

# Evaluation, Measurement, and Verification Report for Virginia Electric and Power Company (Dominion Energy)

Case No. PUR-2018-00168 (Virginia)  
Docket No. E-22 Sub 577 (North Carolina)  
**VOLUME 2 OF 4**  
**PUBLIC VERSION**

Date: May 15, 2020  
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## **Appendix C. Program to Date Gross Energy Savings Tables for Virginia and North Carolina Programs 2010-2019**

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

**PROGRAM: Residential Income and Age Qualifying Home Improvement Program**  
**DSM Phase IV Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 14.0 years (2015-2017); 15.0 years (after 2018)**

Table 1		Participation												
Month	Year	VA					NC					System		
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		
January	2015	0		0		0				0		0		0
February	2015	0		0		0				0		0		0
March	2015	0		0		0				0		0		0
April	2015	0		0		0				0		0		0
May	2015	0		0		0				0		0		0
June	2015	0		0		0				0		0		0
July	2015	0		0		0				0		0		0
August	2015	0		0		0				0		0		0
September	2015	0		0		0				0		0		0
October	2015	44		44		44				44		44		44
November	2015	712		756		756				756		756		756
December	2015	767		1,523		1,523				1,523		1,523		1,523
January	2016	114		1,637		1,637	0			1,637		1,637		1,637
February	2016	224		1,861		1,861	0			1,861		1,861		1,861
March	2016	295		2,156		2,156	0			2,156		2,156		2,156
April	2016	544		2,700		2,700	0			2,700		2,700		2,700
May	2016	319		3,019		3,019	0			3,019		3,019		3,019
June	2016	623		3,642		3,642	0			3,642		3,642		3,642
July	2016	638		4,280		4,280	20		20	4,300		4,300		4,300
August	2016	1,891		6,171		6,171	12		32	6,203		6,203		6,203
September	2016	769		6,940		6,940	9		41	6,981		6,981		6,981
October	2016	904		7,844		7,844	25		66	7,910		7,910		7,910
November	2016	1,566		9,410		9,410	37		103	9,513		9,513		9,513
December	2016	516		9,926		9,926	54		157	10,083		10,083		10,083
January	2017	428		10,354		10,354	42		199	10,553		10,553		10,553
February	2017	202		10,556		10,556	16		215	10,771		10,771		10,771
March	2017	737		11,293		11,293	12		227	11,520		11,520		11,520
April	2017	507		11,800		11,800	13		240	12,040		12,040		12,040
May	2017	617		12,417		12,417	6		246	12,663		12,663		12,663
June	2017	585		13,002		13,002	4		250	13,252		13,252		13,252
July	2017	443		13,445		13,445	2		252	13,697		13,697		13,697
August	2017	252		13,697		13,697	4		256	13,953		13,953		13,953
September	2017	101		13,798		13,798	2		258	14,056		14,056		14,056
October	2017	513		14,311		14,311	0		258	14,569		14,569		14,569
November	2017	822		15,133		15,133	7		265	15,398		15,398		15,398
December	2017	763		15,896		15,896	22		287	16,183		16,183		16,183
January	2018	2		15,898		15,898	1		288	16,186		16,186		16,186
February	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
March	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
April	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
May	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
June	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
July	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
August	2018	0		15,898		15,898	0		288	16,186		16,186		16,186
September	2018	75		15,973		15,973	0		288	16,261		16,261		16,261
October	2018	100		16,073		16,073	0		288	16,361		16,361		16,361
November	2018	387		16,460		16,460	0		288	16,748		16,748		16,748
December	2018	577		17,037		17,037	0		288	17,325		17,325		17,325
January	2019	76		17,113		17,113	0		288	17,401		17,401		17,401
February	2019	16		17,129		17,129	0		288	17,417		17,417		17,417
March	2019	16		17,145		17,145	0		288	17,433		17,433		17,433
April	2019	615		17,760		17,760	6		294	18,054		18,054		18,054
May	2019	219		17,979		17,979	0		294	18,273		18,273		18,273
June	2019	734		18,713		18,713	25		319	19,032		19,032		19,032
July	2019	293		19,006		19,006	77		396	19,402		19,402		19,402
August	2019	435		19,441		19,441	4		400	19,841		19,841		19,841
September	2019	564		20,005		20,005	20		420	20,425		20,425		20,425
October	2019	869		20,874		20,874	0		420	21,294		21,294		21,294
November	2019	1,036		21,910		21,910	0		420	22,330		22,330		22,330
December	2019	1,024		22,934		22,934	0		420	23,354		23,354		23,354

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Energy Savings												
Month	Year	Gross kWh												
		VA					NC					System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		
January	2015	0		0		0								
February	2015	0		0		0								
March	2015	0		0		0				0		0		0
April	2015	0		0		0				0		0		0
May	2015	0		0		0				0		0		0
June	2015	0		0		0				0		0		0
July	2015	0		0		0				0		0		0
August	2015	0		0		0				0		0		0
September	2015	0		0		0				0		0		0
October	2015	2,281		2,281		2,281				0		0		2,281
November	2015	53,883		56,164		56,164				0		0		56,164
December	2015	25,855		82,019		82,019				0		0		82,019
January	2016	4,539		86,558		86,558	0			0		0		86,558
February	2016	6,899		93,457		93,457	0			0		0		93,457
March	2016	14,316		107,773		107,773	0			0		0		107,773
April	2016	19,114		126,888		126,888	0			0		0		126,888
May	2016	9,925		136,812		136,812	0			0		0		136,812
June	2016	22,148		158,960		158,960	0			0		0		158,960
July	2016	24,233		183,193		183,193	973		973	973		973		184,166
August	2016	63,722		246,915		246,915	622		1,596	1,596		1,596		248,511
September	2016	30,733		277,648		277,648	544		2,140	2,140		2,140		279,788
October	2016	27,675		305,323		305,323	1,248		3,388	3,388		3,388		308,711
November	2016	56,461		361,784		361,784	2,965		6,353	6,353		6,353		368,136
December	2016	18,193		379,977		379,977	2,512		8,865	8,865		8,865		388,842
January	2017	18,352		398,329		398,329	3,422		12,287	12,287		12,287		410,616
February	2017	4,908		403,237		403,237	871		13,157	13,157		13,157		416,395
March	2017	38,804		442,041		442,041	918		14,076	14,076		14,076		456,117
April	2017	18,499		460,540		460,540	594		14,669	14,669		14,669		475,209
May	2017	25,937		486,477		486,477	360		15,029	15,029		15,029		501,506
June	2017	18,400		504,877		504,877	225		15,253	15,253		15,253		520,131
July	2017	11,618		516,495		516,495	152		15,405	15,405		15,405		531,900
August	2017	10,035		526,531		526,531	456		15,861	15,861		15,861		542,392
September	2017	2,840		529,371		529,371	443		16,304	16,304		16,304		545,675
October	2017	15,534		544,904		544,904	0		16,304	16,304		16,304		561,209
November	2017	20,094		564,999		564,999	364		16,668	16,668		16,668		581,667
December	2017	17,623		582,622		582,622	1,347		18,014	18,014		18,014		600,636
January	2018	73		582,694		582,694	60		18,075	18,075		18,075		600,769
February	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
March	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
April	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
May	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
June	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
July	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
August	2018	0		582,694		582,694	0		18,075	18,075		18,075		600,769
September	2018	2,148		584,842		584,842	0		18,075	18,075		18,075		602,917
October	2018	4,578		589,421		589,421	0		18,075	18,075		18,075		607,495
November	2018	18,486		607,906		607,906	0		18,075	18,075		18,075		625,981
December	2018	12,030		619,936		619,936	0		18,075	18,075		18,075		638,011
January	2019	1,944		621,880		621,880	0		18,075	18,075		18,075		639,955
February	2019	295		622,175		622,175	0		18,075	18,075		18,075		640,250
March	2019	412		622,587		622,587	0		18,075	18,075		18,075		640,662
April	2019	10,256		632,843		632,843	218		18,292	18,292		18,292		651,136
May	2019	4,897		637,741		637,741	0		18,292	18,292		18,292		656,033
June	2019	14,943		652,683		652,683	575		18,867	18,867		18,867		671,550
July	2019	5,429		658,112		658,112	3,598		22,465	3,598		22,465		680,576
August	2019	10,674		668,786		668,786	134		22,599	3,732		22,599		691,385
September	2019	10,706		679,492		679,492	882		23,481	4,614		23,481		702,973
October	2019	20,268		699,760		699,760	0		23,481	4,614		23,481		723,241
November	2019	19,568		719,327		719,327	0		23,481	4,614		23,481		742,809
December	2019	21,759		741,087		741,087	0		23,481	4,614		23,481		764,568

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2015	0		0		0							-	-	-	-	-	-
February	2015	0		0		0							-	-	-	-	-	-
March	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
April	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
May	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
June	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
July	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
August	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
September	2015	0		0		0		0		0	0	0	-	-	-	-	-	-
October	2015	3		3		3		0		0	3	3	52	-	52	0.06	-	0.06
November	2015	45		48		48		0		0	48	48	74	-	74	0.06	-	0.06
December	2015	32		80		80		0		0	80	80	54	-	54	0.05	-	0.05
January	2016	5		85		85	0			0	85	85	53	-	53	0.05	-	0.05
February	2016	12		97		97	0			0	97	97	50	-	50	0.05	-	0.05
March	2016	18		115		115	0			0	115	115	50	-	50	0.05	-	0.05
April	2016	25		140		140	0			0	140	140	47	-	47	0.05	-	0.05
May	2016	13		153		153	0			0	153	153	45	-	45	0.05	-	0.05
June	2016	28		181		181	0			0	181	181	44	-	44	0.05	-	0.05
July	2016	30		212		212	1		1	1	213	213	43	49	43	0.05	0.07	0.05
August	2016	87		298		298	1		2	2	301	301	40	50	40	0.05	0.07	0.05
September	2016	35		333		333	1		3	3	336	336	40	52	40	0.05	0.07	0.05
October	2016	38		372		372	2		4	4	376	376	39	51	39	0.05	0.07	0.05
November	2016	84		456		456	3		8	8	463	463	38	62	39	0.05	0.07	0.05
December	2016	22		478		478	3		11	11	489	489	38	56	39	0.05	0.07	0.05
January	2017	19		497		497	3		14	14	511	511	38	62	39	0.05	0.07	0.05
February	2017	7		505		505	1		15	15	519	519	38	61	39	0.05	0.07	0.05
March	2017	37		541		541	1		16	16	557	557	39	62	40	0.05	0.07	0.05
April	2017	21		562		562	1		17	17	579	579	39	61	39	0.05	0.07	0.05
May	2017	29		591		591	0		17	17	608	608	39	61	40	0.05	0.07	0.05
June	2017	22		613		613	0		17	17	630	630	39	61	39	0.05	0.07	0.05
July	2017	15		628		628	0		17	17	645	645	38	61	39	0.05	0.07	0.05
August	2017	9		637		637	0		18	18	655	655	38	62	39	0.05	0.07	0.05
September	2017	4		640		640	0		18	18	658	658	38	63	39	0.05	0.07	0.05
October	2017	17		657		657	0		18	18	675	675	38	63	39	0.05	0.07	0.05
November	2017	27		684		684	0		18	18	702	702	37	63	38	0.05	0.07	0.05
December	2017	23		706		706	1		20	20	726	726	37	63	37	0.04	0.07	0.04
January	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
February	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
March	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
April	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
May	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
June	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
July	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
August	2018	0		706		706	0		20	20	726	726	37	63	37	0.04	0.07	0.04
September	2018	2		709		709	0		20	20	728	728	37	63	37	0.04	0.07	0.04
October	2018	3		712		712	0		20	20	732	732	37	63	37	0.04	0.07	0.04
November	2018	18		730		730	0		20	20	750	750	37	63	37	0.04	0.07	0.04
December	2018	11		741		741	0		20	20	761	761	36	63	37	0.04	0.07	0.04
January	2019	3		744		744	0		20	20	764	764	36	63	37	0.04	0.07	0.04
February	2019	0		745		745	0		20	20	764	764	36	63	37	0.04	0.07	0.04
March	2019	1		745		745	0		20	20	765	765	36	63	37	0.04	0.07	0.04
April	2019	26		771		771	1		21	21	792	792	36	62	36	0.04	0.07	0.04
May	2019	9		781		781	0		21	21	801	801	35	62	36	0.04	0.07	0.04
June	2019	21		802		802	2		23	23	824	824	35	59	35	0.04	0.07	0.04
July	2019	8		810		810	13		35	13	845	845	35	57	35	0.04	0.09	0.04
August	2019	26		835		835	0		36	13	871	871	34	56	35	0.04	0.09	0.04
September	2019	18		853		853	3		39	16	892	892	34	56	34	0.04	0.09	0.04
October	2019	35		888		888	0		39	16	927	927	34	56	34	0.04	0.09	0.04
November	2019	33		921		921	0		39	16	960	960	33	56	33	0.04	0.09	0.04
December	2019	49		970		970	0		39	16	1,009	1,009	32	56	33	0.04	0.09	0.04

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Participation Program Participants											
Month	Year	VA				NC					System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2020			22,934		22,934				420		101	23,354
February	2020			22,934		22,934				420		101	23,354
March	2020			22,934		22,934				420		101	23,354
April	2020			22,934		22,934				420		101	23,354
May	2020			22,934		22,934				420		101	23,354
June	2020			22,934		22,934				420		101	23,354
July	2020			22,934		22,934				420		101	23,354
August	2020			22,934		22,934				420		101	23,354
September	2020			22,934		22,934				420		101	23,354
October	2020			22,934		22,934				420		101	23,354
November	2020			22,934		22,934				420		101	23,354
December	2020			22,934		22,934				420		101	23,354
January	2021			22,934		22,934				420		101	23,354
February	2021			22,934		22,934				420		101	23,354
March	2021			22,934		22,934				420		101	23,354
April	2021			22,934		22,934				420		101	23,354
May	2021			22,934		22,934				420		101	23,354
June	2021			22,934		22,934				420		101	23,354
July	2021			22,934		22,934				420		101	23,354
August	2021			22,934		22,934				420		101	23,354
September	2021			22,934		22,934				420		101	23,354
October	2021			22,934		22,934				420		101	23,354
November	2021			22,934		22,934				420		101	23,354
December	2021			22,934		22,934				420		101	23,354
January	2022			22,934		22,934				420		101	23,354
February	2022			22,934		22,934				420		101	23,354
March	2022			22,934		22,934				420		101	23,354
April	2022			22,934		22,934				420		101	23,354
May	2022			22,934		22,934				420		101	23,354
June	2022			22,934		22,934				420		101	23,354
July	2022			22,934		22,934				420		101	23,354
August	2022			22,934		22,934				420		101	23,354
September	2022			22,934		22,934				420		101	23,354
October	2022			22,934		22,934				420		101	23,354
November	2022			22,934		22,934				420		101	23,354
December	2022			22,934		22,934				420		101	23,354
January	2023			22,934		22,934				420		101	23,354
February	2023			22,934		22,934				420		101	23,354
March	2023			22,934		22,934				420		101	23,354
April	2023			22,934		22,934				420		101	23,354
May	2023			22,934		22,934				420		101	23,354
June	2023			22,934		22,934				420		101	23,354
July	2023			22,934		22,934				420		101	23,354
August	2023			22,934		22,934				420		101	23,354
September	2023			22,934		22,934				420		101	23,354
October	2023			22,934		22,934				420		101	23,354
November	2023			22,934		22,934				420		101	23,354
December	2023			22,934		22,934				420		101	23,354
January	2024			22,934		22,934				420		101	23,354
February	2024			22,934		22,934				420		101	23,354
March	2024			22,934		22,934				420		101	23,354
April	2024			22,934		22,934				420		101	23,354
May	2024			22,934		22,934				420		101	23,354
June	2024			22,934		22,934				420		101	23,354
July	2024			22,934		22,934				420		101	23,354
August	2024			22,934		22,934				420		101	23,354
September	2024			22,934		22,934				420		101	23,354
October	2024			22,934		22,934				420		101	23,354
November	2024			22,934		22,934				420		101	23,354
December	2024			22,934		22,934				420		101	23,354

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2020			741,087		741,087			23,481		4,614	764,568
February	2020			741,087		741,087			23,481		4,614	764,568
March	2020			741,087		741,087			23,481		4,614	764,568
April	2020			741,087		741,087			23,481		4,614	764,568
May	2020			741,087		741,087			23,481		4,614	764,568
June	2020			741,087		741,087			23,481		4,614	764,568
July	2020			741,087		741,087			23,481		4,614	764,568
August	2020			741,087		741,087			23,481		4,614	764,568
September	2020			741,087		741,087			23,481		4,614	764,568
October	2020			741,087		741,087			23,481		4,614	764,568
November	2020			741,087		741,087			23,481		4,614	764,568
December	2020			741,087		741,087			23,481		4,614	764,568
January	2021			741,087		741,087			23,481		4,614	764,568
February	2021			741,087		741,087			23,481		4,614	764,568
March	2021			741,087		741,087			23,481		4,614	764,568
April	2021			741,087		741,087			23,481		4,614	764,568
May	2021			741,087		741,087			23,481		4,614	764,568
June	2021			741,087		741,087			23,481		4,614	764,568
July	2021			741,087		741,087			23,481		4,614	764,568
August	2021			741,087		741,087			23,481		4,614	764,568
September	2021			741,087		741,087			23,481		4,614	764,568
October	2021			741,087		741,087			23,481		4,614	764,568
November	2021			741,087		741,087			23,481		4,614	764,568
December	2021			741,087		741,087			23,481		4,614	764,568
January	2022			741,087		741,087			23,481		4,614	764,568
February	2022			741,087		741,087			23,481		4,614	764,568
March	2022			741,087		741,087			23,481		4,614	764,568
April	2022			741,087		741,087			23,481		4,614	764,568
May	2022			741,087		741,087			23,481		4,614	764,568
June	2022			741,087		741,087			23,481		4,614	764,568
July	2022			741,087		741,087			23,481		4,614	764,568
August	2022			741,087		741,087			23,481		4,614	764,568
September	2022			741,087		741,087			23,481		4,614	764,568
October	2022			741,087		741,087			23,481		4,614	764,568
November	2022			741,087		741,087			23,481		4,614	764,568
December	2022			741,087		741,087			23,481		4,614	764,568
January	2023			741,087		741,087			23,481		4,614	764,568
February	2023			741,087		741,087			23,481		4,614	764,568
March	2023			741,087		741,087			23,481		4,614	764,568
April	2023			741,087		741,087			23,481		4,614	764,568
May	2023			741,087		741,087			23,481		4,614	764,568
June	2023			741,087		741,087			23,481		4,614	764,568
July	2023			741,087		741,087			23,481		4,614	764,568
August	2023			741,087		741,087			23,481		4,614	764,568
September	2023			741,087		741,087			23,481		4,614	764,568
October	2023			741,087		741,087			23,481		4,614	764,568
November	2023			741,087		741,087			23,481		4,614	764,568
December	2023			741,087		741,087			23,481		4,614	764,568
January	2024			741,087		741,087			23,481		4,614	764,568
February	2024			741,087		741,087			23,481		4,614	764,568
March	2024			741,087		741,087			23,481		4,614	764,568
April	2024			741,087		741,087			23,481		4,614	764,568
May	2024			741,087		741,087			23,481		4,614	764,568
June	2024			741,087		741,087			23,481		4,614	764,568
July	2024			741,087		741,087			23,481		4,614	764,568
August	2024			741,087		741,087			23,481		4,614	764,568
September	2024			741,087		741,087			23,481		4,614	764,568
October	2024			741,087		741,087			23,481		4,614	764,568
November	2024			741,087		741,087			23,481		4,614	764,568
December	2024			741,087		741,087			23,481		4,614	764,568

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA					NC					System	VA	NC	System	VA	NC	System
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
January	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
February	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
March	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
April	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
May	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
June	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
July	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
August	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
September	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
October	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
November	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
December	2020			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
January	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
February	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
March	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
April	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
May	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
June	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
July	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
August	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
September	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
October	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
November	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
December	2021			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
January	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
February	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
March	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
April	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
May	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
June	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
July	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
August	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
September	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
October	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
November	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
December	2022			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
January	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
February	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
March	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
April	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
May	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
June	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
July	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
August	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
September	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
October	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
November	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
December	2023			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
January	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
February	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
March	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
April	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
May	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
June	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
July	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
August	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
September	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
October	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
November	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04
December	2024			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04



# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2025			22,934		22,934			420		101	23,354
February	2025			22,934		22,934			420		101	23,354
March	2025			22,934		22,934			420		101	23,354
April	2025			22,934		22,934			420		101	23,354
May	2025			22,934		22,934			420		101	23,354
June	2025			22,934		22,934			420		101	23,354
July	2025			22,934		22,934			420		101	23,354
August	2025			22,934		22,934			420		101	23,354
September	2025			22,934		22,934			420		101	23,354
October	2025			22,934		22,934			420		101	23,354
November	2025			22,934		22,934			420		101	23,354
December	2025			22,934		22,934			420		101	23,354
January	2026			22,934		22,934			420		101	23,354
February	2026			22,934		22,934			420		101	23,354
March	2026			22,934		22,934			420		101	23,354
April	2026			22,934		22,934			420		101	23,354
May	2026			22,934		22,934			420		101	23,354
June	2026			22,934		22,934			420		101	23,354
July	2026			22,934		22,934			420		101	23,354
August	2026			22,934		22,934			420		101	23,354
September	2026			22,934		22,934			420		101	23,354
October	2026			22,934		22,934			420		101	23,354
November	2026			22,934		22,934			420		101	23,354
December	2026			22,934		22,934			420		101	23,354
January	2027			22,934		22,934			420		101	23,354
February	2027			22,934		22,934			420		101	23,354
March	2027			22,934		22,934			420		101	23,354
April	2027			22,934		22,934			420		101	23,354
May	2027			22,934		22,934			420		101	23,354
June	2027			22,934		22,934			420		101	23,354
July	2027			22,934		22,934			420		101	23,354
August	2027			22,934		22,934			420		101	23,354
September	2027			22,934		22,934			420		101	23,354
October	2027			22,934		22,934			420		101	23,354
November	2027			22,934		22,934			420		101	23,354
December	2027			22,934		22,934			420		101	23,354
January	2028			22,934		22,934			420		101	23,354
February	2028			22,934		22,934			420		101	23,354
March	2028			22,934		22,934			420		101	23,354
April	2028			22,934		22,934			420		101	23,354
May	2028			22,934		22,934			420		101	23,354
June	2028			22,934		22,934			420		101	23,354
July	2028			22,934		22,934			420		101	23,354
August	2028			22,934		22,934			420		101	23,354
September	2028			22,934		22,934			420		101	23,354
October	2028			22,934		22,934			420		101	23,354
November	2028			22,934		22,934			420		101	23,354
December	2028			22,934		22,934			420		101	23,354
January	2029			22,934		22,934			420		101	23,354
February	2029			22,934		22,934			420		101	23,354
March	2029			22,934		22,934			420		101	23,354
April	2029			22,934		22,934			420		101	23,354
May	2029			22,934		22,934			420		101	23,354
June	2029			22,934		22,934			420		101	23,354
July	2029			22,934		22,934			420		101	23,354
August	2029			22,934		22,934			420		101	23,354
September	2029			22,934		22,934			420		101	23,354
October	2029		-44	22,890		22,890			420		101	23,310
November	2029		-712	22,178		22,178			420		101	22,598
December	2029		-767	21,411		21,411			420		101	21,831

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2025			741,087		741,087			23,481		4,614	764,568
February	2025			741,087		741,087			23,481		4,614	764,568
March	2025			741,087		741,087			23,481		4,614	764,568
April	2025			741,087		741,087			23,481		4,614	764,568
May	2025			741,087		741,087			23,481		4,614	764,568
June	2025			741,087		741,087			23,481		4,614	764,568
July	2025			741,087		741,087			23,481		4,614	764,568
August	2025			741,087		741,087			23,481		4,614	764,568
September	2025			741,087		741,087			23,481		4,614	764,568
October	2025			741,087		741,087			23,481		4,614	764,568
November	2025			741,087		741,087			23,481		4,614	764,568
December	2025			741,087		741,087			23,481		4,614	764,568
January	2026			741,087		741,087			23,481		4,614	764,568
February	2026			741,087		741,087			23,481		4,614	764,568
March	2026			741,087		741,087			23,481		4,614	764,568
April	2026			741,087		741,087			23,481		4,614	764,568
May	2026			741,087		741,087			23,481		4,614	764,568
June	2026			741,087		741,087			23,481		4,614	764,568
July	2026			741,087		741,087			23,481		4,614	764,568
August	2026			741,087		741,087			23,481		4,614	764,568
September	2026			741,087		741,087			23,481		4,614	764,568
October	2026			741,087		741,087			23,481		4,614	764,568
November	2026			741,087		741,087			23,481		4,614	764,568
December	2026			741,087		741,087			23,481		4,614	764,568
January	2027			741,087		741,087			23,481		4,614	764,568
February	2027			741,087		741,087			23,481		4,614	764,568
March	2027			741,087		741,087			23,481		4,614	764,568
April	2027			741,087		741,087			23,481		4,614	764,568
May	2027			741,087		741,087			23,481		4,614	764,568
June	2027			741,087		741,087			23,481		4,614	764,568
July	2027			741,087		741,087			23,481		4,614	764,568
August	2027			741,087		741,087			23,481		4,614	764,568
September	2027			741,087		741,087			23,481		4,614	764,568
October	2027			741,087		741,087			23,481		4,614	764,568
November	2027			741,087		741,087			23,481		4,614	764,568
December	2027			741,087		741,087			23,481		4,614	764,568
January	2028			741,087		741,087			23,481		4,614	764,568
February	2028			741,087		741,087			23,481		4,614	764,568
March	2028			741,087		741,087			23,481		4,614	764,568
April	2028			741,087		741,087			23,481		4,614	764,568
May	2028			741,087		741,087			23,481		4,614	764,568
June	2028			741,087		741,087			23,481		4,614	764,568
July	2028			741,087		741,087			23,481		4,614	764,568
August	2028			741,087		741,087			23,481		4,614	764,568
September	2028			741,087		741,087			23,481		4,614	764,568
October	2028			741,087		741,087			23,481		4,614	764,568
November	2028			741,087		741,087			23,481		4,614	764,568
December	2028			741,087		741,087			23,481		4,614	764,568
January	2029			741,087		741,087			23,481		4,614	764,568
February	2029			741,087		741,087			23,481		4,614	764,568
March	2029			741,087		741,087			23,481		4,614	764,568
April	2029			741,087		741,087			23,481		4,614	764,568
May	2029			741,087		741,087			23,481		4,614	764,568
June	2029			741,087		741,087			23,481		4,614	764,568
July	2029			741,087		741,087			23,481		4,614	764,568
August	2029			741,087		741,087			23,481		4,614	764,568
September	2029			741,087		741,087			23,481		4,614	764,568
October	2029		-2,281	738,805		738,805			23,481		4,614	762,287
November	2029		-53,883	684,922		684,922			23,481		4,614	708,404
December	2029		-25,855	659,067		659,067			23,481		4,614	682,549

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant				
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP				
		VA					NC					System			VA	NC	System	VA	NC
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP							
January	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
February	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
March	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
April	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
May	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
June	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
July	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
August	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
September	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
October	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
November	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
December	2025			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
January	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
February	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
March	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
April	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
May	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
June	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
July	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
August	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
September	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
October	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
November	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
December	2026			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
January	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
February	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
March	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
April	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
May	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
June	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
July	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
August	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
September	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
October	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
November	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
December	2027			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
January	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
February	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
March	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
April	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
May	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
June	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
July	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
August	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
September	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
October	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
November	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
December	2028			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
January	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
February	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
March	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
April	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
May	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
June	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
July	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
August	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
September	2029			970		970			39		16	1,009	32	56	33	0.04	0.09	0.04	
October	2029		-3	968		968			39		16	1,007	32	56	33	0.04	0.09	0.04	
November	2029		-45	922		922			39		16	961	31	56	31	0.04	0.09	0.04	
December	2029		-32	890		890			39		16	929	31	56	31	0.04	0.09	0.04	

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2030		-114	21,297		21,297			420		101	21,717
February	2030		-224	21,073		21,073			420		101	21,493
March	2030		-295	20,778		20,778			420		101	21,198
April	2030		-544	20,234		20,234			420		101	20,654
May	2030		-319	19,915		19,915			420		101	20,335
June	2030		-623	19,292		19,292			420		101	19,712
July	2030		-638	18,654		18,654		-20	400		81	19,054
August	2030		-1,891	16,763		16,763		-12	388		69	17,151
September	2030		-769	15,994		15,994		-9	379		60	16,373
October	2030		-904	15,090		15,090		-25	354		35	15,444
November	2030		-1,566	13,524		13,524		-37	317		-2	13,841
December	2030		-516	13,008		13,008		-54	263		-56	13,271
January	2031		-428	12,580		12,580		-42	221		-98	12,801
February	2031		-202	12,378		12,378		-16	205		-114	12,583
March	2031		-737	11,641		11,641		-12	193		-126	11,834
April	2031		-507	11,134		11,134		-13	180		-139	11,314
May	2031		-617	10,517		10,517		-6	174		-145	10,691
June	2031		-585	9,932		9,932		-4	170		-149	10,102
July	2031		-443	9,489		9,489		-2	168		-151	9,657
August	2031		-252	9,237		9,237		-4	164		-155	9,401
September	2031		-101	9,136		9,136		-2	162		-157	9,298
October	2031		-513	8,623		8,623		0	162		-157	8,785
November	2031		-822	7,801		7,801		-7	155		-164	7,956
December	2031		-763	7,038		7,038		-22	133		-186	7,171
January	2032		0	7,038		7,038		0	133		-186	7,171
February	2032		0	7,038		7,038		0	133		-186	7,171
March	2032		0	7,038		7,038		0	133		-186	7,171
April	2032		0	7,038		7,038		0	133		-186	7,171
May	2032		0	7,038		7,038		0	133		-186	7,171
June	2032		0	7,038		7,038		0	133		-186	7,171
July	2032		0	7,038		7,038		0	133		-186	7,171
August	2032		0	7,038		7,038		0	133		-186	7,171
September	2032		0	7,038		7,038		0	133		-186	7,171
October	2032		0	7,038		7,038		0	133		-186	7,171
November	2032		0	7,038		7,038		0	133		-186	7,171
December	2032		0	7,038		7,038		0	133		-186	7,171
January	2033		-2	7,036		7,036		-1	132		-187	7,168
February	2033		0	7,036		7,036		0	132		-187	7,168
March	2033		0	7,036		7,036		0	132		-187	7,168
April	2033		0	7,036		7,036		0	132		-187	7,168
May	2033		0	7,036		7,036		0	132		-187	7,168
June	2033		0	7,036		7,036		0	132		-187	7,168
July	2033		0	7,036		7,036		0	132		-187	7,168
August	2033		0	7,036		7,036		0	132		-187	7,168
September	2033		-75	6,961		6,961		0	132		-187	7,093
October	2033		-100	6,861		6,861		0	132		-187	6,993
November	2033		-387	6,474		6,474		0	132		-187	6,606
December	2033		-577	5,897		5,897		0	132		-187	6,029
January	2034		-76	5,821		5,821		0	132		-187	5,953
February	2034		-16	5,805		5,805		0	132		-187	5,937
March	2034		-16	5,789		5,789		0	132		-187	5,921
April	2034		-615	5,174		5,174		-6	126		-193	5,300
May	2034		-219	4,955		4,955		0	126		-193	5,081
June	2034		-734	4,221		4,221		-25	101		-218	4,322
July	2034		-293	3,928		3,928		-77	24		-295	3,952
August	2034		-435	3,493		3,493		-4	20		-299	3,513
September	2034		-564	2,929		2,929		-20	0		-319	2,929
October	2034		-869	2,060		2,060		0	0		-319	2,060
November	2034		-1,036	1,024		1,024		0	0		-319	1,024
December	2034		-1,024	0		0		0	0		-319	0
January	2035		0	0		0		0	0		-319	0
February	2035		0	0		0		0	0		-319	0
March	2035		0	0		0		0	0		-319	0
April	2035		0	0		0		0	0		-319	0
May	2035		0	0		0		0	0		-319	0
June	2035		0	0		0		0	0		-319	0
July	2035		0	0		0		0	0		-319	0
August	2035		0	0		0		0	0		-319	0
September	2035		0	0		0		0	0		-319	0
October	2035		0	0		0		0	0		-319	0
November	2035		0	0		0		0	0		-319	0
December	2035		0	0		0		0	0		-319	0

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 1		Energy Savings										
Month	Year	Gross kWh					NC					System
		VA		VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
VA Monthly New	VA Monthly Retired	NC Monthly New	NC Monthly Retired									
January	2030		-4,539	654,529		654,529			23,481		4,614	678,010
February	2030		-6,899	647,630		647,630			23,481		4,614	671,111
March	2030		-14,316	633,314		633,314			23,481		4,614	656,795
April	2030		-19,114	614,199		614,199			23,481		4,614	637,680
May	2030		-9,925	604,274		604,274			23,481		4,614	627,756
June	2030		-22,148	582,126		582,126			23,481		4,614	605,608
July	2030		-24,233	557,894		557,894		-973	22,508		3,641	580,402
August	2030		-63,722	494,171		494,171		-622	21,885		3,018	516,057
September	2030		-30,733	463,439		463,439		-544	21,341		2,474	484,780
October	2030		-27,675	435,764		435,764		-1,248	20,094		1,226	455,857
November	2030		-56,461	379,303		379,303		-2,965	17,129		-1,739	396,432
December	2030		-18,193	361,110		361,110		-2,512	14,616		-4,251	375,726
January	2031		-18,352	342,758		342,758		-3,422	11,195		-7,673	353,952
February	2031		-4,908	337,849		337,849		-871	10,324		-8,543	348,173
March	2031		-38,804	299,045		299,045		-918	9,406		-9,461	308,451
April	2031		-18,499	280,547		280,547		-594	8,812		-10,055	289,359
May	2031		-25,937	254,609		254,609		-360	8,452		-10,415	263,062
June	2031		-18,400	236,209		236,209		-225	8,228		-10,639	244,437
July	2031		-11,618	224,591		224,591		-152	8,076		-10,791	232,668
August	2031		-10,035	214,556		214,556		-456	7,620		-11,247	222,176
September	2031		-2,840	211,716		211,716		-443	7,177		-11,690	218,893
October	2031		-15,534	196,182		196,182		0	7,177		-11,690	203,359
November	2031		-20,094	176,088		176,088		-364	6,814		-12,054	182,901
December	2031		-17,623	158,465		158,465		-1,347	5,467		-13,400	163,932
January	2032		0	158,465		158,465		0	5,467		-13,400	163,932
February	2032		0	158,465		158,465		0	5,467		-13,400	163,932
March	2032		0	158,465		158,465		0	5,467		-13,400	163,932
April	2032		0	158,465		158,465		0	5,467		-13,400	163,932
May	2032		0	158,465		158,465		0	5,467		-13,400	163,932
June	2032		0	158,465		158,465		0	5,467		-13,400	163,932
July	2032		0	158,465		158,465		0	5,467		-13,400	163,932
August	2032		0	158,465		158,465		0	5,467		-13,400	163,932
September	2032		0	158,465		158,465		0	5,467		-13,400	163,932
October	2032		0	158,465		158,465		0	5,467		-13,400	163,932
November	2032		0	158,465		158,465		0	5,467		-13,400	163,932
December	2032		0	158,465		158,465		0	5,467		-13,400	163,932
January	2033		-73	158,392		158,392		-60	5,407		-13,461	163,799
February	2033		0	158,392		158,392		0	5,407		-13,461	163,799
March	2033		0	158,392		158,392		0	5,407		-13,461	163,799
April	2033		0	158,392		158,392		0	5,407		-13,461	163,799
May	2033		0	158,392		158,392		0	5,407		-13,461	163,799
June	2033		0	158,392		158,392		0	5,407		-13,461	163,799
July	2033		0	158,392		158,392		0	5,407		-13,461	163,799
August	2033		0	158,392		158,392		0	5,407		-13,461	163,799
September	2033		-2,148	156,244		156,244		0	5,407		-13,461	161,651
October	2033		-4,578	151,666		151,666		0	5,407		-13,461	157,073
November	2033		-18,486	133,180		133,180		0	5,407		-13,461	138,587
December	2033		-12,030	121,150		121,150		0	5,407		-13,461	126,557
January	2034		-1,944	119,206		119,206		0	5,407		-13,461	124,613
February	2034		-295	118,911		118,911		0	5,407		-13,461	124,318
March	2034		-412	118,500		118,500		0	5,407		-13,461	123,906
April	2034		-10,256	108,244		108,244		-218	5,189		-13,678	113,432
May	2034		-4,897	103,346		103,346		0	5,189		-13,678	108,535
June	2034		-14,943	88,404		88,404		-575	4,614		-14,253	93,018
July	2034		-5,429	82,975		82,975		-3,598	1,017		-17,851	83,992
August	2034		-10,674	72,301		72,301		-134	882		-17,985	73,183
September	2034		-10,706	61,595		61,595		-882	0		-18,867	61,595
October	2034		-20,268	41,327		41,327		0	0		-18,867	41,327
November	2034		-19,568	21,759		21,759		0	0		-18,867	21,759
December	2034		-21,759	0		0		0	0		-18,867	0
January	2035		0	0		0		0	0		-18,867	0
February	2035		0	0		0		0	0		-18,867	0
March	2035		0	0		0		0	0		-18,867	0
April	2035		0	0		0		0	0		-18,867	0
May	2035		0	0		0		0	0		-18,867	0
June	2035		0	0		0		0	0		-18,867	0
July	2035		0	0		0		0	0		-18,867	0
August	2035		0	0		0		0	0		-18,867	0
September	2035		0	0		0		0	0		-18,867	0
October	2035		0	0		0		0	0		-18,867	0
November	2035		0	0		0		0	0		-18,867	0
December	2035		0	0		0		0	0		-18,867	0



# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

**Table 2. EM&V Data Incremental by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2015			1,523		1,523			-		-	1,523
2016			8,403		8,403			157		157	8,560
2017			5,970		5,970			130		130	6,100
2018			1,141		1,141			1		1	1,142
2019			5,897		5,897			132		101	6,029

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2015			1,523		1,523			-		-	1,523
2016			8,403		8,403			157		157	8,560
2017			5,970		5,970			130		130	6,100
2018			1,141		1,141			1		1	1,142
2019			5,897		5,897			132		101	6,029

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants										
	VA							NC PPI			System
2015								-			
2016								157			
2017								287			
2018								288			
2019								420			
2020								420			
2021								420			

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

**Table 2. EM&V Data Incremental by Vintage Year**

	Gross Incremental Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2015		140,465		140,465		-		-		140,465
2016		1,481,057		1,481,057		23,315		23,315		1,504,371
2017		1,400,701		1,400,701		76,649		76,649		1,477,350
2018		72,201		72,201		723		723		72,924
2019		517,238		517,238		31,769		30,184		549,006

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2015		984,230		984,230		-		-		984,230
2016		3,575,492		3,575,492		106,379		106,379		3,681,872
2017		2,431,737		2,431,737		109,794		109,794		2,541,531
2018		447,775		447,775		723		723		448,498
2019		1,453,805		1,453,805		64,879		55,369		1,518,684

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross Energy (kWh) for PPI									
	VA						NC PPI		System	
2015								-		
2016								8,865		
2017								18,014		
2018								18,075		
2019								23,481		
2020								23,481		
2021								23,481		



# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System		
2015				80	80	-	-	80	92	-	92	0.05	-	0.05		
2016				398	398	11	11	409	176	149	176	0.05	0.07	0.05		
2017				228	228	9	9	237	235	590	242	0.04	0.07	0.04		
2018				35	35	-	-	35	63	723	64	0.03	0.00	0.03		
2019				229	229	19	16	248	88	241	91	0.04	0.14	0.04		

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System		
2015				80	80	-	-	80	646	-	646	0.05	-	0.05		
2016				398	398	11	11	409	426	678	430	0.05	0.07	0.05		
2017				228	228	9	9	237	407	845	417	0.04	0.07	0.04		
2018				35	35	-	-	35	392	723	393	0.03	0.00	0.03		
2019				229	229	19	16	248	247	492	252	0.04	0.14	0.04		

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System		
2015																
2016						11							56	0.07		
2017						20							63	0.07		
2018						20							63	0.07		
2019						39							56	0.09		
2020						39							56	0.09		
2021						39							56	0.09		

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2015	1,523	1,523	-	-	1,523					
2016	9,926	9,926	157	157	10,083					
2017	15,896	15,896	287	287	16,183					
2018	17,037	17,037	288	288	17,325					
2019	22,934	22,934	420	101	23,354					
2020	22,934	22,934	420	101	23,354					
2021	22,934	22,934	420	101	23,354					
2022	22,934	22,934	420	101	23,354					
2023	22,934	22,934	420	101	23,354					
2024	22,934	22,934	420	101	23,354					
2025	22,934	22,934	420	101	23,354					
2026	22,934	22,934	420	101	23,354					
2027	22,934	22,934	420	101	23,354					
2028	22,934	22,934	420	101	23,354					
2029	21,411	21,411	420	101	21,831					
2030	13,008	13,008	263	-	13,271					
2031	7,038	7,038	133	-	7,171					
2032	7,038	7,038	133	-	7,171					
2033	5,897	5,897	132	-	6,029					
2034	-	-	-	-	-					
2035	-	-	-	-	-					

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

Year	Program Participants									
	VA Lifetime	NC Lifetime	System Lifetime							
2015	1,523	-	1,523							
2016	9,926	157	10,083							
2017	15,896	287	16,183							
2018	17,037	288	17,325							
2019	22,934	420	23,354							
2020	22,934	420	23,354							
2021	22,934	420	23,354							
2022	22,934	420	23,354							
2023	22,934	420	23,354							
2024	22,934	420	23,354							
2025	22,934	420	23,354							
2026	22,934	420	23,354							
2027	22,934	420	23,354							
2028	22,934	420	23,354							
2029	22,934	420	23,354							
2030	22,934	420	23,354							
2031	22,934	420	23,354							
2032	22,934	420	23,354							
2033	22,934	420	23,354							
2034	22,934	420	23,354							
2035	22,934	420	23,354							

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Gross Energy (kWh)					System IRP
	VA IRP	VA NLR	NC IRP	NC NLR		
2015	140,465	140,465	-	-	140,465	
2016	2,465,287	2,465,287	23,315	23,315	2,488,602	
2017	5,960,423	5,960,423	183,029	183,029	6,143,452	
2018	7,063,661	7,063,661	216,897	216,897	7,280,558	
2019	7,956,472	7,956,472	248,666	210,931	8,205,138	
2020	8,893,039	8,893,039	281,776	55,369	9,174,816	
2021	8,893,039	8,893,039	281,776	55,369	9,174,816	
2022	8,893,039	8,893,039	281,776	55,369	9,174,816	
2023	8,893,039	8,893,039	281,776	55,369	9,174,816	
2024	8,893,039	8,893,039	281,776	55,369	9,174,816	
2025	8,893,039	8,893,039	281,776	55,369	9,174,816	
2026	8,893,039	8,893,039	281,776	55,369	9,174,816	
2027	8,893,039	8,893,039	281,776	55,369	9,174,816	
2028	8,893,039	8,893,039	281,776	55,369	9,174,816	
2029	8,752,574	8,752,574	281,776	55,369	9,034,351	
2030	6,427,752	6,427,752	258,462	32,054	6,686,214	
2031	2,932,616	2,932,616	98,747	-	3,031,363	
2032	1,901,580	1,901,580	65,602	-	1,967,182	
2033	1,829,379	1,829,379	64,879	-	1,894,258	
2034	936,567	936,567	33,110	-	969,677	
2035	-	-	-	-	-	

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

Year	Gross Energy (kWh)					System Lifetime
	VA Lifetime	VA Lifetime	NC Lifetime	NC Lifetime		
2015	140,465	-	-	-	140,465	
2016	2,605,752	-	23,315	-	2,629,067	
2017	8,566,176	-	206,343	-	8,772,519	
2018	15,629,837	-	423,240	-	16,053,077	
2019	23,586,309	-	671,906	-	24,258,215	
2020	32,479,348	-	953,682	-	33,433,031	
2021	41,372,388	-	1,235,458	-	42,607,846	
2022	50,265,427	-	1,517,234	-	51,782,662	
2023	59,158,467	-	1,799,011	-	60,957,477	
2024	68,051,506	-	2,080,787	-	70,132,293	
2025	76,944,546	-	2,362,563	-	79,307,108	
2026	85,837,585	-	2,644,339	-	88,481,924	
2027	94,730,624	-	2,926,115	-	97,656,740	
2028	103,623,664	-	3,207,891	-	106,831,555	
2029	112,376,238	-	3,489,667	-	115,865,906	
2030	118,803,991	-	3,748,129	-	122,552,120	
2031	121,736,607	-	3,846,876	-	125,583,483	
2032	123,638,186	-	3,912,479	-	127,550,665	
2033	125,467,565	-	3,977,358	-	129,444,922	
2034	126,404,132	-	4,010,468	-	130,414,600	
2035	126,404,132	-	4,010,468	-	130,414,600	

# Appendix C.1 Residential Income and Age Qualifying Home Improvement Program 2015-2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2015	80	80	-	-	80	92	-	92	0.05	-	0.05					
2016	478	478	11	11	489	248	149	247	0.05	0.07	0.05					
2017	706	706	20	20	726	375	638	380	0.04	0.07	0.04					
2018	741	741	20	20	761	415	753	420	0.04	0.07	0.04					
2019	970	970	39	39	1,009	347	592	351	0.04	0.09	0.04					
2020	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2021	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2022	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2023	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2024	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2025	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2026	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2027	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2028	970	970	39	39	1,009	388	671	393	0.04	0.09	0.04					
2029	890	890	39	39	929	409	671	414	0.04	0.09	0.04					
2030	492	492	28	28	520	494	983	504	0.04	0.11	0.04					
2031	264	264	19	19	283	417	742	423	0.04	0.14	0.04					
2032	264	264	19	19	283	270	493	274	0.04	0.14	0.04					
2033	240	240	19	19	259	310	492	314	0.04	0.14	0.04					
2034	-	-	-	-	0	-	-	-	-	-	-					
2035	-	-	-	-	0	-	-	-	-	-	-					

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA Lifetime	VA NLR	NC Lifetime	NC NLR	System Lifetime	VA	NC	System	VA	NC	System					
2015	80	80	-	-	80	92	-	92	0.05	-	0.05					
2016	478	478	11	11	489	263	149	261	0.05	0.07	0.05					
2017	706	706	20	20	726	539	719	542	0.04	0.07	0.04					
2018	741	741	20	20	761	917	1,470	927	0.04	0.07	0.04					
2019	970	970	39	39	1,009	1,028	1,600	1,039	0.04	0.09	0.04					
2020	970	970	39	39	1,009	1,416	2,271	1,432	0.04	0.09	0.04					
2021	970	970	39	39	1,009	1,804	2,942	1,824	0.04	0.09	0.04					
2022	970	970	39	39	1,009	2,192	3,612	2,217	0.04	0.09	0.04					
2023	970	970	39	39	1,009	2,580	4,283	2,610	0.04	0.09	0.04					
2024	970	970	39	39	1,009	2,967	4,954	3,003	0.04	0.09	0.04					
2025	970	970	39	39	1,009	3,355	5,625	3,396	0.04	0.09	0.04					
2026	970	970	39	39	1,009	3,743	6,296	3,789	0.04	0.09	0.04					
2027	970	970	39	39	1,009	4,131	6,967	4,182	0.04	0.09	0.04					
2028	970	970	39	39	1,009	4,518	7,638	4,574	0.04	0.09	0.04					
2029	970	970	39	39	1,009	4,900	8,309	4,961	0.04	0.09	0.04					
2030	970	970	39	39	1,009	5,180	8,924	5,248	0.04	0.09	0.04					
2031	970	970	39	39	1,009	5,308	9,159	5,377	0.04	0.09	0.04					
2032	970	970	39	39	1,009	5,391	9,315	5,462	0.04	0.09	0.04					
2033	970	970	39	39	1,009	5,471	9,470	5,543	0.04	0.09	0.04					
2034	970	970	39	39	1,009	5,512	9,549	5,584	0.04	0.09	0.04					
2035	970	970	39	39	1,009	5,512	9,549	5,584	0.04	0.09	0.04					

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

**PROGRAM: Residential LED Program**  
**DSM Phase VI Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 20.0 years**

Table 1		Participation										
Month	Year	VA					NC				System	
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	System Cum for IRP
December	2016											0
January	2017						0			0		0
February	2017						0			0		0
March	2017						0			0		0
April	2017						0			0		0
May	2017						0			0		0
June	2017						0			0		0
July	2017						0			0		0
August	2017						5,018			5,018		5,018
September	2017						14,683			19,701		19,701
October	2017						14,758			34,459		34,459
November	2017						19,836			54,295		54,295
December	2017						15,966			70,261		70,261
January	2018						12,482			82,743		82,743
February	2018						29,279			112,022		112,022
March	2018						13,614			125,636		125,636
April	2018						21,629			147,265		147,265
May	2018						11,552			158,817		158,817
June	2018						14,694			173,511		173,511
July	2018						20,050			193,561		193,561
August	2018						25,185			218,746		218,746
September	2018						32,534			251,280		251,280
October	2018						11,899			263,179		263,179
November	2018						42,003			305,182		305,182
December	2018						29,315			334,497		334,497
January	2019						0			334,497		334,497
February	2019						0			334,497		334,497
March	2019						0			334,497		334,497
April	2019						0			334,497		334,497
May	2019						0			334,497		334,497
June	2019						0			334,497		334,497
July	2019						0			334,497		334,497
August	2019						0			334,497		334,497
September	2019						0			334,497		334,497
October	2019						0			334,497		334,497
November	2019						0			334,497		334,497
December	2019						0			334,497		334,497
January	2020									334,497		334,497
February	2020									334,497		334,497
March	2020									334,497		334,497
April	2020									334,497		334,497
May	2020									334,497		334,497
June	2020									334,497		334,497
July	2020									334,497		334,497
August	2020									334,497		334,497
September	2020									334,497		334,497
October	2020									334,497		334,497
November	2020									334,497		334,497
December	2020									334,497		334,497
January	2021									334,497		334,497
February	2021									334,497		334,497
March	2021									334,497		334,497
April	2021									334,497		334,497
May	2021									334,497		334,497
June	2021									334,497		334,497
July	2021									334,497		334,497
August	2021									334,497		334,497
September	2021									334,497		334,497
October	2021									334,497		334,497
November	2021									334,497		334,497
December	2021									334,497		334,497

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Energy Savings										
Month	Year	VA					NC				System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
December	2016											0
January	2017						0			0		0
February	2017						0			0		0
March	2017						0			0		0
April	2017						0			0		0
May	2017						0			0		0
June	2017						0			0		0
July	2017						0			0		0
August	2017						13,036			13,036		13,036
September	2017						37,513			50,548		50,548
October	2017						38,005			88,553		88,553
November	2017						53,335			141,888		141,888
December	2017						42,701			184,589		184,589
January	2018						23,284			207,873		207,873
February	2018						56,030			263,903		263,903
March	2018						25,803			289,706		289,706
April	2018						39,612			329,318		329,318
May	2018						22,347			351,665		351,665
June	2018						28,746			380,411		380,411
July	2018						37,711			418,121		418,121
August	2018						46,404			464,525		464,525
September	2018						53,821			518,346		518,346
October	2018						23,797			542,142		542,142
November	2018						75,855			617,997		617,997
December	2018						59,781			677,778		677,778
January	2019						0			677,778		677,778
February	2019						0			677,778		677,778
March	2019						0			677,778		677,778
April	2019						0			677,778		677,778
May	2019						0			677,778		677,778
June	2019						0			677,778		677,778
July	2019						0			677,778	0	677,778
August	2019						0			677,778	0	677,778
September	2019						0			677,778	0	677,778
October	2019						0			677,778	0	677,778
November	2019						0			677,778	0	677,778
December	2019						0			677,778	0	677,778
January	2020									677,778	0	677,778
February	2020									677,778	0	677,778
March	2020									677,778	0	677,778
April	2020									677,778	0	677,778
May	2020									677,778	0	677,778
June	2020									677,778	0	677,778
July	2020									677,778	0	677,778
August	2020									677,778	0	677,778
September	2020									677,778	0	677,778
October	2020									677,778	0	677,778
November	2020									677,778	0	677,778
December	2020									677,778	0	677,778
January	2021									677,778	0	677,778
February	2021									677,778	0	677,778
March	2021									677,778	0	677,778
April	2021									677,778	0	677,778
May	2021									677,778	0	677,778
June	2021									677,778	0	677,778
July	2021									677,778	0	677,778
August	2021									677,778	0	677,778
September	2021									677,778	0	677,778
October	2021									677,778	0	677,778
November	2021									677,778	0	677,778
December	2021									677,778	0	677,778

