kWh/yr)	0	0	24,076	1,162	25,238
	HVAC Tune Up	Realization Rate	N/A	N/A	100%	100%	100%
	HVAC Tune Up	Net-To-Gross Rate	N/A	N/A	80%	80%	80%
	HVAC Tune Up	Net Adjusted Savings (kWh/yr)	0	0	19,261	929	20,190
	HVAC Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	121	166	123
	HVAC Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	97	133	98
Installed Summer peak kW	HVAC Tune Up	Total Gross Demand Reduction (kW)	0.0	0.0	12.6	0.5	13.1
	HVAC Tune Up	Realization Rate	N/A	N/A	100%	100%	100%
	HVAC Tune Up	Net-To-Gross Rate	N/A	N/A	80%	80%	80%
	HVAC Tune Up	Net Adjusted Demand Reduction (kW)	0.0	0.0	10.1	0.4	10.5
	HVAC Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.06	0.07	0.06
	HVAC Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.05	0.06	0.05
Installed Winter peak kW	HVAC Tune Up	Total Gross Demand Reduction (kW)	-	-	9.4	0.5	9.8
	HVAC Tune Up	Realization Rate	-	-	100%	100%	100%
	HVAC Tune Up	Net-To-Gross Rate	-	-	80%	80%	80%
	HVAC Tune Up	Net Adjusted Demand Reduction (kW)	-	-	7.5	0.4	7.9
	HVAC Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.05	0.07	0.05



VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	HVAC Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	-	0.04	0.05	0.04
	Insulation repair/upgrade floor	Total Participants	0	450	47	8	505
Installed kWh/year	Insulation repair/upgrade floor	Total Gross Energy Savings (kWh/yr)	0	79,730	19,061	3,405	102,196
	Insulation repair/upgrade floor	Realization Rate	N/A	100%	100%	100%	100%
	Insulation repair/upgrade floor	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Insulation repair/upgrade floor	Net Adjusted Savings (kWh/yr)	0	63,784	15,249	2,724	81,757
	Insulation repair/upgrade floor	Avg. Gross Savings per Participant (kWh/yr)	N/A	177	406	426	202
	Insulation repair/upgrade floor	Avg. Net Savings per Participant (kWh/yr)	N/A	142	324	341	162
Installed Summer peak kW	Insulation repair/upgrade floor	Total Gross Demand Reduction (kW)	0.0	18.4	3.6	0.8	22.8
	Insulation repair/upgrade floor	Realization Rate	N/A	100%	100%	100%	100%
	Insulation repair/upgrade floor	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Insulation repair/upgrade floor	Net Adjusted Demand Reduction (kW)	0.0	14.7	2.9	0.7	18.3
	Insulation repair/upgrade floor	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.04	0.08	0.1	0.05
	Insulation repair/upgrade floor	Avg. Net Demand Reduction per Participant (kW)	N/A	0.03	0.06	0.08	0.04
Installed Winter peak kW	Insulation repair/upgrade floor	Total Gross Demand Reduction (kW)	-	55.9	16.8	3.1	76.8
	Insulation repair/upgrade floor	Realization Rate	-	100%	100%	100%	100%
	Insulation repair/upgrade floor	Net-To-Gross Rate	-	80%	80%	80%	80%
	Insulation repair/upgrade floor	Net Adjusted Demand Reduction (kW)	-	45.5	13.4	2.5	61.5
	Insulation repair/upgrade floor	Avg. Gross Demand Reduction per Participant (kW)	-	0.1	0.4	0.4	0.2
	Insulation repair/upgrade floor	Avg. Net Demand Reduction per Participant (kW)	-	0.1	0.3	0.3	0.1
Installed kWh/year	Insulation repair/upgrade wall	Total Participants	0	14	87	42	143
	Insulation repair/upgrade wall	Total Gross Energy Savings (kWh/yr)	0	1,466	6,318	7,868	15,652
	Insulation repair/upgrade wall	Realization Rate	N/A	100%	100%	100%	100%
	Insulation repair/upgrade wall	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Insulation repair/upgrade wall	Net Adjusted Savings (kWh/yr)	0	1,173	5,054	6,294	12,522
	Insulation repair/upgrade wall	Avg. Gross Savings per Participant (kWh/yr)	N/A	105	73	187	109
	Insulation repair/upgrade wall	Avg. Net Savings per Participant (kWh/yr)	N/A	84	58	150	88
Installed Summer peak kW	Insulation repair/upgrade wall	Total Gross Demand Reduction (kW)	0.0	0.5	1.5	2.7	4.6
	Insulation repair/upgrade wall	Realization Rate	N/A	100%	100%	100%	100%
	Insulation repair/upgrade wall	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Insulation repair/upgrade wall	Net Adjusted Demand Reduction (kW)	0.0	0.4	1.2	2.2	3.7
	Insulation repair/upgrade wall	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.03	0.02	0.06	0.03
	Insulation repair/upgrade wall	Avg. Net Demand Reduction per Participant (kW)	N/A	0.03	0.01	0.05	0.03
Installed Winter peak kW	Insulation repair/upgrade wall	Total Gross Demand Reduction (kW)	-	1.0	6.0	6.1	13.1
	Insulation repair/upgrade wall	Realization Rate	-	100%	100%	100%	100%
	Insulation repair/upgrade wall	Net-To-Gross Rate	-	80%	80%	80%	80%
	Insulation repair/upgrade wall	Net Adjusted Demand Reduction (kW)	-	0.8	4.8	4.9	10.5
	Insulation repair/upgrade wall	Avg. Gross Demand Reduction per Participant (kW)	-	0.07	0.07	0.1	0.09
	Insulation repair/upgrade wall	Avg. Net Demand Reduction per Participant (kW)	-	0.06	0.06	0.1	0.07
Installed kWh/year	Mold/mildew removal	Total Participants	0	1	7	4	12
	Mold/mildew removal	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Mold/mildew removal	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Mold/mildew removal	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
	Mold/mildew removal	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Mold/mildew removal	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Mold/mildew removal	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Mold/mildew removal	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Mold/mildew removal	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0



VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed Winter peak kW	Mold/mildew removal	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Mold/mildew removal	Realization Rate	-	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Mold/mildew removal	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Mold/mildew removal	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Mold/mildew removal	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
Installed kWh/year	Re-wiring	Total Participants	0	13	39	65	117
	Re-wiring	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Re-wiring	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Re-wiring	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Re-wiring	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Re-wiring	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Re-wiring	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Re-wiring	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Re-wiring	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Re-wiring	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Re-wiring	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Re-wiring	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Re-wiring	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Re-wiring	Realization Rate	-	N/A	N/A	N/A	N/A
	Re-wiring	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Re-wiring	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Re-wiring	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Re-wiring	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
Installed kWh/year	Roof repairs	Total Participants	0	11	21	6	38
	Roof repairs	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	Roof repairs	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Roof repairs	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Roof repairs	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	Roof repairs	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0	0
Installed Summer peak kW	Roof repairs	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Roof repairs	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Roof repairs	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Roof repairs	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Roof repairs	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Roof repairs	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Roof repairs	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Roof repairs	Realization Rate	-	N/A	N/A	N/A	N/A
	Roof repairs	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Roof repairs	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Roof repairs	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Roof repairs	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
Installed kWh/year	Thermostat replacement	Total Participants	0	2,936	3,299	3,193	9,428
	Thermostat replacement	Total Gross Energy Savings (kWh/yr)	0	792,203	381,340	297,846	1,471,189
	Thermostat replacement	Realization Rate	N/A	100%	100%	100%	100%
	Thermostat replacement	Net-To-Gross Rate	N/A	80%	80%	80%	80%
	Thermostat replacement	Net Adjusted Savings (kWh/yr)	0	633,763	305,072	238,117	1,176,951
	Thermostat replacement	Avg. Gross Savings per Participant (kWh/yr)	N/A	270	116	93	156
Installed Summer peak kW	Thermostat replacement	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Thermostat replacement	Realization Rate	-	N/A	N/A	N/A	N/A
	Thermostat replacement	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Thermostat replacement	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Thermostat replacement	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Thermostat replacement	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-

VA - Residential HVAC Health and Safety Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed Summer peak kW	Thermostat replacement	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Thermostat replacement	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Thermostat replacement	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Thermostat replacement	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Thermostat replacement	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
	Thermostat replacement	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Thermostat replacement	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Thermostat replacement	Realization Rate	-	N/A	N/A	N/A	N/A
	Thermostat replacement	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Thermostat replacement	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Thermostat replacement	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Thermostat replacement	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-



**J.15.4 2020–2023 Virginia Residential HVAC Health and Safety Program (Phase VIII) Comparison of Savings to Usage by Rate Schedule**

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
RHVC	100	Schedule 1	233.277326	660	0.353450494	11234.08933	0.02076513
RHVC	101	Schedule 15	1373.340164	660	2.08081843	24390.57592	0.05630618
RHVC	110	Schedule GS-1	409.932457	660	0.621109783	25717.7424	0.015939675
RHVC	160	Schedule 1	233.277326	660	0.353450494	Not Available	Not Available
RHVC	163	Schedule 1	233.277326	660	0.353450494	Not Available	Not Available
RHVC	192	Schedule 24	1194.937842	660	1.810511882	934.6952445	1.278425079
RHVC	193	Schedule 27	529.308052	660	0.801981897	2047.719024	0.35948666
RHVC	194	Schedule 28	850.790977	660	1.289077238	3066.246057	0.277469897
RHVC	237	Schedule DP-R	55.015514	660	0.083356839	10480.42705	0.005249358
RHVC	240	Schedule 1EV	280.609287	660	0.425165586	16616.93548	0.016888946
RHVC	260	Schedule 1G	200.108928	660	0.303195345	11285.34679	0.017731748
RHVC	All Codes	All Rates	234.198007	660	0.354845465	Not Available	Not Available

**J.15.5 2020–2023 Virginia Residential HVAC Health and Safety Program (Phase VIII) Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Residential HVAC Health and Safety	2019	VA	PUR-2019-00201	++	0.53	0.53	0.31
8	Residential HVAC Health and Safety	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Residential HVAC Health and Safety	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Residential HVAC Health and Safety	2022	VA	PUR-2022-00210	2.08	0.24	0.30	0.17
8	Residential HVAC Health and Safety	2023	VA	PUR-2023-00217	2.34	0.29	0.37	0.18
8	Residential HVAC Health and Safety	2024	VA	EM&V Report				

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**J.16 Virginia Residential and Non-Residential Solar (HB 2789) Program (Phase IX) 2021-2023**

**J.16.1 2021-2023 Virginia Residential and Non-Residential Solar (HB 2789) Program (Phase IX) Annual Indicator Tables**

VA - Income and Age Qualifying Solar Program 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	\$10,963	\$196,159	\$4,633,026	\$4,840,149
Costs (\$)		Planned	\$0	\$10,522,665	\$10,234,165	\$20,756,831
Costs (\$)		Variance	\$10,963	-\$10,326,506	-\$5,601,139	-\$15,916,682
		Annual % of Planned	N/A	2%	45%	23%
Participants <sup>1</sup>		Total (Gross)	0	7	130	137
		Planned	0	555	555	1,110
		Variance	0	-548	-425	-973
		Annual % of Planned (Gross)	N/A	1%	23%	12%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	34,559	822,872	857,431
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	34,559	822,872	857,431
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	0	-6,912	-164,574	-171,486
		Net Adjusted Savings (kWh/yr)	0	27,647	658,298	685,945
		Planned Net Savings (kWh/yr)	0	2,037,960	2,037,960	4,075,920
		Annual % Toward Planned Net Savings	N/A	1.36%	32.3%	16.8%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	4,937	6,330	6,259
		Avg. Net Savings per Participant (kWh/yr)	N/A	3,950	5,064	5,007
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	12.4	296.3	308.7
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	12.4	296.3	308.7
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%
		Net-To-Gross Adjustment (kW)	0.0	-2.5	-59.3	-61.7
		Net Adjusted Demand Reduction (kW)	0.0	10.0	237.0	247.0
		Planned Net Savings (kW)	0.0	976.3	976.3	1,952.7
		Annual % Toward Planned Net Reduction	N/A	1.02%	24.3%	12.6%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	1.8	2.3	2.3
		Avg. Net Demand Reduction per Participant (kW)	N/A	1.4	1.8	1.8
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	2.2	2.2	4.4
		Annual % Toward Planned Net Reduction	-	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
		Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$1,243	\$2,349	\$2,349
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0	\$0
		\$Admin. per kW (Gross)	N/A	\$699	\$1,042	\$1,042
		\$EM&V per \$Total	25.7%	9.5%	1.8%	1.8%
		\$Rebate per Participant (Gross)	N/A	\$18,194	\$19,048	\$19,048

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J.16.2 2023 Virginia Residential and Non-Residential Solar (HB 2789) Program (Phase IX) Monthly Indicator Tables

VA - Income and Age Qualifying Solar Program 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)	\$10,607	\$16,324	\$24,915	\$9,885	\$25,954	\$49,234	\$19,260	\$42,685	\$30,382	\$55,615	\$20,945	\$7,337	\$313,041	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$158,987	\$241,689	\$368,737	\$146,284	\$384,117	\$728,864	\$285,050	\$630,254	\$449,649	\$823,110	\$309,985	\$108,591	\$4,633,026	
Costs (\$)		Planned	\$682,278	\$682,278	\$682,278	\$682,278	\$682,278	\$682,278	\$1,023,417	\$1,023,417	\$1,023,417	\$1,023,417	\$1,023,417	\$1,023,417	\$10,234,165	
Costs (\$)		Variance	-\$525,291	-\$440,688	-\$313,541	-\$535,984	-\$298,161	\$46,386	-\$738,367	-\$393,163	-\$573,768	-\$200,307	-\$713,432	-\$914,825	-\$5,601,139	
		Annual % of Planned	1.5%	3.9%	7.5%	8.9%	12.7%	19.8%	22.6%	28.7%	33.1%	41.2%	44.2%	45.3%	45%	
Participants <sup>1</sup>		Total (Gross)	2	7	11	4	11	21	7	18	13	24	9	3	130	
		Planned	49	46	46	46	46	46	46	46	46	46	46	46	555	
		Variance	-47	-39	-35	-42	-35	-25	-39	-28	-33	-22	-37	-43	-425	
		Annual % of Planned (Gross)	0%	2%	4%	4%	6%	10%	11%	15%	17%	21%	23%	23%	23%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	11,655	44,031	89,054	24,408	66,458	127,834	41,543	105,626	78,591	162,743	52,683	18,246	822,872	
		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)	11,655	44,031	89,054	24,408	66,458	127,834	41,543	105,626	78,591	162,743	52,683	18,246	822,872	
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	
		Net-To-Gross Adjustment (kWh/yr)	-2,331	-8,806	-17,811	-4,882	-13,292	-25,567	-8,309	-21,125	-15,718	-32,549	-10,537	-3,649	-164,574	
		Net Adjusted Savings (kWh/yr)	9,324	35,225	71,243	19,526	53,166	102,267	33,234	84,501	62,873	130,194	42,146	14,597	658,298	
		Planned Net Savings (kWh/yr)	179,928	168,912	168,912	168,912	168,912	168,912	168,912	168,912	168,912	168,912	168,912	168,912	2,037,960	
		Annual % Toward Planned Net Savings	0.46%	2.19%	5.68%	6.64%	9.25%	14.3%	15.9%	20.0%	23.1%	29.5%	31.6%	32.3%	32.3%	
		Avg. Gross Savings per Participant (kWh/yr)	5,828	6,290	8,096	6,102	6,042	6,067	5,935	5,868	6,045	6,781	5,854	6,082	6,330	
		Avg. Net Savings per Participant (kWh/yr)	4,662	5,032	6,477	4,882	4,833	4,870	4,748	4,694	4,836	5,425	4,683	4,866	5,064	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	4.2	15.9	32.1	8.8	23.9	46.0	15.0	38.0	28.3	58.6	19.0	6.6	296.3	
		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)	4.2	15.9	32.1	8.8	23.9	46.0	15.0	38.0	28.3	58.6	19.0	6.6	296.3	
		Net-To-Gross Rate Weighted by Measure	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	
		Net-To-Gross Adjustment (kW)	-0.8	-3.2	-6.4	-1.8	-4.8	-9.2	-3.0	-7.6	-5.7	-11.7	-3.8	-1.3	-59.3	
		Net Adjusted Demand Reduction (kW)	3.4	12.7	25.7	7.0	19.1	36.8	12.0	30.4	22.6	46.9	15.2	5.3	237.0	
		Planned Net Savings (kW)	86.2	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	976.3	
		Annual % Toward Planned Net Reduction	0.34%	1.64%	4.27%	4.99%	6.95%	10.7%	11.9%	15.1%	17.4%	22.2%	23.7%	24.3%	24.3%	
		Avg. Gross Demand Reduction per Participant (kW)	2.1	2.3	2.9	2.2	2.2	2.2	2.1	2.1	2.2	2.4	2.1	2.2	2.3	
		Avg. Net Demand Reduction per Participant (kW)	1.7	1.8	2.3	1.8	1.7	1.8	1.7	1.7	1.7	2.0	1.7	1.8	1.8	
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)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.2	
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
		Avg. Gross Demand Reduction per Participant (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	
		Avg. Net Demand Reduction per Participant (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	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$2,146	\$2,227	\$2,243	\$2,272	\$2,295	\$2,311	\$2,355	\$2,358	\$2,355	\$2,348	\$2,346	\$2,349	\$2,349	
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$Admin. per kW (Gross)	\$1,161	\$1,097	\$938	\$960	\$991	\$1,016	\$1,042	\$1,057	\$1,059	\$1,036	\$1,041	\$1,042	\$1,042	
		\$EM&V per \$Total	6.0%	4.1%	3.0%	3.3%	3.0%	2.8%	2.7%	2.3%	2.2%	1.9%	1.8%	1.8%	1.8%	
		\$Rebate per Participant (Gross)	\$18,311	\$18,490	\$18,348	\$18,388	\$18,555	\$18,770	\$18,813	\$19,003	\$19,013	\$19,063	\$19,043	\$19,048	\$19,048	

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J.16.3 2021–2023 Virginia Residential and Non-Residential Solar (HB 2789) Program  
(Phase IX) Measure Indicator Tables

VA - Income and Age Qualifying Solar Program Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Solar PV System	Total Participants	0	7	130	137
Installed kWh/year	Solar PV System	Total Gross Energy Savings (kWh/yr)	0	34,559	822,872	857,431
	Solar PV System	Realization Rate	N/A	100%	100%	100%
	Solar PV System	Net-To-Gross Rate	N/A	80%	80%	80%
	Solar PV System	Net Adjusted Savings (kWh/yr)	0	27,647	658,298	685,945
	Solar PV System	Avg. Gross Savings per Participant (kWh/yr)	N/A	4,937	6,330	6,259
	Solar PV System	Avg. Net Savings per Participant (kWh/yr)	N/A	3,950	5,064	5,007
Installed Summer peak kW	Solar PV System	Total Gross Demand Reduction (kW)	0.0	12.4	296.3	308.7
	Solar PV System	Realization Rate	N/A	100%	100%	100%
	Solar PV System	Net-To-Gross Rate	N/A	80%	80%	80%
	Solar PV System	Net Adjusted Demand Reduction (kW)	0.0	10.0	237.0	247.0
	Solar PV System	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.8	2.3	2.3
	Solar PV System	Avg. Net Demand Reduction per Participant (kW)	N/A	1.4	1.8	1.8
Installed Winter peak kW	Solar PV System	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Solar PV System	Realization Rate	-	N/A	N/A	N/A
	Solar PV System	Net-To-Gross Rate	-	N/A	N/A	N/A
	Solar PV System	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Solar PV System	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Solar PV System	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-





J.16.4 2021-2023 Virginia Residential and Non-Residential Solar (HB 2789) Program (Phase IX) 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
EALS	100	Schedule 1	5027.053435	3672	1.369023267	11234.08933	0.44748206
EALS	101	Schedule 15	5053.6	3672	1.376252723	24390.57592	0.20719478
EALS	160	Schedule 1	5027.053435	3672	1.369023267	Not Available	Not Available
EALS	163	Schedule 1	5027.053435	3672	1.369023267	Not Available	Not Available
EALS	193	Schedule 27	5195.2	3672	1.414814815	2047.719024	2.537066824
EALS	260	Schedule 10	4288	3672	1.167755991	11285.34679	0.37996174
EALS	All Codes	All Rates	5006.89635	3672	1.363533864	Not Available	Not Available

J.16.5 2021-2023 Virginia Residential and Non-Residential Solar (HB 2789) Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Income and Age Qualifying Solar Program	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
9	Income and Age Qualifying Solar Program	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Income and Age Qualifying Solar Program	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Income and Age Qualifying Solar Program	2023	VA	PUR-2023-00217	++	0.2	0.2	0.13
9	Income and Age Qualifying Solar Program	2024	VA	EM&V Report	++	0.4	0.4	0.23



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**J.17 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IX) 2021-2023**

**J.17.1 2021–2023 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IX) Annual Indicator Tables**

VA - Residential Income and Age Qualifying Energy Efficiency 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	\$15,696	\$5,853,130	\$8,094,395	\$13,963,221
Costs (\$)		Planned	\$0	\$7,426,787	\$7,199,954	\$14,626,741
Costs (\$)		Variance	\$15,696	-\$1,573,657	\$894,441	-\$663,520
		Annual % of Planned	N/A	79%	112%	95%
Participants <sup>1</sup>		Total (Gross)	0	4,782	5,151	9,933
		Planned	0	9,724	9,724	19,448
		Variance	0	-4,942	-4,573	-9,515
		Annual % of Planned (Gross)	N/A	49%	53%	51%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	3,096,191	4,090,052	7,186,243
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	3,096,191	4,090,052	7,186,243
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	0	-619,238	-818,010	-1,437,249
		Net Adjusted Savings (kWh/yr)	0	2,476,953	3,272,042	5,748,995
		Planned Net Savings (kWh/yr)	0	513,427	513,427	1,026,854
		Annual % Toward Planned Net Savings	N/A	482.4%	637.3%	559.9%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	647	794	723
		Avg. Net Savings per Participant (kWh/yr)	N/A	518	635	579
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	689.3	1,139.4	1,828.7
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	689.3	1,139.4	1,828.7
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%
		Net-To-Gross Adjustment (kW)	0.0	-137.9	-227.9	-365.7
		Net Adjusted Demand Reduction (kW)	0.0	551.5	911.5	1,463.0
		Planned Net Savings (kW)	0.0	132.0	132.0	264.0
		Annual % Toward Planned Net Reduction	N/A	417.7%	690.5%	554.1%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.1	0.2	0.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	1,713.7	2,258.1	3,971.8
		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)	-	1,713.7	2,258.1	3,971.8
		Net-To-Gross Rate Weighted by Measure	-	80%	80%	80%
		Net-To-Gross Adjustment (kW)	-	-342.7	-451.6	-794.4
		Net Adjusted Demand Reduction (kW)	-	1,371.0	1,806.4	3,177.4
		Planned Net Savings (kW)	0.0	293.6	293.6	587.2
		Annual % Toward Planned Net Reduction	-	467.0%	615.3%	541.1%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.4	0.4	0.4
		Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.4	0.3
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$51	\$80	\$80
		\$Admin. per kWh/year (Gross)	N/A	\$0.08	\$0	\$0
		\$Admin. per kW (Gross)	N/A	\$356	\$433	\$433
		\$EM&V per \$Total	68.2%	2.0%	1.8%	1.8%
		\$Rebate per Participant (Gross)	N/A	\$917	\$1,047	\$1,047

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J.17.2 2023 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IX) Monthly Indicator Tables

VA - Residential Income and Age Qualifying Energy Efficiency Program	2023	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 (\$)																	
O&M (\$)																	
O&M (\$)																	
O&M (\$)																	
Capital (\$)																	
Costs (\$)																	
Costs (\$)																	
Costs (\$)																	
Participants <sup>1</sup>																	
Installed kWh/year																	
Installed Summer peak kW																	
Installed Winter peak kW																	
Cumulative Annual Program Performance																	

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J.17.3 2021–2023 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IX) Measure Indicator Tables

VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
Installed kWh/year	40W LED	Total Participants	0	3,021	1,737	4,758
	40W LED	Total Gross Energy Savings (kWh/yr)	0	327,254	180,227	507,481
	40W LED	Realization Rate	N/A	100%	100%	100%
	40W LED	Net-To-Gross Rate	N/A	80%	80%	80%
	40W LED	Net Adjusted Savings (kWh/yr)	0	261,804	144,181	405,985
	40W LED	Avg. Gross Savings per Participant (kWh/yr)	N/A	108	104	107
	40W LED	Avg. Net Savings per Participant (kWh/yr)	N/A	87	83	85
Installed Summer peak kW	40W LED	Total Gross Demand Reduction (kW)	0.0	29.9	16.5	46.4
	40W LED	Realization Rate	N/A	100%	100%	100%
	40W LED	Net-To-Gross Rate	N/A	80%	80%	80%
	40W LED	Net Adjusted Demand Reduction (kW)	0.0	24.0	13.2	37.1
	40W LED	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	40W LED	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	40W LED					
Installed Winter peak kW	40W LED	Total Gross Demand Reduction (kW)	-	64.0	35.3	99.3
	40W LED	Realization Rate	-	100%	100%	100%
	40W LED	Net-To-Gross Rate	-	80%	80%	80%
	40W LED	Net Adjusted Demand Reduction (kW)	-	51.2	28.2	79.4
	40W LED	Avg. Gross Demand Reduction per Participant (kW)	-	0.02	0.02	0.02
	40W LED	Avg. Net Demand Reduction per Participant (kW)	-	0.02	0.02	0.02
	40W LED					
Installed kWh/year	60W LED	Total Participants	0	2,057	2,268	4,325
	60W LED	Total Gross Energy Savings (kWh/yr)	0	227,852	221,711	449,563
	60W LED	Realization Rate	N/A	100%	100%	100%
	60W LED	Net-To-Gross Rate	N/A	80%	80%	80%
	60W LED	Net Adjusted Savings (kWh/yr)	0	182,281	177,369	359,650
	60W LED	Avg. Gross Savings per Participant (kWh/yr)	N/A	111	98	104
	60W LED	Avg. Net Savings per Participant (kWh/yr)	N/A	89	78	83
Installed Summer peak kW	60W LED	Total Gross Demand Reduction (kW)	0.0	20.8	20.3	41.1
	60W LED	Realization Rate	N/A	100%	100%	100%
	60W LED	Net-To-Gross Rate	N/A	80%	80%	80%
	60W LED	Net Adjusted Demand Reduction (kW)	0.0	16.7	16.2	32.9
	60W LED	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	60W LED	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	60W LED					
Installed Winter peak kW	60W LED	Total Gross Demand Reduction (kW)	-	44.6	43.4	87.9
	60W LED	Realization Rate	-	100%	100%	100%
	60W LED	Net-To-Gross Rate	-	80%	80%	80%
	60W LED	Net Adjusted Demand Reduction (kW)	-	35.7	34.7	70.3
	60W LED	Avg. Gross Demand Reduction per Participant (kW)	-	0.02	0.02	0.02
	60W LED	Avg. Net Demand Reduction per Participant (kW)	-	0.02	0.02	0.02
	60W LED					
Installed kWh/year	Admin	Total Participants	0	248	435	683
	Admin	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Admin	Realization Rate	N/A	N/A	N/A	N/A
	Admin	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Admin	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Admin	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0
	Admin	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0
Installed Summer peak kW	Admin	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Admin	Realization Rate	N/A	N/A	N/A	N/A
	Admin	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Admin	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Admin	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Admin	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Admin					
Installed Winter peak kW	Admin	Total Gross Demand Reduction (kW)	-	-	-	0.0

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VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	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	487	487
Installed kWh/year	Air Conditioner Tune Up	Total Gross Energy Savings (kWh/yr)	0	0	31,904	31,904
	Air Conditioner Tune Up	Realization Rate	N/A	N/A	100%	100%
	Air Conditioner Tune Up	Net-To-Gross Rate	N/A	N/A	80%	80%
	Air Conditioner Tune Up	Net Adjusted Savings (kWh/yr)	0	0	25,523	25,523
	Air Conditioner Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	66	66
	Air Conditioner Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	52	52
Installed Summer peak kW	Air Conditioner Tune Up	Total Gross Demand Reduction (kW)	0.0	0.0	33.0	33.0
	Air Conditioner Tune Up	Realization Rate	N/A	N/A	100%	100%
	Air Conditioner Tune Up	Net-To-Gross Rate	N/A	N/A	80%	80%
	Air Conditioner Tune Up	Net Adjusted Demand Reduction (kW)	0.0	0.0	26.4	26.4
	Air Conditioner Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.07	0.07
	Air Conditioner Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.05	0.05
Installed Winter peak kW	Air Conditioner Tune Up	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Air Conditioner Tune Up	Realization Rate	-	-	N/A	N/A
	Air Conditioner Tune Up	Net-To-Gross Rate	-	-	N/A	N/A
	Air Conditioner Tune Up	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Air Conditioner Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Air Conditioner Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Air Sealing	Total Participants	0	170	297	467
Installed kWh/year	Air Sealing	Total Gross Energy Savings (kWh/yr)	0	42,914	43,189	86,103
	Air Sealing	Realization Rate	N/A	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	N/A	80%	80%	80%
	Air Sealing	Net Adjusted Savings (kWh/yr)	0	34,331	34,552	68,883
	Air Sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	252	145	184
	Air Sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	202	116	148
Installed Summer peak kW	Air Sealing	Total Gross Demand Reduction (kW)	0.0	3.2	3.4	6.5
	Air Sealing	Realization Rate	N/A	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	N/A	80%	80%	80%
	Air Sealing	Net Adjusted Demand Reduction (kW)	0.0	2.5	2.7	5.2
	Air Sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.01	0.01
	Air Sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
Installed Winter peak kW	Air Sealing	Total Gross Demand Reduction (kW)	-	47.7	43.1	90.8
	Air Sealing	Realization Rate	-	100%	100%	100%
	Air Sealing	Net-To-Gross Rate	-	80%	80%	80%
	Air Sealing	Net Adjusted Demand Reduction (kW)	-	38.2	34.5	72.6
	Air Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.1	0.2
	Air Sealing	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.1	0.2
	Attic Insulation	Total Participants	0	1,814	2,831	4,645
Installed kWh/year	Attic Insulation	Total Gross Energy Savings (kWh/yr)	0	2,059,246	3,045,049	5,104,294
	Attic Insulation	Realization Rate	N/A	100%	100%	100%
	Attic Insulation	Net-To-Gross Rate	N/A	80%	80%	80%
	Attic Insulation	Net Adjusted Savings (kWh/yr)	0	1,647,396	2,436,039	4,083,435
	Attic Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,135	1,076	1,099
	Attic Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	908	860	879
Installed Summer peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	0.0	552.1	918.6	1,470.7
	Attic Insulation	Realization Rate	N/A	100%	100%	100%



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VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Attic Insulation	Net-To-Gross Rate	N/A	80%	80%	80%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	0.0	441.7	734.9	1,176.6
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	0.3	0.3
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.3	0.3
Installed Winter peak kW	Attic Insulation	Total Gross Demand Reduction (kW)	-	1,440.9	1,969.0	3,409.9
	Attic Insulation	Realization Rate	-	100%	100%	100%
	Attic Insulation	Net-To-Gross Rate	-	80%	80%	80%
	Attic Insulation	Net Adjusted Demand Reduction (kW)	-	1,152.7	1,575.2	2,727.9
	Attic Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	0.8	0.7	0.7
	Attic Insulation	Avg. Net Demand Reduction per Participant (kW)	-	0.6	0.6	0.6
	Bathroom Aerator	Total Participants	0	572	639	1,211
Installed kWh/year	Bathroom Aerator	Total Gross Energy Savings (kWh/yr)	0	16,488	20,170	36,658
	Bathroom Aerator	Realization Rate	N/A	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	N/A	80%	80%	80%
	Bathroom Aerator	Net Adjusted Savings (kWh/yr)	0	13,191	16,136	29,326
	Bathroom Aerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	29	32	30
	Bathroom Aerator	Avg. Net Savings per Participant (kWh/yr)	N/A	23	25	24
Installed Summer peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	0.0	4.4	5.4	9.9
	Bathroom Aerator	Realization Rate	N/A	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	N/A	80%	80%	80%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	0.0	3.6	4.3	7.9
	Bathroom Aerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	Bathroom Aerator	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
Installed Winter peak kW	Bathroom Aerator	Total Gross Demand Reduction (kW)	-	4.4	5.4	9.9
	Bathroom Aerator	Realization Rate	-	100%	100%	100%
	Bathroom Aerator	Net-To-Gross Rate	-	80%	80%	80%
	Bathroom Aerator	Net Adjusted Demand Reduction (kW)	-	3.6	4.3	7.9
	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	0	146	112	258
Installed kWh/year	Duct Sealing	Total Gross Energy Savings (kWh/yr)	0	84,165	93,534	177,700
	Duct Sealing	Realization Rate	N/A	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	N/A	80%	80%	80%
	Duct Sealing	Net Adjusted Savings (kWh/yr)	0	67,332	74,827	142,160
	Duct Sealing	Avg. Gross Savings per Participant (kWh/yr)	N/A	576	835	689
	Duct Sealing	Avg. Net Savings per Participant (kWh/yr)	N/A	461	668	551
Installed Summer peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	0.0	34.5	43.0	77.5
	Duct Sealing	Realization Rate	N/A	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	N/A	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	0.0	27.6	34.4	62.0
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	0.4	0.3
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.3	0.2
Installed Winter peak kW	Duct Sealing	Total Gross Demand Reduction (kW)	-	39.5	29.9	69.4
	Duct Sealing	Realization Rate	-	100%	100%	100%
	Duct Sealing	Net-To-Gross Rate	-	80%	80%	80%
	Duct Sealing	Net Adjusted Demand Reduction (kW)	-	31.6	23.9	55.5
	Duct Sealing	Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.3	0.3
	Duct Sealing	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2	0.2
	Floor Insulation	Total Participants	0	130	184	314
Installed kWh/year	Floor Insulation	Total Gross Energy Savings (kWh/yr)	0	42,888	54,309	97,197
	Floor Insulation	Realization Rate	N/A	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	N/A	80%	80%	80%



VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Floor Insulation	Net Adjusted Savings (kWh/yr)	0	34,311	43,447	77,758
	Floor Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	330	295	310
	Floor Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	264	236	248
Installed Summer peak kW	Floor Insulation	Total Gross Demand Reduction (kW)	0.0	8.7	14.0	22.7
	Floor Insulation	Realization Rate	N/A	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	N/A	80%	80%	80%
	Floor Insulation	Net Adjusted Demand Reduction (kW)	0.0	6.9	11.2	18.1
	Floor Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.07	0.08	0.07
	Floor Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	0.05	0.06	0.06
Installed Winter peak kW	Floor Insulation	Total Gross Demand Reduction (kW)	-	38.8	46.8	85.6
	Floor Insulation	Realization Rate	-	100%	100%	100%
	Floor Insulation	Net-To-Gross Rate	-	80%	80%	80%
	Floor Insulation	Net Adjusted Demand Reduction (kW)	-	31.0	37.4	68.5
	Floor Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.3	0.3
	Floor Insulation	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2	0.2
	Heat Pump Tune Up	Total Participants	0	111	822	933
Installed kWh/year	Heat Pump Tune Up	Total Gross Energy Savings (kWh/yr)	0	20,528	137,257	157,785
	Heat Pump Tune Up	Realization Rate	N/A	100%	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	80%	80%	80%
	Heat Pump Tune Up	Net Adjusted Savings (kWh/yr)	0	16,422	109,806	126,228
	Heat Pump Tune Up	Avg. Gross Savings per Participant (kWh/yr)	N/A	185	167	169
	Heat Pump Tune Up	Avg. Net Savings per Participant (kWh/yr)	N/A	148	134	135
Installed Summer peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	0.0	7.5	52.6	60.1
	Heat Pump Tune Up	Realization Rate	N/A	100%	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	N/A	80%	80%	80%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	0.0	6.0	42.1	48.1
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.07	0.06	0.06
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	N/A	0.05	0.05	0.05
Installed Winter peak kW	Heat Pump Tune Up	Total Gross Demand Reduction (kW)	-	7.5	52.6	60.1
	Heat Pump Tune Up	Realization Rate	-	100%	100%	100%
	Heat Pump Tune Up	Net-To-Gross Rate	-	80%	80%	80%
	Heat Pump Tune Up	Net Adjusted Demand Reduction (kW)	-	6.0	42.1	48.1
	Heat Pump Tune Up	Avg. Gross Demand Reduction per Participant (kW)	-	0.07	0.06	0.06
	Heat Pump Tune Up	Avg. Net Demand Reduction per Participant (kW)	-	0.05	0.05	0.05
	Kitchen Aerator	Total Participants	0	625	386	1,011
Installed kWh/year	Kitchen Aerator	Total Gross Energy Savings (kWh/yr)	0	16,426	10,129	26,555
	Kitchen Aerator	Realization Rate	N/A	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	N/A	80%	80%	80%
	Kitchen Aerator	Net Adjusted Savings (kWh/yr)	0	13,141	8,103	21,244
	Kitchen Aerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	26	26	26
	Kitchen Aerator	Avg. Net Savings per Participant (kWh/yr)	N/A	21	21	21
Installed Summer peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	0.0	1.6	1.0	2.5
	Kitchen Aerator	Realization Rate	N/A	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	N/A	80%	80%	80%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	0.0	1.3	0.8	2.0
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00
Installed Winter peak kW	Kitchen Aerator	Total Gross Demand Reduction (kW)	-	1.6	1.0	2.5
	Kitchen Aerator	Realization Rate	-	100%	100%	100%
	Kitchen Aerator	Net-To-Gross Rate	-	80%	80%	80%
	Kitchen Aerator	Net Adjusted Demand Reduction (kW)	-	1.3	0.8	2.0
	Kitchen Aerator	Avg. Gross Demand Reduction per Participant (kW)	-	0.00	0.00	0.00



VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Kitchen Aerator	Avg. Net Demand Reduction per Participant (kW)	-	0.00	0.00	0.00
	Pipe Insulation	Total Participants	0	574	367	941
Installed kWh/year	Pipe Insulation	Total Gross Energy Savings (kWh/yr)	0	57,757	43,267	101,024
	Pipe Insulation	Realization Rate	N/A	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	N/A	80%	80%	80%
	Pipe Insulation	Net Adjusted Savings (kWh/yr)	0	46,205	34,614	80,819
	Pipe Insulation	Avg. Gross Savings per Participant (kWh/yr)	N/A	101	118	107
	Pipe Insulation	Avg. Net Savings per Participant (kWh/yr)	N/A	80	94	86
Installed Summer peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	0.0	6.6	4.9	11.5
	Pipe Insulation	Realization Rate	N/A	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	N/A	80%	80%	80%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	0.0	5.3	4.0	9.2
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
Installed Winter peak kW	Pipe Insulation	Total Gross Demand Reduction (kW)	-	6.6	4.9	11.5
	Pipe Insulation	Realization Rate	-	100%	100%	100%
	Pipe Insulation	Net-To-Gross Rate	-	80%	80%	80%
	Pipe Insulation	Net Adjusted Demand Reduction (kW)	-	5.3	4.0	9.2
	Pipe Insulation	Avg. Gross Demand Reduction per Participant (kW)	-	0.01	0.01	0.01
	Pipe Insulation	Avg. Net Demand Reduction per Participant (kW)	-	0.01	0.01	0.01
	Refrigerator Replacement	Total Participants	0	390	7	397
Installed kWh/year	Refrigerator Replacement	Total Gross Energy Savings (kWh/yr)	0	15,040	266	15,305
	Refrigerator Replacement	Realization Rate	N/A	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	N/A	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Savings (kWh/yr)	0	12,032	212	12,244
	Refrigerator Replacement	Avg. Gross Savings per Participant (kWh/yr)	N/A	39	38	39
	Refrigerator Replacement	Avg. Net Savings per Participant (kWh/yr)	N/A	31	30	31
Installed Summer peak kW	Refrigerator Replacement	Total Gross Demand Reduction (kW)	0.0	2.4	0.0	2.5
	Refrigerator Replacement	Realization Rate	N/A	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	N/A	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Demand Reduction (kW)	0.0	1.9	0.0	2.0
	Refrigerator Replacement	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	0.01	0.01
	Refrigerator Replacement	Avg. Net Demand Reduction per Participant (kW)	N/A	0.00	0.00	0.00
Installed Winter peak kW	Refrigerator Replacement	Total Gross Demand Reduction (kW)	-	0.7	0.0	0.7
	Refrigerator Replacement	Realization Rate	-	100%	100%	100%
	Refrigerator Replacement	Net-To-Gross Rate	-	80%	80%	80%
	Refrigerator Replacement	Net Adjusted Demand Reduction (kW)	-	0.6	0.0	0.6
	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
	Safety Tier I	Total Participants	0	1,321	690	2,011
Installed kWh/year	Safety Tier I	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Safety Tier I	Realization Rate	N/A	N/A	N/A	N/A
	Safety Tier I	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Safety Tier I	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Safety Tier I	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0
	Safety Tier I	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0
Installed Summer peak kW	Safety Tier I	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Safety Tier I	Realization Rate	N/A	N/A	N/A	N/A
	Safety Tier I	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Safety Tier I	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Safety Tier I	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Safety Tier I	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0





VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	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	0	58	137	195
Installed kWh/year	Safety Tier II	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Safety Tier II	Realization Rate	N/A	N/A	N/A	N/A
	Safety Tier II	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Safety Tier II	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Safety Tier II	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0	0
	Safety Tier II	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0	0
Installed Summer peak kW	Safety Tier II	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Safety Tier II	Realization Rate	N/A	N/A	N/A	N/A
	Safety Tier II	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Safety Tier II	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Safety Tier II	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Safety Tier II	Avg. Net Demand Reduction per Participant (kW)	N/A	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	0	889	954	1,843
Installed kWh/year	Showerhead	Total Gross Energy Savings (kWh/yr)	0	166,422	178,389	344,811
	Showerhead	Realization Rate	N/A	100%	100%	100%
	Showerhead	Net-To-Gross Rate	N/A	80%	80%	80%
	Showerhead	Net Adjusted Savings (kWh/yr)	0	133,137	142,711	275,849
	Showerhead	Avg. Gross Savings per Participant (kWh/yr)	N/A	187	187	187
	Showerhead	Avg. Net Savings per Participant (kWh/yr)	N/A	150	150	150
Installed Summer peak kW	Showerhead	Total Gross Demand Reduction (kW)	0.0	15.3	23.2	38.5
	Showerhead	Realization Rate	N/A	100%	100%	100%
	Showerhead	Net-To-Gross Rate	N/A	80%	80%	80%
	Showerhead	Net Adjusted Demand Reduction (kW)	0.0	12.2	18.6	30.8
	Showerhead	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02
	Showerhead	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	0.02	0.02
Installed Winter peak kW	Showerhead	Total Gross Demand Reduction (kW)	-	15.3	23.2	38.5
	Showerhead	Realization Rate	-	100%	100%	100%
	Showerhead	Net-To-Gross Rate	-	80%	80%	80%
	Showerhead	Net Adjusted Demand Reduction (kW)	-	12.2	18.6	30.8
	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	0	72	125	197
Installed kWh/year	Water Heater Tank Wrap	Total Gross Energy Savings (kWh/yr)	0	19,211	30,651	49,862
	Water Heater Tank Wrap	Realization Rate	N/A	100%	100%	100%
	Water Heater Tank Wrap	Net-To-Gross Rate	N/A	80%	80%	80%
	Water Heater Tank Wrap	Net Adjusted Savings (kWh/yr)	0	15,369	24,521	39,890
	Water Heater Tank Wrap	Avg. Gross Savings per Participant (kWh/yr)	N/A	267	245	253
	Water Heater Tank Wrap	Avg. Net Savings per Participant (kWh/yr)	N/A	213	196	202



VA - Residential Income and Age Qualifying Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
Installed Summer peak kW	Water Heater Tank Wrap	Total Gross Demand Reduction (kW)	0.0	2.2	3.5	5.7
	Water Heater Tank Wrap	Realization Rate	N/A	100%	100%	100%
	Water Heater Tank Wrap	Net-To-Gross Rate	N/A	80%	80%	80%
	Water Heater Tank Wrap	Net Adjusted Demand Reduction (kW)	0.0	1.8	2.8	4.6
	Water Heater Tank Wrap	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.03	0.03	0.03
	Water Heater Tank Wrap	Avg. Net Demand Reduction per Participant (kW)	N/A	0.02	0.02	0.02
Installed Winter peak kW	Water Heater Tank Wrap	Total Gross Demand Reduction (kW)	-	2.2	3.5	5.7
	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)	-	1.8	2.8	4.6
	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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J.17.4 2021–2023 Virginia Residential Income and Age Qualifying Home Improvement Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Residential Income and Age Qualifying Energy Efficiency	2020	VA	PUR-2020-00274	++	0.09	0.09	0.09
9	Residential Income and Age Qualifying Energy Efficiency	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Residential Income and Age Qualifying Energy Efficiency	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Residential Income and Age Qualifying Energy Efficiency	2023	VA	PUR-2023-00217	++	0.73	0.73	0.27
9	Residential Income and Age Qualifying Energy Efficiency	2024	VA	EM&V Report				



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### J.18 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (Phase X) 2022-2023

#### J.18.1 2022-2023 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (X) Annual Indicator Tables

VA - Residential Income and Age Qualifying Home Improvement 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	\$9,466	\$556,644	\$566,110
Costs (\$)		Planned	\$0	\$1,290,561	\$1,290,561
Costs (\$)		Variance	\$9,466	-\$733,917	-\$724,451
		Annual % of Planned	N/A	43%	44%
Participants <sup>1</sup>		Total (Gross)	0	4	4
		Planned	0	400	400
		Variance	0	-396	-396
		Annual % of Planned (Gross)	N/A	1%	1%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	1,661	1,661
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	1,661	1,661
		Net-To-Gross Rate Weighted by Measure	N/A	99%	99%
		Net-To-Gross Adjustment (kWh/yr)	0	-17	-17
		Net Adjusted Savings (kWh/yr)	0	1,644	1,644
		Planned Net Savings (kWh/yr)	0	31,680	31,680
		Annual % Toward Planned Net Savings	N/A	5.19%	5.19%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	415	415
		Avg. Net Savings per Participant (kWh/yr)	N/A	411	411
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.7	0.7
		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	0.7	0.7
		Net-To-Gross Rate Weighted by Measure	N/A	99%	99%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.7	0.7
		Planned Net Savings (kW)	0.0	4.0	4.0
		Annual % Toward Planned Net Reduction	N/A	17.4%	17.4%
		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)	-	0.6	0.6
		Realization Rate Weighted by Measure	-	100%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	0.6	0.6
		Net-To-Gross Rate Weighted by Measure	-	99%	99%
		Net-To-Gross Adjustment (kW)	-	0.0	0.0
		Net Adjusted Demand Reduction (kW)	-	0.6	0.6
		Planned Net Savings (kW)	0.0	7.9	7.9
		Annual % Toward Planned Net Reduction	-	8.07%	8.07%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2
		Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$9,502	\$9,502
		\$Admin. per kWh/year (Gross)	N/A	\$23	\$23
		\$Admin. per kW (Gross)	N/A	\$54,471	\$54,471
		\$EM&V per \$Total	94.9%	10.9%	10.9%
		\$Rebate per Participant (Gross)	N/A	\$2,766	\$2,766

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J.18.2 2023 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (X) Monthly Indicator Tables

VA - Residential Income and Age Qualifying Home Improvement Enhanced Program			2023	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)	\$341	\$96	\$66	\$10,692	\$2,716	\$2,967	\$2,886	\$2,885	\$3,178	\$3,842	\$3,930	\$4,013	\$37,611				
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0				
Costs (\$)		Total	\$5,045	\$1,415	\$981	\$158,237	\$40,190	\$43,915	\$42,720	\$42,698	\$47,032	\$56,862	\$58,164	\$59,385	\$556,644				
Costs (\$)		Planned	\$86,037	\$86,037	\$86,037	\$86,037	\$86,037	\$86,037	\$129,056	\$129,056	\$129,056	\$129,056	\$129,056	\$129,056	\$1,290,561				
Costs (\$)		Variance	-\$80,993	-\$84,623	-\$85,056	\$72,199	-\$45,848	-\$42,123	-\$86,337	-\$86,358	-\$82,024	-\$72,194	-\$70,892	-\$69,671	-\$733,917				
		Annual % of Planned	0.4%	0.5%	0.6%	12.8%	16.0%	19.4%	22.7%	26.0%	29.8%	34.0%	38.5%	43.1%	43%				
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	1	1	0	2	4				
		Planned	37	33	33	33	33	33	33	33	33	33	33	33	400				
		Variance	-37	-33	-33	-33	-33	-33	-33	-33	-32	-32	-33	-31	-396				
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%				
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	0	364	721	0	576	1,661				
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	100%	N/A	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)	0	0	0	0	0	0	0	0	364	721	0	576	1,661				
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99%	99%	N/A	99%	99%				
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	0	-4	-7	0	-6	-17				
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	0	360	714	0	571	1,644				
		Planned Net Savings (kWh/yr)	2,930	2,614	2,614	2,614	2,614	2,614	2,614	2,614	2,614	2,614	2,614	2,614	31,660				
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	0%	0%	0%	1.14%	3.39%	3.39%	5.19%	5.19%				
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	364	721	N/A	288	415				
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	360	714	N/A	285	411				
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	0.2	0.3	0.0	0.2	0.7				
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	100%	100%	N/A	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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.2	0.7				
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99%	99%	N/A	99%	99%				
		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	0.2	0.3	0.0	0.2	0.7				
		Planned Net Savings (kW)	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.0				
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	0%	5.72%	12.7%	12.7%	17.4%	17.4%				
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.23	0.28	N/A	0.10	0.2				
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2	0.3	N/A	0.09	0.2				
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.4	0.0	0.3	0.6				
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	-	100%	100%	N/A	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	0.4	0.0	0.3	0.6				
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	-	99%	99%	N/A	99%	99%				
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0				
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	-	0.0	0.4	0.0	0.3	0.6				
		Planned Net Savings (kW)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	7.9				
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	-	0.16%	4.60%	4.60%	8.07%	8.07%				
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	0.01	0.4	N/A	0.1	0.2				
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	-	0.01	0.4	N/A	0.1	0.2				
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$26,222	\$15,032	\$16,997	\$9,502	\$9,502				
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$72	\$28	\$31	\$23	\$23				
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$114,593	\$59,297	\$67,048	\$54,471	\$54,471				
		\$EM&V per \$Total	68.2%	64.9%	62.0%	6.0%	4.9%	5.4%	5.5%	5.4%	5.5%	7.2%	9.5%	10.9%	10.9%				
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$3,644	\$3,444	\$3,444	\$2,766	\$2,766				

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J.18.3 2022-2023 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (X) Measure Indicator Tables