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
December	2016										0							
January	2017						0			0	0							
February	2017						0			0	0							
March	2017						0			0	0							
April	2017						0			0	0							
May	2017						0			0	0							
June	2017						0			0	0							
July	2017						0			0	0							
August	2017						17			17	17			3			0.00	0.00
September	2017						49			66	66			3			0.00	0.00
October	2017						50			116	116			3			0.00	0.00
November	2017						70			186	186			3			0.00	0.00
December	2017						56			242	242			3			0.00	0.00
January	2018						29			271	271			3			0.00	0.00
February	2018						69			340	340			2			0.00	0.00
March	2018						32			372	372			2			0.00	0.00
April	2018						49			420	420			2			0.00	0.00
May	2018						27			448	448			2			0.00	0.00
June	2018						35			483	483			2			0.00	0.00
July	2018						46			529	529			2			0.00	0.00
August	2018						57			586	586			2			0.00	0.00
September	2018						66			653	653			2			0.00	0.00
October	2018						29			682	682			2			0.00	0.00
November	2018						93			775	775			2			0.00	0.00
December	2018						73			848	848			2			0.00	0.00
January	2019						0			848	848			2			0.00	0.00
February	2019						0			848	848			2			0.00	0.00
March	2019						0			848	848			2			0.00	0.00
April	2019						0			848	848			2			0.00	0.00
May	2019						0			848	848			2			0.00	0.00
June	2019						0			848	848			2			0.00	0.00
July	2019						0			848	848			2			0.00	0.00
August	2019						0			848	848			2			0.00	0.00
September	2019						0			848	848			2			0.00	0.00
October	2019						0			848	848			2			0.00	0.00
November	2019						0			848	848			2			0.00	0.00
December	2019						0			848	848			2			0.00	0.00
January	2020									848	848			2			0.00	0.00
February	2020									848	848			2			0.00	0.00
March	2020									848	848			2			0.00	0.00
April	2020									848	848			2			0.00	0.00
May	2020									848	848			2			0.00	0.00
June	2020									848	848			2			0.00	0.00
July	2020									848	848			2			0.00	0.00
August	2020									848	848			2			0.00	0.00
September	2020									848	848			2			0.00	0.00
October	2020									848	848			2			0.00	0.00
November	2020									848	848			2			0.00	0.00
December	2020									848	848			2			0.00	0.00
January	2021									848	848			2			0.00	0.00
February	2021									848	848			2			0.00	0.00
March	2021									848	848			2			0.00	0.00
April	2021									848	848			2			0.00	0.00
May	2021									848	848			2			0.00	0.00
June	2021									848	848			2			0.00	0.00
July	2021									848	848			2			0.00	0.00
August	2021									848	848			2			0.00	0.00
September	2021									848	848			2			0.00	0.00
October	2021									848	848			2			0.00	0.00
November	2021									848	848			2			0.00	0.00
December	2021									848	848			2			0.00	0.00

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Participation											
		Program Participants											
		VA					NC					System	
Month	Year	VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2022										334,497	0	334,497
February	2022										334,497	0	334,497
March	2022										334,497	0	334,497
April	2022										334,497	0	334,497
May	2022										334,497	0	334,497
June	2022										334,497	0	334,497
July	2022										334,497	0	334,497
August	2022										334,497	0	334,497
September	2022										334,497	0	334,497
October	2022										334,497	0	334,497
November	2022										334,497	0	334,497
December	2022										334,497	0	334,497
January	2023										334,497	0	334,497
February	2023										334,497	0	334,497
March	2023										334,497	0	334,497
April	2023										334,497	0	334,497
May	2023										334,497	0	334,497
June	2023										334,497	0	334,497
July	2023										334,497	0	334,497
August	2023										334,497	0	334,497
September	2023										334,497	0	334,497
October	2023										334,497	0	334,497
November	2023										334,497	0	334,497
December	2023										334,497	0	334,497
January	2024										334,497	0	334,497
February	2024										334,497	0	334,497
March	2024										334,497	0	334,497
April	2024										334,497	0	334,497
May	2024										334,497	0	334,497
June	2024										334,497	0	334,497
July	2024										334,497	0	334,497
August	2024										334,497	0	334,497
September	2024										334,497	0	334,497
October	2024										334,497	0	334,497
November	2024										334,497	0	334,497
December	2024										334,497	0	334,497
January	2025										334,497	0	334,497
February	2025										334,497	0	334,497
March	2025										334,497	0	334,497
April	2025										334,497	0	334,497
May	2025										334,497	0	334,497
June	2025										334,497	0	334,497
July	2025										334,497	0	334,497
August	2025										334,497	0	334,497
September	2025										334,497	0	334,497
October	2025										334,497	0	334,497
November	2025										334,497	0	334,497
December	2025										334,497	0	334,497
January	2026										334,497	0	334,497
February	2026										334,497	0	334,497
March	2026										334,497	0	334,497
April	2026										334,497	0	334,497
May	2026										334,497	0	334,497
June	2026										334,497	0	334,497
July	2026										334,497	0	334,497
August	2026										334,497	0	334,497
September	2026										334,497	0	334,497
October	2026										334,497	0	334,497
November	2026										334,497	0	334,497
December	2026										334,497	0	334,497



# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Energy Savings											
Month	Year	Gross kWh											
		VA					NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2022									677,778		0	677,778
February	2022									677,778		0	677,778
March	2022									677,778		0	677,778
April	2022									677,778		0	677,778
May	2022									677,778		0	677,778
June	2022									677,778		0	677,778
July	2022									677,778		0	677,778
August	2022									677,778		0	677,778
September	2022									677,778		0	677,778
October	2022									677,778		0	677,778
November	2022									677,778		0	677,778
December	2022									677,778		0	677,778
January	2023									677,778		0	677,778
February	2023									677,778		0	677,778
March	2023									677,778		0	677,778
April	2023									677,778		0	677,778
May	2023									677,778		0	677,778
June	2023									677,778		0	677,778
July	2023									677,778		0	677,778
August	2023									677,778		0	677,778
September	2023									677,778		0	677,778
October	2023									677,778		0	677,778
November	2023									677,778		0	677,778
December	2023									677,778		0	677,778
January	2024									677,778		0	677,778
February	2024									677,778		0	677,778
March	2024									677,778		0	677,778
April	2024									677,778		0	677,778
May	2024									677,778		0	677,778
June	2024									677,778		0	677,778
July	2024									677,778		0	677,778
August	2024									677,778		0	677,778
September	2024									677,778		0	677,778
October	2024									677,778		0	677,778
November	2024									677,778		0	677,778
December	2024									677,778		0	677,778
January	2025									677,778		0	677,778
February	2025									677,778		0	677,778
March	2025									677,778		0	677,778
April	2025									677,778		0	677,778
May	2025									677,778		0	677,778
June	2025									677,778		0	677,778
July	2025									677,778		0	677,778
August	2025									677,778		0	677,778
September	2025									677,778		0	677,778
October	2025									677,778		0	677,778
November	2025									677,778		0	677,778
December	2025									677,778		0	677,778
January	2026									677,778		0	677,778
February	2026									677,778		0	677,778
March	2026									677,778		0	677,778
April	2026									677,778		0	677,778
May	2026									677,778		0	677,778
June	2026									677,778		0	677,778
July	2026									677,778		0	677,778
August	2026									677,778		0	677,778
September	2026									677,778		0	677,778
October	2026									677,778		0	677,778
November	2026									677,778		0	677,778
December	2026									677,778		0	677,778

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant				
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		VA	NC	System	VA	NC	System	
January	2022									848	0	848		2	2			0.00	0.00
February	2022									848	0	848		2	2			0.00	0.00
March	2022									848	0	848		2	2			0.00	0.00
April	2022									848	0	848		2	2			0.00	0.00
May	2022									848	0	848		2	2			0.00	0.00
June	2022									848	0	848		2	2			0.00	0.00
July	2022									848	0	848		2	2			0.00	0.00
August	2022									848	0	848		2	2			0.00	0.00
September	2022									848	0	848		2	2			0.00	0.00
October	2022									848	0	848		2	2			0.00	0.00
November	2022									848	0	848		2	2			0.00	0.00
December	2022									848	0	848		2	2			0.00	0.00
January	2023									848	0	848		2	2			0.00	0.00
February	2023									848	0	848		2	2			0.00	0.00
March	2023									848	0	848		2	2			0.00	0.00
April	2023									848	0	848		2	2			0.00	0.00
May	2023									848	0	848		2	2			0.00	0.00
June	2023									848	0	848		2	2			0.00	0.00
July	2023									848	0	848		2	2			0.00	0.00
August	2023									848	0	848		2	2			0.00	0.00
September	2023									848	0	848		2	2			0.00	0.00
October	2023									848	0	848		2	2			0.00	0.00
November	2023									848	0	848		2	2			0.00	0.00
December	2023									848	0	848		2	2			0.00	0.00
January	2024									848	0	848		2	2			0.00	0.00
February	2024									848	0	848		2	2			0.00	0.00
March	2024									848	0	848		2	2			0.00	0.00
April	2024									848	0	848		2	2			0.00	0.00
May	2024									848	0	848		2	2			0.00	0.00
June	2024									848	0	848		2	2			0.00	0.00
July	2024									848	0	848		2	2			0.00	0.00
August	2024									848	0	848		2	2			0.00	0.00
September	2024									848	0	848		2	2			0.00	0.00
October	2024									848	0	848		2	2			0.00	0.00
November	2024									848	0	848		2	2			0.00	0.00
December	2024									848	0	848		2	2			0.00	0.00
January	2025									848	0	848		2	2			0.00	0.00
February	2025									848	0	848		2	2			0.00	0.00
March	2025									848	0	848		2	2			0.00	0.00
April	2025									848	0	848		2	2			0.00	0.00
May	2025									848	0	848		2	2			0.00	0.00
June	2025									848	0	848		2	2			0.00	0.00
July	2025									848	0	848		2	2			0.00	0.00
August	2025									848	0	848		2	2			0.00	0.00
September	2025									848	0	848		2	2			0.00	0.00
October	2025									848	0	848		2	2			0.00	0.00
November	2025									848	0	848		2	2			0.00	0.00
December	2025									848	0	848		2	2			0.00	0.00
January	2026									848	0	848		2	2			0.00	0.00
February	2026									848	0	848		2	2			0.00	0.00
March	2026									848	0	848		2	2			0.00	0.00
April	2026									848	0	848		2	2			0.00	0.00
May	2026									848	0	848		2	2			0.00	0.00
June	2026									848	0	848		2	2			0.00	0.00
July	2026									848	0	848		2	2			0.00	0.00
August	2026									848	0	848		2	2			0.00	0.00
September	2026									848	0	848		2	2			0.00	0.00
October	2026									848	0	848		2	2			0.00	0.00
November	2026									848	0	848		2	2			0.00	0.00
December	2026									848	0	848		2	2			0.00	0.00

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Participation										
Month	Year	Program Participants										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2027									334,497	0	334,497
February	2027					334,497				334,497	0	334,497
March	2027									334,497	0	334,497
April	2027									334,497	0	334,497
May	2027									334,497	0	334,497
June	2027									334,497	0	334,497
July	2027									334,497	0	334,497
August	2027									334,497	0	334,497
September	2027									334,497	0	334,497
October	2027									334,497	0	334,497
November	2027									334,497	0	334,497
December	2027									334,497	0	334,497
January	2028									334,497	0	334,497
February	2028									334,497	0	334,497
March	2028									334,497	0	334,497
April	2028									334,497	0	334,497
May	2028									334,497	0	334,497
June	2028									334,497	0	334,497
July	2028									334,497	0	334,497
August	2028									334,497	0	334,497
September	2028									334,497	0	334,497
October	2028									334,497	0	334,497
November	2028									334,497	0	334,497
December	2028									334,497	0	334,497
January	2029									334,497	0	334,497
February	2029									334,497	0	334,497
March	2029									334,497	0	334,497
April	2029									334,497	0	334,497
May	2029									334,497	0	334,497
June	2029									334,497	0	334,497
July	2029									334,497	0	334,497
August	2029									334,497	0	334,497
September	2029									334,497	0	334,497
October	2029									334,497	0	334,497
November	2029									334,497	0	334,497
December	2029									334,497	0	334,497
January	2030									334,497	0	334,497
February	2030									334,497	0	334,497
March	2030									334,497	0	334,497
April	2030									334,497	0	334,497
May	2030									334,497	0	334,497
June	2030									334,497	0	334,497
July	2030									334,497	0	334,497
August	2030									334,497	0	334,497
September	2030									334,497	0	334,497
October	2030									334,497	0	334,497
November	2030									334,497	0	334,497
December	2030									334,497	0	334,497
January	2031									334,497	0	334,497
February	2031									334,497	0	334,497
March	2031									334,497	0	334,497
April	2031									334,497	0	334,497
May	2031									334,497	0	334,497
June	2031									334,497	0	334,497
July	2031									334,497	0	334,497
August	2031									334,497	0	334,497
September	2031									334,497	0	334,497
October	2031									334,497	0	334,497
November	2031									334,497	0	334,497
December	2031									334,497	0	334,497

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2027									677,778	0	677,778
February	2027									677,778	0	677,778
March	2027									677,778	0	677,778
April	2027									677,778	0	677,778
May	2027									677,778	0	677,778
June	2027									677,778	0	677,778
July	2027									677,778	0	677,778
August	2027									677,778	0	677,778
September	2027									677,778	0	677,778
October	2027									677,778	0	677,778
November	2027									677,778	0	677,778
December	2027									677,778	0	677,778
January	2028									677,778	0	677,778
February	2028									677,778	0	677,778
March	2028									677,778	0	677,778
April	2028									677,778	0	677,778
May	2028									677,778	0	677,778
June	2028									677,778	0	677,778
July	2028									677,778	0	677,778
August	2028									677,778	0	677,778
September	2028									677,778	0	677,778
October	2028									677,778	0	677,778
November	2028									677,778	0	677,778
December	2028									677,778	0	677,778
January	2029									677,778	0	677,778
February	2029									677,778	0	677,778
March	2029									677,778	0	677,778
April	2029									677,778	0	677,778
May	2029									677,778	0	677,778
June	2029									677,778	0	677,778
July	2029									677,778	0	677,778
August	2029									677,778	0	677,778
September	2029									677,778	0	677,778
October	2029									677,778	0	677,778
November	2029									677,778	0	677,778
December	2029									677,778	0	677,778
January	2030									677,778	0	677,778
February	2030									677,778	0	677,778
March	2030									677,778	0	677,778
April	2030									677,778	0	677,778
May	2030									677,778	0	677,778
June	2030									677,778	0	677,778
July	2030									677,778	0	677,778
August	2030									677,778	0	677,778
September	2030									677,778	0	677,778
October	2030									677,778	0	677,778
November	2030									677,778	0	677,778
December	2030									677,778	0	677,778
January	2031									677,778	0	677,778
February	2031									677,778	0	677,778
March	2031									677,778	0	677,778
April	2031									677,778	0	677,778
May	2031									677,778	0	677,778
June	2031									677,778	0	677,778
July	2031									677,778	0	677,778
August	2031									677,778	0	677,778
September	2031									677,778	0	677,778
October	2031									677,778	0	677,778
November	2031									677,778	0	677,778
December	2031									677,778	0	677,778

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant				
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		VA	NC	System	VA	NC	System	
January	2027									848	0	848		2	2			0.00	0.00
February	2027									848	0	848		2	2			0.00	0.00
March	2027									848	0	848		2	2			0.00	0.00
April	2027									848	0	848		2	2			0.00	0.00
May	2027									848	0	848		2	2			0.00	0.00
June	2027									848	0	848		2	2			0.00	0.00
July	2027									848	0	848		2	2			0.00	0.00
August	2027									848	0	848		2	2			0.00	0.00
September	2027									848	0	848		2	2			0.00	0.00
October	2027									848	0	848		2	2			0.00	0.00
November	2027									848	0	848		2	2			0.00	0.00
December	2027									848	0	848		2	2			0.00	0.00
January	2028									848	0	848		2	2			0.00	0.00
February	2028									848	0	848		2	2			0.00	0.00
March	2028									848	0	848		2	2			0.00	0.00
April	2028									848	0	848		2	2			0.00	0.00
May	2028									848	0	848		2	2			0.00	0.00
June	2028									848	0	848		2	2			0.00	0.00
July	2028									848	0	848		2	2			0.00	0.00
August	2028									848	0	848		2	2			0.00	0.00
September	2028									848	0	848		2	2			0.00	0.00
October	2028									848	0	848		2	2			0.00	0.00
November	2028									848	0	848		2	2			0.00	0.00
December	2028									848	0	848		2	2			0.00	0.00
January	2029									848	0	848		2	2			0.00	0.00
February	2029									848	0	848		2	2			0.00	0.00
March	2029									848	0	848		2	2			0.00	0.00
April	2029									848	0	848		2	2			0.00	0.00
May	2029									848	0	848		2	2			0.00	0.00
June	2029									848	0	848		2	2			0.00	0.00
July	2029									848	0	848		2	2			0.00	0.00
August	2029									848	0	848		2	2			0.00	0.00
September	2029									848	0	848		2	2			0.00	0.00
October	2029									848	0	848		2	2			0.00	0.00
November	2029									848	0	848		2	2			0.00	0.00
December	2029									848	0	848		2	2			0.00	0.00
January	2030									848	0	848		2	2			0.00	0.00
February	2030									848	0	848		2	2			0.00	0.00
March	2030									848	0	848		2	2			0.00	0.00
April	2030									848	0	848		2	2			0.00	0.00
May	2030									848	0	848		2	2			0.00	0.00
June	2030									848	0	848		2	2			0.00	0.00
July	2030									848	0	848		2	2			0.00	0.00
August	2030									848	0	848		2	2			0.00	0.00
September	2030									848	0	848		2	2			0.00	0.00
October	2030									848	0	848		2	2			0.00	0.00
November	2030									848	0	848		2	2			0.00	0.00
December	2030									848	0	848		2	2			0.00	0.00
January	2031									848	0	848		2	2			0.00	0.00
February	2031									848	0	848		2	2			0.00	0.00
March	2031									848	0	848		2	2			0.00	0.00
April	2031									848	0	848		2	2			0.00	0.00
May	2031									848	0	848		2	2			0.00	0.00
June	2031									848	0	848		2	2			0.00	0.00
July	2031									848	0	848		2	2			0.00	0.00
August	2031									848	0	848		2	2			0.00	0.00
September	2031									848	0	848		2	2			0.00	0.00
October	2031									848	0	848		2	2			0.00	0.00
November	2031									848	0	848		2	2			0.00	0.00
December	2031									848	0	848		2	2			0.00	0.00

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Participation										
Month	Year	Program Participants										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2032									334,497	0	334,497
February	2032					334,497				334,497	0	334,497
March	2032									334,497	0	334,497
April	2032									334,497	0	334,497
May	2032									334,497	0	334,497
June	2032									334,497	0	334,497
July	2032									334,497	0	334,497
August	2032									334,497	0	334,497
September	2032									334,497	0	334,497
October	2032									334,497	0	334,497
November	2032									334,497	0	334,497
December	2032									334,497	0	334,497
January	2033									334,497	0	334,497
February	2033									334,497	0	334,497
March	2033									334,497	0	334,497
April	2033									334,497	0	334,497
May	2033									334,497	0	334,497
June	2033									334,497	0	334,497
July	2033									334,497	0	334,497
August	2033									334,497	0	334,497
September	2033									334,497	0	334,497
October	2033									334,497	0	334,497
November	2033									334,497	0	334,497
December	2033									334,497	0	334,497
January	2034									334,497	0	334,497
February	2034									334,497	0	334,497
March	2034									334,497	0	334,497
April	2034									334,497	0	334,497
May	2034									334,497	0	334,497
June	2034									334,497	0	334,497
July	2034									334,497	0	334,497
August	2034									334,497	0	334,497
September	2034									334,497	0	334,497
October	2034									334,497	0	334,497
November	2034									334,497	0	334,497
December	2034									334,497	0	334,497
January	2035									334,497	0	334,497
February	2035									334,497	0	334,497
March	2035									334,497	0	334,497
April	2035									334,497	0	334,497
May	2035									334,497	0	334,497
June	2035									334,497	0	334,497
July	2035									334,497	0	334,497
August	2035									334,497	0	334,497
September	2035									334,497	0	334,497
October	2035									334,497	0	334,497
November	2035									334,497	0	334,497
December	2035									334,497	0	334,497
January	2036									334,497	0	334,497
February	2036									334,497	0	334,497
March	2036									334,497	0	334,497
April	2036									334,497	0	334,497
May	2036									334,497	0	334,497
June	2036									334,497	0	334,497
July	2036									334,497	0	334,497
August	2036									334,497	0	334,497
September	2036									334,497	0	334,497
October	2036									334,497	0	334,497
November	2036									334,497	0	334,497
December	2036									334,497	0	334,497

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Energy Savings											
Month	Year	Gross kWh											
		VA					NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2032									677,778		0	677,778
February	2032									677,778		0	677,778
March	2032									677,778		0	677,778
April	2032									677,778		0	677,778
May	2032									677,778		0	677,778
June	2032									677,778		0	677,778
July	2032									677,778		0	677,778
August	2032									677,778		0	677,778
September	2032									677,778		0	677,778
October	2032									677,778		0	677,778
November	2032									677,778		0	677,778
December	2032									677,778		0	677,778
January	2033									677,778		0	677,778
February	2033									677,778		0	677,778
March	2033									677,778		0	677,778
April	2033									677,778		0	677,778
May	2033									677,778		0	677,778
June	2033									677,778		0	677,778
July	2033									677,778		0	677,778
August	2033									677,778		0	677,778
September	2033									677,778		0	677,778
October	2033									677,778		0	677,778
November	2033									677,778		0	677,778
December	2033									677,778		0	677,778
January	2034									677,778		0	677,778
February	2034									677,778		0	677,778
March	2034									677,778		0	677,778
April	2034									677,778		0	677,778
May	2034									677,778		0	677,778
June	2034									677,778		0	677,778
July	2034									677,778		0	677,778
August	2034									677,778		0	677,778
September	2034									677,778		0	677,778
October	2034									677,778		0	677,778
November	2034									677,778		0	677,778
December	2034									677,778		0	677,778
January	2035									677,778		0	677,778
February	2035									677,778		0	677,778
March	2035									677,778		0	677,778
April	2035									677,778		0	677,778
May	2035									677,778		0	677,778
June	2035									677,778		0	677,778
July	2035									677,778		0	677,778
August	2035									677,778		0	677,778
September	2035									677,778		0	677,778
October	2035									677,778		0	677,778
November	2035									677,778		0	677,778
December	2035									677,778		0	677,778
January	2036									677,778		0	677,778
February	2036									677,778		0	677,778
March	2036									677,778		0	677,778
April	2036									677,778		0	677,778
May	2036									677,778		0	677,778
June	2036									677,778		0	677,778
July	2036									677,778		0	677,778
August	2036									677,778		0	677,778
September	2036									677,778		0	677,778
October	2036									677,778		0	677,778
November	2036									677,778		0	677,778
December	2036									677,778		0	677,778

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant					
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP				
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		VA	NC	System	VA	NC	System		
January	2032									848	0	848			2	2			0.00	0.00
February	2032									848	0	848			2	2			0.00	0.00
March	2032									848	0	848			2	2			0.00	0.00
April	2032									848	0	848			2	2			0.00	0.00
May	2032									848	0	848			2	2			0.00	0.00
June	2032									848	0	848			2	2			0.00	0.00
July	2032									848	0	848			2	2			0.00	0.00
August	2032									848	0	848			2	2			0.00	0.00
September	2032									848	0	848			2	2			0.00	0.00
October	2032									848	0	848			2	2			0.00	0.00
November	2032									848	0	848			2	2			0.00	0.00
December	2032									848	0	848			2	2			0.00	0.00
January	2033									848	0	848			2	2			0.00	0.00
February	2033									848	0	848			2	2			0.00	0.00
March	2033									848	0	848			2	2			0.00	0.00
April	2033									848	0	848			2	2			0.00	0.00
May	2033									848	0	848			2	2			0.00	0.00
June	2033									848	0	848			2	2			0.00	0.00
July	2033									848	0	848			2	2			0.00	0.00
August	2033									848	0	848			2	2			0.00	0.00
September	2033									848	0	848			2	2			0.00	0.00
October	2033									848	0	848			2	2			0.00	0.00
November	2033									848	0	848			2	2			0.00	0.00
December	2033									848	0	848			2	2			0.00	0.00
January	2034									848	0	848			2	2			0.00	0.00
February	2034									848	0	848			2	2			0.00	0.00
March	2034									848	0	848			2	2			0.00	0.00
April	2034									848	0	848			2	2			0.00	0.00
May	2034									848	0	848			2	2			0.00	0.00
June	2034									848	0	848			2	2			0.00	0.00
July	2034									848	0	848			2	2			0.00	0.00
August	2034									848	0	848			2	2			0.00	0.00
September	2034									848	0	848			2	2			0.00	0.00
October	2034									848	0	848			2	2			0.00	0.00
November	2034									848	0	848			2	2			0.00	0.00
December	2034									848	0	848			2	2			0.00	0.00
January	2035									848	0	848			2	2			0.00	0.00
February	2035									848	0	848			2	2			0.00	0.00
March	2035									848	0	848			2	2			0.00	0.00
April	2035									848	0	848			2	2			0.00	0.00
May	2035									848	0	848			2	2			0.00	0.00
June	2035									848	0	848			2	2			0.00	0.00
July	2035									848	0	848			2	2			0.00	0.00
August	2035									848	0	848			2	2			0.00	0.00
September	2035									848	0	848			2	2			0.00	0.00
October	2035									848	0	848			2	2			0.00	0.00
November	2035									848	0	848			2	2			0.00	0.00
December	2035									848	0	848			2	2			0.00	0.00
January	2036									848	0	848			2	2			0.00	0.00
February	2036									848	0	848			2	2			0.00	0.00
March	2036									848	0	848			2	2			0.00	0.00
April	2036									848	0	848			2	2			0.00	0.00
May	2036									848	0	848			2	2			0.00	0.00
June	2036									848	0	848			2	2			0.00	0.00
July	2036									848	0	848			2	2			0.00	0.00
August	2036									848	0	848			2	2			0.00	0.00
September	2036									848	0	848			2	2			0.00	0.00
October	2036									848	0	848			2	2			0.00	0.00
November	2036									848	0	848			2	2			0.00	0.00
December	2036									848	0	848			2	2			0.00	0.00



## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Participation											
Month	Year	Program Participants					NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2037										334,497	0	334,497
February	2037										334,497	0	334,497
March	2037										334,497	0	334,497
April	2037										334,497	0	334,497
May	2037										334,497	0	334,497
June	2037										334,497	0	334,497
July	2037										334,497	0	334,497
August	2037									-5,018	329,479	-5,018	329,479
September	2037									-14,683	314,796	-19,701	314,796
October	2037									-14,758	300,038	-34,459	300,038
November	2037									-19,836	280,202	-54,295	280,202
December	2037									-15,966	264,236	-70,261	264,236
January	2038									-12,482	251,754	-82,743	251,754
February	2038									-29,279	222,475	-112,022	222,475
March	2038									-13,614	208,861	-125,636	208,861
April	2038									-21,629	187,232	-147,265	187,232
May	2038									-11,552	175,680	-158,817	175,680
June	2038									-14,694	160,986	-173,511	160,986
July	2038									-20,050	140,936	-193,561	140,936
August	2038									-25,185	115,751	-218,746	115,751
September	2038									-32,534	83,217	-251,280	83,217
October	2038									-11,899	71,318	-263,179	71,318
November	2038									-42,003	29,315	-305,182	29,315
December	2038									-29,315	0	-334,497	0
January	2039									0	0	-334,497	0
February	2039									0	0	-334,497	0
March	2039									0	0	-334,497	0
April	2039									0	0	-334,497	0
May	2039									0	0	-334,497	0
June	2039									0	0	-334,497	0
July	2039									0	0	-334,497	0
August	2039									0	0	-334,497	0
September	2039									0	0	-334,497	0
October	2039									0	0	-334,497	0
November	2039									0	0	-334,497	0
December	2039									0	0	-334,497	0
January	2040									0	0	-334,497	0
February	2040									0	0	-334,497	0
March	2040									0	0	-334,497	0
April	2040									0	0	-334,497	0
May	2040									0	0	-334,497	0
June	2040									0	0	-334,497	0
July	2040									0	0	-334,497	0
August	2040									0	0	-334,497	0
September	2040									0	0	-334,497	0
October	2040									0	0	-334,497	0
November	2040									0	0	-334,497	0
December	2040									0	0	-334,497	0

Table 2. EM&V Data Incremental by Vintage Year									
	Program Participants								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2017			70,261	70,261	70,261				
2018			264,236	264,236	264,236				
2019			-	-334,497	-				

Table 3. EM&V Data Annualized by Vintage Year									
	Program Participants								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2017			70,261	70,261	70,261				
2018			264,236	264,236	264,236				
2019			-	-	-				

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Energy Savings											
Month	Year	VA					NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2037									677,778		0	677,778
February	2037									677,778		0	677,778
March	2037									677,778		0	677,778
April	2037									677,778		0	677,778
May	2037									677,778		0	677,778
June	2037									677,778		0	677,778
July	2037									677,778		0	677,778
August	2037									-13,036		-13,036	664,742
September	2037									-37,513		-50,548	627,230
October	2037									-38,005		-88,553	589,225
November	2037									-53,335		-141,888	535,890
December	2037									-42,701		-184,589	493,189
January	2038									-23,284		-207,873	469,905
February	2038									-56,030		-263,903	413,875
March	2038									-25,803		-289,706	388,072
April	2038									-39,612		-329,318	348,460
May	2038									-22,347		-351,665	326,113
June	2038									-28,746		-380,411	297,367
July	2038									-37,711		-418,121	259,657
August	2038									-46,404		-464,525	213,253
September	2038									-53,821		-518,346	159,432
October	2038									-23,797		-542,142	135,636
November	2038									-75,855		-617,997	59,781
December	2038									-59,781		-677,778	0
January	2039									0		-677,778	0
February	2039									0		-677,778	0
March	2039									0		-677,778	0
April	2039									0		-677,778	0
May	2039									0		-677,778	0
June	2039									0		-677,778	0
July	2039									0		-677,778	0
August	2039									0		-677,778	0
September	2039									0		-677,778	0
October	2039									0		-677,778	0
November	2039									0		-677,778	0
December	2039									0		-677,778	0
January	2040									0		-677,778	0
February	2040									0		-677,778	0
March	2040									0		-677,778	0
April	2040									0		-677,778	0
May	2040									0		-677,778	0
June	2040									0		-677,778	0
July	2040									0		-677,778	0
August	2040									0		-677,778	0
September	2040									0		-677,778	0
October	2040									0		-677,778	0
November	2040									0		-677,778	0
December	2040									0		-677,778	0

Table 2. EM&V Data Incremental by Vintage Year									
	Gross Incremental Energy (kWh)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2017			478,614	478,614	478,614				
2018			2,846,712	2,846,712	2,846,712				
2019			-	-	-				

Table 3. EM&V Data Annualized by Vintage Year									
	Gross Annualized Energy (kWh)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2017			2,215,073	2,215,073	2,215,073				
2018			5,918,263	5,918,263	5,918,263				
2019			-	-	-				

# Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant					
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP					
		VA					NC					System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
January	2037									848	0	848			2	2			0.00	0.00
February	2037									848	0	848			2	2			0.00	0.00
March	2037									848	0	848			2	2			0.00	0.00
April	2037									848	0	848			2	2			0.00	0.00
May	2037									848	0	848			2	2			0.00	0.00
June	2037									848	0	848			2	2			0.00	0.00
July	2037									848	0	848			2	2			0.00	0.00
August	2037									831	-17	831			2	2			0.00	0.00
September	2037									782	-49	782			2	2			0.00	0.00
October	2037									732	-50	732			2	2			0.00	0.00
November	2037									662	-70	662			2	2			0.00	0.00
December	2037									606	-56	606			2	2			0.00	0.00
January	2038									577	-29	577			2	2			0.00	0.00
February	2038									509	-69	509			2	2			0.00	0.00
March	2038									477	-32	477			2	2			0.00	0.00
April	2038									428	-49	428			2	2			0.00	0.00
May	2038									401	-27	401			2	2			0.00	0.00
June	2038									365	-35	365			2	2			0.00	0.00
July	2038									319	-46	319			2	2			0.00	0.00
August	2038									262	-57	262			2	2			0.00	0.00
September	2038									196	-66	196			2	2			0.00	0.00
October	2038									167	-29	167			2	2			0.00	0.00
November	2038									73	-93	73			2	2			0.00	0.00
December	2038									0	-73	0			-	-			-	-
January	2039									0	0	0			-	-			-	-
February	2039									0	0	0			-	-			-	-
March	2039									0	0	0			-	-			-	-
April	2039									0	0	0			-	-			-	-
May	2039									0	0	0			-	-			-	-
June	2039									0	0	0			-	-			-	-
July	2039									0	0	0			-	-			-	-
August	2039									0	0	0			-	-			-	-
September	2039									0	0	0			-	-			-	-
October	2039									0	0	0			-	-			-	-
November	2039									0	0	0			-	-			-	-
December	2039									0	0	0			-	-			-	-
January	2040									0	0	0			-	-			-	-
February	2040									0	0	0			-	-			-	-
March	2040									0	0	0			-	-			-	-
April	2040									0	0	0			-	-			-	-
May	2040									0	0	0			-	-			-	-
June	2040									0	0	0			-	-			-	-
July	2040									0	0	0			-	-			-	-
August	2040									0	0	0			-	-			-	-
September	2040									0	0	0			-	-			-	-
October	2040									0	0	0			-	-			-	-
November	2040									0	0	0			-	-			-	-
December	2040									0	0	0			-	-			-	-

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant					
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP					
			VA IRP	VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System			
2017									242			242		7	7			0.00	0.00
2018									606			606		11	11			0.00	0.00
2019									-			-		-	-			-	-

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant					
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP					
			VA IRP	VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System			
2017									242			242		32	32			0.00	0.00
2018									606			606		22	22			0.00	0.00
2019									-			-		-	-			-	-

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)									
	Program Participants							NC PPI	System
	VA								
2017							70,261		
2018							334,497		
2019							334,497		

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										
	Program Participants							NC IRP	NC NLR	System IRP
	VA IRP	VA NLR								
2017	-	-					70,261	70,261	70,261	
2018	-	-					334,497	334,497	334,497	
2019							334,497	-	334,497	
2020							334,497	-	334,497	
2021							334,497	-	334,497	
2022							334,497	-	334,497	
2023							334,497	-	334,497	
2024							334,497	-	334,497	
2025							334,497	-	334,497	
2026							334,497	-	334,497	
2027							334,497	-	334,497	
2028							334,497	-	334,497	
2029							334,497	-	334,497	
2030							334,497	-	334,497	
2031							334,497	-	334,497	
2032							334,497	-	334,497	
2033							334,497	-	334,497	
2034							334,497	-	334,497	
2035							334,497	-	334,497	
2036							334,497	-	334,497	
2037							264,236	-	264,236	
2038							-	-	-	
2039							-	-	-	
2040							-	-	-	

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)									
	Program Participants							NC Lifetime	System Lifetime
	VA Lifetime								
2017	-						334,497	334,497	
2018	-						334,497	334,497	
2019	-						334,497	334,497	
2020	-						334,497	334,497	
2021	-						334,497	334,497	
2022	-						334,497	334,497	
2023	-						334,497	334,497	
2024	-						334,497	334,497	
2025	-						334,497	334,497	
2026	-						334,497	334,497	
2027	-						334,497	334,497	
2028	-						334,497	334,497	
2029	-						334,497	334,497	
2030	-						334,497	334,497	
2031	-						334,497	334,497	
2032	-						334,497	334,497	
2033	-						334,497	334,497	
2034	-						334,497	334,497	
2035	-						334,497	334,497	
2036	-						334,497	334,497	
2037	-						334,497	334,497	
2038	-						334,497	334,497	
2039	-						334,497	334,497	
2040	-						334,497	334,497	

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)									
	Gross Energy (kWh) for PPI								
	VA						NC PPI		System
2017							478,614		
2018							5,061,784		
2019							5,918,263		

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										
	Gross Energy (kWh)									
			VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2017							478,614		478,614	478,614
2018							5,061,784		5,061,784	5,061,784
2019							8,133,336		6,777,780	8,133,336
2020							8,133,336		-	8,133,336
2021							8,133,336		-	8,133,336
2022							8,133,336		-	8,133,336
2023							8,133,336		-	8,133,336
2024							8,133,336		-	8,133,336
2025							8,133,336		-	8,133,336
2026							8,133,336		-	8,133,336
2027							8,133,336		-	8,133,336
2028							8,133,336		-	8,133,336
2029							8,133,336		-	8,133,336
2030							8,133,336		-	8,133,336
2031							8,133,336		-	8,133,336
2032							8,133,336		-	8,133,336
2033							8,133,336		-	8,133,336
2034							8,133,336		-	8,133,336
2035							8,133,336		-	8,133,336
2036							8,133,336		-	8,133,336
2037							7,654,722		-	7,654,722
2038							3,071,552		-	3,071,552
2039							-		-	-
2040							-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)									
	Gross Energy (kWh)								
			VA Lifetime				NC Lifetime		System Lifetime
2017							478,614		478,614
2018							5,540,399		5,540,399
2019							13,673,735		13,673,735
2020							21,807,071		21,807,071
2021							29,940,407		29,940,407
2022							38,073,742		38,073,742
2023							46,207,078		46,207,078
2024							54,340,414		54,340,414
2025							62,473,750		62,473,750
2026							70,607,086		70,607,086
2027							78,740,422		78,740,422
2028							86,873,758		86,873,758
2029							95,007,094		95,007,094
2030							103,140,430		103,140,430
2031							111,273,766		111,273,766
2032							119,407,102		119,407,102
2033							127,540,438		127,540,438
2034							135,673,774		135,673,774
2035							143,807,110		143,807,110
2036							151,940,445		151,940,445
2037							159,595,167		159,595,167
2038							162,666,719		162,666,719
2039							162,666,719		162,666,719
2040							162,666,719		162,666,719

## Appendix C.2 Residential Retail LED Lighting Program 2017-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA							NC PPI		System	VA	NC	System	VA	NC	System
2017								242				7			0.00	
2018								848				15			0.00	
2019								848				18			0.00	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
		VA IRP		VA NLR				NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2017								242		242	242		7	7		0.00	0.00
2018								848		848	848		15	15		0.00	0.00
2019								848		-	848		24	24		0.00	0.00
2020								848		-	848		24	24		0.00	0.00
2021								848		-	848		24	24		0.00	0.00
2022								848		-	848		24	24		0.00	0.00
2023								848		-	848		24	24		0.00	0.00
2024								848		-	848		24	24		0.00	0.00
2025								848		-	848		24	24		0.00	0.00
2026								848		-	848		24	24		0.00	0.00
2027								848		-	848		24	24		0.00	0.00
2028								848		-	848		24	24		0.00	0.00
2029								848		-	848		24	24		0.00	0.00
2030								848		-	848		24	24		0.00	0.00
2031								848		-	848		24	24		0.00	0.00
2032								848		-	848		24	24		0.00	0.00
2033								848		-	848		24	24		0.00	0.00
2034								848		-	848		24	24		0.00	0.00
2035								848		-	848		24	24		0.00	0.00
2036								848		-	848		24	24		0.00	0.00
2037								606		-	606		29	29		0.00	0.00
2038								-		-	-		-	-		-	-
2039								-		-	-		-	-		-	-
2040								-		-	-		-	-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
		VA Lifetime						NC Lifetime		System Lifetime	VA	NC	System	VA	NC	System
2017								848		848		1	1		0.00	0.00
2018								848		848		17	17		0.00	0.00
2019								848		848		41	41		0.00	0.00
2020								848		848		65	65		0.00	0.00
2021								848		848		90	90		0.00	0.00
2022								848		848		114	114		0.00	0.00
2023								848		848		138	138		0.00	0.00
2024								848		848		162	162		0.00	0.00
2025								848		848		187	187		0.00	0.00
2026								848		848		211	211		0.00	0.00
2027								848		848		235	235		0.00	0.00
2028								848		848		260	260		0.00	0.00
2029								848		848		284	284		0.00	0.00
2030								848		848		308	308		0.00	0.00
2031								848		848		333	333		0.00	0.00
2032								848		848		357	357		0.00	0.00
2033								848		848		381	381		0.00	0.00
2034								848		848		406	406		0.00	0.00
2034								848		848		430	430		0.00	0.00
2034								848		848		454	454		0.00	0.00
2034								848		848		477	477		0.00	0.00
2034								848		848		486	486		0.00	0.00
2034								848		848		486	486		0.00	0.00
2034								848		848		486	486		0.00	0.00

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

<b>PROGRAM: Residential Appliance Recycling Program</b>
<b>DSM Phase VII Program</b>
<b>Type: Energy Efficiency</b>
<b>Program Measure Life: 8 years (8 years, 0 months)</b>
<b>Current Year: 2019</b>

Table 1		Participation Program Participants										
Month	Year	VA					NC					System
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	System Cum for IRP E+G
Jan	2019	0		0		0	0	0		0		0
Feb	2019	0		0		0	0	0		0		0
Mar	2019	0		0		0	0	0		0		0
Apr	2019	0		0		0	0	0		0		0
May	2019	0		0		0	0	0		0		0
June	2019	0		0		0	0	0		0		0
Jul	2019	0		0		0	0	0	0	0		0
Aug	2019	0		0		0	0	0	0	0		0
Sept	2019	252		252		252	0	0	0	0		252
Oct	2019	656		908		908	0	0	0	0		908
Nov	2019	424		1,332		1,332	0	0	0	0		1,332
Dec	2019	247		1,579		1,579	0	0	0	0		1,579
Jan	2020	0		1,579		1,579	0	0	0	0		1,579
Feb	2020	0		1,579		1,579	0	0	0	0		1,579
Mar	2020	0		1,579		1,579	0	0	0	0		1,579
Apr	2020	0		1,579		1,579	0	0	0	0		1,579
May	2020	0		1,579		1,579	0	0	0	0		1,579
June	2020	0		1,579		1,579	0	0	0	0		1,579
Jul	2020	0		1,579		1,579	0	0	0	0		1,579
Aug	2020	0		1,579		1,579	0	0	0	0		1,579
Sept	2020	0		1,579		1,579	0	0	0	0		1,579
Oct	2020	0		1,579		1,579	0	0	0	0		1,579
Nov	2020	0		1,579		1,579	0	0	0	0		1,579
Dec	2020	0		1,579		1,579	0	0	0	0		1,579
Jan	2021	0		1,579		1,579	0	0	0	0		1,579
Feb	2021	0		1,579		1,579	0	0	0	0		1,579
Mar	2021	0		1,579		1,579	0	0	0	0		1,579
Apr	2021	0		1,579		1,579	0	0	0	0		1,579
May	2021	0		1,579		1,579	0	0	0	0		1,579
June	2021	0		1,579		1,579	0	0	0	0		1,579
Jul	2021	0		1,579		1,579	0	0	0	0		1,579
Aug	2021	0		1,579		1,579	0	0	0	0		1,579
Sept	2021	0		1,579		1,579	0	0	0	0		1,579
Oct	2021	0		1,579		1,579	0	0	0	0		1,579
Nov	2021	0		1,579		1,579	0	0	0	0		1,579
Dec	2021	0		1,579		1,579	0	0	0	0		1,579
Jan	2022	0		1,579		1,579	0	0	0	0		1,579
Feb	2022	0		1,579		1,579	0	0	0	0		1,579
Mar	2022	0		1,579		1,579	0	0	0	0		1,579
Apr	2022	0		1,579		1,579	0	0	0	0		1,579
May	2022	0		1,579		1,579	0	0	0	0		1,579
June	2022	0		1,579		1,579	0	0	0	0		1,579
Jul	2022	0		1,579		1,579	0	0	0	0		1,579
Aug	2022	0		1,579		1,579	0	0	0	0		1,579
Sept	2022	0		1,579		1,579	0	0	0	0		1,579
Oct	2022	0		1,579		1,579	0	0	0	0		1,579
Nov	2022	0		1,579		1,579	0	0	0	0		1,579
Dec	2022	0		1,579		1,579	0	0	0	0		1,579
Jan	2023	0		1,579		1,579	0	0	0	0		1,579
Feb	2023	0		1,579		1,579	0	0	0	0		1,579
Mar	2023	0		1,579		1,579	0	0	0	0		1,579
Apr	2023	0		1,579		1,579	0	0	0	0		1,579
May	2023	0		1,579		1,579	0	0	0	0		1,579
June	2023	0		1,579		1,579	0	0	0	0		1,579
Jul	2023	0		1,579		1,579	0	0	0	0		1,579
Aug	2023	0		1,579		1,579	0	0	0	0		1,579
Sept	2023	0		1,579		1,579	0	0	0	0		1,579
Oct	2023	0		1,579		1,579	0	0	0	0		1,579
Nov	2023	0		1,579		1,579	0	0	0	0		1,579
Dec	2023	0		1,579		1,579	0	0	0	0		1,579

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
Jan	2019	0		0		0	0		0		0	0
Feb	2019	0		0		0	0		0		0	0
Mar	2019	0		0		0	0		0		0	0
Apr	2019	0		0		0	0		0		0	0
May	2019	0		0		0	0		0		0	0
June	2019	0		0		0	0		0		0	0
Jul	2019	0		0		0	0		0		0	0
Aug	2019	0		0		0	0		0		0	0
Sept	2019	15,457		15,457		15,457	0		0		0	15,457
Oct	2019	40,393		55,850		55,850	0		0		0	55,850
Nov	2019	31,325		87,175		87,175	0		0		0	87,175
Dec	2019	17,451		104,626		104,626	0		0		0	104,626
Jan	2020	0		104,626		104,626	0		0		0	104,626
Feb	2020	0		104,626		104,626	0		0		0	104,626
Mar	2020	0		104,626		104,626	0		0		0	104,626
Apr	2020	0		104,626		104,626	0		0		0	104,626
May	2020	0		104,626		104,626	0		0		0	104,626
June	2020	0		104,626		104,626	0		0		0	104,626
Jul	2020	0		104,626		104,626	0		0		0	104,626
Aug	2020	0		104,626		104,626	0		0		0	104,626
Sept	2020	0		104,626		104,626	0		0		0	104,626
Oct	2020	0		104,626		104,626	0		0		0	104,626
Nov	2020	0		104,626		104,626	0		0		0	104,626
Dec	2020	0		104,626		104,626	0		0		0	104,626
Jan	2021	0		104,626		104,626	0		0		0	104,626
Feb	2021	0		104,626		104,626	0		0		0	104,626
Mar	2021	0		104,626		104,626	0		0		0	104,626
Apr	2021	0		104,626		104,626	0		0		0	104,626
May	2021	0		104,626		104,626	0		0		0	104,626
June	2021	0		104,626		104,626	0		0		0	104,626
Jul	2021	0		104,626		104,626	0		0		0	104,626
Aug	2021	0		104,626		104,626	0		0		0	104,626
Sept	2021	0		104,626		104,626	0		0		0	104,626
Oct	2021	0		104,626		104,626	0		0		0	104,626
Nov	2021	0		104,626		104,626	0		0		0	104,626
Dec	2021	0		104,626		104,626	0		0		0	104,626
Jan	2022	0		104,626		104,626	0		0		0	104,626
Feb	2022	0		104,626		104,626	0		0		0	104,626
Mar	2022	0		104,626		104,626	0		0		0	104,626
Apr	2022	0		104,626		104,626	0		0		0	104,626
May	2022	0		104,626		104,626	0		0		0	104,626
June	2022	0		104,626		104,626	0		0		0	104,626
Jul	2022	0		104,626		104,626	0		0		0	104,626
Aug	2022	0		104,626		104,626	0		0		0	104,626
Sept	2022	0		104,626		104,626	0		0		0	104,626
Oct	2022	0		104,626		104,626	0		0		0	104,626
Nov	2022	0		104,626		104,626	0		0		0	104,626
Dec	2022	0		104,626		104,626	0		0		0	104,626
Jan	2023	0		104,626		104,626	0		0		0	104,626
Feb	2023	0		104,626		104,626	0		0		0	104,626
Mar	2023	0		104,626		104,626	0		0		0	104,626
Apr	2023	0		104,626		104,626	0		0		0	104,626
May	2023	0		104,626		104,626	0		0		0	104,626
June	2023	0		104,626		104,626	0		0		0	104,626
Jul	2023	0		104,626		104,626	0		0		0	104,626
Aug	2023	0		104,626		104,626	0		0		0	104,626
Sept	2023	0		104,626		104,626	0		0		0	104,626
Oct	2023	0		104,626		104,626	0		0		0	104,626
Nov	2023	0		104,626		104,626	0		0		0	104,626
Dec	2023	0		104,626		104,626	0		0		0	104,626



# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
Jan	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
Feb	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
Mar	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
Apr	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
May	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
June	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
Jul	2019	0		0		0	0		0	0	0	0	-	-	-	-	-	-
Aug	2019	0		0		0	0		0	0	0	0	-	-	-	-	-	-
Sept	2019	28		28		28	0		0	0	28	28	61	-	-	61	0.11	-
Oct	2019	73		100		100	0		0	0	100	100	62	-	-	62	0.11	-
Nov	2019	56		157		157	0		0	0	157	157	65	-	-	65	0.12	-
Dec	2019	31		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jan	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Feb	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Mar	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Apr	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
May	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
June	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jul	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Aug	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Sept	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Oct	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Nov	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Dec	2020	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jan	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Feb	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Mar	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Apr	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
May	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
June	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jul	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Aug	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Sept	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Oct	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Nov	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Dec	2021	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jan	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Feb	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Mar	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Apr	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
May	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
June	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jul	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Aug	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Sept	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Oct	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Nov	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Dec	2022	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jan	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Feb	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Mar	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Apr	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
May	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
June	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Jul	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Aug	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Sept	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Oct	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Nov	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-
Dec	2023	0		188		188	0		0	0	188	188	66	-	-	66	0.12	-

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
Jan	2024	0		1,579		1,579	0		0		0	1,579
Feb	2024	0		1,579		1,579	0		0		0	1,579
Mar	2024	0		1,579		1,579	0		0		0	1,579
Apr	2024	0		1,579		1,579	0		0		0	1,579
May	2024	0		1,579		1,579	0		0		0	1,579
June	2024	0		1,579		1,579	0		0		0	1,579
Jul	2024	0		1,579		1,579	0		0		0	1,579
Aug	2024	0		1,579		1,579	0		0		0	1,579
Sept	2024	0		1,579		1,579	0		0		0	1,579
Oct	2024	0		1,579		1,579	0		0		0	1,579
Nov	2024	0		1,579		1,579	0		0		0	1,579
Dec	2024	0		1,579		1,579	0		0		0	1,579
Jan	2025			1,579		1,579			0		0	1,579
Feb	2025			1,579		1,579			0		0	1,579
Mar	2025			1,579		1,579			0		0	1,579
Apr	2025			1,579		1,579			0		0	1,579
May	2025			1,579		1,579			0		0	1,579
June	2025			1,579		1,579			0		0	1,579
Jul	2025			1,579		1,579			0		0	1,579
Aug	2025			1,579		1,579			0		0	1,579
Sept	2025			1,579		1,579			0		0	1,579
Oct	2025			1,579		1,579			0		0	1,579
Nov	2025			1,579		1,579			0		0	1,579
Dec	2025			1,579		1,579			0		0	1,579
Jan	2026			1,579		1,579			0		0	1,579
Feb	2026			1,579		1,579			0		0	1,579
Mar	2026			1,579		1,579			0		0	1,579
Apr	2026			1,579		1,579			0		0	1,579
May	2026			1,579		1,579			0		0	1,579
June	2026			1,579		1,579			0		0	1,579
Jul	2026			1,579		1,579			0		0	1,579
Aug	2026			1,579		1,579			0		0	1,579
Sept	2026			1,579		1,579			0		0	1,579
Oct	2026			1,579		1,579			0		0	1,579
Nov	2026			1,579		1,579			0		0	1,579
Dec	2026			1,579		1,579			0		0	1,579
Jan	2027			1,579		1,579			0		0	1,579
Feb	2027			1,579		1,579			0		0	1,579
Mar	2027			1,579		1,579			0		0	1,579
Apr	2027			1,579		1,579			0		0	1,579
May	2027			1,579		1,579			0		0	1,579
June	2027			1,579		1,579			0		0	1,579
Jul	2027		0	1,579		1,579			0		0	1,579
Aug	2027		0	1,579		1,579			0		0	1,579
Sept	2027		-252	1,327		1,327			0		0	1,327
Oct	2027		-656	671		671			0		0	671
Nov	2027		-424	247		247			0		0	247
Dec	2027		-247	0		0			0		0	0
Jan	2028		0	0		0		0	0		0	0
Feb	2028		0	0		0		0	0		0	0
Mar	2028		0	0		0		0	0		0	0
Apr	2028		0	0		0		0	0		0	0
May	2028		0	0		0		0	0		0	0
June	2028		0	0		0		0	0		0	0
Jul	2028		0	0		0		0	0		0	0
Aug	2028		0	0		0		0	0		0	0
Sept	2028		0	0		0		0	0		0	0
Oct	2028		0	0		0		0	0		0	0
Nov	2028		0	0		0		0	0		0	0
Dec	2028		0	0		0		0	0		0	0