VA - Residential Income and Age Qualifying Home Improvement Enhanced Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	Doors	Total Participants	0	1	1
Installed kWh/year	Doors	Total Gross Energy Savings (kWh/yr)	0	0	0
	Doors	Realization Rate	N/A	N/A	N/A
	Doors	Net-To-Gross Rate	N/A	N/A	N/A
	Doors	Net Adjusted Savings (kWh/yr)	0	0	0
	Doors	Avg. Gross Savings per Participant (kWh/yr)	N/A	0	0
	Doors	Avg. Net Savings per Participant (kWh/yr)	N/A	0	0
Installed Summer peak kW	Doors	Total Gross Demand Reduction (kW)	0.0	0.0	0.0
	Doors	Realization Rate	N/A	N/A	N/A
	Doors	Net-To-Gross Rate	N/A	N/A	N/A
	Doors	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0
	Doors	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0
	Doors	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0
Installed Winter peak kW	Doors	Total Gross Demand Reduction (kW)	-	0.0	0.0
	Doors	Realization Rate	-	N/A	N/A
	Doors	Net-To-Gross Rate	-	N/A	N/A
	Doors	Net Adjusted Demand Reduction (kW)	-	0.0	0.0
	Doors	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	-
	Doors	Avg. Net Demand Reduction per Participant (kW)	-	0.0	-
	Windows	Total Participants	0	3	3
Installed kWh/year	Windows	Total Gross Energy Savings (kWh/yr)	0	1,661	1,661
	Windows	Realization Rate	N/A	100%	100%
	Windows	Net-To-Gross Rate	N/A	99%	99%
	Windows	Net Adjusted Savings (kWh/yr)	0	1,644	1,644
	Windows	Avg. Gross Savings per Participant (kWh/yr)	N/A	554	554
	Windows	Avg. Net Savings per Participant (kWh/yr)	N/A	548	548
Installed Summer peak kW	Windows	Total Gross Demand Reduction (kW)	0.0	0.7	0.7
	Windows	Realization Rate	N/A	100%	100%
	Windows	Net-To-Gross Rate	N/A	99%	99%
	Windows	Net Adjusted Demand Reduction (kW)	0.0	0.7	0.7
	Windows	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.2	0.2
	Windows	Avg. Net Demand Reduction per Participant (kW)	N/A	0.2	0.2
Installed Winter peak kW	Windows	Total Gross Demand Reduction (kW)	-	0.6	0.6
	Windows	Realization Rate	-	100%	100%
	Windows	Net-To-Gross Rate	-	99%	99%
	Windows	Net Adjusted Demand Reduction (kW)	-	0.6	0.6
	Windows	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.2
	Windows	Avg. Net Demand Reduction per Participant (kW)	-	0.2	0.2

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2022-2023 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (X) 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
RIAQ	100	Schedule 1	411.086238	79.2	5.190482803	11234.08933	0.036592751
RIAQ	160	Schedule 1	411.086238	79.2	5.190482803	Not Available	Not Available
RIAQ	163	Schedule 1	411.086238	79.2	5.190482803	Not Available	Not Available

J.18.4 2022-2023 Virginia Residential Income and Age Qualifying Home Improvement Enhanced Program (X) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
10	Residential Income and Age Qualifying Home Improvement Enhanced	2021	VA	PUR-2021-00247	55.72	0.03	0.03	0.03
10	Residential Income and Age Qualifying Home Improvement Enhanced	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
10	Residential Income and Age Qualifying Home Improvement Enhanced	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
10	Residential Income and Age Qualifying Home Improvement Enhanced	2024	VA	EM&V Report				



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**J.19 Virginia Non-Residential Income and Age Qualifying Program (Phase X) 2022-2023**

**J.19.1 2022-2023 Virginia Non-Residential Income and Age Qualifying Program (Phase X) Annual Indicator Tables**

VA - Non-Residential Income and Age Qualifying 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	\$4,495	\$88,502	\$92,997
Costs (\$)		Planned	\$0	\$500,355	\$500,355
Costs (\$)		Variance	\$4,495	-\$411,853	-\$407,358
		Annual % of Planned	N/A	18%	19%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	0	200	200
		Variance	0	-200	-200
		Annual % of Planned (Gross)	N/A	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	0	18,216	18,216
		Annual % Toward Planned Net Savings	N/A	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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	4.0	4.0
		Annual % Toward Planned Net Reduction	N/A	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	94.9%	59.0%	59.0%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.19.2 2023 Virginia Non-Residential Income and Age Qualifying Program (Phase X) Monthly Indicator Tables

VA - Non-Residential Income and Age Qualifying 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)	\$313	\$87	\$65	\$567	\$182	\$289	\$393	\$507	\$436	\$889	\$1,129	\$1,122	\$5,980			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)	Total		\$4,627	\$1,287	\$984	\$8,397	\$2,700	\$4,276	\$5,821	\$7,608	\$6,448	\$13,184	\$16,709	\$16,600	\$88,502			
Costs (\$)	Planned		\$33,357	\$33,357	\$33,357	\$33,357	\$33,357	\$33,357	\$50,035	\$50,035	\$50,035	\$50,035	\$50,035	\$50,035	\$500,355			
Costs (\$)	Variance		-\$28,730	-\$32,070	-\$32,393	-\$24,960	-\$30,657	-\$29,081	-\$44,215	-\$42,527	-\$43,588	-\$36,871	-\$33,327	-\$33,436	-\$411,853			
	Annual % of Planned		0.9%	1.2%	1.4%	3.1%	3.6%	4.4%	5.6%	7.1%	8.4%	11.0%	14.4%	17.7%	18%			
Participants <sup>1</sup>	Total (Gross)		0	0	0	0	0	0	0	0	0	0	0	0	0			
	Planned		24	16	16	16	16	16	16	16	16	16	16	16	200			
	Variance		-24	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-200			
	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			
		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)	2,186	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	18,216			
		Annual % Toward Planned Net Savings	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			
		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)	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.0			
		Annual % Toward Planned Net Reduction	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			
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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)	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	9.9			
		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			
		\$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			
		\$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	53.2%	51.0%	48.0%	27.6%	24.3%	25.9%	30.2%	35.6%	39.6%	48.1%	54.8%	59.0%	59.0%			
		\$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			

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**J.20 Virginia Residential Income and Age Qualifying Target Report Program (Phase X) 2022-2023**

**J.20.1 2022-2023 Virginia Residential Income and Age Qualifying Target Report Program (Phase X) Annual Indicator Tables**

VA - Residential Income and Age Qualifying Target Report 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	\$3,487	\$907,894	\$911,382
Costs (\$)		Planned	\$0	\$1,503,567	\$1,503,567
Costs (\$)		Variance	\$3,487	-\$595,673	-\$592,186
		Annual % of Planned	N/A	60%	61%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	3,500	3,500	7,000
		Variance	-3,500	-3,500	-7,000
		Annual % of Planned (Gross)	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	1,225,000	1,225,000	2,450,000
		Annual % Toward Planned Net Savings	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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)	1,610.0	1,610.0	3,220.0
		Annual % Toward Planned Net Reduction	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	67.7%	1.2%	1.2%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.20.2 2023 Virginia Residential Income and Age Qualifying Target Report Program (Phase X) Monthly Indicator Tables

VA - Residential Income and Age Qualifying Target Report 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)	\$385	\$208	\$282	\$260	\$24,614	\$5,204	\$5,137	\$5,133	\$5,024	\$5,031	\$4,982	\$5,084	\$61,344			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$5,691	\$3,084	\$4,173	\$3,847	\$384,285	\$77,026	\$76,021	\$75,965	\$74,362	\$74,458	\$73,738	\$75,244	\$907,894			
Costs (\$)		Planned	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$100,238	\$1,503,567			
Costs (\$)		Variance	-\$94,547	-\$97,154	-\$96,065	-\$96,390	\$264,047	-\$23,212	-\$74,335	-\$74,392	-\$75,995	-\$75,899	-\$76,618	-\$75,113	-\$595,673			
		Annual % of Planned	0.4%	0.8%	0.9%	1.1%	25.3%	30.5%	35.5%	40.6%	45.5%	50.5%	55.4%	60.4%	60%			
Participants*		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Planned	299	291	291	291	291	291	291	291	291	291	291	291	3,500			
		Variance	-299	-291	-291	-291	-291	-291	-291	-291	-291	-291	-291	-291	-3,500			
		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			
		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)	104,650	101,850	101,850	101,850	101,850	101,850	101,850	101,850	101,850	101,850	101,850	101,850	1,225,000			
		Annual % Toward Planned Net Savings	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			
		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)	137.5	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	133.9	1,610.0			
		Annual % Toward Planned Net Reduction	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			
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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)	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	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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			
		\$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			
		\$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	29.4%	23.6%	18.4%	16.1%	0.9%	1.3%	1.2%	1.2%	1.2%	1.1%	1.1%	1.2%	1.2%			
		\$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			

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**J.21 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) 2019–2023**

**J.21.1 2019–2023 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) Annual Indicator Tables**

VA - Non-Residential Heating and Cooling Efficiency 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	\$342,194	\$723,971	\$582,157	\$1,173,390	\$2,990,710	\$5,812,422
Costs (\$)		Planned	\$1,130,793	\$1,921,705	\$1,871,906	\$1,907,579	\$1,891,332	\$8,723,316
Costs (\$)		Variance	-\$788,599	-\$1,197,735	-\$1,289,750	-\$734,189	\$1,099,378	-\$2,910,894
		Annual % of Planned	30%	38%	31%	62%	158%	67%
Participants <sup>1</sup>		Total (Gross)	0	30	44	51	26	151
		Planned	350	658	658	658	658	2,982
		Variance	-350	-628	-614	-607	-632	-2,831
		Annual % of Planned (Gross)	0%	5%	7%	8%	4%	5%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	2,352,639	527,840	10,356,854	16,291,782	29,529,116
		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	2,352,639	527,840	10,356,854	16,291,782	29,529,116
		Net-To-Gross Rate Weighted by Measure	N/A	70%	70%	70%	70%	70%
		Net-To-Gross Adjustment (kWh/yr)	0	-705,792	-158,352	-3,107,056	-4,887,535	-8,858,735
		Net Adjusted Savings (kWh/yr)	0	1,646,848	369,488	7,249,798	11,404,247	20,670,381
		Planned Net Savings (kWh/yr)	4,351,404	8,180,639	8,180,639	8,180,639	8,180,639	37,073,962
		Annual % Toward Planned Net Savings	0%	20.1%	4.52%	88.6%	139.4%	55.8%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	78,421	11,996	203,076	626,607	195,557
		Avg. Net Savings per Participant (kWh/yr)	N/A	54,895	8,397	142,153	438,625	136,890
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	407.9	58.8	2,809.2	2,230.2	5,506.1
		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	407.9	58.8	2,809.2	2,230.2	5,506.1
		Net-To-Gross Rate Weighted by Measure	N/A	70%	70%	70%	70%	70%
		Net-To-Gross Adjustment (kW)	0.0	-122.4	-17.6	-842.8	-669.1	-1,651.8
		Net Adjusted Demand Reduction (kW)	0.0	285.5	41.1	1,966.4	1,561.2	3,854.3
		Planned Net Savings (kW)	621.0	1,167.4	1,167.4	1,167.4	1,167.4	5,290.5
		Annual % Toward Planned Net Reduction	0%	24.5%	3.52%	168.4%	133.7%	72.9%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	13.6	1.3	55.1	85.8	36.5
		Avg. Net Demand Reduction per Participant (kW)	N/A	9.5	0.9	38.6	60.0	25.5
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	29.0	168.1	21.5	218.6
		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)	-	-	29.0	168.1	21.5	218.6
		Net-To-Gross Rate Weighted by Measure	-	-	70%	70%	70%	70%
		Net-To-Gross Adjustment (kW)	-	-	-8.7	-50.4	-6.4	-65.6
		Net Adjusted Demand Reduction (kW)	-	-	20.3	117.7	15.0	153.0
		Planned Net Savings (kW)	0.0	0.0	1,549.9	1,549.9	1,549.9	4,649.7
		Annual % Toward Planned Net Reduction	-	-	1.31%	7.59%	0.97%	3.29%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.7	3.3	0.8	1.8
		Avg. Net Demand Reduction per Participant (kW)	-	-	0.5	2.3	0.6	1.3
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$1,670	\$1,046	\$1,011	\$2,175	\$2,175
		\$Admin. per kWh/year (Gross)	N/A	\$0.02	\$0.03	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$123	\$166	\$39	\$60	\$60
		\$EM&V per \$Total	11.1%	12.2%	14.7%	12.3%	7.8%	7.8%
		\$Rebate per Participant (Gross)	N/A	\$6,662	\$3,518	\$7,374	\$21,278	\$21,278

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J.21.2 2023 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) Monthly Indicator Tables

VA - Non-Residential Heating and Cooling 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	Total	Total
O&M (\$)		Direct Rebate															
O&M (\$)		Direct Implementation															
O&M (\$)		Direct EM&V															
O&M (\$)		Indirect Other (Administrative)	\$2,545	\$2,639	\$3,202	\$3,360	\$4,207	\$159,594	\$4,069	\$2,702	\$4,891	\$6,339	\$3,025	\$5,501	\$202,074		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Costs (\$)		Total	\$37,662	\$39,058	\$47,394	\$49,731	\$62,261	\$2,362,002	\$60,216	\$39,991	\$72,391	\$93,822	\$44,766	\$81,416	\$2,990,710		
Costs (\$)		Planned	\$126,089	\$126,089	\$126,089	\$126,089	\$126,089	\$126,089	\$189,133	\$189,133	\$189,133	\$189,133	\$189,133	\$189,133	\$1,891,332		
Costs (\$)		Variance	-\$88,427	-\$87,031	-\$78,694	-\$76,358	-\$63,827	\$2,235,913	-\$128,917	-\$149,142	-\$116,742	-\$95,311	-\$144,367	-\$107,717	\$1,099,378		
		Annual % of Planned	2.0%	4.1%	6.6%	9.2%	12.5%	137.4%	140.6%	142.7%	146.5%	151.5%	153.8%	158.1%	158%		
Participants <sup>1</sup>		Total (Gross)	0	1	4	3	5	3	1	2	2	3	1	1	26		
		Planned	64	54	54	54	54	54	54	54	54	54	54	54	658		
		Variance	-64	-53	-50	-51	-49	-51	-53	-52	-52	-51	-53	-53	-632		
		Annual % of Planned (Gross)	0%	0%	1%	1%	2%	2%	3%	3%	3%	4%	4%	4%	4%		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	2,419	114,261	85,268	192,660	14,625,065	155,826	3,689	607,453	474,764	5,343	25,033	16,291,782		
		Realization Rate Weighted by Measure	N/A	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)	0	2,419	114,261	85,268	192,660	14,625,065	155,826	3,689	607,453	474,764	5,343	25,033	16,291,782		
		Net-To-Gross Rate Weighted by Measure	N/A	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%		
		Net-To-Gross Adjustment (kWh/yr)	0	-726	-34,278	-25,580	-57,798	-4,387,520	-46,748	-1,107	-182,236	-142,429	-1,603	-7,510	-4,887,535		
		Net Adjusted Savings (kWh/yr)	0	1,693	79,983	59,688	134,862	10,237,546	109,078	2,583	425,217	332,335	3,740	17,523	11,404,247		
		Planned Net Savings (kWh/yr)	795,685	671,359	671,359	671,359	671,359	671,359	671,359	671,359	671,359	671,359	671,359	671,359	8,180,639		
		Annual % Toward Planned Net Savings	0%	0.02%	1.00%	1.73%	3.38%	128.5%	129.9%	129.9%	135.1%	139.1%	139.2%	139.4%	139.4%		
		Avg. Gross Savings per Participant (kWh/yr)	N/A	2,419	28,565	28,423	38,532	4,875,022	155,826	1,845	303,727	158,255	5,343	25,033	626,607		
		Avg. Net Savings per Participant (kWh/yr)	N/A	1,693	19,996	19,896	26,972	3,412,515	109,078	1,291	212,609	110,778	3,740	17,523	436,625		
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	2,116.1	0.0	1.1	49.3	60.2	2.2	1.3	2,230.2		
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	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)	0.0	0.0	0.0	0.0	0.0	2,116.1	0.0	1.1	49.3	60.2	2.2	1.3	2,230.2		
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	70%	N/A	70%	70%	70%	70%	70%	70%		
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	-634.8	0.0	-0.3	-14.8	-18.1	-0.7	-0.4	-669.1		
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	1,481.3	0.0	0.8	34.5	42.1	1.5	0.9	1,561.2		
		Planned Net Savings (kW)	113.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	1,167.4		
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	126.9%	126.9%	127.0%	129.9%	133.5%	133.7%	133.7%	133.7%		
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	705.4	0.0	0.55	24.7	20.1	2.2	1.3	85.8		
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	493.8	0.0	0.4	17.3	14.0	1.6	0.9	60.0		
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.6	9.9	0.0	1.1	0.0	21.5		
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	100%	N/A	100%	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	9.9	0.0	0.6	9.9	0.0	1.1	0.0	21.5		
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	70%	N/A	70%	70%	N/A	70%	N/A	70%		
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	-3.0	0.0	-0.2	-3.0	0.0	-0.3	0.0	-6.4		
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.4	6.9	0.0	0.8	0.0	15.0		
		Planned Net Savings (kW)	150.8	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	127.2	1,549.9		
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0.45%	0.45%	0.47%	0.92%	0.92%	0.97%	0.97%	0.97%		
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	3.3	0.0	0.3	5.0	0.0	1.1	0.0	0.8		
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	2.3	0.0	0.2	3.5	0.0	0.8	0.0	0.6		
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$1,032	\$1,044	\$1,037	\$1,039	\$1,032	\$2,141	\$2,155	\$2,144	\$2,148	\$2,147	\$2,153	\$2,176	\$2,175		
		\$Admin. per kWh/year (Gross)	\$0.01	\$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)	\$39	\$40	\$41	\$42	\$43	\$56	\$57	\$57	\$58	\$58	\$59	\$60	\$60		
		\$EM&V per \$Total	12.4%	12.4%	12.4%	12.6%	12.9%	7.4%	7.5%	7.6%	7.6%	7.7%	7.7%	7.8%	7.8%		
		\$Rebate per Participant (Gross)	\$7,374	\$7,317	\$7,154	\$7,037	\$6,882	\$22,056	\$22,017	\$21,718	\$21,639	\$21,535	\$21,399	\$21,278	\$21,278		

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J.21.3 2019–2023 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) Measure Indicator Tables

VA - Non-Residential Heating and Cooling Efficiency Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Chiller Upgrade	Total Participants	0	5	1	3	1	10
Installed kWh/year	Chiller Upgrade	Total Gross Energy Savings (kWh/yr)	0	452,363	26,961	638,627	2,506,861	3,624,813
	Chiller Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%
	Chiller Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Chiller Upgrade	Net Adjusted Savings (kWh/yr)	0	316,654	18,873	447,039	1,754,803	2,537,369
	Chiller Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	90,473	26,961	212,876	2,506,861	362,481
	Chiller Upgrade	Avg. Net Savings per Participant (kWh/yr)	N/A	63,331	18,873	149,013	1,754,803	253,737
Installed Summer peak kW	Chiller Upgrade	Total Gross Demand Reduction (kW)	0.0	275.2	15.2	2,365.6	1,997.2	4,653.2
	Chiller Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%
	Chiller Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Chiller Upgrade	Net Adjusted Demand Reduction (kW)	0.0	192.6	10.6	1,655.9	1,398.1	3,257.2
	Chiller Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	55.0	15.2	788.5	1,997.2	465.3
	Chiller Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	38.5	10.6	552.0	1,398.1	325.7
Installed Winter peak kW	Chiller Upgrade	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Chiller Upgrade	Realization Rate	-	-	N/A	N/A	N/A	N/A
	Chiller Upgrade	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	Chiller Upgrade	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Chiller Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Chiller Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Economizers	Total Participants	0	19	6	19	5	49
Installed kWh/year	Economizers	Total Gross Energy Savings (kWh/yr)	0	49,060	13,967	288,653	76,558	428,237
	Economizers	Realization Rate	N/A	100%	100%	100%	100%	100%
	Economizers	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Economizers	Net Adjusted Savings (kWh/yr)	0	34,342	9,777	202,057	53,590	299,766
	Economizers	Avg. Gross Savings per Participant (kWh/yr)	N/A	2,582	2,328	15,192	15,312	8,740
	Economizers	Avg. Net Savings per Participant (kWh/yr)	N/A	1,807	1,629	10,635	10,718	6,118
Installed Summer peak kW	Economizers	Total Gross Demand Reduction (kW)	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
	Economizers	Net-To-Gross Rate	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
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
	Economizers	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
Installed Winter peak kW	Economizers	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Economizers	Realization Rate	-	-	N/A	N/A	N/A	N/A
	Economizers	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	Economizers	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Economizers	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Economizers	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Heat Pump Upgrade	Total Participants	0	7	14	6	4	31
Installed kWh/year	Heat Pump Upgrade	Total Gross Energy Savings (kWh/yr)	0	463,739	60,826	13,472	496,496	1,034,534
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Heat Pump Upgrade	Net Adjusted Savings (kWh/yr)	0	324,618	42,578	9,431	347,547	724,174
	Heat Pump Upgrade	Avg. Gross Savings per Participant (kWh/yr)	N/A	66,248	4,345	2,245	124,124	33,372
	Heat Pump Upgrade	Avg. Net Savings per Participant (kWh/yr)	N/A	46,374	3,041	1,572	86,887	23,360
Installed Summer peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	0.0	57.2	10.5	3.7	57.0	128.4
	Heat Pump Upgrade	Realization Rate	N/A	100%	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	0.0	40.0	7.3	2.6	39.9	89.9
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	N/A	8.2	0.7	0.6	14.3	4.1
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	N/A	5.7	0.5	0.4	10.0	2.9
Installed Winter peak kW	Heat Pump Upgrade	Total Gross Demand Reduction (kW)	-	-	8.9	3.4	14.1	26.5

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VA - Non-Residential Heating and Cooling Efficiency Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Heat Pump Upgrade	Realization Rate	-	-	100%	100%	100%	100%
	Heat Pump Upgrade	Net-To-Gross Rate	-	-	70%	70%	70%	70%
	Heat Pump Upgrade	Net Adjusted Demand Reduction (kW)	-	-	6.3	2.4	9.9	18.5
	Heat Pump Upgrade	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.6	0.6	3.5	1.1
	Heat Pump Upgrade	Avg. Net Demand Reduction per Participant (kW)	-	-	0.4	0.4	2.5	0.8
	Unitary AC	Total Participants	0	16	17	22	6	61
Installed kWh/year	Unitary AC	Total Gross Energy Savings (kWh/yr)	0	222,993	28,757	1,478,248	371,694	2,101,693
	Unitary AC	Realization Rate	N/A	100%	100%	100%	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Unitary AC	Net Adjusted Savings (kWh/yr)	0	156,095	20,130	1,034,774	260,186	1,471,185
	Unitary AC	Avg. Gross Savings per Participant (kWh/yr)	N/A	13,937	1,692	67,193	61,949	34,454
	Unitary AC	Avg. Net Savings per Participant (kWh/yr)	N/A	9,756	1,184	47,035	43,364	24,118
Installed Summer peak kW	Unitary AC	Total Gross Demand Reduction (kW)	0.0	58.6	19.0	323.8	170.8	572.2
	Unitary AC	Realization Rate	N/A	100%	100%	100%	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Unitary AC	Net Adjusted Demand Reduction (kW)	0.0	41.0	13.3	226.6	119.5	400.5
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	N/A	3.7	1.1	14.7	28.5	9.4
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	N/A	2.6	0.8	10.3	19.9	6.6
Installed Winter peak kW	Unitary AC	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Unitary AC	Realization Rate	-	-	N/A	N/A	N/A	N/A
	Unitary AC	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	Unitary AC	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Variable Frequency Drives (VFD)	Total Participants	0	12	17	41	21	91
Installed kWh/year	Variable Frequency Drives (VFD)	Total Gross Energy Savings (kWh/yr)	0	1,164,484	397,329	7,937,854	12,840,173	22,339,840
	Variable Frequency Drives (VFD)	Realization Rate	N/A	100%	100%	100%	100%	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Variable Frequency Drives (VFD)	Net Adjusted Savings (kWh/yr)	0	815,138	278,131	5,556,498	8,988,121	15,637,888
	Variable Frequency Drives (VFD)	Avg. Gross Savings per Participant (kWh/yr)	N/A	97,040	23,372	193,606	611,437	245,493
	Variable Frequency Drives (VFD)	Avg. Net Savings per Participant (kWh/yr)	N/A	67,928	16,361	135,524	428,006	171,845
Installed Summer peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	0.0	16.9	14.1	116.1	5.2	152.3
	Variable Frequency Drives (VFD)	Realization Rate	N/A	100%	100%	100%	100%	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	N/A	70%	70%	70%	70%	70%
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	0.0	11.8	9.9	81.3	3.6	106.6
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.4	0.8	2.8	0.2	1.7
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	N/A	1.0	0.6	2.0	0.2	1.2
Installed Winter peak kW	Variable Frequency Drives (VFD)	Total Gross Demand Reduction (kW)	-	-	20.0	164.7	7.4	192.1
	Variable Frequency Drives (VFD)	Realization Rate	-	-	100%	100%	100%	100%
	Variable Frequency Drives (VFD)	Net-To-Gross Rate	-	-	70%	70%	70%	70%
	Variable Frequency Drives (VFD)	Net Adjusted Demand Reduction (kW)	-	-	14.0	115.3	5.2	134.5
	Variable Frequency Drives (VFD)	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.2	4.0	0.4	2.4
	Variable Frequency Drives (VFD)	Avg. Net Demand Reduction per Participant (kW)	-	-	0.8	2.8	0.2	1.7



J.21.4 2019–2023 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) 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
CHV3	108	Schedule 5C	6046.879551	12432.58277	0.486373561	54288.73985	0.111383679
CHV3	110	Schedule GS-1	15274.99498	12432.58277	1.228626044	25717.7424	0.59394774
CHV3	114	Schedule GS-2T	17517.09749	12432.58277	1.408966891	541550.383	0.032346201
CHV3	117	Schedule GS-3	374151.1395	12432.58277	30.09440166	7105430.618	0.052657067
CHV3	120	Schedule GS-4	3680654.097	12432.58277	296.0490323	79519603.45	0.046286122
CHV3	129	Schedule 7	5144.098809	12432.58277	0.413759466	31216.0804	0.164790029
CHV3	130	Schedule 10	131565.7496	12432.58277	10.58233451	3584793.852	0.036701064
CHV3	169	Schedule 5C	6046.879551	12432.58277	0.486373561	Not Available	Not Available
CHV3	182	Schedule 7	5144.098809	12432.58277	0.413759466	Not Available	Not Available
CHV3	183	Schedule 10	131565.7496	12432.58277	10.58233451	Not Available	Not Available
CHV3	227	Schedule GS-2	52977.83929	12432.58277	4.261209459	329494.9816	0.160784966
CHV3	261	Schedule 10	131565.7496	12432.58277	10.58233451	Not Available	Not Available
CHV3	262	Schedule 10	131565.7496	12432.58277	10.58233451	Not Available	Not Available
CHV3	All Codes	All Rates	136889.9399	12432.58277	11.01057942	Not Available	Not Available

J.21.5 2019–2023 Virginia Non-Residential Heating and Cooling Efficiency Program (Phase VII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
7	Non-Residential Heating and Cooling Efficiency	2018	VA	PUR-2018-00168	1.86	2.71	1.29	0.68
7	Non-Residential Heating and Cooling Efficiency	2019	VA	PUR-2019-00201	N/A	N/A	N/A	N/A
7	Non-Residential Heating and Cooling Efficiency	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
7	Non-Residential Heating and Cooling Efficiency	2021	VA	PUR-2021-00247	8.56	19.63	9.10	1.23
7	Non-Residential Heating and Cooling Efficiency	2022	VA	PUR-2022-00210	6.27	13.31	6.10	1.13
7	Non-Residential Heating and Cooling Efficiency	2023	VA	PUR-2023-00217	18.92	39.23	18.27	1.14
7	Non-Residential Heating and Cooling Efficiency	2024	VA	EM&V Report				





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**J.22 Virginia Non-Residential Lighting Systems & Controls Program (Phase VII) 2019–2023**

**J.22.1 2019–2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase VII) Annual Indicator Tables**

VA - Non-Residential Lighting Systems & Controls 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	\$592,373	\$3,989,872	\$3,537,467	\$2,749,190	\$1,413,563	\$12,282,466
Costs (\$)		Planned	\$1,633,867	\$2,905,369	\$2,192,482	\$2,221,698	\$49,143	\$9,002,558
Costs (\$)		Variance	-\$1,041,495	\$1,084,503	\$1,344,986	\$527,493	\$1,364,421	\$3,279,907
		Annual % of Planned	36%	137%	161%	124%	2876%	136%
Participants <sup>1</sup>		Total (Gross)	0	406	388	193	69	1,056
		Planned	333	625	344	344	344	1,990
		Variance	-333	-219	44	-151	-275	-934
		Annual % of Planned (Gross)	0%	65%	113%	56%	20%	53%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	29,189,250	22,546,913	16,583,111	12,744,620	81,063,893
		Realization Rate Weighted by Measure	N/A	124%	124%	124%	105%	121%
		Realization Rate Adjustment (kWh/yr)	0	7,005,420	5,411,259	3,979,947	637,231	17,033,857
		Realization Rate Adjusted Savings (kWh/yr)	0	36,194,669	27,958,172	20,563,057	13,381,851	98,097,750
		Net-To-Gross Rate Weighted by Measure	N/A	45%	45%	45%	45%	45%
		Net-To-Gross Adjustment (kWh/yr)	0	-19,907,068	-15,376,995	-11,309,682	-7,360,018	-53,953,762
		Net Adjusted Savings (kWh/yr)	0	16,287,601	12,581,177	9,253,376	6,021,833	44,143,987
		Planned Net Savings (kWh/yr)	6,994,405	13,127,636	6,659,477	6,659,477	6,659,477	40,100,471
		Annual % Toward Planned Net Savings	0%	124.1%	188.9%	139.0%	90.4%	110.1%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	71,895	58,111	85,923	184,705	76,765
		Avg. Net Savings per Participant (kWh/yr)	N/A	40,117	32,426	47,945	87,273	41,803
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	4,019.8	3,194.9	2,581.9	2,240.5	12,037.2
		Realization Rate Weighted by Measure	N/A	102%	102%	102%	102%	102%
		Realization Rate Adjustment (kW)	0.0	80.4	63.9	51.6	44.8	240.7
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	4,100.2	3,258.8	2,633.6	2,285.3	12,277.9
		Net-To-Gross Rate Weighted by Measure	N/A	45%	45%	45%	45%	45%
		Net-To-Gross Adjustment (kW)	0.0	-2,210.9	-1,757.2	-1,420.1	-1,232.3	-6,620.4
		Net Adjusted Demand Reduction (kW)	0.0	1,845.1	1,466.5	1,185.1	1,028.4	5,525.1
		Planned Net Savings (kW)	1,945.3	3,651.1	1,436.4	1,436.4	1,436.4	9,905.4
		Annual % Toward Planned Net Reduction	0%	50.5%	102.1%	82.5%	71.6%	55.8%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	9.9	8.2	13.4	32.5	11.4
		Avg. Net Demand Reduction per Participant (kW)	N/A	4.5	3.8	6.1	14.9	5.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	2,487.7	1,772.8	1,276.4	5,536.9
		Realization Rate Weighted by Measure	-	-	99%	99%	99%	99%
		Realization Rate Adjustment (kW)	-	-	-24.9	-17.7	-12.8	-55.4
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	2,462.8	1,755.0	1,263.6	5,481.5
		Net-To-Gross Rate Weighted by Measure	-	-	45%	45%	45%	45%
		Net-To-Gross Adjustment (kW)	-	-	-1,368.2	-975.0	-702.0	-3,045.3
		Net Adjusted Demand Reduction (kW)	-	-	1,108.3	789.8	568.6	2,466.7
		Planned Net Savings (kW)	0.0	0.0	1,326.7	1,326.7	1,326.7	3,980.2
		Annual % Toward Planned Net Reduction	-	-	83.5%	59.5%	42.9%	62.0%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	6.4	9.2	18.5	8.5
		Avg. Net Demand Reduction per Participant (kW)	-	-	2.9	4.1	8.2	3.8
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$550	\$490	\$510	\$567	\$567
		\$Admin. per kWh/year (Gross)	N/A	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$56	\$54	\$51	\$50	\$50
		\$EM&V per \$Total	8.4%	3.2%	3.3%	4.4%	5.1%	5.1%
		\$Rebate per Participant (Gross)	N/A	\$6,717	\$6,201	\$6,499	\$6,957	\$6,957

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J.22.2 2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase VII) Monthly Indicator Tables

VA - Non-Residential Lighting Systems & Controls 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)		\$51,647	\$36,347	\$5,597	\$252	\$337	\$405	\$636	\$289	\$0	\$0	\$0	\$0	\$95,511	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$764,378	\$537,937	\$82,841	\$3,726	\$4,991	\$5,998	\$9,416	\$4,276	\$0	\$0	\$0	\$0	\$1,413,563	
Costs (\$)	Planned		\$3,276	\$3,276	\$3,276	\$3,276	\$3,276	\$3,276	\$4,914	\$4,914	\$4,914	\$4,914	\$4,914	\$4,914	\$49,143	
Costs (\$)	Variance		\$761,102	\$534,660	\$79,565	\$450	\$1,714	\$2,722	\$4,502	-\$638	-\$4,914	-\$4,914	-\$4,914	-\$4,914	\$1,364,421	
	Annual % of Planned		1555.4%	2650.1%	2818.6%	2826.2%	2836.4%	2848.6%	2867.8%	2876.5%	2876.5%	2876.5%	2876.5%	2876.5%	2876%	
Participants <sup>4</sup>	Total (Gross)		42	27	0	0	0	0	0	0	0	0	0	0	69	
	Planned		36	28	28	28	28	28	28	28	28	28	28	28	344	
	Variance		6	-1	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-275	
	Annual % of Planned (Gross)		12%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	7,489,570	5,255,049	0	0	0	0	0	0	0	0	0	0	12,744,620	
		Realization Rate Weighted by Measure	105%	105%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	105%	
		Realization Rate Adjustment (kWh/yr)	374,479	262,752	0	0	0	0	0	0	0	0	0	0	637,231	
		Realization Rate Adjusted Savings (kWh/yr)	7,864,049	5,517,802	0	0	0	0	0	0	0	0	0	0	13,381,851	
		Net-To-Gross Rate Weighted by Measure	45%	45%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45%	
		Net-To-Gross Adjustment (kWh/yr)	-4,325,227	-3,034,791	0	0	0	0	0	0	0	0	0	0	-7,360,018	
		Net Adjusted Savings (kWh/yr)	3,538,822	2,483,011	0	0	0	0	0	0	0	0	0	0	6,021,833	
		Planned Net Savings (kWh/yr)	696,922	542,050	542,050	542,050	542,050	542,050	542,050	542,050	542,050	542,050	542,050	542,050	6,659,477	
		Annual % Toward Planned Net Savings	53.1%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	90.4%	
		Avg. Gross Savings per Participant (kWh/yr)	178,323	194,631	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184,705	
		Avg. Net Savings per Participant (kWh/yr)	84,258	91,963	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87,273	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	1,257.4	983.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,240.5	
		Realization Rate Weighted by Measure	102%	102%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	102%	
		Realization Rate Adjustment (kW)	25.1	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.8	
		Realization Rate Adjusted Gross Demand Reduction (kW)	1,282.6	1,002.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,285.3	
		Net-To-Gross Rate Weighted by Measure	45%	45%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45%	
		Net-To-Gross Adjustment (kW)	-691.6	-540.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1,232.3	
		Net Adjusted Demand Reduction (kW)	577.2	451.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,028.4	
		Planned Net Savings (kW)	150.3	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	116.9	1,436.4	
		Annual % Toward Planned Net Reduction	40.2%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	71.6%	
		Avg. Gross Demand Reduction per Participant (kW)	29.9	36.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.5	
		Avg. Net Demand Reduction per Participant (kW)	13.7	16.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.9	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	751.7	524.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,276.4	
		Realization Rate Weighted by Measure	99%	99%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99%	
		Realization Rate Adjustment (kW)	-7.5	-5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-12.8	
		Realization Rate Adjusted Gross Demand Reduction (kW)	744.2	519.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,263.6	
		Net-To-Gross Rate Weighted by Measure	45%	45%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45%	
		Net-To-Gross Adjustment (kW)	-413.4	-288.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-702.0	
		Net Adjusted Demand Reduction (kW)	330.8	230.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	561.6	
		Planned Net Savings (kW)	138.9	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	1,326.7	
		Annual % Toward Planned Net Reduction	25.2%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	
		Avg. Gross Demand Reduction per Participant (kW)	17.9	19.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.5	
		Avg. Net Demand Reduction per Participant (kW)	8.0	8.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.2	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$540	\$560	\$566	\$566	\$566	\$567	\$567	\$567	\$567	\$567	\$567	\$567	\$567	
		\$Admin. per kWh/year (Gross)	\$0.01	\$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)	\$50	\$49	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	
		\$EM&V per \$Total	4.5%	4.8%	4.9%	4.9%	4.9%	5.0%	5.0%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	
		\$Rebate per Participant (Gross)	\$6,790	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	\$6,957	

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J.22.3 2019–2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase VII) Measure Indicator Tables

VA - Non-Residential Lighting Systems & Controls Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
Installed kWh/year	LED Lamps	Total Participants	0	406	387	193	69	1,055
	LED Lamps	Total Gross Energy Savings (kWh/yr)	0	28,703,462	22,202,144	16,168,637	12,587,551	79,661,794
	LED Lamps	Realization Rate	N/A	124%	124%	124%	105%	121%
	LED Lamps	Net-To-Gross Rate	N/A	45%	45%	45%	45%	45%
	LED Lamps	Net Adjusted Savings (kWh/yr)	0	16,016,532	12,388,797	9,022,100	5,947,618	43,375,046
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	70,698	57,370	83,775	182,428	75,509
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	39,450	32,012	46,747	86,197	41,114
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	0.0	3,962.0	3,158.2	2,536.4	2,225.0	11,881.6
	LED Lamps	Realization Rate	N/A	102%	102%	102%	102%	102%
	LED Lamps	Net-To-Gross Rate	N/A	45%	45%	45%	45%	45%
	LED Lamps	Net Adjusted Demand Reduction (kW)	0.0	1,818.6	1,449.6	1,164.2	1,021.3	5,453.7
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	9.8	8.2	13.1	32.2	11.3
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	4.5	3.7	6.0	14.8	5.2
	LED Lamps							
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	-	2,466.7	1,755.9	1,269.5	5,492.1
	LED Lamps	Realization Rate	-	-	99%	99%	99%	99%
	LED Lamps	Net-To-Gross Rate	-	-	45%	45%	45%	45%
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	-	1,132.2	805.9	582.7	2,520.9
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	6.4	9.1	18.4	8.5
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	2.9	4.2	8.4	3.9
	LED Lamps							
Occupancy Sensors	Occupancy Sensors	Total Participants	0	30	25	33	8	96
	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	0	485,788	300,036	402,337	157,068	1,345,228
	Occupancy Sensors	Realization Rate	N/A	124%	124%	124%	105%	122%
	Occupancy Sensors	Net-To-Gross Rate	N/A	45%	45%	45%	45%	45%
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	0	271,070	167,420	224,504	74,215	737,208
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	16,193	12,001	12,192	19,634	14,013
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	N/A	9,036	6,697	6,803	9,277	7,679
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	0.0	57.8	25.5	42.8	15.5	141.7
	Occupancy Sensors	Realization Rate	N/A	102%	102%	102%	102%	102%
	Occupancy Sensors	Net-To-Gross Rate	N/A	45%	45%	45%	45%	45%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	0.0	26.5	11.7	19.7	7.1	65.0
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.9	1.0	1.3	1.9	1.5
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	0.9	0.5	0.6	0.9	0.7
	Occupancy Sensors							
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	18.1	15.8	6.9	40.8
	Occupancy Sensors	Realization Rate	-	-	99%	99%	99%	99%
	Occupancy Sensors	Net-To-Gross Rate	-	-	45%	45%	45%	45%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	8.3	7.3	3.2	18.7
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.7	0.5	0.9	0.6
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	0.3	0.2	0.4	0.3
	Occupancy Sensors							
T8/T5 Lamps	T8/T5 Lamps	Total Participants	0	0	2	2	0	4
	T8/T5 Lamps	Total Gross Energy Savings (kWh/yr)	0	0	44,733	12,137	0	56,870
	T8/T5 Lamps	Realization Rate	N/A	N/A	124%	124%	N/A	124%
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	45%	45%	N/A	45%
	T8/T5 Lamps	Net Adjusted Savings (kWh/yr)	0	0	24,961	6,772	0	31,734
	T8/T5 Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	22,367	6,068	N/A	14,218
	T8/T5 Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	12,481	3,386	N/A	7,933
Installed Summer peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	0.0	0.0	11.2	2.6	0.0	13.9
	T8/T5 Lamps	Realization Rate	N/A	N/A	102%	102%	N/A	102%
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	45%	45%	N/A	45%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	0.0	0.0	5.1	1.2	0.0	6.4
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	5.6	1.3	N/A	3.5
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.6	0.6	N/A	1.6
	T8/T5 Lamps							
Installed Winter peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	-	-	2.9	1.1	0.0	4.0

VA - Non-Residential Lighting Systems & Controls Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	T8/T5 Lamps	Realization Rate	-	-	99%	99%	N/A	99%
	T8/T5 Lamps	Net-To-Gross Rate	-	-	45%	45%	N/A	45%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	-	-	1.3	0.5	0.0	1.8
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.4	0.5	N/A	1.0
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	0.7	0.3	N/A	0.5



J.22.4 2019–2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase VII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
7	Non-Residential Lighting Systems & Controls	2018	VA	PUR-2018-00168	3.06	1.71	1.37	0.58
7	Non-Residential Lighting Systems & Controls	2019	VA	PUR-2019-00201	N/A	N/A	N/A	N/A
7	Non-Residential Lighting Systems & Controls	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
7	Non-Residential Lighting Systems & Controls	2021	VA	PUR-2021-00247	9.48	3.24	2.66	0.48
7	Non-Residential Lighting Systems & Controls	2022	VA	PUR-2022-00210	29.77	11.09	9.12	0.56
7	Non-Residential Lighting Systems & Controls	2023	VA	PUR-2023-00217				
7	Non-Residential Lighting Systems & Controls	2024	VA	EM&V Report				



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**J.23 Virginia Non-Residential Lighting Systems and Controls Program (Phase X) 2022-2023**

**J.23.1 2022-2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase X) Annual Indicator Tables**

VA - Non-Residential Lighting Systems and Controls 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	\$3,222	\$3,313,015	\$3,316,237
Costs (\$)		Planned	\$0	\$9,719,102	\$9,719,102
Costs (\$)		Variance	\$3,222	-\$6,406,087	-\$6,402,865
		Annual % of Planned	N/A	34%	34%
Participants <sup>1</sup>		Total (Gross)	0	259	259
		Planned	0	912	912
		Variance	0	-653	-653
		Annual % of Planned (Gross)	N/A	28%	28%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	20,830,777	20,830,777
		Realization Rate Weighted by Measure	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	20,830,777	20,830,777
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-2,083,078	-2,083,078
		Net Adjusted Savings (kWh/yr)	0	18,747,700	18,747,700
		Planned Net Savings (kWh/yr)	0	63,136,757	63,136,757
		Annual % Toward Planned Net Savings	N/A	29.7%	29.7%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	80,428	80,428
		Avg. Net Savings per Participant (kWh/yr)	N/A	72,385	72,385
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	3,477.9	3,477.9
		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	3,477.9	3,477.9
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-347.8	-347.8
		Net Adjusted Demand Reduction (kW)	0.0	3,130.1	3,130.1
		Planned Net Savings (kW)	0.0	13,855.1	13,855.1
		Annual % Toward Planned Net Reduction	N/A	22.6%	22.6%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	13.4	13.4
		Avg. Net Demand Reduction per Participant (kW)	N/A	12.1	12.1
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	2,153.5	2,153.5
		Realization Rate Weighted by Measure	-	100%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	2,153.5	2,153.5
		Net-To-Gross Rate Weighted by Measure	-	90%	90%
		Net-To-Gross Adjustment (kW)	-	-215.3	-215.3
		Net Adjusted Demand Reduction (kW)	-	1,938.1	1,938.1
		Planned Net Savings (kW)	0.0	12,377.7	12,377.7
		Annual % Toward Planned Net Reduction	-	15.7%	15.7%
		Avg. Gross Demand Reduction per Participant (kW)	-	8.3	8.3
		Avg. Net Demand Reduction per Participant (kW)	-	7.5	7.5
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$865	\$865
		\$Admin. per kWh/year (Gross)	N/A	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$64	\$64
		\$EM&V per \$Total	94.6%	14.2%	14.2%
		\$Rebate per Participant (Gross)	N/A	\$6,727	\$6,727

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J.23.2 2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase X) Monthly Indicator Tables

VA - Non-Residential Lighting Systems and Controls 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)	\$328	\$73	\$8,275	\$36,882	\$5,371	\$5,810	\$5,717	\$46,186	\$26,195	\$31,455	\$32,409	\$25,151	\$223,852		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Costs (\$)		Total	\$4,857	\$1,075	\$122,465	\$545,856	\$79,487	\$85,989	\$84,612	\$683,559	\$387,693	\$465,631	\$479,656	\$372,235	\$3,313,015		
Costs (\$)		Planned	\$646,966	\$646,966	\$646,966	\$646,966	\$646,966	\$648,427	\$972,641	\$972,641	\$972,641	\$972,641	\$972,641	\$972,641	\$9,719,102		
Costs (\$)		Variance	-\$642,109	-\$645,891	-\$524,501	-\$101,110	-\$567,479	-\$562,438	-\$888,028	-\$289,028	-\$584,948	-\$507,110	-\$492,985	-\$600,405	-\$6,406,087		
		Annual % of Planned	0.0%	0.1%	1.3%	6.9%	7.6%	8.6%	9.5%	16.5%	20.5%	25.3%	30.3%	34.1%	34%		
Participants*		Total (Gross)	0	0	0	0	0	0	0	43	43	72	58	43	259		
		Planned	76	76	76	76	76	76	76	76	76	76	76	76	912		
		Variance	-76	-76	-76	-76	-76	-76	-76	-33	-33	-4	-18	-33	-653		
		Annual % of Planned (Gross)	0%	0%	0%	0%	0%	0%	0%	5%	9%	17%	24%	28%	28%		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0	0	0	4,178,716	2,200,292	4,923,114	5,374,245	4,154,411	20,830,777		
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	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)	0	0	0	0	0	0	0	4,178,716	2,200,292	4,923,114	5,374,245	4,154,411	20,830,777		
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90%	90%	90%	90%	90%	90%		
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	0	0	0	-417,872	-220,029	-492,311	-537,425	-415,441	-2,083,078		
		Net Adjusted Savings (kWh/yr)	0	0	0	0	0	0	0	3,760,844	1,980,263	4,430,802	4,836,821	3,738,969	18,747,700		
		Planned Net Savings (kWh/yr)	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	5,261,396	63,136,757		
		Annual % Toward Planned Net Savings	0%	0%	0%	0%	0%	0%	0%	5.96%	9.09%	16.1%	23.8%	29.7%	29.7%		
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	97,179	51,170	68,377	92,659	96,614	80,428		
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	87,461	46,053	61,539	83,393	85,953	72,385		
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	767.6	314.7	896.5	774.7	724.3	3,477.9		
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	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)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	767.6	314.7	896.5	774.7	724.3	3,477.9		
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	N/A	90%	90%	90%	90%	90%	90%		
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-76.8	-31.5	-89.7	-77.5	-72.4	-347.8		
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	690.8	283.3	806.9	697.3	651.8	3,130.1		
		Planned Net Savings (kW)	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	1,154.6	13,855.1		
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0%	4.99%	7.03%	12.9%	17.9%	22.6%	22.6%		
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.9	7.3	12.5	13.4	16.8	13.4		
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.1	6.6	11.2	12.0	15.2	12.1		
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	-	-	-	404.6	225.7	463.5	603.2	456.5	2,153.5		
		Realization Rate Weighted by Measure	-	-	-	-	-	-	-	100%	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)	-	-	-	-	-	-	-	404.6	225.7	463.5	603.2	456.5	2,153.5		
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	-	-	-	90%	90%	90%	90%	90%	90%		
		Net-To-Gross Adjustment (kW)	-	-	-	-	-	-	-	-40.5	-22.6	-46.3	-60.3	-45.6	-215.3		
		Net Adjusted Demand Reduction (kW)	-	-	-	-	-	-	-	364.1	203.1	417.1	542.9	410.9	1,938.1		
		Planned Net Savings (kW)	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	1,031.5	12,377.7		
		Annual % Toward Planned Net Reduction	-	-	-	-	-	-	-	2.94%	4.58%	7.95%	12.3%	15.7%	15.7%		
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	9.4	5.2	6.4	10.4	10.6	8.3		
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-	-	8.5	4.7	5.8	9.4	9.6	7.5		
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$2,530	\$1,569	\$1,053	\$921	\$855	\$865		
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$0.03	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01		
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$142	\$125	\$84	\$72	\$64	\$64		
		\$EM&V per \$Total	45.3%	42.2%	89.0%	51.0%	45.9%	45.1%	42.1%	24.9%	20.6%	17.4%	15.2%	14.2%	14.2%		
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$12,627	\$9,486	\$7,301	\$6,952	\$6,727	\$6,727		

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J.23.3 2022-2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase X) Measure Indicator Tables

VA - Non-Residential Lighting Systems and Controls Program			2022	2023	2022-2023
Category	Measure	Indicator	Total	Total	Total
	LED LAMPS	Total Participants	0	259	259
Installed kWh/year	LED LAMPS	Total Gross Energy Savings (kWh/yr)	0	20,569,572	20,569,572
	LED LAMPS	Realization Rate	N/A	100%	100%
	LED LAMPS	Net-To-Gross Rate	N/A	90%	90%
	LED LAMPS	Net Adjusted Savings (kWh/yr)	0	18,512,615	18,512,615
	LED LAMPS	Avg. Gross Savings per Participant (kWh/yr)	N/A	79,419	79,419
	LED LAMPS	Avg. Net Savings per Participant (kWh/yr)	N/A	71,477	71,477
Installed Summer peak kW	LED LAMPS	Total Gross Demand Reduction (kW)	0.0	3,454.8	3,454.8
	LED LAMPS	Realization Rate	N/A	100%	100%
	LED LAMPS	Net-To-Gross Rate	N/A	90%	90%
	LED LAMPS	Net Adjusted Demand Reduction (kW)	0.0	3,109.3	3,109.3
	LED LAMPS	Avg. Gross Demand Reduction per Participant (kW)	N/A	13.3	13.3
	LED LAMPS	Avg. Net Demand Reduction per Participant (kW)	N/A	12.0	12.0
Installed Winter peak kW	LED LAMPS	Total Gross Demand Reduction (kW)	-	2,135.4	2,135.4
	LED LAMPS	Realization Rate	-	100%	100%
	LED LAMPS	Net-To-Gross Rate	-	90%	90%
	LED LAMPS	Net Adjusted Demand Reduction (kW)	-	1,921.8	1,921.8
	LED LAMPS	Avg. Gross Demand Reduction per Participant (kW)	-	8.2	8.2
	LED LAMPS	Avg. Net Demand Reduction per Participant (kW)	-	7.4	7.4
Installed kWh/year	OCCUPANCY SENSORS	Total Participants	0	34	34
	OCCUPANCY SENSORS	Total Gross Energy Savings (kWh/yr)	0	261,205	261,205
	OCCUPANCY SENSORS	Realization Rate	N/A	100%	100%
	OCCUPANCY SENSORS	Net-To-Gross Rate	N/A	90%	90%
	OCCUPANCY SENSORS	Net Adjusted Savings (kWh/yr)	0	235,085	235,085
	OCCUPANCY SENSORS	Avg. Gross Savings per Participant (kWh/yr)	N/A	7,683	7,683
Installed Summer peak kW	OCCUPANCY SENSORS	Total Gross Demand Reduction (kW)	0.0	23.1	23.1
	OCCUPANCY SENSORS	Realization Rate	N/A	100%	100%
	OCCUPANCY SENSORS	Net-To-Gross Rate	N/A	90%	90%
	OCCUPANCY SENSORS	Net Adjusted Demand Reduction (kW)	0.0	20.8	20.8
	OCCUPANCY SENSORS	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.7	0.7
	OCCUPANCY SENSORS	Avg. Net Demand Reduction per Participant (kW)	N/A	0.6	0.6
Installed Winter peak kW	OCCUPANCY SENSORS	Total Gross Demand Reduction (kW)	-	18.1	18.1
	OCCUPANCY SENSORS	Realization Rate	-	100%	100%
	OCCUPANCY SENSORS	Net-To-Gross Rate	-	90%	90%
	OCCUPANCY SENSORS	Net Adjusted Demand Reduction (kW)	-	16.3	16.3
	OCCUPANCY SENSORS	Avg. Gross Demand Reduction per Participant (kW)	-	0.5	0.5
	OCCUPANCY SENSORS	Avg. Net Demand Reduction per Participant (kW)	-	0.5	0.5