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
Jan	2024	0		104,626		104,626	0		0		0	104,626
Feb	2024	0		104,626		104,626	0		0		0	104,626
Mar	2024	0		104,626		104,626	0		0		0	104,626
Apr	2024	0		104,626		104,626	0		0		0	104,626
May	2024	0		104,626		104,626	0		0		0	104,626
June	2024	0		104,626		104,626	0		0		0	104,626
Jul	2024	0		104,626		104,626	0		0		0	104,626
Aug	2024	0		104,626		104,626	0		0		0	104,626
Sept	2024	0		104,626		104,626	0		0		0	104,626
Oct	2024	0		104,626		104,626	0		0		0	104,626
Nov	2024	0		104,626		104,626	0		0		0	104,626
Dec	2024	0		104,626		104,626	0		0		0	104,626
Jan	2025			104,626		104,626			0		0	104,626
Feb	2025			104,626		104,626			0		0	104,626
Mar	2025			104,626		104,626			0		0	104,626
Apr	2025			104,626		104,626			0		0	104,626
May	2025			104,626		104,626			0		0	104,626
June	2025			104,626		104,626			0		0	104,626
Jul	2025			104,626		104,626			0		0	104,626
Aug	2025			104,626		104,626			0		0	104,626
Sept	2025			104,626		104,626			0		0	104,626
Oct	2025			104,626		104,626			0		0	104,626
Nov	2025			104,626		104,626			0		0	104,626
Dec	2025			104,626		104,626			0		0	104,626
Jan	2026			104,626		104,626			0		0	104,626
Feb	2026			104,626		104,626			0		0	104,626
Mar	2026			104,626		104,626			0		0	104,626
Apr	2026			104,626		104,626			0		0	104,626
May	2026			104,626		104,626			0		0	104,626
June	2026			104,626		104,626			0		0	104,626
Jul	2026			104,626		104,626			0		0	104,626
Aug	2026			104,626		104,626			0		0	104,626
Sept	2026			104,626		104,626			0		0	104,626
Oct	2026			104,626		104,626			0		0	104,626
Nov	2026			104,626		104,626			0		0	104,626
Dec	2026			104,626		104,626			0		0	104,626
Jan	2027			104,626		104,626			0		0	104,626
Feb	2027			104,626		104,626			0		0	104,626
Mar	2027			104,626		104,626			0		0	104,626
Apr	2027			104,626		104,626			0		0	104,626
May	2027			104,626		104,626			0		0	104,626
June	2027			104,626		104,626			0		0	104,626
Jul	2027		0	104,626		104,626			0		0	104,626
Aug	2027		0	104,626		104,626			0		0	104,626
Sept	2027		-15,457	89,169		89,169			0		0	89,169
Oct	2027		-40,393	48,776		48,776			0		0	48,776
Nov	2027		-31,325	17,451		17,451			0		0	17,451
Dec	2027		-17,451	0		0			0		0	0
Jan	2028		0	0		0		0	0		0	0
Feb	2028		0	0		0		0	0		0	0
Mar	2028		0	0		0		0	0		0	0
Apr	2028		0	0		0		0	0		0	0
May	2028		0	0		0		0	0		0	0
June	2028		0	0		0		0	0		0	0
Jul	2028		0	0		0		0	0		0	0
Aug	2028		0	0		0		0	0		0	0
Sept	2028		0	0		0		0	0		0	0
Oct	2028		0	0		0		0	0		0	0
Nov	2028		0	0		0		0	0		0	0
Dec	2028		0	0		0		0	0		0	0

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
Jan	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Feb	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Mar	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Apr	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
May	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
June	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Jul	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Aug	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Sept	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Oct	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Nov	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Dec	2024	0		188		188	0		0		0	188	66	-	66	0.12	-	0.12
Jan	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Feb	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Mar	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Apr	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
May	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
June	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Jul	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Aug	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Sept	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Oct	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Nov	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Dec	2025			188		188			0		0	188	66	-	66	0.12	-	0.12
Jan	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Feb	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Mar	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Apr	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
May	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
June	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Jul	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Aug	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Sept	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Oct	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Nov	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Dec	2026			188		188			0		0	188	66	-	66	0.12	-	0.12
Jan	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
Feb	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
Mar	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
Apr	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
May	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
June	2027			188		188			0		0	188	66	-	66	0.12	-	0.12
Jul	2027		0	188		188			0		0	188	66	-	66	0.12	-	0.12
Aug	2027		0	188		188			0		0	188	66	-	66	0.12	-	0.12
Sept	2027		-28	160		160			0		0	160	67	-	67	0.12	-	0.12
Oct	2027		-73	88		88			0		0	88	73	-	73	0.13	-	0.13
Nov	2027		-56	31		31			0		0	31	71	-	71	0.13	-	0.13
Dec	2027		-31	0		0			0		0	0	-	-	-	-	-	-
Jan	2028		0	0		0			0		0	0	-	-	-	-	-	-
Feb	2028		0	0		0			0		0	0	-	-	-	-	-	-
Mar	2028		0	0		0			0		0	0	-	-	-	-	-	-
Apr	2028		0	0		0			0		0	0	-	-	-	-	-	-
May	2028		0	0		0			0		0	0	-	-	-	-	-	-
June	2028		0	0		0			0		0	0	-	-	-	-	-	-
Jul	2028		0	0		0			0		0	0	-	-	-	-	-	-
Aug	2028		0	0		0			0		0	0	-	-	-	-	-	-
Sept	2028		0	0		0			0		0	0	-	-	-	-	-	-
Oct	2028		0	0		0			0		0	0	-	-	-	-	-	-
Nov	2028		0	0		0			0		0	0	-	-	-	-	-	-
Dec	2028		0	0		0			0		0	0	-	-	-	-	-	-

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
Jan	2029		0	0		0		0	0		0	0
Feb	2029		0	0		0		0	0		0	0
Mar	2029		0	0		0		0	0		0	0
Apr	2029		0	0		0		0	0		0	0
May	2029		0	0		0		0	0		0	0
June	2029		0	0		0		0	0		0	0
Jul	2029		0	0		0		0	0		0	0
Aug	2029		0	0		0		0	0		0	0
Sept	2029		0	0		0		0	0		0	0
Oct	2029		0	0		0		0	0		0	0
Nov	2029		0	0		0		0	0		0	0
Dec	2029		0	0		0		0	0		0	0
Jan	2030		0	0		0		0	0		0	0
Feb	2030		0	0		0		0	0		0	0
Mar	2030		0	0		0		0	0		0	0
Apr	2030		0	0		0		0	0		0	0
May	2030		0	0		0		0	0		0	0
June	2030		0	0		0		0	0		0	0
Jul	2030		0	0		0		0	0		0	0
Aug	2030		0	0		0		0	0		0	0
Sept	2030		0	0		0		0	0		0	0
Oct	2030		0	0		0		0	0		0	0
Nov	2030		0	0		0		0	0		0	0
Dec	2030		0	0		0		0	0		0	0
Jan	2031		0	0		0		0	0		0	0
Feb	2031		0	0		0		0	0		0	0
Mar	2031		0	0		0		0	0		0	0
Apr	2031		0	0		0		0	0		0	0
May	2031		0	0		0		0	0		0	0
June	2031		0	0		0		0	0		0	0
Jul	2031		0	0		0		0	0		0	0
Aug	2031		0	0		0		0	0		0	0
Sept	2031		0	0		0		0	0		0	0
Oct	2031		0	0		0		0	0		0	0
Nov	2031		0	0		0		0	0		0	0
Dec	2031		0	0		0		0	0		0	0
Jan	2032		0	0		0		0	0		0	0
Feb	2032		0	0		0		0	0		0	0
Mar	2032		0	0		0		0	0		0	0
Apr	2032		0	0		0		0	0		0	0
May	2032		0	0		0		0	0		0	0
June	2032		0	0		0		0	0		0	0
Jul	2032		0	0		0		0	0		0	0
Aug	2032		0	0		0		0	0		0	0
Sept	2032		0	0		0		0	0		0	0
Oct	2032		0	0		0		0	0		0	0
Nov	2032		0	0		0		0	0		0	0
Dec	2032		0	0		0		0	0		0	0

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
Jan	2029		0	0		0		0	0		0	0
Feb	2029		0	0		0		0	0		0	0
Mar	2029		0	0		0		0	0		0	0
Apr	2029		0	0		0		0	0		0	0
May	2029		0	0		0		0	0		0	0
June	2029		0	0		0		0	0		0	0
Jul	2029		0	0		0		0	0		0	0
Aug	2029		0	0		0		0	0		0	0
Sept	2029		0	0		0		0	0		0	0
Oct	2029		0	0		0		0	0		0	0
Nov	2029		0	0		0		0	0		0	0
Dec	2029		0	0		0		0	0		0	0
Jan	2030		0	0		0		0	0		0	0
Feb	2030		0	0		0		0	0		0	0
Mar	2030		0	0		0		0	0		0	0
Apr	2030		0	0		0		0	0		0	0
May	2030		0	0		0		0	0		0	0
June	2030		0	0		0		0	0		0	0
Jul	2030		0	0		0		0	0		0	0
Aug	2030		0	0		0		0	0		0	0
Sept	2030		0	0		0		0	0		0	0
Oct	2030		0	0		0		0	0		0	0
Nov	2030		0	0		0		0	0		0	0
Dec	2030		0	0		0		0	0		0	0
Jan	2031		0	0		0		0	0		0	0
Feb	2031		0	0		0		0	0		0	0
Mar	2031		0	0		0		0	0		0	0
Apr	2031		0	0		0		0	0		0	0
May	2031		0	0		0		0	0		0	0
June	2031		0	0		0		0	0		0	0
Jul	2031		0	0		0		0	0		0	0
Aug	2031		0	0		0		0	0		0	0
Sept	2031		0	0		0		0	0		0	0
Oct	2031		0	0		0		0	0		0	0
Nov	2031		0	0		0		0	0		0	0
Dec	2031		0	0		0		0	0		0	0
Jan	2032		0	0		0		0	0		0	0
Feb	2032		0	0		0		0	0		0	0
Mar	2032		0	0		0		0	0		0	0
Apr	2032		0	0		0		0	0		0	0
May	2032		0	0		0		0	0		0	0
June	2032		0	0		0		0	0		0	0
Jul	2032		0	0		0		0	0		0	0
Aug	2032		0	0		0		0	0		0	0
Sept	2032		0	0		0		0	0		0	0
Oct	2032		0	0		0		0	0		0	0
Nov	2032		0	0		0		0	0		0	0
Dec	2032		0	0		0		0	0		0	0

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant					
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP					
		VA					NC					System			VA	NC	System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
Jan	2029		0	0		0				0			0		-	-	-	-	-	-
Feb	2029		0	0		0				0			0		-	-	-	-	-	-
Mar	2029		0	0		0				0			0		-	-	-	-	-	-
Apr	2029		0	0		0				0			0		-	-	-	-	-	-
May	2029		0	0		0				0			0		-	-	-	-	-	-
June	2029		0	0		0				0			0		-	-	-	-	-	-
Jul	2029		0	0		0				0			0		-	-	-	-	-	-
Aug	2029		0	0		0				0			0		-	-	-	-	-	-
Sept	2029		0	0		0				0			0		-	-	-	-	-	-
Oct	2029		0	0		0				0			0		-	-	-	-	-	-
Nov	2029		0	0		0				0			0		-	-	-	-	-	-
Dec	2029		0	0		0				0			0		-	-	-	-	-	-
Jan	2030		0	0		0				0			0		-	-	-	-	-	-
Feb	2030		0	0		0				0			0		-	-	-	-	-	-
Mar	2030		0	0		0				0			0		-	-	-	-	-	-
Apr	2030		0	0		0				0			0		-	-	-	-	-	-
May	2030		0	0		0				0			0		-	-	-	-	-	-
June	2030		0	0		0				0			0		-	-	-	-	-	-
Jul	2030		0	0		0				0			0		-	-	-	-	-	-
Aug	2030		0	0		0				0			0		-	-	-	-	-	-
Sept	2030		0	0		0				0			0		-	-	-	-	-	-
Oct	2030		0	0		0				0			0		-	-	-	-	-	-
Nov	2030		0	0		0				0			0		-	-	-	-	-	-
Dec	2030		0	0		0				0			0		-	-	-	-	-	-
Jan	2031		0	0		0				0			0		-	-	-	-	-	-
Feb	2031		0	0		0				0			0		-	-	-	-	-	-
Mar	2031		0	0		0				0			0		-	-	-	-	-	-
Apr	2031		0	0		0				0			0		-	-	-	-	-	-
May	2031		0	0		0				0			0		-	-	-	-	-	-
June	2031		0	0		0				0			0		-	-	-	-	-	-
Jul	2031		0	0		0				0			0		-	-	-	-	-	-
Aug	2031		0	0		0				0			0		-	-	-	-	-	-
Sept	2031		0	0		0				0			0		-	-	-	-	-	-
Oct	2031		0	0		0				0			0		-	-	-	-	-	-
Nov	2031		0	0		0				0			0		-	-	-	-	-	-
Dec	2031		0	0		0				0			0		-	-	-	-	-	-
Jan	2032		0	0		0				0			0		-	-	-	-	-	-
Feb	2032		0	0		0				0			0		-	-	-	-	-	-
Mar	2032		0	0		0				0			0		-	-	-	-	-	-
Apr	2032		0	0		0				0			0		-	-	-	-	-	-
May	2032		0	0		0				0			0		-	-	-	-	-	-
June	2032		0	0		0				0			0		-	-	-	-	-	-
Jul	2032		0	0		0				0			0		-	-	-	-	-	-
Aug	2032		0	0		0				0			0		-	-	-	-	-	-
Sept	2032		0	0		0				0			0		-	-	-	-	-	-
Oct	2032		0	0		0				0			0		-	-	-	-	-	-
Nov	2032		0	0		0				0			0		-	-	-	-	-	-
Dec	2032		0	0		0				0			0		-	-	-	-	-	-

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

**Table 2. EM&V Data Incremental by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			1,579		1,579			-		-	1,579

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			1,579		1,579			-		-	1,579

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants										
	VA							NC PPI			System
2019								-			
2020								-			
2021								-			
2022								-			
2023								-			
2024								-			
2025								-			



# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

**Table 2. EM&V Data Incremental by Vintage Year**

Gross Incremental Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			263,109		263,109			-		-	263,109

**Table 3. EM&V Data Annualized by Vintage Year**

Gross Annualized Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			1,255,513		1,255,513			-		-	1,255,513

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

Gross Energy (kWh) for PPI										
	VA							NC PPI		System
2019								-		
2020								-		
2021								-		
2022								-		
2023								-		
2024								-		
2025								-		

## Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2019			188		188			-		-	188	167	-	167	0.12	-	0.12

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2019			188		188			-		-	188	795	-	795	0.12	-	0.12

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
	VA							NC PPI			System	VA	NC	System	VA	NC	System
2019								-					-			-	
2020								-					-			-	
2021								-					-			-	
2022								-					-			-	
2023								-					-			-	
2024								-					-			-	
2025								-					-			-	

## Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											
	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			1,579		1,579			-		-	1,579
2020			1,579		1,579			-		-	1,579
2021			1,579		1,579			-		-	1,579
2022			1,579		1,579			-		-	1,579
2023			1,579		1,579			-		-	1,579
2024			1,579		1,579			-		-	1,579
2025			1,579		1,579			-		-	1,579
2026			1,579		1,579			-		-	1,579
2027			-		-			-		-	-
2028			-		-			-		-	-
2029			-		-			-		-	-
2030			-		-			-		-	-
2031			-		-			-		-	-
2032			-		-			-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											
	Program Participants										
			VA Lifetime					NC Lifetime			System Lifetime
2019			1,579					-			1,579
2020			1,579					-			1,579
2021			1,579					-			1,579
2022			1,579					-			1,579
2023			1,579					-			1,579
2024			1,579					-			1,579
2025			1,579					-			1,579
2026			1,579					-			1,579
2027			1,579					-			1,579
2028			1,579					-			1,579
2029			1,579					-			1,579
2030			1,579					-			1,579
2031			1,579					-			1,579
2032			1,579					-			1,579

## Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											
	Gross Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			104,626		104,626			-		-	104,626
2020			1,255,513		1,255,513			-		-	1,255,513
2021			1,255,513		1,255,513			-		-	1,255,513
2022			1,255,513		1,255,513			-		-	1,255,513
2023			1,255,513		1,255,513			-		-	1,255,513
2024			1,255,513		1,255,513			-		-	1,255,513
2025			1,255,513		1,255,513			-		-	1,255,513
2026			1,255,513		1,255,513			-		-	1,255,513
2027			992,404		992,404			-		-	992,404
2028			-		-			-		-	-
2029			-		-			-		-	-
2030			-		-			-		-	-
2031			-		-			-		-	-
2032			-		-			-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											
	Gross Energy (kWh)										
			VA Lifetime					NC Lifetime			System Lifetime
2019			104,626					-			104,626
2020			1,360,139					-			1,360,139
2021			2,615,652					-			2,615,652
2022			3,871,165					-			3,871,165
2023			5,126,678					-			5,126,678
2024			6,382,191					-			6,382,191
2025			7,637,704					-			7,637,704
2026			8,893,217					-			8,893,217
2027			9,885,621					-			9,885,621
2028			9,885,621					-			9,885,621
2029			9,885,621					-			9,885,621
2030			9,885,621					-			9,885,621
2031			9,885,621					-			9,885,621
2032			9,885,621					-			9,885,621

# Appendix C.3 Residential Appliance Recycling Program (DSM Phase VII) 2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2019			188		188			-		-	188	66	-	66	0.12	-	0.12
2020			188		188			-		-	188	795	-	795	0.12	-	0.12
2021			188		188			-		-	188	795	-	795	0.12	-	0.12
2022			188		188			-		-	188	795	-	795	0.12	-	0.12
2023			188		188			-		-	188	795	-	795	0.12	-	0.12
2024			188		188			-		-	188	795	-	795	0.12	-	0.12
2025			188		188			-		-	188	795	-	795	0.12	-	0.12
2026			188		188			-		-	188	795	-	795	0.12	-	0.12
2027			-		-			-		-	-	-	-	-	-	-	-
2028			-		-			-		-	-	-	-	-	-	-	-
2029			-		-			-		-	-	-	-	-	-	-	-
2030			-		-			-		-	-	-	-	-	-	-	-
2031			-		-			-		-	-	-	-	-	-	-	-
2032			-		-			-		-	-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant			
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
			VA Lifetime					NC Lifetime			System Lifetime	VA	NC	System	VA	NC	System
2019			188					-		-	188	66	-	66	0.12	-	0.12
2020			188					-		-	188	861	-	861	0.12	-	0.12
2021			188					-		-	188	1,657	-	1,657	0.12	-	0.12
2022			188					-		-	188	2,452	-	2,452	0.12	-	0.12
2023			188					-		-	188	3,247	-	3,247	0.12	-	0.12
2024			188					-		-	188	4,042	-	4,042	0.12	-	0.12
2025			188					-		-	188	4,837	-	4,837	0.12	-	0.12
2026			188					-		-	188	5,632	-	5,632	0.12	-	0.12
2027			188					-		-	188	6,261	-	6,261	0.12	-	0.12
2028			188					-		-	188	6,261	-	6,261	0.12	-	0.12
2029			188					-		-	188	6,261	-	6,261	0.12	-	0.12
2030			188					-		-	188	6,261	-	6,261	0.12	-	0.12
2031			188					-		-	188	6,261	-	6,261	0.12	-	0.12
2032			188					-		-	188	6,261	-	6,261	0.12	-	0.12

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

**PROGRAM: Residential Efficient Products Marketplace**  
**DSM Phase VII Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 16.5 years (16 years, 6 months)**  
**Current Year: 2019**

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP	
		VA					NC						System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[B]	[F] = Σ[A] + Σ[-A retired] + B	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	[D]	[H] = Σ[C] + Σ[-C retired] + D	E+G			
January	2019	0		0		0	0	0	0	0	0	0	0
February	2019	0		0		0	0	0	0	0	0	0	0
March	2019	0		0		0	0	0	0	0	0	0	0
April	2019	0		0		0	0	0	0	0	0	0	0
May	2019	0		0		0	0	0	0	0	0	0	0
June	2019	0		0		0	0	0	0	0	0	0	0
July	2019	0		0		0	0	0	0	0	0	0	0
August	2019	145,184		145,184		145,184	0	0	0	0	0	145,184	145,184
September	2019	484,071		629,255		629,255	0	0	0	0	0	629,255	629,255
October	2019	593,243		1,222,498		1,222,498	0	0	0	0	0	1,222,498	1,222,498
November	2019	640,871		1,863,369		1,863,369	0	0	0	0	0	1,863,369	1,863,369
December	2019	643,896		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
January	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
February	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
March	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
April	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
May	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
June	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
July	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
August	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
September	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
October	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
November	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
December	2020	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
January	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
February	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
March	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
April	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
May	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
June	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
July	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
August	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
September	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
October	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
November	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
December	2021	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
January	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
February	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
March	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
April	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
May	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
June	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
July	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
August	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
September	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
October	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
November	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
December	2022	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
January	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
February	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
March	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
April	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
May	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
June	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
July	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
August	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
September	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
October	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
November	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265
December	2023	0		2,507,265		2,507,265	0	0	0	0	0	2,507,265	2,507,265

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Energy Savings															
Month	Year	Gross kWh					VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP					
January	2019	0		0		0	0		0		0	0		0	0		
February	2019	0		0		0	0		0		0	0		0	0		
March	2019	0		0		0	0		0		0	0		0	0		
April	2019	0		0		0	0		0		0	0		0	0		
May	2019	0		0		0	0		0		0	0		0	0		
June	2019	0		0		0	0		0		0	0		0	0		
July	2019	0		0		0	0		0		0	0		0	0		
August	2019	366,886		366,886		366,886	0		0		0	0		0	366,886		
September	2019	1,215,976		1,582,862		1,582,862	0		0		0	0		0	1,582,862		
October	2019	1,402,516		2,985,378		2,985,378	0		0		0	0		0	2,985,378		
November	2019	1,543,264		4,528,642		4,528,642	0		0		0	0		0	4,528,642		
December	2019	1,555,321		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
January	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
February	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
March	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
April	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
May	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
June	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
July	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
August	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
September	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
October	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
November	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
December	2020	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
January	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
February	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
March	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
April	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
May	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
June	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
July	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
August	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
September	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
October	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
November	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
December	2021	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
January	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
February	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
March	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
April	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
May	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
June	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
July	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
August	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
September	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
October	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
November	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
December	2022	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
January	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
February	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
March	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
April	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
May	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
June	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
July	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
August	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
September	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
October	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
November	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		
December	2023	0		6,083,963		6,083,963	0		0		0	0		0	6,083,963		

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW					System					Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
February	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
March	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
April	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
May	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
June	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
July	2019	0		0		0	0		0		0	0	-	-	-	-	-	-
August	2019	282		282		282	0		0		0	282	3	-	-	3	0.00	0.00
September	2019	934		1,216		1,216	0		0		0	1,216	3	-	-	3	0.00	0.00
October	2019	1,078		2,294		2,294	0		0		0	2,294	2	-	-	2	0.00	0.00
November	2019	1,186		3,480		3,480	0		0		0	3,480	2	-	-	2	0.00	0.00
December	2019	1,195		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
January	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
February	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
March	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
April	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
May	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
June	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
July	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
August	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
September	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
October	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
November	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
December	2020	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
January	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
February	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
March	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
April	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
May	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
June	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
July	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
August	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
September	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
October	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
November	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
December	2021	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
January	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
February	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
March	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
April	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
May	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
June	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
July	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
August	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
September	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
October	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
November	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
December	2022	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
January	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
February	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
March	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
April	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
May	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
June	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
July	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
August	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
September	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
October	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
November	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00
December	2023	0		4,675		4,675	0		0		0	4,675	2	-	-	2	0.00	0.00



# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Participation											
Month	Year	Program Participants										System	
		VA					NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP
January	2024			2,507,265		2,507,265				0		0	2,507,265
February	2024			2,507,265		2,507,265				0		0	2,507,265
March	2024			2,507,265		2,507,265				0		0	2,507,265
April	2024			2,507,265		2,507,265				0		0	2,507,265
May	2024			2,507,265		2,507,265				0		0	2,507,265
June	2024			2,507,265		2,507,265				0		0	2,507,265
July	2024			2,507,265		2,507,265				0		0	2,507,265
August	2024			2,507,265		2,507,265				0		0	2,507,265
September	2024			2,507,265		2,507,265				0		0	2,507,265
October	2024			2,507,265		2,507,265				0		0	2,507,265
November	2024			2,507,265		2,507,265				0		0	2,507,265
December	2024			2,507,265		2,507,265				0		0	2,507,265
January	2025			2,507,265		2,507,265				0		0	2,507,265
February	2025			2,507,265		2,507,265				0		0	2,507,265
March	2025			2,507,265		2,507,265				0		0	2,507,265
April	2025			2,507,265		2,507,265				0		0	2,507,265
May	2025			2,507,265		2,507,265				0		0	2,507,265
June	2025			2,507,265		2,507,265				0		0	2,507,265
July	2025			2,507,265		2,507,265				0		0	2,507,265
August	2025			2,507,265		2,507,265				0		0	2,507,265
September	2025			2,507,265		2,507,265				0		0	2,507,265
October	2025			2,507,265		2,507,265				0		0	2,507,265
November	2025			2,507,265		2,507,265				0		0	2,507,265
December	2025			2,507,265		2,507,265				0		0	2,507,265
January	2026			2,507,265		2,507,265				0		0	2,507,265
February	2026			2,507,265		2,507,265				0		0	2,507,265
March	2026			2,507,265		2,507,265				0		0	2,507,265
April	2026			2,507,265		2,507,265				0		0	2,507,265
May	2026			2,507,265		2,507,265				0		0	2,507,265
June	2026			2,507,265		2,507,265				0		0	2,507,265
July	2026			2,507,265		2,507,265				0		0	2,507,265
August	2026			2,507,265		2,507,265				0		0	2,507,265
September	2026			2,507,265		2,507,265				0		0	2,507,265
October	2026			2,507,265		2,507,265				0		0	2,507,265
November	2026			2,507,265		2,507,265				0		0	2,507,265
December	2026			2,507,265		2,507,265				0		0	2,507,265
January	2027			2,507,265		2,507,265				0		0	2,507,265
February	2027			2,507,265		2,507,265				0		0	2,507,265
March	2027			2,507,265		2,507,265				0		0	2,507,265
April	2027			2,507,265		2,507,265				0		0	2,507,265
May	2027			2,507,265		2,507,265				0		0	2,507,265
June	2027			2,507,265		2,507,265				0		0	2,507,265
July	2027			2,507,265		2,507,265				0		0	2,507,265
August	2027			2,507,265		2,507,265				0		0	2,507,265
September	2027			2,507,265		2,507,265				0		0	2,507,265
October	2027			2,507,265		2,507,265				0		0	2,507,265
November	2027			2,507,265		2,507,265				0		0	2,507,265
December	2027			2,507,265		2,507,265				0		0	2,507,265
January	2028			2,507,265		2,507,265				0		0	2,507,265
February	2028			2,507,265		2,507,265				0		0	2,507,265
March	2028			2,507,265		2,507,265				0		0	2,507,265
April	2028			2,507,265		2,507,265				0		0	2,507,265
May	2028			2,507,265		2,507,265				0		0	2,507,265
June	2028			2,507,265		2,507,265				0		0	2,507,265
July	2028			2,507,265		2,507,265				0		0	2,507,265
August	2028			2,507,265		2,507,265				0		0	2,507,265
September	2028			2,507,265		2,507,265				0		0	2,507,265
October	2028			2,507,265		2,507,265				0		0	2,507,265
November	2028			2,507,265		2,507,265				0		0	2,507,265
December	2028			2,507,265		2,507,265				0		0	2,507,265

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Energy Savings												
Month	Year	Gross kWh												
		VA					NC					System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		
January	2024			6,083,963		6,083,963					0		0	6,083,963
February	2024			6,083,963		6,083,963					0		0	6,083,963
March	2024			6,083,963		6,083,963					0		0	6,083,963
April	2024			6,083,963		6,083,963					0		0	6,083,963
May	2024			6,083,963		6,083,963					0		0	6,083,963
June	2024			6,083,963		6,083,963					0		0	6,083,963
July	2024			6,083,963		6,083,963					0		0	6,083,963
August	2024			6,083,963		6,083,963					0		0	6,083,963
September	2024			6,083,963		6,083,963					0		0	6,083,963
October	2024			6,083,963		6,083,963					0		0	6,083,963
November	2024			6,083,963		6,083,963					0		0	6,083,963
December	2024			6,083,963		6,083,963					0		0	6,083,963
January	2025			6,083,963		6,083,963					0		0	6,083,963
February	2025			6,083,963		6,083,963					0		0	6,083,963
March	2025			6,083,963		6,083,963					0		0	6,083,963
April	2025			6,083,963		6,083,963					0		0	6,083,963
May	2025			6,083,963		6,083,963					0		0	6,083,963
June	2025			6,083,963		6,083,963					0		0	6,083,963
July	2025			6,083,963		6,083,963					0		0	6,083,963
August	2025			6,083,963		6,083,963					0		0	6,083,963
September	2025			6,083,963		6,083,963					0		0	6,083,963
October	2025			6,083,963		6,083,963					0		0	6,083,963
November	2025			6,083,963		6,083,963					0		0	6,083,963
December	2025			6,083,963		6,083,963					0		0	6,083,963
January	2026			6,083,963		6,083,963					0		0	6,083,963
February	2026			6,083,963		6,083,963					0		0	6,083,963
March	2026			6,083,963		6,083,963					0		0	6,083,963
April	2026			6,083,963		6,083,963					0		0	6,083,963
May	2026			6,083,963		6,083,963					0		0	6,083,963
June	2026			6,083,963		6,083,963					0		0	6,083,963
July	2026			6,083,963		6,083,963					0		0	6,083,963
August	2026			6,083,963		6,083,963					0		0	6,083,963
September	2026			6,083,963		6,083,963					0		0	6,083,963
October	2026			6,083,963		6,083,963					0		0	6,083,963
November	2026			6,083,963		6,083,963					0		0	6,083,963
December	2026			6,083,963		6,083,963					0		0	6,083,963
January	2027			6,083,963		6,083,963					0		0	6,083,963
February	2027			6,083,963		6,083,963					0		0	6,083,963
March	2027			6,083,963		6,083,963					0		0	6,083,963
April	2027			6,083,963		6,083,963					0		0	6,083,963
May	2027			6,083,963		6,083,963					0		0	6,083,963
June	2027			6,083,963		6,083,963					0		0	6,083,963
July	2027			6,083,963		6,083,963					0		0	6,083,963
August	2027			6,083,963		6,083,963					0		0	6,083,963
September	2027			6,083,963		6,083,963					0		0	6,083,963
October	2027			6,083,963		6,083,963					0		0	6,083,963
November	2027			6,083,963		6,083,963					0		0	6,083,963
December	2027			6,083,963		6,083,963					0		0	6,083,963
January	2028			6,083,963		6,083,963					0		0	6,083,963
February	2028			6,083,963		6,083,963					0		0	6,083,963
March	2028			6,083,963		6,083,963					0		0	6,083,963
April	2028			6,083,963		6,083,963					0		0	6,083,963
May	2028			6,083,963		6,083,963					0		0	6,083,963
June	2028			6,083,963		6,083,963					0		0	6,083,963
July	2028			6,083,963		6,083,963					0		0	6,083,963
August	2028			6,083,963		6,083,963					0		0	6,083,963
September	2028			6,083,963		6,083,963					0		0	6,083,963
October	2028			6,083,963		6,083,963					0		0	6,083,963
November	2028			6,083,963		6,083,963					0		0	6,083,963
December	2028			6,083,963		6,083,963					0		0	6,083,963

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP	VA	NC	System	VA	NC
January	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2024			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2025			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2026			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2027			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2028			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Participation											
Month	Year	Program Participants										System	
		VA					NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP
January	2029			2,507,265		2,507,265				0		0	2,507,265
February	2029			2,507,265		2,507,265				0		0	2,507,265
March	2029			2,507,265		2,507,265				0		0	2,507,265
April	2029			2,507,265		2,507,265				0		0	2,507,265
May	2029			2,507,265		2,507,265				0		0	2,507,265
June	2029			2,507,265		2,507,265				0		0	2,507,265
July	2029			2,507,265		2,507,265				0		0	2,507,265
August	2029			2,507,265		2,507,265				0		0	2,507,265
September	2029			2,507,265		2,507,265				0		0	2,507,265
October	2029			2,507,265		2,507,265				0		0	2,507,265
November	2029			2,507,265		2,507,265				0		0	2,507,265
December	2029			2,507,265		2,507,265				0		0	2,507,265
January	2030			2,507,265		2,507,265				0		0	2,507,265
February	2030			2,507,265		2,507,265				0		0	2,507,265
March	2030			2,507,265		2,507,265				0		0	2,507,265
April	2030			2,507,265		2,507,265				0		0	2,507,265
May	2030			2,507,265		2,507,265				0		0	2,507,265
June	2030			2,507,265		2,507,265				0		0	2,507,265
July	2030			2,507,265		2,507,265				0		0	2,507,265
August	2030			2,507,265		2,507,265				0		0	2,507,265
September	2030			2,507,265		2,507,265				0		0	2,507,265
October	2030			2,507,265		2,507,265				0		0	2,507,265
November	2030			2,507,265		2,507,265				0		0	2,507,265
December	2030			2,507,265		2,507,265				0		0	2,507,265
January	2031			2,507,265		2,507,265				0		0	2,507,265
February	2031			2,507,265		2,507,265				0		0	2,507,265
March	2031			2,507,265		2,507,265				0		0	2,507,265
April	2031			2,507,265		2,507,265				0		0	2,507,265
May	2031			2,507,265		2,507,265				0		0	2,507,265
June	2031			2,507,265		2,507,265				0		0	2,507,265
July	2031			2,507,265		2,507,265				0		0	2,507,265
August	2031			2,507,265		2,507,265				0		0	2,507,265
September	2031			2,507,265		2,507,265				0		0	2,507,265
October	2031			2,507,265		2,507,265				0		0	2,507,265
November	2031			2,507,265		2,507,265				0		0	2,507,265
December	2031			2,507,265		2,507,265				0		0	2,507,265
January	2032			2,507,265		2,507,265				0		0	2,507,265
February	2032			2,507,265		2,507,265				0		0	2,507,265
March	2032			2,507,265		2,507,265				0		0	2,507,265
April	2032			2,507,265		2,507,265				0		0	2,507,265
May	2032			2,507,265		2,507,265				0		0	2,507,265
June	2032			2,507,265		2,507,265				0		0	2,507,265
July	2032			2,507,265		2,507,265				0		0	2,507,265
August	2032			2,507,265		2,507,265				0		0	2,507,265
September	2032			2,507,265		2,507,265				0		0	2,507,265
October	2032			2,507,265		2,507,265				0		0	2,507,265
November	2032			2,507,265		2,507,265				0		0	2,507,265
December	2032			2,507,265		2,507,265				0		0	2,507,265
January	2033			2,507,265		2,507,265				0		0	2,507,265
February	2033			2,507,265		2,507,265				0		0	2,507,265
March	2033			2,507,265		2,507,265				0		0	2,507,265
April	2033			2,507,265		2,507,265				0		0	2,507,265
May	2033			2,507,265		2,507,265				0		0	2,507,265
June	2033			2,507,265		2,507,265				0		0	2,507,265
July	2033			2,507,265		2,507,265				0		0	2,507,265
August	2033			2,507,265		2,507,265				0		0	2,507,265
September	2033			2,507,265		2,507,265				0		0	2,507,265
October	2033			2,507,265		2,507,265				0		0	2,507,265
November	2033			2,507,265		2,507,265				0		0	2,507,265
December	2033			2,507,265		2,507,265				0		0	2,507,265

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Energy Savings												
Month	Year	Gross kWh												
		VA				NC				System				
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		
January	2029			6,083,963		6,083,963					0		0	6,083,963
February	2029			6,083,963		6,083,963					0		0	6,083,963
March	2029			6,083,963		6,083,963					0		0	6,083,963
April	2029			6,083,963		6,083,963					0		0	6,083,963
May	2029			6,083,963		6,083,963					0		0	6,083,963
June	2029			6,083,963		6,083,963					0		0	6,083,963
July	2029			6,083,963		6,083,963					0		0	6,083,963
August	2029			6,083,963		6,083,963					0		0	6,083,963
September	2029			6,083,963		6,083,963					0		0	6,083,963
October	2029			6,083,963		6,083,963					0		0	6,083,963
November	2029			6,083,963		6,083,963					0		0	6,083,963
December	2029			6,083,963		6,083,963					0		0	6,083,963
January	2030			6,083,963		6,083,963					0		0	6,083,963
February	2030			6,083,963		6,083,963					0		0	6,083,963
March	2030			6,083,963		6,083,963					0		0	6,083,963
April	2030			6,083,963		6,083,963					0		0	6,083,963
May	2030			6,083,963		6,083,963					0		0	6,083,963
June	2030			6,083,963		6,083,963					0		0	6,083,963
July	2030			6,083,963		6,083,963					0		0	6,083,963
August	2030			6,083,963		6,083,963					0		0	6,083,963
September	2030			6,083,963		6,083,963					0		0	6,083,963
October	2030			6,083,963		6,083,963					0		0	6,083,963
November	2030			6,083,963		6,083,963					0		0	6,083,963
December	2030			6,083,963		6,083,963					0		0	6,083,963
January	2031			6,083,963		6,083,963					0		0	6,083,963
February	2031			6,083,963		6,083,963					0		0	6,083,963
March	2031			6,083,963		6,083,963					0		0	6,083,963
April	2031			6,083,963		6,083,963					0		0	6,083,963
May	2031			6,083,963		6,083,963					0		0	6,083,963
June	2031			6,083,963		6,083,963					0		0	6,083,963
July	2031			6,083,963		6,083,963					0		0	6,083,963
August	2031			6,083,963		6,083,963					0		0	6,083,963
September	2031			6,083,963		6,083,963					0		0	6,083,963
October	2031			6,083,963		6,083,963					0		0	6,083,963
November	2031			6,083,963		6,083,963					0		0	6,083,963
December	2031			6,083,963		6,083,963					0		0	6,083,963
January	2032			6,083,963		6,083,963					0		0	6,083,963
February	2032			6,083,963		6,083,963					0		0	6,083,963
March	2032			6,083,963		6,083,963					0		0	6,083,963
April	2032			6,083,963		6,083,963					0		0	6,083,963
May	2032			6,083,963		6,083,963					0		0	6,083,963
June	2032			6,083,963		6,083,963					0		0	6,083,963
July	2032			6,083,963		6,083,963					0		0	6,083,963
August	2032			6,083,963		6,083,963					0		0	6,083,963
September	2032			6,083,963		6,083,963					0		0	6,083,963
October	2032			6,083,963		6,083,963					0		0	6,083,963
November	2032			6,083,963		6,083,963					0		0	6,083,963
December	2032			6,083,963		6,083,963					0		0	6,083,963
January	2033			6,083,963		6,083,963					0		0	6,083,963
February	2033			6,083,963		6,083,963					0		0	6,083,963
March	2033			6,083,963		6,083,963					0		0	6,083,963
April	2033			6,083,963		6,083,963					0		0	6,083,963
May	2033			6,083,963		6,083,963					0		0	6,083,963
June	2033			6,083,963		6,083,963					0		0	6,083,963
July	2033			6,083,963		6,083,963					0		0	6,083,963
August	2033			6,083,963		6,083,963					0		0	6,083,963
September	2033			6,083,963		6,083,963					0		0	6,083,963
October	2033			6,083,963		6,083,963					0		0	6,083,963
November	2033			6,083,963		6,083,963					0		0	6,083,963
December	2033			6,083,963		6,083,963					0		0	6,083,963

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
February	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
March	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
April	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
May	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
June	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
July	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
August	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
September	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
October	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
November	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
December	2029			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
January	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
February	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
March	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
April	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
May	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
June	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
July	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
August	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
September	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
October	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
November	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
December	2030			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
January	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
February	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
March	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
April	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
May	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
June	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
July	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
August	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
September	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
October	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
November	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
December	2031			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
January	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
February	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
March	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
April	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
May	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
June	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
July	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
August	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
September	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
October	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
November	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
December	2032			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
January	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
February	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
March	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
April	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
May	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
June	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
July	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
August	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
September	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
October	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
November	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	
December	2033			4,675		4,675			0	0	4,675	2	-	2	0.00	-	0.00	

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2034			2,507,265		2,507,265			0		0	2,507,265
February	2034			2,507,265		2,507,265			0		0	2,507,265
March	2034			2,507,265		2,507,265			0		0	2,507,265
April	2034			2,507,265		2,507,265			0		0	2,507,265
May	2034			2,507,265		2,507,265			0		0	2,507,265
June	2034			2,507,265		2,507,265			0		0	2,507,265
July	2034			2,507,265		2,507,265			0		0	2,507,265
August	2034			2,507,265		2,507,265			0		0	2,507,265
September	2034			2,507,265		2,507,265			0		0	2,507,265
October	2034			2,507,265		2,507,265			0		0	2,507,265
November	2034			2,507,265		2,507,265			0		0	2,507,265
December	2034			2,507,265		2,507,265			0		0	2,507,265
January	2035			2,507,265		2,507,265			0		0	2,507,265
February	2035			2,507,265		2,507,265			0		0	2,507,265
March	2035			2,507,265		2,507,265			0		0	2,507,265
April	2035			2,507,265		2,507,265			0		0	2,507,265
May	2035			2,507,265		2,507,265			0		0	2,507,265
June	2035			2,507,265		2,507,265			0		0	2,507,265
July	2035			2,507,265		2,507,265			0		0	2,507,265
August	2035			2,507,265		2,507,265			0		0	2,507,265
September	2035			2,507,265		2,507,265			0		0	2,507,265
October	2035			2,507,265		2,507,265			0		0	2,507,265
November	2035			2,507,265		2,507,265			0		0	2,507,265
December	2035			2,507,265		2,507,265			0		0	2,507,265
January	2036		-145,184	2,362,080		2,362,080			0		0	2,362,080
February	2036		-484,071	1,878,010		1,878,010			0		0	1,878,010
March	2036		-593,243	1,284,767		1,284,767			0		0	1,284,767
April	2036		-640,871	643,896		643,896			0		0	643,896
May	2036		-643,896	0		0			0		0	0
June	2036		0	0		0		0	0		0	0
July	2036		0	0		0		0	0		0	0
August	2036		0	0		0		0	0		0	0
September	2036		0	0		0		0	0		0	0
October	2036		0	0		0		0	0		0	0
November	2036		0	0		0		0	0		0	0
December	2036		0	0		0		0	0		0	0
January	2037		0	0		0		0	0		0	0
February	2037		0	0		0		0	0		0	0
March	2037		0	0		0		0	0		0	0
April	2037		0	0		0		0	0		0	0
May	2037		0	0		0		0	0		0	0
June	2037		0	0		0		0	0		0	0
July	2037		0	0		0		0	0		0	0
August	2037		0	0		0		0	0		0	0
September	2037		0	0		0		0	0		0	0
October	2037		0	0		0		0	0		0	0
November	2037		0	0		0		0	0		0	0
December	2037		0	0		0		0	0		0	0
January	2038		0	0		0		0	0		0	0
February	2038		0	0		0		0	0		0	0
March	2038		0	0		0		0	0		0	0
April	2038		0	0		0		0	0		0	0
May	2038		0	0		0		0	0		0	0
June	2038		0	0		0		0	0		0	0
July	2038		0	0		0		0	0		0	0
August	2038		0	0		0		0	0		0	0
September	2038		0	0		0		0	0		0	0
October	2038		0	0		0		0	0		0	0
November	2038		0	0		0		0	0		0	0
December	2038		0	0		0		0	0		0	0

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Energy Savings												
Month	Year	Gross kWh												
		VA					NC					System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		
January	2034			6,083,963		6,083,963					0		0	6,083,963
February	2034			6,083,963		6,083,963					0		0	6,083,963
March	2034			6,083,963		6,083,963					0		0	6,083,963
April	2034			6,083,963		6,083,963					0		0	6,083,963
May	2034			6,083,963		6,083,963					0		0	6,083,963
June	2034			6,083,963		6,083,963					0		0	6,083,963
July	2034			6,083,963		6,083,963					0		0	6,083,963
August	2034			6,083,963		6,083,963					0		0	6,083,963
September	2034			6,083,963		6,083,963					0		0	6,083,963
October	2034			6,083,963		6,083,963					0		0	6,083,963
November	2034			6,083,963		6,083,963					0		0	6,083,963
December	2034			6,083,963		6,083,963					0		0	6,083,963
January	2035			6,083,963		6,083,963					0		0	6,083,963
February	2035			6,083,963		6,083,963					0		0	6,083,963
March	2035			6,083,963		6,083,963					0		0	6,083,963
April	2035			6,083,963		6,083,963					0		0	6,083,963
May	2035			6,083,963		6,083,963					0		0	6,083,963
June	2035			6,083,963		6,083,963					0		0	6,083,963
July	2035			6,083,963		6,083,963					0		0	6,083,963
August	2035			6,083,963		6,083,963					0		0	6,083,963
September	2035			6,083,963		6,083,963					0		0	6,083,963
October	2035			6,083,963		6,083,963					0		0	6,083,963
November	2035			6,083,963		6,083,963					0		0	6,083,963
December	2035			6,083,963		6,083,963					0		0	6,083,963
January	2036		-366,886	5,717,078		5,717,078					0		0	5,717,078
February	2036		-1,215,976	4,501,102		4,501,102					0		0	4,501,102
March	2036		-1,402,516	3,098,586		3,098,586					0		0	3,098,586
April	2036		-1,543,264	1,555,321		1,555,321					0		0	1,555,321
May	2036		-1,555,321	0		0					0		0	0
June	2036		0	0		0		0			0		0	0
July	2036		0	0		0		0			0		0	0
August	2036		0	0		0		0			0		0	0
September	2036		0	0		0		0			0		0	0
October	2036		0	0		0		0			0		0	0
November	2036		0	0		0		0			0		0	0
December	2036		0	0		0		0			0		0	0
January	2037		0	0		0		0			0		0	0
February	2037		0	0		0		0			0		0	0
March	2037		0	0		0		0			0		0	0
April	2037		0	0		0		0			0		0	0
May	2037		0	0		0		0			0		0	0
June	2037		0	0		0		0			0		0	0
July	2037		0	0		0		0			0		0	0
August	2037		0	0		0		0			0		0	0
September	2037		0	0		0		0			0		0	0
October	2037		0	0		0		0			0		0	0
November	2037		0	0		0		0			0		0	0
December	2037		0	0		0		0			0		0	0
January	2038		0	0		0		0			0		0	0
February	2038		0	0		0		0			0		0	0
March	2038		0	0		0		0			0		0	0
April	2038		0	0		0		0			0		0	0
May	2038		0	0		0		0			0		0	0
June	2038		0	0		0		0			0		0	0
July	2038		0	0		0		0			0		0	0
August	2038		0	0		0		0			0		0	0
September	2038		0	0		0		0			0		0	0
October	2038		0	0		0		0			0		0	0
November	2038		0	0		0		0			0		0	0
December	2038		0	0		0		0			0		0	0



# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW					NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP	VA	NC	System	VA	NC
January	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2034			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
February	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
March	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
April	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
May	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
June	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
July	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
August	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
September	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
October	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
November	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
December	2035			4,675		4,675			0		0	4,675	2	-	2	0.00	-	0.00
January	2036		-282	4,393		4,393			0		0	4,393	2	-	2	0.00	-	0.00
February	2036		-934	3,459		3,459			0		0	3,459	2	-	2	0.00	-	0.00
March	2036		-1,078	2,381		2,381			0		0	2,381	2	-	2	0.00	-	0.00
April	2036		-1,186	1,195		1,195			0		0	1,195	2	-	2	0.00	-	0.00
May	2036		-1,195	0		0			0		0	0	-	-	-	-	-	-
June	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
July	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
August	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
September	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
October	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
November	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
December	2036		0	0		0		0	0		0	0	-	-	-	-	-	-
January	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
February	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
March	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
April	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
May	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
June	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
July	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
August	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
September	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
October	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
November	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
December	2037		0	0		0		0	0		0	0	-	-	-	-	-	-
January	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
February	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
March	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
April	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
May	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
June	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
July	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
August	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
September	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
October	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
November	2038		0	0		0		0	0		0	0	-	-	-	-	-	-
December	2038		0	0		0		0	0		0	0	-	-	-	-	-	-

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2039		0	0		0		0	0	0	0	0
February	2039		0	0		0		0	0	0	0	0
March	2039		0	0		0		0	0	0	0	0
April	2039		0	0		0		0	0	0	0	0
May	2039		0	0		0		0	0	0	0	0
June	2039		0	0		0		0	0	0	0	0
July	2039		0	0		0		0	0	0	0	0
August	2039		0	0		0		0	0	0	0	0
September	2039		0	0		0		0	0	0	0	0
October	2039		0	0		0		0	0	0	0	0
November	2039		0	0		0		0	0	0	0	0
December	2039		0	0		0		0	0	0	0	0
January	2040			0		0		0	0	0	0	0
February	2040			0		0		0	0	0	0	0
March	2040			0		0		0	0	0	0	0
April	2040			0		0		0	0	0	0	0
May	2040			0		0		0	0	0	0	0
June	2040			0		0		0	0	0	0	0
July	2040			0		0		0	0	0	0	0
August	2040			0		0		0	0	0	0	0
September	2040			0		0		0	0	0	0	0
October	2040			0		0		0	0	0	0	0
November	2040			0		0		0	0	0	0	0
December	2040			0		0		0	0	0	0	0

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2039		0	0		0		0	0		0	0
February	2039		0	0		0		0	0		0	0
March	2039		0	0		0		0	0		0	0
April	2039		0	0		0		0	0		0	0
May	2039		0	0		0		0	0		0	0
June	2039		0	0		0		0	0		0	0
July	2039		0	0		0		0	0		0	0
August	2039		0	0		0		0	0		0	0
September	2039		0	0		0		0	0		0	0
October	2039		0	0		0		0	0		0	0
November	2039		0	0		0		0	0		0	0
December	2039		0	0		0		0	0		0	0
January	2040			0		0		0	0		0	0
February	2040			0		0		0	0		0	0
March	2040			0		0		0	0		0	0
April	2040			0		0		0	0		0	0
May	2040			0		0		0	0		0	0
June	2040			0		0		0	0		0	0
July	2040			0		0		0	0		0	0
August	2040			0		0		0	0		0	0
September	2040			0		0		0	0		0	0
October	2040			0		0		0	0		0	0
November	2040			0		0		0	0		0	0
December	2040			0		0		0	0		0	0