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**J.23.4 2022-2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase X) 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
CLT4	108	Schedule 5C	32050.481	69228.9	0.462963892	54288.73985	0.590370693
CLT4	109	Schedule 5P	21316.7227	69228.9	0.30791653	227958.3333	0.093511487
CLT4	110	Schedule GS-1	25199.47278	69228.9	0.364002213	25717.7424	0.979847779
CLT4	114	Schedule GS-2T	182843.7218	69228.9	2.641147292	541550.383	0.337630122
CLT4	117	Schedule GS-3	81582.10167	69228.9	1.178439553	7105430.618	0.011481655
CLT4	130	Schedule 10	66989.3296	69228.9	0.967649776	3584793.852	0.01868708
CLT4	131	Schedule 29	15244.92	69228.9	0.220210346	6912.408759	2.705442492
CLT4	169	Schedule 5C	32050.481	69228.9	0.462963892	Not Available	Not Available
CLT4	170	Schedule 5P	21316.7227	69228.9	0.30791653	Not Available	Not Available
CLT4	183	Schedule 10	66989.3296	69228.9	0.967649776	Not Available	Not Available
CLT4	193	Schedule 27	50098.64047	69228.9	0.723666568	2047.719024	24.46558336
CLT4	194	Schedule 28	39970.79827	69228.9	0.577371564	3066.246057	13.03574388
CLT4	227	Schedule GS-2	79756.62577	69228.9	1.152071256	329494.9816	0.242057179
CLT4	261	Schedule 10	66989.3296	69228.9	0.967649776	Not Available	Not Available
CLT4	262	Schedule 10	66989.3296	69228.9	0.967649776	Not Available	Not Available
CLT4	All Codes	All Rates	72384.94101	69228.9	1.04558849	Not Available	Not Available

**J.23.5 2022-2023 Virginia Non-Residential Lighting Systems & Controls Program (Phase X) Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
10	Non-Residential Lighting Systems and Controls	2021	VA	PUR-2021-00247	2.28	2.78	1.14	0.53
10	Non-Residential Lighting Systems and Controls	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
10	Non-Residential Lighting Systems and Controls	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
10	Non-Residential Lighting Systems and Controls	2024	VA	EM&V Report	9.67	14.50	6.40	0.66

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J.24 Virginia Non-Residential Office Program (Phase VII) 2019–2023

J.24.1 2019–2023 Virginia Non-Residential Office Program (Phase VII) Annual Indicator Tables

VA - Non-Residential Office 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	\$405,507	\$408,837	\$804,161	\$477,980	\$1,137,077	\$3,233,563
Costs (\$)		Planned	\$832,726	\$1,140,867	\$1,141,410	\$1,165,496	\$1,196,068	\$5,476,566
Costs (\$)		Variance	-\$427,218	-\$732,030	-\$337,249	-\$687,516	-\$58,991	-\$2,243,003
		Annual % of Planned	49%	36%	70%	41%	95%	59%
Participants <sup>1</sup>		Total (Gross)	0	6	59	16	86	167
		Planned	42	79	79	79	79	358
		Variance	-42	-73	-20	-63	7	-191
		Annual % of Planned (Gross)	0%	8%	75%	20%	109%	47%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	131,417	1,203,577	4,217,101	7,081,212	12,633,307
		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	131,417	1,203,577	4,217,101	7,081,212	12,633,307
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-13,142	-120,358	-421,710	-708,121	-1,263,331
		Net Adjusted Savings (kWh/yr)	0	118,275	1,083,219	3,795,391	6,373,091	11,369,976
		Planned Net Savings (kWh/yr)	2,460,940	4,628,911	4,628,911	4,628,911	4,628,911	20,976,586
		Annual % Toward Planned Net Savings	0%	2.56%	23.4%	82.0%	137.7%	54.2%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	21,903	20,400	263,568	82,340	75,649
		Avg. Net Savings per Participant (kWh/yr)	N/A	19,713	18,360	237,212	74,106	68,084
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	68.6	19.5	88.1
		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	68.6	19.5	88.1
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	-6.9	-1.9	-8.8
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	61.7	17.5	79.2
		Planned Net Savings (kW)	248.3	467.0	467.0	467.0	467.0	2,116.5
		Annual % Toward Planned Net Reduction	0%	0%	0%	13.2%	3.76%	3.74%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	4.3	0.2	0.5
		Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	3.9	0.2	0.5
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	0.0	41.1	14.3	55.4
		Realization Rate Weighted by Measure	-	-	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	-	-	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	0.0	41.1	14.3	55.4
		Net-To-Gross Rate Weighted by Measure	-	-	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-	0.0	-4.1	-1.4	-5.5
		Net Adjusted Demand Reduction (kW)	-	-	0.0	37.0	12.8	49.8
		Planned Net Savings (kW)	0.0	0.0	2,457.5	2,457.5	2,457.5	7,372.5
		Annual % Toward Planned Net Reduction	-	-	0%	1.50%	0.52%	0.68%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	4.6	0.2	0.4
		Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	4.1	0.2	0.3
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$5,829	\$1,118	\$1,144	\$1,015	\$1,015
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0.05	\$0.02	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	N/A	N/A	\$1,351	\$1,925	\$1,925
		\$EM&V per \$Total	25.8%	30.9%	24.3%	24.2%	18.4%	18.4%
		\$Rebate per Participant (Gross)	N/A	\$2,944	\$3,921	\$4,611	\$5,034	\$5,034

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J.24.2 2023 Virginia Non-Residential Office Program (Phase VII) Monthly Indicator Tables

VA - Non-Residential Office 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)	\$6,529	\$4,079	\$6,791	\$5,637	\$6,876	\$2,872	\$5,030	\$2,357	\$6,120	\$12,391	\$10,189	\$7,958	\$76,829	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$96,635	\$60,365	\$100,506	\$83,427	\$101,761	\$42,501	\$74,445	\$34,888	\$90,582	\$183,392	\$150,799	\$117,778	\$1,137,077	
Costs (\$)		Planned	\$79,738	\$79,738	\$79,738	\$79,738	\$79,738	\$79,738	\$119,607	\$119,607	\$119,607	\$119,607	\$119,607	\$119,607	\$1,196,068	
Costs (\$)		Variance	\$16,898	-\$19,373	\$20,768	\$3,689	\$22,023	-\$37,237	-\$45,161	-\$84,719	-\$29,025	\$63,786	\$31,192	-\$1,831	-\$58,991	
		Annual % of Planned	8.1%	13.1%	21.5%	28.5%	37.0%	40.6%	46.8%	49.7%	57.3%	72.6%	85.2%	95.1%	95%	
Participants <sup>1</sup>		Total (Gross)	5	6	7	7	8	2	6	1	8	18	15	3	86	
		Planned	13	6	6	6	6	6	6	6	6	6	6	6	79	
		Variance	-8	0	1	1	2	-4	0	-5	2	12	9	-3	7	
		Annual % of Planned (Gross)	6%	14%	23%	32%	42%	44%	52%	53%	63%	86%	105%	109%	109%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	810,201	334,630	387,725	663,457	476,620	56,402	502,878	43,814	419,747	1,241,306	2,002,082	142,351	7,081,212	
		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)	810,201	334,630	387,725	663,457	476,620	56,402	502,878	43,814	419,747	1,241,306	2,002,082	142,351	7,081,212	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kWh/yr)	-81,020	-33,463	-38,772	-66,346	-47,662	-5,640	-50,288	-4,381	-41,975	-124,131	-200,208	-14,235	-708,121	
		Net Adjusted Savings (kWh/yr)	729,181	301,167	348,952	597,111	428,958	50,762	452,590	39,432	377,772	1,117,176	1,801,874	128,116	6,373,091	
		Planned Net Savings (kWh/yr)	761,720	351,563	351,563	351,563	351,563	351,563	351,563	351,563	351,563	351,563	351,563	351,563	4,628,911	
		Annual % Toward Planned Net Savings	15.8%	22.3%	29.8%	42.7%	52.0%	53.1%	62.8%	63.7%	71.9%	96.0%	134.9%	137.7%	137.7%	
		Avg. Gross Savings per Participant (kWh/yr)	162,040	55,772	55,389	94,780	59,577	28,201	83,813	43,814	52,468	68,981	133,472	47,450	82,340	
		Avg. Net Savings per Participant (kWh/yr)	145,836	50,194	49,850	85,302	53,620	25,381	75,432	39,432	47,222	62,065	120,125	42,705	74,106	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	19.5	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	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)	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	0.0	0.0	19.5	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	90%	N/A	N/A	N/A	N/A	N/A	90%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	-1.9	0.0	0.0	0.0	0.0	0.0	-1.9	
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.0	0.0	0.0	0.0	17.5	
		Planned Net Savings (kW)	76.9	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	467.0	
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	3.76%	3.76%	3.76%	3.76%	3.76%	3.76%	3.76%	
		Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.2	
		Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.2	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	14.3	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	100%	N/A	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)	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	14.3	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	N/A	N/A	90%	N/A	N/A	N/A	N/A	N/A	90%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	0.0	0.0	-1.4	0.0	0.0	0.0	0.0	0.0	-1.4	
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	12.8	
		Planned Net Savings (kW)	404.4	186.6	186.6	186.6	186.6	186.6	186.6	186.6	186.6	186.6	186.6	186.6	2,457.5	
		Annual % Toward Planned Net Reduction	0%	0%	0%	0%	0%	0%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	
		Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	2.4	N/A	0.0	0.0	0.0	0.0	0.2	
		Avg. Net Demand Reduction per Participant (kW)	0.0	0.0	0.0	0.0	0.0	0.0	2.1	N/A	0.0	0.0	0.0	0.0	0.2	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$1,153	\$1,122	\$1,112	\$1,091	\$1,075	\$1,081	\$1,069	\$1,080	\$1,061	\$1,016	\$985	\$1,015	\$1,015	
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.01	\$0.01	\$0.02	\$0.01	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	
		\$Admin. per kW (Gross)	\$1,446	\$1,508	\$1,605	\$1,687	\$1,787	\$1,829	\$1,482	\$1,508	\$1,578	\$1,719	\$1,834	\$1,925	\$1,925	
		\$EM&V per \$Total	23.8%	23.0%	22.7%	22.1%	21.7%	21.7%	21.4%	21.4%	20.8%	19.7%	19.0%	18.4%	18.4%	
		\$Rebate per Participant (Gross)	\$4,914	\$4,905	\$4,898	\$4,908	\$4,911	\$4,905	\$4,893	\$4,903	\$4,908	\$4,901	\$5,037	\$5,034	\$5,034	



J.24.3 2019–2023 Virginia Non-Residential Office Program (Phase VII) Measure Indicator Tables

VA - Non-Residential Office Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Discharge Air Temperature Reset (electric heat)	Total Participants	0	0	0	3	5	8
Installed kWh/year	Discharge Air Temperature Reset (electric heat)	Total Gross Energy Savings (kWh/yr)	0	0	0	243,117	378,035	621,152
	Discharge Air Temperature Reset (electric heat)	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Savings (kWh/yr)	0	0	0	218,806	340,231	559,037
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	81,039	75,607	77,644
	Discharge Air Temperature Reset (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	72,935	68,046	69,880
Installed Summer peak kW	Discharge Air Temperature Reset (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
Installed Winter peak kW	Discharge Air Temperature Reset (electric heat)	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Realization Rate	-	-	-	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	-	-	-	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	0.0	-
	Discharge Air Temperature Reset (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	0.0	-
	Dual Enthalpy Economizer Control	Total Participants	0	0	0	2	1	3
Installed kWh/year	Dual Enthalpy Economizer Control	Total Gross Energy Savings (kWh/yr)	0	0	0	5,668	915	6,583
	Dual Enthalpy Economizer Control	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%
	Dual Enthalpy Economizer Control	Net Adjusted Savings (kWh/yr)	0	0	0	5,101	824	5,925
	Dual Enthalpy Economizer Control	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	2,834	915	2,194
	Dual Enthalpy Economizer Control	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	2,551	824	1,975
Installed Summer peak kW	Dual Enthalpy Economizer Control	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
Installed Winter peak kW	Dual Enthalpy Economizer Control	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Realization Rate	-	-	-	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	-	-	-	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	0.0	-
	Dual Enthalpy Economizer Control	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	0.0	-
	Night Temperature Setback	Total Participants	0	6	59	4	47	116
Installed kWh/year	Night Temperature Setback	Total Gross Energy Savings (kWh/yr)	0	94,198	869,641	199,095	667,813	1,830,747
	Night Temperature Setback	Realization Rate	N/A	100%	100%	100%	100%	100%
	Night Temperature Setback	Net-To-Gross Rate	N/A	90%	90%	90%	90%	90%
	Night Temperature Setback	Net Adjusted Savings (kWh/yr)	0	84,779	782,677	179,185	601,031	1,647,673
	Night Temperature Setback	Avg. Gross Savings per Participant (kWh/yr)	N/A	15,700	14,740	49,774	14,209	15,782
	Night Temperature Setback	Avg. Net Savings per Participant (kWh/yr)	N/A	14,130	13,266	44,796	12,768	14,204
Installed Summer peak kW	Night Temperature Setback	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Night Temperature Setback	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Night Temperature Setback	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Night Temperature Setback	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Night Temperature Setback	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
	Night Temperature Setback	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
Installed Winter peak kW	Night Temperature Setback	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0

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VA - Non-Residential Office Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Night Temperature Setback	Realization Rate	-	-	N/A	N/A	N/A	N/A
	Night Temperature Setback	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	Night Temperature Setback	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	Night Temperature Setback	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Night Temperature Setback	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	Reduce VAV Box Minimum Position (electric heat)	Total Participants	0	0	0	2	0	2
Installed kWh/year	Reduce VAV Box Minimum Position (electric heat)	Total Gross Energy Savings (kWh/yr)	0	0	0	23,230	0	23,230
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	N/A	N/A	N/A	100%	N/A	100%
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	90%	N/A	90%
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Savings (kWh/yr)	0	0	0	20,907	0	20,907
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	11,615	N/A	11,615
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	10,453	N/A	10,453
Installed Summer peak kW	Reduce VAV Box Minimum Position (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	N/A	0.0
Installed Winter peak kW	Reduce VAV Box Minimum Position (electric heat)	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	-	-	-	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	-	-	-	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	N/A	-
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	N/A	-
	Reduce VAV Box Minimum Position (gas heat)	Total Participants	0	0	0	0	1	1
Installed kWh/year	Reduce VAV Box Minimum Position (gas heat)	Total Gross Energy Savings (kWh/yr)	0	0	0	0	8,712	8,712
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	N/A	N/A	N/A	N/A	100%	100%
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	90%	90%
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Savings (kWh/yr)	0	0	0	0	7,841	7,841
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	8,712	8,712
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	7,841	7,841
Installed Summer peak kW	Reduce VAV Box Minimum Position (gas heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	0.0	0.0
Installed Winter peak kW	Reduce VAV Box Minimum Position (gas heat)	Total Gross Demand Reduction (kW)	-	-	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	-	-	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	-	-	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	0.0	-
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	0.0	-
	Schedule HVAC (electric heat)	Total Participants	0	0	2	11	57	70
Installed kWh/year	Schedule HVAC (electric heat)	Total Gross Energy Savings (kWh/yr)	0	0	512	1,703,430	2,883,337	4,587,279
	Schedule HVAC (electric heat)	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Schedule HVAC (electric heat)	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Schedule HVAC (electric heat)	Net Adjusted Savings (kWh/yr)	0	0	461	1,533,087	2,595,003	4,128,551
	Schedule HVAC (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	256	154,857	50,585	65,533
	Schedule HVAC (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	230	139,372	45,526	58,979
Installed Summer peak kW	Schedule HVAC (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A



VA - Non-Residential Office Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Schedule HVAC (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Schedule HVAC (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0	0.0	0.0
Installed Winter peak kW	Schedule HVAC (electric heat)	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule HVAC (electric heat)	Realization Rate	-	-	-	-	-	N/A
	Schedule HVAC (electric heat)	Net-To-Gross Rate	-	-	-	-	-	N/A
	Schedule HVAC (electric heat)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule HVAC (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Schedule HVAC (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Schedule HVAC (gas heat)	Total Participants	0	6	57	8	44	115
Installed kWh/year	Schedule HVAC (gas heat)	Total Gross Energy Savings (kWh/yr)	0	37,218	333,424	468,872	2,809,966	3,649,480
	Schedule HVAC (gas heat)	Realization Rate	N/A	100%	100%	100%	100%	100%
	Schedule HVAC (gas heat)	Net-To-Gross Rate	N/A	90%	90%	90%	90%	90%
	Schedule HVAC (gas heat)	Net Adjusted Savings (kWh/yr)	0	33,497	300,082	421,985	2,528,969	3,284,532
	Schedule HVAC (gas heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	6,203	5,850	58,609	63,863	31,735
	Schedule HVAC (gas heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	5,583	5,265	52,748	57,477	28,561
Installed Summer peak kW	Schedule HVAC (gas heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Schedule HVAC (gas heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Schedule HVAC (gas heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0	0.0	0.0
Installed Winter peak kW	Schedule HVAC (gas heat)	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule HVAC (gas heat)	Realization Rate	-	-	-	-	-	N/A
	Schedule HVAC (gas heat)	Net-To-Gross Rate	-	-	-	-	-	N/A
	Schedule HVAC (gas heat)	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule HVAC (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Schedule HVAC (gas heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Schedule Lighting	Total Participants	0	0	0	3	26	29
Installed kWh/year	Schedule Lighting	Total Gross Energy Savings (kWh/yr)	0	0	0	1,351,310	264,939	1,616,249
	Schedule Lighting	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Schedule Lighting	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%
	Schedule Lighting	Net Adjusted Savings (kWh/yr)	0	0	0	1,216,179	238,445	1,454,624
	Schedule Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	450,437	10,190	55,733
	Schedule Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	405,393	9,171	50,159
Installed Summer peak kW	Schedule Lighting	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule Lighting	Realization Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Schedule Lighting	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A	N/A
	Schedule Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0	0.0
	Schedule Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
	Schedule Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0
Installed Winter peak kW	Schedule Lighting	Total Gross Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule Lighting	Realization Rate	-	-	-	-	-	N/A
	Schedule Lighting	Net-To-Gross Rate	-	-	-	-	-	N/A
	Schedule Lighting	Net Adjusted Demand Reduction (kW)	-	-	-	-	-	0.0
	Schedule Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Schedule Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-	-
	Static Pressure Reset	Total Participants	0	0	0	3	1	4
Installed kWh/year	Static Pressure Reset	Total Gross Energy Savings (kWh/yr)	0	0	0	222,378	67,496	289,874
	Static Pressure Reset	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%

VA - Non-Residential Office Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Static Pressure Reset	Net Adjusted Savings (kWh/yr)	0	0	0	200,141	60,746	260,887
	Static Pressure Reset	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	74,126	67,496	72,469
	Static Pressure Reset	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	66,714	60,746	65,222
Installed Summer peak kW	Static Pressure Reset	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	68.6	19.5	88.1
	Static Pressure Reset	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%
	Static Pressure Reset	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	61.7	17.5	79.2
	Static Pressure Reset	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	22.9	19.5	22.0
	Static Pressure Reset	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	20.6	17.5	19.8
Installed Winter peak kW	Static Pressure Reset	Total Gross Demand Reduction (kW)	-	-	-	41.1	14.3	55.4
	Static Pressure Reset	Realization Rate	-	-	-	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	-	-	-	90%	90%	90%
	Static Pressure Reset	Net Adjusted Demand Reduction (kW)	-	-	-	37.0	12.8	49.8
	Static Pressure Reset	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	13.7	14.3	13.8
	Static Pressure Reset	Avg. Net Demand Reduction per Participant (kW)	-	-	-	12.3	12.8	12.5



**J.24.4 2019–2023 Virginia Non-Residential Office Program (Phase VII) Comparison of Savings to Usage by Rate Schedule**

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
CTSO	110	Schedule GS-1	19762.30086	58593.81633	0.33727622	25717.7424	0.768430625
CTSO	114	Schedule GS-2T	38687.85565	58593.81633	0.660271989	541550.383	0.07143907
CTSO	227	Schedule GS-2	148620.2025	58593.81633	2.536448585	329494.9816	0.451054525
CTSO	All Codes	All Rates	68083.69098	58593.81633	1.161960344	Not Available	Not Available

**J.24.5 2019–2023 Virginia Non-Residential Office Program (Phase VII) Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
7	Non-Residential Office	2018	VA	PUR-2018-00168	4.62	1.08	1.14	0.41
7	Non-Residential Office	2019	VA	PUR-2019-00201	N/A	N/A	N/A	N/A
7	Non-Residential Office	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
7	Non-Residential Office	2021	VA	PUR-2021-00247	2.60	0.20	0.21	0.12
7	Non-Residential Office	2022	VA	PUR-2022-00210	2.96	0.32	0.34	0.18
7	Non-Residential Office	2023	VA	PUR-2023-00217	10.55	1.46	1.56	0.3
7	Non-Residential Office	2024	VA	EM&V Report				



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**J.25 Virginia Non-Residential Small Manufacturing Program (Phase VII) 2019–2023**

**J.25.1 2019-2023 Virginia Non-Residential Small Manufacturing Program (Phase VII) Annual Indicator Tables**

NC - Non-Residential Small Manufacturing 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	\$18,987	\$17,245	\$16,181	\$76,431	\$128,844
Costs (\$)		Planned	\$0	\$77,923	\$76,879	\$79,423	\$78,798	\$313,023
Costs (\$)		Variance	\$0	-\$58,937	-\$59,634	-\$63,242	-\$2,366	-\$184,179
		Annual % of Planned	N/A	24%	22%	20%	97%	41%
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	4	4
		Planned	0	4	4	4	4	16
		Variance	0	-4	-4	-4	0	-12
		Annual % of Planned (Gross)	N/A	0%	0%	0%	100%	25%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0	419,942	419,942
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0	419,942	419,942
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0	-41,994	-41,994
		Net Adjusted Savings (kWh/yr)	0	0	0	0	377,948	377,948
		Planned Net Savings (kWh/yr)	0	182,761	182,761	182,761	182,761	731,043
		Annual % Toward Planned Net Savings	N/A	0%	0%	0%	206.8%	51.7%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	104,985	104,985
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	94,487	94,487
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	46.4	46.4
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A	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	0.0	46.4	46.4
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	-4.6	-4.6
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	41.8	41.8
		Planned Net Savings (kW)	0.0	38.5	38.5	38.5	38.5	153.9
		Annual % Toward Planned Net Reduction	N/A	0%	0%	0%	108.6%	27.1%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	11.6	11.6
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	10.4	10.4
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	-	46.4	46.4
		Realization Rate Weighted by Measure	-	-	-	-	100%	100%
		Realization Rate Adjustment (kW)	-	-	-	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	-	46.4	46.4
		Net-To-Gross Rate Weighted by Measure	-	-	-	-	90%	90%
		Net-To-Gross Adjustment (kW)	-	-	-	-	-4.6	-4.6
		Net Adjusted Demand Reduction (kW)	-	-	-	-	41.8	41.8
		Planned Net Savings (kW)	0.0	0.0	38.5	38.5	38.5	115.4
		Annual % Toward Planned Net Reduction	-	-	-	-	108.6%	36.2%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	11.6	11.6
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	10.4	10.4
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A	\$1,909	\$1,909
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A	\$0.02	\$0.02
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A	\$165	\$165
		\$EM&V per \$Total	N/A	24.4%	20.9%	24.0%	14.5%	14.5%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A	\$9,124	\$9,124

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J.25.2 2023 Virginia Non-Residential Small Manufacturing Program (Phase VII) Monthly Indicator Tables

VA - Non-Residential Small Manufacturing 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)		\$6,053	\$1,729	\$7,761	\$5,741	\$9,005	\$3,977	\$7,618	\$3,418	\$5,715	\$8,988	\$6,458	\$14,491	\$78,936	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$89,582	\$25,592	\$114,884	\$84,974	\$133,280	\$58,885	\$112,749	\$50,591	\$84,586	\$103,124	\$95,577	\$214,466	\$1,168,250	
Costs (\$)	Planned		\$85,511	\$85,511	\$85,511	\$85,511	\$85,511	\$85,511	\$128,267	\$128,267	\$128,267	\$128,267	\$128,267	\$128,267	\$1,282,670	
Costs (\$)	Variance		\$4,071	-\$59,920	\$29,352	-\$538	\$47,769	-\$26,647	-\$15,518	-\$77,676	-\$43,681	-\$25,143	-\$32,689	\$86,199	-\$114,420	
	Annual % of Planned		7.0%	9.0%	17.9%	24.6%	34.9%	39.5%	48.3%	52.3%	58.9%	66.9%	74.4%	91.1%	91%	
Participants <sup>1</sup>	Total (Gross)		1	1	3	2	8	0	3	5	3	3	6	7	42	
	Planned		11	5	5	5	5	5	5	5	5	5	5	5	66	
	Variance		-10	-4	-2	-3	3	-5	-2	0	-2	-2	1	2	-24	
	Annual % of Planned (Gross)		2%	3%	8%	11%	23%	23%	27%	35%	39%	44%	53%	64%	64%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	1,040,882	6,555	1,286,695	572,146	1,161,722	0	963,399	236,164	414,377	397,291	486,026	1,127,607	7,692,863	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	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)	1,040,882	6,555	1,286,695	572,146	1,161,722	0	963,399	236,164	414,377	397,291	486,026	1,127,607	7,692,863	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	N/A	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kWh/yr)	-104,088	-855	-128,669	-57,215	-116,172	0	-96,340	-23,616	-41,438	-39,729	-48,603	-112,761	-769,286	
		Net Adjusted Savings (kWh/yr)	936,794	5,899	1,158,025	514,931	1,045,550	0	867,059	212,548	372,939	357,562	437,423	1,014,847	6,923,577	
		Planned Net Savings (kWh/yr)	502,592	228,451	228,451	228,451	228,451	228,451	228,451	228,451	228,451	228,451	228,451	228,451	3,015,551	
		Annual % Toward Planned Net Savings	31.1%	31.3%	69.7%	86.7%	121.4%	121.4%	150.2%	157.2%	169.6%	181.4%	195.9%	228.6%	229.6%	
		Avg. Gross Savings per Participant (kWh/yr)	1,040,882	6,555	428,898	286,073	145,215	N/A	321,133	47,233	138,126	132,430	81,004	161,087	183,163	
		Avg. Net Savings per Participant (kWh/yr)	936,794	5,899	386,008	257,465	130,694	N/A	289,020	42,510	124,313	119,187	72,904	144,978	164,847	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	113.1	1.6	183.3	62.4	133.5	0.0	105.0	31.3	39.7	47.1	63.5	147.4	927.9	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	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)	113.1	1.6	183.3	62.4	133.5	0.0	105.0	31.3	39.7	47.1	63.5	147.4	927.9	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	N/A	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kW)	-11.3	-0.2	-18.3	-6.2	-13.4	0.0	-10.5	-3.1	-4.0	-4.7	-6.4	-14.7	-92.8	
		Net Adjusted Demand Reduction (kW)	101.8	1.4	165.0	56.2	120.2	0.0	94.5	28.2	35.7	42.4	57.2	132.7	835.1	
		Planned Net Savings (kW)	105.8	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	634.9	
		Annual % Toward Planned Net Reduction	16.0%	16.3%	42.2%	51.1%	70.0%	70.0%	84.8%	88.3%	95.0%	101.6%	110.6%	131.5%	131.5%	
		Avg. Gross Demand Reduction per Participant (kW)	113.1	1.6	61.1	31.2	16.7	N/A	35.0	6.3	13.2	15.7	10.6	21.1	22.1	
		Avg. Net Demand Reduction per Participant (kW)	101.8	1.4	55.0	28.1	15.0	N/A	31.5	5.6	11.9	14.1	9.5	19.0	19.9	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	113.1	1.6	183.3	62.4	133.5	0.0	105.0	31.3	39.7	47.1	63.5	147.4	927.9	
		Realization Rate Weighted by Measure	100%	100%	100%	100%	100%	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)	113.1	1.6	183.3	62.4	133.5	0.0	105.0	31.3	39.7	47.1	63.5	147.4	927.9	
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	N/A	90%	90%	90%	90%	90%	90%	90%	
		Net-To-Gross Adjustment (kW)	-11.3	-0.2	-18.3	-6.2	-13.4	0.0	-10.5	-3.1	-4.0	-4.7	-6.4	-14.7	-92.8	
		Net Adjusted Demand Reduction (kW)	101.8	1.4	165.0	56.2	120.2	0.0	94.5	28.2	35.7	42.4	57.2	132.7	835.1	
		Planned Net Savings (kW)	105.8	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	634.9	
		Annual % Toward Planned Net Reduction	16.0%	16.3%	42.2%	51.1%	70.0%	70.0%	84.9%	89.3%	95.0%	101.6%	110.6%	131.5%	131.5%	
		Avg. Gross Demand Reduction per Participant (kW)	113.1	1.6	61.1	31.2	16.7	N/A	35.0	6.3	13.2	15.7	10.6	21.1	22.1	
		Avg. Net Demand Reduction per Participant (kW)	101.8	1.4	55.0	28.1	15.0	N/A	31.5	5.6	11.9	14.1	9.5	19.0	19.9	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$3,731	\$3,640	\$3,514	\$3,466	\$2,931	\$3,045	\$3,005	\$2,735	\$2,681	\$2,659	\$2,486	\$2,439	\$2,439	
		\$Admin. per kWh/year (Gross)	\$0.01	\$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)	\$109	\$111	\$97	\$97	\$93	\$97	\$95	\$95	\$99	\$99	\$99	\$99	\$99	
		\$EM&V per \$Total	17.5%	17.5%	17.0%	16.8%	16.4%	16.6%	16.3%	16.3%	16.0%	15.6%	15.2%	14.3%	14.3%	
		\$Rebate per Participant (Gross)	\$19,159	\$18,309	\$18,871	\$19,225	\$17,434	\$17,434	\$17,872	\$15,973	\$15,753	\$15,839	\$15,046	\$14,748	\$14,748	

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J.25.3 2019–2023 Virginia Non-Residential Small Manufacturing Program (Phase VII) Measure Indicator Tables

VA - Non-Residential Small Manufacturing Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
Installed kWh/year	Add Storage	Total Participants	0	0	1	7	8	16
	Add Storage	Total Gross Energy Savings (kWh/yr)	0	0	6,549	92,104	57,906	156,558
	Add Storage	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Add Storage	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Add Storage	Net Adjusted Savings (kWh/yr)	0	0	5,894	82,893	52,115	140,902
	Add Storage	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	6,549	13,158	7,238	9,785
	Add Storage	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	5,894	11,842	6,514	8,806
Installed Summer peak kW	Add Storage	Total Gross Demand Reduction (kW)	0.0	0.0	1.4	14.4	13.0	28.8
	Add Storage	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Add Storage	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Add Storage	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.3	13.0	11.7	25.9
	Add Storage	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.4	2.1	1.6	1.8
	Add Storage	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.3	1.9	1.5	1.6
	Installed Winter peak kW	Add Storage	Total Gross Demand Reduction (kW)	-	-	1.4	14.4	13.0
Add Storage		Realization Rate	-	-	100%	100%	100%	100%
Add Storage		Net-To-Gross Rate	-	-	90%	90%	90%	90%
Add Storage		Net Adjusted Demand Reduction (kW)	-	-	1.3	13.0	11.7	25.9
Add Storage		Avg. Gross Demand Reduction per Participant (kW)	-	-	1.4	2.1	1.6	1.8
Add Storage		Avg. Net Demand Reduction per Participant (kW)	-	-	1.3	1.9	1.5	1.6
Installed kWh/year		Cycling Dryer	Total Participants	0	0	1	6	10
	Cycling Dryer	Total Gross Energy Savings (kWh/yr)	0	0	832	28,527	81,433	110,792
	Cycling Dryer	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Cycling Dryer	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Cycling Dryer	Net Adjusted Savings (kWh/yr)	0	0	749	25,674	73,290	99,713
	Cycling Dryer	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	832	4,754	8,143	6,517
	Cycling Dryer	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	749	4,279	7,329	5,865
Installed Summer peak kW	Cycling Dryer	Total Gross Demand Reduction (kW)	0.0	0.0	0.2	5.5	11.7	17.4
	Cycling Dryer	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Cycling Dryer	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Cycling Dryer	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.2	5.0	10.5	15.7
	Cycling Dryer	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.9	1.2	1.0
	Cycling Dryer	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.8	1.1	0.9
	Installed Winter peak kW	Cycling Dryer	Total Gross Demand Reduction (kW)	-	-	0.2	5.5	11.7
Cycling Dryer		Realization Rate	-	-	100%	100%	100%	100%
Cycling Dryer		Net-To-Gross Rate	-	-	90%	90%	90%	90%
Cycling Dryer		Net Adjusted Demand Reduction (kW)	-	-	0.2	5.0	10.5	15.7
Cycling Dryer		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.2	0.9	1.2	1.0
Cycling Dryer		Avg. Net Demand Reduction per Participant (kW)	-	-	0.2	0.8	1.1	0.9
Installed kWh/year		Dewpoint Control	Total Participants	0	0	0	0	1
	Dewpoint Control	Total Gross Energy Savings (kWh/yr)	0	0	0	0	37,534	37,534
	Dewpoint Control	Realization Rate	N/A	N/A	N/A	N/A	100%	100%
	Dewpoint Control	Net-To-Gross Rate	N/A	N/A	N/A	N/A	90%	90%
	Dewpoint Control	Net Adjusted Savings (kWh/yr)	0	0	0	0	33,780	33,780
	Dewpoint Control	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	37,534	37,534
	Dewpoint Control	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	33,780	33,780
Installed Summer peak kW	Dewpoint Control	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	6.1	6.1
	Dewpoint Control	Realization Rate	N/A	N/A	N/A	N/A	100%	100%
	Dewpoint Control	Net-To-Gross Rate	N/A	N/A	N/A	N/A	90%	90%
	Dewpoint Control	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	5.5	5.5
	Dewpoint Control	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	6.1	6.1
	Dewpoint Control	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	5.5	5.5
	Installed Winter peak kW	Dewpoint Control	Total Gross Demand Reduction (kW)	-	-	-	-	6.1

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VA - Non-Residential Small Manufacturing Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Dewpoint Control	Realization Rate	-	-	-	-	100%	100%
	Dewpoint Control	Net-To-Gross Rate	-	-	-	-	90%	90%
	Dewpoint Control	Net Adjusted Demand Reduction (kW)	-	-	-	-	5.5	5.5
	Dewpoint Control	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	6.1	6.1
	Dewpoint Control	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	5.5	5.5
	Engineered Nozzle	Total Participants	0	0	1	0	0	1
Installed kWh/year	Engineered Nozzle	Total Gross Energy Savings (kWh/yr)	0	0	55,058	0	0	55,058
	Engineered Nozzle	Realization Rate	N/A	N/A	100%	N/A	N/A	100%
	Engineered Nozzle	Net-To-Gross Rate	N/A	N/A	90%	N/A	N/A	90%
	Engineered Nozzle	Net Adjusted Savings (kWh/yr)	0	0	49,553	0	0	49,553
	Engineered Nozzle	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	55,058	N/A	N/A	55,058
	Engineered Nozzle	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	49,553	N/A	N/A	49,553
Installed Summer peak kW	Engineered Nozzle	Total Gross Demand Reduction (kW)	0.0	0.0	11.4	0.0	0.0	11.4
	Engineered Nozzle	Realization Rate	N/A	N/A	100%	N/A	N/A	100%
	Engineered Nozzle	Net-To-Gross Rate	N/A	N/A	90%	N/A	N/A	90%
	Engineered Nozzle	Net Adjusted Demand Reduction (kW)	0.0	0.0	10.3	0.0	0.0	10.3
	Engineered Nozzle	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	11.4	N/A	N/A	11.4
	Engineered Nozzle	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	10.3	N/A	N/A	10.3
Installed Winter peak kW	Engineered Nozzle	Total Gross Demand Reduction (kW)	-	-	11.4	0.0	0.0	11.4
	Engineered Nozzle	Realization Rate	-	-	100%	N/A	N/A	100%
	Engineered Nozzle	Net-To-Gross Rate	-	-	90%	N/A	N/A	90%
	Engineered Nozzle	Net Adjusted Demand Reduction (kW)	-	-	10.3	0.0	0.0	10.3
	Engineered Nozzle	Avg. Gross Demand Reduction per Participant (kW)	-	-	11.4	N/A	N/A	11.4
	Engineered Nozzle	Avg. Net Demand Reduction per Participant (kW)	-	-	10.3	N/A	N/A	10.3
Installed kWh/year	Leak Repair	Total Participants	0	0	1	11	29	41
	Leak Repair	Total Gross Energy Savings (kWh/yr)	0	0	37,665	3,315,842	5,599,898	8,953,405
	Leak Repair	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Leak Repair	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Leak Repair	Net Adjusted Savings (kWh/yr)	0	0	33,898	2,984,258	5,039,908	8,058,064
	Leak Repair	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	37,665	301,440	193,100	218,376
	Leak Repair	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	33,898	271,296	173,790	196,538
Installed Summer peak kW	Leak Repair	Total Gross Demand Reduction (kW)	0.0	0.0	7.8	366.0	658.8	1,032.6
	Leak Repair	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Leak Repair	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Leak Repair	Net Adjusted Demand Reduction (kW)	0.0	0.0	7.0	329.4	592.9	929.3
	Leak Repair	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	7.8	33.3	22.7	25.2
	Leak Repair	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	7.0	29.9	20.4	22.7
Installed Winter peak kW	Leak Repair	Total Gross Demand Reduction (kW)	-	-	7.8	366.0	658.8	1,032.6
	Leak Repair	Realization Rate	-	-	100%	100%	100%	100%
	Leak Repair	Net-To-Gross Rate	-	-	90%	90%	90%	90%
	Leak Repair	Net Adjusted Demand Reduction (kW)	-	-	7.0	329.4	592.9	929.3
	Leak Repair	Avg. Gross Demand Reduction per Participant (kW)	-	-	7.8	33.3	22.7	25.2
	Leak Repair	Avg. Net Demand Reduction per Participant (kW)	-	-	7.0	29.9	20.4	22.7
Installed kWh/year	Low Pressure-Drop Filter	Total Participants	0	0	1	10	12	23
	Low Pressure-Drop Filter	Total Gross Energy Savings (kWh/yr)	0	0	942	57,034	83,969	141,945
	Low Pressure-Drop Filter	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Low Pressure-Drop Filter	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Low Pressure-Drop Filter	Net Adjusted Savings (kWh/yr)	0	0	847	51,331	75,572	127,751
	Low Pressure-Drop Filter	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	942	5,703	6,997	6,172
	Low Pressure-Drop Filter	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	847	5,133	6,298	5,554
Installed Summer peak kW	Low Pressure-Drop Filter	Total Gross Demand Reduction (kW)	0.0	0.0	0.2	7.6	12.9	20.7
	Low Pressure-Drop Filter	Realization Rate	N/A	N/A	100%	100%	100%	100%



VA - Non-Residential Small Manufacturing Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	Low Pressure-Drop Filter	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Low Pressure-Drop Filter	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.2	6.8	11.6	18.6
	Low Pressure-Drop Filter	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.8	1.1	0.9
	Low Pressure-Drop Filter	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.7	1.0	0.8
Installed Winter peak kW	Low Pressure-Drop Filter	Total Gross Demand Reduction (kW)	-	-	0.2	7.6	12.9	20.7
	Low Pressure-Drop Filter	Realization Rate	-	-	100%	100%	100%	100%
	Low Pressure-Drop Filter	Net-To-Gross Rate	-	-	90%	90%	90%	90%
	Low Pressure-Drop Filter	Net Adjusted Demand Reduction (kW)	-	-	0.2	6.8	11.6	18.6
	Low Pressure-Drop Filter	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.2	0.8	1.1	0.9
	Low Pressure-Drop Filter	Avg. Net Demand Reduction per Participant (kW)	-	-	0.2	0.7	1.0	0.8
	No-Loss Condensate Drain	Total Participants	0	0	1	12	14	27
Installed kWh/year	No-Loss Condensate Drain	Total Gross Energy Savings (kWh/yr)	0	0	5,407	139,248	178,538	323,192
	No-Loss Condensate Drain	Realization Rate	N/A	N/A	100%	100%	100%	100%
	No-Loss Condensate Drain	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	No-Loss Condensate Drain	Net Adjusted Savings (kWh/yr)	0	0	4,866	125,323	160,684	290,873
	No-Loss Condensate Drain	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	5,407	11,604	12,753	11,970
	No-Loss Condensate Drain	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	4,866	10,444	11,477	10,773
Installed Summer peak kW	No-Loss Condensate Drain	Total Gross Demand Reduction (kW)	0.0	0.0	1.1	17.6	27.1	45.8
	No-Loss Condensate Drain	Realization Rate	N/A	N/A	100%	100%	100%	100%
	No-Loss Condensate Drain	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	No-Loss Condensate Drain	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.0	15.8	24.4	41.3
	No-Loss Condensate Drain	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.1	1.5	1.9	1.7
	No-Loss Condensate Drain	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.0	1.3	1.7	1.5
Installed Winter peak kW	No-Loss Condensate Drain	Total Gross Demand Reduction (kW)	-	-	1.1	17.6	27.1	45.8
	No-Loss Condensate Drain	Realization Rate	-	-	100%	100%	100%	100%
	No-Loss Condensate Drain	Net-To-Gross Rate	-	-	90%	90%	90%	90%
	No-Loss Condensate Drain	Net Adjusted Demand Reduction (kW)	-	-	1.0	15.8	24.4	41.3
	No-Loss Condensate Drain	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.1	1.5	1.9	1.7
	No-Loss Condensate Drain	Avg. Net Demand Reduction per Participant (kW)	-	-	1.0	1.3	1.7	1.5
	Pressure Reduction	Total Participants	0	0	1	10	6	17
Installed kWh/year	Pressure Reduction	Total Gross Energy Savings (kWh/yr)	0	0	5,784	313,550	157,416	476,751
	Pressure Reduction	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Pressure Reduction	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Pressure Reduction	Net Adjusted Savings (kWh/yr)	0	0	5,206	282,195	141,675	429,076
	Pressure Reduction	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	5,784	31,355	26,236	28,044
	Pressure Reduction	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	5,206	28,219	23,612	25,240
Installed Summer peak kW	Pressure Reduction	Total Gross Demand Reduction (kW)	0.0	0.0	1.1	38.7	19.5	59.3
	Pressure Reduction	Realization Rate	N/A	N/A	100%	100%	100%	100%
	Pressure Reduction	Net-To-Gross Rate	N/A	N/A	90%	90%	90%	90%
	Pressure Reduction	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.0	34.8	17.6	53.4
	Pressure Reduction	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.1	3.9	3.3	3.5
	Pressure Reduction	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.0	3.5	2.9	3.1
Installed Winter peak kW	Pressure Reduction	Total Gross Demand Reduction (kW)	-	-	1.1	38.7	19.5	59.3
	Pressure Reduction	Realization Rate	-	-	100%	100%	100%	100%
	Pressure Reduction	Net-To-Gross Rate	-	-	90%	90%	90%	90%
	Pressure Reduction	Net Adjusted Demand Reduction (kW)	-	-	1.0	34.8	17.6	53.4
	Pressure Reduction	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.1	3.9	3.3	3.5
	Pressure Reduction	Avg. Net Demand Reduction per Participant (kW)	-	-	1.0	3.5	2.9	3.1
	VSD at Air Compressor	Total Participants	0	0	0	4	8	12
Installed kWh/year	VSD at Air Compressor	Total Gross Energy Savings (kWh/yr)	0	0	0	762,599	1,496,169	2,258,768
	VSD at Air Compressor	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	VSD at Air Compressor	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%



VA - Non-Residential Small Manufacturing Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	VSD at Air Compressor	Net Adjusted Savings (kWh/yr)	0	0	0	686,339	1,346,552	2,032,891
	VSD at Air Compressor	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	190,650	187,021	188,231
	VSD at Air Compressor	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	171,585	168,319	169,408
Installed Summer peak kW	VSD at Air Compressor	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	113.1	178.8	291.9
	VSD at Air Compressor	Realization Rate	N/A	N/A	N/A	100%	100%	100%
	VSD at Air Compressor	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%	90%
	VSD at Air Compressor	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	101.8	160.9	262.7
	VSD at Air Compressor	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	28.3	22.4	24.3
	VSD at Air Compressor	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	25.4	20.1	21.9
Installed Winter peak kW	VSD at Air Compressor	Total Gross Demand Reduction (kW)	-	-	-	113.1	178.8	291.9
	VSD at Air Compressor	Realization Rate	-	-	-	100%	100%	100%
	VSD at Air Compressor	Net-To-Gross Rate	-	-	-	90%	90%	90%
	VSD at Air Compressor	Net Adjusted Demand Reduction (kW)	-	-	-	101.8	160.9	262.7
	VSD at Air Compressor	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	28.3	22.4	24.3
	VSD at Air Compressor	Avg. Net Demand Reduction per Participant (kW)	-	-	-	25.4	20.1	21.9
	VSD/Air-compressor Downsize	Total Participants	0	0	0	1	0	1
Installed kWh/year	VSD/Air-compressor Downsize	Total Gross Energy Savings (kWh/yr)	0	0	0	177,192	0	177,192
	VSD/Air-compressor Downsize	Realization Rate	N/A	N/A	N/A	100%	N/A	100%
	VSD/Air-compressor Downsize	Net-To-Gross Rate	N/A	N/A	N/A	90%	N/A	90%
	VSD/Air-compressor Downsize	Net Adjusted Savings (kWh/yr)	0	0	0	159,472	0	159,472
	VSD/Air-compressor Downsize	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	177,192	N/A	177,192
	VSD/Air-compressor Downsize	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	159,472	N/A	159,472
Installed Summer peak kW	VSD/Air-compressor Downsize	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	19.3	0.0	19.3
	VSD/Air-compressor Downsize	Realization Rate	N/A	N/A	N/A	100%	N/A	100%
	VSD/Air-compressor Downsize	Net-To-Gross Rate	N/A	N/A	N/A	90%	N/A	90%
	VSD/Air-compressor Downsize	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	17.4	0.0	17.4
	VSD/Air-compressor Downsize	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	19.3	N/A	19.3
	VSD/Air-compressor Downsize	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	17.4	N/A	17.4
Installed Winter peak kW	VSD/Air-compressor Downsize	Total Gross Demand Reduction (kW)	-	-	-	19.3	0.0	19.3
	VSD/Air-compressor Downsize	Realization Rate	-	-	-	100%	N/A	100%
	VSD/Air-compressor Downsize	Net-To-Gross Rate	-	-	-	90%	N/A	90%
	VSD/Air-compressor Downsize	Net Adjusted Demand Reduction (kW)	-	-	-	17.4	0.0	17.4
	VSD/Air-compressor Downsize	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	19.3	N/A	19.3
	VSD/Air-compressor Downsize	Avg. Net Demand Reduction per Participant (kW)	-	-	-	17.4	N/A	17.4



**J.25.4 2019–2023 Virginia Non-Residential Small Manufacturing Program (Phase VII)  
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
CTSM	105	Schedule 5	100093.644	45690.17143	2.190704059	54044.91726	1.852045467
CTSM	110	Schedule GS-1	169159.557	45690.17143	3.702318282	25717.7424	6.577543019
CTSM	114	Schedule GS-2T	86433.2532	45690.17143	1.891725299	541550.383	0.159603346
CTSM	117	Schedule GS-3	377765.73	45690.17143	8.267986707	7105430.618	0.053165776
CTSM	120	Schedule GS-4	564189.369	45690.17143	12.3481561	79519603.45	0.007094972
CTSM	126	Schedule 6T5	350272.305	45690.17143	7.666250619	6790185.185	0.051585089
CTSM	130	Schedule 10	148363.6982	45690.17143	3.247168781	3584793.852	0.041386954
CTSM	168	Schedule 5	100093.644	45690.17143	2.190704059	Not Available	Not Available
CTSM	183	Schedule 10	148363.6982	45690.17143	3.247168781	Not Available	Not Available
CTSM	194	Schedule 28	74882.691	45690.17143	1.638923398	3066.246057	24.42161836
CTSM	227	Schedule GS-2	106584.752	45690.17143	2.332771987	329494.9816	0.323479136
CTSM	247	Schedule 10 (Prim. & Trans.)	253827.2421	45690.17143	5.555401396	21451193.18	0.01183278
CTSM	261	Schedule 10	148363.6982	45690.17143	3.247168781	Not Available	Not Available
CTSM	262	Schedule 10	148363.6982	45690.17143	3.247168781	Not Available	Not Available
CTSM	All Codes	All Rates	184227.0259	45690.17143	4.03209312	Not Available	Not Available

**J.25.5 2019–2023 Virginia Non-Residential Small Manufacturing Program (Phase VII)  
Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
7	Non-Residential Small Manufacturing	2018	VA	PUR-2018-00168	3.11	1.37	1.27	0.53
7	Non-Residential Small Manufacturing	2019	VA	PUR-2019-00201	N/A	N/A	N/A	N/A
7	Non-Residential Small Manufacturing	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
7	Non-Residential Small Manufacturing	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
7	Non-Residential Small Manufacturing	2022	VA	PUR-2022-00210	7.67	2.74	2.52	0.52
7	Non-Residential Small Manufacturing	2023	VA	PUR-2023-00217	20.59	6.16	5.76	0.48
7	Non-Residential Small Manufacturing	2024	VA	EM&V Report				



CONFIDENTIAL INFORMATION REDACTED

J.26 Virginia Non-Residential Window Film Program (Phase VII) 2019–2023

J.26.1 2019–2023 Virginia Non-Residential Window Film Program (Phase VII) Annual Indicator Tables