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2039		0	0				0		0		0	-	-	-	-	-	-
February	2039		0	0				0		0		0	-	-	-	-	-	-
March	2039		0	0				0		0		0	-	-	-	-	-	-
April	2039		0	0				0		0		0	-	-	-	-	-	-
May	2039		0	0				0		0		0	-	-	-	-	-	-
June	2039		0	0				0		0		0	-	-	-	-	-	-
July	2039		0	0				0		0		0	-	-	-	-	-	-
August	2039		0	0				0		0		0	-	-	-	-	-	-
September	2039		0	0				0		0		0	-	-	-	-	-	-
October	2039		0	0				0		0		0	-	-	-	-	-	-
November	2039		0	0				0		0		0	-	-	-	-	-	-
December	2039		0	0				0		0		0	-	-	-	-	-	-
January	2040			0				0		0		0	-	-	-	-	-	-
February	2040			0				0		0		0	-	-	-	-	-	-
March	2040			0				0		0		0	-	-	-	-	-	-
April	2040			0				0		0		0	-	-	-	-	-	-
May	2040			0				0		0		0	-	-	-	-	-	-
June	2040			0				0		0		0	-	-	-	-	-	-
July	2040			0				0		0		0	-	-	-	-	-	-
August	2040			0				0		0		0	-	-	-	-	-	-
September	2040			0				0		0		0	-	-	-	-	-	-
October	2040			0				0		0		0	-	-	-	-	-	-
November	2040			0				0		0		0	-	-	-	-	-	-
December	2040			0				0		0		0	-	-	-	-	-	-

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

**Table 2. EM&V Data Incremental by Vintage Year**

	Program Participants										System IRP
			VA IRP		VA NLR			NC IRP		NC NLR	
2019			2,507,265		2,507,265			-		-	2,507,265

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants										System IRP
			VA IRP		VA NLR			NC IRP		NC NLR	
2019			2,507,265		2,507,265			-		-	2,507,265

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants										System
	VA							NC PPI			
2019								-			
2020								-			
2021								-			
2022								-			
2023								-			
2024								-			
2025								-			

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

**Table 2. EM&V Data Incremental by Vintage Year**

	Gross Incremental Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			15,547,731		15,547,731			-		-	15,547,731

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			73,007,561		73,007,561			-		-	73,007,561

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross Energy (kWh) for PPI										
	VA							NC PPI			System
2019								-			
2020								-			
2021								-			
2022								-			
2023								-			
2024								-			
2025								-			

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2019	4,675	4,675	-	-	4,675	6	-	6	0.00	-	0.00					

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2019	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant				
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant				
	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA	NC PPI	System	VA	NC	System	VA	NC	System
2019											-							
2020											-							
2021											-							
2022											-							
2023											-							
2024											-							
2025											-							

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			2,507,265		2,507,265			-		-	2,507,265
2020			2,507,265		2,507,265			-		-	2,507,265
2021			2,507,265		2,507,265			-		-	2,507,265
2022			2,507,265		2,507,265			-		-	2,507,265
2023			2,507,265		2,507,265			-		-	2,507,265
2024			2,507,265		2,507,265			-		-	2,507,265
2025			2,507,265		2,507,265			-		-	2,507,265
2026			2,507,265		2,507,265			-		-	2,507,265
2027			2,507,265		2,507,265			-		-	2,507,265
2028			2,507,265		2,507,265			-		-	2,507,265
2029			2,507,265		2,507,265			-		-	2,507,265
2030			2,507,265		2,507,265			-		-	2,507,265
2031			2,507,265		2,507,265			-		-	2,507,265
2032			2,507,265		2,507,265			-		-	2,507,265
2033			2,507,265		2,507,265			-		-	2,507,265
2034			2,507,265		2,507,265			-		-	2,507,265
2035			2,507,265		2,507,265			-		-	2,507,265
2036			-		-			-		-	-
2037			-		-			-		-	-
2038			-		-			-		-	-
2039			-		-			-		-	-
2040			-		-			-		-	-

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

	Program Participants										
			VA Lifetime					NC Lifetime			System Lifetime
2019			2,507,265					-			2,507,265
2020			2,507,265					-			2,507,265
2021			2,507,265					-			2,507,265
2022			2,507,265					-			2,507,265
2023			2,507,265					-			2,507,265
2024			2,507,265					-			2,507,265
2025			2,507,265					-			2,507,265
2026			2,507,265					-			2,507,265
2027			2,507,265					-			2,507,265
2028			2,507,265					-			2,507,265
2029			2,507,265					-			2,507,265
2030			2,507,265					-			2,507,265
2031			2,507,265					-			2,507,265
2032			2,507,265					-			2,507,265
2033			2,507,265					-			2,507,265
2034			2,507,265					-			2,507,265
2035			2,507,265					-			2,507,265
2036			2,507,265					-			2,507,265
2037			2,507,265					-			2,507,265
2038			2,507,265					-			2,507,265
2039			2,507,265					-			2,507,265
2040			2,507,265					-			2,507,265



# Appendix C.4 Residential Efficient Products Marketplace Program 2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2019			6,083,963		6,083,963			-		-	6,083,963
2020			73,007,561		73,007,561			-		-	73,007,561
2021			73,007,561		73,007,561			-		-	73,007,561
2022			73,007,561		73,007,561			-		-	73,007,561
2023			73,007,561		73,007,561			-		-	73,007,561
2024			73,007,561		73,007,561			-		-	73,007,561
2025			73,007,561		73,007,561			-		-	73,007,561
2026			73,007,561		73,007,561			-		-	73,007,561
2027			73,007,561		73,007,561			-		-	73,007,561
2028			73,007,561		73,007,561			-		-	73,007,561
2029			73,007,561		73,007,561			-		-	73,007,561
2030			73,007,561		73,007,561			-		-	73,007,561
2031			73,007,561		73,007,561			-		-	73,007,561
2032			73,007,561		73,007,561			-		-	73,007,561
2033			73,007,561		73,007,561			-		-	73,007,561
2034			73,007,561		73,007,561			-		-	73,007,561
2035			73,007,561		73,007,561			-		-	73,007,561
2036			14,872,087		14,872,087			-		-	14,872,087
2037			-		-			-		-	-
2038			-		-			-		-	-
2039			-		-			-		-	-
2040			-		-			-		-	-

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

	Gross Energy (kWh)										
			VA Lifetime					NC Lifetime			System Lifetime
2019			6,083,963					-			6,083,963
2020			79,091,525					-			79,091,525
2021			152,099,086					-			152,099,086
2022			225,106,647					-			225,106,647
2023			298,114,208					-			298,114,208
2024			371,121,769					-			371,121,769
2025			444,129,330					-			444,129,330
2026			517,136,891					-			517,136,891
2027			590,144,452					-			590,144,452
2028			663,152,014					-			663,152,014
2029			736,159,575					-			736,159,575
2030			809,167,136					-			809,167,136
2031			882,174,697					-			882,174,697
2032			955,182,258					-			955,182,258
2033			1,028,189,819					-			1,028,189,819
2034			1,101,197,380					-			1,101,197,380
2035			1,174,204,941					-			1,174,204,941
2036			1,189,077,028					-			1,189,077,028
2037			1,189,077,028					-			1,189,077,028
2038			1,189,077,028					-			1,189,077,028
2039			1,189,077,028					-			1,189,077,028
2040			1,189,077,028					-			1,189,077,028

# Appendix C.4 Residential Efficient Products Marketplace Program 2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2019	4,675	4,675	-	-	4,675	2	-	2	0.00	-	0.00					
2020	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2021	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2022	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2023	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2024	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2025	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2026	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2027	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2028	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2029	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2030	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2031	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2032	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2033	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2034	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2035	4,675	4,675	-	-	4,675	29	-	29	0.00	-	0.00					
2036	-	-	-	-	-	-	-	-	-	-	-					
2037	-	-	-	-	-	-	-	-	-	-	-					
2038	-	-	-	-	-	-	-	-	-	-	-					
2039	-	-	-	-	-	-	-	-	-	-	-					
2040	-	-	-	-	-	-	-	-	-	-	-					

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA Lifetime	NC Lifetime	System Lifetime	VA	NC	System	VA	NC	System							
2019	4,675	-	4,675	2	-	2	0.00	-	0.00							
2020	4,675	-	4,675	32	-	32	0.00	-	0.00							
2021	4,675	-	4,675	61	-	61	0.00	-	0.00							
2022	4,675	-	4,675	90	-	90	0.00	-	0.00							
2023	4,675	-	4,675	119	-	119	0.00	-	0.00							
2024	4,675	-	4,675	148	-	148	0.00	-	0.00							
2025	4,675	-	4,675	177	-	177	0.00	-	0.00							
2026	4,675	-	4,675	206	-	206	0.00	-	0.00							
2027	4,675	-	4,675	235	-	235	0.00	-	0.00							
2028	4,675	-	4,675	264	-	264	0.00	-	0.00							
2029	4,675	-	4,675	294	-	294	0.00	-	0.00							
2030	4,675	-	4,675	323	-	323	0.00	-	0.00							
2031	4,675	-	4,675	352	-	352	0.00	-	0.00							
2032	4,675	-	4,675	381	-	381	0.00	-	0.00							
2033	4,675	-	4,675	410	-	410	0.00	-	0.00							
2034	4,675	-	4,675	439	-	439	0.00	-	0.00							
2035	4,675	-	4,675	468	-	468	0.00	-	0.00							
2036	4,675	-	4,675	474	-	474	0.00	-	0.00							
2037	4,675	-	4,675	474	-	474	0.00	-	0.00							
2038	4,675	-	4,675	474	-	474	0.00	-	0.00							
2039	4,675	-	4,675	474	-	474	0.00	-	0.00							
2040	4,675	-	4,675	474	-	474	0.00	-	0.00							

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

<b>PROGRAM:</b> Non-residential Lighting Systems and Controls
<b>DSM Phase III Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 9.0 years

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP E+G	
		VA					NC						
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D		
January	2014	0		0		0							0
February	2014	0		0		0							0
March	2014	0		0		0							0
April	2014	0		0		0							0
May	2014	0		0		0							0
June	2014	0		0		0							0
July	2014	0		0		0							0
August	2014	0		0		0							0
September	2014	0		0		0							0
October	2014	14		14		14							14
November	2014	63		77		77							77
December	2014	41		118		118							118
January	2015	50		168		168	0		0				168
February	2015	48		216		216	0		0				216
March	2015	68		284		284	0		0				284
April	2015	71		355		355	1		1				356
May	2015	112		467		467	0		1				468
June	2015	110		577		577	1		2				579
July	2015	78		655		655	0		2				657
August	2015	127		782		782	0		2				784
September	2015	278		1,060		1,060	3		5				1,065
October	2015	162		1,222		1,222	5		10				1,232
November	2015	62		1,284		1,284	1		11				1,295
December	2015	75		1,359		1,359	2		13				1,372
January	2016	104		1,463		1,463	1		14				1,477
February	2016	53		1,516		1,516	1		15				1,531
March	2016	113		1,629		1,629	2		17				1,646
April	2016	71		1,700		1,700	1		18				1,718
May	2016	124		1,824		1,824	0		18				1,842
June	2016	160		1,984		1,984	10		28				2,012
July	2016	141		2,125		2,125	1		29	1			2,154
August	2016	139		2,264		2,264	16		45	17			2,309
September	2016	66		2,330		2,330	1		46	18			2,376
October	2016	74		2,404		2,404	5		51	23			2,455
November	2016	92		2,496		2,496	2		53	25			2,549
December	2016	66		2,562		2,562	3		56				2,618
January	2017	81		2,643		2,643	1		57				2,700
February	2017	78		2,721		2,721	1		58				2,779
March	2017	86		2,807		2,807	2		60				2,867
April	2017	81		2,888		2,888	5		65				2,953
May	2017	87		2,975		2,975	6		71				3,046
June	2017	78		3,053		3,053	0		71				3,124
July	2017	66		3,119		3,119	0		71				3,190
August	2017	77		3,196		3,196	1		72				3,268
September	2017	64		3,260		3,260	3		75				3,335
October	2017	78		3,338		3,338	3		78				3,416
November	2017	57		3,395		3,395	1		79				3,474
December	2017	35		3,430		3,430	0		79				3,509
January	2018	13		3,443		3,443	0		79				3,522
February	2018	60		3,503		3,503	2		81				3,584
March	2018	32		3,535		3,535	13		94				3,629
April	2018	22		3,557		3,557	5		99				3,656
May	2018	40		3,597		3,597	5		104				3,701
June	2018	47		3,644		3,644	6		110				3,754
July	2018	48		3,692		3,692	3		113				3,805
August	2018	64		3,756		3,756	0		113				3,869
September	2018	66		3,822		3,822	0		113				3,935
October	2018	134		3,956		3,956	4		117				4,073
November	2018	47		4,003		4,003	0		117				4,120
December	2018	76		4,079		4,079	5		122				4,201

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2014	0		0		0						0
February	2014	0		0		0						0
March	2014	0		0		0						0
April	2014	0		0		0						0
May	2014	0		0		0						0
June	2014	0		0		0						0
July	2014	0		0		0						0
August	2014	0		0		0						0
September	2014	0		0		0						0
October	2014	22,981		22,981		22,981						22,981
November	2014	167,666		190,647		190,647						190,647
December	2014	205,161		395,808		395,808						395,808
January	2015	80,379		476,187		476,187	0		0		0	476,187
February	2015	146,110		622,297		622,297	0		0		0	622,297
March	2015	325,407		947,704		947,704	0		0		0	947,704
April	2015	290,147		1,237,852		1,237,852	2,694		2,694	2,694	2,694	1,240,546
May	2015	482,242		1,720,093		1,720,093	0		2,694	1,720,093	2,694	1,722,788
June	2015	850,558		2,570,651		2,570,651	0		2,694	2,570,651	2,694	2,573,345
July	2015	227,073		2,797,724		2,797,724	0		2,694	2,797,724	2,694	2,800,419
August	2015	285,585		3,083,310		3,083,310	0		2,694	3,083,310	2,694	3,086,004
September	2015	415,700		3,499,010		3,499,010	9,884		12,578	3,499,010	12,578	3,511,588
October	2015	640,872		4,139,881		4,139,881	29,860		42,438	4,139,881	42,438	4,182,320
November	2015	178,091		4,317,972		4,317,972	1,200		43,638	4,317,972	43,638	4,361,611
December	2015	313,507		4,631,480		4,631,480	3,389		47,027	4,631,480	47,027	4,678,507
January	2016	361,959		4,993,439		4,993,439	998		48,025	4,993,439	48,025	5,041,463
February	2016	245,750		5,239,189		5,239,189	3,139		51,164	5,239,189	51,164	5,290,353
March	2016	413,500		5,652,689		5,652,689	75,876		127,040	5,652,689	127,040	5,779,729
April	2016	270,437		5,923,126		5,923,126	20,554		147,595	5,923,126	147,595	6,070,720
May	2016	388,209		6,311,334		6,311,334	0		147,595	6,311,334	147,595	6,458,929
June	2016	772,155		7,083,490		7,083,490	21,923		169,518	7,083,490	169,518	7,253,007
July	2016	598,731		7,682,221		7,682,221	7,076		176,594	7,682,221	7,076	7,858,815
August	2016	702,986		8,385,207		8,385,207	71,923		248,517	8,385,207	78,999	8,633,724
September	2016	391,390		8,776,597		8,776,597	4,747		253,263	8,776,597	83,746	9,029,860
October	2016	370,591		9,147,187		9,147,187	27,580		280,843	9,147,187	111,326	9,428,031
November	2016	673,164		9,820,351		9,820,351	12,250		293,093	9,820,351	123,575	10,113,445
December	2016	300,877		10,121,228		10,121,228	31,728		324,821	10,121,228		10,446,049
January	2017	568,424		10,689,652		10,689,652	6,189		331,010	10,689,652	161,492	11,020,662
February	2017	390,893		11,080,545		11,080,545	4,104		335,113	11,080,545	165,596	11,415,658
March	2017	618,426		11,698,970		11,698,970	13,538		348,651	11,698,970	179,133	12,047,621
April	2017	488,200		12,187,171		12,187,171	23,563		372,214	12,187,171	202,696	12,559,385
May	2017	434,562		12,621,733		12,621,733	42,857		415,071	12,621,733	245,553	13,036,804
June	2017	321,486		12,943,219		12,943,219	0		415,071	12,943,219	245,553	13,358,290
July	2017	260,316		13,203,535		13,203,535	0		415,071	13,203,535	245,553	13,618,606
August	2017	541,903		13,745,438		13,745,438	10,799		425,870	13,745,438	256,352	14,171,308
September	2017	582,455		14,327,893		14,327,893	40,047		465,916	14,327,893	296,399	14,793,809
October	2017	796,336		15,124,229		15,124,229	2,105		468,021	15,124,229	298,503	15,592,250
November	2017	640,836		15,765,066		15,765,066	1,582		469,603	15,765,066	300,085	16,234,669
December	2017	274,880		16,039,946		16,039,946	61		469,664	16,039,946	300,147	16,509,610
January	2018	77,471		16,117,416		16,117,416	0		469,664	16,117,416	300,147	16,587,081
February	2018	334,509		16,451,925		16,451,925	39,026		508,691	16,451,925	339,173	16,960,616
March	2018	233,028		16,684,953		16,684,953	24,660		533,351	16,684,953	363,833	17,218,304
April	2018	101,148		16,786,101		16,786,101	2,760		536,111	16,786,101	366,594	17,322,212
May	2018	421,552		17,207,652		17,207,652	2,968		539,079	17,207,652	369,561	17,746,731
June	2018	296,376		17,504,028		17,504,028	6,058		545,137	17,504,028	375,619	18,049,165
July	2018	308,830		17,812,858		17,812,858	64,427		609,563	17,812,858	440,045	18,422,422
August	2018	226,673		18,039,531		18,039,531	0		609,563	18,039,531	440,045	18,649,094
September	2018	301,155		18,340,687		18,340,687	0		609,563	18,340,687	440,045	18,950,250
October	2018	607,007		18,947,693		18,947,693	11,327		620,890	18,947,693	451,373	19,568,584
November	2018	307,980		19,255,673		19,255,673	0		620,890	19,255,673	451,373	19,876,563
December	2018	547,401		19,803,074		19,803,074	279,781		900,671	19,803,074	731,153	20,703,745

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant			
		Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA						NC					System	VA	NC	System	VA	NC	System
		Month	Year	VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)						
January	2014	0		0		0						0	-	-	-	-	-	-	
February	2014	0		0		0						0	-	-	-	-	-	-	
March	2014	0		0		0						0	-	-	-	-	-	-	
April	2014	0		0		0						0	-	-	-	-	-	-	
May	2014	0		0		0						0	-	-	-	-	-	-	
June	2014	0		0		0						0	-	-	-	-	-	-	
July	2014	0		0		0						0	-	-	-	-	-	-	
August	2014	0		0		0						0	-	-	-	-	-	-	
September	2014	0		0		0						0	-	-	-	-	-	-	
October	2014	59		59		59						59	1,641		1,641	4.21		4.21	
November	2014	421		480		480						480	2,476		2,476	6.24		6.24	
December	2014	518		998		998						998	3,354		3,354	8.46		8.46	
January	2015	196		1,194		1,194	0				0	1,194	2,834	-	2,834	7.11	-	7.11	
February	2015	380		1,574		1,574	0				0	1,574	2,881	-	2,881	7.29	-	7.29	
March	2015	938		2,512		2,512	0				0	2,512	3,337	-	3,337	8.85	-	8.85	
April	2015	712		3,225		3,225	7				7	3,232	3,487	2,694	3,485	9.08	7.13	9.08	
May	2015	1,201		4,426		4,426	0				0	4,433	3,683	2,694	3,681	9.48	7.13	9.47	
June	2015	2,167		6,592		6,592	0				0	6,600	4,455	1,347	4,444	11.43	3.56	11.40	
July	2015	563		7,156		7,156	0				0	7,163	4,271	1,347	4,262	10.92	3.56	10.90	
August	2015	659		7,815		7,815	0				0	7,822	3,943	1,347	3,936	9.99	3.56	9.98	
September	2015	961		8,776		8,776	22				29	8,806	3,301	2,516	3,297	8.28	5.82	8.27	
October	2015	1,591		10,367		10,367	65				94	10,461	3,388	4,244	3,395	8.48	9.41	8.49	
November	2015	420		10,787		10,787	3				97	10,884	3,363	3,967	3,368	8.40	8.80	8.40	
December	2015	885		11,673		11,673	8				105	11,777	3,408	3,617	3,410	8.59	8.05	8.58	
January	2016	1,059		12,732		12,732	3				107	12,839	3,413	3,430	3,413	8.70	7.67	8.69	
February	2016	768		13,500		13,500	9				116	13,616	3,456	3,411	3,455	8.90	7.76	8.89	
March	2016	1,148		14,648		14,648	224				340	14,988	3,470	7,473	3,511	8.99	20.02	9.11	
April	2016	751		15,398		15,398	61				401	15,800	3,484	8,200	3,534	9.06	22.29	9.20	
May	2016	1,083		16,481		16,481	0				401	16,882	3,460	8,200	3,506	9.04	22.29	9.17	
June	2016	2,125		18,606		18,606	51				453	19,059	3,570	6,054	3,605	9.38	16.16	9.47	
July	2016	1,745		20,351		20,351	20				20	20,824	3,615	6,089	3,648	9.58	16.30	9.67	
August	2016	1,889		22,240		22,240	161				633	22,873	3,704	5,523	3,739	9.82	14.08	9.91	
September	2016	1,122		23,362		23,362	13				646	24,008	3,767	5,506	3,800	10.03	14.05	10.10	
October	2016	992		24,353		24,353	82				728	25,013	3,805	5,507	3,840	10.13	14.28	10.22	
November	2016	1,870		26,223		26,223	40				768	26,991	3,934	5,530	3,968	10.51	14.50	10.59	
December	2016	830		27,053		27,053	79				848	27,900	3,951	5,800	3,990	10.56	15.14	10.66	
January	2017	1,113		28,165		28,165	0				395	29,013	4,045	5,807	4,082	10.66	14.87	10.75	
February	2017	805		28,971		28,971	0				395	29,818	4,072	5,778	4,108	10.65	14.62	10.73	
March	2017	1,189		30,159		30,159	36				884	31,043	4,168	5,811	4,202	10.74	14.73	10.83	
April	2017	948		31,108		31,108	55				939	32,047	4,220	5,726	4,253	10.77	14.45	10.85	
May	2017	873		31,981		31,981	116				1,055	33,036	4,243	5,846	4,280	10.75	14.86	10.85	
June	2017	505		32,486		32,486	0				603	33,541	4,240	5,846	4,276	10.64	14.86	10.74	
July	2017	461		32,947		32,947	0				603	34,003	4,233	5,846	4,269	10.56	14.86	10.66	
August	2017	964		33,911		33,911	22				625	34,988	4,301	5,915	4,336	10.61	14.96	10.71	
September	2017	1,225		35,136		35,136	94				719	36,307	4,395	6,212	4,436	10.78	15.62	10.89	
October	2017	1,649		36,785		36,785	7				726	37,963	4,531	6,000	4,564	11.02	15.11	11.11	
November	2017	1,537		38,322		38,322	4				730	39,505	4,644	5,944	4,673	11.29	14.97	11.37	
December	2017	689		39,011		39,011	0				1,182	40,193	4,676	5,945	4,705	11.37	14.97	11.45	
January	2018	134		39,144		39,144	0				730	40,327	4,681	5,945	4,710	11.37	14.97	11.45	
February	2018	625		39,770		39,770	92				1,274	41,044	4,697	6,280	4,732	11.35	15.73	11.45	
March	2018	271		40,041		40,041	63				885	41,378	4,720	5,674	4,745	11.33	14.23	11.40	
April	2018	144		40,185		40,185	5				889	41,528	4,719	5,415	4,738	11.30	13.56	11.36	
May	2018	952		41,137		41,137	4				893	42,483	4,784	5,183	4,795	11.44	12.94	11.48	
June	2018	499		41,636		41,636	7				901	42,989	4,804	4,956	4,808	11.43	12.30	11.45	
July	2018	551		42,187		42,187	158				1,059	43,699	4,825	5,394	4,842	11.43	13.38	11.48	
August	2018	442		42,629		42,629	0				1,059	44,141	4,803	5,394	4,820	11.35	13.38	11.41	
September	2018	608		43,237		43,237	0				1,059	44,749	4,799	5,394	4,816	11.31	13.38	11.37	
October	2018	1,329		44,566		44,566	20				1,079	46,098	4,790	5,307	4,804	11.27	13.09	11.32	
November	2018	510		45,076		45,076	0				1,079	46,607	4,810	5,307	4,824	11.26	13.09	11.31	
December	2018	1,157		46,233		46,233	761				2,292	48,525	4,855	7,383	4,928	11.33	18.79	11.55	

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Participation										
Month	Year	Program Participants					System					
		VA		VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B			NC		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)			System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Rate Reset Adj. [B]	NC Monthly New	NC Monthly Retired	NC Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Rate Reset Adj.	System Cum for IRP	
January	2019	161		4,240	4,240	0		4,240	0	122	94	4,362
February	2019	176		4,416	4,416	12		4,416	12	134	106	4,550
March	2019	85		4,501	4,501	14		4,501	14	148	120	4,649
April	2019	0		4,501	4,501	5		4,501	5	153	125	4,654
May	2019	0		4,501	4,501	7		4,501	7	160	132	4,661
June	2019	0		4,501	4,501	2		4,501	2	162	134	4,663
July	2019	0		4,501	4,501	4		4,501	4	166	138	4,667
August	2019	0		4,501	4,501	0		4,501	0	166	138	4,667
September	2019	0		4,501	4,501	4		4,501	4	170	142	4,671
October	2019	0		4,501	4,501	3		4,501	3	173	145	4,674
November	2019	0		4,501	4,501	10		4,501	10	183	21	4,684
December	2019	0		4,501	4,501	1		4,501	1	184	22	4,685
January	2020			4,501	4,501			4,501		184	22	4,685
February	2020			4,501	4,501			4,501		184	22	4,685
March	2020			4,501	4,501			4,501		184	22	4,685
April	2020			4,501	4,501			4,501		184	22	4,685
May	2020			4,501	4,501			4,501		184	22	4,685
June	2020			4,501	4,501			4,501		184	22	4,685
July	2020			4,501	4,501			4,501		184	22	4,685
August	2020			4,501	4,501			4,501		184	22	4,685
September	2020			4,501	4,501			4,501		184	22	4,685
October	2020			4,501	4,501			4,501		184	22	4,685
November	2020			4,501	4,501			4,501		184	22	4,685
December	2020			4,501	4,501			4,501		184	22	4,685
January	2021			4,501	4,501			4,501		184	22	4,685
February	2021			4,501	4,501			4,501		184	22	4,685
March	2021			4,501	4,501			4,501		184	22	4,685
April	2021			4,501	4,501			4,501		184	22	4,685
May	2021			4,501	4,501			4,501		184	22	4,685
June	2021			4,501	4,501			4,501		184	22	4,685
July	2021			4,501	4,501			4,501		184	22	4,685
August	2021			4,501	4,501			4,501		184	22	4,685
September	2021			4,501	4,501			4,501		184	22	4,685
October	2021			4,501	4,501			4,501		184	22	4,685
November	2021			4,501	4,501			4,501		184	22	4,685
December	2021			4,501	4,501			4,501		184	22	4,685
January	2022			4,501	4,501			4,501		184	22	4,685
February	2022			4,501	4,501			4,501		184	22	4,685
March	2022			4,501	4,501			4,501		184	22	4,685
April	2022			4,501	4,501			4,501		184	22	4,685
May	2022			4,501	4,501			4,501		184	22	4,685
June	2022			4,501	4,501			4,501		184	22	4,685
July	2022			4,501	4,501			4,501		184	22	4,685
August	2022			4,501	4,501			4,501		184	22	4,685
September	2022			4,501	4,501			4,501		184	22	4,685
October	2022			4,501	4,501			4,501		184	22	4,685
November	2022			4,501	4,501			4,501		184	22	4,685
December	2022			4,501	4,501			4,501		184	22	4,685
January	2023			4,501	4,501			4,501		184	22	4,685
February	2023			4,501	4,501			4,501		184	22	4,685
March	2023			4,501	4,501			4,501		184	22	4,685
April	2023			4,501	4,501			4,501		184	22	4,685
May	2023			4,501	4,501			4,501		184	22	4,685
June	2023			4,501	4,501			4,501		184	22	4,685
July	2023			4,501	4,501			4,501		184	22	4,685
August	2023			4,501	4,501			4,501		184	22	4,685
September	2023			4,501	4,501			4,501		184	22	4,685
October	2023		-14	4,487	4,487			4,487		184	22	4,671
November	2023		-63	4,424	4,424			4,424		184	22	4,608
December	2023		-41	4,383	4,383			4,383		184	22	4,567

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2019	1,006,381		20,809,455		20,809,455	0		900,671		731,153	21,710,126
February	2019	1,690,988		22,500,443		22,500,443	36,698		937,369		767,851	23,437,811
March	2019	801,707		23,302,150		23,302,150	63,889		1,001,258		831,740	24,303,408
April	2019	0		23,302,150		23,302,150	65,700		1,066,958		897,440	24,369,108
May	2019	0		23,302,150		23,302,150	27,589		1,094,547		925,030	24,396,697
June	2019	0		23,302,150		23,302,150	7,993		1,102,540		933,022	24,404,689
July	2019	0		23,302,150		23,302,150	23,455		1,125,995	23,455	956,477	24,428,145
August	2019	0		23,302,150		23,302,150	501		1,126,496	23,956	956,978	24,428,645
September	2019	0		23,302,150		23,302,150	5,340		1,131,835	29,296	962,318	24,433,985
October	2019	0		23,302,150		23,302,150	11,620		1,143,455	40,916	973,938	24,445,605
November	2019	0		23,302,150		23,302,150	6,401		1,149,857	47,317	47,317	24,452,006
December	2019	0		23,302,150		23,302,150	3,317		1,153,174		50,634	24,455,323
January	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
February	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
March	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
April	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
May	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
June	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
July	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
August	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
September	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
October	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
November	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
December	2020			23,302,150		23,302,150			1,153,174		50,634	24,455,323
January	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
February	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
March	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
April	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
May	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
June	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
July	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
August	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
September	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
October	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
November	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
December	2021			23,302,150		23,302,150			1,153,174		50,634	24,455,323
January	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
February	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
March	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
April	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
May	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
June	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
July	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
August	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
September	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
October	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
November	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
December	2022			23,302,150		23,302,150			1,153,174		50,634	24,455,323
January	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
February	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
March	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
April	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
May	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
June	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
July	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
August	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
September	2023			23,302,150		23,302,150			1,153,174		50,634	24,455,323
October	2023		-22,981	23,279,169		23,279,169			1,153,174		50,634	24,432,342
November	2023		-167,666	23,111,503		23,111,503			1,153,174		50,634	24,264,677
December	2023		-205,161	22,906,342		22,906,342			1,153,174		50,634	24,059,515





# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Participation Program Participants											
Month	Year	VA				NC				System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2024		-50	4,333		4,333				184		22	4,517
February	2024		-48	4,285		4,285				184		22	4,469
March	2024		-68	4,217		4,217				184		22	4,401
April	2024		-71	4,146		4,146		-1		183		21	4,329
May	2024		-112	4,034		4,034		0		183		21	4,217
June	2024		-110	3,924		3,924		-1		182		20	4,106
July	2024		-78	3,846		3,846		0		182		20	4,028
August	2024		-127	3,719		3,719		0		182		20	3,901
September	2024		-278	3,441		3,441		-3		179		17	3,620
October	2024		-162	3,279		3,279		-5		174		12	3,453
November	2024		-62	3,217		3,217		-1		173		11	3,390
December	2024		-75	3,142		3,142		-2		171		9	3,313
January	2025		-104	3,038		3,038		-1		170		8	3,208
February	2025		-53	2,985		2,985		-1		169		7	3,154
March	2025		-113	2,872		2,872		-2		167		5	3,039
April	2025		-71	2,801		2,801		-1		166		4	2,967
May	2025		-124	2,677		2,677		0		166		4	2,843
June	2025		-160	2,517		2,517		-10		156		-6	2,673
July	2025		-141	2,376		2,376		-1		155		-7	2,531
August	2025		-139	2,237		2,237		-16		139		-23	2,376
September	2025		-66	2,171		2,171		-1		138		-24	2,309
October	2025		-74	2,097		2,097		-5		133		-29	2,230
November	2025		-92	2,005		2,005		-2		131		-31	2,136
December	2025		-66	1,939		1,939		-3		128		-34	2,067
January	2026		-81	1,858		1,858		-1		127		-35	1,985
February	2026		-78	1,780		1,780		-1		126		-36	1,906
March	2026		-86	1,694		1,694		-2		124		-38	1,818
April	2026		-81	1,613		1,613		-5		119		-43	1,732
May	2026		-87	1,526		1,526		-6		113		-49	1,639
June	2026		-78	1,448		1,448		0		113		-49	1,561
July	2026		-66	1,382		1,382		0		113		-49	1,495
August	2026		-77	1,305		1,305		-1		112		-50	1,417
September	2026		-64	1,241		1,241		-3		109		-53	1,350
October	2026		-78	1,163		1,163		-3		106		-56	1,269
November	2026		-57	1,106		1,106		-1		105		-57	1,211
December	2026		-35	1,071		1,071		0		105		-57	1,176
January	2027		-13	1,058		1,058		0		105		-57	1,163
February	2027		-60	998		998		-2		103		-59	1,101
March	2027		-32	966		966		-13		90		-72	1,056
April	2027		-22	944		944		-5		85		-77	1,029
May	2027		-40	904		904		-5		80		-82	984
June	2027		-47	857		857		-6		74		-88	931
July	2027		-48	809		809		-3		71		-91	880
August	2027		-64	745		745		0		71		-91	816
September	2027		-66	679		679		0		71		-91	750
October	2027		-134	545		545		-4		67		-95	612
November	2027		-47	498		498		0		67		-95	565
December	2027		-76	422		422		-5		62		-100	484
January	2028		-161	261		261		0		62		-100	323
February	2028		-176	85		85		-12		50		-112	135
March	2028		-85	0		0		-14		36		-126	36
April	2028		0	0		0		-5		31		-131	31
May	2028		0	0		0		-7		24		-138	24
June	2028		0	0		0		-2		22		-140	22
July	2028		0	0		0		-4		18		-144	18
August	2028		0	0		0		0		18		-144	18
September	2028		0	0		0		-4		14		-148	14
October	2028		0	0		0		-3		11		-151	11
November	2028		0	0		0		-10		1		-161	1
December	2028		0	0		0		-1		0		-162	0

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2024		-80,379	22,825,963		22,825,963			1,153,174		50,634	23,979,136
February	2024		-146,110	22,679,852		22,679,852			1,153,174		50,634	23,833,026
March	2024		-325,407	22,354,445		22,354,445			1,153,174		50,634	23,507,619
April	2024		-290,147	22,064,298		22,064,298		-2,694	1,150,479		47,939	23,214,777
May	2024		-482,242	21,582,056		21,582,056		0	1,150,479		47,939	22,732,535
June	2024		-850,558	20,731,498		20,731,498		0	1,150,479		47,939	21,881,978
July	2024		-227,073	20,504,425		20,504,425		0	1,150,479		47,939	21,654,905
August	2024		-285,585	20,218,840		20,218,840		0	1,150,479		47,939	21,369,319
September	2024		-415,700	19,803,140		19,803,140		-9,884	1,140,595		38,056	20,943,735
October	2024		-640,872	19,162,268		19,162,268		-29,860	1,110,735		8,195	20,273,003
November	2024		-178,091	18,984,177		18,984,177		-1,200	1,109,535		6,995	20,093,712
December	2024		-313,507	18,670,670		18,670,670		-3,389	1,106,146		3,607	19,776,816
January	2025		-361,959	18,308,711		18,308,711		-998	1,105,149		2,609	19,413,860
February	2025		-245,750	18,062,961		18,062,961		-3,139	1,102,009		-531	19,164,970
March	2025		-413,500	17,649,461		17,649,461		-75,876	1,026,133		-76,407	18,675,594
April	2025		-270,437	17,379,024		17,379,024		-20,554	1,005,579		-96,961	18,384,603
May	2025		-388,209	16,990,815		16,990,815		0	1,005,579		-96,961	17,996,394
June	2025		-772,155	16,218,660		16,218,660		-21,923	983,656		-118,884	17,202,316
July	2025		-598,731	15,619,929		15,619,929		-7,076	976,579		-125,960	16,596,508
August	2025		-702,986	14,916,943		14,916,943		-71,923	904,657		-197,883	15,821,599
September	2025		-391,390	14,525,553		14,525,553		-4,747	899,910		-202,630	15,425,463
October	2025		-370,591	14,154,962		14,154,962		-27,580	872,330		-230,210	15,027,292
November	2025		-673,164	13,481,798		13,481,798		-12,250	860,080		-242,459	14,341,879
December	2025		-300,877	13,180,921		13,180,921		-31,728	828,352		-274,187	14,009,274
January	2026		-568,424	12,612,498		12,612,498		-6,189	822,164		-280,376	13,434,661
February	2026		-390,893	12,221,605		12,221,605		-4,104	818,060		-284,479	13,039,665
March	2026		-618,426	11,603,179		11,603,179		-13,538	804,523		-298,017	12,407,702
April	2026		-488,200	11,114,979		11,114,979		-23,563	780,960		-321,580	11,895,938
May	2026		-434,562	10,680,416		10,680,416		-42,857	738,103		-364,437	11,418,519
June	2026		-321,486	10,358,930		10,358,930		0	738,103		-364,437	11,097,033
July	2026		-260,316	10,098,614		10,098,614		0	738,103		-364,437	10,836,717
August	2026		-541,903	9,556,711		9,556,711		-10,799	727,304		-375,236	10,284,015
September	2026		-582,455	8,974,257		8,974,257		-40,047	687,257		-415,283	9,661,514
October	2026		-796,336	8,177,920		8,177,920		-2,105	685,153		-417,387	8,863,073
November	2026		-640,836	7,537,084		7,537,084		-1,582	683,570		-418,969	8,220,654
December	2026		-274,880	7,262,204		7,262,204		-61	683,509		-419,031	7,945,713
January	2027		-77,471	7,184,733		7,184,733		0	683,509		-419,031	7,868,242
February	2027		-334,509	6,850,225		6,850,225		-39,026	644,483		-458,057	7,494,707
March	2027		-233,028	6,617,197		6,617,197		-24,660	619,822		-482,717	7,237,019
April	2027		-101,148	6,516,049		6,516,049		-2,760	617,062		-485,478	7,133,111
May	2027		-421,552	6,094,498		6,094,498		-2,968	614,095		-488,445	6,708,592
June	2027		-296,376	5,798,121		5,798,121		-6,058	608,037		-494,503	6,406,158
July	2027		-308,830	5,489,291		5,489,291		-64,427	543,610		-558,929	6,032,902
August	2027		-226,673	5,262,618		5,262,618		0	543,610		-558,929	5,806,229
September	2027		-301,155	4,961,463		4,961,463		0	543,610		-558,929	5,505,073
October	2027		-607,007	4,354,456		4,354,456		-11,327	532,283		-570,256	4,886,739
November	2027		-307,980	4,046,476		4,046,476		0	532,283		-570,256	4,578,760
December	2027		-547,401	3,499,076		3,499,076		-279,781	252,503		-850,037	3,751,578
January	2028		-1,006,381	2,492,695		2,492,695		0	252,503		-850,037	2,745,197
February	2028		-1,690,988	801,707		801,707		-36,698	215,805		-886,735	1,017,512
March	2028		-801,707	0		0		-63,889	151,915		-950,624	151,915
April	2028		0	0		0		-65,700	86,215		-1,016,324	86,215
May	2028		0	0		0		-27,589	58,626		-1,043,914	58,626
June	2028		0	0		0		-7,993	50,634		-1,051,906	50,634
July	2028		0	0		0		-23,455	27,178		-1,075,361	27,178
August	2028		0	0		0		-501	26,678		-1,075,862	26,678
September	2028		0	0		0		-5,340	21,338		-1,081,202	21,338
October	2028		0	0		0		-11,620	9,718		-1,092,822	9,718
November	2028		0	0		0		-6,401	3,317		-1,099,223	3,317
December	2028		0	0		0		-3,317	0		-1,102,540	0



# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP	
		VA					NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
January	2029		0	0		0		0		0		-162	0
February	2029		0	0		0		0		0		-162	0
March	2029		0	0		0		0		0		-162	0
April	2029		0	0		0		0		0		-162	0
May	2029		0	0		0		0		0		-162	0
June	2029		0	0		0		0		0		-162	0
July	2029		0	0		0		0		0		-162	0
August	2029		0	0		0		0		0		-162	0
September	2029		0	0		0		0		0		-162	0
October	2029		0	0		0		0		0		-162	0
November	2029		0	0		0		0		0		-162	0
December	2029		0	0		0		0		0		-162	0

Table 2. EM&V Data Incremental by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	118	118	-	-	118					
2015	1,241	1,241	13	13	1,254					
2016	1,203	1,203	43	28	1,246					
2017	868	868	23	23	891					
2018	649	649	43	43	692					
2019	422	422	62	22	484					

Table 3. EM&V Data Annualized by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	118	118	-	-	118					
2015	1,241	1,241	13	13	1,254					
2016	1,203	1,203	43	28	1,246					
2017	868	868	23	23	891					
2018	649	649	43	43	692					
2019	422	422	62	22	484					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
	Program Participants									
	VA	NC PPI	System							
2014		-								
2015		13								
2016		56								
2017		79								
2018		109								
2019		128								

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Energy Savings									
Month	Year	Gross kWh					System				
		VA		VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)			NC		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
		VA Monthly New	VA Monthly Retired	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2029		0		0		0		-1,102,540	0	
February	2029		0		0		0		-1,102,540	0	
March	2029		0		0		0		-1,102,540	0	
April	2029		0		0		0		-1,102,540	0	
May	2029		0		0		0		-1,102,540	0	
June	2029		0		0		0		-1,102,540	0	
July	2029		0		0		0		-1,102,540	0	
August	2029		0		0		0		-1,102,540	0	
September	2029		0		0		0		-1,102,540	0	
October	2029		0		0		0		-1,102,540	0	
November	2029		0		0		0		-1,102,540	0	
December	2029		0		0		0		-1,102,540	0	

Table 2. EM&V Data Incremental by Vintage Year										
Gross Incremental Energy (kWh)										
			VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2014			609,435		609,435		-		-	609,435
2015			25,294,469		25,294,469		159,154		159,154	25,453,623
2016			33,558,302		33,558,302		1,703,743		1,458,762	35,262,045
2017			37,972,659		37,972,659		1,033,422		1,033,422	39,006,081
2018			20,472,245		20,472,245		1,467,200		1,467,200	21,939,444
2019			38,694,506		38,694,506		2,126,105		1,722,367	40,820,610

Table 3. EM&V Data Annualized by Vintage Year										
Gross Annualized Energy (kWh)										
			VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2014			4,749,693		4,749,693		-		-	4,749,693
2015			50,828,062		50,828,062		564,326		564,326	51,392,388
2016			65,876,985		65,876,985		3,333,527		1,863,641	69,210,512
2017			71,024,607		71,024,607		1,738,121		1,738,121	72,762,728
2018			45,157,541		45,157,541		5,172,076		5,172,076	50,329,617
2019			41,988,907		41,988,907		3,030,032		607,605	45,018,940

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
Gross Energy (kWh) for PPI										
							NC PPI			System
2014							-			
2015							159,154			
2016							2,268,069			
2017							4,931,275			
2018							6,538,848			
2019							9,036,301			

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA				NC						System			System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
February	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
March	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
April	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
May	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
June	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
July	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
August	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
September	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
October	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
November	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	
December	2029		0	0		4,430,863		0	0	242,833	0	-	-	-	-	-	-	

Table 2. EM&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant				
Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP				
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014			998		998			-		-	998	5,165	-	5,165	8.46	-	8.46
2015			10,674		10,674			105		105	10,779	20,382	12,243	20,298	8.60	8.05	8.60
2016			15,380		15,380			743		395	16,123	27,896	39,622	28,300	12.78	17.28	12.94
2017			11,958		11,958			335		335	12,293	43,747	44,931	43,778	13.78	14.55	13.80
2018			7,222		7,222			1,110		1,110	8,332	31,544	34,121	31,704	11.13	25.81	12.04
2019			5,638		617,476			594		115	6,232	91,693	34,292	84,340	13.36	9.58	12.88

Table 3. EM&V Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant				
Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP				
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014			998		998			-		-	998	40,252	-	40,252	8.46	-	8.46
2015			10,674		10,674			105		105	10,779	40,957	43,410	40,983	8.60	8.05	8.60
2016			15,380		15,380			743		395	16,123	54,761	77,524	55,546	12.78	17.28	12.94
2017			11,958		11,958			335		335	12,293	81,826	75,570	81,664	13.78	14.55	13.80
2018			7,222		7,222			1,110		1,110	8,332	69,580	120,281	72,731	11.13	25.81	12.04
2019			5,638		617,476			594		115	6,232	99,500	48,871	93,014	13.36	9.58	12.88

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
								NC PPI		System	VA	NC	System	VA	NC	System
2014								-								
2015								105				12,243			8.05	
2016								848				40,501			15.14	
2017								1,182				62,421			14.97	
2018								2,188				59,989			20.07	
2019								2,039				70,596			15.93	

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	118	118	-	-	118					
2015	1,359	1,359	13	13	1,372					
2016	2,562	2,562	56	28	2,618					
2017	3,430	3,430	79	51	3,509					
2018	4,079	4,079	122	94	4,201					
2019	4,501	4,501	184	22	4,685					
2020	4,501	4,501	184	22	4,685					
2021	4,501	4,501	184	22	4,685					
2022	4,501	4,501	184	22	4,685					
2023	4,383	4,383	184	22	4,567					
2024	3,142	3,142	171	9	3,313					
2025	1,939	1,939	128	-	2,067					
2026	1,071	1,071	105	-	1,176					
2027	422	422	62	-	484					
2028	-	-	-	-	-					
2029	-	-	-	-	-					

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	118	118	-	-	118					
2015	1,359	1,359	13	13	1,372					
2016	2,562	2,562	56	28	2,618					
2017	3,430	3,430	79	51	3,509					
2018	4,079	4,079	122	94	4,201					
2019	4,501	4,501	184	22	4,685					
2020	4,501	4,501	184	22	4,685					
2021	4,501	4,501	184	22	4,685					
2022	4,501	4,501	184	22	4,685					
2023	4,501	4,501	184	22	4,685					
2024	4,501	4,501	184	22	4,685					
2025	4,501	4,501	184	22	4,685					
2026	4,501	4,501	184	22	4,685					
2027	4,501	4,501	184	22	4,685					
2028	4,501	4,501	184	22	4,685					
2029	4,501	4,501	184	22	4,685					

# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Year	Gross Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	609,435	609,435	-	-	609,435					
2015	30,044,162	30,044,162	159,154	159,154	30,203,316					
2016	89,136,057	89,136,057	2,268,069	1,929,033	91,404,126					
2017	159,427,398	159,427,398	4,931,275	2,897,063	164,358,674					
2018	212,951,591	212,951,591	7,103,174	5,068,962	220,054,765					
2019	276,331,393	276,331,393	12,934,154	9,033,898	289,265,548					
2020	279,625,795	279,625,795	13,838,082	607,605	293,463,877					
2021	279,625,795	279,625,795	13,838,082	607,605	293,463,877					
2022	279,625,795	279,625,795	13,838,082	607,605	293,463,877					
2023	279,016,360	279,016,360	13,838,082	607,605	292,854,442					
2024	249,581,633	249,581,633	13,678,928	448,451	263,260,562					
2025	190,489,738	190,489,738	11,570,013	-	202,059,752					
2026	120,198,397	120,198,397	8,906,807	-	129,105,204					
2027	66,674,204	66,674,204	6,734,908	-	73,409,112					
2028	3,294,402	3,294,402	903,928	-	4,198,329					
2029	-	-	-	-	-					

Year	Gross Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	609,435	609,435	-	-	609,435					
2015	30,653,597	30,653,597	159,154	-	30,812,751					
2016	119,789,654	119,789,654	2,427,223	-	122,216,876					
2017	279,217,052	279,217,052	7,358,498	-	286,575,550					
2018	492,168,643	492,168,643	14,461,671	-	506,630,315					
2019	768,500,037	768,500,037	27,395,826	-	795,895,863					
2020	1,048,125,832	1,048,125,832	41,233,908	-	1,089,359,740					
2021	1,327,751,627	1,327,751,627	55,071,990	-	1,382,823,617					
2022	1,607,377,422	1,607,377,422	68,910,072	-	1,676,287,494					
2023	1,886,393,782	1,886,393,782	82,748,154	-	1,969,141,936					
2024	2,135,975,415	2,135,975,415	96,427,082	-	2,232,402,497					
2025	2,326,465,154	2,326,465,154	107,997,095	-	2,434,462,249					
2026	2,446,663,550	2,446,663,550	116,903,902	-	2,563,567,453					
2027	2,513,337,754	2,513,337,754	123,638,810	-	2,636,976,564					
2028	2,516,632,155	2,516,632,155	124,542,738	-	2,641,174,894					
2029	2,516,632,155	2,516,632,155	124,542,738	-	2,641,174,894					



# Appendix C.5 Non-residential Lighting Systems and Controls Program 2014-2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity		
Year	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2014	998	998	-	-	998	5,165	-	5,165	8.46	-	8.46				
2015	11,673	11,673	105	105	11,777	22,108	12,243	22,014	8.59	8.05	8.58				
2016	27,053	27,053	848	848	27,900	34,792	40,501	34,914	10.56	15.14	10.66				
2017	39,011	39,011	1,182	1,182	40,193	46,480	62,421	46,839	11.37	14.97	11.45				
2018	46,233	46,233	2,292	2,292	48,525	52,207	58,223	52,382	11.33	18.79	11.55				
2019	51,871	663,709	2,887	2,887	54,757	61,393	70,294	61,743	11.52	15.69	11.69				
2020	51,871	1,286,158	2,887	2,887	54,757	62,125	75,207	62,639	11.52	15.69	11.69				
2021	51,871	1,908,606	2,887	2,887	54,757	62,125	75,207	62,639	11.52	15.69	11.69				
2022	51,871	2,531,054	2,887	2,887	54,757	62,125	75,207	62,639	11.52	15.69	11.69				
2023	50,872	3,151,965	2,887	2,887	53,759	63,659	75,207	64,124	11.61	15.69	11.77				
2024	40,198	3,698,315	2,782	2,782	42,980	79,434	79,994	79,463	12.79	16.27	12.97				
2025	24,818	4,085,818	2,039	2,039	201,670	26,857	98,241	97,755	12.80	15.93	12.99				
2026	12,860	4,309,285	1,704	1,704	223,833	14,564	112,230	84,827	109,783	12.01	16.23	12.38			
2027	5,638	4,425,891	594	594	240,746	6,232	157,996	108,628	151,672	13.36	9.58	12.88			
2028	-	4,430,863	0	0	242,833	-	-	-	-	-	-				
2029	-	4,430,863	0	0	242,833	-	-	-	-	-	-				

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)										Lifetime Energy			Lifetime Capacity		
Year	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2014	998	998	-	-	998	5,165	-	5,165	8.46	-	8.46				
2015	11,673	11,673	105	105	11,777	22,556	12,243	22,458	8.59	8.05	8.58				
2016	27,053	27,053	848	848	27,900	46,756	43,343	46,683	10.56	15.14	10.66				
2017	39,011	39,011	1,182	1,182	40,193	81,404	93,146	81,669	11.37	14.97	11.45				
2018	46,233	46,233	2,292	2,292	48,525	120,659	118,538	120,598	11.33	18.79	11.55				
2019	51,871	663,709	2,887	2,887	54,757	170,740	148,890	169,882	11.52	15.69	11.69				
2020	51,871	1,286,158	2,887	2,887	54,757	232,865	224,097	232,521	11.52	15.69	11.69				
2021	51,871	1,908,606	2,887	2,887	54,757	294,990	299,304	295,160	11.52	15.69	11.69				
2022	51,871	2,531,054	2,887	2,887	54,757	357,116	374,511	357,799	11.52	15.69	11.69				
2023	50,872	3,151,965	2,887	2,887	54,757	419,105	449,718	420,308	11.52	15.69	11.69				
2024	40,198	3,698,315	2,887	2,887	54,757	474,556	524,060	476,500	11.52	15.69	11.69				
2025	24,818	4,085,818	2,887	2,887	54,757	516,877	586,941	519,629	11.52	15.69	11.69				
2026	12,860	4,309,285	2,887	2,887	54,757	543,582	635,347	547,186	11.52	15.69	11.69				
2027	5,638	4,425,891	2,887	2,887	54,757	558,395	671,950	562,855	11.52	15.69	11.69				
2028	-	4,430,863	2,887	2,887	54,757	559,127	676,863	563,751	11.52	15.69	11.69				
2029	-	4,430,863	2,887	2,887	54,757	559,127	676,863	563,751	11.52	15.69	11.69				

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

**PROGRAM: Non-Residential Heating and Cooling Efficiency**  
**DSM Phase III Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 15.0 years**

Table 1		Participation										
Month	Year	VA					NC				System	
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	System Cum for IRP E+G
January	2014	0		0		0						0
February	2014	0		0		0						0
March	2014	0		0		0						0
April	2014	0		0		0						0
May	2014	0		0		0						0
June	2014	0		0		0						0
July	2014	0		0		0						0
August	2014	0		0		0						0
September	2014	0		0		0						0
October	2014	0		0		0						0
November	2014	1		1		1						1
December	2014	5		6		6						6
January	2015	0		6		6	0		0		0	6
February	2015	1		7		7	0		0		0	7
March	2015	0		7		7	0		0		0	7
April	2015	16		23		23	2		2		2	25
May	2015	34		57		57	1		3		3	60
June	2015	16		73		73	0		3		3	76
July	2015	26		99		99	0		3		3	102
August	2015	2		101		101	0		3		3	104
September	2015	7		108		108	0		3		3	111
October	2015	5		113		113	0		3		3	116
November	2015	2		115		115	0		3		3	118
December	2015	5		120		120	0		3		3	123
January	2016	7		127		127	0		3		3	130
February	2016	9		136		136	0		3		3	139
March	2016	4		140		140	0		3		3	143
April	2016	6		146		146	1		4		4	150
May	2016	6		152		152	1		5		5	157
June	2016	12		164		164	2		7		7	171
July	2016	7		171		171	0		7	0	7	178
August	2016	12		183		183	1		8	1	8	191
September	2016	7		190		190	0		8	1	8	198
October	2016	6		196		196	0		8	1	8	204
November	2016	6		202		202	1		9	2	2	211
December	2016	7		209		209	0		9		2	218
January	2017	9		218		218	0		9		2	227
February	2017	9		227		227	0		9		2	236
March	2017	1		228		228	0		9		2	237
April	2017	2		230		230	0		9		2	239
May	2017	13		243		243	1		10		3	253
June	2017	23		266		266	1		11		4	277
July	2017	12		278		278	0		11		4	289
August	2017	10		288		288	0		11		4	299
September	2017	8		296		296	1		12		5	308
October	2017	5		301		301	0		12		5	313
November	2017	10		311		311	0		12		5	323
December	2017	1		312		312	0		12		5	324
January	2018	0		312		312	0		12		5	324
February	2018	10		322		322	0		12		5	334
March	2018	3		325		325	1		13		6	338
April	2018	7		332		332	2		15		8	347
May	2018	5		337		337	0		15		8	352
June	2018	4		341		341	0		15		8	356
July	2018	10		351		351	0		15		8	366
August	2018	10		361		361	0		15		8	376
September	2018	10		371		371	0		15		8	386
October	2018	10		381		381	0		15		8	396
November	2018	4		385		385	0		15		8	400
December	2018	4		389		389	0		15		8	404

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Energy Savings										
Month	Year	VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2014	0		0		0						0
February	2014	0		0		0						0
March	2014	0		0		0						0
April	2014	0		0		0						0
May	2014	0		0		0						0
June	2014	0		0		0						0
July	2014	0		0		0						0
August	2014	0		0		0						0
September	2014	0		0		0						0
October	2014	0		0		0						0
November	2014	71,924		71,924		71,924						71,924
December	2014	49,492		121,416		121,416						121,416
January	2015	0		121,416		121,416	0			0		121,416
February	2015	2,702		124,118		124,118	0			0		124,118
March	2015	0		124,118		124,118	0			0		124,118
April	2015	246,386		370,503		370,503	3,163			3,163		373,666
May	2015	118,646		489,149		489,149	4,433			7,595		496,745
June	2015	34,651		523,800		523,800	0			7,595		531,396
July	2015	167,760		691,560		691,560	0			7,595		699,156
August	2015	1,139		692,700		692,700	0			7,595		700,295
September	2015	190,538		883,237		883,237	0			7,595		890,833
October	2015	70,208		953,445		953,445	0			7,595		961,041
November	2015	52,583		1,006,028		1,006,028	0			7,595		1,013,624
December	2015	42,874		1,048,902		1,048,902	0			7,595		1,056,498
January	2016	29,693		1,078,595		1,078,595	0			7,595		1,086,191
February	2016	28,448		1,107,044		1,107,044	0			7,595		1,114,639
March	2016	24,484		1,131,528		1,131,528	0			7,595		1,139,123
April	2016	202,811		1,334,339		1,334,339	915			8,510		1,342,849
May	2016	76,025		1,410,364		1,410,364	5,128			13,638		1,424,003
June	2016	80,435		1,490,799		1,490,799	17,446			31,084		1,521,883
July	2016	36,771		1,527,570		1,527,570	0			31,084	0	1,558,654
August	2016	212,255		1,739,825		1,739,825	534			31,618	534	1,771,443
September	2016	255,469		1,995,294		1,995,294	0			31,618	534	2,026,912
October	2016	59,971		2,055,265		2,055,265	0			31,618	534	2,086,882
November	2016	60,419		2,115,683		2,115,683	103			31,720	636	2,147,404
December	2016	70,495		2,186,178		2,186,178	0			31,720	636	2,217,898
January	2017	10,308		2,196,486		2,196,486	0			31,720	636	2,228,206
February	2017	47,495		2,243,981		2,243,981	0			31,720	636	2,275,701
March	2017	7,197		2,251,178		2,251,178	0			31,720	636	2,282,898
April	2017	17,141		2,268,318		2,268,318	0			31,720	636	2,300,039
May	2017	198,848		2,467,166		2,467,166	6,169			37,889	6,805	2,505,056
June	2017	56,145		2,523,311		2,523,311	35			37,924	6,840	2,561,235
July	2017	83,386		2,606,697		2,606,697	0			37,924	6,840	2,644,621
August	2017	12,913		2,619,610		2,619,610	0			37,924	6,840	2,657,534
September	2017	84,001		2,703,610		2,703,610	710			38,635	7,550	2,742,245
October	2017	34,869		2,738,479		2,738,479	0			38,635	7,550	2,777,114
November	2017	44,982		2,783,461		2,783,461	0			38,635	7,550	2,822,096
December	2017	29,957		2,813,418		2,813,418	0			38,635	7,550	2,852,052
January	2018	0		2,813,418		2,813,418	0			38,635	7,550	2,852,052
February	2018	60,354		2,873,772		2,873,772	0			38,635	7,550	2,912,406
March	2018	15,616		2,889,387		2,889,387	6,336			44,971	13,887	2,934,358
April	2018	39,950		2,929,338		2,929,338	12,478			57,449	26,365	2,986,787
May	2018	40,213		2,969,551		2,969,551	0			57,449	26,365	3,027,000
June	2018	33,973		3,003,524		3,003,524	0			57,449	26,365	3,060,973
July	2018	84,727		3,088,251		3,088,251	0			57,449	26,365	3,145,700
August	2018	339,770		3,428,021		3,428,021	0			57,449	26,365	3,485,470
September	2018	81,028		3,509,049		3,509,049	0			57,449	26,365	3,566,498
October	2018	65,140		3,574,189		3,574,189	0			57,449	26,365	3,631,638
November	2018	10,913		3,585,102		3,585,102	0			57,449	26,365	3,642,551
December	2018	46,548		3,631,650		3,631,650	0			57,449	26,365	3,689,100

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2014	0		0		0						0	-	-	-	-	-	-
February	2014	0		0		0						0	-	-	-	-	-	-
March	2014	0		0		0						0	-	-	-	-	-	-
April	2014	0		0		0						0	-	-	-	-	-	-
May	2014	0		0		0						0	-	-	-	-	-	-
June	2014	0		0		0						0	-	-	-	-	-	-
July	2014	0		0		0						0	-	-	-	-	-	-
August	2014	0		0		0						0	-	-	-	-	-	-
September	2014	0		0		0						0	-	-	-	-	-	-
October	2014	0		0		0						0	-	-	-	-	-	-
November	2014	338		338		338						338	71,924	-	71,924	338.32	-	338.32
December	2014	172		510		510						510	20,236	-	20,236	85.02	-	85.02
January	2015	0		510		510	0			0		510	20,236	-	20,236	85.02	-	85.02
February	2015	2		512		512	0			0		512	17,731	-	17,731	73.17	-	73.17
March	2015	0		512		512	0			0		512	17,731	-	17,731	73.17	-	73.17
April	2015	622		1,134		1,134	16			16		1,150	16,109	1,581	14,947	49.30	8.24	46.02
May	2015	386		1,520		1,520	2			19		1,539	8,582	2,532	8,279	26.67	6.28	25.65
June	2015	294		1,814		1,814	0			19		1,833	7,175	2,532	6,992	24.85	6.28	24.12
July	2015	417		2,231		2,231	0			19		2,250	6,985	2,532	6,854	22.54	6.28	22.06
August	2015	15		2,246		2,246	0			19		2,265	6,858	2,532	6,734	22.24	6.28	21.78
September	2015	558		2,804		2,804	0			19		2,823	8,178	2,532	8,026	25.96	6.28	25.43
October	2015	270		3,074		3,074	0			19		3,093	8,438	2,532	8,285	27.21	6.28	26.66
November	2015	64		3,138		3,138	0			19		3,157	8,748	2,532	8,590	27.29	6.28	26.75
December	2015	149		3,287		3,287	0			19		3,306	8,741	2,532	8,589	27.39	6.28	26.88
January	2016	83		3,370		3,370	0			19		3,389	8,493	2,532	8,355	26.53	6.28	26.07
February	2016	219		3,589		3,589	0			19		3,608	8,140	2,532	8,019	26.39	6.28	25.95
March	2016	77		3,665		3,665	0			19		3,684	8,082	2,532	7,966	26.18	6.28	25.76
April	2016	270		3,935		3,935	0			19		3,955	9,139	2,127	8,952	26.95	4.80	26.36
May	2016	49		3,985		3,985	55			74		4,059	9,279	2,728	9,070	26.22	14.78	25.85
June	2016	268		4,253		4,253	10			83		4,336	9,090	4,441	8,900	25.93	11.92	25.36
July	2016	137		4,389		4,389	0			83	0	4,473	8,933	4,441	8,756	25.67	11.92	25.13
August	2016	292		4,681		4,681	0			84	0	4,765	9,507	3,952	9,275	25.58	10.48	24.95
September	2016	182		4,863		4,863	0			84	0	4,947	10,502	3,952	10,237	25.60	10.48	24.99
October	2016	145		5,009		5,009	0			84	0	5,093	10,486	3,952	10,230	25.55	10.48	24.96
November	2016	174		5,183		5,183	0			84	1	5,267	10,474	3,524	10,177	25.66	9.34	24.96
December	2016	188		5,371		5,371	0			84		5,455	10,460	3,524	10,174	25.70	9.34	25.03
January	2017	25		5,397		5,397	0			84		5,481	10,076	3,524	9,816	24.76	9.34	24.14
February	2017	67		5,464		5,464	0			84		5,548	9,885	3,524	9,643	24.07	9.34	23.51
March	2017	12		5,476		5,476	0			84		5,560	9,874	3,524	9,632	24.02	9.34	23.46
April	2017	7		5,483		5,483	0			84		5,567	9,862	3,524	9,624	23.84	9.34	23.29
May	2017	1,471		6,954		6,954	-27			57	-27	7,011	10,153	3,789	9,901	28.62	5.69	27.71
June	2017	36		6,989		6,989	0			57	-27	7,046	9,486	3,448	9,246	26.28	5.17	25.44
July	2017	85		7,074		7,074	0			57	-27	7,131	9,377	3,448	9,151	25.45	5.17	24.68
August	2017	8		7,082		7,082	0			57	-27	7,139	9,096	3,448	8,888	24.59	5.17	23.88
September	2017	133		7,215		7,215	-1			56	-28	7,271	9,134	3,220	8,903	24.38	4.66	23.61
October	2017	48		7,263		7,263	0			56	-28	7,319	9,098	3,220	8,873	24.13	4.66	23.38
November	2017	41		7,304		7,304	0			56	-28	7,360	8,950	3,220	8,737	23.48	4.66	22.79
December	2017	14		7,318		7,318	0			56	-28	7,374	9,017	3,220	8,803	23.46	4.66	22.76
January	2018	0		7,318		7,318	0			56	-28	7,374	9,017	3,220	8,803	23.46	4.66	22.76
February	2018	29		7,347		7,347	0			56	-28	7,403	8,925	3,220	8,720	22.82	4.66	22.16
March	2018	20		7,367		7,367	5			61	-22	7,428	8,890	3,459	8,682	22.67	4.72	21.98
April	2018	16		7,383		7,383	79			141		7,523	8,823	3,830	8,607	22.24	9.37	21.68
May	2018	27		7,410		7,410	0			141		7,551	8,812	3,830	8,599	21.99	9.37	21.45
June	2018	89		7,499		7,499	0			141		7,640	8,808	3,830	8,598	21.99	9.37	21.46
July	2018	68		7,567		7,567	0			141		7,707	8,798	3,830	8,595	21.56	9.37	21.06
August	2018	215		7,782		7,782	0			141		7,923	9,496	3,830	9,270	21.56	9.37	21.07
September	2018	60		7,842		7,842	0			141		7,983	9,458	3,830	9,240	21.14	9.37	20.68
October	2018	64		7,906		7,906	0			141		8,047	9,381	3,830	9,171	20.75	9.37	20.32
November	2018	-43		7,863		7,863	0			141		8,003	9,312	3,830	9,106	20.42	9.37	20.01
December	2018	24		7,887		7,887	0			141		8,027	9,336	3,830	9,131	20.27	9.37	19.87

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Participation Program Participants										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2019	4		393		393	0		15		8	408
February	2019	10		403		403	0		15		8	418
March	2019	3		406		406	1		16		9	422
April	2019	0		406		406	0		16		9	422
May	2019	0		406		406	0		16		9	422
June	2019	0		406		406	0		16		9	422
July	2019	0		406		406	0		16	0	9	422
August	2019	0		406		406	0		16	0	9	422
September	2019	0		406		406	0		16	0	9	422
October	2019	0		406		406	0		16	0	9	422
November	2019	0		406		406	0		16	0	0	422
December	2019	0		406		406	0		16		0	422
January	2020	0		406		406	0		16		0	422
February	2020	0		406		406	0		16		0	422
March	2020	0		406		406	0		16		0	422
April	2020	0		406		406	0		16		0	422
May	2020	0		406		406	0		16		0	422
June	2020	0		406		406	0		16		0	422
July	2020	0		406		406	0		16		0	422
August	2020	0		406		406	0		16		0	422
September	2020	0		406		406	0		16		0	422
October	2020	0		406		406	0		16		0	422
November	2020	0		406		406	0		16		0	422
December	2020	0		406		406	0		16		0	422
January	2021	0		406		406	0		16		0	422
February	2021	0		406		406	0		16		0	422
March	2021	0		406		406	0		16		0	422
April	2021	0		406		406	0		16		0	422
May	2021	0		406		406	0		16		0	422
June	2021	0		406		406	0		16		0	422
July	2021	0		406		406	0		16		0	422
August	2021	0		406		406	0		16		0	422
September	2021	0		406		406	0		16		0	422
October	2021	0		406		406	0		16		0	422
November	2021	0		406		406	0		16		0	422
December	2021	0		406		406	0		16		0	422
January	2022	0		406		406	0		16		0	422
February	2022	0		406		406	0		16		0	422
March	2022	0		406		406	0		16		0	422
April	2022	0		406		406	0		16		0	422
May	2022	0		406		406	0		16		0	422
June	2022	0		406		406	0		16		0	422
July	2022	0		406		406	0		16		0	422
August	2022	0		406		406	0		16		0	422
September	2022	0		406		406	0		16		0	422
October	2022	0		406		406	0		16		0	422
November	2022	0		406		406	0		16		0	422
December	2022	0		406		406	0		16		0	422
January	2023	0		406		406	0		16		0	422
February	2023	0		406		406	0		16		0	422
March	2023	0		406		406	0		16		0	422
April	2023	0		406		406	0		16		0	422
May	2023	0		406		406	0		16		0	422
June	2023	0		406		406	0		16		0	422
July	2023	0		406		406	0		16		0	422
August	2023	0		406		406	0		16		0	422
September	2023	0		406		406	0		16		0	422
October	2023	0		406		406	0		16		0	422
November	2023	0		406		406	0		16		0	422
December	2023	0		406		406	0		16		0	422

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2019	15,170		3,646,820		3,646,820	0		57,449		26,365	3,704,269
February	2019	53,826		3,700,646		3,700,646	0		57,449		26,365	3,758,096
March	2019	208,348		3,908,994		3,908,994	15		57,464		26,380	3,966,458
April	2019	0		3,908,994		3,908,994	5,107		62,571		31,487	3,971,565
May	2019	0		3,908,994		3,908,994	0		62,571		31,487	3,971,565
June	2019	0		3,908,994		3,908,994	0		62,571		31,487	3,971,565
July	2019	0		3,908,994		3,908,994	0		62,571	0	31,487	3,971,565
August	2019	0		3,908,994		3,908,994	0		62,571	0	31,487	3,971,565
September	2019	0		3,908,994		3,908,994	1,803		64,374	1,803	33,290	3,973,368
October	2019	0		3,908,994		3,908,994	0		64,374	1,803	33,290	3,973,368
November	2019	0		3,908,994		3,908,994	0		64,374	1,803	1,803	3,973,368
December	2019	0		3,908,994		3,908,994	0		64,374	1,803	1,803	3,973,368
January	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2020	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2021	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2022	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2023	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW						NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA		VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP		VA	NC	System	VA	NC	System
January	2019	36											7,923		7,923	0		141	
February	2019	41		7,964		7,964	0		141		57	8,104	9,183	3,830	8,991	19.76	9.37	19.39	
March	2019	122		8,086		8,086	0		141		57	8,226	9,628	3,591	9,399	19.92	8.79	19.49	
April	2019	0		8,086		8,086	11		152		69	8,238	9,628	3,911	9,411	19.92	9.51	19.52	
May	2019	0		8,086		8,086	0		152		69	8,238	9,628	3,911	9,411	19.92	9.51	19.52	
June	2019	0		8,086		8,086	0		152		69	8,238	9,628	3,911	9,411	19.92	9.51	19.52	
July	2019	0		8,086		8,086	0		152	0	69	8,238	9,628	3,911	9,411	19.92	9.51	19.52	
August	2019	0		8,086		8,086	0		152	0	69	8,238	9,628	3,911	9,411	19.92	9.51	19.52	
September	2019	0		8,086		8,086	2		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2019	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2019	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
December	2019	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
January	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
February	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
March	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
April	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
May	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
June	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
July	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
August	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
September	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
December	2020	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
January	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
February	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
March	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
April	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
May	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
June	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
July	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
August	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
September	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
December	2021	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
January	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
February	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
March	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
April	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
May	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
June	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
July	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
August	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
September	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
December	2022	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
January	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
February	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
March	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
April	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
May	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
June	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
July	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
August	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
September	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
December	2023	0		8,086		8,086	0		154	2	70	8,240	9,628	4,023	9,416	19.92	9.62	19.52	

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Participation Program Participants										
Month	Year	VA				NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2024	0		406		406	0		16		0	422
February	2024	0		406		406	0		16		0	422
March	2024	0		406		406	0		16		0	422
April	2024	0		406		406	0		16		0	422
May	2024	0		406		406	0		16		0	422
June	2024	0		406		406	0		16		0	422
July	2024	0		406		406	0		16		0	422
August	2024	0		406		406	0		16		0	422
September	2024	0		406		406	0		16		0	422
October	2024	0		406		406	0		16		0	422
November	2024	0		406		406	0		16		0	422
December	2024	0		406		406	0		16		0	422
January	2025	0		406		406	0		16		0	422
February	2025	0		406		406	0		16		0	422
March	2025	0		406		406	0		16		0	422
April	2025	0		406		406	0		16		0	422
May	2025	0		406		406	0		16		0	422
June	2025	0		406		406	0		16		0	422
July	2025	0		406		406	0		16		0	422
August	2025	0		406		406	0		16		0	422
September	2025	0		406		406	0		16		0	422
October	2025	0		406		406	0		16		0	422
November	2025	0		406		406	0		16		0	422
December	2025	0		406		406	0		16		0	422
January	2026	0		406		406	0		16		0	422
February	2026	0		406		406	0		16		0	422
March	2026	0		406		406	0		16		0	422
April	2026	0		406		406	0		16		0	422
May	2026	0		406		406	0		16		0	422
June	2026	0		406		406	0		16		0	422
July	2026	0		406		406	0		16		0	422
August	2026	0		406		406	0		16		0	422
September	2026	0		406		406	0		16		0	422
October	2026	0		406		406	0		16		0	422
November	2026	0		406		406	0		16		0	422
December	2026	0		406		406	0		16		0	422
January	2027	0		406		406	0		16		0	422
February	2027	0		406		406	0		16		0	422
March	2027	0		406		406	0		16		0	422
April	2027	0		406		406	0		16		0	422
May	2027	0		406		406	0		16		0	422
June	2027	0		406		406	0		16		0	422
July	2027	0		406		406	0		16		0	422
August	2027	0		406		406	0		16		0	422
September	2027	0		406		406	0		16		0	422
October	2027	0		406		406	0		16		0	422
November	2027	0		406		406	0		16		0	422
December	2027	0		406		406	0		16		0	422
January	2028	0		406		406	0		16		0	422
February	2028	0		406		406	0		16		0	422
March	2028	0		406		406	0		16		0	422
April	2028	0		406		406	0		16		0	422
May	2028	0		406		406	0		16		0	422
June	2028	0		406		406	0		16		0	422
July	2028	0		406		406	0		16		0	422
August	2028	0		406		406	0		16		0	422
September	2028	0		406		406	0		16		0	422
October	2028	0		406		406	0		16		0	422
November	2028	0		406		406	0		16		0	422
December	2028	0		406		406	0		16		0	422



# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2024	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2025	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2026	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2027	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
January	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
December	2028	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW						NC				System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	VA Rate Reset Adj.	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC
January	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
February	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
March	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
April	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
May	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
June	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
July	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
August	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
September	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
October	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
November	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
December	2024	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
January	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
February	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
March	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
April	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
May	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
June	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
July	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
August	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
September	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
October	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
November	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
December	2025	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
January	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
February	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
March	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
April	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
May	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
June	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
July	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
August	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
September	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
October	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
November	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
December	2026	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
January	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
February	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
March	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
April	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
May	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
June	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
July	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
August	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
September	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
October	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
November	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
December	2027	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
January	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
February	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
March	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
April	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
May	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
June	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
July	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
August	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
September	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
October	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
November	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52
December	2028	0		8,086		8,086		0		154		2	8,240	9,628	4,023	9,416	19.92	9.62	19.52

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP	
		VA					NC						System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
January	2029	0		406		406	0		16		0		422
February	2029	0		406		406	0		16		0		422
March	2029	0		406		406	0		16		0		422
April	2029	0		406		406	0		16		0		422
May	2029	0		406		406	0		16		0		422
June	2029	0		406		406	0		16		0		422
July	2029	0		406		406	0		16		0		422
August	2029	0		406		406	0		16		0		422
September	2029	0		406		406	0		16		0		422
October	2029	0		406		406	0		16		0		422
November	2029	0	-1	405		405	0		16		0		421
December	2029	0	-5	400		400	0		16		0		416
January	2030	0	0	400		400	0		16		0		416
February	2030	0	-1	399		399	0		16		0		415
March	2030	0	0	399		399	0		16		0		415
April	2030	0	-16	383		383	0	-2	14		-2		397
May	2030	0	-34	349		349	0	-1	13		-3		362
June	2030	0	-16	333		333	0	0	13		-3		346
July	2030	0	-26	307		307	0	0	13		-3		320
August	2030	0	-2	305		305	0	0	13		-3		318
September	2030	0	-7	298		298	0	0	13		-3		311
October	2030	0	-5	293		293	0	0	13		-3		306
November	2030	0	-2	291		291	0	0	13		-3		304
December	2030	0	-5	286		286	0	0	13		-3		299
January	2031	0	-7	279		279	0	0	13		-3		292
February	2031	0	-9	270		270	0	0	13		-3		283
March	2031	0	-4	266		266	0	0	13		-3		279
April	2031	0	-6	260		260	0	-1	12		-4		272
May	2031	0	-6	254		254	0	-1	11		-5		265
June	2031	0	-12	242		242	0	-2	9		-7		251
July	2031	0	-7	235		235	0	0	9		-7		244
August	2031	0	-12	223		223	0	-1	8		-8		231
September	2031	0	-7	216		216	0	0	8		-8		224
October	2031	0	-6	210		210	0	0	8		-8		218
November	2031	0	-6	204		204	0	-1	7		-9		211
December	2031	0	-7	197		197	0	0	7		-9		204
January	2032	0	-9	188		188	0	0	7		-9		195
February	2032	0	-9	179		179	0	0	7		-9		186
March	2032	0	-1	178		178	0	0	7		-9		185
April	2032	0	-2	176		176	0	0	7		-9		183
May	2032	0	-13	163		163	0	-1	6		-10		169
June	2032	0	-23	140		140	0	-1	5		-11		145
July	2032	0	-12	128		128	0	0	5		-11		133
August	2032	0	-10	118		118	0	0	5		-11		123
September	2032	0	-8	110		110	0	-1	4		-12		114
October	2032	0	-5	105		105	0	0	4		-12		109
November	2032	0	-10	95		95	0	0	4		-12		99
December	2032	0	-1	94		94	0	0	4		-12		98
January	2033	0	0	94		94	0	0	4		-12		98
February	2033	0	-10	84		84	0	0	4		-12		88
March	2033	0	-3	81		81	0	-1	3		-13		84
April	2033	0	-7	74		74	0	-2	1		-15		75
May	2033	0	-5	69		69	0	0	1		-15		70
June	2033	0	-4	65		65	0	0	1		-15		66
July	2033	0	-10	55		55	0	0	1		-15		56
August	2033	0	-10	45		45	0	0	1		-15		46
September	2033	0	-10	35		35	0	0	1		-15		36
October	2033	0	-10	25		25	0	0	1		-15		26
November	2033	0	-4	21		21	0	0	1		-15		22
December	2033	0	-4	17		17	0	0	1		-15		18

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
February	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
March	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
April	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
May	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
June	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
July	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
August	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
September	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
October	2029	0		3,908,994		3,908,994	0		64,374		1,803	3,973,368
November	2029	0	-71,924	3,837,070		3,837,070	0		64,374		1,803	3,901,444
December	2029	0	-49,492	3,787,578		3,787,578	0		64,374		1,803	3,851,952
January	2030	0	0	3,787,578		3,787,578	0		64,374		1,803	3,851,952
February	2030	0	-2,702	3,784,876		3,784,876	0		64,374		1,803	3,849,250
March	2030	0	0	3,784,876		3,784,876	0		64,374		1,803	3,849,250
April	2030	0	-246,386	3,538,491		3,538,491	0	-3,163	61,211		-1,359	3,599,702
May	2030	0	-118,646	3,419,845		3,419,845	0	-4,433	56,779		-5,792	3,476,624
June	2030	0	-34,651	3,385,194		3,385,194	0	0	56,779		-5,792	3,441,972
July	2030	0	-167,760	3,217,434		3,217,434	0	0	56,779		-5,792	3,274,212
August	2030	0	-1,139	3,216,295		3,216,295	0	0	56,779		-5,792	3,273,073
September	2030	0	-190,538	3,025,757		3,025,757	0	0	56,779		-5,792	3,082,536
October	2030	0	-70,208	2,955,549		2,955,549	0	0	56,779		-5,792	3,012,327
November	2030	0	-52,583	2,902,966		2,902,966	0	0	56,779		-5,792	2,959,745
December	2030	0	-42,874	2,860,092		2,860,092	0	0	56,779		-5,792	2,916,870
January	2031	0	-29,693	2,830,399		2,830,399	0	0	56,779		-5,792	2,887,177
February	2031	0	-28,448	2,801,950		2,801,950	0	0	56,779		-5,792	2,858,729
March	2031	0	-24,484	2,777,466		2,777,466	0	0	56,779		-5,792	2,834,245
April	2031	0	-202,811	2,574,655		2,574,655	0	-915	55,864		-6,707	2,630,519
May	2031	0	-76,025	2,498,630		2,498,630	0	-5,128	50,736		-11,835	2,549,366
June	2031	0	-80,435	2,418,195		2,418,195	0	-17,446	33,290		-29,281	2,451,485
July	2031	0	-36,771	2,381,424		2,381,424	0	0	33,290		-29,281	2,414,714
August	2031	0	-212,255	2,169,169		2,169,169	0	-534	32,756		-29,814	2,201,925
September	2031	0	-255,469	1,913,700		1,913,700	0	0	32,756		-29,814	1,946,456
October	2031	0	-59,971	1,853,729		1,853,729	0	0	32,756		-29,814	1,886,486
November	2031	0	-60,419	1,793,311		1,793,311	0	-103	32,654		-29,917	1,825,965
December	2031	0	-70,495	1,722,816		1,722,816	0	0	32,654		-29,917	1,755,470
January	2032	0	-10,308	1,712,508		1,712,508	0	0	32,654		-29,917	1,745,162
February	2032	0	-47,495	1,665,013		1,665,013	0	0	32,654		-29,917	1,697,667
March	2032	0	-7,197	1,657,816		1,657,816	0	0	32,654		-29,917	1,690,470
April	2032	0	-17,141	1,640,676		1,640,676	0	0	32,654		-29,917	1,673,329
May	2032	0	-198,848	1,441,828		1,441,828	0	-6,169	26,485		-36,086	1,468,313
June	2032	0	-56,145	1,385,683		1,385,683	0	-35	26,450		-36,121	1,412,133
July	2032	0	-83,386	1,302,298		1,302,298	0	0	26,450		-36,121	1,328,747
August	2032	0	-12,913	1,289,384		1,289,384	0	0	26,450		-36,121	1,315,834
September	2032	0	-84,001	1,205,384		1,205,384	0	-710	25,739		-36,831	1,231,123
October	2032	0	-34,869	1,170,515		1,170,515	0	0	25,739		-36,831	1,196,254
November	2032	0	-44,982	1,125,533		1,125,533	0	0	25,739		-36,831	1,151,273
December	2032	0	-29,957	1,095,577		1,095,577	0	0	25,739		-36,831	1,121,316
January	2033	0	0	1,095,577		1,095,577	0	0	25,739		-36,831	1,121,316
February	2033	0	-60,354	1,035,222		1,035,222	0	0	25,739		-36,831	1,060,962
March	2033	0	-15,616	1,019,607		1,019,607	0	-6,336	19,403		-43,167	1,039,010
April	2033	0	-39,950	979,656		979,656	0	-12,478	6,925		-55,646	986,581
May	2033	0	-40,213	939,443		939,443	0	0	6,925		-55,646	946,368
June	2033	0	-33,973	905,470		905,470	0	0	6,925		-55,646	912,395
July	2033	0	-84,727	820,743		820,743	0	0	6,925		-55,646	827,668
August	2033	0	-339,770	480,973		480,973	0	0	6,925		-55,646	487,898
September	2033	0	-81,028	399,945		399,945	0	0	6,925		-55,646	406,870
October	2033	0	-65,140	334,805		334,805	0	0	6,925		-55,646	341,730
November	2033	0	-10,913	323,892		323,892	0	0	6,925		-55,646	330,817
December	2033	0	-46,548	277,344		277,344	0	0	6,925		-55,646	284,269

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
		Gross kW						NC					System	Gross kWh/Participant for IRP			Gross kW/Participant for IRP	
Month	Year	VA		VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired															
January	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
February	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
March	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
April	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
May	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
June	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
July	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
August	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
September	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
October	2029	0		8,086		8,086	0		154	2	8,240	9,628	4,023	9,416	19.92	9.62	19.52	
November	2029	0	-338	7,747		7,747	0		154	2	7,901	9,474	4,023	9,267	19.13	9.62	18.77	
December	2029	0	-172	7,576		7,576	0		154	2	7,729	9,469	4,023	9,260	18.94	9.62	18.58	
January	2030	0	0	7,576		7,576	0		154	2	7,729	9,469	4,023	9,260	18.94	9.62	18.58	
February	2030	0	-2	7,573		7,573	0		154	2	7,727	9,486	4,023	9,275	18.98	9.62	18.62	
March	2030	0	0	7,573		7,573	0		154	2	7,727	9,486	4,023	9,275	18.98	9.62	18.62	
April	2030	0	-622	6,952		6,952	0	-16	137	-15	7,089	9,239	4,372	9,067	18.15	9.82	17.86	
May	2030	0	-386	6,566		6,566	0	-2	135	-17	6,701	9,799	4,368	9,604	18.81	10.39	18.51	
June	2030	0	-294	6,271		6,271	0	0	135	-17	6,407	10,166	4,368	9,948	18.83	10.39	18.52	
July	2030	0	-417	5,854		5,854	0	0	135	-17	5,989	10,480	4,368	10,232	19.07	10.39	18.72	
August	2030	0	-15	5,840		5,840	0	0	135	-17	5,975	10,545	4,368	10,293	19.15	10.39	18.79	
September	2030	0	-558	5,282		5,282	0	0	135	-17	5,417	10,154	4,368	9,912	17.72	10.39	17.42	
October	2030	0	-270	5,011		5,011	0	0	135	-17	5,147	10,087	4,368	9,844	17.10	10.39	16.82	
November	2030	0	-64	4,948		4,948	0	0	135	-17	5,083	9,976	4,368	9,736	17.00	10.39	16.72	
December	2030	0	-149	4,799		4,799	0	0	135	-17	4,934	10,000	4,368	9,755	16.78	10.39	16.50	
January	2031	0	-83	4,716		4,716	0	0	135	-17	4,851	10,145	4,368	9,888	16.90	10.39	16.61	
February	2031	0	-219	4,497		4,497	0	0	135	-17	4,632	10,378	4,368	10,102	16.65	10.39	16.37	
March	2031	0	-77	4,420		4,420	0	0	135	-17	4,555	10,442	4,368	10,159	16.62	10.39	16.33	
April	2031	0	-270	4,150		4,150	0	0	135	-17	4,285	9,903	4,655	9,671	15.96	11.22	15.75	
May	2031	0	-49	4,101		4,101	0	-55	80	-72	4,181	9,837	4,612	9,620	16.15	7.27	15.78	
June	2031	0	-268	3,833		3,833	0	-10	70	-82	3,903	9,993	3,699	9,767	15.84	7.83	15.55	
July	2031	0	-137	3,696		3,696	0	0	70	-82	3,767	10,134	3,699	9,896	15.73	7.83	15.44	
August	2031	0	-292	3,404		3,404	0	0	70	-82	3,474	9,727	4,095	9,532	15.27	8.76	15.04	
September	2031	0	-182	3,222		3,222	0	0	70	-82	3,292	8,860	4,095	8,690	14.92	8.76	14.70	
October	2031	0	-145	3,077		3,077	0	0	70	-82	3,147	8,827	4,095	8,654	14.65	8.76	14.44	
November	2031	0	-174	2,903		2,903	0	0	70	-82	2,972	8,791	4,665	8,654	14.23	9.97	14.09	
December	2031	0	-188	2,714		2,714	0	0	70	-82	2,784	8,745	4,665	8,605	13.78	9.97	13.65	
January	2032	0	-25	2,689		2,689	0	0	70	-82	2,759	9,109	4,665	8,950	14.30	9.97	14.15	
February	2032	0	-67	2,622		2,622	0	0	70	-82	2,692	9,302	4,665	9,127	14.65	9.97	14.47	
March	2032	0	-12	2,610		2,610	0	0	70	-82	2,680	9,314	4,665	9,138	14.66	9.97	14.49	
April	2032	0	-7	2,603		2,603	0	0	70	-82	2,672	9,322	4,665	9,144	14.79	9.97	14.60	
May	2032	0	-1,471	1,132		1,132	0	27	97	-55	1,229	8,846	4,414	8,688	6.94	16.17	7.27	
June	2032	0	-36	1,096		1,096	0	0	97	-55	1,193	9,898	5,290	9,739	7.83	19.40	8.23	
July	2032	0	-85	1,011		1,011	0	0	97	-55	1,108	10,174	5,290	9,991	7.90	19.40	8.33	
August	2032	0	-8	1,004		1,004	0	0	97	-55	1,101	10,927	5,290	10,698	8.51	19.40	8.95	
September	2032	0	-133	871		871	0	1	98	-54	969	10,958	6,435	10,799	7.91	24.50	8.50	
October	2032	0	-48	823		823	0	0	98	-54	921	11,148	6,435	10,975	7.83	24.50	8.45	
November	2032	0	-41	782		782	0	0	98	-54	880	11,848	6,435	11,629	8.23	24.50	8.89	
December	2032	0	-14	768		768	0	0	98	-54	866	11,655	6,435	11,442	8.17	24.50	8.83	
January	2033	0	0	768		768	0	0	98	-54	866	11,655	6,435	11,442	8.17	24.50	8.83	
February	2033	0	-29	739		739	0	0	98	-54	837	12,324	6,435	12,056	8.80	24.50	9.51	
March	2033	0	-20	719		719	0	-5	93	-60	811	12,588	6,468	12,369	8.87	30.85	9.66	
April	2033	0	-16	703		703	0	-79	13	-139	716	13,239	6,925	13,154	9.50	13.32	9.55	
May	2033	0	-27	676		676	0	0	13	-139	689	13,615	6,925	13,520	9.79	13.32	9.84	
June	2033	0	-89	586		586	0	0	13	-139	600	13,930	6,925	13,824	9.02	13.32	9.09	
July	2033	0	-68	519		519	0	0	13	-139	532	14,923	6,925	14,780	9.43	13.32	9.50	
August	2033	0	-215	303		303	0	0	13	-139	317	10,688	6,925	10,606	6.74	13.32	6.89	
September	2033	0	-60	243		243	0	0	13	-139	257	11,427	6,925	11,302	6.95	13.32	7.13	
October	2033	0	-64	180		180	0	0	13	-139	193	13,392	6,925	13,143	7.19	13.32	7.42	
November	2033	0	43	223		223	0	0	13	-139	236	15,423	6,925	15,037	10.61	13.32	10.73	
December	2033	0	-24	199		199	0	0	13	-139	212	16,314	6,925	15,793	11.69	13.32	11.78	

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Participation										
Month	Year	Program Participants					System					
		VA		VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP				
VA Monthly New	VA Monthly Retired	VA Rate Reset Adj. [B]	NC Monthly New		NC Monthly Retired	NC Rate Reset Adj.						
January	2034	0	-4	13		13	0	0	1		-15	14
February	2034	0	-10	3		3	0	0	1		-15	4
March	2034	0	-3	0		0	0	-1	0		-16	0
April	2034	0	0	0		0	0	0	0		-16	0
May	2034	0	0	0		0	0	0	0		-16	0
June	2034	0	0	0		0	0	0	0		-16	0
July	2034	0	0	0		0	0	0	0		-16	0
August	2034	0	0	0		0	0	0	0		-16	0
September	2034	0	0	0		0	0	0	0		-16	0
October	2034	0	0	0		0	0	0	0		-16	0
November	2034	0	0	0		0	0	0	0		-16	0
December	2034	0	0	0		0	0	0	0		-16	0
January	2035	0	0	0		0	0	0	0		-16	0
February	2035	0	0	0		0	0	0	0		-16	0
March	2035	0	0	0		0	0	0	0		-16	0
April	2035	0	0	0		0	0	0	0		-16	0
May	2035	0	0	0		0	0	0	0		-16	0
June	2035	0	0	0		0	0	0	0		-16	0
July	2035	0	0	0		0	0	0	0		-16	0
August	2035	0	0	0		0	0	0	0		-16	0
September	2035	0	0	0		0	0	0	0		-16	0
October	2035	0	0	0		0	0	0	0		-16	0
November	2035	0	0	0		0	0	0	0		-16	0
December	2035	0	0	0		0	0	0	0		-16	0

Table 2. EM&V Data Incremental by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	6	6	-	-	6					
2015	114	114	3	3	117					
2016	89	89	6	2	95					
2017	103	103	3	3	106					
2018	77	77	3	3	80					
2019	17	17	1	-	18					

Table 3. EM&V Data Annualized by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	6	6	-	-	6					
2015	114	114	3	3	117					
2016	89	89	6	2	95					
2017	103	103	3	3	106					
2018	77	77	3	3	80					
2019	17	17	1	-	18					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
	Program Participants									
	VA	NC PPI	System							
2014		-								
2015		3								
2016		9								
2017		12								
2018		12								
2019		7								

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh					NC					System
		VA		VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
VA Monthly New	VA Monthly Retired											
January	2034	0	-15,170	262,174		262,174	0	0	6,925		-55,646	269,099
February	2034	0	-53,826	208,348		208,348	0	0	6,925		-55,646	215,273
March	2034	0	-208,348	0		0	0	-15	6,910		-55,661	6,910
April	2034	0	0	0		0	0	-5,107	1,803		-60,767	1,803
May	2034	0	0	0		0	0	0	1,803		-60,767	1,803
June	2034	0	0	0		0	0	0	1,803		-60,767	1,803
July	2034	0	0	0		0	0	0	1,803		-60,767	1,803
August	2034	0	0	0		0	0	0	1,803		-60,767	1,803
September	2034	0	0	0		0	0	-1,803	0		-62,571	0
October	2034	0	0	0		0	0	0	0		-62,571	0
November	2034	0	0	0		0	0	0	0		-62,571	0
December	2034	0	0	0		0	0	0	0		-62,571	0
January	2035	0	0	0		0	0	0	0		-62,571	0
February	2035	0	0	0		0	0	0	0		-62,571	0
March	2035	0	0	0		0	0	0	0		-62,571	0
April	2035	0	0	0		0	0	0	0		-62,571	0
May	2035	0	0	0		0	0	0	0		-62,571	0
June	2035	0	0	0		0	0	0	0		-62,571	0
July	2035	0	0	0		0	0	0	0		-62,571	0
August	2035	0	0	0		0	0	0	0		-62,571	0
September	2035	0	0	0		0	0	0	0		-62,571	0
October	2035	0	0	0		0	0	0	0		-62,571	0
November	2035	0	0	0		0	0	0	0		-62,571	0
December	2035	0	0	0		0	0	0	0		-62,571	0

Table 2. EM&V Data Incremental by Vintage Year										
	Gross Incremental Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	193,340	193,340	-	-	193,340					
2015	5,571,987	5,571,987	63,926	63,926	5,635,912					
2016	6,585,656	6,585,656	174,252	127,275	6,759,908					
2017	3,981,580	3,981,580	52,438	52,438	4,034,018					
2018	4,534,242	4,534,242	175,667	175,667	4,709,909					
2019	2,857,601	2,857,601	53,322	43,079	2,910,924					

Table 3. EM&V Data Annualized by Vintage Year										
	Gross Annualized Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	1,456,991	1,456,991	-	-	1,456,991					
2015	11,129,837	11,129,837	91,144	91,144	11,220,982					
2016	13,647,306	13,647,306	289,500	7,635	13,936,806					
2017	7,526,876	7,526,876	82,971	82,971	7,609,846					
2018	9,818,796	9,818,796	225,775	225,775	10,044,570					
2019	3,328,123	3,328,123	83,099	21,641	3,411,222					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
	Gross Energy (kWh) for PPI									
	VA	NC PPI	System							
2014		-								
2015		63,926								
2016		265,397								
2017		433,083								
2018		548,138								
2019		362,068								

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA					NC					System	VA	NC	System	VA	NC	System
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
January	2034		-36	163		163		0	13	-139	176	20,167	6,925	19,221	12.51	13.32	12.57	
February	2034		-41	122		122		0	13	-139	135	69,449	6,925	53,818	40.60	13.32	33.78	
March	2034		-122	0		0		0	13	-139	13	-	-	-	-	-	-	
April	2034		0	0		0		-11	2	-150	2	-	-	-	-	-	-	
May	2034		0	0		0		0	2	-150	2	-	-	-	-	-	-	
June	2034		0	0		0		0	2	-150	2	-	-	-	-	-	-	
July	2034		0	0		0		0	2	-150	2	-	-	-	-	-	-	
August	2034		0	0		0		0	2	-150	2	-	-	-	-	-	-	
September	2034		0	0		0		-2	0	-152	0	-	-	-	-	-	-	
October	2034		0	0		0		0	0	-152	0	-	-	-	-	-	-	
November	2034		0	0		0		0	0	-152	0	-	-	-	-	-	-	
December	2034		0	0		0		0	0	-152	0	-	-	-	-	-	-	
January	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
February	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
March	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
April	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
May	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
June	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
July	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
August	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
September	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
October	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
November	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	
December	2035		0	0		0		0	0	-152	0	-	-	-	-	-	-	

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014			510		510			-		-	510	32,223	-	32,223	85.02	-	85.02
2015			2,777		2,777			19		19	2,796	48,877	21,309	48,170	24.36	6.28	23.90
2016			2,084		2,084			65		1	2,150	73,996	29,042	71,157	23.42	10.88	22.63
2017			1,947		1,947			-28		-28	1,918	38,656	17,479	38,057	18.90	-9.40	18.10
2018			569		569			85		85	653	58,886	58,556	58,874	7.39	28.22	8.17
2019			199		199			13		2	212	168,094	53,322	161,718	11.69	13.32	11.78

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014			510		510			-		-	510	242,832	-	242,832	85.02	-	85.02
2015			2,777		2,777			19		19	2,796	97,630	30,381	95,906	24.36	6.28	23.90
2016			2,084		2,084			65		1	2,150	153,341	48,250	146,703	23.42	10.88	22.63
2017			1,947		1,947			-28		-28	1,918	73,076	27,657	71,791	18.90	-9.40	18.10
2018			569		569			85		85	653	127,517	75,258	125,557	7.39	28.22	8.17
2019			199		199			13		2	212	195,772	83,099	189,512	11.69	13.32	11.78

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
								NC PPI			System	VA	NC	System	VA	NC	System
2014								-									
2015								19					21,309			6.28	
2016								84					29,489			9.34	
2017								56					36,090			4.66	
2018								122					45,678			10.14	
2019								98					51,724			14.00	



# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	6	6	-	-	6					
2015	120	120	3	3	123					
2016	209	209	9	2	218					
2017	312	312	12	5	324					
2018	389	389	15	8	404					
2019	406	406	16	-	422					
2020	406	406	16	-	422					
2021	406	406	16	-	422					
2022	406	406	16	-	422					
2023	406	406	16	-	422					
2024	406	406	16	-	422					
2025	406	406	16	-	422					
2026	406	406	16	-	422					
2027	406	406	16	-	422					
2028	406	406	16	-	422					
2029	400	400	16	-	416					
2030	286	286	13	-	299					
2031	197	197	7	-	204					
2032	94	94	4	-	98					
2033	17	17	1	-	18					
2034	-	-	-	-	-					
2035	-	-	-	-	-					

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	6	6	-	-	6					
2015	120	120	3	3	123					
2016	209	209	9	2	218					
2017	312	312	12	5	324					
2018	389	389	15	8	404					
2019	406	406	16	-	422					
2020	406	406	16	-	422					
2021	406	406	16	-	422					
2022	406	406	16	-	422					
2023	406	406	16	-	422					
2024	406	406	16	-	422					
2025	406	406	16	-	422					
2026	406	406	16	-	422					
2027	406	406	16	-	422					
2028	406	406	16	-	422					
2029	406	406	16	-	422					
2030	406	406	16	-	422					
2031	406	406	16	-	422					
2032	406	406	16	-	422					
2033	406	406	16	-	422					
2034	406	406	16	-	422					
2035	406	406	16	-	422					

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Gross Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	193,340	193,340	-	-	193,340					
2015	7,028,978	7,028,978	63,926	63,926	7,092,904					
2016	19,172,484	19,172,484	265,397	203,228	19,437,881					
2017	30,215,714	30,215,714	433,083	60,073	30,648,797					
2018	38,295,252	38,295,252	639,282	266,273	38,934,534					
2019	46,437,407	46,437,407	742,712	306,729	47,180,119					
2020	46,907,929	46,907,929	772,489	21,641	47,680,418					
2021	46,907,929	46,907,929	772,489	21,641	47,680,418					
2022	46,907,929	46,907,929	772,489	21,641	47,680,418					
2023	46,907,929	46,907,929	772,489	21,641	47,680,418					
2024	46,907,929	46,907,929	772,489	21,641	47,680,418					
2025	46,907,929	46,907,929	772,489	21,641	47,680,418					
2026	46,907,929	46,907,929	772,489	21,641	47,680,418					
2027	46,907,929	46,907,929	772,489	21,641	47,680,418					
2028	46,907,929	46,907,929	772,489	21,641	47,680,418					
2029	46,714,589	46,714,589	772,489	21,641	47,487,078					
2030	39,878,951	39,878,951	708,563	-	40,587,515					
2031	27,735,445	27,735,445	507,092	-	28,242,537					
2032	16,692,215	16,692,215	339,406	-	17,031,621					
2033	8,612,677	8,612,677	133,207	-	8,745,884					
2034	470,522	470,522	29,777	-	500,299					
2035	-	-	-	-	-					

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Gross Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	193,340	193,340	-	-	193,340					
2015	7,222,318	7,222,318	63,926	63,926	7,286,244					
2016	26,394,802	26,394,802	329,322	203,228	26,724,125					
2017	56,610,517	56,610,517	762,405	60,073	57,372,922					
2018	94,905,769	94,905,769	1,401,687	266,273	96,307,456					
2019	141,343,176	141,343,176	2,144,399	306,729	143,487,576					
2020	188,251,105	188,251,105	2,916,889	21,641	191,167,994					
2021	235,159,034	235,159,034	3,689,378	21,641	238,848,412					
2022	282,066,963	282,066,963	4,461,867	21,641	286,528,830					
2023	328,974,892	328,974,892	5,234,356	21,641	334,209,248					
2024	375,882,821	375,882,821	6,006,845	21,641	381,889,666					
2025	422,790,750	422,790,750	6,779,334	21,641	429,570,084					
2026	469,698,679	469,698,679	7,551,823	21,641	477,250,502					
2027	516,606,608	516,606,608	8,324,313	21,641	524,930,920					
2028	563,514,537	563,514,537	9,096,802	21,641	572,611,338					
2029	610,229,126	610,229,126	9,869,291	21,641	620,098,416					
2030	650,108,077	650,108,077	10,577,854	21,641	660,685,931					
2031	677,843,521	677,843,521	11,084,947	21,641	688,928,468					
2032	694,535,736	694,535,736	11,424,353	21,641	705,960,089					
2033	703,148,413	703,148,413	11,557,560	21,641	714,705,973					
2034	703,618,934	703,618,934	11,587,337	21,641	715,206,271					
2035	703,618,934	703,618,934	11,587,337	21,641	715,206,271					