VA - Non-Residential Window Film 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	\$192,146	\$356,882	\$325,497	\$273,733	\$254,640	\$1,402,899
Costs (\$)		Planned	\$317,588	\$445,263	\$435,863	\$444,630	\$425,879	\$2,069,223
Costs (\$)		Variance	-\$125,441	-\$88,381	-\$110,366	-\$170,897	-\$171,240	-\$666,325
		Annual % of Planned	61%	80%	75%	62%	60%	68%
Participants <sup>1</sup>		Total (Gross)	0	22	19	28	17	86
		Total Square Feet	0	62,925	21,212	17,711	23,871	125,719
		Planned Square Feet	68,400	125,913	125,913	125,913	125,913	572,052
		Variance Square Feet	-68,400	-62,988	-104,701	-108,202	-102,042	-446,333
		Annual % of Planned (Gross)	0%	50%	17%	14%	19%	22%
Square Feet		Total Square Feet	0	62,925	21,212	17,711	23,871	125,719
		North Facing	0	23,874	9,861	3,507	10,916	48,158
		East Facing	0	11,852	9,480	5,414	3,659	30,405
		West Facing	0	3,002	1,431	2,179	1,451	8,063
		South Facing	0	24,197	440	6,611	7,845	39,093
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	250,377	79,659	180,296	73,351	583,683
		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	250,377	79,659	180,296	73,351	583,683
		Net-To-Gross Rate Weighted by Measure	N/A	80%	80%	80%	80%	80%
		Net-To-Gross Adjustment (kWh/yr)	0	-50,075	-15,932	-36,059	-14,670	-116,737
		Net Adjusted Savings (kWh/yr)	0	200,302	63,727	144,237	58,681	466,946
		Planned Net Savings (kWh/yr)	902,880	1,662,052	1,662,052	1,662,052	1,662,052	7,551,086
		Annual % Toward Planned Net Savings	0%	12.1%	3.83%	8.68%	3.53%	6.18%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	11,381	4,193	6,439	4,315	6,787
		Avg. Gross Savings per Square Feet (kWh/yr)	N/A	4.0	3.8	10.2	3.1	4.6
		Avg. Net Savings per Participant (kWh/yr)	N/A	9,105	3,354	5,151	3,452	5,430
		Avg. Net Savings per Square Feet (kWh/yr)	N/A	3.2	3.0	8.1	2.5	3.7
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	78.1	0.0	0.0	0.0	78.1
		Realization Rate Weighted by Measure	N/A	100%	N/A	N/A	N/A	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	78.1	0.0	0.0	0.0	78.1
		Net-To-Gross Rate Weighted by Measure	N/A	80%	N/A	N/A	N/A	80%
		Net-To-Gross Adjustment (kW)	0.0	-15.6	0.0	0.0	0.0	-15.6
		Net Adjusted Demand Reduction (kW)	0.0	62.5	0.0	0.0	0.0	62.5
		Planned Net Savings (kW)	262.7	483.5	483.5	483.5	483.5	2,196.7
		Annual % Toward Planned Net Reduction	0%	12.9%	0%	0%	0%	2.84%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	3.5	0.0	0.0	0.0	0.9
		Avg. Gross Demand Reduction per Square Feet (kW)	N/A	0.001	0.0	0.0	0.0	0.001
		Avg. Net Demand Reduction per Participant (kW)	N/A	2.8	0.0	0.0	0.0	0.7
		Avg. Net Demand Reduction Square Feet (kW)	N/A	0.001	0.0	0.0	0.0	0.000
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
		Realization Rate Weighted by Measure	-	-	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	-	-	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	-	-	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	-	-	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	0.0	381.8	381.8	381.8	1,145.3
		Annual % Toward Planned Net Reduction	-	-	0%	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
		Avg. Gross Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
		Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
		Avg. Net Demand Reduction Square Feet (kW)	-	-	N/A	N/A	N/A	-
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$1,161	\$995	\$757	\$807	\$807
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0	\$0	\$0	\$0
		\$Admin. per kW (Gross)	N/A	\$327	\$523	\$669	\$889	\$889
		\$EM&V per \$Total	15.4%	16.3%	17.6%	16.2%	16.0%	16.0%
		\$Rebate per Participant (Gross)	N/A	\$2,465	\$1,833	\$1,577	\$1,506	\$1,506

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J.26.2 2023 Virginia Non-Residential Window Film Program (Phase VII) Monthly Indicator Tables

VA - Non-Residential Window Film 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)	\$1,185	\$1,029	\$1,202	\$2,517	\$1,472	\$1,699	\$1,433	\$1,488	\$1,134	\$1,104	\$1,394	\$1,549	\$17,205	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$17,541	\$15,227	\$17,791	\$37,247	\$21,779	\$25,141	\$21,212	\$22,022	\$16,783	\$16,342	\$20,633	\$22,922	\$254,640	
Costs (\$)		Planned	\$28,392	\$28,392	\$28,392	\$28,392	\$28,392	\$28,392	\$42,588	\$42,588	\$42,588	\$42,588	\$42,588	\$42,588	\$425,879	
Costs (\$)		Variance	-\$10,851	-\$13,165	-\$10,601	\$8,855	-\$6,613	-\$3,251	-\$21,376	-\$20,566	-\$25,805	-\$26,246	-\$21,955	-\$19,666	-\$171,240	
		Annual % of Planned	4.1%	7.7%	11.9%	20.6%	25.7%	31.6%	36.6%	41.8%	45.7%	49.6%	54.4%	59.8%	60%	
Participants <sup>1</sup>		Total (Gross)	0	0	0	1	1	4	1	4	1	0	3	2	17	
		Total Square Feet	0	0	0	19,615	364	1,456	150	593	71	0	1,417	205	23,871	
		Planned Square Feet	10,501	10,492	10,492	10,492	10,492	10,492	10,492	10,492	10,492	10,492	10,492	10,492	125,913	
		Variance Square Feet	-10,501	-10,492	-10,492	9,123	-10,128	-9,036	-10,342	-9,899	-10,421	-10,492	-9,076	-10,287	-102,042	
		Annual % of Planned (Gross)	0%	0%	0%	16%	16%	17%	17%	18%	18%	16%	19%	19%	19%	
Square Feet		Total Square Feet	0	0	0	19,615	364	1,456	150	593	71	0	1,417	205	23,871	
		North Facing	0	0	0	9,085	0	300	150	51	0	0	1,318	12	10,916	
		East Facing	0	0	0	2,969	0	88	0	336	47	0	99	120	3,659	
		West Facing	0	0	0	1,118	0	333	0	0	0	0	0	0	1,451	
		South Facing	0	0	0	6,443	364	735	0	206	24	0	73	7,845		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	88,540	7	1,517	131	1,688	122	0	773	574	73,351	
		Realization Rate Weighted by Measure	N/A	N/A	N/A	100%	100%	100%	100%	100%	100%	N/A	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)	0	0	0	88,540	7	1,517	131	1,688	122	0	773	574	73,351	
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	80%	80%	80%	80%	80%	80%	N/A	80%	80%	80%	
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	-13,708	-1	-303	-26	-338	-24	0	-155	-115	-14,670	
		Net Adjusted Savings (kWh/yr)	0	0	0	54,832	6	1,213	104	1,351	98	0	618	459	58,681	
		Planned Net Savings (kWh/yr)	138,613	138,494	138,494	138,494	138,494	138,494	138,494	138,494	138,494	138,494	138,494	138,494	1,662,052	
		Annual % Toward Planned Net Savings	0%	0%	0%	3.30%	3.30%	3.37%	3.38%	3.46%	3.47%	3.47%	3.50%	3.53%	3.53%	
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	68,540	7	379	131	422	122	N/A	258	287	4,315	
		Avg. Gross Savings per Square Feet (kWh/yr)	N/A	N/A	N/A	3.5	0.02	1.0	0.9	2.8	1.7	N/A	0.5	2.8	3.1	
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	54,832	6	303	104	338	98	N/A	208	229	3,452	
		Avg. Net Savings per Square Feet (kWh/yr)	N/A	N/A	N/A	2.8	0.02	0.8	0.7	2.3	1.4	N/A	0.4	2.2	2.5	
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)	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	483.5	
		Annual % Toward Planned Net Reduction	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	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
		Avg. Gross Demand Reduction per Square Feet (kW)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
		Avg. Net Demand Reduction Square Feet (kW)	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
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)	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	381.8	
		Annual % Toward Planned Net Reduction	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	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
		Avg. Gross Demand Reduction per Square Feet (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	0.0	0.0	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	
		Avg. Net Demand Reduction Square Feet (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)	\$774	\$789	\$806	\$831	\$840	\$818	\$826	\$803	\$807	\$821	\$808	\$807	\$807	
		\$Admin. per kWh/year (Gross)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		\$Admin. per kW (Gross)	\$884	\$697	\$713	\$745	\$764	\$786	\$804	\$823	\$837	\$852	\$869	\$889	\$889	
		\$EM&V per \$ Total	16.3%	16.2%	16.3%	16.2%	16.2%	16.2%	16.3%	16.3%	16.2%	16.1%	16.1%	16.0%	16.0%	
		\$Rebate per Participant (Gross)	\$1,577	\$1,577	\$1,577	\$1,795	\$1,775	\$1,697	\$1,677	\$1,600	\$1,581	\$1,581	\$1,540	\$1,506	\$1,506	

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J.26.3 2019–2023 Virginia Non-Residential Window Film Program (Phase VII) Measure Indicator Tables

VA - Non-Residential Window Film Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
	East	Total Participants	0	9	7	14	9	39
	East	Total Square Feet	0	11,852	9,480	5,414	3,659	30,405
Installed kWh/year	East	Total Gross Energy Savings (kWh/yr)	0	80,582	54,707	79,281	16,535	231,105
	East	Realization Rate	N/A	100%	100%	100%	100%	100%
	East	Net-To-Gross Rate	N/A	80%	80%	80%	80%	80%
	East	Net Adjusted Savings (kWh/yr)	0	64,466	43,766	63,425	13,228	184,884
	East	Avg. Gross Savings per Participant (kWh/yr)	N/A	8,954	7,815	5,663	1,837	5,926
	East	Avg. Gross Savings per Square Feet (kWh/yr)	N/A	6.8	5.8	14.6	4.5	7.6
	East	Avg. Net Savings per Participant (kWh/yr)	N/A	7,163	6,252	4,530	1,470	4,741
	East	Avg. Net Savings per Square Feet (kWh/yr)	N/A	5.4	4.6	11.7	3.6	6.1
Installed Summer peak kW	East	Total Gross Demand Reduction (kW)	0.0	22.3	0.0	0.0	0.0	22.3
	East	Realization Rate	N/A	100%	N/A	N/A	N/A	100%
	East	Net-To-Gross Rate	N/A	80%	N/A	N/A	N/A	80%
	East	Net Adjusted Demand Reduction (kW)	0.0	17.8	0.0	0.0	0.0	17.8
	East	Avg. Gross Demand Reduction per Participant (kW)	N/A	2.5	0.0	0.0	0.0	0.6
	East	Avg. Gross Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
	East	Avg. Net Demand Reduction per Participant (kW)	N/A	2.0	0.0	0.0	0.0	0.5
	East	Avg. Net Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
Installed Winter peak kW	East	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	East	Realization Rate	-	-	N/A	N/A	N/A	N/A
	East	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	East	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	East	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	East	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	East	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	East	Avg. Net Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	North	Total Participants	0	7	7	5	9	28
	North	Total Square Feet	0	23,874	9,861	3,507	10,916	48,158
Installed kWh/year	North	Total Gross Energy Savings (kWh/yr)	0	41,054	19,111	5,246	15,498	80,908
	North	Realization Rate	N/A	100%	100%	100%	100%	100%
	North	Net-To-Gross Rate	N/A	80%	80%	80%	80%	80%
	North	Net Adjusted Savings (kWh/yr)	0	32,843	15,289	4,197	12,398	64,726
	North	Avg. Gross Savings per Participant (kWh/yr)	N/A	5,865	2,730	1,049	1,722	2,890
	North	Avg. Gross Savings per Square Feet (kWh/yr)	N/A	1.7	1.9	1.5	1.4	1.7
	North	Avg. Net Savings per Participant (kWh/yr)	N/A	4,692	2,184	839	1,378	2,312
	North	Avg. Net Savings per Square Feet (kWh/yr)	N/A	1.4	1.6	1.2	1.1	1.3
Installed Summer peak kW	North	Total Gross Demand Reduction (kW)	0.0	13.9	0.0	0.0	0.0	13.9
	North	Realization Rate	N/A	100%	N/A	N/A	N/A	100%
	North	Net-To-Gross Rate	N/A	80%	N/A	N/A	N/A	80%
	North	Net Adjusted Demand Reduction (kW)	0.0	11.2	0.0	0.0	0.0	11.2
	North	Avg. Gross Demand Reduction per Participant (kW)	N/A	2.0	0.0	0.0	0.0	0.5
	North	Avg. Gross Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
	North	Avg. Net Demand Reduction per Participant (kW)	N/A	1.6	0.0	0.0	0.0	0.4
	North	Avg. Net Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
Installed Winter peak kW	North	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	North	Realization Rate	-	-	N/A	N/A	N/A	N/A
	North	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	North	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	North	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	North	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	North	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	North	Avg. Net Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	South	Total Participants	0	9	3	12	8	32
	South	Total Square Feet	0	24,197	440	6,611	7,845	39,093





VA - Non-Residential Window Film Program			2019	2020	2021	2022	2023	2019-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total	Total
Installed kWh/year	South	Total Gross Energy Savings (kWh/yr)	0	84,173	818	58,121	36,548	179,660
	South	Realization Rate	N/A	100%	100%	100%	100%	100%
	South	Net-To-Gross Rate	N/A	80%	80%	80%	80%	80%
	South	Net Adjusted Savings (kWh/yr)	0	67,339	654	46,497	29,239	143,728
	South	Avg. Gross Savings per Participant (kWh/yr)	N/A	9,353	273	4,843	4,569	5,614
	South	Avg. Gross Savings per Square Feet (kWh/yr)	N/A	3.5	1.9	8.8	4.7	4.6
	South	Avg. Net Savings per Participant (kWh/yr)	N/A	7,482	218	3,875	3,655	4,491
	South	Avg. Net Savings per Square Feet (kWh/yr)	N/A	2.8	1.5	7.0	3.7	3.7
Installed Summer peak kW	South	Total Gross Demand Reduction (kW)	0.0	23.1	0.0	0.0	0.0	23.1
	South	Realization Rate	N/A	100%	N/A	N/A	N/A	100%
	South	Net-To-Gross Rate	N/A	80%	N/A	N/A	N/A	80%
	South	Net Adjusted Demand Reduction (kW)	0.0	18.5	0.0	0.0	0.0	18.5
	South	Avg. Gross Demand Reduction per Participant (kW)	N/A	2.6	0.0	0.0	0.0	0.7
	South	Avg. Gross Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
	South	Avg. Net Demand Reduction per Participant (kW)	N/A	2.1	0.0	0.0	0.0	0.6
	South	Avg. Net Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
Installed Winter peak kW	South	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	South	Realization Rate	-	-	N/A	N/A	N/A	N/A
	South	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	South	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	South	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	South	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	South	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	South	Avg. Net Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
West	Total Participants		0	5	6	6	2	19
	Total Square Feet		0	3,002	1,431	2,179	1,451	8,063
Installed kWh/year	West	Total Gross Energy Savings (kWh/yr)	0	44,568	5,023	37,648	4,771	92,010
	West	Realization Rate	N/A	100%	100%	100%	100%	100%
	West	Net-To-Gross Rate	N/A	80%	80%	80%	80%	80%
	West	Net Adjusted Savings (kWh/yr)	0	35,654	4,018	30,119	3,817	73,608
	West	Avg. Gross Savings per Participant (kWh/yr)	N/A	8,914	837	6,275	2,385	4,843
	West	Avg. Gross Savings per Square Feet (kWh/yr)	N/A	14.8	3.5	17.3	3.3	11.4
	West	Avg. Net Savings per Participant (kWh/yr)	N/A	7,131	670	5,020	1,908	3,874
	West	Avg. Net Savings per Square Feet (kWh/yr)	N/A	11.9	2.8	13.8	2.6	9.1
Installed Summer peak kW	West	Total Gross Demand Reduction (kW)	0.0	18.7	0.0	0.0	0.0	18.7
	West	Realization Rate	N/A	100%	N/A	N/A	N/A	100%
	West	Net-To-Gross Rate	N/A	80%	N/A	N/A	N/A	80%
	West	Net Adjusted Demand Reduction (kW)	0.0	15.0	0.0	0.0	0.0	15.0
	West	Avg. Gross Demand Reduction per Participant (kW)	N/A	3.7	0.0	0.0	0.0	1.0
	West	Avg. Gross Demand Reduction per Square Feet (kW)	N/A	0.01	0.0	0.0	0.0	0.00
	West	Avg. Net Demand Reduction per Participant (kW)	N/A	3.0	0.0	0.0	0.0	0.8
	West	Avg. Net Demand Reduction per Square Feet (kW)	N/A	0.00	0.0	0.0	0.0	0.00
Installed Winter peak kW	West	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	West	Realization Rate	-	-	N/A	N/A	N/A	N/A
	West	Net-To-Gross Rate	-	-	N/A	N/A	N/A	N/A
	West	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0	0.0
	West	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	West	Avg. Gross Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-
	West	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	0.0	-
	West	Avg. Net Demand Reduction per Square Feet (kW)	-	-	N/A	N/A	N/A	-



J.26.4 2019–2023 Virginia Non-Residential Window Film Program (Phase VII) 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
CSW2	110	Schedule GS-1	367.390687	13.2	27.8326278	25717.7424	0.014285495
CSW2	114	Schedule GS-2T	351.184	13.2	26.60484848	541550.383	0.000648479
CSW2	117	Schedule GS-3	121837.96	13.2	9230.148485	7105430.618	0.017147161
CSW2	227	Schedule GS-2	11577.9652	13.2	877.118576	329494.9816	0.035138518
CSW2	All Codes	All Rates	5429.605211	13.2	411.3337281	Not Available	Not Available

J.26.5 2019–2023 Virginia Non-Residential Window Film Program (Phase VII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
7	Non-Residential Window Film	2018	VA	PUR-2018-00168	3.63	1.87	1.42	0.62
7	Non-Residential Window Film	2019	VA	PUR-2019-00201	N/A	N/A	N/A	N/A
7	Non-Residential Window Film	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
7	Non-Residential Window Film	2021	VA	PUR-2021-00247	1.49	0.47	0.35	0.29
7	Non-Residential Window Film	2022	VA	PUR-2022-00210	1.62	0.54	0.40	0.31
7	Non-Residential Window Film	2023	VA	PUR-2023-00217	2.97	0.8	0.59	0.32
7	Non-Residential Window Film	2024	VA	EM&V Report				



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**J.27 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) 2020–2023**

**J.27.1 2020–2023 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) Annual Indicator Tables**

VA - Non-Residential Midstream Energy Efficiency Products 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	\$46,145	\$488,674	\$845,079	\$717,250	\$2,097,148
Costs (\$)		Planned	\$0	\$1,916,471	\$1,878,007	\$1,870,924	\$5,665,402
Costs (\$)		Variance	\$46,145	-\$1,427,798	-\$1,032,928	-\$1,153,674	-\$3,568,254
		Annual % of Planned	N/A	25%	45%	38%	37%
Participants <sup>1</sup>		Total (Gross)	0	7	113	83	203
		Planned	0	300	300	300	900
		Variance	0	-293	-187	-217	-697
		Annual % of Planned (Gross)	N/A	2%	38%	28%	23%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	65,116	1,624,787	2,220,361	3,910,264
		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	65,116	1,624,787	2,220,361	3,910,264
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-6,512	-162,479	-222,036	-391,026
		Net Adjusted Savings (kWh/yr)	0	58,605	1,462,308	1,998,325	3,519,238
		Planned Net Savings (kWh/yr)	0	3,834,268	3,834,268	3,834,268	11,502,805
		Annual % Toward Planned Net Savings	N/A	1.53%	38.1%	52.1%	30.6%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	9,302	14,379	26,751	19,262
		Avg. Net Savings per Participant (kWh/yr)	N/A	8,372	12,941	24,076	17,336
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	81.4	1,957.3	621.5	2,660.2
		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	81.4	1,957.3	621.5	2,660.2
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-8.1	-195.7	-62.1	-266.0
		Net Adjusted Demand Reduction (kW)	0.0	73.3	1,761.6	559.3	2,394.2
		Planned Net Savings (kW)	0.0	2,555.6	2,555.6	2,555.6	7,666.9
		Annual % Toward Planned Net Reduction	N/A	2.87%	68.9%	21.9%	31.2%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	11.6	17.3	7.5	13.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	10.5	15.6	6.7	11.8
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	11.2	74.1	303.2	388.5
		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)	-	11.2	74.1	303.2	388.5
		Net-To-Gross Rate Weighted by Measure	-	90%	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-1.1	-7.4	-30.3	-38.8
		Net Adjusted Demand Reduction (kW)	-	10.1	66.7	272.9	349.6
		Planned Net Savings (kW)	0.0	334.8	334.8	334.8	1,004.5
		Annual % Toward Planned Net Reduction	-	3.01%	19.9%	81.5%	34.8%
		Avg. Gross Demand Reduction per Participant (kW)	-	1.6	0.7	3.7	1.9
		Avg. Net Demand Reduction per Participant (kW)	-	1.4	0.6	3.3	1.7
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$3,555	\$501	\$535	\$535
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0.04	\$0.03	\$0.03
		\$Admin. per kW (Gross)	N/A	\$306	\$30	\$41	\$41
		\$EM&V per \$Total	90.5%	30.4%	22.5%	20.2%	20.2%
		\$Rebate per Participant (Gross)	N/A	\$1,380	\$3,417	\$3,363	\$3,363

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J.27.2 2023 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) Monthly Indicator Tables

VA - Non-Residential Midstream Energy Efficiency Products 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)	\$4,398	\$2,725	\$2,994	\$2,940	\$12,542	\$3,245	\$4,129	\$2,471	\$3,078	\$2,558	\$4,038	\$3,345	\$48,463			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$65,094	\$40,328	\$44,304	\$43,511	\$185,621	\$48,020	\$81,108	\$36,573	\$45,559	\$37,865	\$59,766	\$49,500	\$717,250			
Costs (\$)		Planned	\$124,728	\$124,728	\$124,728	\$124,728	\$124,728	\$124,728	\$187,092	\$187,092	\$187,092	\$187,092	\$187,092	\$187,092	\$1,670,924			
Costs (\$)		Variance	-\$59,634	-\$84,400	-\$80,424	-\$81,217	\$60,893	-\$76,708	-\$125,984	-\$150,519	-\$141,533	-\$149,227	-\$127,326	-\$137,592	-\$1,153,674			
		Annual % of Planned	3.5%	6.8%	6.4%	6.5%	4.8%	5.9%	6.5%	7.8%	7.5%	8.0%	7.3%	7.4%				
Participants <sup>1</sup>		Total (Gross)	4	4	3	6	6	5	12	4	9	5	13	12	83			
		Planned	25	25	25	25	25	25	25	25	25	25	25	25	300			
		Variance	-21	-21	-22	-19	-19	-20	-13	-21	-16	-20	-12	-13	-217			
		Annual % of Planned (Gross)	1%	3%	4%	6%	8%	9%	13%	15%	18%	19%	24%	28%	28%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	368,962	171,001	147,625	220,821	491,195	82,743	134,225	32,993	140,731	134,979	118,790	176,296	2,220,361			
		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)	368,962	171,001	147,625	220,821	491,195	82,743	134,225	32,993	140,731	134,979	118,790	176,296	2,220,361			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kWh/yr)	-36,896	-17,100	-14,763	-22,082	-49,120	-8,274	-13,423	-3,299	-14,073	-13,498	-11,879	-17,630	-222,036			
		Net Adjusted Savings (kWh/yr)	332,066	153,901	132,863	198,739	442,076	74,469	120,803	29,694	126,658	121,481	106,911	158,666	1,998,325			
		Planned Net Savings (kWh/yr)	319,522	319,522	319,522	319,522	319,522	319,522	319,522	319,522	319,522	319,522	319,522	319,522	3,834,268			
		Annual % Toward Planned Net Savings	8.66%	12.7%	16.1%	21.3%	32.9%	34.8%	37.9%	38.7%	42.0%	45.2%	48.0%	52.1%	52.1%			
		Avg. Gross Savings per Participant (kWh/yr)	92,240	42,750	49,208	36,803	81,866	16,549	11,185	8,248	15,637	26,998	9,138	14,691	26,751			
		Avg. Net Savings per Participant (kWh/yr)	83,016	38,475	44,288	33,123	73,679	14,894	10,067	7,423	14,073	24,296	8,224	13,222	24,076			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	35.2	17.5	12.3	46.7	277.3	20.1	74.6	5.7	25.8	28.7	25.8	51.8	621.5			
		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)	35.2	17.5	12.3	46.7	277.3	20.1	74.6	5.7	25.8	28.7	25.8	51.8	621.5			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kW)	-3.5	-1.8	-1.2	-4.7	-27.7	-2.0	-7.5	-0.6	-2.6	-2.9	-2.8	-5.2	-62.1			
		Net Adjusted Demand Reduction (kW)	31.7	15.8	11.0	42.0	249.5	18.1	67.1	5.1	23.2	25.9	23.2	46.6	559.3			
		Planned Net Savings (kW)	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	2,555.6			
		Annual % Toward Planned Net Reduction	1.24%	1.86%	2.29%	3.93%	13.7%	14.4%	17.0%	17.2%	18.1%	19.2%	20.1%	21.9%	21.9%			
		Avg. Gross Demand Reduction per Participant (kW)	8.8	4.4	4.1	7.8	46.2	4.0	6.2	1.4	2.9	5.7	2.0	4.3	7.5			
		Avg. Net Demand Reduction per Participant (kW)	7.9	3.9	3.7	7.0	41.6	3.6	5.6	1.3	2.6	5.2	1.8	3.9	6.7			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	28.4	31.9	27.7	46.7	4.8	10.2	16.3	5.7	25.2	28.7	20.6	56.9	303.2			
		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)	28.4	31.9	27.7	46.7	4.8	10.2	16.3	5.7	25.2	28.7	20.6	56.9	303.2			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kW)	-2.8	-3.2	-2.8	-4.7	-0.5	-1.0	-1.6	-0.6	-2.5	-2.9	-2.1	-5.7	-30.3			
		Net Adjusted Demand Reduction (kW)	25.5	28.7	25.0	42.0	4.3	9.2	14.7	5.1	22.7	25.9	18.6	51.2	272.9			
		Planned Net Savings (kW)	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	334.8			
		Annual % Toward Planned Net Reduction	7.63%	16.2%	23.7%	36.2%	37.5%	40.2%	44.6%	46.2%	52.9%	60.7%	66.2%	81.5%	81.5%			
		Avg. Gross Demand Reduction per Participant (kW)	7.1	8.0	9.2	7.8	0.8	2.0	1.4	1.4	2.8	5.7	1.6	4.7	3.7			
		Avg. Net Demand Reduction per Participant (kW)	6.4	7.2	8.3	7.0	0.7	1.8	1.2	1.3	2.5	5.2	1.4	4.3	3.3			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$521	\$526	\$537	\$534	\$600	\$601	\$582	\$583	\$570	\$569	\$551	\$535	\$535			
		\$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)	\$31	\$32	\$33	\$34	\$35	\$36	\$37	\$38	\$39	\$39	\$40	\$41	\$41			
		\$EM&V per \$Total	22.0%	21.8%	21.9%	22.1%	20.5%	20.5%	20.4%	20.5%	20.4%	20.4%	20.2%	20.2%	20.2%			
		\$Rebate per Participant (Gross)	\$3,558	\$3,513	\$3,491	\$3,377	\$4,191	\$4,126	\$3,946	\$3,865	\$3,729	\$3,651	\$3,515	\$3,363	\$3,363			



J.27.3 2020–2023 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) Measure Indicator Tables

VA - Non-Residential Midstream Energy Efficiency Products Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Air-cooled Chiller	Total Participants	0	1	1	1	3
Installed kWh/year	Air-cooled Chiller	Total Gross Energy Savings (kWh/yr)	0	21,139	338,533	8,616	368,288
	Air-cooled Chiller	Realization Rate	N/A	100%	100%	100%	100%
	Air-cooled Chiller	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Air-cooled Chiller	Net Adjusted Savings (kWh/yr)	0	19,025	304,680	7,755	331,459
	Air-cooled Chiller	Avg. Gross Savings per Participant (kWh/yr)	N/A	21,139	338,533	8,616	122,763
	Air-cooled Chiller	Avg. Net Savings per Participant (kWh/yr)	N/A	19,025	304,680	7,755	110,486
Installed Summer peak kW	Air-cooled Chiller	Total Gross Demand Reduction (kW)	0.0	70.2	1,646.4	8.5	1,725.1
	Air-cooled Chiller	Realization Rate	N/A	100%	100%	100%	100%
	Air-cooled Chiller	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Air-cooled Chiller	Net Adjusted Demand Reduction (kW)	0.0	63.2	1,481.7	7.7	1,552.6
	Air-cooled Chiller	Avg. Gross Demand Reduction per Participant (kW)	N/A	70.2	1,646.4	8.5	575.0
	Air-cooled Chiller	Avg. Net Demand Reduction per Participant (kW)	N/A	63.2	1,481.7	7.7	517.5
Installed Winter peak kW	Air-cooled Chiller	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Air-cooled Chiller	Realization Rate	-	N/A	N/A	N/A	N/A
	Air-cooled Chiller	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Air-cooled Chiller	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Air-cooled Chiller	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
	Air-cooled Chiller	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	0.0	-
Installed kWh/year	Air-source Heat Pump	Total Participants	0	0	0	6	6
	Air-source Heat Pump	Total Gross Energy Savings (kWh/yr)	0	0	0	222,054	222,054
	Air-source Heat Pump	Realization Rate	N/A	N/A	N/A	100%	100%
	Air-source Heat Pump	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Air-source Heat Pump	Net Adjusted Savings (kWh/yr)	0	0	0	199,849	199,849
	Air-source Heat Pump	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	37,009	37,009
	Air-source Heat Pump	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	33,308	33,308
Installed Summer peak kW	Air-source Heat Pump	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	40.4	40.4
	Air-source Heat Pump	Realization Rate	N/A	N/A	N/A	100%	100%
	Air-source Heat Pump	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Air-source Heat Pump	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	36.4	36.4
	Air-source Heat Pump	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	6.7	6.7
	Air-source Heat Pump	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	6.1	6.1
Installed Winter peak kW	Air-source Heat Pump	Total Gross Demand Reduction (kW)	-	-	-	48.6	48.6
	Air-source Heat Pump	Realization Rate	-	-	-	100%	100%
	Air-source Heat Pump	Net-To-Gross Rate	-	-	-	90%	90%
	Air-source Heat Pump	Net Adjusted Demand Reduction (kW)	-	-	-	43.7	43.7
	Air-source Heat Pump	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	8.1	8.1
	Air-source Heat Pump	Avg. Net Demand Reduction per Participant (kW)	-	-	-	7.3	7.3
Installed kWh/year	Combination Oven	Total Participants	0	1	1	9	11
	Combination Oven	Total Gross Energy Savings (kWh/yr)	0	8,112	4,056	135,114	147,282
	Combination Oven	Realization Rate	N/A	100%	100%	100%	100%
	Combination Oven	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Combination Oven	Net Adjusted Savings (kWh/yr)	0	7,300	3,650	121,603	132,554
	Combination Oven	Avg. Gross Savings per Participant (kWh/yr)	N/A	8,112	4,056	15,013	13,389
	Combination Oven	Avg. Net Savings per Participant (kWh/yr)	N/A	7,300	3,650	13,511	12,050
Installed Summer peak kW	Combination Oven	Total Gross Demand Reduction (kW)	0.0	2.8	1.4	33.6	37.8
	Combination Oven	Realization Rate	N/A	100%	100%	100%	100%
	Combination Oven	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Combination Oven	Net Adjusted Demand Reduction (kW)	0.0	2.5	1.2	30.2	34.0
	Combination Oven	Avg. Gross Demand Reduction per Participant (kW)	N/A	2.8	1.4	3.7	3.4
	Combination Oven	Avg. Net Demand Reduction per Participant (kW)	N/A	2.5	1.2	3.4	3.1
Installed Winter peak kW	Combination Oven	Total Gross Demand Reduction (kW)	-	2.8	1.4	33.6	37.8

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VA - Non-Residential Midstream Energy Efficiency Products Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Combination Oven	Realization Rate	-	100%	100%	100%	100%
	Combination Oven	Net-To-Gross Rate	-	90%	90%	90%	90%
	Combination Oven	Net Adjusted Demand Reduction (kW)	-	2.5	1.2	30.2	34.0
	Combination Oven	Avg. Gross Demand Reduction per Participant (kW)	-	2.8	1.4	3.7	3.4
	Combination Oven	Avg. Net Demand Reduction per Participant (kW)	-	2.5	1.2	3.4	3.1
	Commercial Freezer/Refrigerator	Total Participants	0	5	96	56	157
Installed kWh/year	Commercial Freezer/Refrigerator	Total Gross Energy Savings (kWh/yr)	0	5,099	205,562	484,601	695,263
	Commercial Freezer/Refrigerator	Realization Rate	N/A	100%	100%	100%	100%
	Commercial Freezer/Refrigerator	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Commercial Freezer/Refrigerator	Net Adjusted Savings (kWh/yr)	0	4,589	185,006	436,141	625,736
	Commercial Freezer/Refrigerator	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,020	2,141	8,654	4,428
	Commercial Freezer/Refrigerator	Avg. Net Savings per Participant (kWh/yr)	N/A	918	1,927	7,788	3,986
Installed Summer peak kW	Commercial Freezer/Refrigerator	Total Gross Demand Reduction (kW)	0.0	0.7	27.0	63.7	91.4
	Commercial Freezer/Refrigerator	Realization Rate	N/A	100%	100%	100%	100%
	Commercial Freezer/Refrigerator	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Commercial Freezer/Refrigerator	Net Adjusted Demand Reduction (kW)	0.0	0.6	24.3	57.3	82.2
	Commercial Freezer/Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.1	0.3	1.1	0.6
	Commercial Freezer/Refrigerator	Avg. Net Demand Reduction per Participant (kW)	N/A	0.1	0.3	1.0	0.5
Installed Winter peak kW	Commercial Freezer/Refrigerator	Total Gross Demand Reduction (kW)	-	0.7	27.0	63.7	91.4
	Commercial Freezer/Refrigerator	Realization Rate	-	100%	100%	100%	100%
	Commercial Freezer/Refrigerator	Net-To-Gross Rate	-	90%	90%	90%	90%
	Commercial Freezer/Refrigerator	Net Adjusted Demand Reduction (kW)	-	0.6	24.3	57.3	82.2
	Commercial Freezer/Refrigerator	Avg. Gross Demand Reduction per Participant (kW)	-	0.1	0.3	1.1	0.6
	Commercial Freezer/Refrigerator	Avg. Net Demand Reduction per Participant (kW)	-	0.1	0.3	1.0	0.5
Installed kWh/year	Convection Oven	Total Participants	0	1	16	13	30
	Convection Oven	Total Gross Energy Savings (kWh/yr)	0	1,027	18,477	50,088	69,592
	Convection Oven	Realization Rate	N/A	100%	100%	100%	100%
	Convection Oven	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Convection Oven	Net Adjusted Savings (kWh/yr)	0	924	16,629	45,080	62,633
	Convection Oven	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,027	1,155	3,853	2,320
	Convection Oven	Avg. Net Savings per Participant (kWh/yr)	N/A	924	1,039	3,468	2,088
Installed Summer peak kW	Convection Oven	Total Gross Demand Reduction (kW)	0.0	0.4	6.3	12.5	19.1
	Convection Oven	Realization Rate	N/A	100%	100%	100%	100%
	Convection Oven	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Convection Oven	Net Adjusted Demand Reduction (kW)	0.0	0.3	5.7	11.2	17.2
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.4	0.4	1.0	0.6
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.4	0.9	0.6
Installed Winter peak kW	Convection Oven	Total Gross Demand Reduction (kW)	-	0.4	6.3	12.5	19.1
	Convection Oven	Realization Rate	-	100%	100%	100%	100%
	Convection Oven	Net-To-Gross Rate	-	90%	90%	90%	90%
	Convection Oven	Net Adjusted Demand Reduction (kW)	-	0.3	5.7	11.2	17.2
	Convection Oven	Avg. Gross Demand Reduction per Participant (kW)	-	0.4	0.4	1.0	0.6
	Convection Oven	Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.4	0.9	0.6
Installed kWh/year	Ductless Minisplit HP	Total Participants	0	0	0	5	5
	Ductless Minisplit HP	Total Gross Energy Savings (kWh/yr)	0	0	0	111,434	111,434
	Ductless Minisplit HP	Realization Rate	N/A	N/A	N/A	100%	100%
	Ductless Minisplit HP	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Ductless Minisplit HP	Net Adjusted Savings (kWh/yr)	0	0	0	100,291	100,291
	Ductless Minisplit HP	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	22,287	22,287
	Ductless Minisplit HP	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	20,058	20,058
Installed Summer peak kW	Ductless Minisplit HP	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	3.4	3.4
	Ductless Minisplit HP	Realization Rate	N/A	N/A	N/A	100%	100%



VA - Non-Residential Midstream Energy Efficiency Products Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Ductless Minisplit HP	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Ductless Minisplit HP	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	3.1	3.1
	Ductless Minisplit HP	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.7	0.7
	Ductless Minisplit HP	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.6	0.6
Installed Winter peak kW	Ductless Minisplit HP	Total Gross Demand Reduction (kW)	-	-	-	45.6	45.6
	Ductless Minisplit HP	Realization Rate	-	-	-	100%	100%
	Ductless Minisplit HP	Net-To-Gross Rate	-	-	-	90%	90%
	Ductless Minisplit HP	Net Adjusted Demand Reduction (kW)	-	-	-	41.1	41.1
	Ductless Minisplit HP	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	9.1	9.1
	Ductless Minisplit HP	Avg. Net Demand Reduction per Participant (kW)	-	-	-	8.2	8.2
	Electric Fryer	Total Participants	0	0	2	5	7
Installed kWh/year	Electric Fryer	Total Gross Energy Savings (kWh/yr)	0	0	4,912	16,527	21,440
	Electric Fryer	Realization Rate	N/A	N/A	100%	100%	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Electric Fryer	Net Adjusted Savings (kWh/yr)	0	0	4,421	14,875	19,296
	Electric Fryer	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	2,456	3,305	3,063
	Electric Fryer	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	2,211	2,975	2,757
Installed Summer peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	0.0	0.0	1.0	3.9	4.9
	Electric Fryer	Realization Rate	N/A	N/A	100%	100%	100%
	Electric Fryer	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Electric Fryer	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.9	3.5	4.4
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.5	0.8	0.7
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.4	0.7	0.6
Installed Winter peak kW	Electric Fryer	Total Gross Demand Reduction (kW)	-	-	1.0	3.9	4.9
	Electric Fryer	Realization Rate	-	-	100%	100%	100%
	Electric Fryer	Net-To-Gross Rate	-	-	90%	90%	90%
	Electric Fryer	Net Adjusted Demand Reduction (kW)	-	-	0.9	3.5	4.4
	Electric Fryer	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.5	0.8	0.7
	Electric Fryer	Avg. Net Demand Reduction per Participant (kW)	-	-	0.4	0.7	0.6
	Griddle	Total Participants	0	0	0	1	1
Installed kWh/year	Griddle	Total Gross Energy Savings (kWh/yr)	0	0	0	2,585	2,585
	Griddle	Realization Rate	N/A	N/A	N/A	100%	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Griddle	Net Adjusted Savings (kWh/yr)	0	0	0	2,327	2,327
	Griddle	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	2,585	2,585
	Griddle	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	2,327	2,327
Installed Summer peak kW	Griddle	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.6	0.6
	Griddle	Realization Rate	N/A	N/A	N/A	100%	100%
	Griddle	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Griddle	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.6	0.6
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.6	0.6
	Griddle	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.6	0.6
Installed Winter peak kW	Griddle	Total Gross Demand Reduction (kW)	-	-	-	0.6	0.6
	Griddle	Realization Rate	-	-	-	100%	100%
	Griddle	Net-To-Gross Rate	-	-	-	90%	90%
	Griddle	Net Adjusted Demand Reduction (kW)	-	-	-	0.6	0.6
	Griddle	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.6	0.6
	Griddle	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.6	0.6
	Holding Cabinet	Total Participants	0	0	6	14	20
Installed kWh/year	Holding Cabinet	Total Gross Energy Savings (kWh/yr)	0	0	85,978	206,607	292,585
	Holding Cabinet	Realization Rate	N/A	N/A	100%	100%	100%
	Holding Cabinet	Net-To-Gross Rate	N/A	N/A	90%	90%	90%



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VA - Non-Residential Midstream Energy Efficiency Products Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Holding Cabinet	Net Adjusted Savings (kWh/yr)	0	0	77,380	185,946	263,326
	Holding Cabinet	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	14,330	14,758	14,629
	Holding Cabinet	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	12,897	13,282	13,166
Installed Summer peak kW	Holding Cabinet	Total Gross Demand Reduction (kW)	0.0	0.0	15.7	51.4	67.1
	Holding Cabinet	Realization Rate	N/A	N/A	100%	100%	100%
	Holding Cabinet	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Holding Cabinet	Net Adjusted Demand Reduction (kW)	0.0	0.0	14.1	46.2	60.4
	Holding Cabinet	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	2.6	3.7	3.4
	Holding Cabinet	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.4	3.3	3.0
Installed Winter peak kW	Holding Cabinet	Total Gross Demand Reduction (kW)	-	-	15.7	51.4	67.1
	Holding Cabinet	Realization Rate	-	-	100%	100%	100%
	Holding Cabinet	Net-To-Gross Rate	-	-	90%	90%	90%
	Holding Cabinet	Net Adjusted Demand Reduction (kW)	-	-	14.1	46.2	60.4
	Holding Cabinet	Avg. Gross Demand Reduction per Participant (kW)	-	-	2.6	3.7	3.4
	Holding Cabinet	Avg. Net Demand Reduction per Participant (kW)	-	-	2.4	3.3	3.0
Installed kWh/year	Steam Cooker	Total Participants	0	2	6	6	14
	Steam Cooker	Total Gross Energy Savings (kWh/yr)	0	29,741	99,198	174,086	303,025
	Steam Cooker	Realization Rate	N/A	100%	100%	100%	100%
	Steam Cooker	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Steam Cooker	Net Adjusted Savings (kWh/yr)	0	26,767	89,278	156,678	272,722
	Steam Cooker	Avg. Gross Savings per Participant (kWh/yr)	N/A	14,870	16,533	29,014	21,645
	Steam Cooker	Avg. Net Savings per Participant (kWh/yr)	N/A	13,383	14,880	26,113	19,480
Installed Summer peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	0.0	7.4	22.6	43.3	73.3
	Steam Cooker	Realization Rate	N/A	100%	100%	100%	100%
	Steam Cooker	Net-To-Gross Rate	N/A	90%	90%	90%	90%
	Steam Cooker	Net Adjusted Demand Reduction (kW)	0.0	6.7	20.4	39.0	66.0
	Steam Cooker	Avg. Gross Demand Reduction per Participant (kW)	N/A	3.7	3.8	7.2	5.2
	Steam Cooker	Avg. Net Demand Reduction per Participant (kW)	N/A	3.3	3.4	6.5	4.7
Installed Winter peak kW	Steam Cooker	Total Gross Demand Reduction (kW)	-	7.4	22.6	43.3	73.3
	Steam Cooker	Realization Rate	-	100%	100%	100%	100%
	Steam Cooker	Net-To-Gross Rate	-	90%	90%	90%	90%
	Steam Cooker	Net Adjusted Demand Reduction (kW)	-	6.7	20.4	39.0	66.0
	Steam Cooker	Avg. Gross Demand Reduction per Participant (kW)	-	3.7	3.8	7.2	5.2
	Steam Cooker	Avg. Net Demand Reduction per Participant (kW)	-	3.3	3.4	6.5	4.7
Installed kWh/year	Unitary AC	Total Participants	0	0	1	16	17
	Unitary AC	Total Gross Energy Savings (kWh/yr)	0	0	3,301	63,121	66,422
	Unitary AC	Realization Rate	N/A	N/A	100%	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Unitary AC	Net Adjusted Savings (kWh/yr)	0	0	2,971	56,809	59,780
	Unitary AC	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	3,301	3,945	3,907
	Unitary AC	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	2,971	3,551	3,516
Installed Summer peak kW	Unitary AC	Total Gross Demand Reduction (kW)	0.0	0.0	1.0	66.5	67.5
	Unitary AC	Realization Rate	N/A	N/A	100%	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Unitary AC	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.9	59.9	60.8
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.0	4.2	4.0
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.9	3.7	3.6
Installed Winter peak kW	Unitary AC	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0
	Unitary AC	Realization Rate	-	-	N/A	N/A	N/A
	Unitary AC	Net-To-Gross Rate	-	-	N/A	N/A	N/A
	Unitary AC	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	-





VA - Non-Residential Midstream Energy Efficiency Products Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	-
	Water-cooled Chiller	Total Participants	0	0	8	4	12
Installed kWh/year	Water-cooled Chiller	Total Gross Energy Savings (kWh/yr)	0	0	864,770	745,526	1,610,295
	Water-cooled Chiller	Realization Rate	N/A	N/A	100%	100%	100%
	Water-cooled Chiller	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Water-cooled Chiller	Net Adjusted Savings (kWh/yr)	0	0	778,293	670,973	1,449,266
	Water-cooled Chiller	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	108,096	186,381	134,191
	Water-cooled Chiller	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	97,287	167,743	120,772
Installed Summer peak kW	Water-cooled Chiller	Total Gross Demand Reduction (kW)	0.0	0.0	235.9	293.6	529.5
	Water-cooled Chiller	Realization Rate	N/A	N/A	100%	100%	100%
	Water-cooled Chiller	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	Water-cooled Chiller	Net Adjusted Demand Reduction (kW)	0.0	0.0	212.3	264.2	476.6
	Water-cooled Chiller	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	29.5	73.4	44.1
	Water-cooled Chiller	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	26.5	66.1	39.7
Installed Winter peak kW	Water-cooled Chiller	Total Gross Demand Reduction (kW)	-	-	0.0	0.0	0.0
	Water-cooled Chiller	Realization Rate	-	-	N/A	N/A	N/A
	Water-cooled Chiller	Net-To-Gross Rate	-	-	N/A	N/A	N/A
	Water-cooled Chiller	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0	0.0
	Water-cooled Chiller	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	0.0	-
	Water-cooled Chiller	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	0.0	-

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J.27.4 2020–2023 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) Comparison of Savings to Usage by Rate Schedule

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
CEEP	-1	Not Available	17336.14776	12780.89455	1.356411141	Not Available	Not Available

J.27.5 2020–2023 Virginia Non-Residential Midstream Energy Efficiency Products Program (Phase VIII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Non-Residential Midstream Energy Efficiency Products	2019	VA	PUR-2019-00201	1.02	2.49	1.12	1.00
8	Non-Residential Midstream Energy Efficiency Products	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Non-Residential Midstream Energy Efficiency Products	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Non-Residential Midstream Energy Efficiency Products	2022	VA	PUR-2022-00210	0.97	1.15	0.49	0.51
8	Non-Residential Midstream Energy Efficiency Products	2023	VA	PUR-2023-00217	1.62	3.92	1.68	1.11
8	Non-Residential Midstream Energy Efficiency Products	2024	VA	EM&V Report	2.17	4.67	2.03	0.94



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J.28 Virginia Non-Residential Multifamily Program (Phase VIII) 2020–2023

J.28.1 2020–2023 Virginia Non-Residential Multifamily Program (Phase VIII) Annual Indicator Tables

VA - Non-Residential Multifamily 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	\$28,431	\$201,595	\$173,987	\$310,611	\$714,624
Costs (\$)		Planned	\$0	\$394,826	\$504,682	\$488,523	\$1,388,032
Costs (\$)		Variance	\$28,431	-\$193,231	-\$330,695	-\$177,912	-\$673,408
		Annual % of Planned	N/A	51%	34%	64%	51%
Participants <sup>1</sup>		Total (Gross)	0	0	5	29	34
		Planned	0	1,100	1,725	1,725	4,550
		Variance	0	-1,100	-1,720	-1,696	-4,516
		Annual % of Planned (Gross)	N/A	0%	0%	2%	1%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	165,606	211,734	377,340
		Realization Rate Weighted by Measure	N/A	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	165,606	211,734	377,340
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	0	-16,561	-21,173	-37,734
		Net Adjusted Savings (kWh/yr)	0	0	149,045	190,561	339,606
		Planned Net Savings (kWh/yr)	0	1,881,505	2,950,541	2,950,541	7,782,587
		Annual % Toward Planned Net Savings	N/A	0%	5.05%	6.46%	4.36%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	33,121	7,301	11,098
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	29,809	6,571	9,988
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	18.2	4.1	22.4
		Realization Rate Weighted by Measure	N/A	N/A	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	0.0	18.2	4.1	22.4
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	0.0	-1.8	-0.4	-2.2
		Net Adjusted Demand Reduction (kW)	0.0	0.0	16.4	3.7	20.1
		Planned Net Savings (kW)	0.0	302.9	475.0	475.0	1,252.8
		Annual % Toward Planned Net Reduction	N/A	0%	3.46%	0.78%	1.61%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	3.6	0.1	0.7
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	3.3	0.1	0.6
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	18.3	7.0	25.3
		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)	-	-	18.3	7.0	25.3
		Net-To-Gross Rate Weighted by Measure	-	-	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-	-1.8	-0.7	-2.5
		Net Adjusted Demand Reduction (kW)	-	-	16.5	6.3	22.7
		Planned Net Savings (kW)	0.0	217.8	341.6	341.6	901.0
		Annual % Toward Planned Net Reduction	-	-	4.82%	1.84%	2.52%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	3.7	0.2	0.7
		Avg. Net Demand Reduction per Participant (kW)	-	-	3.3	0.2	0.7
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	\$3,586	\$1,145	\$1,145
		\$Admin. per kWh/year (Gross)	N/A	N/A	\$0	\$0	\$0
		\$Admin. per kW (Gross)	N/A	N/A	\$983	\$1,739	\$1,739
		\$EM&V per \$Total	94.0%	39.7%	40.1%	31.3%	31.3%
		\$Rebate per Participant (Gross)	N/A	N/A	\$671	\$4,075	\$4,075

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J.28.2 2023 Virginia Non-Residential Multifamily Program (Phase VIII) Monthly Indicator Table