# Appendix C.6 Non-residential Heating and Cooling Efficiency Program 2014-2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014		510		510			-		-	510	32,223	-	32,223	85.02	-	85.02
2015		3,287		3,287			19		19	3,306	58,575	21,309	57,666	27.39	6.28	26.88
2016		5,371		5,371			84		1	5,455	91,734	29,489	89,165	25.70	9.34	25.03
2017		7,318		7,318			56		-	7,374	96,845	36,090	94,595	23.46	4.66	22.76
2018		7,887		7,887			141		57	8,027	98,445	42,619	96,373	20.27	9.37	19.87
2019		8,086		8,086			154		2	8,240	114,378	46,420	111,801	19.92	9.62	19.52
2020		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2021		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2022		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2023		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2024		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2025		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2026		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2027		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2028		8,086		8,086			154		2	8,240	115,537	48,281	112,987	19.92	9.62	19.52
2029		7,576		7,576			154		2	7,729	116,786	48,281	114,152	18.94	9.62	18.58
2030		4,799		4,799			135		-	4,934	139,437	54,505	135,744	16.78	10.39	16.50
2031		2,714		2,714			70		-	2,784	140,789	72,442	138,444	13.78	9.97	13.65
2032		768		768			98		-	866	177,577	84,852	173,792	8.17	24.50	8.83
2033		199		199			13		-	212	506,628	133,207	485,882	11.69	13.32	11.78
2034		-		-			-		-	-	-	-	-	-	-	-
2035		-		-			-		-	-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA IRP					NC IRP			System IRP	VA	NC	System	VA	NC	System
2014		510					-			510	32,223	-	32,223	85.02	-	85.02
2015		3,287					19			3,306	60,186	21,309	59,238	27.39	6.28	26.88
2016		5,371					84			5,455	126,291	36,591	122,588	25.70	9.34	25.03
2017		7,318					84			7,402	181,444	63,534	177,077	23.46	7.01	22.85
2018		7,887					141			8,027	243,974	93,446	238,385	20.27	9.37	19.87
2019		8,086					154			8,240	348,136	134,025	340,018	19.92	9.62	19.52
2020		8,086					154			8,240	463,673	182,306	453,005	19.92	9.62	19.52
2021		8,086					154			8,240	579,209	230,586	565,991	19.92	9.62	19.52
2022		8,086					154			8,240	694,746	278,867	678,978	19.92	9.62	19.52
2023		8,086					154			8,240	810,283	327,147	791,965	19.92	9.62	19.52
2024		8,086					154			8,240	925,820	375,428	904,952	19.92	9.62	19.52
2025		8,086					154			8,240	1,041,357	423,708	1,017,939	19.92	9.62	19.52
2026		8,086					154			8,240	1,156,893	471,989	1,130,925	19.92	9.62	19.52
2027		8,086					154			8,240	1,272,430	520,270	1,243,912	19.92	9.62	19.52
2028		8,086					154			8,240	1,387,967	568,550	1,356,899	19.92	9.62	19.52
2029		8,086					154			8,240	1,503,027	616,831	1,469,428	19.92	9.62	19.52
2030		8,086					154			8,240	1,601,251	661,116	1,565,606	19.92	9.62	19.52
2031		8,086					154			8,240	1,669,565	692,809	1,632,532	19.92	9.62	19.52
2032		8,086					154			8,240	1,710,679	714,022	1,672,891	19.92	9.62	19.52
2033		8,086					154			8,240	1,731,893	722,347	1,693,616	19.92	9.62	19.52
2034		8,086					154			8,240	1,733,052	724,209	1,694,802	19.92	9.62	19.52
2035		8,086					154			8,240	1,733,052	724,209	1,694,802	19.92	9.62	19.52

# Appendix C.7 Non-residential Window Film Program 2014-2019

<b>PROGRAM:</b> Non-residential Window Film
<b>DSM Phase III Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 10.0 years

Table 1		Participation										
		Program Participants										System
Month	Year	VA				NC				System		
		VA Monthly New [A]	VA Monthly Retired [-A]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A]	NC Monthly New [C]	NC Monthly Retired [-C]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C]	System Cum for IRP E+G
January	2014	0		0		0		0		0		0
February	2014	0		0		0		0		0		0
March	2014	0		0		0		0		0		0
April	2014	0		0		0		0		0		0
May	2014	0		0		0		0		0		0
June	2014	0		0		0		0		0		0
July	2014	0		0		0		0		0		0
August	2014	0		0		0		0		0		0
September	2014	0		0		0		0		0		0
October	2014	1		1		1		1		1		1
November	2014	0		1		1		1		1		1
December	2014	2		3		3		3		3		3
January	2015	2		5		5		5		5		5
February	2015	3		8		8		8		8		8
March	2015	1		9		9		9		9		9
April	2015	2		11		11		11		11		11
May	2015	2		13		13		13		13		13
June	2015	3		16		16		16		16		16
July	2015	1		17		17		17		17		17
August	2015	2		19		19		19		19		19
September	2015	1		20		20		20		20		20
October	2015	2		22		22		22		22		22
November	2015	1		23		23		23		23		23
December	2015	2		25		25		25		25		25
January	2016	4		29		29	0	29	0	29	0	29
February	2016	4		33		33	0	33	0	33	0	33
March	2016	7		40		40	0	40	0	40	0	40
April	2016	7		47		47	0	47	0	47	0	47
May	2016	6		53		53	0	53	0	53	0	53
June	2016	4		57		57	0	57	0	57	0	57
July	2016	3		60		60	0	60	0	60	0	60
August	2016	11		71		71	0	71	0	71	0	71
September	2016	10		81		81	0	81	0	81	0	81
October	2016	7		88		88	0	88	0	88	0	88
November	2016	6		94		94	0	94	0	94	0	94
December	2016	1		95		95	0	95	0	95	0	95
January	2017	4		99		99	0	99	0	99	0	99
February	2017	3		102		102	0	102	0	102	0	102
March	2017	4		106		106	0	106	0	106	0	106
April	2017	1		107		107	0	107	0	107	0	107
May	2017	7		114		114	0	114	0	114	0	114
June	2017	1		115		115	0	115	0	115	0	115
July	2017	3		118		118	0	118	0	118	0	118
August	2017	15		133		133	0	133	0	133	0	133
September	2017	7		140		140	0	140	0	140	0	140
October	2017	8		148		148	0	148	0	148	0	148
November	2017	6		154		154	0	154	0	154	0	154
December	2017	0		154		154	0	154	0	154	0	154
January	2018	3		157		157	0	157	0	157	0	157
February	2018	10		167		167	0	167	0	167	0	167
March	2018	2		169		169	0	169	0	169	0	169
April	2018	4		173		173	0	173	0	173	0	173
May	2018	12		185		185	0	185	0	185	0	185
June	2018	6		191		191	0	191	0	191	0	191
July	2018	3		194		194	0	194	0	194	0	194
August	2018	9		203		203	1	203	1	203	1	204
September	2018	10		213		213	0	213	1	213	1	214
October	2018	12		225		225	0	225	1	225	1	226
November	2018	6		231		231	0	231	1	231	1	232
December	2018	14		245		245	0	245	1	245	1	246

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Energy Savings										
		Gross kWh										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2014	0		0		0						0
February	2014	0		0		0						0
March	2014	0		0		0						0
April	2014	0		0		0						0
May	2014	0		0		0						0
June	2014	0		0		0						0
July	2014	0		0		0						0
August	2014	0		0		0						0
September	2014	0		0		0						0
October	2014	222		222		222						222
November	2014	0		222		222						222
December	2014	95,818		96,040		96,040						96,040
January	2015	10		96,050		96,050						96,050
February	2015	181		96,231		96,231						96,231
March	2015	44		96,275		96,275						96,275
April	2015	255,181		351,456		351,456						351,456
May	2015	30		351,486		351,486						351,486
June	2015	330		351,816		351,816						351,816
July	2015	-2		351,815		351,815						351,815
August	2015	141		351,955		351,955						351,955
September	2015	0		351,955		351,955						351,955
October	2015	367		352,322		352,322						352,322
November	2015	165		352,487		352,487						352,487
December	2015	37		352,524		352,524						352,524
January	2016	14,147		366,671		366,671	0		0		0	366,671
February	2016	764		367,436		367,436	0		0		0	367,436
March	2016	2,385		369,821		369,821	0		0		0	369,821
April	2016	2,110		371,931		371,931	0		0		0	371,931
May	2016	447		372,378		372,378	0		0		0	372,378
June	2016	353		372,732		372,732	0		0		0	372,732
July	2016	3,036		375,767		375,767	0		0	0	0	375,767
August	2016	1,644		377,411		377,411	0		0	0	0	377,411
September	2016	4,165		381,576		381,576	0		0	0	0	381,576
October	2016	2,087		383,663		383,663	0		0	0	0	383,663
November	2016	7,577		391,240		391,240	0		0	0	0	391,240
December	2016	17		391,257		391,257	0		0	0	0	391,257
January	2017	2,151		393,408		393,408	0		0		0	393,408
February	2017	15,587		408,995		408,995	0		0		0	408,995
March	2017	9,920		418,916		418,916	0		0		0	418,916
April	2017	12,845		431,760		431,760	0		0		0	431,760
May	2017	996		432,756		432,756	0		0		0	432,756
June	2017	3,250		436,006		436,006	0		0		0	436,006
July	2017	16,139		452,145		452,145	0		0		0	452,145
August	2017	40,373		492,518		492,518	0		0		0	492,518
September	2017	1,566		494,084		494,084	0		0		0	494,084
October	2017	6,398		500,482		500,482	0		0		0	500,482
November	2017	35,200		535,682		535,682	0		0		0	535,682
December	2017	130		535,812		535,812	0		0		0	535,812
January	2018	5,018		540,830		540,830	0		0		0	540,830
February	2018	-31		540,799		540,799	0		0		0	540,799
March	2018	429		541,228		541,228	0		0		0	541,228
April	2018	906		542,134		542,134	0		0		0	542,134
May	2018	333		542,467		542,467	0		0		0	542,467
June	2018	736		543,203		543,203	0		0		0	543,203
July	2018	274		543,476		543,476	0		0		0	543,476
August	2018	1,834		545,310		545,310	376		376		376	545,687
September	2018	1,432		546,743		546,743	0		376		376	547,119
October	2018	988		547,731		547,731	0		376		376	548,107
November	2018	790		548,520		548,520	0		376		376	548,897
December	2018	1,538		550,059		550,059	0		376		376	550,435

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA				NC				System		VA	NC	System	VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2014	0		0		0					0	-	-	-	-	-	-	-
February	2014	0		0		0					0	-	-	-	-	-	-	-
March	2014	0		0		0					0	-	-	-	-	-	-	-
April	2014	0		0		0					0	-	-	-	-	-	-	-
May	2014	0		0		0					0	-	-	-	-	-	-	-
June	2014	0		0		0					0	-	-	-	-	-	-	-
July	2014	0		0		0					0	-	-	-	-	-	-	-
August	2014	0		0		0					0	-	-	-	-	-	-	-
September	2014	0		0		0					0	-	-	-	-	-	-	-
October	2014	1		1		1					1	222		222	0.80		0.80	
November	2014	0		1		1					1	222		222	0.80		0.80	
December	2014	232		233		233					233	32,013		32,013	77.71		77.71	
January	2015	0		233		233					233	19,210		19,210	46.65		46.65	
February	2015	1		234		234					234	12,029		12,029	29.28		29.28	
March	2015	0		234		234					234	10,697		10,697	26.05		26.05	
April	2015	621		855		855					855	31,951		31,951	77.75		77.75	
May	2015	0		856		856					856	27,037		27,037	65.81		65.81	
June	2015	1		857		857					857	21,989		21,989	53.55		53.55	
July	2015	0		857		857					857	20,695		20,695	50.41		50.41	
August	2015	1		857		857					857	18,524		18,524	45.13		45.13	
September	2015	0		857		857					857	17,598		17,598	42.87		42.87	
October	2015	2		859		859					859	16,015		16,015	39.05		39.05	
November	2015	0		860		860					860	15,326		15,326	37.37		37.37	
December	2015	0		860		860					860	14,101		14,101	34.39		34.39	
January	2016	57		917		917	0		0	0	917	12,644		12,644	31.61		31.61	
February	2016	3		919		919	0		0	0	919	11,134		11,134	27.86		27.86	
March	2016	13		933		933	0		0	0	933	9,246		9,246	23.31		23.31	
April	2016	7		940		940	0		0	0	940	7,913		7,913	20.00		20.00	
May	2016	2		942		942	0		0	0	942	7,026		7,026	17.77		17.77	
June	2016	1		942		942	0		0	0	942	6,539		6,539	16.53		16.53	
July	2016	9		951		951	0		0	0	951	6,263		6,263	15.85		15.85	
August	2016	5		957		957	0		0	0	957	5,316		5,316	13.47		13.47	
September	2016	12		968		968	0		0	0	968	4,711		4,711	11.96		11.96	
October	2016	7		976		976	0		0	0	976	4,360		4,360	11.09		11.09	
November	2016	23		999		999	0		0	0	999	4,162		4,162	10.63		10.63	
December	2016	0		999		999	0		0	0	999	4,118		4,118	10.52		10.52	
January	2017	9		1,009		1,009	0		0	0	1,009	3,974		3,974	10.19		10.19	
February	2017	54		1,062		1,062	0		0	0	1,062	4,010		4,010	10.41		10.41	
March	2017	32		1,094		1,094	0		0	0	1,094	3,952		3,952	10.32		10.32	
April	2017	42		1,136		1,136	0		0	0	1,136	4,035		4,035	10.62		10.62	
May	2017	3		1,140		1,140	0		0	0	1,140	3,796		3,796	10.00		10.00	
June	2017	16		1,156		1,156	0		0	0	1,156	3,791		3,791	10.05		10.05	
July	2017	55		1,210		1,210	0		0	0	1,210	3,832		3,832	10.26		10.26	
August	2017	116		1,326		1,326	0		0	0	1,326	3,703		3,703	9.97		9.97	
September	2017	7		1,333		1,333	0		0	0	1,333	3,529		3,529	9.52		9.52	
October	2017	29		1,362		1,362	0		0	0	1,362	3,382		3,382	9.20		9.20	
November	2017	109		1,470		1,470	0		0	0	1,470	3,478		3,478	9.55		9.55	
December	2017	1		1,471		1,471	0		0	0	1,471	3,479		3,479	9.55		9.55	
January	2018	19		1,490		1,490	0		0	0	1,490	3,445		3,445	9.49		9.49	
February	2018	1		1,491		1,491	0		0	0	1,491	3,238		3,238	8.93		8.93	
March	2018	1		1,492		1,492	0		0	0	1,492	3,203		3,203	8.83		8.83	
April	2018	3		1,495		1,495	0		0	0	1,495	3,134		3,134	8.64		8.64	
May	2018	3		1,498		1,498	0		0	0	1,498	2,932		2,932	8.10		8.10	
June	2018	3		1,501		1,501	0		0	0	1,501	2,844		2,844	7.86		7.86	
July	2018	2		1,503		1,503	0		0	0	1,503	2,801		2,801	7.74		7.74	
August	2018	7		1,510		1,510	1		1	1	1,510	2,686	376	2,675	7.44	0.74	7.40	
September	2018	7		1,517		1,517	0		1	1	1,518	2,567	376	2,557	7.12	0.74	7.09	
October	2018	4		1,521		1,521	0		1	1	1,521	2,434	376	2,425	6.76	0.74	6.73	
November	2018	3		1,524		1,524	0		1	1	1,525	2,375	376	2,366	6.60	0.74	6.57	
December	2018	4		1,528		1,528	0		1	1	1,529	2,245	376	2,238	6.24	0.74	6.22	

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP	
		VA					NC						System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
January	2019	4		249		249	0		1		1	250	
February	2019	4		253		253	0		1		1	254	
March	2019	0		253		253	0		1		1	254	
April	2019	0		253		253	0		1		1	254	
May	2019	0		253		253	0		1		1	254	
June	2019	0		253		253	0		1		1	254	
July	2019	0		253		253	0		1	0	1	254	
August	2019	0		253		253	0		1	0	1	254	
September	2019	0		253		253	0		1	0	1	254	
October	2019	0		253		253	0		1	0	1	254	
November	2019	0		253		253	0		1	0	1	254	
December	2019	0		253		253	0		1	0	1	254	
January	2020	0		253		253	0		1		0	254	
February	2020	0		253		253	0		1		0	254	
March	2020	0		253		253	0		1		0	254	
April	2020	0		253		253	0		1		0	254	
May	2020	0		253		253	0		1		0	254	
June	2020	0		253		253	0		1		0	254	
July	2020	0		253		253	0		1		0	254	
August	2020	0		253		253	0		1		0	254	
September	2020	0		253		253	0		1		0	254	
October	2020	0		253		253	0		1		0	254	
November	2020	0		253		253	0		1		0	254	
December	2020	0		253		253	0		1		0	254	
January	2021	0		253		253	0		1		0	254	
February	2021	0		253		253	0		1		0	254	
March	2021	0		253		253	0		1		0	254	
April	2021	0		253		253	0		1		0	254	
May	2021	0		253		253	0		1		0	254	
June	2021	0		253		253	0		1		0	254	
July	2021	0		253		253	0		1		0	254	
August	2021	0		253		253	0		1		0	254	
September	2021	0		253		253	0		1		0	254	
October	2021	0		253		253	0		1		0	254	
November	2021	0		253		253	0		1		0	254	
December	2021	0		253		253	0		1		0	254	
January	2022	0		253		253	0		1		0	254	
February	2022	0		253		253	0		1		0	254	
March	2022	0		253		253	0		1		0	254	
April	2022	0		253		253	0		1		0	254	
May	2022	0		253		253	0		1		0	254	
June	2022	0		253		253	0		1		0	254	
July	2022	0		253		253	0		1		0	254	
August	2022	0		253		253	0		1		0	254	
September	2022	0		253		253	0		1		0	254	
October	2022	0		253		253	0		1		0	254	
November	2022	0		253		253	0		1		0	254	
December	2022	0		253		253	0		1		0	254	
January	2023	0		253		253	0		1		0	254	
February	2023	0		253		253	0		1		0	254	
March	2023	0		253		253	0		1		0	254	
April	2023	0		253		253	0		1		0	254	
May	2023	0		253		253	0		1		0	254	
June	2023	0		253		253	0		1		0	254	
July	2023	0		253		253	0		1		0	254	
August	2023	0		253		253	0		1		0	254	
September	2023	0		253		253	0		1		0	254	
October	2023	0		253		253	0		1		0	254	
November	2023	0		253		253	0		1		0	254	
December	2023	0		253		253	0		1		0	254	

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA				NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2019	208		550,266		550,266	0		376		376	550,643
February	2019	389		550,656		550,656	0		376		376	551,032
March	2019	0		550,656		550,656	0		376		376	551,032
April	2019	0		550,656		550,656	0		376		376	551,032
May	2019	0		550,656		550,656	0		376		376	551,032
June	2019	0		550,656		550,656	0		376		376	551,032
July	2019	0		550,656		550,656	0		376	0	376	551,032
August	2019	0		550,656		550,656	0		376	0	376	551,032
September	2019	0		550,656		550,656	0		376	0	376	551,032
October	2019	0		550,656		550,656	0		376	0	376	551,032
November	2019	0		550,656		550,656	0		376	0	376	551,032
December	2019	0		550,656		550,656	0		376	0	376	551,032
January	2020	0		550,656		550,656			376		0	551,032
February	2020	0		550,656		550,656			376		0	551,032
March	2020	0		550,656		550,656			376		0	551,032
April	2020	0		550,656		550,656			376		0	551,032
May	2020	0		550,656		550,656			376		0	551,032
June	2020	0		550,656		550,656			376		0	551,032
July	2020	0		550,656		550,656			376		0	551,032
August	2020	0		550,656		550,656			376		0	551,032
September	2020	0		550,656		550,656			376		0	551,032
October	2020	0		550,656		550,656			376		0	551,032
November	2020	0		550,656		550,656			376		0	551,032
December	2020	0		550,656		550,656			376		0	551,032
January	2021	0		550,656		550,656			376		0	551,032
February	2021	0		550,656		550,656			376		0	551,032
March	2021	0		550,656		550,656			376		0	551,032
April	2021	0		550,656		550,656			376		0	551,032
May	2021	0		550,656		550,656			376		0	551,032
June	2021	0		550,656		550,656			376		0	551,032
July	2021	0		550,656		550,656			376		0	551,032
August	2021	0		550,656		550,656			376		0	551,032
September	2021	0		550,656		550,656			376		0	551,032
October	2021	0		550,656		550,656			376		0	551,032
November	2021	0		550,656		550,656			376		0	551,032
December	2021	0		550,656		550,656			376		0	551,032
January	2022	0		550,656		550,656			376		0	551,032
February	2022	0		550,656		550,656			376		0	551,032
March	2022	0		550,656		550,656			376		0	551,032
April	2022	0		550,656		550,656			376		0	551,032
May	2022	0		550,656		550,656			376		0	551,032
June	2022	0		550,656		550,656			376		0	551,032
July	2022	0		550,656		550,656			376		0	551,032
August	2022	0		550,656		550,656			376		0	551,032
September	2022	0		550,656		550,656			376		0	551,032
October	2022	0		550,656		550,656			376		0	551,032
November	2022	0		550,656		550,656			376		0	551,032
December	2022	0		550,656		550,656			376		0	551,032
January	2023	0		550,656		550,656			376		0	551,032
February	2023	0		550,656		550,656			376		0	551,032
March	2023	0		550,656		550,656			376		0	551,032
April	2023	0		550,656		550,656			376		0	551,032
May	2023	0		550,656		550,656			376		0	551,032
June	2023	0		550,656		550,656			376		0	551,032
July	2023	0		550,656		550,656			376		0	551,032
August	2023	0		550,656		550,656			376		0	551,032
September	2023	0		550,656		550,656			376		0	551,032
October	2023	0		550,656		550,656			376		0	551,032
November	2023	0		550,656		550,656			376		0	551,032
December	2023	0		550,656		550,656			376		0	551,032



# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2019	1		1,529		1,529	0		1		1,530	2,210	376	2,203	6.14	0.74	6.12	
February	2019	1		1,530		1,530	0		1		1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2019	0		1,530		1,530	0		1		1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2019	0		1,530		1,530	0		1		1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2019	0		1,530		1,530	0		1		1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2019	0		1,530		1,530	0		1		1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
November	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
December	2019	0		1,530		1,530	0		1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
January	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
February	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
November	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
December	2020	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
January	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
February	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
November	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
December	2021	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
January	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
February	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
November	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
December	2022	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
January	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
February	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
November	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	
December	2023	0		1,530		1,530			1		1,531	2,177	376	2,169	6.05	0.74	6.03	

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Participation Program Participants										
Month	Year	VA				NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2024	0		253		253	0		1		0	254
February	2024	0		253		253	0		1		0	254
March	2024	0		253		253	0		1		0	254
April	2024	0		253		253	0		1		0	254
May	2024	0		253		253	0		1		0	254
June	2024	0		253		253	0		1		0	254
July	2024	0		253		253	0		1		0	254
August	2024	0		253		253	0		1		0	254
September	2024	0		253		253	0		1		0	254
October	2024	0	-1	252		252	0		1		0	253
November	2024	0	0	252		252	0		1		0	253
December	2024	0	-2	250		250	0		1		0	251
January	2025	0	-2	248		248	0		1		0	249
February	2025	0	-3	245		245	0		1		0	246
March	2025	0	-1	244		244	0		1		0	245
April	2025	0	-2	242		242	0		1		0	243
May	2025	0	-2	240		240	0		1		0	241
June	2025	0	-3	237		237	0		1		0	238
July	2025	0	-1	236		236	0		1		0	237
August	2025	0	-2	234		234	0		1		0	235
September	2025	0	-1	233		233	0		1		0	234
October	2025	0	-2	231		231	0		1		0	232
November	2025	0	-1	230		230	0		1		0	231
December	2025	0	-2	228		228	0		1		0	229
January	2026	0	-4	224		224	0		1		0	225
February	2026	0	-4	220		220	0		1		0	221
March	2026	0	-7	213		213	0		1		0	214
April	2026	0	-7	206		206	0		1		0	207
May	2026	0	-6	200		200	0		1		0	201
June	2026	0	-4	196		196	0		1		0	197
July	2026	0	-3	193		193	0		1		0	194
August	2026	0	-11	182		182	0		1		0	183
September	2026	0	-10	172		172	0		1		0	173
October	2026	0	-7	165		165	0		1		0	166
November	2026	0	-6	159		159	0		1		0	160
December	2026	0	-1	158		158	0		1		0	159
January	2027	0	-4	154		154	0		1		0	155
February	2027	0	-3	151		151	0		1		0	152
March	2027	0	-4	147		147	0		1		0	148
April	2027	0	-1	146		146	0		1		0	147
May	2027	0	-7	139		139	0		1		0	140
June	2027	0	-1	138		138	0		1		0	139
July	2027	0	-3	135		135	0		1		0	136
August	2027	0	-15	120		120	0		1		0	121
September	2027	0	-7	113		113	0		1		0	114
October	2027	0	-8	105		105	0		1		0	106
November	2027	0	-6	99		99	0		1		0	100
December	2027	0	0	99		99	0		1		0	100
January	2028	0	-3	96		96	0		1		0	97
February	2028	0	-10	86		86	0		1		0	87
March	2028	0	-2	84		84	0		1		0	85
April	2028	0	-4	80		80	0		1		0	81
May	2028	0	-12	68		68	0		1		0	69
June	2028	0	-6	62		62	0		1		0	63
July	2028	0	-3	59		59	0		1		0	60
August	2028	0	-9	50		50	0	-1	0		-1	50
September	2028	0	-10	40		40	0	0	0		-1	40
October	2028	0	-12	28		28	0	0	0		-1	28
November	2028	0	-6	22		22	0	0	0		-1	22
December	2028	0	-14	8		8	0	0	0		-1	8

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2024	0		550,656		550,656			376		0	551,032
February	2024	0		550,656		550,656			376		0	551,032
March	2024	0		550,656		550,656			376		0	551,032
April	2024	0		550,656		550,656			376		0	551,032
May	2024	0		550,656		550,656			376		0	551,032
June	2024	0		550,656		550,656			376		0	551,032
July	2024	0		550,656		550,656			376		0	551,032
August	2024	0		550,656		550,656			376		0	551,032
September	2024	0		550,656		550,656			376		0	551,032
October	2024	0	-222	550,434		550,434			376		0	550,810
November	2024	0	0	550,434		550,434			376		0	550,810
December	2024	0	-95,818	454,616		454,616			376		0	454,992
January	2025	0	-10	454,606		454,606			376		0	454,982
February	2025	0	-181	454,425		454,425			376		0	454,801
March	2025	0	-44	454,381		454,381			376		0	454,757
April	2025	0	-255,181	199,200		199,200			376		0	199,576
May	2025	0	-30	199,169		199,169			376		0	199,546
June	2025	0	-330	198,839		198,839			376		0	199,216
July	2025	0	2	198,841		198,841			376		0	199,217
August	2025	0	-141	198,700		198,700			376		0	199,077
September	2025	0	0	198,700		198,700			376		0	199,077
October	2025	0	-367	198,333		198,333			376		0	198,710
November	2025	0	-165	198,168		198,168			376		0	198,545
December	2025	0	-37	198,132		198,132			376		0	198,508
January	2026	0	-14,147	183,984		183,984			376		0	184,361
February	2026	0	-764	183,220		183,220			376		0	183,596
March	2026	0	-2,385	180,835		180,835			376		0	181,211
April	2026	0	-2,110	178,725		178,725			376		0	179,101
May	2026	0	-447	178,277		178,277			376		0	178,654
June	2026	0	-353	177,924		177,924			376		0	178,300
July	2026	0	-3,036	174,888		174,888			376		0	175,265
August	2026	0	-1,644	173,244		173,244			376		0	173,621
September	2026	0	-4,165	169,080		169,080			376		0	169,456
October	2026	0	-2,087	166,993		166,993			376		0	167,369
November	2026	0	-7,577	159,416		159,416			376		0	159,792
December	2026	0	-17	159,399		159,399			376		0	159,775
January	2027	0	-2,151	157,247		157,247			376		0	157,624
February	2027	0	-15,587	141,661		141,661			376		0	142,037
March	2027	0	-9,920	131,740		131,740			376		0	132,116
April	2027	0	-12,845	118,895		118,895			376		0	119,272
May	2027	0	-996	117,900		117,900			376		0	118,276
June	2027	0	-3,250	114,650		114,650			376		0	115,026
July	2027	0	-16,139	98,511		98,511			376		0	98,887
August	2027	0	-40,373	58,137		58,137			376		0	58,514
September	2027	0	-1,566	56,571		56,571			376		0	56,948
October	2027	0	-6,398	50,173		50,173			376		0	50,550
November	2027	0	-35,200	14,973		14,973			376		0	15,350
December	2027	0	-130	14,843		14,843			376		0	15,220
January	2028	0	-5,018	9,825		9,825			376		0	10,202
February	2028	0	31	9,857		9,857			376		0	10,233
March	2028	0	-429	9,428		9,428			376		0	9,804
April	2028	0	-906	8,521		8,521			376		0	8,898
May	2028	0	-333	8,189		8,189			376		0	8,565
June	2028	0	-736	7,453		7,453			376		0	7,829
July	2028	0	-274	7,179		7,179			376		0	7,556
August	2028	0	-1,834	5,345		5,345		-376	0		-376	5,345
September	2028	0	-1,432	3,913		3,913		0	0		-376	3,913
October	2028	0	-988	2,925		2,925		0	0		-376	2,925
November	2028	0	-790	2,135		2,135		0	0		-376	2,135
December	2028	0	-1,538	597		597		0	0		-376	597

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
February	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
March	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
April	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
May	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
June	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
July	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
August	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
September	2024	0		1,530		1,530			1	0	1,531	2,177	376	2,169	6.05	0.74	6.03	
October	2024	0	-1	1,530		1,530			1	0	1,530	2,184	376	2,177	6.07	0.74	6.05	
November	2024	0	0	1,530		1,530			1	0	1,530	2,184	376	2,177	6.07	0.74	6.05	
December	2024	0	-232	1,297		1,297			1	0	1,298	1,818	376	1,813	5.19	0.74	5.17	
January	2025	0	0	1,297		1,297			1	0	1,298	1,833	376	1,827	5.23	0.74	5.21	
February	2025	0	-1	1,296		1,296			1	0	1,297	1,855	376	1,849	5.29	0.74	5.27	
March	2025	0	0	1,296		1,296			1	0	1,297	1,862	376	1,856	5.31	0.74	5.29	
April	2025	0	-621	675		675			1	0	676	823	376	821	2.79	0.74	2.78	
May	2025	0	0	675		675			1	0	676	830	376	828	2.81	0.74	2.80	
June	2025	0	-1	674		674			1	0	674	839	376	837	2.84	0.74	2.83	
July	2025	0	0	674		674			1	0	674	843	376	841	2.85	0.74	2.85	
August	2025	0	-1	673		673			1	0	674	849	376	847	2.88	0.74	2.87	
September	2025	0	0	673		673			1	0	674	853	376	851	2.89	0.74	2.88	
October	2025	0	-2	671		671			1	0	672	859	376	857	2.91	0.74	2.90	
November	2025	0	0	671		671			1	0	672	862	376	860	2.92	0.74	2.91	
December	2025	0	0	671		671			1	0	672	869	376	867	2.94	0.74	2.93	
January	2026	0	-57	614		614			1	0	614	821	376	819	2.74	0.74	2.73	
February	2026	0	-3	611		611			1	0	612	833	376	831	2.78	0.74	2.77	
March	2026	0	-13	598		598			1	0	599	849	376	847	2.81	0.74	2.80	
April	2026	0	-7	590		590			1	0	591	868	376	865	2.87	0.74	2.86	
May	2026	0	-2	589		589			1	0	590	891	376	889	2.94	0.74	2.93	
June	2026	0	-1	588		588			1	0	589	908	376	905	3.00	0.74	2.99	
July	2026	0	-9	579		579			1	0	580	906	376	903	3.00	0.74	2.99	
August	2026	0	-5	574		574			1	0	575	952	376	949	3.15	0.74	3.14	
September	2026	0	-12	562		562			1	0	563	983	376	980	3.27	0.74	3.25	
October	2026	0	-7	555		555			1	0	555	1,012	376	1,008	3.36	0.74	3.35	
November	2026	0	-23	531		531			1	0	532	1,003	376	999	3.34	0.74	3.32	
December	2026	0	0	531		531			1	0	532	1,009	376	1,005	3.36	0.74	3.34	
January	2027	0	-9	522		522			1	0	523	1,021	376	1,017	3.39	0.74	3.37	
February	2027	0	-54	468		468			1	0	469	938	376	934	3.10	0.74	3.09	
March	2027	0	-32	437		437			1	0	437	896	376	893	2.97	0.74	2.95	
April	2027	0	-42	394		394			1	0	395	814	376	811	2.70	0.74	2.69	
May	2027	0	-3	391		391			1	0	392	848	376	845	2.81	0.74	2.80	
June	2027	0	-16	375		375			1	0	376	831	376	828	2.72	0.74	2.70	
July	2027	0	-55	320		320			1	0	321	730	376	727	2.37	0.74	2.36	
August	2027	0	-116	205		205			1	0	205	484	376	484	1.70	0.74	1.70	
September	2027	0	-7	198		198			1	0	199	501	376	500	1.75	0.74	1.74	
October	2027	0	-29	169		169			1	0	170	478	376	477	1.61	0.74	1.60	
November	2027	0	-109	60		60			1	0	61	151	376	153	0.61	0.74	0.61	
December	2027	0	-1	60		60			1	0	60	150	376	152	0.60	0.74	0.60	
January	2028	0	-19	41		41			1	0	42	102	376	105	0.43	0.74	0.43	
February	2028	0	-1	40		40			1	0	40	115	376	118	0.46	0.74	0.47	
March	2028	0	-1	38		38			1	0	39	112	376	115	0.46	0.74	0.46	
April	2028	0	-3	35		35			1	0	36	107	376	110	0.44	0.74	0.45	
May	2028	0	-3	33		33			1	0	33	120	376	124	0.48	0.74	0.48	
June	2028	0	-3	30		30			1	0	31	120	376	124	0.48	0.74	0.48	
July	2028	0	-2	28		28			1	0	29	122	376	126	0.47	0.74	0.48	
August	2028	0	-7	21		21		-1	0	-1	21	107	-	107	0.42	-	0.42	
September	2028	0	-7	13		13		0	0	-1	13	98	-	98	0.33	-	0.33	
October	2028	0	-4	10		10		-1	0	-1	10	104	-	104	0.35	-	0.35	
November	2028	0	-3	6		6		0	0	-1	6	97	-	97	0.29	-	0.29	
December	2028	0	-4	2		2		0	0	-1	2	75	-	75	0.25	-	0.25	

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Participation										
Month	Year	Program Participants					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2029	0	-4	4		4	0	0	0		-1	4
February	2029	0	-4	0		0	0	0	0		-1	0
March	2029	0	0	0		0	0	0	0		-1	0
April	2029	0	0	0		0	0	0	0		-1	0
May	2029	0	0	0		0	0	0	0		-1	0
June	2029	0	0	0		0	0	0	0		-1	0
July	2029	0	0	0		0	0	0	0		-1	0
August	2029	0	0	0		0	0	0	0		-1	0
September	2029	0	0	0		0	0	0	0		-1	0
October	2029	0	0	0		0	0	0	0		-1	0
November	2029	0	0	0		0	0	0	0		-1	0
December	2029	0	0	0		0	0	0	0		-1	0
January	2030	0	0	0		0	0	0	0		-1	0
February	2030	0	0	0		0	0	0	0		-1	0
March	2030	0	0	0		0	0	0	0		-1	0
April	2030	0	0	0		0	0	0	0		-1	0
May	2030	0	0	0		0	0	0	0		-1	0
June	2030	0	0	0		0	0	0	0		-1	0
July	2030	0	0	0		0	0	0	0		-1	0
August	2030	0	0	0		0	0	0	0		-1	0
September	2030	0	0	0		0	0	0	0		-1	0
October	2030	0	0	0		0	0	0	0		-1	0
November	2030	0	0	0		0	0	0	0		-1	0
December	2030	0	0	0		0	0	0	0		-1	0

Table 2. EM&V Data Incremental by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	3	3	-	-	3					
2015	22	22	-	-	22					
2016	70	70	-	-	70					
2017	59	59	-	-	59					
2018	91	91	1	1	92					
2019	8	8	-	-	8					

Table 3. EM&V Data Annualized by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	3	3	-	-	3					
2015	22	22	-	-	22					
2016	70	70	-	-	70					
2017	59	59	-	-	59					
2018	91	91	1	1	92					
2019	8	8	-	-	8					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
	Program Participants									
	VA	NC PPI	System							
2014		-								
2015		-								
2016		-								
2017		-								
2018		1								
2019		1								

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Energy Savings											
Month	Year	Gross kWh											
		VA				NC				System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2029	0	-208	389		389		0		0		-376	389
February	2029	0	-389	0		0		0		0		-376	0
March	2029	0	0	0		0		0		0		-376	0
April	2029	0	0	0		0		0		0		-376	0
May	2029	0	0	0		0		0		0		-376	0
June	2029	0	0	0		0		0		0		-376	0
July	2029	0	0	0		0		0		0		-376	0
August	2029	0	0	0		0		0		0		-376	0
September	2029	0	0	0		0		0		0		-376	0
October	2029	0	0	0		0		0		0		-376	0
November	2029	0	0	0		0		0		0		-376	0
December	2029	0	0	0		0		0		0		-376	0
January	2030	0	0	0		0		0		0		-376	0
February	2030	0	0	0		0		0		0		-376	0
March	2030	0	0	0		0		0		0		-376	0
April	2030	0	0	0		0		0		0		-376	0
May	2030	0	0	0		0		0		0		-376	0
June	2030	0	0	0		0		0		0		-376	0
July	2030	0	0	0		0		0		0		-376	0
August	2030	0	0	0		0		0		0		-376	0
September	2030	0	0	0		0		0		0		-376	0
October	2030	0	0	0		0		0		0		-376	0
November	2030	0	0	0		0		0		0		-376	0
December	2030	0	0	0		0		0		0		-376	0

Table 2. EM&V Data Incremental by Vintage Year											
Gross Incremental Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2014			96,483		96,483			-		-	96,483
2015			2,303,898		2,303,898			-		-	2,303,898
2016			291,593		291,593			-		-	291,593
2017			837,481		837,481			-		-	837,481
2018			102,751		102,751			1,882		1,882	104,633
2019			6,775		6,775			-		-	6,775

Table 3. EM&V Data Annualized by Vintage Year											
Gross Annualized Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2014			1,152,476		1,152,476			-		-	1,152,476
2015			3,077,815		3,077,815			-		-	3,077,815
2016			464,794		464,794			-		-	464,794
2017			1,734,665		1,734,665			-		-	1,734,665
2018			170,954		170,954			4,516		4,516	175,470
2019			7,165		7,165			-		-	7,165

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
Gross Energy (kWh) for PPI										
								NC PPI		System
2014								-		
2015								-		
2016								-		
2017								-		
2018								1,882		
2019								4,516		

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2029	0	-1	1		1		0		0	-1	1	97	-	97	0.28	-	0.28
February	2029	0	-1	0		0		0		0	-1	0	-	-	-	-	-	-
March	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
April	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
May	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
June	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
July	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
August	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
September	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
October	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
November	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
December	2029	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
January	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
February	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
March	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
April	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
May	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
June	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
July	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
August	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
September	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
October	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
November	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-
December	2030	0	0	0		0		0		0	-1	0	-	-	-	-	-	-

Table 2. EM&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System
2014		233	233	-	-	233	32,161	-	32,161	77.71	-	77.71			
2015		627	627	-	-	627	104,723	-	104,723	28.48	-	28.48			
2016		140	140	-	-	140	4,166	-	4,166	2.00	-	2.00			
2017		471	471	-	-	471	14,195	-	14,195	7.99	-	7.99			
2018		58	58	1	1	58	1,129	1,882	1,137	0.63	0.74	0.63			
2019		2	2	-	-	2	847	-	847	0.25	-	0.25			

Table 3. EM&V Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System
2014		233	233	-	-	233	384,159	-	384,159	77.71	-	77.71			
2015		627	627	-	-	627	139,901	-	139,901	28.48	-	28.48			
2016		140	140	-	-	140	6,640	-	6,640	2.00	-	2.00			
2017		471	471	-	-	471	29,401	-	29,401	7.99	-	7.99			
2018		58	58	1	1	58	1,879	4,516	1,907	0.63	0.74	0.63			
2019		2	1,530	-	-	2	896	-	896	0.25	-	0.25			

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
		VA	VA	NC PPI	NC PPI	System	VA	NC	System	VA	NC	System	VA	NC	System
2014				-	-										
2015				-	-										
2016				-	-										
2017				-	-										
2018				1	1			1,882	1,907		0.74	0.74			
2019				1	1			4,516	896		0.74	0.74			

## Appendix C.7 Non-residential Window Film Program 2014-2019

Year	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2014	3	3	-	-	3					
2015	25	25	-	-	25					
2016	95	95	0	-	95					
2017	154	154	0	-	154					
2018	245	245	1	1	246					
2019	253	253	1	-	254					
2020	253	253	1	-	254					
2021	253	253	1	-	254					
2022	253	253	1	-	254					
2023	253	253	1	-	254					
2024	250	250	1	-	251					
2025	228	228	1	-	229					
2026	158	158	1	-	159					
2027	99	99	1	-	100					
2028	8	8	-	-	8					
2029	-	-	-	-	-					
2030	-	-	-	-	-					

Year	Program Participants									
	VA Lifetime	NC Lifetime	System Lifetime							
2014	3	-	3							
2015	25	-	25							
2016	95	-	95							
2017	154	-	154							
2018	245	1	246							
2019	253	1	254							
2020	253	1	254							
2021	253	1	254							
2022	253	1	254							
2023	253	1	254							
2024	253	1	254							
2025	253	1	254							
2026	253	1	254							
2027	253	1	254							
2028	253	1	254							
2029	253	1	254							
2030	253	1	254							



## Appendix C.7 Non-residential Window Film Program 2014-2019

Year	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2014		96,483		96,483		-		-		96,483
2015		3,456,374		3,456,374		-		-		3,456,374
2016		4,521,884		4,521,884		-		-		4,521,884
2017		5,532,566		5,532,566		-		-		5,532,566
2018		6,532,501		6,532,501		1,882		1,882		6,534,382
2019		6,607,479		6,607,479		4,516		3,763		6,611,995
2020		6,607,869		6,607,869		4,516		-		6,612,385
2021		6,607,869		6,607,869		4,516		-		6,612,385
2022		6,607,869		6,607,869		4,516		-		6,612,385
2023		6,607,869		6,607,869		4,516		-		6,612,385
2024		6,511,386		6,511,386		4,516		-		6,515,902
2025		3,151,495		3,151,495		4,516		-		3,156,011
2026		2,085,985		2,085,985		4,516		-		2,090,501
2027		1,075,303		1,075,303		4,516		-		1,079,819
2028		75,368		75,368		2,634		-		78,002
2029		389		389		-		-		389
2030		-		-		-		-		-

Year	Gross Energy (kWh)									
	VA Lifetime				NC Lifetime				System Lifetime	
2014		96,483				-				96,483
2015		3,552,857				-				3,552,857
2016		8,074,741				-				8,074,741
2017		13,607,307				-				13,607,307
2018		20,139,808				1,882				20,141,689
2019		26,747,287				6,398				26,753,685
2020		33,355,156				10,914				33,366,070
2021		39,963,025				15,430				39,978,454
2022		46,570,893				19,945				46,590,839
2023		53,178,762				24,461				53,203,224
2024		59,690,148				28,977				59,719,125
2025		62,841,643				33,493				62,875,136
2026		64,927,628				38,009				64,965,637
2027		66,002,930				42,525				66,045,456
2028		66,078,298				45,160				66,123,458
2029		66,078,688				45,160				66,123,847
2030		66,078,688				45,160				66,123,847

# Appendix C.7 Non-residential Window Film Program 2014-2019

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2014		233		233			-		-	233	32,161	-	32,161	77.71	-	77.71
2015		860		860			-		-	860	138,255	-	138,255	34.39	-	34.39
2016		999		999			-		-	999	47,599	-	47,599	10.52	-	10.52
2017		1,471		1,471			-		-	1,471	35,926	-	35,926	9.55	-	9.55
2018		1,528		1,528			1		1	1,529	26,663	1,882	26,563	6.24	0.74	6.22
2019		1,530		1,530			1		-	1,531	26,117	4,516	26,031	6.05	0.74	6.03
2020		1,530		1,530			1		-	1,531	26,118	4,516	26,033	6.05	0.74	6.03
2021		1,530		1,530			1		-	1,531	26,118	4,516	26,033	6.05	0.74	6.03
2022		1,530		1,530			1		-	1,531	26,118	4,516	26,033	6.05	0.74	6.03
2023		1,530		1,530			1		-	1,531	26,118	4,516	26,033	6.05	0.74	6.03
2024		1,297		1,297			1		-	1,298	26,046	4,516	25,960	5.19	0.74	5.17
2025		671		671			1		-	672	13,822	4,516	13,782	2.94	0.74	2.93
2026		531		531			1		-	532	13,202	4,516	13,148	3.36	0.74	3.34
2027		60		60			1		-	60	10,862	4,516	10,798	0.60	0.74	0.60
2028		2		2			-		-	2	9,421	-	9,750	0.25	-	0.25
2029		-		-			-		-	-	-	-	-	-	-	-
2030		-		-			-		-	-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy			Lifetime Capacity		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA Lifetime					NC Lifetime			System Lifetime	VA	NC	System	VA	NC	System
2014		233					-			233	32,161	-	32,161	77.71	-	77.71
2015		860					-			860	142,114	-	142,114	34.39	-	34.39
2016		999					-			999	84,997	-	84,997	10.52	-	10.52
2017		1,471					-			1,471	88,359	-	88,359	9.55	-	9.55
2018		1,528					1			1,529	82,203	1,882	81,877	6.24	0.74	6.22
2019		1,530					1			1,531	105,721	6,398	105,329	6.05	0.74	6.03
2020		1,530					1			1,531	131,839	10,914	131,362	6.05	0.74	6.03
2021		1,530					1			1,531	157,957	15,430	157,395	6.05	0.74	6.03
2022		1,530					1			1,531	184,075	19,945	183,428	6.05	0.74	6.03
2023		1,530					1			1,531	210,193	24,461	209,462	6.05	0.74	6.03
2024		1,530					1			1,531	235,929	28,977	235,115	6.05	0.74	6.03
2025		1,530					1			1,531	248,386	33,493	247,540	6.05	0.74	6.03
2026		1,530					1			1,531	256,631	38,009	255,770	6.05	0.74	6.03
2027		1,530					1			1,531	260,881	42,525	260,021	6.05	0.74	6.03
2028		1,530					1			1,531	261,179	45,160	260,329	6.05	0.74	6.03
2029		1,530					1			1,531	261,181	45,160	260,330	6.05	0.74	6.03
2030		1,530					1			1,531	261,181	45,160	260,330	6.05	0.74	6.03

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

**PROGRAM: Small Business Improvement Program**  
**DSM Phase V Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 14.0 years**

Table 1		Participation												
Month	Year	Program Participants										System Cum for IRP		
		VA					NC						System	
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D			
December	2015													0
January	2016	0		0		0	0	0		0		0		0
February	2016	0		0		0	0	0		0		0		0
March	2016	0		0		0	0	0		0		0		0
April	2016	0		0		0	0	0		0		0		0
May	2016	0		0		0	0	0		0		0		0
June	2016	0		0		0	0	0		0		0		0
July	2016	0		0		0	0	0		0		0		0
August	2016	0		0		0	0	0		0		0		0
September	2016	0		0		0	0	0		0		0		0
October	2016	4		4		4	0	0		0		0		4
November	2016	34		38		38	0	0		0		0		38
December	2016	29		67		67	0	0		0		0		67
January	2017	73		140		140	0	0		0		0		140
February	2017	37		177		177	0	0		0		0		177
March	2017	92		269		269	0	0		0		0		269
April	2017	101		370		370	0	0		0		0		370
May	2017	165		535		535	0	0		0		0		535
June	2017	101		636		636	1	1		1		1		637
July	2017	89		725		725	1	2		2		2		727
August	2017	89		814		814	0	2		2		2		816
September	2017	40		854		854	0	2		2		2		856
October	2017	74		928		928	0	2		2		2		930
November	2017	38		966		966	0	2		2		2		968
December	2017	38		1,004		1,004	5	7		7		7		1,011
January	2018	28		1,032		1,032	0	7		7		7		1,039
February	2018	77		1,109		1,109	1	8		8		8		1,117
March	2018	36		1,145		1,145	1	9		9		9		1,154
April	2018	37		1,182		1,182	1	10		10		10		1,192
May	2018	38		1,220		1,220	3	13		13		13		1,233
June	2018	65		1,285		1,285	9	22		22		22		1,307
July	2018	36		1,321		1,321	9	31		31		31		1,352
August	2018	47		1,368		1,368	0	31		31		31		1,399
September	2018	33		1,401		1,401	0	31		31		31		1,432
October	2018	54		1,455		1,455	11	42		42		42		1,497
November	2018	35		1,490		1,490	0	42		42		42		1,532
December	2018	24		1,514		1,514	1	43		43		43		1,557
January	2019	36		1,550		1,550	3	46		46		46		1,596
February	2019	31		1,581		1,581	2	48		48		48		1,629
March	2019	55		1,636		1,636	1	49		49		49		1,685
April	2019	48		1,684		1,684	6	55		55		55		1,739
May	2019	32		1,716		1,716	0	55		55		55		1,771
June	2019	30		1,746		1,746	4	59		59		59		1,805
July	2019	55		1,801		1,801	3	62		62	3	62		1,863
August	2019	44		1,845		1,845	0	62		62	3	62		1,907
September	2019	44		1,889		1,889	4	66		66	7	66		1,955
October	2019	53		1,942		1,942	0	66		66	7	66		2,008
November	2019	36		1,978		1,978	3	69		69	10	69		2,047
December	2019	39		2,017		2,017	1	70		70		70		2,087
January	2020			2,017		2,017		70		70		70		2,087
February	2020			2,017		2,017		70		70		70		2,087
March	2020			2,017		2,017		70		70		70		2,087
April	2020			2,017		2,017		70		70		70		2,087
May	2020			2,017		2,017		70		70		70		2,087
June	2020			2,017		2,017		70		70		70		2,087
July	2020			2,017		2,017		70		70		70		2,087
August	2020			2,017		2,017		70		70		70		2,087
September	2020			2,017		2,017		70		70		70		2,087
October	2020			2,017		2,017		70		70		70		2,087
November	2020			2,017		2,017		70		70		70		2,087
December	2020			2,017		2,017		70		70		70		2,087

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Energy Savings											
Month	Year	VA					NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
December	2015												0
January	2016	0		0		0	0			0		0	0
February	2016	0		0		0	0			0		0	0
March	2016	0		0		0	0			0		0	0
April	2016	0		0		0	0			0		0	0
May	2016	0		0		0	0			0		0	0
June	2016	0		0		0	0			0		0	0
July	2016	0		0		0	0			0		0	0
August	2016	0		0		0	0			0		0	0
September	2016	0		0		0	0			0		0	0
October	2016	3,443		3,443		3,443	0			0		0	3,443
November	2016	11,775		15,218		15,218	0			0		0	15,218
December	2016	39,516		54,733		54,733	0			0		0	54,733
January	2017	71,461		126,194		126,194	0			0		0	126,194
February	2017	26,382		152,576		152,576	0			0		0	152,576
March	2017	105,881		258,457		258,457	0			0		0	258,457
April	2017	74,495		332,953		332,953	0			0		0	332,953
May	2017	143,204		476,157		476,157	0			0		0	476,157
June	2017	104,754		580,910		580,910	1,128			1,128		1,128	582,039
July	2017	126,670		707,581		707,581	4,282			5,410		5,410	712,990
August	2017	111,849		819,429		819,429	0			5,410		5,410	824,839
September	2017	100,158		919,588		919,588	0			5,410		5,410	924,997
October	2017	180,220		1,099,807		1,099,807	0			5,410		5,410	1,105,217
November	2017	107,464		1,207,271		1,207,271	0			5,410		5,410	1,212,681
December	2017	72,379		1,279,650		1,279,650	8,466			13,876		13,876	1,293,526
January	2018	69,594		1,349,244		1,349,244	0			13,876		13,876	1,363,120
February	2018	155,475		1,504,719		1,504,719	3,186			17,061		17,061	1,521,781
March	2018	86,262		1,590,981		1,590,981	1,877			18,939		18,939	1,609,919
April	2018	92,830		1,683,810		1,683,810	2,842			21,781		21,781	1,705,591
May	2018	56,784		1,740,595		1,740,595	18,869			40,650		40,650	1,781,245
June	2018	464,228		2,204,822		2,204,822	18,388			59,038		59,038	2,263,860
July	2018	54,977		2,259,799		2,259,799	8,775			67,813		67,813	2,327,612
August	2018	54,450		2,314,248		2,314,248	0			67,813		67,813	2,382,061
September	2018	59,410		2,373,658		2,373,658	0			67,813		67,813	2,441,471
October	2018	109,496		2,483,154		2,483,154	27,214			95,027		95,027	2,578,181
November	2018	76,093		2,559,247		2,559,247	0			95,027		95,027	2,654,274
December	2018	53,646		2,612,893		2,612,893	2,242			97,269		97,269	2,710,162
January	2019	82,956		2,695,850		2,695,850	7,711			104,980		104,980	2,800,829
February	2019	121,702		2,817,551		2,817,551	13,521			118,500		118,500	2,936,051
March	2019	94,378		2,911,930		2,911,930	103			118,603		118,603	3,030,532
April	2019	46,242		2,958,171		2,958,171	8,933			127,535		127,535	3,085,707
May	2019	80,084		3,038,255		3,038,255	0			127,535		127,535	3,165,791
June	2019	48,841		3,087,097		3,087,097	6,966			134,501		134,501	3,221,598
July	2019	80,619		3,167,715		3,167,715	3,015			137,516	3,015	137,516	3,305,232
August	2019	100,640		3,268,355		3,268,355	0			137,516	3,015	137,516	3,405,872
September	2019	85,294		3,353,649		3,353,649	10,192			147,709	13,208	147,709	3,501,358
October	2019	76,260		3,429,909		3,429,909	345			148,054	13,553	148,054	3,577,963
November	2019	94,373		3,524,282		3,524,282	6,645			154,699	20,198	20,198	3,678,981
December	2019	59,333		3,583,615		3,583,615	530			155,229		20,727	3,738,844
January	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
February	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
March	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
April	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
May	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
June	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
July	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
August	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
September	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
October	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
November	2020			3,583,615		3,583,615				155,229		20,727	3,738,844
December	2020			3,583,615		3,583,615				155,229		20,727	3,738,844

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
December	2015											0						
January	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
February	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
March	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
April	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
May	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
June	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
July	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
August	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
September	2016	0		0		0	0	0		0	0	0	-	-	-	-	-	-
October	2016	7		7		7	0	0		0	7	7	861	-	861	1.70	-	1.70
November	2016	18		25		25	0	0		0	25	25	400	-	400	0.67	-	0.67
December	2016	106		132		132	0	0		0	132	132	817	-	817	1.96	-	1.96
January	2017	175		306		306	0	0		0	306	306	901	-	901	2.19	-	2.19
February	2017	66		372		372	0	0		0	372	372	862	-	862	2.10	-	2.10
March	2017	282		654		654	0	0		0	654	654	961	-	961	2.43	-	2.43
April	2017	199		853		853	0	0		0	853	853	900	-	900	2.31	-	2.31
May	2017	325		1,178		1,178	0	0		0	1,178	1,178	890	-	890	2.20	-	2.20
June	2017	271		1,449		1,449	0	0		0	1,449	1,449	913	1,128	914	2.28	0.00	2.27
July	2017	320		1,769		1,769	7	7		7	1,776	1,776	976	2,705	981	2.44	3.61	2.44
August	2017	302		2,070		2,070	0	0		0	2,078	2,078	1,007	2,705	1,011	2.54	3.61	2.55
September	2017	266		2,337		2,337	0	0		0	2,344	2,344	1,077	2,705	1,081	2.74	3.61	2.74
October	2017	417		2,753		2,753	0	0		0	2,761	2,761	1,185	2,705	1,188	2.97	3.61	2.97
November	2017	280		3,033		3,033	0	0		0	3,040	3,040	1,250	2,705	1,253	3.14	3.61	3.14
December	2017	196		3,230		3,230	25	25		25	3,262	3,262	1,275	1,982	1,279	3.22	4.66	3.23
January	2018	191		3,421		3,421	0	0		0	3,454	3,454	1,307	1,982	1,312	3.31	4.66	3.32
February	2018	384		3,805		3,805	4	4		4	3,841	3,841	1,357	2,133	1,362	3.43	4.59	3.44
March	2018	207		4,012		4,012	7	7		7	4,056	4,056	1,390	2,104	1,395	3.50	4.90	3.51
April	2018	223		4,235		4,235	8	8		8	4,287	4,287	1,425	2,178	1,431	3.58	5.21	3.60
May	2018	141		4,376		4,376	53	53		53	4,482	4,482	1,427	3,127	1,445	3.59	8.09	3.63
June	2018	1,241		5,618		5,618	49	49		49	5,771	5,771	1,716	2,684	1,732	4.37	6.99	4.42
July	2018	146		5,764		5,764	21	21		21	5,938	5,938	1,711	2,188	1,722	4.36	5.63	4.39
August	2018	150		5,914		5,914	0	0		0	6,088	6,088	1,692	2,188	1,703	4.32	5.63	4.35
September	2018	137		6,050		6,050	0	0		0	6,225	6,225	1,694	2,188	1,705	4.32	5.63	4.35
October	2018	290		6,340		6,340	72	72		72	6,587	6,587	1,707	2,263	1,722	4.36	5.88	4.40
November	2018	205		6,545		6,545	0	0		0	6,792	6,792	1,718	2,263	1,733	4.39	5.88	4.43
December	2018	161		6,705		6,705	5	5		5	6,957	6,957	1,726	2,262	1,741	4.43	5.85	4.47
January	2019	228		6,934		6,934	21	21		21	7,206	7,206	1,739	2,282	1,755	4.47	5.92	4.52
February	2019	338		7,271		7,271	38	38		38	7,581	7,581	1,782	2,469	1,802	4.60	6.46	4.65
March	2019	267		7,539		7,539	0	0		0	7,849	7,849	1,780	2,420	1,799	4.61	6.33	4.66
April	2019	157		7,696		7,696	19	19		19	8,025	8,025	1,757	2,319	1,774	4.57	5.99	4.61
May	2019	203		7,899		7,899	0	0		0	8,228	8,228	1,771	2,319	1,788	4.60	5.99	4.65
June	2019	84		7,983		7,983	17	17		17	8,329	8,329	1,768	2,280	1,785	4.57	5.87	4.61
July	2019	201		8,184		8,184	6	6		6	8,537	8,537	1,759	2,218	1,774	4.54	5.69	4.58
August	2019	229		8,413		8,413	0	0		0	8,766	8,766	1,771	2,218	1,786	4.56	5.69	4.60
September	2019	229		8,642		8,642	22	22		22	9,017	9,017	1,775	2,238	1,791	4.58	5.68	4.61
October	2019	216		8,859		8,859	1	1		1	9,234	9,234	1,766	2,243	1,782	4.56	5.69	4.60
November	2019	245		9,103		9,103	15	15		15	9,494	9,494	1,782	2,242	1,797	4.60	5.66	4.64
December	2019	155		9,259		9,259	1	1		1	9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2020			9,259		9,259					9,651	9,651	1,777	2,218	1,791	4.59	5.60	4.62

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2021			2,017		2,017			70		11	2,087
February	2021			2,017		2,017			70		11	2,087
March	2021			2,017		2,017			70		11	2,087
April	2021			2,017		2,017			70		11	2,087
May	2021			2,017		2,017			70		11	2,087
June	2021			2,017		2,017			70		11	2,087
July	2021			2,017		2,017			70		11	2,087
August	2021			2,017		2,017			70		11	2,087
September	2021			2,017		2,017			70		11	2,087
October	2021			2,017		2,017			70		11	2,087
November	2021			2,017		2,017			70		11	2,087
December	2021			2,017		2,017			70		11	2,087
January	2022			2,017		2,017			70		11	2,087
February	2022			2,017		2,017			70		11	2,087
March	2022			2,017		2,017			70		11	2,087
April	2022			2,017		2,017			70		11	2,087
May	2022			2,017		2,017			70		11	2,087
June	2022			2,017		2,017			70		11	2,087
July	2022			2,017		2,017			70		11	2,087
August	2022			2,017		2,017			70		11	2,087
September	2022			2,017		2,017			70		11	2,087
October	2022			2,017		2,017			70		11	2,087
November	2022			2,017		2,017			70		11	2,087
December	2022			2,017		2,017			70		11	2,087
January	2023			2,017		2,017			70		11	2,087
February	2023			2,017		2,017			70		11	2,087
March	2023			2,017		2,017			70		11	2,087
April	2023			2,017		2,017			70		11	2,087
May	2023			2,017		2,017			70		11	2,087
June	2023			2,017		2,017			70		11	2,087
July	2023			2,017		2,017			70		11	2,087
August	2023			2,017		2,017			70		11	2,087
September	2023			2,017		2,017			70		11	2,087
October	2023			2,017		2,017			70		11	2,087
November	2023			2,017		2,017			70		11	2,087
December	2023			2,017		2,017			70		11	2,087
January	2024			2,017		2,017			70		11	2,087
February	2024			2,017		2,017			70		11	2,087
March	2024			2,017		2,017			70		11	2,087
April	2024			2,017		2,017			70		11	2,087
May	2024			2,017		2,017			70		11	2,087
June	2024			2,017		2,017			70		11	2,087
July	2024			2,017		2,017			70		11	2,087
August	2024			2,017		2,017			70		11	2,087
September	2024			2,017		2,017			70		11	2,087
October	2024			2,017		2,017			70		11	2,087
November	2024			2,017		2,017			70		11	2,087
December	2024			2,017		2,017			70		11	2,087
January	2025			2,017		2,017			70		11	2,087
February	2025			2,017		2,017			70		11	2,087
March	2025			2,017		2,017			70		11	2,087
April	2025			2,017		2,017			70		11	2,087
May	2025			2,017		2,017			70		11	2,087
June	2025			2,017		2,017			70		11	2,087
July	2025			2,017		2,017			70		11	2,087
August	2025			2,017		2,017			70		11	2,087
September	2025			2,017		2,017			70		11	2,087
October	2025			2,017		2,017			70		11	2,087
November	2025			2,017		2,017			70		11	2,087
December	2025			2,017		2,017			70		11	2,087

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2021			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2022			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2023			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2024			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2025			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2025			3,583,615		3,583,615			155,229		20,727	3,738,844

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System	VA	NC	System	VA	NC	System
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
January	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2021			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2022			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2023			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2024			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2025			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62



# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2026			2,017		2,017			70		11	2,087
February	2026			2,017		2,017			70		11	2,087
March	2026			2,017		2,017			70		11	2,087
April	2026			2,017		2,017			70		11	2,087
May	2026			2,017		2,017			70		11	2,087
June	2026			2,017		2,017			70		11	2,087
July	2026			2,017		2,017			70		11	2,087
August	2026			2,017		2,017			70		11	2,087
September	2026			2,017		2,017			70		11	2,087
October	2026			2,017		2,017			70		11	2,087
November	2026			2,017		2,017			70		11	2,087
December	2026			2,017		2,017			70		11	2,087
January	2027			2,017		2,017			70		11	2,087
February	2027			2,017		2,017			70		11	2,087
March	2027			2,017		2,017			70		11	2,087
April	2027			2,017		2,017			70		11	2,087
May	2027			2,017		2,017			70		11	2,087
June	2027			2,017		2,017			70		11	2,087
July	2027			2,017		2,017			70		11	2,087
August	2027			2,017		2,017			70		11	2,087
September	2027			2,017		2,017			70		11	2,087
October	2027			2,017		2,017			70		11	2,087
November	2027			2,017		2,017			70		11	2,087
December	2027			2,017		2,017			70		11	2,087
January	2028			2,017		2,017			70		11	2,087
February	2028			2,017		2,017			70		11	2,087
March	2028			2,017		2,017			70		11	2,087
April	2028			2,017		2,017			70		11	2,087
May	2028			2,017		2,017			70		11	2,087
June	2028			2,017		2,017			70		11	2,087
July	2028			2,017		2,017			70		11	2,087
August	2028			2,017		2,017			70		11	2,087
September	2028			2,017		2,017			70		11	2,087
October	2028			2,017		2,017			70		11	2,087
November	2028			2,017		2,017			70		11	2,087
December	2028			2,017		2,017			70		11	2,087
January	2029			2,017		2,017			70		11	2,087
February	2029			2,017		2,017			70		11	2,087
March	2029			2,017		2,017			70		11	2,087
April	2029			2,017		2,017			70		11	2,087
May	2029			2,017		2,017			70		11	2,087
June	2029			2,017		2,017			70		11	2,087
July	2029			2,017		2,017			70		11	2,087
August	2029			2,017		2,017			70		11	2,087
September	2029			2,017		2,017			70		11	2,087
October	2029			2,017		2,017			70		11	2,087
November	2029			2,017		2,017			70		11	2,087
December	2029			2,017		2,017			70		11	2,087
January	2030			2,017		2,017			70		11	2,087
February	2030			2,017		2,017			70		11	2,087
March	2030			2,017		2,017			70		11	2,087
April	2030			2,017		2,017			70		11	2,087
May	2030			2,017		2,017			70		11	2,087
June	2030			2,017		2,017			70		11	2,087
July	2030			2,017		2,017			70		11	2,087
August	2030			2,017		2,017			70		11	2,087
September	2030			2,017		2,017			70		11	2,087
October	2030		-4	2,013		2,013			70		11	2,083
November	2030		-34	1,979		1,979			70		11	2,049
December	2030		-29	1,950		1,950			70		11	2,020

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2026			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2027			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2028			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
November	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
December	2029			3,583,615		3,583,615			155,229		20,727	3,738,844
January	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
February	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
March	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
April	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
May	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
June	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
July	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
August	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
September	2030			3,583,615		3,583,615			155,229		20,727	3,738,844
October	2030		-3,443	3,580,173		3,580,173			155,229		20,727	3,735,401
November	2030		-11,775	3,568,398		3,568,398			155,229		20,727	3,723,626
December	2030		-39,516	3,528,882		3,528,882			155,229		20,727	3,684,111

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2026			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2027			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2028			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
November	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
December	2029			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
January	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
February	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
March	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
April	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
May	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
June	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
July	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
August	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
September	2030			9,259		9,259			392		46	9,651	1,777	2,218	1,791	4.59	5.60	4.62
October	2030		-7	9,252		9,252			392		46	9,644	1,779	2,218	1,793	4.60	5.60	4.63
November	2030		-18	9,233		9,233			392		46	9,625	1,803	2,218	1,817	4.67	5.60	4.70
December	2030		-106	9,127		9,127			392		46	9,519	1,810	2,218	1,824	4.68	5.60	4.71

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2031		-73	1,877		1,877			70		11	1,947
February	2031		-37	1,840		1,840			70		11	1,910
March	2031		-92	1,748		1,748			70		11	1,818
April	2031		-101	1,647		1,647			70		11	1,717
May	2031		-165	1,482		1,482			70		11	1,552
June	2031		-101	1,381		1,381		-1	69		10	1,450
July	2031		-89	1,292		1,292		-1	68		9	1,360
August	2031		-89	1,203		1,203		0	68		9	1,271
September	2031		-40	1,163		1,163		0	68		9	1,231
October	2031		-74	1,089		1,089		0	68		9	1,157
November	2031		-38	1,051		1,051		0	68		9	1,119
December	2031		-38	1,013		1,013		-5	63		4	1,076
January	2032		-28	985		985		0	63		4	1,048
February	2032		-77	908		908		-1	62		3	970
March	2032		-36	872		872		-1	61		2	933
April	2032		-37	835		835		-1	60		1	895
May	2032		-38	797		797		-3	57		-2	854
June	2032		-65	732		732		-9	48		-11	780
July	2032		-36	696		696		-9	39		-20	735
August	2032		-47	649		649		0	39		-20	688
September	2032		-33	616		616		0	39		-20	655
October	2032		-54	562		562		-11	28		-31	590
November	2032		-35	527		527		0	28		-31	555
December	2032		-24	503		503		-1	27		-32	530
January	2033		-36	467		467		-3	24		-35	491
February	2033		-31	436		436		-2	22		-37	458
March	2033		-55	381		381		-1	21		-38	402
April	2033		-48	333		333		-6	15		-44	348
May	2033		-32	301		301		0	15		-44	316
June	2033		-30	271		271		-4	11		-48	282
July	2033		-55	216		216		-3	8		-51	224
August	2033		-44	172		172		0	8		-51	180
September	2033		-44	128		128		-4	4		-55	132
October	2033		-53	75		75		0	4		-55	79
November	2033		-36	39		39		-3	1		-58	40
December	2033		-39	0		0		-1	0		-59	0
January	2034		0	0		0		0	0		-59	0
February	2034		0	0		0		0	0		-59	0
March	2034		0	0		0		0	0		-59	0
April	2034		0	0		0		0	0		-59	0
May	2034		0	0		0		0	0		-59	0
June	2034		0	0		0		0	0		-59	0
July	2034		0	0		0		0	0		-59	0
August	2034		0	0		0		0	0		-59	0
September	2034		0	0		0		0	0		-59	0
October	2034		0	0		0		0	0		-59	0
November	2034		0	0		0		0	0		-59	0
December	2034		0	0		0		0	0		-59	0

Table 2. EM&V Data Incremental by Vintage Year		Program Participants									
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016		67	67	-	-	67					
2017		937	937	7	7	944					
2018		510	510	36	36	546					
2019		503	503	27	11	530					

Table 3. EM&V Data Annualized by Vintage Year		Program Participants									
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016		67	67	-	-	67					
2017		937	937	7	7	944					
2018		510	510	36	36	546					
2019		503	503	27	11	530					

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2031		-71,461	3,457,421		3,457,421			155,229		20,727	3,612,650
February	2031		-26,382	3,431,039		3,431,039			155,229		20,727	3,586,268
March	2031		-105,881	3,325,158		3,325,158			155,229		20,727	3,480,387
April	2031		-74,495	3,250,663		3,250,663			155,229		20,727	3,405,891
May	2031		-143,204	3,107,459		3,107,459			155,229		20,727	3,262,687
June	2031		-104,754	3,002,705		3,002,705		-1,128	154,100		19,599	3,156,805
July	2031		-126,670	2,876,035		2,876,035		-4,282	149,819		15,318	3,025,854
August	2031		-111,849	2,764,186		2,764,186		0	149,819		15,318	2,914,005
September	2031		-100,158	2,664,028		2,664,028		0	149,819		15,318	2,813,847
October	2031		-180,220	2,483,808		2,483,808		0	149,819		15,318	2,633,627
November	2031		-107,464	2,376,344		2,376,344		0	149,819		15,318	2,526,163
December	2031		-72,379	2,303,965		2,303,965		-8,466	141,353		6,852	2,445,318
January	2032		-69,594	2,234,371		2,234,371		0	141,353		6,852	2,375,724
February	2032		-155,475	2,078,896		2,078,896		-3,186	138,167		3,666	2,217,063
March	2032		-86,262	1,992,635		1,992,635		-1,877	136,290		1,789	2,128,925
April	2032		-92,830	1,899,805		1,899,805		-2,842	133,448		-1,053	2,033,253
May	2032		-56,784	1,843,021		1,843,021		-18,869	114,579		-19,923	1,957,599
June	2032		-464,228	1,378,793		1,378,793		-18,388	96,191		-38,310	1,474,984
July	2032		-54,977	1,323,817		1,323,817		-8,775	87,416		-47,085	1,411,232
August	2032		-54,450	1,269,367		1,269,367		0	87,416		-47,085	1,356,783
September	2032		-59,410	1,209,957		1,209,957		0	87,416		-47,085	1,297,373
October	2032		-109,496	1,100,461		1,100,461		-27,214	60,202		-74,299	1,160,663
November	2032		-76,093	1,024,368		1,024,368		0	60,202		-74,299	1,084,570
December	2032		-53,646	970,722		970,722		-2,242	57,960		-76,541	1,028,682
January	2033		-82,956	887,766		887,766		-7,711	50,249		-84,252	938,015
February	2033		-121,702	766,064		766,064		-13,521	36,728		-97,773	802,793
March	2033		-94,378	671,686		671,686		-103	36,626		-97,875	708,312
April	2033		-46,242	625,444		625,444		-8,933	27,693		-106,808	653,137
May	2033		-80,084	545,360		545,360		0	27,693		-106,808	573,053
June	2033		-48,841	496,519		496,519		-6,966	20,727		-113,774	517,246
July	2033		-80,619	415,900		415,900		-3,015	17,712		-116,789	433,612
August	2033		-100,640	315,260		315,260		0	17,712		-116,789	332,972
September	2033		-85,294	229,967		229,967		-10,192	7,520		-126,981	237,486
October	2033		-76,260	153,707		153,707		-345	7,174		-127,327	160,881
November	2033		-94,373	59,333		59,333		-6,645	530		-133,971	59,863
December	2033		-59,333	0		0		-530	0		-134,501	0
January	2034		0	0		0		0	0		-134,501	0
February	2034		0	0		0		0	0		-134,501	0
March	2034		0	0		0		0	0		-134,501	0
April	2034		0	0		0		0	0		-134,501	0
May	2034		0	0		0		0	0		-134,501	0
June	2034		0	0		0		0	0		-134,501	0
July	2034		0	0		0		0	0		-134,501	0
August	2034		0	0		0		0	0		-134,501	0
September	2034		0	0		0		0	0		-134,501	0
October	2034		0	0		0		0	0		-134,501	0
November	2034		0	0		0		0	0		-134,501	0
December	2034		0	0		0		0	0		-134,501	0

Table 2. EM&V Data Incremental by Vintage Year		Gross Incremental Energy (kWh)									
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016		73,394	73,394	-	-	73,394					
2017		7,303,773	7,303,773	42,053	42,053	7,345,825					
2018		9,321,365	9,321,365	495,598	495,598	9,816,964					
2019		6,481,659	6,481,659	445,156	370,690	6,926,815					

Table 3. EM&V Data Annualized by Vintage Year		Gross Annualized Energy (kWh)									
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016		656,801	656,801	-	-	656,801					
2017		14,699,005	14,699,005	166,507	166,507	14,865,511					
2018		15,998,914	15,998,914	1,000,716	1,000,716	16,999,629					
2019		11,648,664	11,648,664	695,521	-918,493	12,344,186					

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	VA
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2031		-175	8,953		8,953				392	46	9,345	1,842	2,218	1,855	4.77	5.60	4.80
February	2031		-66	8,887		8,887				392	46	9,279	1,865	2,218	1,878	4.83	5.60	4.86
March	2031		-282	8,605		8,605				392	46	8,997	1,902	2,218	1,914	4.92	5.60	4.95
April	2031		-199	8,406		8,406				392	46	8,797	1,974	2,218	1,984	5.10	5.60	5.12
May	2031		-325	8,081		8,081				392	46	8,473	2,097	2,218	2,102	5.45	5.60	5.46
June	2031		-271	7,810		7,810		0		392	46	8,202	2,174	2,233	2,177	5.66	5.68	5.66
July	2031		-320	7,490		7,490		-7		385	38	7,875	2,226	2,203	2,225	5.80	5.66	5.79
August	2031		-302	7,189		7,189		0		385	38	7,573	2,298	2,203	2,293	5.98	5.66	5.96
September	2031		-266	6,922		6,922		0		385	38	7,307	2,291	2,203	2,286	5.95	5.66	5.94
October	2031		-417	6,505		6,505		0		385	38	6,890	2,281	2,203	2,276	5.97	5.66	5.96
November	2031		-280	6,226		6,226		0		385	38	6,610	2,261	2,203	2,258	5.92	5.66	5.91
December	2031		-196	6,029		6,029		-25		359	13	6,389	2,274	2,244	2,273	5.95	5.70	5.94
January	2032		-191	5,838		5,838		0		359	13	6,197	2,268	2,244	2,267	5.93	5.70	5.91
February	2032		-384	5,454		5,454		-4		355	9	5,809	2,290	2,229	2,286	6.01	5.73	5.99
March	2032		-207	5,247		5,247		-7		348	2	5,594	2,285	2,234	2,282	6.02	5.70	6.00
April	2032		-223	5,023		5,023		-8		340	-6	5,363	2,275	2,224	2,272	6.02	5.66	5.99
May	2032		-141	4,882		4,882		-53		287	-59	5,169	2,312	2,010	2,292	6.13	5.03	6.05
June	2032		-1,241	3,641		3,641		-49		238	-108	3,879	1,884	2,004	1,891	4.97	4.96	4.97
July	2032		-146	3,495		3,495		-21		217	-129	3,713	1,902	2,241	1,920	5.02	5.57	5.05
August	2032		-150	3,345		3,345		0		217	-129	3,563	1,956	2,241	1,972	5.15	5.57	5.18
September	2032		-137	3,208		3,208		0		217	-129	3,426	1,964	2,241	1,981	5.21	5.57	5.23
October	2032		-290	2,919		2,919		-72		145	-201	3,064	1,958	2,150	1,967	5.19	5.18	5.19
November	2032		-205	2,714		2,714		0		145	-201	2,859	1,944	2,150	1,954	5.15	5.18	5.15
December	2032		-161	2,554		2,554		-5		140	-206	2,694	1,930	2,147	1,941	5.08	5.19	5.08
January	2033		-228	2,325		2,325		-21		120	-227	2,445	1,901	2,094	1,910	4.98	4.98	4.98
February	2033		-338	1,988		1,988		-38		82	-264	2,069	1,757	1,669	1,753	4.56	3.73	4.52
March	2033		-267	1,720		1,720		0		82	-265	1,802	1,763	1,744	1,762	4.51	3.88	4.48
April	2033		-157	1,563		1,563		-19		63	-284	1,626	1,878	1,846	1,877	4.69	4.17	4.67
May	2033		-203	1,360		1,360		0		63	-284	1,422	1,812	1,846	1,813	4.52	4.17	4.50
June	2033		-84	1,276		1,276		-17		46	-300	1,322	1,832	1,884	1,834	4.71	4.16	4.69
July	2033		-201	1,075		1,075		-6		39	-307	1,114	1,925	2,214	1,936	4.98	4.91	4.97
August	2033		-229	846		846		0		39	-307	885	1,833	2,214	1,850	4.92	4.91	4.92
September	2033		-229	616		616		-22		17	-329	634	1,797	1,880	1,799	4.82	4.33	4.80
October	2033		-216	400		400		-1		17	-329	417	2,049	1,794	2,036	5.34	4.18	5.28
November	2033		-245	155		155		-15		1	-345	157	1,521	530	1,497	3.98	1.42	3.92
December	2033		-155	0		0		-1		0	-346	0	-	-	-	-	-	-
January	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
February	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
March	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
April	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
May	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
June	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
July	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
August	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
September	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
October	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
November	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-
December	2034		0	0		0		0		0	-346	0	-	-	-	-	-	-

Table 2. EM&V Data Incremental by Vintage Year		Gross Peak Demand (kW)										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System		
2016		132	132	-	-	132	1,095	-	1,095	1.96	-	1.96					
2017		3,098	3,098	33	33	3,131	15,687	6,008	7,782	3.31	4.66	3.32					
2018		3,476	3,476	219	219	3,695	18,277	13,767	17,980	6.82	6.09	6.77					
2019		2,554	2,554	140	46	2,694	12,886	16,487	13,069	5.08	5.19	5.08					

Table 3. EM&V Data Annualized by Vintage Year		Gross Peak Demand (kW)										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System		
2016		132	132	-	-	132	9,803	-	9,803	1.96	-	1.96					
2017		3,098	3,098	33	33	3,131	15,687	23,787	15,747	3.31	4.66	3.32					
2018		3,476	3,476	219	219	3,695	31,370	27,798	31,135	6.82	6.09	6.77					
2019		2,554	2,554	140	46	2,694	23,158	25,760	23,291	5.08	5.19	5.08					

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)	Program Participants									
	VA							NC PPI		System
2016								-		
2017								7		
2018								43		
2019								70		
2020								63		

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016			67		67			-		-	67
2017			1,004		1,004			7		7	1,011
2018			1,514		1,514			43		43	1,557
2019			2,017		2,017			70		11	2,087
2020			2,017		2,017			70		11	2,087
2021			2,017		2,017			70		11	2,087
2022			2,017		2,017			70		11	2,087
2023			2,017		2,017			70		11	2,087
2024			2,017		2,017			70		11	2,087
2025			2,017		2,017			70		11	2,087
2026			2,017		2,017			70		11	2,087
2027			2,017		2,017			70		11	2,087
2028			2,017		2,017			70		11	2,087
2029			2,017		2,017			70		11	2,087
2030			1,950		1,950			70		11	2,020
2031			1,013		1,013			63		4	1,076
2032			503		503			27		-	530
2033			-		-			-		-	-
2034			-		-			-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)										
	Program Participants									
			VA Lifetime					NC Lifetime		System Lifetime
2016			67					-		67
2017			1,004					7		1,011
2018			1,514					43		1,557
2019			2,017					70		2,087
2020			2,017					70		2,087
2021			2,017					70		2,087
2022			2,017					70		2,087
2023			2,017					70		2,087
2024			2,017					70		2,087
2025			2,017					70		2,087
2026			2,017					70		2,087
2027			2,017					70		2,087
2028			2,017					70		2,087
2029			2,017					70		2,087
2030			2,017					70		2,087
2031			2,017					70		2,087
2032			2,017					70		2,087
2033			2,017					70		2,087
2034			2,017					70		2,087

# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
Year	Gross Energy (kWh) for PPI									
	VA							NC PPI		System
2016								-		
2017								42,053		
2018								662,105		
2019								1,612,378		
2020								1,696,237		

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										
Year	Gross Energy (kWh)									
	VA IRP	VA NLR					NC IRP	NC NLR	System IRP	
2016	73,394	73,394					-	-	73,394	
2017	7,960,574	7,960,574					42,053	42,053	8,002,627	
2018	24,677,171	24,677,171					662,105	662,105	25,339,276	
2019	37,836,379	37,836,379					1,612,378	1,343,376	39,448,757	
2020	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2021	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2022	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2023	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2024	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2025	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2026	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2027	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2028	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2029	43,003,384	43,003,384					1,862,743	248,730	44,866,128	
2030	42,929,990	42,929,990					1,862,743	248,730	44,792,734	
2031	35,042,810	35,042,810					1,820,691	206,677	36,863,501	
2032	18,326,213	18,326,213					1,200,638	-	19,526,851	
2033	5,167,005	5,167,005					250,365	-	5,417,370	
2034	-	-					-	-	-	

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)										
Year	Gross Energy (kWh)									
	VA Lifetime						NC Lifetime		System Lifetime	
2016	73,394						-		73,394	
2017	8,033,968						42,053		8,076,021	
2018	32,711,139						704,158		33,415,297	
2019	70,547,519						2,316,536		72,864,054	
2020	113,550,903						4,179,279		117,730,182	
2021	156,554,287						6,042,022		162,596,309	
2022	199,557,671						7,904,766		207,462,437	
2023	242,561,056						9,767,509		252,328,565	
2024	285,564,440						11,630,252		297,194,692	
2025	328,567,824						13,492,996		342,060,820	
2026	371,571,209						15,355,739		386,926,948	
2027	414,574,593						17,218,482		431,793,075	
2028	457,577,977						19,081,226		476,659,203	
2029	500,581,361						20,943,969		521,525,331	
2030	543,511,352						22,806,712		566,318,064	
2031	578,554,162						24,627,403		603,181,565	
2032	596,880,375						25,828,042		622,708,417	
2033	602,047,380						26,078,407		628,125,787	
2034	602,047,380						26,078,407		628,125,787	



# Appendix C.8 Non-residential Small Business Improvement Program 2016-2019

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)	Gross Peak Demand (kW)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
											Gross kWh/Participant			Gross kW/Participant			
	VA							NC PPI			System	VA	NC	System	VA	NC	System
2016								-									
2017								33					6,008				4.66
2018								252					15,398				5.85
2019								392					23,034				5.60
2020								359					26,924				5.70

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)	Gross Peak Demand (kW)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
											Gross kWh/Participant			Gross kW/Participant			
	VA IRP							NC IRP			System IRP	VA	NC	System	VA	NC	System
2016	132							-		132	1,095	-	1,095	1.96	-	-	1.96
2017	3,230						33		33	3,262	7,929	6,008	7,916	3.22	4.66		3.23
2018	6,705						252		252	6,957	16,299	15,398	16,274	4.43	5.85		4.47
2019	9,259						392		46	9,651	18,759	23,034	18,902	4.59	5.60		4.62
2020	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2021	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2022	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2023	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2024	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2025	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2026	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2027	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2028	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2029	9,259						392		46	9,651	21,320	26,611	21,498	4.59	5.60		4.62
2030	9,127						392		46	9,519	22,015	26,611	22,175	4.68	5.60		4.71
2031	6,029						359		13	6,389	34,593	28,900	34,260	5.95	5.70		5.94
2032	2,554						140		-	2,694	36,434	44,468	36,843	5.08	5.19		5.08
2033	-						-		-	-	-	-	-	-	-	-	-
2034	-						-		-	-	-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)	Gross Peak Demand (kW)										Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant			
											Gross kWh/Participant			Gross kW/Participant			
	VA Lifetime							NC Lifetime			System Lifetime	VA	NC	System	VA	NC	System
2016	132							-		132	1,095	-	1,095	1.96	-	-	1.96
2017	3,230						33		33	3,262	8,002	6,008	7,988	3.22	4.66		3.23
2018	6,705						252		252	6,957	21,606	16,376	21,461	4.43	5.85		4.47
2019	9,259						392		46	9,651	34,976	33,093	34,913	4.59	5.60		4.62
2020	9,259						392		46	9,651	56,297	59,704	56,411	4.59	5.60		4.62
2021	9,259						392		46	9,651	77,617	86,315	77,909	4.59	5.60		4.62
2022	9,259						392		46	9,651	98,938	112,925	99,407	4.59	5.60		4.62
2023	9,259						392		46	9,651	120,258	139,536	120,905	4.59	5.60		4.62
2024	9,259						392		46	9,651	141,579	166,146	142,403	4.59	5.60		4.62
2025	9,259						392		46	9,651	162,899	192,757	163,901	4.59	5.60		4.62
2026	9,259						392		46	9,651	184,220	219,368	185,399	4.59	5.60		4.62
2027	9,259						392		46	9,651	205,540	245,978	206,897	4.59	5.60		4.62
2028	9,259						392		46	9,651	226,861	272,589	228,394	4.59	5.60		4.62
2029	9,259						392		46	9,651	248,181	299,200	249,892	4.59	5.60		4.62
2030	9,259						392		46	9,651	269,465	325,810	271,355	4.59	5.60		4.62
2031	9,259						392		46	9,651	286,839	351,820	289,018	4.59	5.60		4.62
2032	9,259						392		46	9,651	295,925	368,972	298,375	4.59	5.60		4.62
2033	9,259						392		46	9,651	298,487	372,549	300,971	4.59	5.60		4.62
2034	9,259						392		46	9,651	298,487	372,549	300,971	4.59	5.60		4.62

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

**PROGRAM: Nonresidential Prescriptive Program**  
**DSM Phase VI Program**  
**Type: Energy Efficiency**  
**Program Measure Life: 6.3 years (6 years, 4 months)**

Table 1		Participation Program Participants												
Month	Year	VA					NC					System		
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	System Cum for IRP E+G		
December	2015													
January	2016													
February	2016													
March	2016													
April	2016													
May	2016													
June	2016													
July	2016													
August	2016													
September	2016													
October	2016													
November	2016													
December	2016													
January	2017	0		0		0	0	0	0	0	0	0	0	
February	2017	0		0		0	0	0	0	0	0	0	0	
March	2017	0		0		0	0	0	0	0	0	0	0	
April	2017	0		0		0	0	0	0	0	0	0	0	
May	2017	0		0		0	0	0	0	0	0	0	0	
June	2017	0		0		0	0	0	0	0	0	0	0	
July	2017	0		0		0	0	0	0	0	0	0	0	
August	2017	0		0		0	0	0	0	0	0	0	0	
September	2017	0		0		0	0	0	0	0	0	0	0	
October	2017	0		0		0	0	0	0	0	0	0	0	
November	2017	0		0		0	0	0	0	0	0	0	0	
December	2017	4		4		4	0	0	0	0	0	0	4	
January	2018	49		53		53	0	0	0	0	0	0	53	
February	2018	181		234		234	0	0	0	0	0	0	234	
March	2018	115		349		349	0	0	0	0	0	0	349	
April	2018	56		405		405	0	0	0	0	0	0	405	
May	2018	123		528		528	0	0	0	0	0	0	528	
June	2018	100		628		628	0	0	0	0	0	0	628	
July	2018	64		692		692	0	0	0	0	0	0	692	
August	2018	47		739		739	0	0	0	0	0	0	739	
September	2018	83		822		822	0	0	0	0	0	0	822	
October	2018	11		833		833	0	0	0	0	0	0	833	
November	2018	21		854		854	11	0	11	0	11	0	865	
December	2018	15		869		869	10	0	21	0	21	0	890	
January	2019	5		874		874	3	0	24	0	24	0	898	
February	2019	36		910		910	16	0	40	0	40	0	950	
March	2019	73		983		983	6	0	46	0	46	0	1,029	
April	2019	60		1,043		1,043	7	0	53	0	53	0	1,096	
May	2019	66		1,109		1,109	1	0	54	0	54	0	1,163	
June	2019	39		1,148		1,148	0	0	54	0	54	0	1,202	
July	2019	40		1,188		1,188	0	0	54	0	54	0	1,242	
August	2019	39		1,227		1,227	0	0	54	0	54	0	1,281	
September	2019	38		1,265		1,265	0	0	54	0	54	0	1,319	
October	2019	103		1,368		1,368	2	0	56	2	56	2	1,424	
November	2019	108		1,476		1,476	1	0	57	3	57	3	1,533	
December	2019	59		1,535		1,535	0	0	57	0	57	0	1,592	
January	2020			1,535		1,535			57		57		1,592	
February	2020			1,535		1,535			57		57		1,592	
March	2020			1,535		1,535			57		57		1,592	
April	2020			1,535		1,535			57		57		1,592	
May	2020			1,535		1,535			57		57		1,592	
June	2020			1,535		1,535			57		57		1,592	
July	2020			1,535		1,535			57		57		1,592	
August	2020			1,535		1,535			57		57		1,592	
September	2020			1,535		1,535			57		57		1,592	
October	2020			1,535		1,535			57		57		1,592	
November	2020			1,535		1,535			57		57		1,592	
December	2020			1,535		1,535			57		57		1,592	

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Energy Savings Gross kWh										
Month	Year	VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
December	2015											
January	2016											
February	2016											
March	2016											
April	2016											
May	2016											
June	2016											
July	2016											
August	2016											
September	2016											
October	2016											
November	2016											
December	2016											
January	2017	0		0		0	0		0		0	0
February	2017	0		0		0	0		0		0	0
March	2017	0		0		0	0		0		0	0
April	2017	0		0		0	0		0		0	0
May	2017	0		0		0	0		0		0	0
June	2017	0		0		0	0		0		0	0
July	2017	0		0		0	0		0		0	0
August	2017	0		0		0	0		0		0	0
September	2017	0		0		0	0		0		0	0
October	2017	0		0		0	0		0		0	0
November	2017	0		0		0	0		0		0	0
December	2017	58		58		58	0		0		0	58
January	2018	12,832		12,890		12,890	0		0		0	12,890
February	2018	121,049		133,939		133,939	0		0		0	133,939
March	2018	55,721		189,660		189,660	0		0		0	189,660
April	2018	34,667		224,327		224,327	0		0		0	224,327
May	2018	82,051		306,378		306,378	0		0		0	306,378
June	2018	66,481		372,858		372,858	0		0		0	372,858
July	2018	92,006		464,864		464,864	0		0		0	464,864
August	2018	34,380		499,244		499,244	0		0		0	499,244
September	2018	64,055		563,299		563,299	0		0		0	563,299
October	2018	10,406		573,706		573,706	0		0		0	573,706
November	2018	3,277		576,983		576,983	13,365		13,365		13,365	590,348
December	2018	8,339		585,322		585,322	5,117		18,482		18,482	603,804
January	2019	482		585,805		585,805	6,563		25,044		25,044	610,849
February	2019	31,581		617,386		617,386	6,067		31,112		31,112	648,497
March	2019	71,297		688,683		688,683	3,315		34,427		34,427	723,109
April	2019	20,708		709,390		709,390	2,075		36,502		36,502	745,892
May	2019	38,820		748,210		748,210	38		36,540		36,540	784,750
June	2019	14,225		762,435		762,435	0		36,540		36,540	798,975
July	2019	36,973		799,408		799,408	0		36,540	0	36,540	835,948
August	2019	37,857		837,265		837,265	0		36,540	0	36,540	873,805
September	2019	24,992		862,257		862,257	0		36,540	0	36,540	898,797
October	2019	34,512		896,769		896,769	853		37,393	853	37,393	934,162
November	2019	40,855		937,624		937,624	71		37,464	924	37,464	975,088
December	2019	14,694		952,318		952,318	0		37,464		37,464	989,782
January	2020			952,318		952,318			37,464		37,464	989,782
February	2020			952,318		952,318			37,464		37,464	989,782
March	2020			952,318		952,318			37,464		37,464	989,782
April	2020			952,318		952,318			37,464		37,464	989,782
May	2020			952,318		952,318			37,464		37,464	989,782
June	2020			952,318		952,318			37,464		37,464	989,782
July	2020			952,318		952,318			37,464		37,464	989,782
August	2020			952,318		952,318			37,464		37,464	989,782
September	2020			952,318		952,318			37,464		37,464	989,782
October	2020			952,318		952,318			37,464		37,464	989,782
November	2020			952,318		952,318			37,464		37,464	989,782
December	2020			952,318		952,318			37,464		37,464	989,782

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA					NC					System	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
December	2015																	
January	2016																	
February	2016																	
March	2016																	
April	2016																	
May	2016																	
June	2016																	
July	2016																	
August	2016																	
September	2016																	
October	2016																	
November	2016																	
December	2016																	
January	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
February	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
March	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
April	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
May	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
June	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
July	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
August	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
September	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
October	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
November	2017	0.00		0.00		0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-
December	2017	0.08		0.08		0.08	0.00	0.00	0	0	0	0	15	-	15	0.02	-	0.02
January	2018	23		23		23.24	0.00	0.00	0	0	0	23	243	-	243	0.44	-	0.44
February	2018	415		438		438.20	0.00	0.00	0	0	0	438	572	-	572	1.87	-	1.87
March	2018	222		660		659.98	0.00	0.00	0	0	0	660	543	-	543	1.89	-	1.89
April	2018	140		800		799.66	0.00	0.00	0	0	0	800	554	-	554	1.97	-	1.97
May	2018	206		1,005		1,005.33	0.00	0.00	0	0	0	1,005	580	-	580	1.90	-	1.90
June	2018	143		1,149		1,148.66	0.00	0.00	0	0	0	1,149	594	-	594	1.83	-	1.83
July	2018	298		1,446		1,446.23	0.00	0.00	0	0	0	1,446	672	-	672	2.09	-	2.09
August	2018	1,666		3,112		3,111.78	0.00	0.00	0	0	0	3,112	676	-	676	4.21	-	4.21
September	2018	172		3,284		3,283.53	0.00	0.00	0	0	0	3,284	685	-	685	3.99	-	3.99
October	2018	58		3,341		3,341.10	0.00	0.00	0	0	0	3,341	689	-	689	4.01	-	4.01
November	2018	4		3,345		3,344.92	18.25	18.25	18	18	18	3,363	676	1,215	682	3.92	1.66	3.89
December	2018	22		3,366		3,366.46	7.00	7.00	25	25	25	3,392	674	880	678	3.87	1.20	3.81
January	2019	2		3,368		3,368.42	8.91	8.91	34	34	34	3,403	670	1,044	680	3.85	1.42	3.79
February	2019	173		3,542		3,541.90	8.35	8.35	43	43	43	3,584	678	778	683	3.89	1.06	3.77
March	2019	1,470		5,012		5,012.36	4.54	4.54	47	47	47	5,059	701	748	703	5.10	1.02	4.92
April	2019	156		5,169		5,168.63	2.85	2.85	50	50	50	5,219	680	689	681	4.96	0.94	4.76
May	2019	377		5,546		5,546.11	0.05	0.05	50	50	50	5,596	675	677	675	5.00	0.93	4.81
June	2019	139		5,685		5,684.68	0.00	0.00	50	50	50	5,735	664	677	665	4.95	0.93	4.77
July	2019	173		5,857		5,857.38	0.00	0.00	50	50	50	5,907	673	677	673	4.93	0.93	4.76
August	2019	163		6,021		6,020.73	0.00	0.00	50	50	50	6,071	682	677	682	4.91	0.93	4.74
September	2019	80		6,101		6,101.03	0.00	0.00	50	50	50	6,151	682	677	681	4.82	0.93	4.66
October	2019	195		6,296		6,296.22	4.54	4.54	54	54	54	6,351	656	668	656	4.60	0.97	4.46
November	2019	343		6,639		6,639.17	1.13	1.13	56	56	56	6,695	635	657	636	4.50	0.98	4.37
December	2019	112		6,752		6,751.65	0.00	0.00	56	56	56	6,807	620	657	622	4.40	0.98	4.28
January	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
February	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
March	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
April	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
May	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
June	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
July	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
August	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
September	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
October	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
November	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28
December	2020			6,752		6,751.65			56	56	56	6,807	620	657	622	4.40	0.98	4.28

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Participation										
Month	Year	Program Participants				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2021			1,535		1,535			57		3	1,592
February	2021			1,535		1,535			57		3	1,592
March	2021			1,535		1,535			57		3	1,592
April	2021			1,535		1,535			57		3	1,592
May	2021			1,535		1,535			57		3	1,592
June	2021			1,535		1,535			57		3	1,592
July	2021			1,535		1,535			57		3	1,592
August	2021			1,535		1,535			57		3	1,592
September	2021			1,535		1,535			57		3	1,592
October	2021			1,535		1,535			57		3	1,592
November	2021			1,535		1,535			57		3	1,592
December	2021			1,535		1,535			57		3	1,592
January	2022			1,535		1,535			57		3	1,592
February	2022			1,535		1,535			57		3	1,592
March	2022			1,535		1,535			57		3	1,592
April	2022			1,535		1,535			57		3	1,592
May	2022			1,535		1,535			57		3	1,592
June	2022			1,535		1,535			57		3	1,592
July	2022			1,535		1,535			57		3	1,592
August	2022			1,535		1,535			57		3	1,592
September	2022			1,535		1,535			57		3	1,592
October	2022			1,535		1,535			57		3	1,592
November	2022			1,535		1,535			57		3	1,592
December	2022			1,535		1,535			57		3	1,592
January	2023			1,535		1,535			57		3	1,592
February	2023			1,535		1,535			57		3	1,592
March	2023			1,535		1,535			57		3	1,592
April	2023			1,535		1,535			57		3	1,592
May	2023			1,535		1,535			57		3	1,592
June	2023			1,535		1,535			57		3	1,592
July	2023			1,535		1,535			57		3	1,592
August	2023			1,535		1,535			57		3	1,592
September	2023			1,535		1,535			57		3	1,592
October	2023			1,535		1,535			57		3	1,592
November	2023			1,535		1,535			57		3	1,592
December	2023			1,535		1,535			57		3	1,592
January	2024			1,535		1,535			57		3	1,592
February	2024			1,535		1,535			57		3	1,592
March	2024		-4	1,531		1,531			57		3	1,588
April	2024		-49	1,482		1,482			57		3	1,539
May	2024		-181	1,301		1,301			57		3	1,358
June	2024		-115	1,186		1,186			57		3	1,243
July	2024		-56	1,130		1,130			57		3	1,187
August	2024		-123	1,007		1,007			57		3	1,064
September	2024		-100	907		907			57		3	964
October	2024		-64	843		843			57		3	900
November	2024		-47	796		796			57		3	853
December	2024		-83	713		713			57		3	770
January	2025		-11	702		702			57		3	759
February	2025		-21	681		681		-11	46		-8	727
March	2025		-15	666		666		-10	36		-18	702
April	2025		-5	661		661		-3	33		-21	694
May	2025		-36	625		625		-16	17		-37	642
June	2025		-73	552		552		-6	11		-43	563
July	2025		-60	492		492		-7	4		-50	496
August	2025		-66	426		426		-1	3		-51	429
September	2025		-39	387		387		0	3		-51	390
October	2025		-40	347		347		0	3		-51	350
November	2025		-39	308		308		0	3		-51	311
December	2025		-38	270		270		0	3		-51	273

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2021			952,318		952,318			37,464		924	989,782
February	2021			952,318		952,318			37,464		924	989,782
March	2021			952,318		952,318			37,464		924	989,782
April	2021			952,318		952,318			37,464		924	989,782
May	2021			952,318		952,318			37,464		924	989,782
June	2021			952,318		952,318			37,464		924	989,782
July	2021			952,318		952,318			37,464		924	989,782
August	2021			952,318		952,318			37,464		924	989,782
September	2021			952,318		952,318			37,464		924	989,782
October	2021			952,318		952,318			37,464		924	989,782
November	2021			952,318		952,318			37,464		924	989,782
December	2021			952,318		952,318			37,464		924	989,782
January	2022			952,318		952,318			37,464		924	989,782
February	2022			952,318		952,318			37,464		924	989,782
March	2022			952,318		952,318			37,464		924	989,782
April	2022			952,318		952,318			37,464		924	989,782
May	2022			952,318		952,318			37,464		924	989,782
June	2022			952,318		952,318			37,464		924	989,782
July	2022			952,318		952,318			37,464		924	989,782
August	2022			952,318		952,318			37,464		924	989,782
September	2022			952,318		952,318			37,464		924	989,782
October	2022			952,318		952,318			37,464		924	989,782
November	2022			952,318		952,318			37,464		924	989,782
December	2022			952,318		952,318			37,464		924	989,782
January	2023			952,318		952,318			37,464		924	989,782
February	2023			952,318		952,318			37,464		924	989,782
March	2023			952,318		952,318			37,464		924	989,782
April	2023			952,318		952,318			37,464		924	989,782
May	2023			952,318		952,318			37,464		924	989,782
June	2023			952,318		952,318			37,464		924	989,782
July	2023			952,318		952,318			37,464		924	989,782
August	2023			952,318		952,318			37,464		924	989,782
September	2023			952,318		952,318			37,464		924	989,782
October	2023			952,318		952,318			37,464		924	989,782
November	2023			952,318		952,318			37,464		924	989,782
December	2023			952,318		952,318			37,464		924	989,782
January	2024			952,318		952,318			37,464		924	989,782
February	2024			952,318		952,318			37,464		924	989,782
March	2024		-58	952,260		952,260			37,464		924	989,724
April	2024		-12,832	939,428		939,428			37,464		924	976,892
May	2024		-121,049	818,379		818,379			37,464		924	855,842
June	2024		-55,721	762,658		762,658			37,464		924	800,122
July	2024		-34,667	727,991		727,991			37,464		924	765,455
August	2024		-82,051	645,940		645,940			37,464		924	683,404
September	2024		-66,481	579,460		579,460			37,464		924	616,923
October	2024		-92,006	487,454		487,454			37,464		924	524,918
November	2024		-34,380	453,074		453,074			37,464		924	490,538
December	2024		-64,055	389,018		389,018			37,464		924	426,482
January	2025		-10,406	378,612		378,612			37,464		924	416,076
February	2025		-3,277	375,335		375,335		-13,365	24,099		-12,441	399,434
March	2025		-8,339	366,996		366,996		-5,117	18,982		-17,558	385,978
April	2025		-482	366,513		366,513		-6,563	12,419		-24,121	378,933
May	2025		-31,581	334,932		334,932		-6,067	6,352		-30,188	341,284
June	2025		-71,297	263,635		263,635		-3,315	3,037		-33,503	266,673
July	2025		-20,708	242,928		242,928		-2,075	962		-35,578	243,890
August	2025		-38,820	204,108		204,108		-38	924		-35,616	205,032
September	2025		-14,225	189,883		189,883		0	924		-35,616	190,807
October	2025		-36,973	152,910		152,910		0	924		-35,616	153,834
November	2025		-37,857	115,053		115,053		0	924		-35,616	115,977
December	2025		-24,992	90,061		90,061		0	924		-35,616	90,985