VA - Non-Residential Multifamily 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)		\$993	\$738	\$543	\$955	\$1,516	\$1,092	\$948	\$1,276	\$2,370	\$1,914	\$7,639	\$1,006	\$20,987	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$14,697	\$10,890	\$8,038	\$14,130	\$22,430	\$16,168	\$14,027	\$18,884	\$35,073	\$28,325	\$113,057	\$14,893	\$310,611	
Costs (\$)	Planned		\$32,568	\$32,568	\$32,568	\$32,568	\$32,568	\$32,568	\$48,852	\$48,852	\$48,852	\$48,852	\$48,852	\$48,852	\$488,523	
Costs (\$)	Variance		-\$17,871	-\$21,678	-\$24,530	-\$18,438	-\$10,138	-\$16,401	-\$34,826	-\$29,968	-\$13,779	-\$20,528	\$64,204	-\$33,960	-\$177,912	
	Annual % of Planned		3.0%	5.2%	6.9%	9.8%	14.4%	17.7%	20.5%	24.4%	31.6%	37.4%	60.5%	63.6%	64%	
Participants <sup>1</sup>	Total (Gross)		1	0	0	0	1	0	0	0	1	23	3	0	29	
	Planned		152	143	143	143	143	143	143	143	143	143	143	143	1,725	
	Variance		-151	-143	-143	-143	-142	-143	-143	-143	-143	-142	-140	-143	-1,696	
	Annual % of Planned (Gross)		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	2%	2%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	5,446	0	0	0	8,700	20,239	0	0	77,955	10,444	88,948	0	211,734	
		Realization Rate Weighted by Measure	100%	N/A	N/A	N/A	100%	100%	N/A	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)	5,446	0	0	0	8,700	20,239	0	0	77,955	10,444	88,948	0	211,734	
		Net-To-Gross Rate Weighted by Measure	90%	N/A	N/A	N/A	90%	90%	N/A	N/A	90%	90%	90%	N/A	90%	
		Net-To-Gross Adjustment (kWh/yr)	-545	0	0	0	-870	-2,024	0	0	-7,798	-1,044	-8,895	0	-21,173	
		Net Adjusted Savings (kWh/yr)	4,902	0	0	0	7,830	18,215	0	0	70,160	9,400	80,054	0	190,561	
		Planned Net Savings (kWh/yr)	259,890	244,596	244,596	244,596	244,596	244,596	244,596	244,596	244,596	244,596	244,596	244,596	2,950,541	
		Annual % Toward Planned Net Savings	0.17%	0.17%	0.17%	0.17%	0.43%	1.05%	1.05%	1.05%	3.43%	3.75%	6.46%	6.46%	6.46%	
		Avg. Gross Savings per Participant (kWh/yr)	5,446	N/A	N/A	N/A	8,700	N/A	N/A	N/A	77,955	454	29,649	N/A	7,301	
		Avg. Net Savings per Participant (kWh/yr)	4,902	N/A	N/A	N/A	7,830	N/A	N/A	N/A	70,160	409	26,685	N/A	6,571	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.1	0.0	0.0	0.0	1.0	0.2	0.0	0.0	1.6	0.3	0.9	0.0	4.1	
		Realization Rate Weighted by Measure	100%	N/A	N/A	N/A	100%	100%	N/A	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)	0.1	0.0	0.0	0.0	1.0	0.2	0.0	0.0	1.6	0.3	0.9	0.0	4.1	
		Net-To-Gross Rate Weighted by Measure	90%	N/A	N/A	N/A	90%	90%	N/A	N/A	90%	90%	90%	N/A	90%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	0.0	-0.1	0.0	-0.4	
		Net Adjusted Demand Reduction (kW)	0.1	0.0	0.0	0.0	0.9	0.2	0.0	0.0	1.4	0.3	0.8	0.0	3.7	
		Planned Net Savings (kW)	41.9	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	475.0	
		Annual % Toward Planned Net Reduction	0.03%	0.03%	0.03%	0.03%	0.21%	0.25%	0.25%	0.25%	0.55%	0.61%	0.78%	0.78%	0.78%	
		Avg. Gross Demand Reduction per Participant (kW)	0.14	N/A	N/A	N/A	0.99	N/A	N/A	N/A	1.6	0.01	0.31	N/A	0.1	
		Avg. Net Demand Reduction per Participant (kW)	0.1	N/A	N/A	N/A	0.9	N/A	N/A	N/A	1.4	0.01	0.3	N/A	0.1	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.2	0.0	0.0	0.0	1.0	0.4	0.0	0.0	2.1	1.4	1.9	0.0	7.0	
		Realization Rate Weighted by Measure	100%	N/A	N/A	N/A	100%	100%	N/A	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)	0.2	0.0	0.0	0.0	1.0	0.4	0.0	0.0	2.1	1.4	1.9	0.0	7.0	
		Net-To-Gross Rate Weighted by Measure	90%	N/A	N/A	N/A	90%	90%	N/A	N/A	90%	90%	90%	N/A	90%	
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	-0.2	-0.1	-0.2	0.0	-0.7	
		Net Adjusted Demand Reduction (kW)	0.2	0.0	0.0	0.0	0.9	0.3	0.0	0.0	1.9	1.3	1.7	0.0	6.3	
		Planned Net Savings (kW)	30.1	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	341.6	
		Annual % Toward Planned Net Reduction	0.05%	0.05%	0.05%	0.05%	0.31%	0.40%	0.40%	0.40%	0.94%	1.33%	1.84%	1.84%	1.84%	
		Avg. Gross Demand Reduction per Participant (kW)	0.2	N/A	N/A	N/A	1.0	N/A	N/A	N/A	2.1	0.06	0.6	N/A	0.2	
		Avg. Net Demand Reduction per Participant (kW)	0.2	N/A	N/A	N/A	0.9	N/A	N/A	N/A	1.9	0.06	0.6	N/A	0.2	
Cumulative Annual Program Performance	\$Admin. per Participant (Gross)		\$3,154	\$3,277	\$3,367	\$3,526	\$3,239	\$3,395	\$3,530	\$3,713	\$3,545	\$977	\$1,115	\$1,145	\$1,145	
	\$Admin. per kWh/year (Gross)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	\$Admin. per kW (Gross)		\$1,029	\$1,069	\$1,089	\$1,151	\$1,170	\$1,214	\$1,263	\$1,328	\$1,342	\$1,411	\$1,694	\$1,739	\$1,739	
	\$EM&V per \$Total		39.7%	39.4%	38.7%	38.7%	39.2%	39.0%	39.1%	38.7%	37.1%	36.2%	31.1%	31.3%	31.3%	
	\$Rebate per Participant (Gross)		\$930	\$930	\$930	\$930	\$1,154	\$1,499	\$1,499	\$2,110	\$4,397	\$1,529	\$4,075	\$4,075	\$4,075	

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J.28.3 2020–2023 Virginia Non-Residential Multifamily Program (Phase VIII) Measure Indicator Tables

VA - Non-Residential Multifamily Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	LED Lamps	Total Participants	0	0	5	28	33
Installed kWh/year	LED Lamps	Total Gross Energy Savings (kWh/yr)	0	0	165,606	196,808	362,414
	LED Lamps	Realization Rate	N/A	N/A	100%	100%	100%
	LED Lamps	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	LED Lamps	Net Adjusted Savings (kWh/yr)	0	0	149,045	177,127	326,172
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	33,121	7,029	10,982
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	29,809	6,326	9,884
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	0.0	0.0	18.2	3.2	21.4
	LED Lamps	Realization Rate	N/A	N/A	100%	100%	100%
	LED Lamps	Net-To-Gross Rate	N/A	N/A	90%	90%	90%
	LED Lamps	Net Adjusted Demand Reduction (kW)	0.0	0.0	16.4	2.9	19.3
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	3.6	0.1	0.6
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	3.3	0.1	0.6
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	-	18.3	6.0	24.3
	LED Lamps	Realization Rate	-	-	100%	100%	100%
	LED Lamps	Net-To-Gross Rate	-	-	90%	90%	90%
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	-	16.5	5.4	21.9
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	3.7	0.2	0.7
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	3.3	0.2	0.7
	Occupancy Sensors	Total Participants	0	0	0	1	1
Installed kWh/year	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	0	0	0	14,926	14,926
	Occupancy Sensors	Realization Rate	N/A	N/A	N/A	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	0	0	0	13,434	13,434
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	14,926	14,926
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	13,434	13,434
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.9	0.9
	Occupancy Sensors	Realization Rate	N/A	N/A	N/A	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.8	0.8
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.9	0.9
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.8	0.8
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	-	-	0.9	0.9
	Occupancy Sensors	Realization Rate	-	-	-	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	-	-	-	90%	90%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	-	-	0.8	0.8
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.9	0.9
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.8	0.8

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**J.28.4 2020–2023 Virginia Non-Residential Multifamily Program (Phase VIII) Comparison of Savings to Usage by Rate Schedule**

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
CMFP	110	Schedule GS-1	5745.266961	1710.458758	3.358904114	25717.7424	0.223397018
CMFP	193	Schedule 27	5674.666725	1710.458758	3.3176285	2047.719024	2.77121356
CMFP	227	Schedule GS-2	41829.62892	1710.458758	24.45521046	329494.9816	0.126950731
CMFP	All Codes	All Rates	9988.409537	1710.458758	5.839608519	Not Available	Not Available

**J.28.5 2020–2023 Virginia Non-Residential Multifamily Program (Phase VIII) Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Non-Residential Multifamily	2019	VA	PUR-2019-00201	3.89	3.57	2.12	0.59
8	Non-Residential Multifamily	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Non-Residential Multifamily	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Non-Residential Multifamily	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
8	Non-Residential Multifamily	2023	VA	PUR-2023-00217	4.76	1.77	1.39	0.41
8	Non-Residential Multifamily	2024	VA	EM&V Report	4.42	2.11	1.68	0.48

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**J.29 Virginia Non-Residential New Construction Program (Phase VIII)  
2020–2023**

**J.29.1 2020-2023 Virginia Non-Residential New Construction  
Program (Phase VIII) Annual Indicator Tables**

VA - Non-Residential New Construction 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	\$27,624	\$603,899	\$477,704	\$2,241,471	\$3,350,697
Costs (\$)		Planned	\$0	\$1,139,214	\$1,153,721	\$2,857,669	\$5,150,605
Costs (\$)		Variance	\$27,624	-\$535,315	-\$676,017	-\$616,198	-\$1,799,907
		Annual % of Planned	N/A	53%	41%	78%	65%
Participants <sup>1</sup>		Total (Gross)	0	0	0	8	8
		Planned	0	19	47	94	160
		Variance	0	-19	-47	-86	-152
		Annual % of Planned (Gross)	N/A	0%	0%	9%	5%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	28,749,726	28,749,726
		Realization Rate Weighted by Measure	N/A	N/A	N/A	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	28,749,726	28,749,726
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	-2,874,973	-2,874,973
		Net Adjusted Savings (kWh/yr)	0	0	0	25,874,754	25,874,754
		Planned Net Savings (kWh/yr)	0	927,828	2,295,154	4,590,309	7,813,292
		Annual % Toward Planned Net Savings	N/A	0%	0%	563.7%	331.2%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	3,593,716	3,593,716
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	3,234,344	3,234,344
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	3,216.2	3,216.2
		Realization Rate Weighted by Measure	N/A	N/A	N/A	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	0.0	0.0	3,216.2	3,216.2
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	-321.6	-321.6
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	2,894.6	2,894.6
		Planned Net Savings (kW)	0.0	247.8	612.9	1,225.8	2,086.4
		Annual % Toward Planned Net Reduction	N/A	0%	0%	236.1%	138.7%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	402.0	402.0
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	361.8	361.8
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	-	-	3,611.1	3,611.1
		Realization Rate Weighted by Measure	-	-	-	100%	100%
		Realization Rate Adjustment (kW)	-	-	-	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	-	-	3,611.1	3,611.1
		Net-To-Gross Rate Weighted by Measure	-	-	-	90%	90%
		Net-To-Gross Adjustment (kW)	-	-	-	-361.1	-361.1
		Net Adjusted Demand Reduction (kW)	-	-	-	3,250.0	3,250.0
		Planned Net Savings (kW)	0.0	280.0	692.7	1,385.3	2,358.0
		Annual % Toward Planned Net Reduction	-	-	-	234.6%	137.8%
		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	451.4	451.4
		Avg. Net Demand Reduction per Participant (kW)	-	-	-	406.2	406.2
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	\$25,111	\$25,111
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	N/A	N/A	\$62	\$62
		\$EM&V per \$Total	85.1%	11.8%	8.5%	5.1%	5.1%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	\$178,832	\$178,832

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J.29.2 2023 Virginia Non-Residential New Construction Program (Phase VIII) Monthly Indicator Tables

VA - Non-Residential New Construction 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)		\$2,763	\$4,634	\$3,013	\$2,853	\$3,672	\$3,638	\$5,828	\$11,937	\$10,225	\$87,516	\$3,367	\$12,004	\$151,450	
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$40,894	\$68,683	\$44,594	\$42,229	\$54,348	\$53,847	\$86,248	\$176,670	\$151,329	\$1,285,238	\$49,837	\$177,854	\$2,241,471	
Costs (\$)	Planned		\$190,511	\$190,511	\$190,511	\$190,511	\$190,511	\$190,511	\$285,767	\$285,767	\$285,767	\$285,767	\$285,767	\$285,767	\$2,857,669	
Costs (\$)	Variance		-\$149,618	-\$121,828	-\$145,917	-\$148,282	-\$136,163	-\$136,664	-\$199,519	-\$109,097	-\$134,438	\$1,009,471	-\$235,930	-\$108,113	-\$616,198	
	Annual % of Planned		1.4%	3.8%	5.4%	6.9%	8.8%	10.7%	13.7%	19.9%	25.2%	70.6%	72.2%	78.4%	78%	
Participants <sup>1</sup>	Total (Gross)		0	3	1	0	0	0	1	0	1	1	0	1	8	
	Planned		17	7	7	7	7	7	7	7	7	7	7	7	94	
	Variance		-17	-4	-6	-7	-7	-7	-6	-7	-6	-6	-7	-6	-86	
	Annual % of Planned (Gross)		0%	3%	4%	4%	4%	4%	5%	5%	6%	7%	7%	9%	9%	
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	160,227	973,055	0	0	0	341,334	0	963,874	26,276,728	0	34,509	28,749,726	
		Realization Rate Weighted by Measure	N/A	100%	100%	N/A	N/A	N/A	100%	N/A	100%	100%	N/A	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)	0	160,227	973,055	0	0	0	341,334	0	963,874	26,276,728	0	34,509	28,749,726	
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	N/A	N/A	N/A	90%	N/A	90%	90%	N/A	90%	90%	
		Net-To-Gross Adjustment (kWh/yr)	0	-16,023	-97,306	0	0	0	-34,133	0	-96,387	-2,627,673	0	-3,451	-2,874,973	
		Net Adjusted Savings (kWh/yr)	0	144,204	875,750	0	0	0	307,201	0	867,487	23,649,055	0	31,058	25,874,754	
		Planned Net Savings (kWh/yr)	830,162	341,832	341,832	341,832	341,832	341,832	341,832	341,832	341,832	341,832	341,832	341,832	4,590,309	
		Annual % Toward Planned Net Savings	0%	3.14%	22.2%	22.2%	22.2%	22.2%	28.9%	28.9%	47.8%	563.0%	563.0%	563.7%	563.7%	
		Avg. Gross Savings per Participant (kWh/yr)	N/A	53,409	973,055	N/A	N/A	N/A	341,334	N/A	963,874	26,276,728	N/A	34,509	3,593,716	
		Avg. Net Savings per Participant (kWh/yr)	N/A	48,068	876,750	N/A	N/A	N/A	307,201	N/A	867,487	23,649,055	N/A	31,058	3,234,344	
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	23.4	274.6	0.0	0.0	0.0	80.9	0.0	339.1	2,489.5	0.0	8.8	3,216.2	
		Realization Rate Weighted by Measure	N/A	100%	100%	N/A	N/A	N/A	100%	N/A	100%	100%	N/A	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)	0.0	23.4	274.6	0.0	0.0	0.0	80.9	0.0	339.1	2,489.5	0.0	8.8	3,216.2	
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	N/A	N/A	N/A	90%	N/A	90%	90%	N/A	90%	90%	
		Net-To-Gross Adjustment (kW)	0.0	-2.3	-27.5	0.0	0.0	0.0	-8.1	0.0	-33.9	-248.9	0.0	-0.9	-321.6	
		Net Adjusted Demand Reduction (kW)	0.0	21.0	247.1	0.0	0.0	0.0	72.8	0.0	305.2	2,240.5	0.0	7.9	2,894.6	
		Planned Net Savings (kW)	221.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	1,225.8	
		Annual % Toward Planned Net Reduction	0%	1.72%	21.9%	21.9%	21.9%	21.9%	27.8%	27.8%	52.7%	235.5%	235.5%	236.1%	236.1%	
		Avg. Gross Demand Reduction per Participant (kW)	N/A	7.8	274.6	N/A	N/A	N/A	80.9	N/A	339.1	2,489.5	N/A	8.8	402.0	
		Avg. Net Demand Reduction per Participant (kW)	N/A	7.0	247.1	N/A	N/A	N/A	72.8	N/A	305.2	2,240.5	N/A	7.9	361.8	
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	16.6	162.2	0.0	0.0	0.0	64.9	0.0	108.8	3,257.2	0.0	1.4	3,611.1	
		Realization Rate Weighted by Measure	-	100%	100%	N/A	N/A	N/A	100%	N/A	100%	100%	N/A	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	
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	16.6	162.2	0.0	0.0	0.0	64.9	0.0	108.8	3,257.2	0.0	1.4	3,611.1	
		Net-To-Gross Rate Weighted by Measure	-	90%	90%	N/A	N/A	N/A	90%	N/A	90%	90%	N/A	90%	90%	
		Net-To-Gross Adjustment (kW)	-	-1.7	-16.2	0.0	0.0	0.0	-6.5	0.0	-10.9	-325.7	0.0	-0.1	-361.1	
		Net Adjusted Demand Reduction (kW)	-	14.9	146.0	0.0	0.0	0.0	58.4	0.0	97.9	2,931.5	0.0	1.3	3,250.0	
		Planned Net Savings (kW)	250.5	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	1,385.3	
		Annual % Toward Planned Net Reduction	-	1.08%	11.6%	11.6%	11.6%	11.6%	15.8%	15.8%	22.9%	234.5%	234.5%	234.6%	234.6%	
		Avg. Gross Demand Reduction per Participant (kW)	-	5.5	162.2	N/A	N/A	N/A	64.9	N/A	108.8	3,257.2	N/A	1.4	451.4	
		Avg. Net Demand Reduction per Participant (kW)	-	5.0	146.0	N/A	N/A	N/A	58.4	N/A	97.9	2,931.5	N/A	1.3	406.2	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$18,946	\$14,963	\$16,676	\$16,594	\$17,504	\$15,168	\$17,556	\$16,334	\$26,503	\$26,984	\$25,111	\$25,111	
		\$Admin. per kWh/year (Gross)	N/A	\$0	\$0.06	\$0.06	\$0.06	\$0.06	\$0.05	\$0.06	\$0.04	\$0.01	\$0.01	\$0.01	\$0.01	
		\$Admin. per kW (Gross)	N/A	\$2,432	\$201	\$210	\$223	\$235	\$200	\$232	\$137	\$58	\$59	\$62	\$62	
		\$EM&V per \$Total	8.2%	7.8%	7.7%	7.6%	8.2%	8.8%	8.9%	8.4%	8.0%	5.0%	5.1%	5.1%	5.1%	
		\$Rebate per Participant (Gross)	N/A	\$6,409	\$4,807	\$4,807	\$4,807	\$4,807	\$4,807	\$10,672	\$34,025	\$44,419	\$203,788	\$203,788	\$178,832	

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J.29.3 2020–2023 Virginia Non-Residential New Construction Program (Phase VIII) Measure Indicator Tables

VA - Non-Residential New Construction Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed kWh/year	Chiller Controls	Total Participants	0	0	0	2	2
	Chiller Controls	Total Gross Energy Savings (kWh/yr)	0	0	0	24,557,651	24,557,651
	Chiller Controls	Realization Rate	N/A	N/A	N/A	100%	100%
	Chiller Controls	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Chiller Controls	Net Adjusted Savings (kWh/yr)	0	0	0	22,101,886	22,101,886
	Chiller Controls	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	12,278,825	12,278,825
	Chiller Controls	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	11,050,943	11,050,943
Installed Summer peak kW	Chiller Controls	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	2,083.1	2,083.1
	Chiller Controls	Realization Rate	N/A	N/A	N/A	100%	100%
	Chiller Controls	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Chiller Controls	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1,874.8	1,874.8
	Chiller Controls	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	1,041.5	1,041.5
	Chiller Controls	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	937.4	937.4
	Installed Winter peak kW	Chiller Controls	Total Gross Demand Reduction (kW)	-	-	-	2,189.3
Chiller Controls		Realization Rate	-	-	-	100%	100%
Chiller Controls		Net-To-Gross Rate	-	-	-	90%	90%
Chiller Controls		Net Adjusted Demand Reduction (kW)	-	-	-	1,970.3	1,970.3
Chiller Controls		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	1,094.6	1,094.6
Chiller Controls		Avg. Net Demand Reduction per Participant (kW)	-	-	-	985.2	985.2
Installed kWh/year		Demand Controlled Ventilation/CO2 Controls	Total Participants	0	0	0	1
	Demand Controlled Ventilation/CO2 Controls	Total Gross Energy Savings (kWh/yr)	0	0	0	562	562
	Demand Controlled Ventilation/CO2 Controls	Realization Rate	N/A	N/A	N/A	100%	100%
	Demand Controlled Ventilation/CO2 Controls	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Demand Controlled Ventilation/CO2 Controls	Net Adjusted Savings (kWh/yr)	0	0	0	506	506
	Demand Controlled Ventilation/CO2 Controls	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	562	562
	Demand Controlled Ventilation/CO2 Controls	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	506	506
Installed Summer peak kW	Demand Controlled Ventilation/CO2 Controls	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	1.3	1.3
	Demand Controlled Ventilation/CO2 Controls	Realization Rate	N/A	N/A	N/A	100%	100%
	Demand Controlled Ventilation/CO2 Controls	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Demand Controlled Ventilation/CO2 Controls	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1.2	1.2
	Demand Controlled Ventilation/CO2 Controls	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	1.3	1.3
	Demand Controlled Ventilation/CO2 Controls	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	1.2	1.2
	Installed Winter peak kW	Demand Controlled Ventilation/CO2 Controls	Total Gross Demand Reduction (kW)	-	-	-	0.0
Demand Controlled Ventilation/CO2 Controls		Realization Rate	-	-	-	N/A	N/A
Demand Controlled Ventilation/CO2 Controls		Net-To-Gross Rate	-	-	-	N/A	N/A
Demand Controlled Ventilation/CO2 Controls		Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0
Demand Controlled Ventilation/CO2 Controls		Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	-
Demand Controlled Ventilation/CO2 Controls		Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	-
Installed kWh/year		High Efficiency and Variable Speed Packaged DX Cooling Equipment	Total Participants	0	0	0	1
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Total Gross Energy Savings (kWh/yr)	0	0	0	178,928	178,928
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Realization Rate	N/A	N/A	N/A	100%	100%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net Adjusted Savings (kWh/yr)	0	0	0	161,035	161,035
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	178,928	178,928
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	161,035	161,035
Installed Summer peak kW	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	47.9	47.9
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Realization Rate	N/A	N/A	N/A	100%	100%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	43.1	43.1
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	47.9	47.9
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	43.1	43.1
	Installed Winter peak kW	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Total Gross Demand Reduction (kW)	-	-	-	31.2

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VA - Non-Residential New Construction Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Realization Rate	-	-	-	100%	100%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net-To-Gross Rate	-	-	-	90%	90%
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Net Adjusted Demand Reduction (kW)	-	-	-	28.1	28.1
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	31.2	31.2
	High Efficiency and Variable Speed Packaged DX Cooling Equipment	Avg. Net Demand Reduction per Participant (kW)	-	-	-	28.1	28.1
	High Efficiency DX Cooling Equipment	Total Participants	0	0	0	5	5
Installed kWh/year	High Efficiency DX Cooling Equipment	Total Gross Energy Savings (kWh/yr)	0	0	0	766,024	766,024
	High Efficiency DX Cooling Equipment	Realization Rate	N/A	N/A	N/A	100%	100%
	High Efficiency DX Cooling Equipment	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Efficiency DX Cooling Equipment	Net Adjusted Savings (kWh/yr)	0	0	0	689,422	689,422
	High Efficiency DX Cooling Equipment	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	153,205	153,205
	High Efficiency DX Cooling Equipment	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	137,884	137,884
Installed Summer peak kW	High Efficiency DX Cooling Equipment	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	289.1	289.1
	High Efficiency DX Cooling Equipment	Realization Rate	N/A	N/A	N/A	100%	100%
	High Efficiency DX Cooling Equipment	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Efficiency DX Cooling Equipment	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	260.2	260.2
	High Efficiency DX Cooling Equipment	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	57.8	57.8
	High Efficiency DX Cooling Equipment	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	52.0	52.0
Installed Winter peak kW	High Efficiency DX Cooling Equipment	Total Gross Demand Reduction (kW)	-	-	-	64.3	64.3
	High Efficiency DX Cooling Equipment	Realization Rate	-	-	-	100%	100%
	High Efficiency DX Cooling Equipment	Net-To-Gross Rate	-	-	-	90%	90%
	High Efficiency DX Cooling Equipment	Net Adjusted Demand Reduction (kW)	-	-	-	57.9	57.9
	High Efficiency DX Cooling Equipment	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	12.9	12.9
	High Efficiency DX Cooling Equipment	Avg. Net Demand Reduction per Participant (kW)	-	-	-	11.6	11.6
Installed kWh/year	High Efficiency Packaged Air-Source Heat Pumps	Total Participants	0	0	0	0	0
	High Efficiency Packaged Air-Source Heat Pumps	Total Gross Energy Savings (kWh/yr)	0	0	0	0	0
	High Efficiency Packaged Air-Source Heat Pumps	Realization Rate	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net Adjusted Savings (kWh/yr)	0	0	0	0	0
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A	N/A
Installed Summer peak kW	High Efficiency Packaged Air-Source Heat Pumps	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	High Efficiency Packaged Air-Source Heat Pumps	Realization Rate	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A	N/A
Installed Winter peak kW	High Efficiency Packaged Air-Source Heat Pumps	Total Gross Demand Reduction (kW)	-	-	-	-	0.0
	High Efficiency Packaged Air-Source Heat Pumps	Realization Rate	-	-	-	-	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net-To-Gross Rate	-	-	-	-	N/A
	High Efficiency Packaged Air-Source Heat Pumps	Net Adjusted Demand Reduction (kW)	-	-	-	-	0.0
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-	-
	High Efficiency Packaged Air-Source Heat Pumps	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-	-
Installed kWh/year	High Performance Interior Lighting	Total Participants	0	0	0	8	8
	High Performance Interior Lighting	Total Gross Energy Savings (kWh/yr)	0	0	0	3,144,270	3,144,270
	High Performance Interior Lighting	Realization Rate	N/A	N/A	N/A	100%	100%
	High Performance Interior Lighting	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Performance Interior Lighting	Net Adjusted Savings (kWh/yr)	0	0	0	2,829,843	2,829,843
	High Performance Interior Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	393,034	393,034
	High Performance Interior Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	353,730	353,730
Installed Summer peak kW	High Performance Interior Lighting	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	793.3	793.3
	High Performance Interior Lighting	Realization Rate	N/A	N/A	N/A	100%	100%



VA - Non-Residential New Construction Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	High Performance Interior Lighting	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	High Performance Interior Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	714.0	714.0
	High Performance Interior Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	99.2	99.2
	High Performance Interior Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	89.2	89.2
Installed Winter peak kW	High Performance Interior Lighting	Total Gross Demand Reduction (kW)	-	-	-	1,326.0	1,326.0
	High Performance Interior Lighting	Realization Rate	-	-	-	100%	100%
	High Performance Interior Lighting	Net-To-Gross Rate	-	-	-	90%	90%
	High Performance Interior Lighting	Net Adjusted Demand Reduction (kW)	-	-	-	1,193.4	1,193.4
	High Performance Interior Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	165.8	165.8
	High Performance Interior Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	-	149.2	149.2
	LED Exterior Lighting	Total Participants	0	0	0	5	5
Installed kWh/year	LED Exterior Lighting	Total Gross Energy Savings (kWh/yr)	0	0	0	96,648	96,648
	LED Exterior Lighting	Realization Rate	N/A	N/A	N/A	100%	100%
	LED Exterior Lighting	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	LED Exterior Lighting	Net Adjusted Savings (kWh/yr)	0	0	0	86,983	86,983
	LED Exterior Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	19,330	19,330
	LED Exterior Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	17,397	17,397
Installed Summer peak kW	LED Exterior Lighting	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	LED Exterior Lighting	Realization Rate	N/A	N/A	N/A	N/A	N/A
	LED Exterior Lighting	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	LED Exterior Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	LED Exterior Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0
	LED Exterior Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.0	0.0
Installed Winter peak kW	LED Exterior Lighting	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0
	LED Exterior Lighting	Realization Rate	-	-	-	N/A	N/A
	LED Exterior Lighting	Net-To-Gross Rate	-	-	-	N/A	N/A
	LED Exterior Lighting	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0
	LED Exterior Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	0.0
	LED Exterior Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	0.0
	Optimal Choice of Vertical Fenestration	Total Participants	0	0	0	4	4
Installed kWh/year	Optimal Choice of Vertical Fenestration	Total Gross Energy Savings (kWh/yr)	0	0	0	5,643	5,643
	Optimal Choice of Vertical Fenestration	Realization Rate	N/A	N/A	N/A	100%	100%
	Optimal Choice of Vertical Fenestration	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Optimal Choice of Vertical Fenestration	Net Adjusted Savings (kWh/yr)	0	0	0	5,079	5,079
	Optimal Choice of Vertical Fenestration	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,411	1,411
	Optimal Choice of Vertical Fenestration	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,270	1,270
Installed Summer peak kW	Optimal Choice of Vertical Fenestration	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	1.5	1.5
	Optimal Choice of Vertical Fenestration	Realization Rate	N/A	N/A	N/A	100%	100%
	Optimal Choice of Vertical Fenestration	Net-To-Gross Rate	N/A	N/A	N/A	90%	90%
	Optimal Choice of Vertical Fenestration	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	1.3	1.3
	Optimal Choice of Vertical Fenestration	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.4	0.4
	Optimal Choice of Vertical Fenestration	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.3	0.3
Installed Winter peak kW	Optimal Choice of Vertical Fenestration	Total Gross Demand Reduction (kW)	-	-	-	0.3	0.3
	Optimal Choice of Vertical Fenestration	Realization Rate	-	-	-	100%	100%
	Optimal Choice of Vertical Fenestration	Net-To-Gross Rate	-	-	-	90%	90%
	Optimal Choice of Vertical Fenestration	Net Adjusted Demand Reduction (kW)	-	-	-	0.2	0.2
	Optimal Choice of Vertical Fenestration	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.07	0.07
	Optimal Choice of Vertical Fenestration	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.06	0.06

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J.29.4 2020–2023 Virginia Non-Residential New Construction Program (Phase VIII)  
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
CNCR	-1	Not Available	3234344.193	48833.07298	66.23265741	Not Available	Not Available

J.29.5 2020–2023 Virginia Non-Residential New Construction Program (Phase VIII) Benefit  
Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Non-Residential New Construction	2019	VA	PUR-2019-00201	2.84	1.21	1.20	0.50
8	Non-Residential New Construction	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Non-Residential New Construction	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Non-Residential New Construction	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
8	Non-Residential New Construction	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
8	Non-Residential New Construction	2024	VA	EM&V Report	10.49	4.75	4.64	0.56



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### J.30 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) 2020–2023

#### J.30.1 2020–2023 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) Annual Indicator Tables

VA - Non-Residential Small Business Improvement Enhanced 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	\$56,290	\$2,443,713	\$3,445,530	\$4,901,879	\$10,847,412
Costs (\$)		Planned	\$0	\$3,564,498	\$3,652,065	\$3,690,005	\$10,906,568
Costs (\$)		Variance	\$56,290	-\$1,120,785	-\$206,535	\$1,211,874	-\$59,156
		Annual % of Planned	N/A	69%	94%	133%	99%
Participants <sup>1</sup>		Total (Gross)	0	307	591	947	1,845
		Planned	0	634	634	634	1,902
		Variance	0	-327	-43	313	-57
		Annual % of Planned (Gross)	N/A	48%	93%	149%	97%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	2,429,201	5,119,684	5,161,646	12,710,531
		Realization Rate Weighted by Measure	N/A	119%	119%	103%	112%
		Realization Rate Adjustment (kWh/yr)	0	456,770	966,932	130,354	1,554,056
		Realization Rate Adjusted Savings (kWh/yr)	0	2,885,972	6,086,616	5,292,000	14,264,588
		Net-To-Gross Rate Weighted by Measure	N/A	74%	74%	75%	75%
		Net-To-Gross Adjustment (kWh/yr)	0	-754,710	-1,596,051	-1,310,291	-3,661,052
		Net Adjusted Savings (kWh/yr)	0	2,131,262	4,490,565	3,981,709	10,603,536
		Planned Net Savings (kWh/yr)	0	9,199,251	9,199,251	9,199,251	27,597,754
		Annual % Toward Planned Net Savings	N/A	23.2%	48.8%	43.3%	38.4%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	7,913	8,663	5,451	6,889
		Avg. Net Savings per Participant (kWh/yr)	N/A	6,942	7,598	4,205	5,747
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	448.9	1,076.5	1,197.5	2,723.0
		Realization Rate Weighted by Measure	N/A	100%	100%	99%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	-7.3	-7.3
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	448.9	1,076.5	1,190.2	2,715.7
		Net-To-Gross Rate Weighted by Measure	N/A	79%	77%	80%	79%
		Net-To-Gross Adjustment (kW)	0.0	-94.5	-243.3	-236.6	-574.4
		Net Adjusted Demand Reduction (kW)	0.0	354.5	833.2	955.7	2,143.3
		Planned Net Savings (kW)	0.0	2,895.0	2,895.0	2,895.0	8,684.9
		Annual % Toward Planned Net Reduction	N/A	12.2%	28.8%	33.0%	24.7%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	1.5	1.8	1.3	1.5
		Avg. Net Demand Reduction per Participant (kW)	N/A	1.2	1.4	1.0	1.2
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	327.7	629.6	550.9	1,508.2
		Realization Rate Weighted by Measure	-	100%	100%	99%	100%
		Realization Rate Adjustment (kW)	-	0.0	0.0	-4.1	-4.1
		Realization Rate Adjusted Gross Demand Reduction (kW)	-	327.7	629.6	546.8	1,504.0
		Net-To-Gross Rate Weighted by Measure	-	77%	76%	77%	77%
		Net-To-Gross Adjustment (kW)	-	-75.1	-151.2	-125.7	-351.9
		Net Adjusted Demand Reduction (kW)	-	252.6	478.4	422.3	1,153.3
		Planned Net Savings (kW)	0.0	1,863.3	1,863.3	1,863.3	5,589.9
		Annual % Toward Planned Net Reduction	-	13.6%	25.7%	22.7%	20.6%
		Avg. Gross Demand Reduction per Participant (kW)	-	1.1	1.1	0.6	0.8
		Avg. Net Demand Reduction per Participant (kW)	-	0.8	0.8	0.4	0.6
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$381	\$290	\$321	\$321
		\$Admin. per kWh/year (Gross)	N/A	\$0.05	\$0.03	\$0.05	\$0.05
		\$Admin. per kW (Gross)	N/A	\$261	\$171	\$217	\$217
		\$EM&V per \$Total	83.7%	8.7%	6.6%	5.8%	5.8%
		\$Rebate per Participant (Gross)	N/A	\$3,184	\$3,244	\$3,204	\$3,204

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J.30.2 2023 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) Monthly Indicator Tables

VA - Non-Residential Small Business Improvement 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)		\$19,873	\$26,924	\$23,367	\$22,885	\$26,489	\$26,370	\$33,599	\$24,802	\$30,935	\$49,158	\$33,027	\$13,777	\$331,207		
Capital (\$)	Direct Implementation		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Costs (\$)	Total		\$294,127	\$398,473	\$345,831	\$338,701	\$392,041	\$390,281	\$497,271	\$367,071	\$457,838	\$727,537	\$488,801	\$203,907	\$4,901,879		
Costs (\$)	Planned		\$246,000	\$246,000	\$246,000	\$246,000	\$246,000	\$246,000	\$369,000	\$369,000	\$369,000	\$369,000	\$369,000	\$369,000	\$3,690,005		
Costs (\$)	Variance		\$48,127	\$152,473	\$99,831	\$92,701	\$146,041	\$144,281	\$128,271	-\$1,929	\$88,838	\$358,537	\$119,801	-\$165,093	\$1,211,874		
	Annual % of Planned		8.0%	18.8%	28.1%	37.3%	47.9%	58.5%	72.0%	81.9%	94.4%	114.1%	127.3%	132.8%	133%		
Participants <sup>1</sup>	Total (Gross)		54	62	67	70	69	105	134	94	80	124	66	22	947		
	Planned		62	52	52	52	52	52	52	52	52	52	52	52	634		
	Variance		-8	10	15	18	17	53	82	42	28	72	14	-30	313		
	Annual % of Planned (Gross)		9%	18%	29%	40%	51%	67%	88%	103%	116%	135%	146%	149%	149%		
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	318,488	386,617	395,236	168,647	709,856	256,848	387,735	257,365	644,361	1,086,739	399,794	149,959	5,161,646		
		Realization Rate Weighted by Measure	103%	103%	102%	102%	103%	102%	102%	102%	103%	103%	103%	102%	103%		
		Realization Rate Adjustment (kWh/yr)	8,016	9,721	6,989	3,867	20,003	5,877	8,920	6,001	17,783	29,568	10,358	3,253	130,354		
		Realization Rate Adjusted Savings (kWh/yr)	326,504	396,337	402,225	172,514	729,859	262,726	396,655	263,365	662,144	1,116,307	410,152	153,212	5,292,000		
		Net-To-Gross Rate Weighted by Measure	75%	75%	81%	77%	73%	77%	77%	74%	74%	74%	78%	75%	75%		
		Net-To-Gross Adjustment (kWh/yr)	-80,647	-97,831	-78,547	-39,954	-195,312	-60,763	-92,076	-61,700	-174,565	-291,329	-103,389	-34,178	-1,310,291		
		Net Adjusted Savings (kWh/yr)	245,856	298,507	323,678	132,560	534,548	201,962	304,579	201,665	487,579	824,978	306,763	119,034	3,981,709		
		Planned Net Savings (kWh/yr)	899,611	754,513	754,513	754,513	754,513	754,513	754,513	754,513	754,513	754,513	754,513	754,513	9,199,251		
		Annual % Toward Planned Net Savings	2.67%	5.92%	9.44%	10.9%	16.7%	18.9%	22.2%	24.4%	29.7%	38.7%	42.0%	43.3%	43.3%		
		Avg. Gross Savings per Participant (kWh/yr)	5,898	6,236	5,899	2,409	10,288	2,446	2,894	2,738	8,055	8,764	6,057	6,816	5,451		
		Avg. Net Savings per Participant (kWh/yr)	4,553	4,815	4,831	1,894	7,747	1,923	2,273	2,145	6,095	6,653	4,648	5,411	4,205		
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	64.7	76.7	81.4	50.8	177.3	61.7	97.2	73.9	123.0	228.2	132.0	30.7	1,197.5		
		Realization Rate Weighted by Measure	99%	99%	99%	99%	99%	100%	100%	99%	99%	99%	99%	99%	99%		
		Realization Rate Adjustment (kW)	-0.4	-0.4	-0.5	-0.3	-1.5	-0.3	-0.4	-0.4	-0.8	-1.4	-0.7	-0.2	-7.3		
		Realization Rate Adjusted Gross Demand Reduction (kW)	64.2	76.3	80.9	50.5	175.8	61.5	96.8	73.5	122.2	226.8	131.2	30.5	1,190.2		
		Net-To-Gross Rate Weighted by Measure	79%	82%	80%	82%	76%	84%	84%	82%	79%	80%	81%	82%	80%		
		Net-To-Gross Adjustment (kW)	-13.4	-13.6	-16.0	-9.3	-43.3	-9.8	-15.5	-13.6	-25.9	-46.4	-24.4	-5.4	-296.6		
		Net Adjusted Demand Reduction (kW)	50.9	62.8	65.0	41.3	132.9	51.7	81.4	60.0	96.6	180.8	107.0	25.2	955.7		
		Planned Net Savings (kW)	283.1	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	237.4	2,895.0		
		Annual % Toward Planned Net Reduction	1.76%	3.93%	6.17%	7.60%	12.2%	14.0%	16.8%	18.9%	22.2%	28.4%	32.1%	33.0%	33.0%		
		Avg. Gross Demand Reduction per Participant (kW)	1.2	1.2	1.2	0.73	2.6	0.59	0.73	0.79	1.5	1.8	2.0	1.4	1.3		
		Avg. Net Demand Reduction per Participant (kW)	0.9	1.0	1.0	0.6	1.9	0.5	0.6	0.6	1.2	1.5	1.6	1.1	1.0		
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	32.0	47.9	31.9	23.2	62.6	31.6	50.3	29.9	72.9	108.7	35.6	24.4	550.9		
		Realization Rate Weighted by Measure	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%	99%		
		Realization Rate Adjustment (kW)	-0.3	-0.4	-0.2	-0.1	-0.5	-0.2	-0.3	-0.2	-0.6	-1.0	-0.3	-0.1	-4.1		
		Realization Rate Adjusted Gross Demand Reduction (kW)	31.7	47.5	31.7	23.1	62.1	31.4	50.0	29.8	72.3	107.7	35.3	24.3	546.8		
		Net-To-Gross Rate Weighted by Measure	76%	76%	80%	82%	75%	78%	80%	81%	76%	74%	77%	84%	77%		
		Net-To-Gross Adjustment (kW)	-7.8	-11.3	-6.3	-4.1	-15.4	-6.9	-10.0	-5.6	-17.8	-28.2	-8.3	-4.0	-125.7		
		Net Adjusted Demand Reduction (kW)	24.0	36.4	25.4	19.0	46.9	24.5	40.1	24.3	54.6	79.8	27.0	20.4	422.3		
		Planned Net Savings (kW)	182.2	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	152.8	1,863.3		
		Annual % Toward Planned Net Reduction	1.29%	3.24%	4.60%	5.62%	8.14%	9.45%	11.6%	12.9%	15.8%	20.1%	21.6%	22.7%	22.7%		
		Avg. Gross Demand Reduction per Participant (kW)	0.6	0.8	0.5	0.3	0.9	0.3	0.4	0.3	0.9	0.9	0.5	1.1	0.6		
		Avg. Net Demand Reduction per Participant (kW)	0.4	0.6	0.4	0.3	0.7	0.2	0.3	0.3	0.7	0.6	0.4	0.9	0.4		
Cumulative Annual Program Performance	\$Admin. per Participant (Gross)		\$295	\$303	\$306	\$307	\$312	\$307	\$302	\$300	\$304	\$310	\$317	\$321	\$321		
	\$Admin. per kWh/year (Gross)		\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.05	\$0.05		
	\$Admin. per kW (Gross)		\$177	\$185	\$189	\$197	\$192	\$200	\$206	\$211	\$213	\$213	\$215	\$217	\$217		
	\$EM&V per \$Total		6.6%	6.6%	6.8%	7.4%	7.2%	7.1%	6.9%	6.7%	6.5%	6.1%	5.8%	5.8%	5.8%		
	\$Rebate per Participant (Gross)		\$3,218	\$3,254	\$3,216	\$3,142	\$3,165	\$3,085	\$3,026	\$2,982	\$3,022	\$3,125	\$3,200	\$3,204	\$3,204		

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J.30.3 2020–2023 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) Measure Indicator Tables

VA - Non-Residential Small Business Improvement Enhanced Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
Installed kWh/year	Auto Closers	Total Participants	0	0	12	0	12
	Auto Closers	Total Gross Energy Savings (kWh/yr)	0	0	2,223	0	2,223
	Auto Closers	Realization Rate	N/A	N/A	100%	N/A	100%
	Auto Closers	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	Auto Closers	Net Adjusted Savings (kWh/yr)	0	0	2,068	0	2,068
	Auto Closers	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	185	N/A	185
	Auto Closers	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	172	N/A	172
Installed Summer peak kW	Auto Closers	Total Gross Demand Reduction (kW)	0.0	0.0	0.3	0.0	0.3
	Auto Closers	Realization Rate	N/A	N/A	100%	N/A	100%
	Auto Closers	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	Auto Closers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.2	0.0	0.2
	Auto Closers	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.02	N/A	0.02
	Auto Closers	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.02	N/A	0.02
	Installed Winter peak kW	Auto Closers	Total Gross Demand Reduction (kW)	-	-	0.3	0.0
Auto Closers		Realization Rate	-	-	100%	N/A	100%
Auto Closers		Net-To-Gross Rate	-	-	93%	N/A	93%
Auto Closers		Net Adjusted Demand Reduction (kW)	-	-	0.2	0.0	0.2
Auto Closers		Avg. Gross Demand Reduction per Participant (kW)	-	-	0.02	N/A	0.02
Auto Closers		Avg. Net Demand Reduction per Participant (kW)	-	-	0.02	N/A	0.02
Installed kWh/year		Duct Test and Seal	Total Participants	0	183	336	655
	Duct Test and Seal	Total Gross Energy Savings (kWh/yr)	0	118,768	173,190	282,742	574,700
	Duct Test and Seal	Realization Rate	N/A	100%	100%	100%	100%
	Duct Test and Seal	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	Duct Test and Seal	Net Adjusted Savings (kWh/yr)	0	110,455	161,066	262,950	534,471
	Duct Test and Seal	Avg. Gross Savings per Participant (kWh/yr)	N/A	649	515	432	490
	Duct Test and Seal	Avg. Net Savings per Participant (kWh/yr)	N/A	604	479	401	455
Installed Summer peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	0.0	69.7	111.3	188.7	369.7
	Duct Test and Seal	Realization Rate	N/A	100%	100%	100%	100%
	Duct Test and Seal	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	0.0	64.8	103.5	175.5	343.8
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.4	0.3	0.3	0.3
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	N/A	0.4	0.3	0.3	0.3
	Installed Winter peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	-	54.3	67.8	78.8
Duct Test and Seal		Realization Rate	-	100%	100%	100%	100%
Duct Test and Seal		Net-To-Gross Rate	-	93%	93%	93%	93%
Duct Test and Seal		Net Adjusted Demand Reduction (kW)	-	50.5	63.1	73.2	186.8
Duct Test and Seal		Avg. Gross Demand Reduction per Participant (kW)	-	0.3	0.2	0.1	0.2
Duct Test and Seal		Avg. Net Demand Reduction per Participant (kW)	-	0.3	0.2	0.1	0.2
Installed kWh/year		HVAC Tune up	Total Participants	0	225	480	835
	HVAC Tune up	Total Gross Energy Savings (kWh/yr)	0	91,859	208,534	436,487	736,880
	HVAC Tune up	Realization Rate	N/A	100%	100%	100%	100%
	HVAC Tune up	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	HVAC Tune up	Net Adjusted Savings (kWh/yr)	0	85,429	193,937	405,933	685,299
	HVAC Tune up	Avg. Gross Savings per Participant (kWh/yr)	N/A	408	434	523	478
	HVAC Tune up	Avg. Net Savings per Participant (kWh/yr)	N/A	380	404	486	445
Installed Summer peak kW	HVAC Tune up	Total Gross Demand Reduction (kW)	0.0	73.2	150.2	269.6	493.0
	HVAC Tune up	Realization Rate	N/A	100%	100%	100%	100%
	HVAC Tune up	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	HVAC Tune up	Net Adjusted Demand Reduction (kW)	0.0	68.0	139.7	250.7	458.5
	HVAC Tune up	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.3	0.3	0.3	0.3
	HVAC Tune up	Avg. Net Demand Reduction per Participant (kW)	N/A	0.3	0.3	0.3	0.3
	Installed Winter peak kW	HVAC Tune up	Total Gross Demand Reduction (kW)	-	22.8	40.4	53.6

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VA - Non-Residential Small Business Improvement Enhanced Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	HVAC Tune up	Realization Rate	-	100%	100%	100%	100%
	HVAC Tune up	Net-To-Gross Rate	-	93%	93%	93%	93%
	HVAC Tune up	Net Adjusted Demand Reduction (kW)	-	21.2	37.6	49.9	108.6
	HVAC Tune up	Avg. Gross Demand Reduction per Participant (kW)	-	0.1	0.08	0.06	0.08
	HVAC Tune up	Avg. Net Demand Reduction per Participant (kW)	-	0.09	0.08	0.06	0.07
	LED Lamps	Total Participants	0	87	133	192	412
Installed kWh/year	LED Lamps	Total Gross Energy Savings (kWh/yr)	0	2,175,097	4,604,439	4,345,127	11,124,663
	LED Lamps	Realization Rate	N/A	121%	121%	103%	114%
	LED Lamps	Net-To-Gross Rate	N/A	72%	72%	72%	72%
	LED Lamps	Net Adjusted Savings (kWh/yr)	0	1,894,944	4,011,387	3,222,346	9,128,678
	LED Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	25,001	34,620	22,631	27,002
	LED Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	21,781	30,161	16,783	22,157
Installed Summer peak kW	LED Lamps	Total Gross Demand Reduction (kW)	0.0	300.3	799.7	727.6	1,827.6
	LED Lamps	Realization Rate	N/A	100%	100%	99%	100%
	LED Lamps	Net-To-Gross Rate	N/A	72%	72%	72%	72%
	LED Lamps	Net Adjusted Demand Reduction (kW)	0.0	216.2	575.8	518.6	1,310.6
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	3.5	6.0	3.8	4.4
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	2.5	4.3	2.7	3.2
Installed Winter peak kW	LED Lamps	Total Gross Demand Reduction (kW)	-	248.3	510.1	414.8	1,173.2
	LED Lamps	Realization Rate	-	100%	100%	99%	100%
	LED Lamps	Net-To-Gross Rate	-	72%	72%	72%	72%
	LED Lamps	Net Adjusted Demand Reduction (kW)	-	178.8	367.3	295.7	841.7
	LED Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	2.9	3.8	2.2	2.8
	LED Lamps	Avg. Net Demand Reduction per Participant (kW)	-	2.1	2.8	1.5	2.0
	Occupancy Sensors	Total Participants	0	15	22	44	81
Installed kWh/year	Occupancy Sensors	Total Gross Energy Savings (kWh/yr)	0	42,594	53,819	92,393	188,805
	Occupancy Sensors	Realization Rate	N/A	100%	100%	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	Occupancy Sensors	Net Adjusted Savings (kWh/yr)	0	39,612	50,051	85,926	175,589
	Occupancy Sensors	Avg. Gross Savings per Participant (kWh/yr)	N/A	2,840	2,446	2,100	2,331
	Occupancy Sensors	Avg. Net Savings per Participant (kWh/yr)	N/A	2,641	2,275	1,953	2,168
Installed Summer peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	0.0	5.8	5.5	11.3	22.5
	Occupancy Sensors	Realization Rate	N/A	100%	100%	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	N/A	93%	93%	93%	93%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	0.0	5.4	5.1	10.5	21.0
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.4	0.2	0.3	0.3
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	N/A	0.4	0.2	0.2	0.3
Installed Winter peak kW	Occupancy Sensors	Total Gross Demand Reduction (kW)	-	2.3	2.5	3.8	8.6
	Occupancy Sensors	Realization Rate	-	100%	100%	100%	100%
	Occupancy Sensors	Net-To-Gross Rate	-	93%	93%	93%	93%
	Occupancy Sensors	Net Adjusted Demand Reduction (kW)	-	2.1	2.3	3.5	8.0
	Occupancy Sensors	Avg. Gross Demand Reduction per Participant (kW)	-	0.2	0.1	0.09	0.1
	Occupancy Sensors	Avg. Net Demand Reduction per Participant (kW)	-	0.1	0.1	0.08	0.10
	Programmable Thermostats	Total Participants	0	0	0	3	3
Installed kWh/year	Programmable Thermostats	Total Gross Energy Savings (kWh/yr)	0	0	0	4,694	4,694
	Programmable Thermostats	Realization Rate	N/A	N/A	N/A	100%	100%
	Programmable Thermostats	Net-To-Gross Rate	N/A	N/A	N/A	93%	93%
	Programmable Thermostats	Net Adjusted Savings (kWh/yr)	0	0	0	4,365	4,365
	Programmable Thermostats	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,565	1,565
	Programmable Thermostats	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	1,455	1,455
Installed Summer peak kW	Programmable Thermostats	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Programmable Thermostats	Realization Rate	N/A	N/A	N/A	N/A	N/A





VA - Non-Residential Small Business Improvement Enhanced Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Programmable Thermostats	Net-To-Gross Rate	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
	Programmable Thermostats	Avg. Gross Demand Reduction per Participant (kW)	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	0.0
Installed Winter peak kW	Programmable Thermostats	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0
	Programmable Thermostats	Realization Rate	-	-	-	N/A	N/A
	Programmable Thermostats	Net-To-Gross Rate	-	-	-	N/A	N/A
	Programmable Thermostats	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0
	Programmable Thermostats	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	-
	Programmable Thermostats	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	-
	Strip Curtains	Total Participants	0	0	13	0	13
Installed kWh/year	Strip Curtains	Total Gross Energy Savings (kWh/yr)	0	0	71,912	0	71,912
	Strip Curtains	Realization Rate	N/A	N/A	100%	N/A	100%
	Strip Curtains	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	Strip Curtains	Net Adjusted Savings (kWh/yr)	0	0	66,878	0	66,878
	Strip Curtains	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	5,532	N/A	5,532
	Strip Curtains	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	5,144	N/A	5,144
Installed Summer peak kW	Strip Curtains	Total Gross Demand Reduction (kW)	0.0	0.0	8.2	0.0	8.2
	Strip Curtains	Realization Rate	N/A	N/A	100%	N/A	100%
	Strip Curtains	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	Strip Curtains	Net Adjusted Demand Reduction (kW)	0.0	0.0	7.6	0.0	7.6
	Strip Curtains	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.6	N/A	0.6
	Strip Curtains	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.6	N/A	0.6
Installed Winter peak kW	Strip Curtains	Total Gross Demand Reduction (kW)	-	-	8.2	0.0	8.2
	Strip Curtains	Realization Rate	-	-	100%	N/A	100%
	Strip Curtains	Net-To-Gross Rate	-	-	93%	N/A	93%
	Strip Curtains	Net Adjusted Demand Reduction (kW)	-	-	7.6	0.0	7.6
	Strip Curtains	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.6	N/A	0.6
	Strip Curtains	Avg. Net Demand Reduction per Participant (kW)	-	-	0.6	N/A	0.6
	T5/T8 Lamps	Total Participants	0	0	1	0	1
Installed kWh/year	T5/T8 Lamps	Total Gross Energy Savings (kWh/yr)	0	0	5,568	0	5,568
	T5/T8 Lamps	Realization Rate	N/A	N/A	100%	N/A	100%
	T5/T8 Lamps	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	T5/T8 Lamps	Net Adjusted Savings (kWh/yr)	0	0	5,178	0	5,178
	T5/T8 Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	5,568	N/A	5,568
	T5/T8 Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	5,178	N/A	5,178
Installed Summer peak kW	T5/T8 Lamps	Total Gross Demand Reduction (kW)	0.0	0.0	1.3	0.0	1.3
	T5/T8 Lamps	Realization Rate	N/A	N/A	100%	N/A	100%
	T5/T8 Lamps	Net-To-Gross Rate	N/A	N/A	93%	N/A	93%
	T5/T8 Lamps	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.2	0.0	1.2
	T5/T8 Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.3	N/A	1.3
	T5/T8 Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.2	N/A	1.2
Installed Winter peak kW	T5/T8 Lamps	Total Gross Demand Reduction (kW)	-	-	0.3	0.0	0.3
	T5/T8 Lamps	Realization Rate	-	-	100%	N/A	100%
	T5/T8 Lamps	Net-To-Gross Rate	-	-	93%	N/A	93%
	T5/T8 Lamps	Net Adjusted Demand Reduction (kW)	-	-	0.3	0.0	0.3
	T5/T8 Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.3	N/A	0.3
	T5/T8 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	0.3	N/A	0.3
	Unitary AC	Total Participants	0	0	0	1	1
Installed kWh/year	Unitary AC	Total Gross Energy Savings (kWh/yr)	0	0	0	204	204
	Unitary AC	Realization Rate	N/A	N/A	N/A	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	N/A	N/A	93%	93%



VA - Non-Residential Small Business Improvement Enhanced Program			2020	2021	2022	2023	2020-2023
Category	Measure	Indicator	Total	Total	Total	Total	Total
	Unitary AC	Net Adjusted Savings (kWh/yr)	0	0	0	189	189
	Unitary AC	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	204	204
	Unitary AC	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	189	189
Installed Summer peak kW	Unitary AC	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.4	0.4
	Unitary AC	Realization Rate	N/A	N/A	N/A	100%	100%
	Unitary AC	Net-To-Gross Rate	N/A	N/A	N/A	93%	93%
	Unitary AC	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.4	0.4
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.4	0.4
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	0.4	0.4
Installed Winter peak kW	Unitary AC	Total Gross Demand Reduction (kW)	-	-	-	0.0	0.0
	Unitary AC	Realization Rate	-	-	-	N/A	N/A
	Unitary AC	Net-To-Gross Rate	-	-	-	N/A	N/A
	Unitary AC	Net Adjusted Demand Reduction (kW)	-	-	-	0.0	0.0
	Unitary AC	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	0.0	-
	Unitary AC	Avg. Net Demand Reduction per Participant (kW)	-	-	-	0.0	-
	Window Film	Total Participants	0	2	0	0	2
Installed kWh/year	Window Film	Total Gross Energy Savings (kWh/yr)	0	883	0	0	883
	Window Film	Realization Rate	N/A	100%	N/A	N/A	100%
	Window Film	Net-To-Gross Rate	N/A	93%	N/A	N/A	93%
	Window Film	Net Adjusted Savings (kWh/yr)	0	821	0	0	821
	Window Film	Avg. Gross Savings per Participant (kWh/yr)	N/A	442	N/A	N/A	442
	Window Film	Avg. Net Savings per Participant (kWh/yr)	N/A	411	N/A	N/A	411
Installed Summer peak kW	Window Film	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Window Film	Realization Rate	N/A	N/A	N/A	N/A	N/A
	Window Film	Net-To-Gross Rate	N/A	N/A	N/A	N/A	N/A
	Window Film	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	0.0
	Window Film	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	0.0
	Window Film	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	N/A	N/A	0.0
Installed Winter peak kW	Window Film	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Window Film	Realization Rate	-	N/A	N/A	N/A	N/A
	Window Film	Net-To-Gross Rate	-	N/A	N/A	N/A	N/A
	Window Film	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0	0.0
	Window Film	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	N/A	N/A	-
	Window Film	Avg. Net Demand Reduction per Participant (kW)	-	0.0	N/A	N/A	-

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**J.30.4 2020–2023 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) 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
SBIZ	105	Schedule 5	5098.67994	14509.86	0.351394151	54044.91726	0.094341526
SBIZ	108	Schedule 5C	5935.076568	14509.86	0.40903748	54288.73985	0.109324265
SBIZ	109	Schedule 5P	19483.3728	14509.86	1.342767801	227958.3333	0.085469009
SBIZ	110	Schedule GS-1	3678.443812	14509.86	0.253513391	25717.7424	0.143031365
SBIZ	114	Schedule GS-2T	16645.18097	14509.86	1.147163444	541550.383	0.030736163
SBIZ	168	Schedule 5	5098.67994	14509.86	0.351394151	Not Available	Not Available
SBIZ	169	Schedule 5C	5935.076568	14509.86	0.40903748	Not Available	Not Available
SBIZ	170	Schedule 5P	19483.3728	14509.86	1.342767801	Not Available	Not Available
SBIZ	227	Schedule GS-2	10230.26068	14509.86	0.705055782	329494.9816	0.031048305
SBIZ	All Codes	All Rates	5747.173748	14509.86	0.396087471	Not Available	Not Available

**J.30.5 2020–2023 Virginia Non-Residential Small Business Improvement Enhanced Program (Phase VIII) Benefit Cost Scores**

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Non-Residential Small Business Improvement Enhanced	2019	VA	PUR-2019-00201	2.41	1.68	1.34	0.63
8	Non-Residential Small Business Improvement Enhanced	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Non-Residential Small Business Improvement Enhanced	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Non-Residential Small Business Improvement Enhanced	2022	VA	PUR-2022-00210	2.19	0.93	0.70	0.40
8	Non-Residential Small Business Improvement Enhanced	2023	VA	PUR-2023-00217	2.62	0.76	0.6	0.29
8	Non-Residential Small Business Improvement Enhanced	2024	VA	EM&V Report	3.31	1.45	1.16	0.42

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J.31 Virginia Non-Residential Agriculture Program (Phase IX) 2021-2023

J.31.1 2021-2023 Virginia Non-Residential Agriculture Program (Phase IX) Annual Indicator Tables

VA - Non-Residential Agricultural Energy Efficiency 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	\$20,770	\$471,081	\$885,158	\$1,377,009
Costs (\$)		Planned	\$0	\$909,217	\$859,374	\$1,768,591
Costs (\$)		Variance	\$20,770	-\$438,137	\$25,785	-\$391,582
		Annual % of Planned	N/A	52%	103%	78%
Participants <sup>1</sup>		Total (Gross)	0	3	8	11
		Planned	0	151	151	302
		Variance	0	-148	-143	-291
		Annual % of Planned (Gross)	N/A	2%	5%	4%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	4,980,594	915,873	5,896,466
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	4,980,594	915,873	5,896,466
		Net-To-Gross Rate Weighted by Measure	N/A	97%	97%	97%
		Net-To-Gross Adjustment (kWh/yr)	0	-149,418	-27,476	-176,894
		Net Adjusted Savings (kWh/yr)	0	4,831,176	888,397	5,719,572
		Planned Net Savings (kWh/yr)	0	1,872,912	1,872,912	3,745,824
		Annual % Toward Planned Net Savings	N/A	257.9%	47.4%	152.7%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	1,660,198	114,484	536,042
		Avg. Net Savings per Participant (kWh/yr)	N/A	1,610,392	111,050	519,961
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	793.3	56.8	850.2
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	793.3	56.8	850.2
		Net-To-Gross Rate Weighted by Measure	N/A	97%	97%	97%
		Net-To-Gross Adjustment (kW)	0.0	-23.8	-1.7	-25.5
		Net Adjusted Demand Reduction (kW)	0.0	769.5	55.1	824.7
		Planned Net Savings (kW)	0.0	244.7	244.7	489.5
		Annual % Toward Planned Net Reduction	N/A	314.4%	22.5%	168.5%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	264.4	7.1	77.3
		Avg. Net Demand Reduction per Participant (kW)	N/A	256.5	6.9	75.0
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	0.0	9.8	9.8
		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	9.8	9.8
		Net-To-Gross Rate Weighted by Measure	-	N/A	97%	97%
		Net-To-Gross Adjustment (kW)	-	0.0	-0.3	-0.3
		Net Adjusted Demand Reduction (kW)	-	0.0	9.5	9.5
		Planned Net Savings (kW)	0.0	498.9	498.9	997.8
		Annual % Toward Planned Net Reduction	-	0%	1.91%	0.96%
		Avg. Gross Demand Reduction per Participant (kW)	-	0.0	1.2	0.9
		Avg. Net Demand Reduction per Participant (kW)	-	0.0	1.2	0.9
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$6,881	\$7,314	\$7,314
		\$Admin. per kWh/year (Gross)	N/A	\$0.00	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$26	\$95	\$95
		\$EM&V per \$Total	74.6%	18.5%	12.9%	12.9%
		\$Rebate per Participant (Gross)	N/A	\$16,668	\$39,021	\$39,021

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J.31.2 2023 Virginia Non-Residential Agriculture Program (Phase IX) Monthly Indicator Tables

VA - Non-Residential Agricultural 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)	\$2,098	\$1,920	\$9,014	\$2,998	\$3,337	\$3,348	\$3,017	\$2,486	\$2,150	\$4,255	\$17,594	\$7,593	\$59,808			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)	Total		\$31,050	\$28,422	\$133,409	\$44,345	\$49,390	\$48,554	\$44,647	\$36,788	\$31,816	\$62,968	\$260,395	\$112,375	\$885,158			
Costs (\$)	Planned		\$57,292	\$57,292	\$57,292	\$57,292	\$57,292	\$57,292	\$57,292	\$85,937	\$85,937	\$85,937	\$85,937	\$85,937	\$85,937			
Costs (\$)	Variance		-\$26,242	-\$28,870	\$76,117	-\$12,947	-\$7,902	-\$7,737	-\$41,290	-\$49,149	-\$54,122	-\$22,970	-\$174,458	-\$26,438	-\$25,785			
	Annual % of Planned		3.6%	6.5%	22.4%	27.6%	33.4%	39.1%	44.3%	48.6%	62.3%	59.6%	89.9%	103.0%	103%			
Participants <sup>1</sup>	Total (Gross)		0	0	2	1	1	0	1	0	0	2	1	0	8			
	Planned		19	12	12	12	12	12	12	12	12	12	12	12	151			
	Variance		-19	-12	-10	-11	-11	-12	-11	-12	-12	-10	-11	-12	-143			
	Annual % of Planned (Gross)		0%	0%	1%	2%	3%	3%	3%	3%	3%	5%	5%	5%	5%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	27,475	10,786	40,459	171,182	77,263	20,341	0	44,229	524,158	0	915,873			
		Realization Rate Weighted by Measure	N/A	N/A	100%	100%	100%	100%	100%	100%	N/A	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	27,475	10,786	40,459	171,182	77,263	20,341	0	44,229	524,158	0	915,873			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	97%	97%	97%	97%	97%	97%	N/A	97%	97%	N/A	97%			
		Net-To-Gross Adjustment (kWh/yr)	0	0	-824	-323	-1,214	-5,135	-2,318	-610	0	-1,327	-15,725	0	-27,476			
		Net Adjusted Savings (kWh/yr)	0	0	26,650	10,443	39,246	166,047	74,945	19,730	0	42,902	508,434	0	888,397			
		Planned Net Savings (kWh/yr)	235,664	148,841	148,841	148,841	148,841	148,841	148,841	148,841	148,841	148,841	148,841	148,841	1,872,912			
		Annual % Toward Planned Net Savings	0%	0%	1.42%	1.98%	4.08%	12.9%	16.9%	18.0%	18.0%	20.3%	47.4%	47.4%	47.4%			
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	13,737	10,766	40,459	N/A	77,263	N/A	N/A	22,114	524,158	N/A	114,484			
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	13,325	10,443	39,246	N/A	74,945	N/A	N/A	21,451	508,434	N/A	111,050			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	4.5	4.2	10.4	27.1	0.0	3.1	0.0	7.5	0.0	0.0	56.8			
		Realization Rate Weighted by Measure	N/A	N/A	100%	100%	100%	100%	N/A	100%	N/A	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	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	4.5	4.2	10.4	27.1	0.0	3.1	0.0	7.5	0.0	0.0	56.8			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	97%	97%	97%	97%	N/A	97%	N/A	97%	N/A	N/A	97%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	-0.1	-0.1	-0.3	-0.8	0.0	-0.1	0.0	-0.2	0.0	0.0	-1.7			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	4.4	4.1	10.1	26.3	0.0	3.0	0.0	7.3	0.0	0.0	55.1			
		Planned Net Savings (kW)	30.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	244.7			
		Annual % Toward Planned Net Reduction	0%	0%	1.79%	3.44%	7.55%	18.3%	18.3%	19.5%	19.5%	22.5%	22.5%	22.5%	22.5%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	2.3	4.2	10.4	N/A	0.0	N/A	N/A	3.8	0.0	N/A	7.1			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	2.2	4.1	10.1	N/A	0.0	N/A	N/A	3.7	0.0	N/A	6.9			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0	8.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	9.8			
		Realization Rate Weighted by Measure	N/A	N/A	100%	N/A	100%	100%	N/A	N/A	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)	0.0	0.0	0.0	0.0	8.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	9.8			
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	97%	N/A	97%	97%	N/A	N/A	N/A	N/A	N/A	N/A	97%			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3			
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0	8.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	9.5			
		Planned Net Savings (kW)	62.8	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	498.9			
		Annual % Toward Planned Net Reduction	0%	0%	0.01%	0.01%	1.66%	1.91%	1.91%	1.91%	1.91%	1.91%	1.91%	1.91%	1.91%			
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.02	0.0	8.6	N/A	0.0	N/A	N/A	0.0	0.0	N/A	1.2			
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.02	0.0	8.3	N/A	0.0	N/A	N/A	0.0	0.0	N/A	1.2			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$7,580	\$8,221	\$6,735	\$6,112	\$5,716	\$6,194	\$5,797	\$6,107	\$6,376	\$5,526	\$6,623	\$7,314	\$7,314			
		\$Admin. per kWh/year (Gross)	\$0.00	\$0.00	\$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)	\$29	\$31	\$42	\$46	\$49	\$52	\$55	\$58	\$61	\$65	\$86	\$95	\$95			
		\$EM&V per \$Total	18.5%	18.2%	15.8%	15.8%	16.1%	16.2%	16.3%	16.5%	16.5%	16.0%	13.1%	12.9%	12.9%			
		\$Rebate per Participant (Gross)	\$16,668	\$16,668	\$28,351	\$25,347	\$23,333	\$25,030	\$23,026	\$23,422	\$23,422	\$21,633	\$39,021	\$39,021	\$39,021			

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J.31.3 2021-2023 Virginia Non-Residential Agriculture Program (Phase IX) Measure Indicator Tables

VA - Non-Residential Agricultural Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Automatic Milker Take-Off	Total Participants	0	0	1	1
Installed kWh/year	Automatic Milker Take-Off	Total Gross Energy Savings (kWh/yr)	0	0	29,250	29,250
	Automatic Milker Take-Off	Realization Rate	N/A	N/A	100%	100%
	Automatic Milker Take-Off	Net-To-Gross Rate	N/A	N/A	97%	97%
	Automatic Milker Take-Off	Net Adjusted Savings (kWh/yr)	0	0	28,373	28,373
	Automatic Milker Take-Off	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	29,250	29,250
	Automatic Milker Take-Off	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	28,373	28,373
Installed Summer peak kW	Automatic Milker Take-Off	Total Gross Demand Reduction (kW)	0.0	0.0	8.6	8.6
	Automatic Milker Take-Off	Realization Rate	N/A	N/A	100%	100%
	Automatic Milker Take-Off	Net-To-Gross Rate	N/A	N/A	97%	97%
	Automatic Milker Take-Off	Net Adjusted Demand Reduction (kW)	0.0	0.0	8.3	8.3
	Automatic Milker Take-Off	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	8.6	8.6
	Automatic Milker Take-Off	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	8.3	8.3
Installed Winter peak kW	Automatic Milker Take-Off	Total Gross Demand Reduction (kW)	-	-	8.6	8.6
	Automatic Milker Take-Off	Realization Rate	-	-	100%	100%
	Automatic Milker Take-Off	Net-To-Gross Rate	-	-	97%	97%
	Automatic Milker Take-Off	Net Adjusted Demand Reduction (kW)	-	-	8.3	8.3
	Automatic Milker Take-Off	Avg. Gross Demand Reduction per Participant (kW)	-	-	8.6	8.6
	Automatic Milker Take-Off	Avg. Net Demand Reduction per Participant (kW)	-	-	8.3	8.3
Installed kWh/year	Circulation Fan	Total Participants	0	0	0	0
	Circulation Fan	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Circulation Fan	Realization Rate	N/A	N/A	N/A	N/A
	Circulation Fan	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Circulation Fan	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Circulation Fan	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Circulation Fan	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
Installed Summer peak kW	Circulation Fan	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Circulation Fan	Realization Rate	N/A	N/A	N/A	N/A
	Circulation Fan	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Circulation Fan	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Circulation Fan	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Circulation Fan	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
Installed Winter peak kW	Circulation Fan	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Circulation Fan	Realization Rate	-	-	-	N/A
	Circulation Fan	Net-To-Gross Rate	-	-	-	N/A
	Circulation Fan	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Circulation Fan	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Circulation Fan	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
Installed kWh/year	Dairy Lighting Controls	Total Participants	0	0	1	1
	Dairy Lighting Controls	Total Gross Energy Savings (kWh/yr)	0	0	162	162
	Dairy Lighting Controls	Realization Rate	N/A	N/A	100%	100%
	Dairy Lighting Controls	Net-To-Gross Rate	N/A	N/A	97%	97%
	Dairy Lighting Controls	Net Adjusted Savings (kWh/yr)	0	0	157	157
	Dairy Lighting Controls	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	162	162
	Dairy Lighting Controls	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	157	157
Installed Summer peak kW	Dairy Lighting Controls	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Dairy Lighting Controls	Realization Rate	N/A	N/A	100%	100%
	Dairy Lighting Controls	Net-To-Gross Rate	N/A	N/A	97%	97%
	Dairy Lighting Controls	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Dairy Lighting Controls	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.04	0.04
	Dairy Lighting Controls	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.04	0.04
Installed Winter peak kW	Dairy Lighting Controls	Total Gross Demand Reduction (kW)	-	-	0.0	0.0

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VA - Non-Residential Agricultural Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Dairy Lighting Controls	Realization Rate	-	-	100%	100%
	Dairy Lighting Controls	Net-To-Gross Rate	-	-	97%	97%
	Dairy Lighting Controls	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Dairy Lighting Controls	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.04	0.04
	Dairy Lighting Controls	Avg. Net Demand Reduction per Participant (kW)	-	-	0.04	0.04
	High-Volume Low-Speed Fan	Total Participants	0	0	1	1
Installed kWh/year	High-Volume Low-Speed Fan	Total Gross Energy Savings (kWh/yr)	0	0	10,766	10,766
	High-Volume Low-Speed Fan	Realization Rate	N/A	N/A	100%	100%
	High-Volume Low-Speed Fan	Net-To-Gross Rate	N/A	N/A	97%	97%
	High-Volume Low-Speed Fan	Net Adjusted Savings (kWh/yr)	0	0	10,443	10,443
	High-Volume Low-Speed Fan	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	10,766	10,766
	High-Volume Low-Speed Fan	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	10,443	10,443
Installed Summer peak kW	High-Volume Low-Speed Fan	Total Gross Demand Reduction (kW)	0.0	0.0	4.2	4.2
	High-Volume Low-Speed Fan	Realization Rate	N/A	N/A	100%	100%
	High-Volume Low-Speed Fan	Net-To-Gross Rate	N/A	N/A	97%	97%
	High-Volume Low-Speed Fan	Net Adjusted Demand Reduction (kW)	0.0	0.0	4.1	4.1
	High-Volume Low-Speed Fan	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	4.2	4.2
	High-Volume Low-Speed Fan	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	4.1	4.1
Installed Winter peak kW	High-Volume Low-Speed Fan	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	High-Volume Low-Speed Fan	Realization Rate	-	-	N/A	N/A
	High-Volume Low-Speed Fan	Net-To-Gross Rate	-	-	N/A	N/A
	High-Volume Low-Speed Fan	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	High-Volume Low-Speed Fan	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	High-Volume Low-Speed Fan	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Horticulture LED	Total Participants	0	3	6	9
Installed kWh/year	Horticulture LED	Total Gross Energy Savings (kWh/yr)	0	4,980,594	865,308	5,845,901
	Horticulture LED	Realization Rate	N/A	100%	100%	100%
	Horticulture LED	Net-To-Gross Rate	N/A	97%	97%	97%
	Horticulture LED	Net Adjusted Savings (kWh/yr)	0	4,831,176	839,349	5,670,524
	Horticulture LED	Avg. Gross Savings per Participant (kWh/yr)	N/A	1,660,198	144,218	649,545
	Horticulture LED	Avg. Net Savings per Participant (kWh/yr)	N/A	1,610,392	139,891	630,058
Installed Summer peak kW	Horticulture LED	Total Gross Demand Reduction (kW)	0.0	793.3	42.4	835.7
	Horticulture LED	Realization Rate	N/A	100%	100%	100%
	Horticulture LED	Net-To-Gross Rate	N/A	97%	97%	97%
	Horticulture LED	Net Adjusted Demand Reduction (kW)	0.0	769.5	41.1	810.6
	Horticulture LED	Avg. Gross Demand Reduction per Participant (kW)	N/A	264.4	7.1	92.9
	Horticulture LED	Avg. Net Demand Reduction per Participant (kW)	N/A	256.5	6.9	90.1
Installed Winter peak kW	Horticulture LED	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Horticulture LED	Realization Rate	-	N/A	N/A	N/A
	Horticulture LED	Net-To-Gross Rate	-	N/A	N/A	N/A
	Horticulture LED	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Horticulture LED	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Horticulture LED	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	T8/T5 Lamps	Total Participants	0	0	1	1
Installed kWh/year	T8/T5 Lamps	Total Gross Energy Savings (kWh/yr)	0	0	8,456	8,456
	T8/T5 Lamps	Realization Rate	N/A	N/A	100%	100%
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	97%	97%
	T8/T5 Lamps	Net Adjusted Savings (kWh/yr)	0	0	8,203	8,203
	T8/T5 Lamps	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	8,456	8,456
	T8/T5 Lamps	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	8,203	8,203
Installed Summer peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	0.0	0.0	1.2	1.2
	T8/T5 Lamps	Realization Rate	N/A	N/A	100%	100%



VA - Non-Residential Agricultural Energy Efficiency Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	T8/T5 Lamps	Net-To-Gross Rate	N/A	N/A	97%	97%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	0.0	0.0	1.2	1.2
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.2	1.2
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.2	1.2
Installed Winter peak kW	T8/T5 Lamps	Total Gross Demand Reduction (kW)	-	-	1.2	1.2
	T8/T5 Lamps	Realization Rate	-	-	100%	100%
	T8/T5 Lamps	Net-To-Gross Rate	-	-	97%	97%
	T8/T5 Lamps	Net Adjusted Demand Reduction (kW)	-	-	1.2	1.2
	T8/T5 Lamps	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.2	1.2
	T8/T5 Lamps	Avg. Net Demand Reduction per Participant (kW)	-	-	1.2	1.2
	Ventilation Fan	Total Participants	0	0	2	2
Installed kWh/year	Ventilation Fan	Total Gross Energy Savings (kWh/yr)	0	0	1,931	1,931
	Ventilation Fan	Realization Rate	N/A	N/A	100%	100%
	Ventilation Fan	Net-To-Gross Rate	N/A	N/A	97%	97%
	Ventilation Fan	Net Adjusted Savings (kWh/yr)	0	0	1,873	1,873
	Ventilation Fan	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	965	965
	Ventilation Fan	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	936	936
Installed Summer peak kW	Ventilation Fan	Total Gross Demand Reduction (kW)	0.0	0.0	0.4	0.4
	Ventilation Fan	Realization Rate	N/A	N/A	100%	100%
	Ventilation Fan	Net-To-Gross Rate	N/A	N/A	97%	97%
	Ventilation Fan	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.4	0.4
	Ventilation Fan	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2
	Ventilation Fan	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2
Installed Winter peak kW	Ventilation Fan	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Ventilation Fan	Realization Rate	-	-	N/A	N/A
	Ventilation Fan	Net-To-Gross Rate	-	-	N/A	N/A
	Ventilation Fan	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Ventilation Fan	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Ventilation Fan	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-

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J.31.4 2021-2023 Virginia Non-Residential Agriculture Program (Phase IX) Comparison of Savings to Usage by Rate Schedule

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
CAGR	110	Schedule GS-1	125174.8562	12403.39	10.09198745	25717.7424	4.867256784
CAGR	117	Schedule GS-3	24955.42668	12403.39	2.011984359	7105430.618	0.003512162
CAGR	227	Schedule GS-2	1013748.524	12403.39	81.73156889	329494.9816	3.076673639
CAGR	All Codes	All Rates	519961.1208	12403.39	41.92088782	Not Available	Not Available

J.31.5 2021-2023 Virginia Non-Residential Agriculture Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Non-Residential Agricultural Energy Efficiency	2020	VA	PUR-2020-00274	3.13	1.61	1.30	0.63
9	Non-Residential Agricultural Energy Efficiency	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Non-Residential Agricultural Energy Efficiency	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Non-Residential Agricultural Energy Efficiency	2023	VA	PUR-2023-00217	1.1	0.21	0.16	0.15
9	Non-Residential Agricultural Energy Efficiency	2024	VA	EM&V Report	7.5	3.04	2.39	0.61

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**J.32 Virginia Non-Residential Building Automation Program (Phase IX)  
2021-2023**

**J.32.1 2021-2023 Virginia Non-Residential Building Automation Program (Phase IX) Annual Indicator Tables**

VA - Non-Residential Building Automation 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	\$6,714	\$425,457	\$359,739	\$791,910
Costs (\$)		Planned	\$0	\$961,106	\$881,265	\$1,842,371
Costs (\$)		Variance	\$6,714	-\$535,649	-\$521,527	-\$1,050,461
		Annual % of Planned	N/A	44%	41%	43%
Participants <sup>1</sup>		Total (Gross)	0	0	0	0
		Planned	0	28	28	56
		Variance	0	-28	-28	-56
		Annual % of Planned (Gross)	N/A	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0	0
		Planned Net Savings (kWh/yr)	0	3,779,975	3,779,975	7,559,950
		Annual % Toward Planned Net Savings	N/A	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	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
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	381.4	381.4	762.8
		Annual % Toward Planned Net Reduction	N/A	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	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	2,006.8	2,006.8	4,013.6
		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
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A
		\$EM&V per \$Total	32.6%	6.6%	6.3%	6.3%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A

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J.32.2 2021-2023 Virginia Non-Residential Building Automation Program (Phase IX) Measure Indicator Tables

VA - Non-Residential Building Automation Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Design	Total Participants	0	0	0	0
Installed kWh/year	Design	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Design	Realization Rate	N/A	N/A	N/A	N/A
	Design	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Design	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Design	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Design	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
Installed Summer peak kW	Design	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Design	Realization Rate	N/A	N/A	N/A	N/A
	Design	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Design	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Design	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Design	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
Installed Winter peak kW	Design	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Design	Realization Rate	-	-	-	N/A
	Design	Net-To-Gross Rate	-	-	-	N/A
	Design	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Design	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Design	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-

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J.32.3 2023 Virginia Non-Residential Building Automation Program (Phase IX) Monthly Indicator Tables

VA - Non-Residential Building Automation 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)	\$2,249	\$1,993	\$1,985	\$1,993	\$2,245	\$1,944	\$1,949	\$1,995	\$1,962	\$1,975	\$2,037	\$2,001	\$24,307	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$33,283	\$29,491	\$29,089	\$29,491	\$33,226	\$28,764	\$28,846	\$29,519	\$29,034	\$29,232	\$30,146	\$29,617	\$359,739	
Costs (\$)		Planned	\$58,751	\$58,751	\$58,751	\$58,751	\$58,751	\$58,751	\$88,127	\$88,127	\$88,127	\$88,127	\$88,127	\$88,127	\$881,265	
Costs (\$)		Variance	-\$25,468	-\$29,260	-\$29,662	-\$29,260	-\$25,525	-\$29,987	-\$59,280	-\$58,607	-\$59,093	-\$58,895	-\$57,980	-\$58,509	-\$521,527	
		Annual % of Planned	3.8%	7.1%	10.4%	13.8%	17.5%	20.8%	24.1%	27.4%	30.7%	34.0%	37.5%	40.8%	41%	
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned	6	2	2	2	2	2	2	2	2	2	2	2	28	
		Variance	-6	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-28	
		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	
		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)	809,995	269,998	269,998	269,998	269,998	269,998	269,998	269,998	269,998	269,998	269,998	269,998	3,779,975	
		Annual % Toward Planned Net Savings	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	
		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)	81.7	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	381.4	
		Annual % Toward Planned Net Reduction	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	
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-	
		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)	430.0	143.3	143.3	143.3	143.3	143.3	143.3	143.3	143.3	143.3	143.3	143.3	2,006.8	
		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	
		\$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	
		\$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	7.2%	7.0%	6.9%	6.7%	7.2%	7.0%	6.8%	6.7%	6.5%	6.4%	6.4%	6.3%	6.3%	
		\$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	

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J.32.4 2021-2023 Virginia Non-Residential Building Automation Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Non-Residential Building Automation	2020	VA	PUR-2020-00274	7.91	5.83	4.92	1.27
9	Non-Residential Building Automation	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Non-Residential Building Automation	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Non-Residential Building Automation	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
9	Non-Residential Building Automation	2024	VA	EM&V Report				



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**J.33 Virginia Non-Residential Building Optimization Program (IX) 2021-2023**

**J.33.1 2021-2023 Virginia Non-Residential Building Optimization Program (IX) Annual Indicator Tables**

VA - Non-Residential Building Optimization 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	\$6,996	\$503,402	\$1,252,932	\$1,763,329
Costs (\$)		Planned	\$0	\$1,100,849	\$1,015,424	\$2,116,273
Costs (\$)		Variance	\$6,996	-\$597,447	\$237,507	-\$352,944
		Annual % of Planned	N/A	46%	123%	83%
Participants <sup>1</sup>		Total (Gross)	0	2	43	45
		Planned	0	28	28	56
		Variance	0	-26	15	-11
		Annual % of Planned (Gross)	N/A	7%	154%	80%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	1,797,882	13,859,112	15,656,994
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	1,797,882	13,859,112	15,656,994
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-179,788	-1,385,911	-1,565,699
		Net Adjusted Savings (kWh/yr)	0	1,618,094	12,473,201	14,091,294
		Planned Net Savings (kWh/yr)	0	4,608,702	4,608,702	9,217,404
		Annual % Toward Planned Net Savings	N/A	35.1%	270.6%	152.9%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	898,941	322,305	347,933
		Avg. Net Savings per Participant (kWh/yr)	N/A	809,047	290,074	313,140
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	47.2	315.9	363.1
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	47.2	315.9	363.1
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-4.7	-31.6	-36.3
		Net Adjusted Demand Reduction (kW)	0.0	42.4	284.3	326.8
		Planned Net Savings (kW)	0.0	465.0	465.0	930.0
		Annual % Toward Planned Net Reduction	N/A	9.13%	61.1%	35.1%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	23.6	7.3	8.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	21.2	6.6	7.3
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	11.7	22.7	34.4
		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)	-	11.7	22.7	34.4
		Net-To-Gross Rate Weighted by Measure	-	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-1.2	-2.3	-3.4
		Net Adjusted Demand Reduction (kW)	-	10.5	20.4	30.9
		Planned Net Savings (kW)	0.0	2,446.8	2,446.8	4,893.6
		Annual % Toward Planned Net Reduction	-	0.43%	0.84%	0.63%
		Avg. Gross Demand Reduction per Participant (kW)	-	5.8	0.5	0.8
		Avg. Net Demand Reduction per Participant (kW)	-	5.3	0.5	0.7
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$10,673	\$2,356	\$2,356
		\$Admin. per kWh/year (Gross)	N/A	\$0.01	\$0.01	\$0.01
		\$Admin. per kW (Gross)	N/A	\$453	\$292	\$292
		\$EM&V per \$Total	35.2%	15.8%	9.7%	9.7%
		\$Rebate per Participant (Gross)	N/A	\$39,890	\$15,011	\$15,011

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J.33.2 2023 Virginia Non-Residential Building Optimization Program (IX) Monthly Indicator Tables

VA - Non-Residential Building Optimization 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)	\$11,083	\$2,388	\$2,738	\$7,057	\$12,466	\$9,130	\$6,024	\$2,624	\$4,846	\$13,907	\$4,322	\$8,073	\$84,657			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)	Total		\$164,026	\$35,338	\$40,521	\$104,449	\$184,497	\$135,121	\$99,152	\$38,840	\$71,721	\$205,822	\$63,967	\$119,479	\$1,252,932			
Costs (\$)	Planned		\$67,695	\$67,695	\$67,695	\$67,695	\$67,695	\$67,695	\$101,542	\$101,542	\$101,542	\$101,542	\$101,542	\$101,542	\$1,015,424			
Costs (\$)	Variance		\$96,331	-\$32,357	-\$27,174	\$36,754	\$116,802	\$67,426	-\$12,390	-\$62,702	-\$29,821	\$104,280	-\$37,575	\$17,936	\$237,507			
	Annual % of Planned		16.2%	19.6%	23.6%	33.9%	52.1%	65.4%	74.2%	78.0%	85.1%	105.3%	111.6%	123.4%	123%			
Participants <sup>1</sup>	Total (Gross)		4	1	1	5	8	4	3	1	3	10	2	1	43			
	Planned		6	2	2	2	2	2	2	2	2	2	2	2	28			
	Variance		-2	-1	-1	3	6	2	1	-1	1	8	0	-1	15			
	Annual % of Planned (Gross)		14%	18%	21%	39%	69%	82%	93%	96%	107%	143%	150%	154%	154%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	2,782,751	16,308	28,744	741,225	1,478,212	2,213,810	829,812	64,109	423,451	4,670,355	456,872	153,462	13,859,112			
		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)	2,782,751	16,308	28,744	741,225	1,478,212	2,213,810	829,812	64,109	423,451	4,670,355	456,872	153,462	13,859,112			
		90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Rate Weighted by Measure	2,504,476	14,677	25,870	667,103	1,330,391	1,992,429	746,831	57,698	381,106	4,203,319	411,185	138,116	12,473,201			
		Net-To-Gross Adjustment (kWh/yr)	-278,275	-1,631	-2,874	-74,123	-147,821	-221,381	-82,981	-6,411	-42,345	-467,035	-45,687	-15,346	-1,385,911			
		Net Adjusted Savings (kWh/yr)	987,579	329,193	329,193	329,193	329,193	329,193	329,193	329,193	329,193	329,193	329,193	329,193	4,608,702			
		Planned Net Savings (kWh/yr)	54.3%	54.7%	55.2%	69.7%	98.6%	141.8%	158.0%	159.3%	167.5%	258.7%	267.6%	270.6%	270.6%			
		Annual % Toward Planned Net Savings	695,688	16,308	28,744	148,245	184,777	553,453	276,604	64,109	141,150	467,035	228,436	153,462	322,305			
		Avg. Gross Savings per Participant (kWh/yr)	626,119	14,677	28,870	133,421	166,299	498,107	248,944	57,698	127,035	420,332	205,592	138,116	290,074			
		Avg. Net Savings per Participant (kWh/yr)																
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	66.7	0.0	0.0	53.2	29.5	40.2	24.8	0.0	5.2	24.8	21.1	50.4	315.9			
		Realization Rate Weighted by Measure	100%	N/A	N/A	100%	100%	100%	100%	N/A	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)	66.7	0.0	0.0	53.2	29.5	40.2	24.8	0.0	5.2	24.8	21.1	50.4	315.9			
		90%	90%	N/A	N/A	90%	90%	90%	90%	N/A	90%	90%	90%	90%	90%			
		Net-To-Gross Rate Weighted by Measure	-6.7	0.0	0.0	-5.3	-3.0	-4.0	-2.5	0.0	-0.5	-2.5	-2.1	-5.0	-31.6			
		Net-To-Gross Adjustment (kW)	60.0	0.0	0.0	47.9	26.6	36.1	22.4	0.0	4.7	22.4	19.0	45.4	284.3			
		Net Adjusted Demand Reduction (kW)	99.6	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	465.0			
		Planned Net Savings (kW)	12.9%	12.9%	12.9%	23.2%	28.9%	36.7%	41.5%	41.5%	42.5%	47.3%	51.4%	61.1%	61.1%			
		Annual % Toward Planned Net Reduction	16.7	0.0	0.0	10.6	3.7	10.0	8.3	0.0	1.7	2.5	10.5	50.4	7.3			
		Avg. Gross Demand Reduction per Participant (kW)	15.0	0.0	0.0	9.6	3.3	9.0	7.5	0.0	1.6	2.2	9.5	45.4	6.6			
		Avg. Net Demand Reduction per Participant (kW)																
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	9.2	4.4	0.0	0.0	0.0	3.8	5.3	0.0	0.0	22.7			
		Realization Rate Weighted by Measure	N/A	N/A	N/A	100%	100%	N/A	N/A	N/A	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	0.0	0.0	0.0	0.0			
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	9.2	4.4	0.0	0.0	0.0	3.8	5.3	0.0	0.0	22.7			
		90%	N/A	N/A	N/A	90%	90%	N/A	N/A	N/A	90%	90%	N/A	N/A	90%			
		Net-To-Gross Rate Weighted by Measure	0.0	0.0	0.0	-0.9	-0.4	0.0	0.0	0.0	-0.4	-0.5	0.0	0.0	-2.3			
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	8.3	4.0	0.0	0.0	0.0	3.4	4.8	0.0	0.0	20.4			
		Net Adjusted Demand Reduction (kW)	524.3	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	2,446.8			
		Planned Net Savings (kW)	0%	0%	0%	0.34%	0.50%	0.50%	0.50%	0.50%	0.64%	0.84%	0.84%	0.84%	0.84%			
		Annual % Toward Planned Net Reduction	0.0	0.0	0.0	1.8	0.5	0.0	0.0	0.0	1.3	0.5	0.0	0.0	0.5			
		Avg. Gross Demand Reduction per Participant (kW)	0.0	0.0	0.0	1.7	0.5	0.0	0.0	0.0	1.1	0.5	0.0	0.0	0.5			
		Avg. Net Demand Reduction per Participant (kW)																
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$5,405	\$4,974	\$4,694	\$3,432	\$2,718	\$2,648	\$2,580	\$2,581	\$2,491	\$2,229	\$2,226	\$2,356	\$2,356			
		\$Admin. per kWh/year (Gross)	\$0.01	\$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)	\$285	\$306	\$330	\$267	\$290	\$280	\$276	\$286	\$299	\$321	\$313	\$292	\$292			
		SEM&V per \$Total	12.5%	12.4%	12.6%	12.4%	11.3%	11.3%	11.4%	11.2%	11.2%	10.2%	10.1%	9.7%	9.7%			
		\$Rebate per Participant (Gross)	\$32,102	\$28,146	\$25,407	\$19,487	\$17,274	\$17,350	\$16,904	\$16,497	\$15,873	\$15,195	\$15,081	\$15,011	\$15,011			

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J.33.3 2021-2023 Virginia Non-Residential Building Optimization Program (IX) Measure Indicator Tables

VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
Installed kWh/year	Chilled Water Reset	Total Participants	0	0	2	2
	Chilled Water Reset	Total Gross Energy Savings (kWh/yr)	0	0	16,088	16,088
	Chilled Water Reset	Realization Rate	N/A	N/A	100%	100%
	Chilled Water Reset	Net-To-Gross Rate	N/A	N/A	90%	90%
	Chilled Water Reset	Net Adjusted Savings (kWh/yr)	0	0	14,479	14,479
	Chilled Water Reset	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	8,044	8,044
	Chilled Water Reset	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	7,240	7,240
Installed Summer peak kW	Chilled Water Reset	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Chilled Water Reset	Realization Rate	N/A	N/A	N/A	N/A
	Chilled Water Reset	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Chilled Water Reset	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Chilled Water Reset	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
	Chilled Water Reset	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
Installed Winter peak kW	Chilled Water Reset	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Chilled Water Reset	Realization Rate	-	-	N/A	N/A
	Chilled Water Reset	Net-To-Gross Rate	-	-	N/A	N/A
	Chilled Water Reset	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Chilled Water Reset	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Chilled Water Reset	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
Installed kWh/year	Coil Cleaning	Total Participants	0	2	13	15
	Coil Cleaning	Total Gross Energy Savings (kWh/yr)	0	24,746	227,070	251,816
	Coil Cleaning	Realization Rate	N/A	100%	100%	100%
	Coil Cleaning	Net-To-Gross Rate	N/A	90%	90%	90%
	Coil Cleaning	Net Adjusted Savings (kWh/yr)	0	22,271	204,363	226,635
	Coil Cleaning	Avg. Gross Savings per Participant (kWh/yr)	N/A	12,373	17,467	16,788
	Coil Cleaning	Avg. Net Savings per Participant (kWh/yr)	N/A	11,136	15,720	15,109
Installed Summer peak kW	Coil Cleaning	Total Gross Demand Reduction (kW)	0.0	21.5	195.4	217.0
	Coil Cleaning	Realization Rate	N/A	100%	100%	100%
	Coil Cleaning	Net-To-Gross Rate	N/A	90%	90%	90%
	Coil Cleaning	Net Adjusted Demand Reduction (kW)	0.0	19.4	175.9	195.3
	Coil Cleaning	Avg. Gross Demand Reduction per Participant (kW)	N/A	10.8	15.0	14.5
	Coil Cleaning	Avg. Net Demand Reduction per Participant (kW)	N/A	9.7	13.5	13.0
Installed Winter peak kW	Coil Cleaning	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Coil Cleaning	Realization Rate	-	N/A	N/A	N/A
	Coil Cleaning	Net-To-Gross Rate	-	N/A	N/A	N/A
	Coil Cleaning	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Coil Cleaning	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Coil Cleaning	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
Installed kWh/year	Condenser Temperature Reset	Total Participants	0	0	1	1
	Condenser Temperature Reset	Total Gross Energy Savings (kWh/yr)	0	0	78,141	78,141
	Condenser Temperature Reset	Realization Rate	N/A	N/A	100%	100%
	Condenser Temperature Reset	Net-To-Gross Rate	N/A	N/A	90%	90%
	Condenser Temperature Reset	Net Adjusted Savings (kWh/yr)	0	0	70,327	70,327
	Condenser Temperature Reset	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	78,141	78,141
	Condenser Temperature Reset	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	70,327	70,327
Installed Summer peak kW	Condenser Temperature Reset	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Condenser Temperature Reset	Realization Rate	N/A	N/A	N/A	N/A
	Condenser Temperature Reset	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Condenser Temperature Reset	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Condenser Temperature Reset	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
	Condenser Temperature Reset	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
Installed Winter peak kW	Condenser Temperature Reset	Total Gross Demand Reduction (kW)	-	-	0.0	0.0

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VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Condenser Temperature Reset	Realization Rate	-	-	N/A	N/A
	Condenser Temperature Reset	Net-To-Gross Rate	-	-	N/A	N/A
	Condenser Temperature Reset	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Condenser Temperature Reset	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Condenser Temperature Reset	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Discharge Air Temperature Reset (electric heat)	Total Participants	0	2	6	8
Installed kWh/year	Discharge Air Temperature Reset (electric heat)	Total Gross Energy Savings (kWh/yr)	0	130,927	571,641	702,568
	Discharge Air Temperature Reset (electric heat)	Realization Rate	N/A	100%	100%	100%
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	N/A	90%	90%	90%
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Savings (kWh/yr)	0	117,834	514,477	632,311
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	65,463	95,274	87,821
	Discharge Air Temperature Reset (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	58,917	85,746	79,039
Installed Summer peak kW	Discharge Air Temperature Reset (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Realization Rate	N/A	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
Installed Winter peak kW	Discharge Air Temperature Reset (electric heat)	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Realization Rate	-	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net-To-Gross Rate	-	N/A	N/A	N/A
	Discharge Air Temperature Reset (electric heat)	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Discharge Air Temperature Reset (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Discharge Air Temperature Reset (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Dual Enthalpy Economizer Control	Total Participants	0	0	4	4
Installed kWh/year	Dual Enthalpy Economizer Control	Total Gross Energy Savings (kWh/yr)	0	0	128,024	128,024
	Dual Enthalpy Economizer Control	Realization Rate	N/A	N/A	100%	100%
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	N/A	N/A	90%	90%
	Dual Enthalpy Economizer Control	Net Adjusted Savings (kWh/yr)	0	0	115,221	115,221
	Dual Enthalpy Economizer Control	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	32,006	32,006
	Dual Enthalpy Economizer Control	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	28,805	28,805
Installed Summer peak kW	Dual Enthalpy Economizer Control	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Realization Rate	N/A	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Dual Enthalpy Economizer Control	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
Installed Winter peak kW	Dual Enthalpy Economizer Control	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Dual Enthalpy Economizer Control	Realization Rate	-	-	N/A	N/A
	Dual Enthalpy Economizer Control	Net-To-Gross Rate	-	-	N/A	N/A
	Dual Enthalpy Economizer Control	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Dual Enthalpy Economizer Control	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Dual Enthalpy Economizer Control	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Night Temperature Setback	Total Participants	0	2	11	13
Installed kWh/year	Night Temperature Setback	Total Gross Energy Savings (kWh/yr)	0	171,510	652,986	824,496
	Night Temperature Setback	Realization Rate	N/A	100%	100%	100%
	Night Temperature Setback	Net-To-Gross Rate	N/A	90%	90%	90%
	Night Temperature Setback	Net Adjusted Savings (kWh/yr)	0	154,359	587,687	742,046
	Night Temperature Setback	Avg. Gross Savings per Participant (kWh/yr)	N/A	85,755	59,362	63,423
	Night Temperature Setback	Avg. Net Savings per Participant (kWh/yr)	N/A	77,180	53,426	57,080
Installed Summer peak kW	Night Temperature Setback	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Night Temperature Setback	Realization Rate	N/A	N/A	N/A	N/A



VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Night Temperature Setback	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Night Temperature Setback	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Night Temperature Setback	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Night Temperature Setback	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
Installed Winter peak kW	Night Temperature Setback	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Night Temperature Setback	Realization Rate	-	N/A	N/A	N/A
	Night Temperature Setback	Net-To-Gross Rate	-	N/A	N/A	N/A
	Night Temperature Setback	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Night Temperature Setback	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Night Temperature Setback	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Outdoor Air Reduction	Total Participants	0	1	3	4
Installed kWh/year	Outdoor Air Reduction	Total Gross Energy Savings (kWh/yr)	0	2,104	32,076	34,180
	Outdoor Air Reduction	Realization Rate	N/A	100%	100%	100%
	Outdoor Air Reduction	Net-To-Gross Rate	N/A	90%	90%	90%
	Outdoor Air Reduction	Net Adjusted Savings (kWh/yr)	0	1,894	28,868	30,762
	Outdoor Air Reduction	Avg. Gross Savings per Participant (kWh/yr)	N/A	2,104	10,692	8,545
	Outdoor Air Reduction	Avg. Net Savings per Participant (kWh/yr)	N/A	1,894	9,623	7,690
Installed Summer peak kW	Outdoor Air Reduction	Total Gross Demand Reduction (kW)	0.0	5.5	84.3	89.8
	Outdoor Air Reduction	Realization Rate	N/A	100%	100%	100%
	Outdoor Air Reduction	Net-To-Gross Rate	N/A	90%	90%	90%
	Outdoor Air Reduction	Net Adjusted Demand Reduction (kW)	0.0	5.0	75.9	80.9
	Outdoor Air Reduction	Avg. Gross Demand Reduction per Participant (kW)	N/A	5.5	28.1	22.5
	Outdoor Air Reduction	Avg. Net Demand Reduction per Participant (kW)	N/A	5.0	25.3	20.2
Installed Winter peak kW	Outdoor Air Reduction	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Outdoor Air Reduction	Realization Rate	-	N/A	N/A	N/A
	Outdoor Air Reduction	Net-To-Gross Rate	-	N/A	N/A	N/A
	Outdoor Air Reduction	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Outdoor Air Reduction	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Outdoor Air Reduction	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Pump Pressure Reduction	Total Participants	0	0	0	0
Installed kWh/year	Pump Pressure Reduction	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Pump Pressure Reduction	Realization Rate	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Pump Pressure Reduction	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
Installed Summer peak kW	Pump Pressure Reduction	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Pump Pressure Reduction	Realization Rate	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Pump Pressure Reduction	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Pump Pressure Reduction	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
Installed Winter peak kW	Pump Pressure Reduction	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Pump Pressure Reduction	Realization Rate	-	-	-	N/A
	Pump Pressure Reduction	Net-To-Gross Rate	-	-	-	N/A
	Pump Pressure Reduction	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Pump Pressure Reduction	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-
	Pump Pressure Reduction	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Reduce VAV Box Minimum Position (electric heat)	Total Participants	0	0	1	1
Installed kWh/year	Reduce VAV Box Minimum Position (electric heat)	Total Gross Energy Savings (kWh/yr)	0	0	1,290	1,290
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	N/A	N/A	100%	100%
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	N/A	N/A	90%	90%



VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Savings (kWh/yr)	0	0	1,161	1,161
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,290	1,290
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,161	1,161
Installed Summer peak kW	Reduce VAV Box Minimum Position (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
Installed Winter peak kW	Reduce VAV Box Minimum Position (electric heat)	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Realization Rate	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net-To-Gross Rate	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (electric heat)	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Reduce VAV Box Minimum Position (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Reduce VAV Box Minimum Position (gas heat)	Total Participants	0	0	1	1
Installed kWh/year	Reduce VAV Box Minimum Position (gas heat)	Total Gross Energy Savings (kWh/yr)	0	0	3,632	3,632
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	N/A	N/A	100%	100%
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	N/A	N/A	90%	90%
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Savings (kWh/yr)	0	0	3,269	3,269
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	3,632	3,632
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	3,269	3,269
Installed Summer peak kW	Reduce VAV Box Minimum Position (gas heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.0	0.0
Installed Winter peak kW	Reduce VAV Box Minimum Position (gas heat)	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Realization Rate	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net-To-Gross Rate	-	-	N/A	N/A
	Reduce VAV Box Minimum Position (gas heat)	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Reduce VAV Box Minimum Position (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Reduce VAV Box Minimum Position (gas heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule Equipment	Total Participants	0	2	9	11
Installed kWh/year	Schedule Equipment	Total Gross Energy Savings (kWh/yr)	0	65,232	357,494	422,726
	Schedule Equipment	Realization Rate	N/A	100%	100%	100%
	Schedule Equipment	Net-To-Gross Rate	N/A	90%	90%	90%
	Schedule Equipment	Net Adjusted Savings (kWh/yr)	0	58,709	321,745	380,454
	Schedule Equipment	Avg. Gross Savings per Participant (kWh/yr)	N/A	32,616	39,722	38,430
	Schedule Equipment	Avg. Net Savings per Participant (kWh/yr)	N/A	29,354	35,749	34,587
Installed Summer peak kW	Schedule Equipment	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule Equipment	Realization Rate	N/A	N/A	N/A	N/A
	Schedule Equipment	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Schedule Equipment	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule Equipment	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule Equipment	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
Installed Winter peak kW	Schedule Equipment	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Schedule Equipment	Realization Rate	-	N/A	N/A	N/A
	Schedule Equipment	Net-To-Gross Rate	-	N/A	N/A	N/A
	Schedule Equipment	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Schedule Equipment	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-



VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
	Schedule Equipment	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Schedule HVAC (electric heat)	Total Participants	0	1	31	32
Installed kWh/year	Schedule HVAC (electric heat)	Total Gross Energy Savings (kWh/yr)	0	571,446	6,865,730	7,437,176
	Schedule HVAC (electric heat)	Realization Rate	N/A	100%	100%	100%
	Schedule HVAC (electric heat)	Net-To-Gross Rate	N/A	90%	90%	90%
	Schedule HVAC (electric heat)	Net Adjusted Savings (kWh/yr)	0	514,301	6,179,157	6,693,458
	Schedule HVAC (electric heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	571,446	221,475	232,412
	Schedule HVAC (electric heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	514,301	199,328	209,171
	Schedule HVAC (electric heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Realization Rate	N/A	N/A	N/A	N/A
	Schedule HVAC (electric heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Schedule HVAC (electric heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule HVAC (electric heat)	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Schedule HVAC (electric heat)	Realization Rate	-	-	N/A	N/A
	Schedule HVAC (electric heat)	Net-To-Gross Rate	-	-	N/A	N/A
	Schedule HVAC (electric heat)	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Schedule HVAC (electric heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule HVAC (electric heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule HVAC (gas heat)	Total Participants	0	1	23	24
Installed kWh/year	Schedule HVAC (gas heat)	Total Gross Energy Savings (kWh/yr)	0	266,867	3,247,756	3,514,623
	Schedule HVAC (gas heat)	Realization Rate	N/A	100%	100%	100%
	Schedule HVAC (gas heat)	Net-To-Gross Rate	N/A	90%	90%	90%
	Schedule HVAC (gas heat)	Net Adjusted Savings (kWh/yr)	0	240,180	2,922,981	3,163,161
	Schedule HVAC (gas heat)	Avg. Gross Savings per Participant (kWh/yr)	N/A	266,867	141,207	146,443
	Schedule HVAC (gas heat)	Avg. Net Savings per Participant (kWh/yr)	N/A	240,180	127,086	131,798
	Schedule HVAC (gas heat)	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Realization Rate	N/A	N/A	N/A	N/A
	Schedule HVAC (gas heat)	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Schedule HVAC (gas heat)	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule HVAC (gas heat)	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Schedule HVAC (gas heat)	Realization Rate	-	-	N/A	N/A
	Schedule HVAC (gas heat)	Net-To-Gross Rate	-	-	N/A	N/A
	Schedule HVAC (gas heat)	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Schedule HVAC (gas heat)	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule HVAC (gas heat)	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule Lighting	Total Participants	0	1	3	4
Installed kWh/year	Schedule Lighting	Total Gross Energy Savings (kWh/yr)	0	377,990	1,015,278	1,393,268
	Schedule Lighting	Realization Rate	N/A	100%	100%	100%
	Schedule Lighting	Net-To-Gross Rate	N/A	90%	90%	90%
	Schedule Lighting	Net Adjusted Savings (kWh/yr)	0	340,191	913,750	1,253,941
	Schedule Lighting	Avg. Gross Savings per Participant (kWh/yr)	N/A	377,990	338,426	348,317
	Schedule Lighting	Avg. Net Savings per Participant (kWh/yr)	N/A	340,191	304,583	313,485
	Schedule Lighting	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule Lighting	Realization Rate	N/A	N/A	N/A	N/A
	Schedule Lighting	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Schedule Lighting	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Schedule Lighting	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Schedule Lighting	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0



VA - Non-Residential Building Optimization Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
Installed Winter peak kW	Schedule Lighting	Total Gross Demand Reduction (kW)	-	-	0.0	0.0
	Schedule Lighting	Realization Rate	-	-	N/A	N/A
	Schedule Lighting	Net-To-Gross Rate	-	-	N/A	N/A
	Schedule Lighting	Net Adjusted Demand Reduction (kW)	-	-	0.0	0.0
	Schedule Lighting	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.0	-
	Schedule Lighting	Avg. Net Demand Reduction per Participant (kW)	-	-	0.0	-
Installed kWh/year	Static Pressure Reset	Total Participants	0	1	4	5
	Static Pressure Reset	Total Gross Energy Savings (kWh/yr)	0	64,575	118,951	183,526
	Static Pressure Reset	Realization Rate	N/A	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	N/A	90%	90%	90%
	Static Pressure Reset	Net Adjusted Savings (kWh/yr)	0	58,118	107,056	165,173
	Static Pressure Reset	Avg. Gross Savings per Participant (kWh/yr)	N/A	64,575	29,738	36,705
	Static Pressure Reset	Avg. Net Savings per Participant (kWh/yr)	N/A	58,118	26,764	33,035
Installed Summer peak kW	Static Pressure Reset	Total Gross Demand Reduction (kW)	0.0	20.1	36.2	56.3
	Static Pressure Reset	Realization Rate	N/A	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	N/A	90%	90%	90%
	Static Pressure Reset	Net Adjusted Demand Reduction (kW)	0.0	18.1	32.6	50.7
	Static Pressure Reset	Avg. Gross Demand Reduction per Participant (kW)	N/A	20.1	9.0	11.3
	Static Pressure Reset	Avg. Net Demand Reduction per Participant (kW)	N/A	18.1	8.1	10.1
Installed Winter peak kW	Static Pressure Reset	Total Gross Demand Reduction (kW)	-	11.7	22.7	34.4
	Static Pressure Reset	Realization Rate	-	100%	100%	100%
	Static Pressure Reset	Net-To-Gross Rate	-	90%	90%	90%
	Static Pressure Reset	Net Adjusted Demand Reduction (kW)	-	10.5	20.4	30.9
	Static Pressure Reset	Avg. Gross Demand Reduction per Participant (kW)	-	11.7	5.7	6.9
	Static Pressure Reset	Avg. Net Demand Reduction per Participant (kW)	-	10.5	5.1	6.2
Installed kWh/year	Temperature Setup	Total Participants	0	2	7	9
	Temperature Setup	Total Gross Energy Savings (kWh/yr)	0	122,485	542,955	665,440
	Temperature Setup	Realization Rate	N/A	100%	100%	100%
	Temperature Setup	Net-To-Gross Rate	N/A	90%	90%	90%
	Temperature Setup	Net Adjusted Savings (kWh/yr)	0	110,236	488,660	598,896
	Temperature Setup	Avg. Gross Savings per Participant (kWh/yr)	N/A	61,242	77,565	73,938
Installed Summer peak kW	Temperature Setup	Avg. Net Savings per Participant (kWh/yr)	N/A	55,118	69,809	66,544
	Temperature Setup	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Temperature Setup	Realization Rate	N/A	N/A	N/A	N/A
	Temperature Setup	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Temperature Setup	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Temperature Setup	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
Installed Winter peak kW	Temperature Setup	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Temperature Setup	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Temperature Setup	Realization Rate	-	N/A	N/A	N/A
	Temperature Setup	Net-To-Gross Rate	-	N/A	N/A	N/A
	Temperature Setup	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Temperature Setup	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
Temperature Setup	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-	

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J.33.4 2021-2023 Virginia Non-Residential Building Optimization Program (IX) Comparison of Savings to Usage by Rate Schedule

Program Acronym	Rate	Rate Schedule	Average Net Impact Per Part	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
CBOT	114	Schedule G5-2T	63740.37192	164596.5	0.387252292	541550.383	0.1176998
CBOT	117	Schedule G5-3	360838.5796	164596.5	2.192261558	7105430.618	0.050783492
CBOT	130	Schedule 10	391996.888	164596.5	2.381562719	3584793.852	0.109349911
CBOT	183	Schedule 10	391996.888	164596.5	2.381562719	Not Available	Not Available
CBOT	227	Schedule G5-2	81985.5282	164596.5	0.49810007	379494.9816	0.248821781
CBOT	261	Schedule 10	391996.888	164596.5	2.381562719	Not Available	Not Available
CBOT	262	Schedule 10	391996.888	164596.5	2.381562719	Not Available	Not Available
CBOT	All Codes	All Rates	313139.8736	164596.5	1.902469619	Not Available	Not Available

J.33.5 2021-2023 Virginia Non-Residential Building Optimization Program (IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Non-Residential Building Optimization	2020	VA	PUR-2020-00274	4.48	3.38	3.15	1.09
9	Non-Residential Building Optimization	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Non-Residential Building Optimization	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Non-Residential Building Optimization	2023	VA	PUR-2023-00217	17.88	6.61	5.95	0.65
9	Non-Residential Building Optimization	2024	VA	EM&V Report	9.75	4.74	4.3	0.75



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**J.34 Virginia Non-Residential Engagement Program (Phase XI) 2021-2023**

**J.34.1 2021-2023 Virginia Non-Residential Engagement Program (Phase XI) Annual Indicator Tables**

VA - Non-Residential Engagement 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	\$8,109	\$599,509	\$547,994	\$1,155,612
Costs (\$)		Planned	\$0	\$1,536,746	\$1,449,187	\$2,985,933
Costs (\$)		Variance	\$8,109	-\$937,237	-\$901,193	-\$1,830,321
		Annual % of Planned	N/A	39%	38%	39%
Participants <sup>1</sup>		Total (Gross)	0	0	0	0
		Planned	0	54	54	108
		Variance	0	-54	-54	-108
		Annual % of Planned (Gross)	N/A	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0	0
		Planned Net Savings (kWh/yr)	0	3,975,577	3,975,577	7,951,154
		Annual % Toward Planned Net Savings	N/A	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	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
		Realization Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A	N/A
		Net-To-Gross Adjustment (kW)	0.0	0.0	0.0	0.0
		Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
		Planned Net Savings (kW)	0.0	401.0	401.0	801.9
		Annual % Toward Planned Net Reduction	N/A	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
Measures						
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A
		\$EM&V per \$Total	43.4%	7.7%	5.2%	5.2%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A	N/A

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J.34.2 2023 Virginia Non-Residential Engagement Program (Phase XI) Monthly Indicator Tables

VA - Non-Residential Engagement 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)	\$2,457	\$2,447	\$2,601	\$2,473	\$2,619	\$2,446	\$2,456	\$2,487	\$2,464	\$2,454	\$2,520	\$9,602	\$37,026	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$36,362	\$36,212	\$38,502	\$36,597	\$38,767	\$36,201	\$36,351	\$36,804	\$36,473	\$36,316	\$37,296	\$142,113	\$547,994	
Costs (\$)		Planned	\$96,612	\$96,612	\$96,612	\$96,612	\$96,612	\$96,612	\$144,919	\$144,919	\$144,919	\$144,919	\$144,919	\$144,919	\$1,449,187	
Costs (\$)		Variance	-\$60,251	-\$60,400	-\$58,110	-\$60,015	-\$57,845	-\$60,412	-\$108,568	-\$108,115	-\$108,446	-\$108,603	-\$107,623	-\$2,805	-\$901,193	
		Annual % of Planned	2.5%	5.0%	7.7%	10.2%	12.9%	15.4%	17.9%	20.4%	22.9%	25.4%	28.0%	37.8%	38%	
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned	10	4	4	4	4	4	4	4	4	4	4	4	54	
		Variance	-10	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4	-54	
		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	
		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)	736,218	294,487	294,487	294,487	294,487	294,487	294,487	294,487	294,487	294,487	294,487	294,487	3,975,577	
		Annual % Toward Planned Net Savings	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	
		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)	74.3	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	401.0	
		Annual % Toward Planned Net Reduction	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	
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-	
		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)	390.9	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	2,110.7	
		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	
		\$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	
		\$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	7.4%	7.1%	6.8%	6.7%	6.7%	6.5%	6.4%	6.2%	6.1%	5.9%	5.9%	5.2%	5.2%	
		\$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	

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J.34.3 2021-2023 Virginia Non-Residential Engagement Program (Phase XI) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Non-Residential Engagement	2020	VA	PUR-2020-00274	++	1.90	3.07	0.85
9	Non-Residential Engagement	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Non-Residential Engagement	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Non-Residential Engagement	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
9	Non-Residential Engagement	2024	VA	EM&V Report				



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**J.35 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX)  
2021-2023**

**J.35.1 2021-2023 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX) Annual Indicator Tables**

VA - Non-Residential Prescriptive Enhanced 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	\$33,042	\$5,652,798	\$10,122,762	\$15,808,601
Costs (\$)		Planned	\$0	\$4,229,167	\$4,018,740	\$8,247,907
Costs (\$)		Variance	\$33,042	\$1,423,631	\$6,104,022	\$7,560,695
		Annual % of Planned	N/A	134%	252%	192%
Participants <sup>†</sup>		Total (Gross)	0	366	595	961
		Planned	0	564	564	1,128
		Variance	0	-198	31	-167
		Annual % of Planned (Gross)	N/A	65%	105%	85%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	8,848,159	14,350,446	23,198,606
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kWh/yr)	0	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	8,848,159	14,350,446	23,198,606
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kWh/yr)	0	-884,816	-1,435,045	-2,319,861
		Net Adjusted Savings (kWh/yr)	0	7,963,344	12,915,402	20,878,745
		Planned Net Savings (kWh/yr)	0	15,227,492	15,227,492	30,454,985
		Annual % Toward Planned Net Savings	N/A	52.3%	84.8%	68.6%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	24,175	24,118	24,140
		Avg. Net Savings per Participant (kWh/yr)	N/A	21,758	21,707	21,726
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	0.0	5,597.9	14,720.9	20,318.9
		Realization Rate Weighted by Measure	N/A	100%	100%	100%
		Realization Rate Adjustment (kW)	0.0	0.0	0.0	0.0
		Realization Rate Adjusted Gross Demand Reduction (kW)	0.0	5,597.9	14,720.9	20,318.9
		Net-To-Gross Rate Weighted by Measure	N/A	90%	90%	90%
		Net-To-Gross Adjustment (kW)	0.0	-559.8	-1,472.1	-2,031.9
		Net Adjusted Demand Reduction (kW)	0.0	5,038.2	13,248.8	18,287.0
		Planned Net Savings (kW)	0.0	3,222.4	3,222.4	6,444.8
		Annual % Toward Planned Net Reduction	N/A	156.3%	411.2%	283.7%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	15.3	24.7	21.1
		Avg. Net Demand Reduction per Participant (kW)	N/A	13.8	22.3	19.0
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	-	853.6	3,846.0	4,699.5
		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)	-	853.6	3,846.0	4,699.5
		Net-To-Gross Rate Weighted by Measure	-	90%	90%	90%
		Net-To-Gross Adjustment (kW)	-	-85.4	-384.6	-470.0
		Net Adjusted Demand Reduction (kW)	-	768.2	3,461.4	4,229.6
		Planned Net Savings (kW)	0.0	2,361.2	2,361.2	4,722.3
		Annual % Toward Planned Net Reduction	-	32.5%	146.6%	89.6%
		Avg. Gross Demand Reduction per Participant (kW)	-	2.3	6.5	4.9
		Avg. Net Demand Reduction per Participant (kW)	-	2.1	5.8	4.4
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$649	\$959	\$959
		\$Admin. per kWh/year (Gross)	N/A	\$0.03	\$0.04	\$0.04
		\$Admin. per kW (Gross)	N/A	\$42	\$45	\$45
		\$EM&V per \$Total	80.2%	3.8%	2.4%	2.4%
		\$Rebate per Participant (Gross)	N/A	\$11,883	\$13,164	\$13,164

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J.35.2 2023 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX) Monthly Indicator Tables

VA - 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)	\$57,335	\$65,892	\$56,915	\$28,646	\$114,885	\$99,755	\$61,626	\$40,620	\$43,468	\$49,476	\$33,694	\$31,656	\$883,968			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$948,560	\$975,206	\$942,340	\$423,966	\$1,700,303	\$1,476,387	\$912,061	\$601,174	\$643,336	\$732,248	\$498,668	\$468,512	\$10,122,762			
Costs (\$)		Planned	\$267,916	\$267,916	\$267,916	\$267,916	\$267,916	\$267,916	\$401,874	\$401,874	\$401,874	\$401,874	\$401,874	\$401,874	\$4,018,740			
Costs (\$)		Variance	\$680,644	\$707,290	\$674,424	\$156,050	\$1,432,387	\$1,208,471	\$510,187	\$199,300	\$241,462	\$330,374	\$96,794	\$66,638	\$6,104,022			
		Annual % of Planned	21.1%	45.4%	66.3%	76.9%	119.2%	155.9%	178.6%	193.6%	209.6%	227.8%	240.2%	251.9%	252%			
Participants <sup>1</sup>		Total (Gross)	31	39	85	47	57	73	48	34	43	73	63	32	595			
		Planned	47	47	47	47	47	47	47	47	47	47	47	47	564			
		Variance	-16	-8	8	8	10	26	1	-13	-4	26	16	-15	31			
		Annual % of Planned (Gross)	5%	12%	22%	30%	41%	54%	62%	68%	76%	89%	100%	105%	105%			
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	3,034,295	3,713,114	1,231,853	715,883	1,495,440	1,223,251	683,354	402,867	488,852	664,197	465,837	231,504	14,350,446			
		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)	3,034,295	3,713,114	1,231,853	715,883	1,495,440	1,223,251	683,354	402,867	488,852	664,197	465,837	231,504	14,350,446			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kWh/yr)	-303,430	-371,311	-123,185	-71,588	-149,544	-122,325	-68,335	-40,287	-48,885	-66,420	-46,584	-23,150	-1,435,045			
		Net Adjusted Savings (kWh/yr)	2,730,866	3,341,803	1,108,667	644,295	1,345,896	1,100,926	615,018	362,580	439,967	597,777	419,253	208,354	12,915,402			
		Planned Net Savings (kWh/yr)	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	1,268,958	15,227,482			
		Annual % Toward Planned Net Savings	17.9%	39.9%	47.2%	51.4%	60.2%	67.5%	71.5%	73.9%	76.8%	80.7%	83.4%	84.8%	84.8%			
		Avg. Gross Savings per Participant (kWh/yr)	97,880	95,208	22,397	15,232	26,236	16,757	14,237	11,849	11,369	9,099	7,394	7,235	24,118			
		Avg. Net Savings per Participant (kWh/yr)	88,092	85,687	20,158	13,708	23,612	15,081	12,813	10,654	10,232	8,189	6,655	6,511	21,707			
Installed Summer peak kW	Total	Total Gross Demand Reduction (kW)	1,174.0	2,805.6	869.6	494.1	4,251.5	1,361.4	2,590.9	238.1	303.5	347.2	179.9	105.3	14,720.9			
		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)	1,174.0	2,805.6	869.6	494.1	4,251.5	1,361.4	2,590.9	238.1	303.5	347.2	179.9	105.3	14,720.9			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kW)	-117.4	-280.6	-87.0	-49.4	-425.1	-136.1	-269.1	-23.8	-30.3	-34.7	-18.0	-10.5	-1,472.1			
		Net Adjusted Demand Reduction (kW)	1,056.6	2,525.0	782.6	444.7	3,826.3	1,225.2	2,331.9	214.3	273.1	312.5	161.9	94.7	13,248.8			
		Planned Net Savings (kW)	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	268.5	3,222.4			
		Annual % Toward Planned Net Reduction	32.8%	111.1%	135.4%	149.2%	268.0%	306.0%	378.4%	385.0%	393.5%	403.2%	408.2%	411.2%	411.2%			
		Avg. Gross Demand Reduction per Participant (kW)	37.9	71.9	15.8	10.5	74.6	18.6	54.0	7.0	7.1	4.8	2.9	3.3	24.7			
		Avg. Net Demand Reduction per Participant (kW)	34.1	64.7	14.2	9.5	67.1	16.8	48.6	6.3	6.4	4.3	2.6	3.0	22.3			
Installed Winter peak kW	Total	Total Gross Demand Reduction (kW)	350.7	495.1	291.4	72.0	226.3	798.5	313.3	345.6	300.0	406.2	177.3	69.5	3,846.0			
		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)	350.7	495.1	291.4	72.0	226.3	798.5	313.3	345.6	300.0	406.2	177.3	69.5	3,846.0			
		Net-To-Gross Rate Weighted by Measure	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%			
		Net-To-Gross Adjustment (kW)	-35.1	-49.5	-29.1	-7.2	-22.6	-79.9	-31.3	-34.6	-30.0	-40.6	-17.7	-7.0	-384.6			
		Net Adjusted Demand Reduction (kW)	315.6	445.6	262.3	64.8	203.7	718.7	282.0	311.0	270.0	365.6	159.8	62.6	3,461.4			
		Planned Net Savings (kW)	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	196.8	2,361.2			
		Annual % Toward Planned Net Reduction	13.4%	32.2%	43.3%	46.1%	54.7%	85.2%	97.1%	110.3%	121.7%	137.2%	143.9%	146.6%	146.6%			
		Avg. Gross Demand Reduction per Participant (kW)	11.3	12.7	5.3	1.5	4.0	10.9	6.5	10.2	7.0	5.6	2.8	2.2	6.5			
		Avg. Net Demand Reduction per Participant (kW)	10.2	11.4	4.8	1.4	3.6	9.8	5.9	9.1	6.3	5.0	2.5	2.0	5.8			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$743	\$828	\$851	\$830	\$943	\$990	\$1,009	\$1,018	\$1,017	\$989	\$958	\$959	\$959			
		\$Admin. per kWh/year (Gross)	\$0.02	\$0.02	\$0.02	\$0.03	\$0.03	\$0.03	\$0.03	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04			
		\$Admin. per kW (Gross)	\$44	\$38	\$40	\$41	\$37	\$40	\$38	\$39	\$41	\$43	\$44	\$45	\$45			
		\$EM&V per \$Total	3.5%	3.1%	3.0%	3.0%	2.7%	2.5%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%	2.4%			
		\$Rebate per Participant (Gross)	\$12,787	\$13,544	\$13,445	\$12,852	\$13,895	\$14,501	\$14,600	\$14,584	\$14,447	\$13,913	\$13,385	\$13,164	\$13,164			

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J.35.3 2021-2023 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX) Measure Indicator Tables

VA - Non-Residential Prescriptive Enhanced Program			2021	2022	2023	2021-2023
Category	Measure	Indicator	Total	Total	Total	Total
Installed kWh/year	AC Tune ups	Total Participants	0	337	532	869
	AC Tune ups	Total Gross Energy Savings (kWh/yr)	0	4,326,422	5,845,712	10,172,134
	AC Tune ups	Realization Rate	N/A	100%	100%	100%
	AC Tune ups	Net-To-Gross Rate	N/A	90%	90%	90%
	AC Tune ups	Net Adjusted Savings (kWh/yr)	0	3,893,779	5,261,141	9,154,920
	AC Tune ups	Avg. Gross Savings per Participant (kWh/yr)	N/A	12,838	10,988	11,706
	AC Tune ups	Avg. Net Savings per Participant (kWh/yr)	N/A	11,554	9,889	10,535
Installed Summer peak kW	AC Tune ups	Total Gross Demand Reduction (kW)	0.0	4,814.7	13,239.5	18,054.2
	AC Tune ups	Realization Rate	N/A	100%	100%	100%
	AC Tune ups	Net-To-Gross Rate	N/A	90%	90%	90%
	AC Tune ups	Net Adjusted Demand Reduction (kW)	0.0	4,333.2	11,915.6	16,248.8
	AC Tune ups	Avg. Gross Demand Reduction per Participant (kW)	N/A	14.3	24.9	20.8
	AC Tune ups	Avg. Net Demand Reduction per Participant (kW)	N/A	12.9	22.4	18.7
	Installed Winter peak kW	AC Tune ups	Total Gross Demand Reduction (kW)	-	277.2	518.5
AC Tune ups		Realization Rate	-	100%	100%	100%
AC Tune ups		Net-To-Gross Rate	-	90%	90%	90%
AC Tune ups		Net Adjusted Demand Reduction (kW)	-	249.5	466.6	716.1
AC Tune ups		Avg. Gross Demand Reduction per Participant (kW)	-	0.8	1.0	0.9
AC Tune ups		Avg. Net Demand Reduction per Participant (kW)	-	0.7	0.9	0.8
Installed kWh/year		Auto Closers	Total Participants	0	1	0
	Auto Closers	Total Gross Energy Savings (kWh/yr)	0	85	0	85
	Auto Closers	Realization Rate	N/A	100%	N/A	100%
	Auto Closers	Net-To-Gross Rate	N/A	90%	N/A	90%
	Auto Closers	Net Adjusted Savings (kWh/yr)	0	76	0	76
	Auto Closers	Avg. Gross Savings per Participant (kWh/yr)	N/A	85	N/A	85
	Auto Closers	Avg. Net Savings per Participant (kWh/yr)	N/A	76	N/A	76
Installed Summer peak kW	Auto Closers	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Auto Closers	Realization Rate	N/A	100%	N/A	100%
	Auto Closers	Net-To-Gross Rate	N/A	90%	N/A	90%
	Auto Closers	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Auto Closers	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.01	N/A	0.01
	Auto Closers	Avg. Net Demand Reduction per Participant (kW)	N/A	0.01	N/A	0.01
	Installed Winter peak kW	Auto Closers	Total Gross Demand Reduction (kW)	-	0.0	0.0
Auto Closers		Realization Rate	-	100%	N/A	100%
Auto Closers		Net-To-Gross Rate	-	90%	N/A	90%
Auto Closers		Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
Auto Closers		Avg. Gross Demand Reduction per Participant (kW)	-	0.01	N/A	0.01
Auto Closers		Avg. Net Demand Reduction per Participant (kW)	-	0.01	N/A	0.01
Installed kWh/year		Commercial Dishwasher	Total Participants	0	0	0
	Commercial Dishwasher	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Commercial Dishwasher	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Commercial Dishwasher	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
Installed Summer peak kW	Commercial Dishwasher	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Commercial Dishwasher	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Commercial Dishwasher	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Commercial Dishwasher	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Commercial Dishwasher					
Installed Winter peak kW	Commercial Dishwasher	Total Gross Demand Reduction (kW)	-	-	-	0.0

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Category	Measure	Indicator	Total	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	0
Installed kWh/year	Commercial Freezer and Refrigerator Solid door	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Commercial Freezer and Refrigerator Solid door	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Commercial Freezer and Refrigerator Solid door	Avg. Gross Savings per Participant (kWh/yr)	N/A	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	N/A
Installed Summer peak kW	Commercial Freezer and Refrigerator Solid door	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Commercial Freezer and Refrigerator Solid door	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Freezer and Refrigerator Solid door	Net Adjusted Demand Reduction (kW)	0.0	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	N/A
	Commercial Freezer and Refrigerator Solid door	Avg. Net Demand Reduction per Participant (kW)	N/A	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	0
	Commercial Hot Food Holding Cabinet	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Commercial Hot Food Holding Cabinet	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Commercial Hot Food Holding Cabinet	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Avg. Net Savings per Participant (kWh/yr)	N/A	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	0.0
	Commercial Hot Food Holding Cabinet	Realization Rate	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Commercial Hot Food Holding Cabinet	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Commercial Hot Food Holding Cabinet	Avg. Net Demand Reduction per Participant (kW)	N/A	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	32	10	42
	Door Gasket for Freezers and Coolers	Total Gross Energy Savings (kWh/yr)	0	10,959	2,568	13,526
	Door Gasket for Freezers and Coolers	Realization Rate	N/A	100%	100%	100%
	Door Gasket for Freezers and Coolers	Net-To-Gross Rate	N/A	90%	90%	90%
	Door Gasket for Freezers and Coolers	Net Adjusted Savings (kWh/yr)	0	9,863	2,311	12,174
	Door Gasket for Freezers and Coolers	Avg. Gross Savings per Participant (kWh/yr)	N/A	342	257	322
	Door Gasket for Freezers and Coolers	Avg. Net Savings per Participant (kWh/yr)	N/A	308	231	290
Installed Summer peak kW	Door Gasket for Freezers and Coolers	Total Gross Demand Reduction (kW)	0.0	1.2	0.3	1.5
	Door Gasket for Freezers and Coolers	Realization Rate	N/A	100%	100%	100%



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Category	Measure	Indicator	Total	Total	Total	Total
	Door Gasket for Freezers and Coolers	Net-To-Gross Rate	N/A	90%	90%	90%
	Door Gasket for Freezers and Coolers	Net Adjusted Demand Reduction (kW)	0.0	1.1	0.3	1.4
	Door Gasket for Freezers and Coolers	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.04	0.03	0.04
	Door Gasket for Freezers and Coolers	Avg. Net Demand Reduction per Participant (kW)	N/A	0.04	0.03	0.03
Installed Winter peak kW	Door Gasket for Freezers and Coolers	Total Gross Demand Reduction (kW)	-	1.2	0.3	1.5
	Door Gasket for Freezers and Coolers	Realization Rate	-	100%	100%	100%
	Door Gasket for Freezers and Coolers	Net-To-Gross Rate	-	90%	90%	90%
	Door Gasket for Freezers and Coolers	Net Adjusted Demand Reduction (kW)	-	1.1	0.3	1.4
	Door Gasket for Freezers and Coolers	Avg. Gross Demand Reduction per Participant (kW)	-	0.04	0.03	0.04
	Door Gasket for Freezers and Coolers	Avg. Net Demand Reduction per Participant (kW)	-	0.04	0.03	0.03
	Duct Test and Seal	Total Participants	0	225	396	621
Installed kWh/year	Duct Test and Seal	Total Gross Energy Savings (kWh/yr)	0	574,778	1,625,297	2,200,076
	Duct Test and Seal	Realization Rate	N/A	100%	100%	100%
	Duct Test and Seal	Net-To-Gross Rate	N/A	90%	90%	90%
	Duct Test and Seal	Net Adjusted Savings (kWh/yr)	0	517,301	1,462,768	1,980,068
	Duct Test and Seal	Avg. Gross Savings per Participant (kWh/yr)	N/A	2,555	4,104	3,543
	Duct Test and Seal	Avg. Net Savings per Participant (kWh/yr)	N/A	2,299	3,694	3,189
Installed Summer peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	0.0	501.4	1,095.9	1,597.2
	Duct Test and Seal	Realization Rate	N/A	100%	100%	100%
	Duct Test and Seal	Net-To-Gross Rate	N/A	90%	90%	90%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	0.0	451.2	986.3	1,437.5
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	N/A	2.2	2.8	2.6
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	N/A	2.0	2.5	2.3
Installed Winter peak kW	Duct Test and Seal	Total Gross Demand Reduction (kW)	-	294.5	2,942.2	3,236.7
	Duct Test and Seal	Realization Rate	-	100%	100%	100%
	Duct Test and Seal	Net-To-Gross Rate	-	90%	90%	90%
	Duct Test and Seal	Net Adjusted Demand Reduction (kW)	-	265.0	2,648.0	2,913.0
	Duct Test and Seal	Avg. Gross Demand Reduction per Participant (kW)	-	1.3	7.4	5.2
	Duct Test and Seal	Avg. Net Demand Reduction per Participant (kW)	-	1.2	6.7	4.7
	Food Seal Wrapper	Total Participants	0	0	1	1
Installed kWh/year	Food Seal Wrapper	Total Gross Energy Savings (kWh/yr)	0	0	1,545	1,545
	Food Seal Wrapper	Realization Rate	N/A	N/A	100%	100%
	Food Seal Wrapper	Net-To-Gross Rate	N/A	N/A	90%	90%
	Food Seal Wrapper	Net Adjusted Savings (kWh/yr)	0	0	1,391	1,391
	Food Seal Wrapper	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	1,545	1,545
	Food Seal Wrapper	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	1,391	1,391
Installed Summer peak kW	Food Seal Wrapper	Total Gross Demand Reduction (kW)	0.0	0.0	0.2	0.2
	Food Seal Wrapper	Realization Rate	N/A	N/A	100%	100%
	Food Seal Wrapper	Net-To-Gross Rate	N/A	N/A	90%	90%
	Food Seal Wrapper	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.2	0.2
	Food Seal Wrapper	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2
	Food Seal Wrapper	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	0.2	0.2
Installed Winter peak kW	Food Seal Wrapper	Total Gross Demand Reduction (kW)	-	-	0.2	0.2
	Food Seal Wrapper	Realization Rate	-	-	100%	100%
	Food Seal Wrapper	Net-To-Gross Rate	-	-	90%	90%
	Food Seal Wrapper	Net Adjusted Demand Reduction (kW)	-	-	0.2	0.2
	Food Seal Wrapper	Avg. Gross Demand Reduction per Participant (kW)	-	-	0.2	0.2
	Food Seal Wrapper	Avg. Net Demand Reduction per Participant (kW)	-	-	0.2	0.2
	Guest Room Energy Management	Total Participants	0	3	19	22
Installed kWh/year	Guest Room Energy Management	Total Gross Energy Savings (kWh/yr)	0	214,084	1,525,668	1,739,752
	Guest Room Energy Management	Realization Rate	N/A	100%	100%	100%
	Guest Room Energy Management	Net-To-Gross Rate	N/A	90%	90%	90%



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Category	Measure	Indicator	Total	Total	Total	Total
	Guest Room Energy Management	Net Adjusted Savings (kWh/yr)	0	192,676	1,373,101	1,565,777
	Guest Room Energy Management	Avg. Gross Savings per Participant (kWh/yr)	N/A	71,361	80,298	79,080
	Guest Room Energy Management	Avg. Net Savings per Participant (kWh/yr)	N/A	64,225	72,268	71,172
Installed Summer peak kW	Guest Room Energy Management	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Guest Room Energy Management	Realization Rate	N/A	N/A	N/A	N/A
	Guest Room Energy Management	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Guest Room Energy Management	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Guest Room Energy Management	Avg. Gross Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
	Guest Room Energy Management	Avg. Net Demand Reduction per Participant (kW)	N/A	0.0	0.0	0.0
Installed Winter peak kW	Guest Room Energy Management	Total Gross Demand Reduction (kW)	-	0.0	0.0	0.0
	Guest Room Energy Management	Realization Rate	-	N/A	N/A	N/A
	Guest Room Energy Management	Net-To-Gross Rate	-	N/A	N/A	N/A
	Guest Room Energy Management	Net Adjusted Demand Reduction (kW)	-	0.0	0.0	0.0
	Guest Room Energy Management	Avg. Gross Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Guest Room Energy Management	Avg. Net Demand Reduction per Participant (kW)	-	0.0	0.0	-
	Low/No Sweat door Film	Total Participants	0	0	3	3
Installed kWh/year	Low/No Sweat door Film	Total Gross Energy Savings (kWh/yr)	0	0	202,461	202,461
	Low/No Sweat door Film	Realization Rate	N/A	N/A	100%	100%
	Low/No Sweat door Film	Net-To-Gross Rate	N/A	N/A	90%	90%
	Low/No Sweat door Film	Net Adjusted Savings (kWh/yr)	0	0	182,215	182,215
	Low/No Sweat door Film	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	67,487	67,487
	Low/No Sweat door Film	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	60,738	60,738
Installed Summer peak kW	Low/No Sweat door Film	Total Gross Demand Reduction (kW)	0.0	0.0	4.9	4.9
	Low/No Sweat door Film	Realization Rate	N/A	N/A	100%	100%
	Low/No Sweat door Film	Net-To-Gross Rate	N/A	N/A	90%	90%
	Low/No Sweat door Film	Net Adjusted Demand Reduction (kW)	0.0	0.0	4.4	4.4
	Low/No Sweat door Film	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	1.6	1.6
	Low/No Sweat door Film	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	1.5	1.5
Installed Winter peak kW	Low/No Sweat door Film	Total Gross Demand Reduction (kW)	-	-	4.6	4.6
	Low/No Sweat door Film	Realization Rate	-	-	100%	100%
	Low/No Sweat door Film	Net-To-Gross Rate	-	-	90%	90%
	Low/No Sweat door Film	Net Adjusted Demand Reduction (kW)	-	-	4.2	4.2
	Low/No Sweat door Film	Avg. Gross Demand Reduction per Participant (kW)	-	-	1.5	1.5
	Low/No Sweat door Film	Avg. Net Demand Reduction per Participant (kW)	-	-	1.4	1.4
	Pool Spa Cover	Total Participants	0	0	0	0
Installed kWh/year	Pool Spa Cover	Total Gross Energy Savings (kWh/yr)	0	0	0	0
	Pool Spa Cover	Realization Rate	N/A	N/A	N/A	N/A
	Pool Spa Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Pool Spa Cover	Net Adjusted Savings (kWh/yr)	0	0	0	0
	Pool Spa Cover	Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
	Pool Spa Cover	Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A	N/A
Installed Summer peak kW	Pool Spa Cover	Total Gross Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Pool Spa Cover	Realization Rate	N/A	N/A	N/A	N/A
	Pool Spa Cover	Net-To-Gross Rate	N/A	N/A	N/A	N/A
	Pool Spa Cover	Net Adjusted Demand Reduction (kW)	0.0	0.0	0.0	0.0
	Pool Spa Cover	Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
	Pool Spa Cover	Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A	N/A
Installed Winter peak kW	Pool Spa Cover	Total Gross Demand Reduction (kW)	-	-	-	0.0
	Pool Spa Cover	Realization Rate	-	-	-	N/A
	Pool Spa Cover	Net-To-Gross Rate	-	-	-	N/A
	Pool Spa Cover	Net Adjusted Demand Reduction (kW)	-	-	-	0.0
	Pool Spa Cover	Avg. Gross Demand Reduction per Participant (kW)	-	-	-	-



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Category	Measure	Indicator	Total	Total	Total	Total
	Pool Spa Cover	Avg. Net Demand Reduction per Participant (kW)	-	-	-	-
	Refrigeration Condenser Coil Cleaning	Total Participants	0	17	61	78
Installed kWh/year	Refrigeration Condenser Coil Cleaning	Total Gross Energy Savings (kWh/yr)	0	3,456,189	5,033,098	8,489,287
	Refrigeration Condenser Coil Cleaning	Realization Rate	N/A	100%	100%	100%
	Refrigeration Condenser Coil Cleaning	Net-To-Gross Rate	N/A	90%	90%	90%
	Refrigeration Condenser Coil Cleaning	Net Adjusted Savings (kWh/yr)	0	3,110,570	4,529,789	7,640,359
	Refrigeration Condenser Coil Cleaning	Avg. Gross Savings per Participant (kWh/yr)	N/A	203,305	82,510	108,837
	Refrigeration Condenser Coil Cleaning	Avg. Net Savings per Participant (kWh/yr)	N/A	182,975	74,259	97,953
Installed Summer peak kW	Refrigeration Condenser Coil Cleaning	Total Gross Demand Reduction (kW)	0.0	250.3	365.0	615.3
	Refrigeration Condenser Coil Cleaning	Realization Rate	N/A	100%	100%	100%
	Refrigeration Condenser Coil Cleaning	Net-To-Gross Rate	N/A	90%	90%	90%
	Refrigeration Condenser Coil Cleaning	Net Adjusted Demand Reduction (kW)	0.0	225.3	328.5	553.7
	Refrigeration Condenser Coil Cleaning	Avg. Gross Demand Reduction per Participant (kW)	N/A	14.7	6.0	7.9
	Refrigeration Condenser Coil Cleaning	Avg. Net Demand Reduction per Participant (kW)	N/A	13.3	5.4	7.1
Installed Winter peak kW	Refrigeration Condenser Coil Cleaning	Total Gross Demand Reduction (kW)	-	250.3	365.0	615.3
	Refrigeration Condenser Coil Cleaning	Realization Rate	-	100%	100%	100%
	Refrigeration Condenser Coil Cleaning	Net-To-Gross Rate	-	90%	90%	90%
	Refrigeration Condenser Coil Cleaning	Net Adjusted Demand Reduction (kW)	-	225.3	328.5	553.7
	Refrigeration Condenser Coil Cleaning	Avg. Gross Demand Reduction per Participant (kW)	-	14.7	6.0	7.9
	Refrigeration Condenser Coil Cleaning	Avg. Net Demand Reduction per Participant (kW)	-	13.3	5.4	7.1
	Strip Curtains in Freezers and Coolers	Total Participants	0	22	9	31
Installed kWh/year	Strip Curtains in Freezers and Coolers	Total Gross Energy Savings (kWh/yr)	0	265,643	114,097	379,740
	Strip Curtains in Freezers and Coolers	Realization Rate	N/A	100%	100%	100%
	Strip Curtains in Freezers and Coolers	Net-To-Gross Rate	N/A	90%	90%	90%
	Strip Curtains in Freezers and Coolers	Net Adjusted Savings (kWh/yr)	0	239,079	102,687	341,766
	Strip Curtains in Freezers and Coolers	Avg. Gross Savings per Participant (kWh/yr)	N/A	12,075	12,677	12,250
	Strip Curtains in Freezers and Coolers	Avg. Net Savings per Participant (kWh/yr)	N/A	10,867	11,410	11,025
Installed Summer peak kW	Strip Curtains in Freezers and Coolers	Total Gross Demand Reduction (kW)	0.0	30.3	15.2	45.5
	Strip Curtains in Freezers and Coolers	Realization Rate	N/A	100%	100%	100%
	Strip Curtains in Freezers and Coolers	Net-To-Gross Rate	N/A	90%	90%	90%
	Strip Curtains in Freezers and Coolers	Net Adjusted Demand Reduction (kW)	0.0	27.3	13.7	41.0
	Strip Curtains in Freezers and Coolers	Avg. Gross Demand Reduction per Participant (kW)	N/A	1.4	1.7	1.5
	Strip Curtains in Freezers and Coolers	Avg. Net Demand Reduction per Participant (kW)	N/A	1.2	1.5	1.3
Installed Winter peak kW	Strip Curtains in Freezers and Coolers	Total Gross Demand Reduction (kW)	-	30.3	15.2	45.5
	Strip Curtains in Freezers and Coolers	Realization Rate	-	100%	100%	100%
	Strip Curtains in Freezers and Coolers	Net-To-Gross Rate	-	90%	90%	90%
	Strip Curtains in Freezers and Coolers	Net Adjusted Demand Reduction (kW)	-	27.3	13.7	41.0
	Strip Curtains in Freezers and Coolers	Avg. Gross Demand Reduction per Participant (kW)	-	1.4	1.7	1.5
	Strip Curtains in Freezers and Coolers	Avg. Net Demand Reduction per Participant (kW)	-	1.2	1.5	1.3





J.35.4 2021-2023 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX)  
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
CNR2	108	Schedule 5C	6109.037762	26999.1	0.2262682	54288.73985	0.112528634
CNR2	109	Schedule 5P	5243.546026	26999.1	0.194211882	227958.3333	0.023002213
CNR2	110	Schedule GS-1	4888.608196	26999.1	0.181065598	25717.7424	0.190086988
CNR2	114	Schedule GS-2T	16947.98931	26999.1	0.627724232	541550.383	0.031295314
CNR2	117	Schedule GS-3	64548.5732	26999.1	2.390767588	7105430.618	0.0090844
CNR2	120	Schedule GS-4	10407.76279	26999.1	0.385485546	79519603.45	0.000130883
CNR2	126	Schedule 6TS	34517.19511	26999.1	1.278457249	6790185.185	0.005083395
CNR2	129	Schedule 7	803.223682	26999.1	0.029750017	31216.0804	0.025731087
CNR2	130	Schedule 10	34613.44567	26999.1	1.282022203	3584793.852	0.009655631
CNR2	169	Schedule 5C	6109.037762	26999.1	0.2262682	Not Available	Not Available
CNR2	170	Schedule 5P	5243.546026	26999.1	0.194211882	Not Available	Not Available
CNR2	182	Schedule 7	803.223682	26999.1	0.029750017	Not Available	Not Available
CNR2	183	Schedule 10	34613.44567	26999.1	1.282022203	Not Available	Not Available
CNR2	192	Schedule 24	7932.693555	26999.1	0.293813259	934.6952445	8.486930475
CNR2	193	Schedule 27	17004.1576	26999.1	0.629804608	2047.719024	8.303950591
CNR2	194	Schedule 28	2611.230839	26999.1	0.096715477	3066.246057	0.851605119
CNR2	227	Schedule GS-2	26279.57347	26999.1	0.973349981	329494.9816	0.079757128
CNR2	261	Schedule 10	34613.44567	26999.1	1.282022203	Not Available	Not Available
CNR2	262	Schedule 10	34613.44567	26999.1	1.282022203	Not Available	Not Available
CNR2	All Codes	All Rates	21726.06154	26999.1	0.804695769	Not Available	Not Available



J.35.5 2021-2023 Virginia Non-Residential Prescriptive Enhanced Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
	9 Non-Residential Prescriptive Enhanced	2024	VA	EM&V Report				
	9 Non-Residential Prescriptive Enhanced	2023	VA	PUR-2023-00217	4.88	2.21	2.21	0.62
	9 Non-Residential Prescriptive Enhanced	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
	9 Non-Residential Prescriptive Enhanced	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
	9 Non-Residential Prescriptive Enhanced	2020	VA	PUR-2020-00274	3.20	1.18	1.25	0.46
	11 Non-Residential Enhanced Prescriptive	2024	VA	PUR-2022-00210	4.46	1.63	1.51	0.46
	11 Non-Residential Enhanced Prescriptive	2023	VA	PUR-2022-00210	4.46	1.63	1.51	0.46

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**J.36 Virginia Non-Residential Data Center Program (Phase X) 2022-2023**

**J.36.1 2022-2023 Virginia Non-Residential Data Center Program (Phase X) Annual Indicator Tables**

VA - Non-Residential Data Server Room 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	\$13,725	\$367,790	\$381,515
Costs (\$)		Planned	\$0	\$607,456	\$607,456
Costs (\$)		Variance	\$13,725	-\$239,666	-\$225,941
		Annual % of Planned	N/A	61%	63%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	0	4	4
		Variance	0	-4	-4
		Annual % of Planned (Gross)	N/A	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	0	648,850	648,850
		Annual % Toward Planned Net Savings	N/A	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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	60.8	60.8
		Annual % Toward Planned Net Reduction	N/A	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	94.2%	13.7%	13.7%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.36.2 2023 Virginia Non-Residential Data Center Program (Phase X) Monthly Indicator Tables

VA - Non-Residential Data Server Room 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)	\$359	\$134	\$107	\$7,639	\$2,334	\$1,459	\$1,910	\$2,262	\$2,171	\$2,082	\$2,042	\$2,350	\$24,851			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$5,318	\$1,988	\$1,588	\$113,055	\$34,547	\$21,588	\$28,268	\$33,483	\$32,137	\$30,819	\$30,221	\$34,778	\$367,790			
Costs (\$)		Planned	\$40,497	\$40,497	\$40,497	\$40,497	\$40,497	\$40,497	\$80,746	\$80,746	\$80,746	\$80,746	\$80,746	\$80,746	\$807,456			
Costs (\$)		Variance	-\$35,179	-\$38,509	-\$38,909	\$72,558	-\$5,950	-\$18,909	-\$32,477	-\$27,263	-\$28,609	-\$29,927	-\$30,524	-\$25,967	-\$239,666			
		Annual % of Planned	0.9%	1.2%	1.5%	20.1%	25.8%	29.3%	34.0%	39.5%	44.8%	49.8%	54.8%	60.5%	61%			
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Planned	4	0	0	0	0	0	0	0	0	0	0	0	4			
		Variance	-4	0	0	0	0	0	0	0	0	0	0	0	-4			
		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			
		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)	648,850	0	0	0	0	0	0	0	0	0	0	0	648,850			
		Annual % Toward Planned Net Savings	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			
		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)	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8			
		Annual % Toward Planned Net Reduction	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			
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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)	102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	102.5			
		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			
		\$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			
		\$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	74.4%	72.6%	70.7%	12.9%	13.6%	13.5%	12.3%	12.8%	12.9%	12.8%	12.8%	13.7%	13.7%			
		\$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			

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**J.37 Virginia Non-Residential Healthcare Program (Phase X) 2022-2023**

**J.37.1 2022-2023 Virginia Non-Residential Healthcare Program (Phase X) Annual Indicator Tables**

VA - Healthcare Energy Solutions 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	\$3,009	\$418,936	\$421,945
Costs (\$)		Planned	\$0	\$4,453,045	\$4,453,045
Costs (\$)		Variance	\$3,009	-\$4,034,109	-\$4,031,100
		Annual % of Planned	N/A	9%	9%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	0	193	193
		Variance	0	-193	-193
		Annual % of Planned (Gross)	N/A	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	0	13,124,000	13,124,000
		Annual % Toward Planned Net Savings	N/A	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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	5,159.4	5,159.4
		Annual % Toward Planned Net Reduction	N/A	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	90.6%	16.1%	16.1%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.37.2 2023 Virginia Non-Residential Healthcare Program (Phase X) Monthly Indicator Tables

VA - Healthcare Energy Solutions 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)	\$338	\$282	\$240	\$587	\$662	\$301	\$403	\$15,532	\$2,573	\$2,611	\$2,234	\$2,543	\$28,306		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Costs (\$)	Total		\$5,008	\$4,171	\$3,559	\$8,888	\$9,800	\$4,458	\$5,962	\$229,873	\$38,075	\$38,645	\$33,084	\$37,634	\$418,936		
Costs (\$)	Planned		\$296,870	\$296,870	\$296,870	\$296,870	\$296,870	\$296,870	\$445,304	\$445,304	\$445,304	\$445,304	\$445,304	\$445,304	\$4,453,045		
Costs (\$)	Variance		-\$291,862	-\$292,699	-\$293,311	-\$288,163	-\$287,070	-\$292,410	-\$439,343	-\$215,432	-\$407,229	-\$406,660	-\$412,240	-\$407,670	-\$4,034,109		
	Annual % of Planned		0.1%	0.2%	0.3%	0.5%	0.7%	0.8%	0.9%	6.1%	7.0%	7.8%	8.6%	9.4%	9%		
Participants <sup>1</sup>	Total (Gross)		0	0	0	0	0	0	0	0	0	0	0	0	0		
	Planned		17	16	16	16	16	16	16	16	16	16	16	16	193		
	Variance		-17	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-16	-193		
	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		
		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)	1,158,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	1,088,000	13,124,000		
		Annual % Toward Planned Net Savings	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		
		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)	454.5	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	5,159.4		
		Annual % Toward Planned Net Reduction	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		
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-		
		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)	224.8	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	211.6	2,552.6		
		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		
		\$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		
		\$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	40.3%	51.2%	53.7%	64.1%	69.9%	68.9%	69.1%	14.8%	15.8%	15.4%	15.2%	16.1%	16.1%		
		\$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		

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**J.38 Virginia Non-Residential Hotel and Lodging Program (Phase X) 2022-2023**

**J.38.1 2022-2023 Virginia Non-Residential Hotel and Lodging Program (Phase X) Annual Indicator Tables**

VA - Hotel and Lodging Energy Solutions 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	\$3,516	\$402,987	\$406,503
Costs (\$)		Planned	\$0	\$4,065,988	\$4,065,988
Costs (\$)		Variance	\$3,516	-\$3,663,001	-\$3,659,485
		Annual % of Planned	N/A	10%	10%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	0	163	163
		Variance	0	-163	-163
		Annual % of Planned (Gross)	N/A	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	0	11,084,000	11,084,000
		Annual % Toward Planned Net Savings	N/A	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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	4,160.7	4,160.7
		Annual % Toward Planned Net Reduction	N/A	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	90.2%	12.0%	12.0%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.38.2 2023 Virginia Non-Residential Hotel and Lodging Program (Phase X) Monthly Indicator Tables

VA - Hotel and Lodging Energy Solutions 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)	\$362	\$150	\$241	\$133	\$598	\$185	\$295	\$15,777	\$2,408	\$2,391	\$2,261	\$2,427	\$27,229	
Capital (\$)		Direct implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$5,354	\$2,218	\$3,565	\$1,973	\$8,856	\$2,745	\$4,368	\$233,494	\$35,646	\$35,388	\$33,461	\$35,919	\$402,987	
Costs (\$)		Planned	\$271,066	\$271,066	\$271,066	\$271,066	\$271,066	\$271,066	\$406,599	\$406,599	\$406,599	\$406,599	\$406,599	\$406,599	\$4,065,988	
Costs (\$)		Variance	-\$265,712	-\$268,848	-\$267,501	-\$269,092	-\$262,209	-\$268,321	-\$402,231	-\$173,105	-\$370,953	-\$371,211	-\$373,138	-\$370,680	-\$3,663,001	
		Annual % of Planned	0.1%	0.2%	0.3%	0.3%	0.5%	0.6%	0.7%	6.5%	7.3%	8.2%	9.0%	9.9%	10%	
Participants*		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Planned	20	13	13	13	13	13	13	13	13	13	13	13	163	
		Variance	-20	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-13	-163	
		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	
		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)	1,360,000	884,000	884,000	884,000	884,000	884,000	884,000	884,000	884,000	884,000	884,000	884,000	11,084,000	
		Annual % Toward Planned Net Savings	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	
		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)	510.5	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	4,160.7	
		Annual % Toward Planned Net Reduction	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	
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-	
		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)	271.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	176.2	2,209.9	
		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	
		\$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	
		\$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	44.4%	46.0%	50.3%	49.9%	61.6%	59.9%	59.6%	9.4%	10.2%	11.0%	11.2%	12.0%	12.0%	
		\$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	

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**J.39 Virginia Non-Residential Small Business Behavioral Program (Phase X) 2022-2023**

**J.39.1 2022-2023 Virginia Non-Residential Small Business Behavioral Program (Phase X) Annual Indicator Tables**

VA - Non-Residential Small Business Behavioral 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	\$2,244	\$1,089,031	\$1,091,275
Costs (\$)		Planned	\$0	\$1,313,072	\$1,313,072
Costs (\$)		Variance	\$2,244	-\$224,040	-\$221,797
		Annual % of Planned	N/A	83%	83%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	45,000	41,400	86,400
		Variance	-45,000	-41,400	-86,400
		Annual % of Planned (Gross)	0%	0%	0%
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	17,190,000	15,814,800	33,004,800
		Annual % Toward Planned Net Savings	0%	0%	0%
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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)	9,450.0	8,694.0	18,144.0
		Annual % Toward Planned Net Reduction	0%	0%	0%
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	59.3%	1.1%	1.1%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.39.2 2023 Virginia Non-Residential Small Business Behavioral Program (Phase X) Monthly Indicator Tables

VA - Non-Residential Small Business Behavioral 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)	\$429	\$203	\$303	\$276	\$31,674	\$4,223	\$6,213	\$6,156	\$6,040	\$6,020	\$5,993	\$6,052	\$73,583			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$6,348	\$3,008	\$4,466	\$4,082	\$468,781	\$62,505	\$91,956	\$91,107	\$89,394	\$89,101	\$88,693	\$89,572	\$1,089,031			
Costs (\$)		Planned	\$87,538	\$87,538	\$87,538	\$87,538	\$87,538	\$87,538	\$131,307	\$131,307	\$131,307	\$131,307	\$131,307	\$131,307	\$1,313,072			
Costs (\$)		Variance	-\$81,190	-\$84,530	-\$83,052	-\$83,456	\$381,242	-\$25,034	-\$39,352	-\$40,200	-\$41,914	-\$42,206	-\$42,615	-\$41,735	-\$224,040			
		Annual % of Planned	0.5%	0.7%	1.1%	1.4%	37.1%	41.8%	48.8%	55.8%	62.6%	69.4%	76.1%	82.9%	83%			
Participants <sup>1</sup>		Total (Gross)	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Planned	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	3,450	41,400			
		Variance	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-3,450	-41,400			
		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			
		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)	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	1,317,900	15,814,800			
		Annual % Toward Planned Net Savings	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			
		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)	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	724.5	8,694.0			
		Annual % Toward Planned Net Reduction	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			
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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)	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	138.0	1,656.0			
		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			
		\$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			
		\$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	25.3%	20.5%	17.5%	16.1%	0.8%	1.2%	1.3%	1.3%	1.3%	1.2%	1.2%	1.1%	1.1%			
		\$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			

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**J.40 Virginia Voltage Optimization Program (Phase X) 2022-2023**

**J.40.1 2022-2023 Virginia Voltage Optimization Program (Phase X) Annual Indicator Tables**

VA - Voltage Optimization 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	\$3,906,515	\$3,906,515
Costs (\$)		Total	\$32,625	\$4,405,299	\$4,437,924
Costs (\$)		Planned	\$2,432,712	\$3,560,852	\$5,993,563
Costs (\$)		Variance	-\$2,400,086	\$844,447	-\$1,555,639
		Annual % of Planned	1%	124%	74%
Participants <sup>1</sup>		Total (Gross)	0	0	0
		Planned	0	0	
		Variance	0	0	0
		Annual % of Planned (Gross)	N/A	N/A	N/A
Installed kWh/year	Total	Total Gross Energy Savings (kWh/yr)	0	0	0
		Realization Rate Weighted by Measure	N/A	N/A	N/A
		Realization Rate Adjustment (kWh/yr)	0	0	0
		Realization Rate Adjusted Savings (kWh/yr)	0	0	0
		Net-To-Gross Rate Weighted by Measure	N/A	N/A	N/A
		Net-To-Gross Adjustment (kWh/yr)	0	0	0
		Net Adjusted Savings (kWh/yr)	0	0	0
		Planned Net Savings (kWh/yr)	0	0	0
		Annual % Toward Planned Net Savings	N/A	N/A	N/A
		Avg. Gross Savings per Participant (kWh/yr)	N/A	N/A	N/A
		Avg. Net Savings per Participant (kWh/yr)	N/A	N/A	N/A
Installed Summer 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
		Annual % Toward Planned Net Reduction	N/A	N/A	N/A
		Avg. Gross Demand Reduction per Participant (kW)	N/A	N/A	N/A
		Avg. Net Demand Reduction per Participant (kW)	N/A	N/A	N/A
Measures					
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	N/A
		\$Admin. per kWh/year (Gross)	N/A	N/A	N/A
		\$Admin. per kW (Gross)	N/A	N/A	N/A
		\$EM&V per \$Total	95.4%	17.0%	17.0%
		\$Rebate per Participant (Gross)	N/A	N/A	N/A

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J.40.2 2023 Virginia Voltage Optimization Program (Phase X)  
Monthly Indicator Tables

VA - Voltage Optimization 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)	\$651	\$452	\$7,352	\$2,663	\$2,644	\$2,613	\$2,999	\$3,710	\$3,002	\$2,446	\$2,470	\$2,500	\$33,701	
Capital (\$)		Direct Implementation	\$3,867,450	\$0	\$39,065	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)	Total		\$3,880,049	\$6,689	\$147,872	\$39,406	\$39,138	\$38,673	\$44,385	\$54,913	\$44,423	\$36,203	\$36,551	\$36,996	\$4,405,299	
Costs (\$)	Planned		\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$296,738	\$3,560,852	
Costs (\$)	Variance		\$3,583,312	-\$290,049	-\$148,866	-\$257,331	-\$257,600	-\$258,064	-\$252,353	-\$241,824	-\$252,314	-\$260,534	-\$260,187	-\$259,742	\$844,447	
	Annual % of Planned		109.0%	109.2%	113.3%	114.4%	115.5%	116.6%	117.8%	119.4%	120.6%	121.6%	122.7%	123.7%	124%	
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)	-	-	-	-	-	-	-	-	-	-	-	-	-	
		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)	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
		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	
		\$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	
		\$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	0.9%	1.0%	1.1%	1.1%	1.2%	1.2%	1.4%	1.8%	2.0%	2.0%	2.0%	2.0%	2.0%	
		\$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	

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J.41 Virginia Residential Smart Cooling Rewards Program (Phase I) 2010–2023

J.41.1 2010–2023 Virginia Residential Smart Cooling Rewards Program (Phase I) Annual Indicator Tables

VA - Residential Smart Cooling Rewards Program			2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2010-2023
Category	Measure	Indicator	Total	Total	Total	Total	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	\$1,438,489	\$4,533,310	\$4,926,336	\$2,315,954	\$2,989,751	\$1,971,786	\$555,622	\$101,100	\$130,800	\$160,575	\$47,700	\$25,725	\$4,200	\$0	\$19,201,348
Costs (\$)		Total	\$3,700,433	\$9,446,533	\$11,124,610	\$9,178,194	\$9,576,619	\$9,577,752	\$6,700,360	\$6,159,956	\$6,034,693	\$5,781,716	\$5,287,678	\$4,898,125	\$4,513,936	\$2,477,115	\$94,457,721
Costs (\$)		Planned	\$4,817,708	\$9,883,136	\$17,373,951	\$12,543,660	\$11,497,670	\$11,449,561	\$9,764,999	\$9,506,708	\$8,648,373	\$8,463,554	\$8,070,360	\$5,734,278	\$5,278,587	\$1,987,126	\$125,019,672
Costs (\$)		Variance	-\$1,117,275	-\$436,603	-\$6,249,341	-\$3,365,466	-\$1,921,050	-\$1,871,809	-\$3,064,639	-\$3,346,752	-\$2,613,680	-\$2,681,838	-\$2,782,682	-\$836,152	-\$764,651	\$489,989	-\$30,551,951
		Annual % of Planned	77%	96%	64%	73%	83%	84%	69%	65%	70%	68%	66%	85%	86%	125%	78%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	10,900	36,545	66,890	91,280	115,083	140,022	147,723	149,219	151,798	154,787	155,586	156,210	160,172	0	0
		Removals (Uninstalled) / Deactivations	90	2,806	5,516	12,370	23,145	36,769	49,635	59,937	71,171	79,401	87,123	95,733	105,604	0	0
		Opt-outs	98	309	18	16	18	93	353	30	27	26	23	6	5	0	0
		Adjusted Participants (Cum.)	10,712	33,630	61,356	78,894	91,920	103,160	98,088	89,282	80,627	75,386	68,463	60,477	54,568	0	0
		In Service Rate Adjustment (Cum.)	428	1,345	2,454	3,156	3,677	0	0	0	0	0	0	0	0	0	0
		Net Participation (Cum.)	10,283	32,285	58,901	75,738	88,243	103,160	98,088	89,282	80,627	75,386	68,463	60,477	54,568	0	0
		Planned (Cum.)	9,244.0	33,996.0	73,598.0	96,706.0	115,702.0	103,915.0	103,253.0	97,037.0	90,267.0	80,765.0	80,765.0	66,976.0	57,105.0	0.0	0.0
		Variance (Cum.)	1,039.2	-1,711.1	-14,696.6	-20,967.6	-27,459.2	-754.9	-5,165.0	-7,755.0	-9,640.0	-5,379.0	-12,302.0	-6,499.0	-2,537.0	0.0	0.0
		Cum % Toward Planned Total (Net Basis)	111.2%	95.0%	80.0%	78.3%	76.3%	99.3%	95.0%	92.0%	89.3%	93.3%	84.8%	90.3%	95.6%	N/A	N/A
		Average % Opt-outs (Rate)	0.91%	0.91%	0.03%	0.02%	0.02%	0.09%	0.36%	0.03%	0.03%	0.03%	0.03%	0.01%	0.01%	0.00%	0.00%
		Connected Load kW	17,840.77	92,797.52	203,883.50	264,998.30	296,858.59	304,177.17	291,198.57	267,856.53	247,443.50	234,735.76	221,076.58	199,449.74	179,418.23	0.00	0
		Ex-Ante Estimated kW	0.94	0.96	1.09	0.95	0.78	0.71	0.97	0.68	0.63	0.63	0.63	0.53	0.49	0.00	0.00
		Connected Load Per Participant (kW)	1.73	2.87	3.46	3.50	3.36	2.99	2.97	3.00	3.07	3.11	3.23	3.30	3.29	0.00	N/A
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	11,990	40,200	73,579	100,408	80,558	99,416	143,291	101,469	95,236	96,895	98,623	83,321	79,137	0	0
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	99	2,867	6,068	13,607	16,202	26,106	46,146	40,757	44,652	49,704	55,226	51,063	52,176	0	0
		Less Opt-outs (kW)	108	340	20	17	13	66	343	21	17	16	15	3	3	0	0
		Dispatchable Summer Peak Shaving Potential - Total kW	11,783	36,993	67,491	86,784	64,344	73,244	94,803	60,691	50,567	47,175	43,383	32,255	26,958	0	0
		In Service Rate Adjustment (Cum.)	471	1,480	2,700	3,471	2,574	0	0	0	0	0	0	0	0	0	0
		Net Summer Demand (Cum.)	10,880	39,420	64,403	65,117	57,137	73,244	94,803	60,691	50,567	47,175	43,383	32,255	26,958	0	0
		Planned Summer Demand (Cum.)	0	10,741	35,417	71,618	93,325	89,549	73,838	95,027	61,419	50,817	50,817	35,721	30,437	0	0
		Cum. % Toward Planned Total (Net Basis)	123.89%	122.07%	92.29%	70.95%	51.76%	69.30%	128.39%	63.87%	82.33%	92.83%	85.37%	90.30%	88.57%	N/A	N/A
		Dispatchable Summer Peak Shaving Potential kW per Participant	1.06	1.23	1.09	0.86	0.65	0.71	0.97	0.68	0.63	0.63	0.63	0.53	0.49	0.00	0.00
Measures																	
No measures available																	
Cumulative		\$Admin. per Participant (Gross)	\$80	\$45	\$35	\$33	\$29	\$25	\$25	\$26	\$28	\$29	\$31	\$32	\$32	N/A	N/A
Annual		\$Admin. per kW (Gross)	\$73	\$41	\$32	\$30	\$41	\$35	\$26	\$39	\$45	\$46	\$48	\$60	\$65	N/A	N/A
Program		\$EM&V per \$Total	1.0%	1.5%	1.3%	1.3%	1.2%	1.2%	1.5%	1.7%	1.8%	1.9%	1.9%	2.1%	2.2%	2.2%	2.2%
Performance		\$Rebate per Participant (Gross)	\$16	\$37	\$52	\$70	\$86	\$99	\$118	\$141	\$159	\$176	\$193	\$206	\$213	N/A	N/A



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J.41.2 2023 Virginia Residential Smart Cooling Rewards Program (Phase I) Monthly Indicator Tables

VA - Residential Smart Cooling Rewards 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)	\$15,559	\$13,654	\$15,532	\$13,313	\$13,472	\$15,536	\$14,469	\$13,061	\$14,268	\$12,723	\$12,090	\$13,694	\$167,372	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$230,276	\$202,086	\$229,878	\$197,036	\$199,393	\$229,936	\$214,148	\$193,302	\$211,166	\$188,303	\$178,926	\$202,665	\$2,477,115	
Costs (\$)		Planned	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$165,594	\$1,987,126	
Costs (\$)		Variance	\$64,682	\$36,492	\$64,284	\$31,442	\$33,800	\$64,342	\$48,555	\$27,709	\$45,572	\$22,709	\$13,332	\$37,071	\$489,989	
		Annual % of Planned	11.6%	21.8%	33.3%	43.2%	53.3%	64.8%	75.6%	85.4%	96.0%	105.5%	114.5%	124.7%	125%	
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	
		In Service Rate Adjustment (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%	
		Connected Load kW													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	
		Connected Load 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	
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	
		Less Opt-outs (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	
		In Service Rate Adjustment (Cum.)	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	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.3%	2.3%	2.3%	2.2%	2.2%	2.2%		
		\$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	



J.41.3 2010–2023 Virginia Residential Smart Cooling Rewards Program (Phase I) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
1	Residential Smart Cooling Rewards	2007	VA	PUE-2007-00089	N/A	N/A	N/A	N/A
1	Residential Smart Cooling Rewards	2009	VA	PUE-2009-00081	++	1.15	2.17	1.15
1	Residential Smart Cooling Rewards	2011	VA	PUE-2011-00093	N/A	N/A	N/A	N/A
1	Residential Smart Cooling Rewards	2012	VA	PUE-2012-00100	N/A	1.20	1.98	1.20
1	Residential Smart Cooling Rewards	2013	VA	PUE-2013-00072	N/A	N/A	N/A	N/A
1	Residential Smart Cooling Rewards	2014	VA	PUE-2014-00071	++	0.71	1.06	0.71
1	Residential Smart Cooling Rewards	2015	VA	PUE-2015-00089	++	1.05	1.63	1.05
1	Residential Smart Cooling Rewards	2016	VA	PUE-2016-00111	++	0.62	0.90	0.62
1	Residential Smart Cooling Rewards	2018	VA	PUR-2018-00168	++	0.96	1.47	0.96
1	Residential Smart Cooling Rewards	2019	VA	PUR-2019-00201	++	0.61	0.91	0.61
1	Residential Smart Cooling Rewards	2020	VA	PUR-2020-00274	++	0.01	0.03	0.01
1	Residential Smart Cooling Rewards	2021	VA	PUR-2021-00247	++	0.42	1.00	0.42
1	Residential Smart Cooling Rewards	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
1	Residential Smart Cooling Rewards	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A

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J.42 Virginia Non-Residential Distributed Generation Program (Phase II) 2012–2023

J.42.1 2012–2023 Virginia Non-Residential Distributed Generation Program (Phase II) Annual Indicator Tables

VA - Non-Residential Distributed Generation Program			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2012-2023
Category	Measure	Indicator	Total	Total	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	\$0	\$0
Costs (\$)		Total	\$474,517	\$704,695	\$1,107,382	\$538,023	\$572,348	\$561,690	\$557,961	\$589,631	\$570,747	\$608,132	\$620,104	\$475,594	\$7,380,822
Costs (\$)		Planned	\$2,261,356	\$2,464,188	\$2,011,074	\$947,030	\$851,134	\$730,107	\$874,549	\$909,830	\$1,014,629	\$1,015,757	\$1,152,161	\$1,167,407	\$15,399,223
Costs (\$)		Variance	-\$1,786,840	-\$1,759,493	-\$903,692	-\$409,007	-\$278,787	-\$168,417	-\$316,588	-\$320,199	-\$443,882	-\$407,626	-\$532,057	-\$691,813	-\$8,018,401
		Annual % of Planned	21%	29%	55%	57%	67%	77%	64%	65%	56%	60%	54%	41%	48%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	19.04	19.41	18.58	6.10	6.50	6.10	6.13	6.13	6.13	5.97	5.88	5.75	5.75
		Planned (Cum.)	23.0	28.0	35.0	13.0	7.0	7.4	8.1	7.6	9.0	7.1	7.1	0.0	0.0
		Variance (Cum.)	-4.0	-8.6	-16.4	-6.9	-0.5	-1.3	-2.0	-1.5	-2.9	-1.2	-1.2	5.8	5.8
		Cum % Toward Planned Total (Net Basis)	82.8%	69.3%	53.1%	46.9%	92.9%	82.5%	75.2%	80.7%	67.9%	83.7%	82.5%	N/A	N/A
Summer kW Potential		Total (Cumulative @ End of Month)	19,040	19,410	18,580	6,100	6,500	6,100	6,130	6,130	6,130	5,970	5,880	5,750	5,750
		Realization Rate Weighted by Measure	84.3%	83.0%	76.0%	93.0%	75.8%	86.0%	97.0%	113.0%	106.0%	111.0%	104.0%	116.0%	116.0%
		Adjustment for Realization Rate	-2,989	-3,300	-4,459	-411	-1,392	-858	-184	797	368	657	235	938	938
		Net Summer Demand (Cum.)	16,051	16,110	14,121	5,689	5,108	5,242	5,946	6,927	6,498	6,627	6,115	6,688	6,688
		Planned Summer Demand (Cum.)	23,000	28,000	35,000	13,000	7,000	7,394	8,149	7,592	9,025	7,130	7,130	0	0
		Cum. % Toward Planned Total (Net Basis)	69.79%	57.54%	40.35%	43.76%	72.97%	70.89%	72.97%	91.24%	72.00%	92.95%	85.77%	N/A	N/A
		Dispatchable Summer Peak Shaving Potential kW per Participant	843.00	830.00	760.00	932.58	785.85	859.31	970.00	1,130.00	1,060.00	1,110.00	1,039.97	1,163.13	944.48
Winter kW Potential		Total (Cumulative @ End of Month)	19,040	19,410	18,580	6,100	6,500	6,100	6,130	6,130	6,130	5,970	5,880	5,750	5,710
		Realization Rate Weighted by Measure	84.3%	83.0%	76.0%	93.0%	75.8%	86.0%	97.0%	113.0%	106.0%	111.0%	104.0%	116.0%	N/A
		Adjustment for Realization Rate									656.7	235.0	938.0	938.0	
		Net Winter Demand (Cum.)	19,040.00	19,410.00	18,580.00	6,100.00	6,500.00	6,100.00	6,130.00	6,130.00	6,130.00	6,626.70	6,115.00	6,688.00	4,772.00
		Planned Winter Demand (Cum.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,129.7	7,129.7	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	92.95%	85.77%	N/A	N/A
		Dispatchable Winter Peak Shaving Potential kW per Participant	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,110.00	1,039.97	1,163.13	829.91
Measures															
No measures available															
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$2,374	\$5,973	\$9,207	\$30,490	\$31,290	\$36,698	\$41,658	\$45,954	\$50,908	\$57,049	\$62,325	\$69,323	\$69,323
		\$Admin. per kW (Gross)	\$2	\$6	\$9	\$30	\$31	\$37	\$42	\$46	\$51	\$57	\$62	\$69	\$69
		\$EM&V per \$ Total	3.3%	7.5%	8.8%	9.5%	11.6%	12.5%	13.3%	13.4%	13.2%	13.4%	13.3%	13.5%	13.5%
		\$Rebate per Participant (Gross)	\$21,366	\$47,494	\$99,549	\$376,393	\$418,435	\$513,179	\$577,089	\$651,772	\$728,973	\$828,578	\$927,835	\$1,011,339	\$1,011,339





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J.42.2 2023 Virginia Non-Residential Distributed Generation Program (Phase II) Monthly Indicator Tables

VA - Non-Residential Distributed Generation Program			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)	\$2,412	\$2,806	\$1,998	\$522	\$1,843	\$2,788	\$6,505	\$4,135	\$2,064	\$2,046	\$2,961	\$2,054	\$32,135
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$35,699	\$41,526	\$29,569	\$7,731	\$27,280	\$41,262	\$96,275	\$61,196	\$30,548	\$30,283	\$43,829	\$30,397	\$475,594
Costs (\$)		Planned	\$151,763	\$58,370	\$11,674	\$58,370	\$175,111	\$128,415	\$116,741	\$81,718	\$140,089	\$58,370	\$81,718	\$105,067	\$1,167,407
Costs (\$)		Variance	-\$116,064	-\$16,844	\$17,894	-\$50,639	-\$147,831	-\$87,153	-\$20,466	-\$20,523	-\$109,540	-\$28,088	-\$37,889	-\$74,670	-\$691,813
		Annual % of Planned	3.1%	6.6%	9.1%	9.8%	12.1%	15.7%	23.9%	29.2%	31.8%	34.4%	38.1%	40.7%	41%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.75
		Planned (Cum.)	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	0.0
		Variance (Cum.)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	5.8
		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
Summer kW Potential		Total (Cumulative @ End of Month)	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750
		Realization Rate Weighted by Measure	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%	116.0%
		Adjustment for Realization Rate	938	938	938	938	938	938	938	938	938	938	938	938	938
		Net Summer Demand (Cum.)	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688	6,688
		Planned Summer Demand (Cum.)	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	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	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13
Winter kW Potential		Total (Cumulative @ End of Month)	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750	5,750
		Realization Rate Weighted by Measure	116%	116%	116%	116%	116%	116%	116%	116%	116%	116%	116%	116%	116.0%
		Adjustment for Realization Rate	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0	938.0
		Net Winter Demand (Cum.)	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00	6,688.00
		Planned Winter Demand (Cum.)	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	5,880.0	0.0
		Cum. % Toward Planned Total (Net Basis)	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	113.74%	N/A
		Dispatchable Winter Peak Shaving Potential kW per Participant	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13	1,163.13
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$64,154	\$64,642	\$64,989	\$65,080	\$65,401	\$65,886	\$67,017	\$67,736	\$68,095	\$68,451	\$68,966	\$69,323	\$69,323
		\$Admin. per kW (Gross)	\$64	\$65	\$65	\$65	\$65	\$66	\$67	\$68	\$68	\$68	\$69	\$69	\$69
		\$EM&V per \$Total	13.4%	13.4%	13.4%	13.4%	13.6%	13.8%	13.6%	13.6%	13.6%	13.6%	13.5%	13.5%	13.5%
		\$Rebate per Participant (Gross)	\$952,523	\$958,534	\$962,119	\$963,278	\$964,437	\$968,022	\$983,336	\$992,047	\$996,550	\$1,000,935	\$1,007,199	\$1,011,339	\$1,011,339



J.42.3 2012–2023 Virginia Non-Residential Distributed Generation Program (Phase II) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
2	Non-Residential Distributed Generation	2007	VA	PUE-2007-00089	N/A	N/A	N/A	N/A
2	Non-Residential Distributed Generation	2009	VA	PUE-2009-00081	4.92	0.81	2.31	0.80
2	Non-Residential Distributed Generation	2011	VA	PUE-2011-00093	2.25	1.72	3.26	1.71
2	Non-Residential Distributed Generation	2012	VA	PUE-2012-00100	N/A	N/A	N/A	N/A
2	Non-Residential Distributed Generation	2013	VA	PUE-2013-00072	2.10	2.23	2.93	2.22
2	Non-Residential Distributed Generation	2014	VA	PUE-2014-00071	2.10	1.14	1.40	1.14
2	Non-Residential Distributed Generation	2015	VA	PUE-2015-00089	2.43	2.58	4.14	2.57
2	Non-Residential Distributed Generation	2016	VA	PUE-2016-00111	6.65	1.08	2.22	1.08
2	Non-Residential Distributed Generation	2018	VA	PUR-2018-00168	6.35	1.65	3.42	1.55
2	Non-Residential Distributed Generation	2019	VA	PUR-2019-00201	5.36	1.48	3.28	1.35
2	Non-Residential Distributed Generation	2020	VA	PUR-2020-00274	4.88	1.53	3.35	1.47
2	Non-Residential Distributed Generation	2021	VA	PUR-2021-00247	7.48	2.05	9.61	1.90
2	Non-Residential Distributed Generation	2022	VA	PUR-2022-00210	1.97	1.77	2.61	1.65
2	Non-Residential Distributed Generation	2023	VA	PUR-2023-00217	++	0.86	2.56	0.82
2	Non-Residential Distributed Generation	2024	VA	EM&V Report	++	0.45	1.27	0.42



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**J.43 Virginia Residential Electric Vehicle Rewards Program (Phase VIII) 2020–2023**

**J.43.1 2020-2023 Virginia Residential Electric Vehicle Rewards Program (Phase VIII) Annual Indicator Tables**

VA - Residential Electric Vehicle Rewards 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	\$14,036	\$182,492	\$178,959	\$70,466	\$445,954
Costs (\$)		Planned	\$0	\$299,301	\$315,959	\$346,150	\$961,411
Costs (\$)		Variance	\$14,036	-\$116,809	-\$137,000	-\$275,684	-\$515,457
		Annual % of Planned	N/A	61%	57%	20%	46%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	0	0	686	1,495	1,495
		Removals (Uninstalled) / Deactivations	0	0	1	4	4
		Opt-outs	0	0	0	0	0
		Adjusted Participants (Cum.)	0	0	685	1,491	1,491
		Net Participation (Cum.)	0	0	685	1,491	1,491
		Planned (Cum.)	0.0	652.0	831.0	1,271.0	1,271.0
		Variance (Cum.)	0.0	-652.0	-146.0	220.0	220.0
		Cum % Toward Planned Total (Net Basis)	N/A	0.0%	82.4%	117.3%	117.3%
		Average % Opt-outs (Rate)	0.00%	0.00%	0.00%	0.00%	0.00%
		Number of Devices	0	0	689	1,503	1,503
		Number of Removed Devices	0	0	1	4	4
		Ex-Ante Estimated kW	0.00	0.00	0.00	0.20	0.20
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Devices	0	0	0	301	301
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	0	0	1	1
		Dispatchable Summer Peak Shaving Potential - Total kW	0	0	0	300	300
		Net Summer Demand (Cum.)	0	0	0	300	300
		Planned Summer Demand (Cum.)	0	652	831	1,271	1,271
		Cum. % Toward Planned Total (Net Basis)	N/A	0.00%	0.00%	23.59%	23.59%
		Dispatchable Summer Peak Shaving Potential kW per Device	0.00	0.00	0.00	0.20	0.20
Measures							
No measures available							
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	\$24	\$14	\$14
		\$Admin. per kW (Gross)	N/A	N/A	N/A	\$71	\$71
		\$EM&V per \$Total	45.0%	15.8%	12.8%	17.6%	17.6%
		\$Rebate per Participant (Gross)	N/A	N/A	\$0	\$17	\$17

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J.43.2 2023 Virginia Residential Electric Vehicle Rewards Program (Phase VIII) Monthly Indicator Tables

VA - Residential Electric Vehicle Rewards 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)	\$250	\$658	\$1,753	\$577	-\$811	\$210	\$214	\$440	\$369	\$433	\$376	\$293	\$4,761	
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Costs (\$)		Total	\$3,696	\$9,742	\$25,939	\$8,535	-\$12,010	\$3,110	\$3,174	\$6,511	\$5,454	\$6,408	\$5,570	\$4,336	\$70,466	
Costs (\$)		Planned	\$23,077	\$23,077	\$23,077	\$23,077	\$23,077	\$23,077	\$34,615	\$34,615	\$34,615	\$34,615	\$34,615	\$34,615	\$346,150	
Costs (\$)		Variance	-\$19,380	-\$13,335	\$2,862	-\$14,541	-\$35,087	-\$19,967	-\$31,441	-\$28,104	-\$29,161	-\$28,207	-\$29,045	-\$30,279	-\$275,684	
		Annual % of Planned	1.1%	3.9%	11.4%	13.8%	10.4%	11.3%	12.2%	14.1%	15.6%	17.5%	19.1%	20.4%	20%	
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	728	793	802	907	950	1,019	1,066	1,150	1,235	1,306	1,310	1,495	1,495	
		Removals (Uninstalled) / Deactivations	1	4	4	4	4	4	4	4	4	4	4	4	4	
		Opt-outs	0	0	0	0	0	0	0	0	0	0	0	0	0	
		Adjusted Participants (Cum.)	727	789	798	903	946	1,015	1,062	1,146	1,231	1,302	1,306	1,491	1,491	
		Net Participation (Cum.)	727	789	798	903	946	1,015	1,062	1,146	1,231	1,302	1,306	1,491	1,491	
		Planned (Cum.)	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	
		Variance (Cum.)	-544.0	-482.0	-473.0	-368.0	-325.0	-256.0	-209.0	-125.0	-40.0	31.0	35.0	220.0	220.0	
		Cum % Toward Planned Total (Net Basis)	57.2%	62.1%	62.8%	71.0%	74.4%	79.9%	83.6%	90.2%	96.9%	102.4%	102.8%	117.3%	117.3%	
		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%	
		Number of Devices	730	796	805	913	956	1,025	1,072	1,153	1,240	1,311	1,315	1,503	1,503	
		Number of Removed Devices	1	4	4	4	4	4	4	4	4	4	4	4	4	
		Ex-Ante Estimated kW	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Devices	146	159	161	183	191	205	214	231	248	262	263	301	301	
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	1	1	1	1	1	1	1	1	1	1	1	1	
		Dispatchable Summer Peak Shaving Potential - Total kW	146	158	160	182	190	204	214	230	247	261	262	300	300	
		Net Summer Demand (Cum.)	146	158	160	182	190	204	214	230	247	261	262	300	300	
		Planned Summer Demand (Cum.)	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	1,271.0	
		Cum. % Toward Planned Total (Net Basis)	11.47%	12.46%	12.60%	14.30%	14.98%	16.07%	16.81%	18.08%	19.45%	20.57%	20.63%	23.59%	23.59%	
		Dispatchable Summer Peak Shaving Potential kW per Device	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$23	\$22	\$24	\$22	\$20	\$19	\$18	\$17	\$16	\$16	\$16	\$14	\$14	
		\$Admin. per kW (Gross)	\$116	\$110	\$120	\$109	\$100	\$94	\$91	\$86	\$82	\$79	\$80	\$71	\$71	
		\$EM&V per \$Total	13.4%	15.2%	15.6%	16.3%	17.2%	17.3%	17.3%	17.4%	17.5%	17.6%	17.6%	17.6%	17.6%	
		\$Rebate per Participant (Gross)	\$0	\$0	\$3	\$6	\$8	\$9	\$10	\$13	\$14	\$15	\$17	\$17	\$17	



J.43.3 2020-2023 Virginia Residential Electric Vehicle Rewards Program (Phase VIII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Residential Electric Vehicle Rewards	2019	VA	PUR-2019-00201	136.42	1.31	2.22	1.31
8	Residential Electric Vehicle Rewards	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Residential Electric Vehicle Rewards	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Residential Electric Vehicle Rewards	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
8	Residential Electric Vehicle Rewards	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
8	Residential Electric Vehicle Rewards	2024	VA	EM&V Report	22.61	0.23	0.33	0.22



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**J.44 Virginia Residential Thermostat Rewards Program (Phase VIII) 2020–2023**

**J.44.1 2020–2023 Virginia Residential Thermostat Rewards Program (Phase VIII) Annual Indicator Tables**

VA - Residential Smart Thermostat Rewards 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	\$96,743	\$724,644	\$1,143,292	\$2,160,129	\$4,124,809
Costs (\$)		Planned	\$0	\$1,892,494	\$1,914,911	\$2,209,274	\$6,016,679
Costs (\$)		Variance	\$96,743	-\$1,167,850	-\$771,619	-\$49,145	-\$1,891,870
		Annual % of Planned	N/A	38%	60%	98%	69%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	0	6,329	13,084	39,817	39,817
		Removals (Uninstalled) / Deactivations	0	982	2,474	6,503	6,503
		Opt-outs	0	0	0	0	0
		Adjusted Participants (Cum.)	0	5,347	10,610	33,314	33,314
		Net Participation (Cum.)	0	5,347	10,610	33,314	33,314
		Planned (Cum.)	0.0	6,400.0	19,433.0	28,046.0	28,046.0
		Variance (Cum.)	0.0	-1,053.0	-8,823.0	5,268.0	5,268.0
		Cum % Toward Planned Total (Net Basis)	N/A	83.5%	54.6%	118.8%	118.8%
		Average % Opt-outs (Rate)	0.00%	0.00%	0.00%	0.00%	0.00%
		Ex-Ante Estimated kW	0.00	1.07	0.94	1.16	1.16
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	0	6,740	12,299	46,009	46,009
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	1,046	2,326	7,514	7,514
		Dispatchable Summer Peak Shaving Potential - Total kW	0	5,695	9,973	38,494	38,494
		Net Summer Demand (Cum.)	0	5,695	9,973	38,494	38,494
		Planned Summer Demand (Cum.)	0	10,176	30,898	44,593	44,593
		Cum. % Toward Planned Total (Net Basis)	N/A	55.96%	32.28%	86.32%	86.32%
		Dispatchable Summer Peak Shaving Potential kW per Participant	0.00	1.07	0.94	1.16	1.16
Measures							
No measures available							
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	\$6	\$7	\$6	\$6
		\$Admin. per kW (Gross)	N/A	\$6	\$7	\$5	\$5
		\$EM&V per \$Total	26.7%	13.2%	16.4%	11.4%	11.4%
		\$Rebate per Participant (Gross)	N/A	\$21	\$25	\$23	\$23

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J.44.2 2023 Virginia Residential Thermostat Rewards Program (Phase VIII) Monthly Indicator Tables

VA - Residential Smart Thermostat Rewards 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)	\$2,950	\$3,077	\$1,590	\$5,678	\$4,048	\$3,773	\$2,601	\$2,369	\$2,456	\$2,566	\$2,763	\$112,082	\$145,954			
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
Costs (\$)		Total	\$43,661	\$45,534	\$23,539	\$84,032	\$59,916	\$55,844	\$38,495	\$35,060	\$36,353	\$37,979	\$40,898	\$1,658,817	\$2,160,129			
Costs (\$)		Planned	\$147,285	\$147,285	\$147,285	\$147,285	\$147,285	\$147,285	\$220,927	\$220,927	\$220,927	\$220,927	\$220,927	\$220,927	\$220,927	\$2,209,274		
Costs (\$)		Variance	-\$103,624	-\$101,750	-\$123,746	-\$63,253	-\$87,369	-\$91,440	-\$182,432	-\$185,868	-\$184,574	-\$182,948	-\$180,029	\$1,437,890	-\$49,145			
		Annual % of Planned	2.0%	4.0%	5.1%	8.9%	11.6%	14.1%	15.9%	17.5%	19.1%	20.8%	22.7%	97.8%	98%			
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	13,638	14,105	14,677	15,190	15,854	19,083	21,487	29,901	32,086	35,126	36,384	39,817	39,817			
		Removals (Uninstalled) / Deactivations	2,506	2,529	2,544	2,621	2,708	3,224	4,320	4,826	5,872	6,108	6,335	6,503	6,503			
		Opt-outs	0	0	0	0	0	0	0	0	0	0	0	0	0			
		Adjusted Participants (Cum.)	11,132	11,576	12,133	12,569	13,146	15,859	17,167	25,075	26,214	29,018	30,049	33,314	33,314			
		Net Participation (Cum.)	11,132	11,576	12,133	12,569	13,146	15,859	17,167	25,075	26,214	29,018	30,049	33,314	33,314			
		Planned (Cum.)	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0	28,046.0		
		Variance (Cum.)	-16,914.0	-16,470.0	-15,913.0	-15,477.0	-14,900.0	-12,187.0	-10,879.0	-2,971.0	-1,832.0	972.0	2,003.0	5,268.0	5,268.0			
		Cum % Toward Planned Total (Net Basis)	39.7%	41.3%	43.3%	44.8%	46.9%	56.5%	61.2%	89.4%	93.5%	103.5%	107.1%	118.8%	118.8%			
		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	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16			
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	15,759	16,298	16,959	17,552	18,319	22,050	24,828	34,551	37,075	40,588	42,042	46,009	46,009			
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	2,896	2,922	2,940	3,029	3,129	3,725	4,992	5,576	6,785	7,058	7,320	7,514	7,514			
		Dispatchable Summer Peak Shaving Potential - Total kW	12,863	13,376	14,020	14,523	15,190	18,325	19,836	28,974	30,290	33,530	34,722	38,494	38,494			
		Net Summer Demand (Cum.)	12,863	13,376	14,020	14,523	15,190	18,325	19,836	28,974	30,290	33,530	34,722	38,494	38,494			
		Planned Summer Demand (Cum.)	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1	44,593.1		
		Cum. % Toward Planned Total (Net Basis)	28.85%	30.00%	31.44%	32.57%	34.06%	41.09%	44.48%	64.97%	67.93%	75.19%	77.86%	86.32%	86.32%			
		Dispatchable Summer Peak Shaving Potential kW per Participant	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16			
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	\$7	\$7	\$6	\$7	\$7	\$6	\$5	\$4	\$4	\$3	\$3	\$6	\$6			
		\$Admin. per kW (Gross)	\$6	\$6	\$6	\$6	\$6	\$5	\$4	\$3	\$3	\$3	\$3	\$5	\$5			
		\$EM&V per \$Total	16.7%	17.0%	17.8%	18.2%	19.0%	19.3%	19.3%	19.1%	19.0%	19.0%	18.8%	11.4%	11.4%			
		\$Rebate per Participant (Gross)	\$24	\$23	\$22	\$22	\$21	\$17	\$15	\$11	\$10	\$9	\$9	\$23	\$23			



J.44.3 2020–2023 Virginia Residential Thermostat Rewards Program (Phase VIII) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
8	Residential Smart Thermostat Rewards	2019	VA	PUR-2019-00201	6.67	4.50	5.95	4.50
8	Residential Smart Thermostat Rewards	2020	VA	PUR-2020-00274	N/A	N/A	N/A	N/A
8	Residential Smart Thermostat Rewards	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
8	Residential Smart Thermostat Rewards	2022	VA	PUR-2022-00210	10.38	1.40	1.80	1.34
8	Residential Smart Thermostat Rewards	2023	VA	PUR-2023-00217	9.37	0.47	0.59	0.46
8	Residential Smart Thermostat Rewards	2024	VA	EM&V Report	9.37	0.57	0.72	0.56





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**J.45 Virginia Residential Water Savings Demand Response Program (Phase IX) 2021-2023**

**J.45.1 2021-2023 Virginia Residential Water Savings Demand Response Program (Phase IX) Annual Indicator Tables**

VA - Residential Water Savings Demand Response 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	\$9,167	\$149,786	\$93,391	\$252,344
Costs (\$)		Planned	\$0	\$343,042	\$325,979	\$669,022
Costs (\$)		Variance	\$9,167	-\$193,256	-\$232,588	-\$416,677
		Annual % of Planned	N/A	44%	29%	38%
Participants <sup>1</sup>		Total (Cumulative @ End of Month)	0	0	8	8
		Removals (Uninstalled) / Deactivations	0	0	0	0
		Opt-outs	0	0	0	0
		Adjusted Participants (Cum.)	0	0	8	8
		Net Participation (Cum.)	0	0	8	8
		Planned (Cum.)	0.0	625.0	1,875.0	1,875.0
		Variance (Cum.)	0.0	-625.0	-1,867.0	-1,867.0
		Cum % Toward Planned Total (Net Basis)	N/A	0.0%	0.4%	0.4%
		Average % Opt-outs (Rate)	0.00%	0.00%	0.00%	0.00%
		Ex-Ante Estimated kW	0.00	0.00	0.00	0.00
Summer kW Potential		Summer Peak Shaving Potential kW - Gross Participants	0	0	0	0
		Removed (Uninstalled) / Deactivated Summer Peak Shaving Potential kW	0	0	0	0
		Dispatchable Summer Peak Shaving Potential - Total kW	0	0	0	0
		Net Summer Demand (Cum.)	0	0	0	0
		Planned Summer Demand (Cum.)	0	325	976	976
		Cum. % Toward Planned Total (Net Basis)	N/A	0.00%	0.00%	0.00%
		Dispatchable Summer Peak Shaving Potential kW per Participant	0.00	0.00	0.00	0.00
Measures						
No measures available						
Cumulative Annual Program Performance		\$Admin. per Participant (Gross)	N/A	N/A	\$1,624	\$1,624
		\$Admin. per kW (Gross)	N/A	N/A	N/A	N/A
		\$EM&V per \$Total	41.6%	8.3%	5.3%	5.3%
		\$Rebate per Participant (Gross)	N/A	N/A	\$0	\$0

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J.45.2 2021-2023 Virginia Residential Water Savings Demand Response Program (Phase IX) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
9	Residential Water Savings Demand Response	2020	VA	PUR-2020-00274	4.99	1.79	1.60	0.33
9	Residential Water Savings Demand Response	2021	VA	PUR-2021-00247	N/A	N/A	N/A	N/A
9	Residential Water Savings Demand Response	2022	VA	PUR-2022-00210	N/A	N/A	N/A	N/A
9	Residential Water Savings Demand Response	2023	VA	PUR-2023-00217	N/A	N/A	N/A	N/A
9	Residential Water Savings Demand Response	2024	VA	EM&V Report				



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**J.46 Virginia Non-Residential Income and Age Qualifying Bundle Program (Phase XI) 2023**

**J.46.1 2023 Virginia Non-Residential Income and Age Qualifying Bundle Program (Phase XI) Monthly Indicator Tables**

VA - Non-Residential Income and Age Qualifying Bundle Program			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	\$102	\$59	\$56	\$56	\$273
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	\$1,507	\$870	\$830	\$830	\$4,038
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	\$1,507	\$870	\$830	\$830	\$4,038
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-
		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)	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	-	-	-	-	-	-	-	-	-	-	-	-	-
		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
		\$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
		\$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

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J.46.2 2023 Virginia Non-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	Non-Residential Income and Age Qualifying Bundle	2024	VA	PUR-2022-00210	∞	0.08	0.08	0.08
11	Non-Residential Income and Age Qualifying Bundle	2024	VA	PUR-2022-00210	∞	0.08	0.08	0.08



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J.47 Virginia Non- Residential Custom Program (Phase XI) 2023

J.47.1 2023 Virginia Non-Residential Custom Program (Phase XI) Monthly Indicator Tables

VA - Non-Residential Custom Program			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			
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	\$190	\$151	\$176	\$188		\$705	
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	\$2,811	\$2,241	\$2,600	\$2,789		\$10,441	
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	\$2,811	\$2,241	\$2,600	\$2,789		\$10,441	
		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)	-	-	-	-	-	-	-	-	-	-	-	-		-	
		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)	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	-	-	-	-	-	-	-	-	-	-	-	-		-	
		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	
		\$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	
		\$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	

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J.47.2 2023 Virginia Non-Residential Custom Program (Phase XI) Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
11	Non-Residential Custom	2023	VA	PUR-2022-00210	7.27	2.63	2.44	0.54
11	Non-Residential Custom	2024	VA	PUR-2022-00210	7.27	2.63	2.44	0.54

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**J.48 Virginia Residential Customer Engagement Program Extension (Phase XI) 2023**

**J.48.1 2023 Virginia Residential Customer Engagement Program Extension (Phase XI) Monthly Indicator Tables**

VA - Residential Customer Engagement Program (Extension) 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)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$97	\$150	\$129	\$136	\$511		
Capital (\$)		Direct Implementation	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,429	\$2,221	\$1,905	\$2,015	\$7,570		
Costs (\$)		Planned	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Costs (\$)		Variance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,429	\$2,221	\$1,905	\$2,015	\$7,570		
		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	N/A
Participants <sup>1</sup>		Total (Gross)	0	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	0
		Variance	0	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	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	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)	0	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	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	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)	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
		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	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	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)	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
		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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A

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J.48.2 2023 Virginia Residential Customer Engagement Program Extension (Phase XI)  
Benefit Cost Scores

Phase	Program Name	Filing Year	State	Filing Case No	PCT	UTC	TRC	RIM
11	Residential Customer Engagement Program (Extension)	2023	VA	PUR-2022-00210	11.28	2.26	1.72	0.50
11	Residential Customer Engagement Program (Extension)	2024	VA	PUR-2022-00210	11.28	2.26	1.72	0.50





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**J.49 Virginia Residential Income and Age Qualifying Bundle Program (Phase XI) 2023**

**J.49.1 2023 Virginia Residential Income and Age Qualifying Bundle Program (Phase XI) Monthly Indicator Tables**

VA - Residential Income and Age Qualifying Bundle Program			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	\$113	\$70	\$56	\$56	\$296
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	\$1,677	\$1,040	\$830	\$830	\$4,378
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	\$1,677	\$1,040	\$830	\$830	\$4,378
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-
		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)	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	-	-	-	-	-	-	-	-	-	-	-	-	-
		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
		\$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
		\$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

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