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA				NC						System	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
February	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
March	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
April	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
May	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
June	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
July	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
August	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
September	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
October	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
November	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
December	2021			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
January	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
February	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
March	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
April	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
May	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
June	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
July	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
August	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
September	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
October	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
November	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
December	2022			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
January	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
February	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
March	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
April	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
May	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
June	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
July	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
August	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
September	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
October	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
November	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
December	2023			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
January	2024			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
February	2024			6,752		6,751.65			56		6	6,807	620	657	622	4.40	0.98	4.28
March	2024		-0.08	6,752		6,751.57			56		6	6,807	622	657	623	4.41	0.98	4.29
April	2024		-23.16	6,728		6,728.41			56		6	6,784	634	657	635	4.54	0.98	4.41
May	2024		-415	6,313		6,313.45			56		6	6,369	629	657	630	4.85	0.98	4.69
June	2024		-222	6,092		6,091.68			56		6	6,147	643	657	644	5.14	0.98	4.95
July	2024		-140	5,952		5,951.99			56		6	6,008	644	657	645	5.27	0.98	5.06
August	2024		-206	5,746		5,746.33			56		6	5,802	641	657	642	5.71	0.98	5.45
September	2024		-143	5,603		5,602.99			56		6	5,659	639	657	640	6.18	0.98	5.87
October	2024		-298	5,305		5,305.42			56		6	5,361	578	657	583	6.29	0.98	5.96
November	2024		-1,666	3,640		3,639.87			56		6	3,696	569	657	575	4.57	0.98	4.33
December	2024		-172	3,468		3,468.12			56		6	3,524	546	657	554	4.86	0.98	4.58
January	2025		-58	3,411		3,410.55			56		6	3,466	539	657	548	4.86	0.98	4.57
February	2025		-4	3,407		3,406.73		-18.25	37		-13	3,444	551	524	549	5.00	0.81	4.74
March	2025		-22	3,385		3,385.19		-7.00	30		-20	3,416	551	527	550	5.08	0.84	4.87
April	2025		-2	3,383		3,383.23		-8.91	21		-28	3,405	554	376	546	5.12	0.65	4.91
May	2025		-173	3,210		3,209.76		-8.35	13		-37	3,223	536	374	532	5.14	0.77	5.02
June	2025		-1,470	1,739		1,739.30		-4.54	9		-41	1,748	478	276	474	3.15	0.78	3.10
July	2025		-156	1,583		1,583.02		-2.85	6		-44	1,589	494	241	492	3.22	1.43	3.20
August	2025		-377	1,206		1,205.54		-0.05	6		-44	1,211	479	308	478	2.83	1.89	2.82
September	2025		-139	1,067		1,066.97		0.00	6		-44	1,073	491	308	489	2.76	1.89	2.75
October	2025		-173	894		894.27		0.00	6		-44	900	441	308	440	2.58	1.89	2.57
November	2025		-163	731		730.92		0.00	6		-44	737	374	308	373	2.37	1.89	2.37
December	2025		-80	651		650.62		0.00	6		-44	656	334	308	333	2.41	1.89	2.40

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Participation										
Month	Year	Program Participants					System					
		VA		VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)			NC		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)			System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2026		-103	167		167		-2	1		-53	168
February	2026		-108	59		59		-1	0		-54	59
March	2026		-59	0		0		0	0		-54	0
April	2026		0	0		0		0	0		-54	0
May	2026		0	0		0		0	0		-54	0
June	2026		0	0		0		0	0		-54	0
July	2026		0	0		0		0	0		-54	0
August	2026		0	0		0		0	0		-54	0
September	2026		0	0		0		0	0		-54	0
October	2026		0	0		0		0	0		-54	0
November	2026		0	0		0		0	0		-54	0
December	2026		0	0		0		0	0		-54	0
January	2027		0	0		0		0	0		-54	0
February	2027		0	0		0		0	0		-54	0
March	2027		0	0		0		0	0		-54	0
April	2027		0	0		0		0	0		-54	0
May	2027		0	0		0		0	0		-54	0
June	2027		0	0		0		0	0		-54	0
July	2027		0	0		0		0	0		-54	0
August	2027		0	0		0		0	0		-54	0
September	2027		0	0		0		0	0		-54	0
October	2027		0	0		0		0	0		-54	0
November	2027		0	0		0		0	0		-54	0
December	2027		0	0		0		0	0		-54	0
January	2028		0	0		0		0	0		-54	0
February	2028		0	0		0		0	0		-54	0
March	2028		0	0		0		0	0		-54	0
April	2028		0	0		0		0	0		-54	0
May	2028		0	0		0		0	0		-54	0
June	2028		0	0		0		0	0		-54	0
July	2028		0	0		0		0	0		-54	0
August	2028		0	0		0		0	0		-54	0
September	2028		0	0		0		0	0		-54	0
October	2028		0	0		0		0	0		-54	0
November	2028		0	0		0		0	0		-54	0
December	2028		0	0		0		0	0		-54	0

Table 2. EM&V Data Incremental by Vintage Year										
	Program Participants									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP					
2016	-	-	-	-	-					
2017	4	4	-	-	4					
2018	865	865	21	21	886					
2019	666	666	36	3	702					



## Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2026		-34,512	55,549		55,549		-853	71		-36,469	55,620
February	2026		-40,855	14,694		14,694		-71	0		-36,540	14,694
March	2026		-14,694	0		0		0	0		-36,540	0
April	2026		0	0		0		0	0		-36,540	0
May	2026		0	0		0		0	0		-36,540	0
June	2026		0	0		0		0	0		-36,540	0
July	2026		0	0		0		0	0		-36,540	0
August	2026		0	0		0		0	0		-36,540	0
September	2026		0	0		0		0	0		-36,540	0
October	2026		0	0		0		0	0		-36,540	0
November	2026		0	0		0		0	0		-36,540	0
December	2026		0	0		0		0	0		-36,540	0
January	2027		0	0		0		0	0		-36,540	0
February	2027		0	0		0		0	0		-36,540	0
March	2027		0	0		0		0	0		-36,540	0
April	2027		0	0		0		0	0		-36,540	0
May	2027		0	0		0		0	0		-36,540	0
June	2027		0	0		0		0	0		-36,540	0
July	2027		0	0		0		0	0		-36,540	0
August	2027		0	0		0		0	0		-36,540	0
September	2027		0	0		0		0	0		-36,540	0
October	2027		0	0		0		0	0		-36,540	0
November	2027		0	0		0		0	0		-36,540	0
December	2027		0	0		0		0	0		-36,540	0
January	2028		0	0		0		0	0		-36,540	0
February	2028		0	0		0		0	0		-36,540	0
March	2028		0	0		0		0	0		-36,540	0
April	2028		0	0		0		0	0		-36,540	0
May	2028		0	0		0		0	0		-36,540	0
June	2028		0	0		0		0	0		-36,540	0
July	2028		0	0		0		0	0		-36,540	0
August	2028		0	0		0		0	0		-36,540	0
September	2028		0	0		0		0	0		-36,540	0
October	2028		0	0		0		0	0		-36,540	0
November	2028		0	0		0		0	0		-36,540	0
December	2028		0	0		0		0	0		-36,540	0

Table 2. EM&V Data Incremental by Vintage Year											
	Gross Incremental Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016			-		-			-		-	-
2017			58		58			-		-	58
2018			4,502,772		4,502,772			31,847		31,847	4,534,619
2019			2,373,681		2,373,681			200,327		164,210	2,574,007

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System		VA	NC	System	VA	NC	System
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA						
January	2026		-195	455		455.43		-4.54	1	-49	457	333	71	331	2.73	1.13	2.72
February	2026		-343	112		112.48		-1.13	0	-50	112	249	-	249	1.91	-	1.91
March	2026		-112	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
April	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
May	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
June	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
July	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
August	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
September	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
October	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
November	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
December	2026		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
January	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
February	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
March	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
April	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
May	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
June	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
July	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
August	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
September	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
October	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
November	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
December	2027		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
January	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
February	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
March	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
April	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
May	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
June	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
July	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
August	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
September	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
October	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
November	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-
December	2028		0	0		0.00		0.00	0	-50	0	-	-	-	-	-	-

Table 2. EM&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	VA	NC	System	
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	0.08	0.08	-	-	0.08	15	-	15	0.02	-	-	0.02	-	0.02	
2018	3,366	3,366	25	25	3,392	5,206	1,516.50	5,118	3.89	1.20	3.83	5.08	0.84	4.87	
2019	3,385	3,385	30	6	3,416	3,564	5,564.63	3,667	5.08	0.84	4.87	5.08	0.84	4.87	

## Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 3. EM&V Data Annualized by Vintage Year											
	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016			-		-			-		-	-
2017			4		4			-		-	4
2018			865		865			21		21	886
2019			666		666			36		3	702

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											
	Program Participants										
		VA						NC PPI			System
2016								-			
2017								-			
2018								21			
2019								57			
2020								57			
2021								36			
2022								-			

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											
	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2016			-		-			-		-	-
2017			4		4			-		-	4
2018			869		869			21		21	890
2019			1,535		1,535			57		3	1,592
2020			1,535		1,535			57		3	1,592
2021			1,535		1,535			57		3	1,592
2022			1,535		1,535			57		3	1,592
2023			1,535		1,535			57		3	1,592
2024			713		713			57		3	770
2025			270		270			3		-	273
2026			-		-			-		-	-
2027			-		-			-		-	-
2028			-		-			-		-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											
	Program Participants										
			VA Lifetime					NC Lifetime			System Lifetime
2016			-					-			-
2017			4					-			4
2018			869					21			890
2019			1,535					57			1,592
2020			1,535					57			1,592
2021			1,535					57			1,592
2022			1,535					57			1,592
2023			1,535					57			1,592
2024			1,535					57			1,592
2025			1,535					57			1,592
2026			1,535					57			1,592
2027			1,535					57			1,592
2028			1,535					57			1,592

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2016	-	-	-	-	-	-	-	-	-	-
2017	699	699	699	699	-	-	-	-	699	699
2018	7,023,169	7,023,169	7,023,169	7,023,169	221,779	221,779	221,779	221,779	7,244,948	7,244,948
2019	4,403,947	4,403,947	4,403,947	4,403,947	227,788	227,788	-210,693	-210,693	4,631,735	4,631,735

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross Energy (kWh) for PPI									
	VA		VA NLR		NC PPI		NC NLR		System	
2016	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	31,847	31,847	-	-	-	-
2019	-	-	-	-	422,105	422,105	-	-	-	-
2020	-	-	-	-	449,567	449,567	-	-	-	-
2021	-	-	-	-	227,788	227,788	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2016	-	-	-	-	-	-	-	-	-	-
2017	58	58	58	58	-	-	-	-	58	58
2018	4,503,471	4,503,471	4,503,471	4,503,471	31,847	31,847	31,847	31,847	4,535,318	4,535,318
2019	9,397,549	9,397,549	9,397,549	9,397,549	422,105	422,105	349,025	349,025	9,819,654	9,819,654
2020	11,427,816	11,427,816	11,427,816	11,427,816	449,567	449,567	11,086	11,086	11,877,382	11,877,382
2021	11,427,816	11,427,816	11,427,816	11,427,816	449,567	449,567	11,086	11,086	11,877,382	11,877,382
2022	11,427,816	11,427,816	11,427,816	11,427,816	449,567	449,567	11,086	11,086	11,877,382	11,877,382
2023	11,427,816	11,427,816	11,427,816	11,427,816	449,567	449,567	11,086	11,086	11,877,382	11,877,382
2024	8,660,297	8,660,297	8,660,297	8,660,297	449,567	449,567	11,086	11,086	9,109,864	9,109,864
2025	3,080,967	3,080,967	3,080,967	3,080,967	107,935	107,935	-	-	3,188,902	3,188,902
2026	70,243	70,243	70,243	70,243	71	71	-	-	70,314	70,314
2027	-	-	-	-	-	-	-	-	-	-
2028	-	-	-	-	-	-	-	-	-	-

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

	Gross Energy (kWh)									
	VA Lifetime		VA NLR		NC Lifetime		NC NLR		System Lifetime	
2016	-	-	-	-	-	-	-	-	-	-
2017	58	58	58	58	-	-	-	-	58	58
2018	4,503,530	4,503,530	4,503,530	4,503,530	31,847	31,847	31,847	31,847	4,535,376	4,535,376
2019	13,901,079	13,901,079	13,901,079	13,901,079	453,952	453,952	380,872	380,872	14,355,030	14,355,030
2020	25,328,894	25,328,894	25,328,894	25,328,894	903,518	903,518	391,958	391,958	26,232,413	26,232,413
2021	36,756,710	36,756,710	36,756,710	36,756,710	1,353,085	1,353,085	403,044	403,044	38,109,795	38,109,795
2022	48,184,526	48,184,526	48,184,526	48,184,526	1,802,652	1,802,652	414,130	414,130	49,987,177	49,987,177
2023	59,612,341	59,612,341	59,612,341	59,612,341	2,252,218	2,252,218	425,216	425,216	61,864,560	61,864,560
2024	68,272,639	68,272,639	68,272,639	68,272,639	2,701,785	2,701,785	436,302	436,302	70,974,423	70,974,423
2025	71,353,605	71,353,605	71,353,605	71,353,605	2,809,720	2,809,720	447,388	447,388	74,163,325	74,163,325
2026	71,423,848	71,423,848	71,423,848	71,423,848	2,809,791	2,809,791	458,474	458,474	74,233,639	74,233,639
2027	71,423,848	71,423,848	71,423,848	71,423,848	2,809,791	2,809,791	458,474	458,474	74,233,639	74,233,639
2028	71,423,848	71,423,848	71,423,848	71,423,848	2,809,791	2,809,791	458,474	458,474	74,233,639	74,233,639

# Appendix C.9 Non-residential Prescriptive Program 2017-2019

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2016			-		-			-		-	-	-	-	-	-	-	-
2017			0.08		0.08			-		-	0.08	175	-	175	0.02	-	0.02
2018			3,366		3,366			25		25	3,392	8,119	####	8,177	3.89	1.20	3.83
2019			3,385		3,385			30		6	3,416	6,613	6,327.44	6,598	5.08	0.84	4.87

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
	VA							NC PPI			System	VA	NC	System	VA	NC	System
2016								-			-	-	-	-	-	-	-
2017								-			-	-	-	-	-	-	-
2018								25			-	-	1,517	-	-	-	1
2019								56			-	-	7,405	-	-	-	1
2020								56			-	-	7,887	-	-	-	1
2021								30			-	-	6,327	-	-	-	1
2022								-			-	-	-	-	-	-	-

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2016			-		-			-		-	-	-	-	-	-	-	-
2017			0.08		0.08			-		-	0.08	15	-	15	0.02	-	0.02
2018			3,366		3,366			25		25	3,392	5,182	1,517	5,096	3.87	1.20	3.81
2019			6,752		6,752			56		6	6,807	6,122	7,405	6,168	4.40	0.98	4.28
2020			6,752		6,752			56		6	6,807	7,445	7,887	7,461	4.40	0.98	4.28
2021			6,752		6,752			56		6	6,807	7,445	7,887	7,461	4.40	0.98	4.28
2022			6,752		6,752			56		6	6,807	7,445	7,887	7,461	4.40	0.98	4.28
2023			6,752		6,752			56		6	6,807	7,445	7,887	7,461	4.40	0.98	4.28
2024			3,468		3,468			56		6	3,524	12,146	7,887	11,831	4.86	0.98	4.58
2025			651		651			6		-	656	11,411	35,978	11,681	2.41	1.89	2.40
2026			0		0			-		-	0	-	-	-	-	-	-
2027			0		0			-		-	0	-	-	-	-	-	-
2028			0		0			-		-	0	-	-	-	-	-	-

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA Lifetime					NC Lifetime			System Lifetime	VA	NC	System	VA	NC	System
2016			-					-			-	-	-	-	-	-	-
2017			0.08					-			0.08	15	-	15	0.02	-	0.02
2018			3,366					25			3,392	5,182	1,517	5,096	3.87	1.20	3.81
2019			6,752					56			6,807	9,056	7,964	9,017	4.40	0.98	4.28
2020			6,752					56			6,807	16,501	15,851	16,478	4.40	0.98	4.28
2021			6,752					56			6,807	23,946	23,738	23,938	4.40	0.98	4.28
2022			6,752					56			6,807	31,391	31,625	31,399	4.40	0.98	4.28
2023			6,752					56			6,807	38,835	39,513	38,860	4.40	0.98	4.28
2024			6,752					56			6,807	44,477	47,400	44,582	4.40	0.98	4.28
2025			6,752					56			6,807	46,484	49,293	46,585	4.40	0.98	4.28
2026			6,752					56			6,807	46,530	49,295	46,629	4.40	0.98	4.28
2027			6,752					56			6,807	46,530	49,295	46,629	4.40	0.98	4.28
2028			6,752					56			6,807	46,530	49,295	46,629	4.40	0.98	4.28

# Appendix C.10 Non-residential Distributed Generation Program 2012 - 2019

**PROGRAM: Non-Residential Distributed Generation DSM Phase II Program**  
**Type: Peak Shaving**  
**Program Measure Life: N/A**

Table 1		Participation			Gross Capacity Savings			Gross Capacity Savings / Participant		
Month	Year	Program Participants			Gross kW			Gross kW/participant		
		VA	NC	System	VA	NC	System	VA	NC	System
June	2012	19		19	18,810		18,810	1000		1,000
July	2012	19		19	19,040		19,040	1000		1,000
August	2012	19		19	19,040		19,040	1000		1,000
September	2012	19		19	19,040		19,040	1000		1,000
October	2012	19		19	19,040		19,040	1000		1,000
November	2012	19		19	19,040		19,040	1000		1,000
December	2012	19		19	19,040		19,040	1000		1,000
January	2013	19		19	19,310		19,310	1000		1,000
February	2013	19		19	19,310		19,310	1000		1,000
March	2013	19		19	19,310		19,310	1000		1,000
April	2013	19		19	19,310		19,310	1000		1,000
May	2013	19		19	19,310		19,310	1000		1,000
June	2013	19		19	19,310		19,310	1000		1,000
July	2013	19		19	19,410		19,410	1000		1,000
August	2013	19		19	18,980		18,980	1000		1,000
September	2013	19		19	19,000		19,000	1000		1,000
October	2013	19		19	19,410		19,410	1000		1,000
November	2013	19		19	19,410		19,410	1000		1,000
December	2013	19		19	19,410		19,410	1000		1,000
January	2014	19		19	18,810		18,810	1000		1,000
February	2014	19		19	18,810		18,810	1000		1,000
March	2014	19		19	18,810		18,810	1000		1,000
April	2014	19		19	18,810		18,810	1000		1,000
May	2014	19		19	18,810		18,810	1000		1,000
June	2014	18		18	17,600		17,600	1000		1,000
July	2014	19		19	18,810		18,810	1000		1,000
August	2014	17		17	17,060		17,060	1000		1,000
September	2014	19		19	18,580		18,580	1000		1,000
October	2014	19		19	18,580		18,580	1000		1,000
November	2014	19		19	18,580		18,580	1000		1,000
December	2014	19		19	18,580		18,580	1000		1,000
January	2015	6		6	5,588		5,588	916		916
February	2015	6		6	6,045		6,045	991		991
March	2015	6		6	5,875		5,875	963		963
April	2015	6		6	5,875		5,875	963		963
May	2015	6		6	5,875		5,875	963		963
June	2015	6		6	5,914		5,914	970		970
July	2015	6		6	5,842		5,842	958		958
August	2015	6		6	6,060		6,060	993		993
September	2015	6		6	5,973		5,973	979		979
October	2015	6		6	5,875		5,875	963		963
November	2015	6		6	5,875		5,875	963		963
December	2015	6		6	5,875		5,875	963		963
January	2016	6		6	6,180		6,180	997		997
February	2016	6		6	5,900		5,900	952		952
March	2016	0		0	0		0	-		-
April	2016	0		0	0		0	-		-
May	2016	0		0	0		0	-		-
June	2016	7		7	6,210		6,210	955		955
July	2016	7		7	4,245		4,245	653		653
August	2016	7		7	6,137		6,137	944		944
September	2016	7		7	6,460		6,460	994		994
October	2016	0		0	0		0	-		-
November	2016	0		0	0		0	-		-
December	2016	7		7	5,740		5,740	883		883
January	2017	6		6	6,130		6,130	1,005		1,005
February	2017	0		0	0		0	-		-
March	2017	0		0	0		0	-		-
April	2017	0		0	0		0	-		-
May	2017	6		6	6,030		6,030	989		989
June	2017	6		6	5,832		5,832	988		988
July	2017	6		6	5,405		5,405	916		916
August	2017	6		6	5,386		5,386	979		979
September	2017	6		6	5,563		5,563	993		993
October	2017	0		0	0		0	-		-
November	2017	0		0	0		0	-		-
December	2017	6		6	6,130		6,130	1,005		1,005

# Appendix C.10 Non-residential Distributed Generation Program 2012 - 2019

Table 1		Participation			Gross Capacity Savings			Gross Capacity Savings / Participant		
Month	Year	Program Participants			Gross kW			Gross kW/participant		
		VA	NC	System	VA	NC	System	VA	NC	System
January	2018	6		6	6,130		6,130	1,000		1,000
February	2018	6		6	6,130		6,130	1,000		1,000
March	2018	6		6	6,130		6,130	1,000		1,000
April	2018	6		6	6,130		6,130	1,000		1,000
May	2018	6		6	6,130		6,130	1,000		1,000
June	2018	6		6	6,130		6,130	1,000		1,000
July	2018	6		6	6,130		6,130	1,000		1,000
August	2018	6		6	6,130		6,130	1,000		1,000
September	2018	6		6	6,130		6,130	1,000		1,000
October	2018	6		6	6,130		6,130	1,000		1,000
November	2018	6		6	6,130		6,130	1,000		1,000
December	2018	6		6	6,130		6,130	1,000		1,000
January	2019	6		6	6,130		6,130	1,000		1,000
February	2019	6		6	6,130		6,130	1,000		1,000
March	2019	6		6	6,130		6,130	1,000		1,000
April	2019	6		6	6,130		6,130	1,000		1,000
May	2019	6		6	6,130		6,130	1,000		1,000
June	2019	6		6	6,130		6,130	1,000		1,000
July	2019	6		6	6,130		6,130	1,000		1,000
August	2019	6		6	6,130		6,130	1,000		1,000
September	2019	6		6	6,130		6,130	1,000		1,000
October	2019	6		6	6,130		6,130	1,000		1,000
November	2019	6		6	6,130		6,130	1,000		1,000
December	2019	6		6	6,130		6,130	1,000		1,000

Table 2. EM&V Data by Vintage Year	Program Participants			Annual Peak Shaving Potential			Annual Peak Shaving Potential/Participant		
	VA	NC	System	Gross kW			Gross kW/Participant		
	VA	NC	System	VA	NC	System	VA	NC	System
<b>2012</b>	19		19	19,040		19,040	1,000		1,000
<b>2013</b>	19		19	19,410		19,410	1,000		1,000
<b>2014</b>	19		19	18,580		18,580	1,000		1,000
<b>2015</b>	6		6	5,875		5,875	963		963
<b>2016</b>	7		7	5,740		5,740	883		883
<b>2017</b>	6		6	6,130		6,130	1,005		1,005
<b>2018</b>	6		6	6,130		6,130	1,000		1,000
<b>2019</b>	6		6	6,130		6,130	1,000		1,000

NOTES:

1. Non-Residential DG pilot and Program results are combined prior to 2015

# Appendix C.11 Residential Heat Pump Upgrade Program

<b>PROGRAM:</b> Residential Heat Pump Upgrade
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 15.0 years

Table 1		Participation												
Month	Year	Program Participants										System Cum for IRP		
		VA					NC						System	
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D			
October	2012	16		16		16								16
November	2012	33		49		49								49
December	2012	37		86		86								86
January	2013	34		120		120								120
February	2013	165		285		285								285
March	2013	202		487		487								487
April	2013	149		636		636								636
May	2013	261		897		897								897
June	2013	309		1,206		1,206								1,206
July	2013	465		1,671		1,671								1,671
August	2013	343		2,014		2,014								2,014
September	2013	415		2,429		2,429								2,429
October	2013	452		2,881		2,881								2,881
November	2013	176		3,057		3,057								3,057
December	2013	324		3,381		3,381								3,381
January	2014	284		3,665		3,665	0			0			0	3,665
February	2014	281		3,946		3,946	0			0			0	3,946
March	2014	254		4,200		4,200	0			0			0	4,200
April	2014	298		4,498		4,498	0			0			0	4,498
May	2014	241		4,739		4,739	0			0			0	4,739
June	2014	322		5,061		5,061	1			1			1	5,062
July	2014	586		5,647		5,647	0			1			1	5,648
August	2014	334		5,981		5,981	4			5			5	5,986
September	2014	418		6,399		6,399	5			10			10	6,409
October	2014	243		6,642		6,642	9			19			19	6,661
November	2014	169		6,811		6,811	12			31			31	6,842
December	2014	219		7,030		7,030	13			44			44	7,074
January	2015	301		7,331		7,331	34			78			78	7,409
February	2015	327		7,658		7,658	15			93			93	7,751
March	2015	258		7,916		7,916	20			113			113	8,029
April	2015	335		8,251		8,251	58			171			171	8,422
May	2015	258		8,509		8,509	57			228			228	8,737
June	2015	694		9,203		9,203	99			327			327	9,530
July	2015	459		9,662		9,662	83			410			410	10,072
August	2015	445		10,107		10,107	48			458			458	10,565
September	2015	412		10,519		10,519	103			561			561	11,080
October	2015	322		10,841		10,841	43			604			604	11,445
November	2015	289		11,130		11,130	29			633			633	11,763
December	2015	110		11,240		11,240	8			641			641	11,881
January	2016	420		11,660		11,660	23			664			664	12,324
February	2016	444		12,104		12,104	72			736			736	12,840
March	2016	415		12,519		12,519	48			784			784	13,303
April	2016	418		12,937		12,937	65			849			849	13,786
May	2016	384		13,321		13,321	44			893			893	14,214
June	2016	499		13,820		13,820	88			981			981	14,801
July	2016	598		14,418		14,418	70			1,051	70		1,051	15,469
August	2016	729		15,147		15,147	105			1,156	175		1,156	16,303
September	2016	414		15,561		15,561	37			1,193	212		1,193	16,754
October	2016	392		15,953		15,953	57			1,250	269		1,250	17,203
November	2016	470		16,423		16,423	46			1,296	315		1,296	17,719
December	2016	212		16,635		16,635	10			1,306			1,306	17,941
January	2017	828		17,463		17,463	76			1,382			1,382	18,845
February	2017	235		17,698		17,698	36			1,418			1,418	19,116
March	2017	86		17,784		17,784	6			1,424			1,424	19,208
April	2017	0		17,784		17,784	0			1,424			1,424	19,208
May	2017	0		17,784		17,784	0			1,424			1,424	19,208
June	2017	0		17,784		17,784	0			1,424			1,424	19,208
July	2017	0		17,784		17,784	0			1,424			1,424	19,208
August	2017	0		17,784		17,784	0			1,424			1,424	19,208
September	2017	0		17,784		17,784	0			1,424			1,424	19,208
October	2017	0		17,784		17,784	0			1,424			1,424	19,208
November	2017	0		17,784		17,784	0			1,424			1,424	19,208
December	2017	0		17,784		17,784	0			1,424			1,424	19,208



# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Energy Savings												
Month	Year	Gross kWh										System		
		VA					NC							
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP	
October	2012	3,417		3,417		3,417								3,417
November	2012	6,826		10,244		10,244								10,244
December	2012	6,377		16,621		16,621								16,621
January	2013	4,859		21,479		21,479								21,479
February	2013	28,816		50,295		50,295								50,295
March	2013	34,445		84,740		84,740								84,740
April	2013	24,175		108,915		108,915								108,915
May	2013	44,920		153,835		153,835								153,835
June	2013	52,727		206,562		206,562								206,562
July	2013	80,429		286,990		286,990								286,990
August	2013	56,622		343,612		343,612								343,612
September	2013	70,495		414,108		414,108								414,108
October	2013	69,869		483,977		483,977								483,977
November	2013	30,779		514,756		514,756								514,756
December	2013	57,339		572,095		572,095								572,095
January	2014	44,016		616,112		616,112	0			0			0	616,112
February	2014	40,377		656,489		656,489	0			0			0	656,489
March	2014	38,899		695,388		695,388	0			0			0	695,388
April	2014	46,218		741,605		741,605	0			0			0	741,605
May	2014	34,718		776,323		776,323	0			0			0	776,323
June	2014	49,271		825,594		825,594	330			330			330	825,924
July	2014	63,943		889,537		889,537	0			330			330	889,867
August	2014	38,350		927,887		927,887	537			867			867	928,754
September	2014	46,188		974,075		974,075	837			1,704			1,704	975,779
October	2014	27,948		1,002,023		1,002,023	767			2,472			2,472	1,004,495
November	2014	18,038		1,020,061		1,020,061	1,496			3,968			3,968	1,024,029
December	2014	24,284		1,044,345		1,044,345	2,070			6,037			6,037	1,050,383
January	2015	16,285		1,060,631		1,060,631	2,013			8,051			8,051	1,068,681
February	2015	17,549		1,078,179		1,078,179	3,274			11,325			11,325	1,089,504
March	2015	12,676		1,090,856		1,090,856	428			11,753			11,753	1,102,609
April	2015	14,244		1,105,100		1,105,100	2,635			14,387			14,387	1,119,488
May	2015	13,679		1,118,780		1,118,780	2,502			16,889			16,889	1,135,669
June	2015	32,176		1,150,956		1,150,956	2,970			19,859			19,859	1,170,814
July	2015	22,577		1,173,533		1,173,533	2,536			22,395			22,395	1,195,928
August	2015	19,261		1,192,794		1,192,794	1,189			23,584			23,584	1,216,378
September	2015	18,266		1,211,060		1,211,060	3,022			26,606			26,606	1,237,666
October	2015	13,549		1,224,609		1,224,609	1,651			28,257			28,257	1,252,866
November	2015	14,223		1,238,832		1,238,832	987			29,243			29,243	1,268,075
December	2015	6,010		1,244,841		1,244,841	308			29,552			29,552	1,274,393
January	2016	22,066		1,266,907		1,266,907	817			30,369			30,369	1,297,276
February	2016	22,639		1,289,546		1,289,546	3,600			33,969			33,969	1,323,515
March	2016	17,105		1,306,651		1,306,651	1,545			35,514			35,514	1,342,164
April	2016	17,926		1,324,576		1,324,576	1,732			37,245			37,245	1,361,822
May	2016	18,880		1,343,456		1,343,456	1,668			38,913			38,913	1,382,369
June	2016	22,911		1,366,368		1,366,368	4,151			43,064			43,064	1,409,432
July	2016	27,659		1,394,026		1,394,026	2,176			45,241	2,176		45,241	1,439,267
August	2016	33,806		1,427,833		1,427,833	3,910			49,151	6,086		49,151	1,476,984
September	2016	20,800		1,448,632		1,448,632	1,380			50,531	7,466		50,531	1,499,163
October	2016	17,989		1,466,621		1,466,621	2,161			52,692	9,628		52,692	1,519,313
November	2016	24,720		1,491,341		1,491,341	2,901			55,593	12,529		55,593	1,546,934
December	2016	9,521		1,500,861		1,500,861	423			56,016			56,016	1,556,878
January	2017	33,627		1,534,488		1,534,488	3,507			59,523			59,523	1,594,012
February	2017	9,579		1,544,067		1,544,067	1,335			60,858			60,858	1,604,925
March	2017	2,956		1,547,023		1,547,023	416			61,274			61,274	1,608,297
April	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
May	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
June	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
July	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
August	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
September	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
October	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
November	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297
December	2017	0		1,547,023		1,547,023	0			61,274			61,274	1,608,297

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	VA
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
October	2012	10		10		10					10	214		214	0.61		0.61	
November	2012	23		33		33					33	209		209	0.67		0.67	
December	2012	26		59		59					59	193		193	0.69		0.69	
January	2013	24		83		83					83	179		179	0.69		0.69	
February	2013	125		208		208					208	176		176	0.73		0.73	
March	2013	151		358		358					358	174		174	0.74		0.74	
April	2013	113		471		471					471	171		171	0.74		0.74	
May	2013	206		677		677					677	171		171	0.76		0.76	
June	2013	234		911		911					911	171		171	0.76		0.76	
July	2013	328		1,239		1,239					1,239	172		172	0.74		0.74	
August	2013	243		1,482		1,482					1,482	171		171	0.74		0.74	
September	2013	297		1,779		1,779					1,779	170		170	0.73		0.73	
October	2013	310		2,089		2,089					2,089	168		168	0.73		0.73	
November	2013	116		2,205		2,205					2,205	168		168	0.72		0.72	
December	2013	248		2,453		2,453					2,453	169		169	0.73		0.73	
January	2014	217		2,670		2,670	0		0		2,670	168		168	0.73		0.73	
February	2014	193		2,863		2,863	0		0		2,863	166		166	0.73		0.73	
March	2014	192		3,055		3,055	0		0		3,055	166		166	0.73		0.73	
April	2014	219		3,275		3,275	0		0		3,275	165		165	0.73		0.73	
May	2014	178		3,453		3,453	0		0		3,453	164		164	0.73		0.73	
June	2014	242		3,695		3,695	1		1		3,696	163	330	163	0.73	0.84	0.73	
July	2014	249		3,943		3,943	0		1		3,944	158	330	158	0.70	1.00	0.70	
August	2014	158		4,102		4,102	1		2		4,104	155	173	155	0.69	0.42	0.69	
September	2014	190		4,291		4,291	1		3		4,294	152	170	152	0.67	0.28	0.67	
October	2014	133		4,424		4,424	4		7		4,431	151	130	151	0.67	0.34	0.67	
November	2014	88		4,512		4,512	2		8		4,521	150	128	150	0.66	0.27	0.66	
December	2014	110		4,622		4,622	11		19		4,641	149	137	148	0.66	0.44	0.66	
January	2015	38		4,660		4,660	6		25		4,685	145	103	144	0.64	0.32	0.63	
February	2015	36		4,696		4,696	5		30		4,726	141	122	141	0.61	0.32	0.61	
March	2015	32		4,727		4,727	2		32		4,759	138	104	137	0.60	0.28	0.59	
April	2015	36		4,763		4,763	5		36		4,800	134	84	133	0.58	0.21	0.57	
May	2015	34		4,797		4,797	6		42		4,840	131	74	130	0.56	0.19	0.55	
June	2015	75		4,873		4,873	8		51		4,923	125	61	123	0.53	0.15	0.52	
July	2015	48		4,921		4,921	7		57		4,979	121	55	119	0.51	0.14	0.49	
August	2015	47		4,968		4,968	3		61		5,029	118	51	115	0.49	0.13	0.48	
September	2015	43		5,011		5,011	8		69		5,079	115	47	112	0.48	0.12	0.46	
October	2015	33		5,044		5,044	4		73		5,117	113	47	109	0.47	0.12	0.45	
November	2015	35		5,079		5,079	3		76		5,155	111	46	108	0.46	0.12	0.44	
December	2015	15		5,094		5,094	1		77		5,171	111	46	107	0.45	0.12	0.44	
January	2016	46		5,140		5,140	2		79		5,219	109	46	105	0.44	0.12	0.42	
February	2016	58		5,198		5,198	9		88		5,286	107	46	103	0.43	0.12	0.41	
March	2016	45		5,243		5,243	5		93		5,336	104	45	101	0.42	0.12	0.40	
April	2016	47		5,290		5,290	6		99		5,390	102	44	99	0.41	0.12	0.39	
May	2016	44		5,334		5,334	5		104		5,438	101	44	97	0.40	0.12	0.38	
June	2016	59		5,392		5,392	9		114		5,506	99	44	95	0.39	0.12	0.37	
July	2016	69		5,461		5,461	6		119	6	5,581	97	43	93	0.38	0.11	0.36	
August	2016	83		5,544		5,544	11		130	17	5,674	94	43	91	0.37	0.11	0.35	
September	2016	46		5,590		5,590	3		134	20	5,724	93	42	89	0.36	0.11	0.34	
October	2016	46		5,637		5,637	5		138	25	5,775	92	42	88	0.35	0.11	0.34	
November	2016	59		5,695		5,695	6		144	31	5,839	91	43	87	0.35	0.11	0.33	
December	2016	23		5,719		5,719	1		145		5,864	90	43	87	0.34	0.11	0.33	
January	2017	94		5,813		5,813	11		156		5,969	88	43	85	0.33	0.11	0.32	
February	2017	25		5,838		5,838	3		159		5,997	87	43	84	0.33	0.11	0.31	
March	2017	11		5,848		5,848	1		160		6,008	87	43	84	0.33	0.11	0.31	
April	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
May	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
June	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
July	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
August	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
September	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
October	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
November	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	
December	2017	0		5,848		5,848	0		160		6,008	87	43	84	0.33	0.11	0.31	

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2018	0		17,784		17,784	0		1,424		443	19,208
February	2018	0		17,784		17,784	0		1,424		443	19,208
March	2018	0		17,784		17,784	0		1,424		443	19,208
April	2018	0		17,784		17,784	0		1,424		443	19,208
May	2018	0		17,784		17,784	0		1,424		443	19,208
June	2018	0		17,784		17,784	0		1,424		443	19,208
July	2018	0		17,784		17,784	0		1,424		443	19,208
August	2018	0		17,784		17,784	0		1,424		443	19,208
September	2018	0		17,784		17,784	0		1,424		443	19,208
October	2018	0		17,784		17,784	0		1,424		443	19,208
November	2018	0		17,784		17,784	0		1,424		443	19,208
December	2018	0		17,784		17,784	0		1,424		443	19,208
January	2019	0		17,784		17,784	0		1,424		443	19,208
February	2019	0		17,784		17,784	0		1,424		443	19,208
March	2019	0		17,784		17,784	0		1,424		443	19,208
April	2019	0		17,784		17,784	0		1,424		443	19,208
May	2019	0		17,784		17,784	0		1,424		443	19,208
June	2019	0		17,784		17,784	0		1,424		443	19,208
July	2019	0		17,784		17,784	0		1,424	0	443	19,208
August	2019	0		17,784		17,784	0		1,424	0	443	19,208
September	2019	0		17,784		17,784	0		1,424	0	443	19,208
October	2019	0		17,784		17,784	0		1,424	0	443	19,208
November	2019	0		17,784		17,784	0		1,424	0	443	19,208
December	2019	0		17,784		17,784	0		1,424	0	443	19,208
January	2020	0		17,784		17,784	0		1,424		0	19,208
February	2020	0		17,784		17,784	0		1,424		0	19,208
March	2020	0		17,784		17,784	0		1,424		0	19,208
April	2020	0		17,784		17,784	0		1,424		0	19,208
May	2020	0		17,784		17,784	0		1,424		0	19,208
June	2020	0		17,784		17,784	0		1,424		0	19,208
July	2020	0		17,784		17,784	0		1,424		0	19,208
August	2020	0		17,784		17,784	0		1,424		0	19,208
September	2020	0		17,784		17,784	0		1,424		0	19,208
October	2020	0		17,784		17,784	0		1,424		0	19,208
November	2020	0		17,784		17,784	0		1,424		0	19,208
December	2020	0		17,784		17,784	0		1,424		0	19,208
January	2021	0		17,784		17,784	0		1,424		0	19,208
February	2021	0		17,784		17,784	0		1,424		0	19,208
March	2021	0		17,784		17,784	0		1,424		0	19,208
April	2021	0		17,784		17,784	0		1,424		0	19,208
May	2021	0		17,784		17,784	0		1,424		0	19,208
June	2021	0		17,784		17,784	0		1,424		0	19,208
July	2021	0		17,784		17,784	0		1,424		0	19,208
August	2021	0		17,784		17,784	0		1,424		0	19,208
September	2021	0		17,784		17,784	0		1,424		0	19,208
October	2021	0		17,784		17,784	0		1,424		0	19,208
November	2021	0		17,784		17,784	0		1,424		0	19,208
December	2021	0		17,784		17,784	0		1,424		0	19,208
January	2022	0		17,784		17,784	0		1,424		0	19,208
February	2022	0		17,784		17,784	0		1,424		0	19,208
March	2022	0		17,784		17,784	0		1,424		0	19,208
April	2022	0		17,784		17,784	0		1,424		0	19,208
May	2022	0		17,784		17,784	0		1,424		0	19,208
June	2022	0		17,784		17,784	0		1,424		0	19,208
July	2022	0		17,784		17,784	0		1,424		0	19,208
August	2022	0		17,784		17,784	0		1,424		0	19,208
September	2022	0		17,784		17,784	0		1,424		0	19,208
October	2022	0		17,784		17,784	0		1,424		0	19,208
November	2022	0		17,784		17,784	0		1,424		0	19,208
December	2022	0		17,784		17,784	0		1,424		0	19,208

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
February	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
March	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
April	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
May	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
June	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
July	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
August	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
September	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
October	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
November	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
December	2018	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
January	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
February	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
March	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
April	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
May	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
June	2019	0		1,547,023		1,547,023	0		61,274		18,209	1,608,297
July	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
August	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
September	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
October	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
November	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
December	2019	0		1,547,023		1,547,023	0		61,274	0	18,209	1,608,297
January	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2020	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2021	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2022	0		1,547,023		1,547,023	0		61,274		0	1,608,297

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant				
		Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP				
Month	Year	VA				NC					System	VA	NC	System	VA	NC	System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)							System Cum for IRP	
January	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
February	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
March	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
April	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
May	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
June	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
July	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
August	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
September	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
October	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
November	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
December	2018	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
January	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
February	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
March	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
April	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
May	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
June	2019	0		5,848		5,848	0			160		46	6,008	87	43	84	0.33	0.11	0.31
July	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
August	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
September	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
October	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
November	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
December	2019	0		5,848		5,848	0			160	0	46	6,008	87	43	84	0.33	0.11	0.31
January	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
February	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
March	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
April	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
May	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
June	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
July	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
August	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
September	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
October	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
November	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
December	2020	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
January	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
February	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
March	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
April	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
May	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
June	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
July	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
August	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
September	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
October	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
November	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
December	2021	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
January	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
February	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
March	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
April	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
May	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
June	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
July	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
August	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
September	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
October	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
November	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31
December	2022	0		5,848		5,848	0			160		0	6,008	87	43	84	0.33	0.11	0.31

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2023	0		17,784		17,784	0		1,424		0	19,208
February	2023	0		17,784		17,784	0		1,424		0	19,208
March	2023	0		17,784		17,784	0		1,424		0	19,208
April	2023	0		17,784		17,784	0		1,424		0	19,208
May	2023	0		17,784		17,784	0		1,424		0	19,208
June	2023	0		17,784		17,784	0		1,424		0	19,208
July	2023	0		17,784		17,784	0		1,424		0	19,208
August	2023	0		17,784		17,784	0		1,424		0	19,208
September	2023	0		17,784		17,784	0		1,424		0	19,208
October	2023	0		17,784		17,784	0		1,424		0	19,208
November	2023	0		17,784		17,784	0		1,424		0	19,208
December	2023	0		17,784		17,784	0		1,424		0	19,208
January	2024	0		17,784		17,784	0		1,424		0	19,208
February	2024	0		17,784		17,784	0		1,424		0	19,208
March	2024	0		17,784		17,784	0		1,424		0	19,208
April	2024	0		17,784		17,784	0		1,424		0	19,208
May	2024	0		17,784		17,784	0		1,424		0	19,208
June	2024	0		17,784		17,784	0		1,424		0	19,208
July	2024	0		17,784		17,784	0		1,424		0	19,208
August	2024	0		17,784		17,784	0		1,424		0	19,208
September	2024	0		17,784		17,784	0		1,424		0	19,208
October	2024	0		17,784		17,784	0		1,424		0	19,208
November	2024	0		17,784		17,784	0		1,424		0	19,208
December	2024	0		17,784		17,784	0		1,424		0	19,208
January	2025	0		17,784		17,784	0		1,424		0	19,208
February	2025	0		17,784		17,784	0		1,424		0	19,208
March	2025	0		17,784		17,784	0		1,424		0	19,208
April	2025	0		17,784		17,784	0		1,424		0	19,208
May	2025	0		17,784		17,784	0		1,424		0	19,208
June	2025	0		17,784		17,784	0		1,424		0	19,208
July	2025	0		17,784		17,784	0		1,424		0	19,208
August	2025	0		17,784		17,784	0		1,424		0	19,208
September	2025	0		17,784		17,784	0		1,424		0	19,208
October	2025	0		17,784		17,784	0		1,424		0	19,208
November	2025	0		17,784		17,784	0		1,424		0	19,208
December	2025	0		17,784		17,784	0		1,424		0	19,208
January	2026	0		17,784		17,784	0		1,424		0	19,208
February	2026	0		17,784		17,784	0		1,424		0	19,208
March	2026	0		17,784		17,784	0		1,424		0	19,208
April	2026	0		17,784		17,784	0		1,424		0	19,208
May	2026	0		17,784		17,784	0		1,424		0	19,208
June	2026	0		17,784		17,784	0		1,424		0	19,208
July	2026	0		17,784		17,784	0		1,424		0	19,208
August	2026	0		17,784		17,784	0		1,424		0	19,208
September	2026	0		17,784		17,784	0		1,424		0	19,208
October	2026	0		17,784		17,784	0		1,424		0	19,208
November	2026	0		17,784		17,784	0		1,424		0	19,208
December	2026	0		17,784		17,784	0		1,424		0	19,208
January	2027	0		17,784		17,784	0		1,424		0	19,208
February	2027	0		17,784		17,784	0		1,424		0	19,208
March	2027	0		17,784		17,784	0		1,424		0	19,208
April	2027	0		17,784		17,784	0		1,424		0	19,208
May	2027	0		17,784		17,784	0		1,424		0	19,208
June	2027	0		17,784		17,784	0		1,424		0	19,208
July	2027	0		17,784		17,784	0		1,424		0	19,208
August	2027	0		17,784		17,784	0		1,424		0	19,208
September	2027	0		17,784		17,784	0		1,424		0	19,208
October	2027	0	-16	17,768		17,768	0		1,424		0	19,192
November	2027	0	-33	17,735		17,735	0		1,424		0	19,159
December	2027	0	-37	17,698		17,698	0		1,424		0	19,122

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2023	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2024	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2025	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
November	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
December	2026	0		1,547,023		1,547,023	0		61,274		0	1,608,297
January	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
February	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
March	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
April	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
May	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
June	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
July	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
August	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
September	2027	0		1,547,023		1,547,023	0		61,274		0	1,608,297
October	2027	0	-3,417	1,543,605		1,543,605	0		61,274		0	1,604,879
November	2027	0	-6,826	1,536,779		1,536,779	0		61,274		0	1,598,053
December	2027	0	-6,377	1,530,402		1,530,402	0		61,274		0	1,591,676

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System	VA	NC	System	VA	NC	System
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP								
January	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
February	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
March	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
April	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
May	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
June	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
July	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
August	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
September	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
October	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
November	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
December	2023	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
January	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
February	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
March	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
April	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
May	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
June	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
July	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
August	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
September	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
October	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
November	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
December	2024	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
January	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
February	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
March	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
April	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
May	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
June	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
July	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
August	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
September	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
October	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
November	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
December	2025	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
January	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
February	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
March	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
April	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
May	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
June	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
July	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
August	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
September	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
October	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
November	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
December	2026	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
January	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
February	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
March	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
April	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
May	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
June	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
July	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
August	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
September	2027	0		5,848		5,848	0		160		0	6,008	87	43	84	0.33	0.11	0.31
October	2027	0	-10	5,839		5,839	0		160		0	5,999	87	43	84	0.33	0.11	0.31
November	2027	0	-23	5,816		5,816	0		160		0	5,975	87	43	83	0.33	0.11	0.31
December	2027	0	-26	5,789		5,789	0		160		0	5,949	86	43	83	0.33	0.11	0.31



# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] =Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2028	0	-34	17,664		17,664	0		1,424		0	19,088
February	2028	0	-165	17,499		17,499	0		1,424		0	18,923
March	2028	0	-202	17,297		17,297	0		1,424		0	18,721
April	2028	0	-149	17,148		17,148	0		1,424		0	18,572
May	2028	0	-261	16,887		16,887	0		1,424		0	18,311
June	2028	0	-309	16,578		16,578	0		1,424		0	18,002
July	2028	0	-465	16,113		16,113	0		1,424		0	17,537
August	2028	0	-343	15,770		15,770	0		1,424		0	17,194
September	2028	0	-415	15,355		15,355	0		1,424		0	16,779
October	2028	0	-452	14,903		14,903	0		1,424		0	16,327
November	2028	0	-176	14,727		14,727	0		1,424		0	16,151
December	2028	0	-324	14,403		14,403	0		1,424		0	15,827
January	2029	0	-284	14,119		14,119	0		1,424		0	15,543
February	2029	0	-281	13,838		13,838	0		1,424		0	15,262
March	2029	0	-254	13,584		13,584	0		1,424		0	15,008
April	2029	0	-298	13,286		13,286	0		1,424		0	14,710
May	2029	0	-241	13,045		13,045	0		1,424		0	14,469
June	2029	0	-322	12,723		12,723	0	-1	1,423		-1	14,146
July	2029	0	-586	12,137		12,137	0	0	1,423		-1	13,560
August	2029	0	-334	11,803		11,803	0	-4	1,419		-5	13,222
September	2029	0	-418	11,385		11,385	0	-5	1,414		-10	12,799
October	2029	0	-243	11,142		11,142	0	-9	1,405		-19	12,547
November	2029	0	-169	10,973		10,973	0	-12	1,393		-31	12,366
December	2029	0	-219	10,754		10,754	0	-13	1,380		-44	12,134
January	2030	0	-301	10,453		10,453	0	-34	1,346		-78	11,799
February	2030	0	-327	10,126		10,126	0	-15	1,331		-93	11,457
March	2030	0	-258	9,868		9,868	0	-20	1,311		-113	11,179
April	2030	0	-335	9,533		9,533	0	-58	1,253		-171	10,786
May	2030	0	-258	9,275		9,275	0	-57	1,196		-228	10,471
June	2030	0	-694	8,581		8,581	0	-99	1,097		-327	9,678
July	2030	0	-459	8,122		8,122	0	-83	1,014		-410	9,136
August	2030	0	-445	7,677		7,677	0	-48	966		-458	8,643
September	2030	0	-412	7,265		7,265	0	-103	863		-561	8,128
October	2030	0	-322	6,943		6,943	0	-43	820		-604	7,763
November	2030	0	-289	6,654		6,654	0	-29	791		-633	7,445
December	2030	0	-110	6,544		6,544	0	-8	783		-641	7,327
January	2031	0	-420	6,124		6,124	0	-23	760		-664	6,884
February	2031	0	-444	5,680		5,680	0	-72	688		-736	6,368
March	2031	0	-415	5,265		5,265	0	-48	640		-784	5,905
April	2031	0	-418	4,847		4,847	0	-65	575		-849	5,422
May	2031	0	-384	4,463		4,463	0	-44	531		-893	4,994
June	2031	0	-499	3,964		3,964	0	-88	443		-981	4,407
July	2031	0	-598	3,366		3,366	0	-70	373		-1,051	3,739
August	2031	0	-729	2,637		2,637	0	-105	268		-1,156	2,905
September	2031	0	-414	2,223		2,223	0	-37	231		-1,193	2,454
October	2031	0	-392	1,831		1,831	0	-57	174		-1,250	2,005
November	2031	0	-470	1,361		1,361	0	-46	128		-1,296	1,489
December	2031	0	-212	1,149		1,149	0	-10	118		-1,306	1,267
January	2032	0	-828	321		321	0	-76	42		-1,382	363
February	2032	0	-235	86		86	0	-36	6		-1,418	92
March	2032	0	-86	0		0	0	-6	0		-1,424	0
April	2032	0	0	0		0	0	0	0		-1,424	0
May	2032	0	0	0		0	0	0	0		-1,424	0
June	2032	0	0	0		0	0	0	0		-1,424	0
July	2032	0	0	0		0	0	0	0		-1,424	0
August	2032	0	0	0		0	0	0	0		-1,424	0
September	2032	0	0	0		0	0	0	0		-1,424	0
October	2032	0	0	0		0	0	0	0		-1,424	0
November	2032	0	0	0		0	0	0	0		-1,424	0
December	2032	0	0	0		0	0	0	0		-1,424	0

Table 2. EM&V Data Incremental by Vintage Year									
	Program Participants								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	86	86	-	-	86				
2013	3,295	3,295	-	-	3,295				
2014	3,649	3,649	44	44	3,693				
2015	4,210	4,210	597	597	4,807				
2016	5,395	5,395	665	325	6,060				
2017	1,149	1,149	118	118	1,267				

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2028	0	-4,859	1,525,543		1,525,543	0			61,274	0	1,586,817
February	2028	0	-28,816	1,496,727		1,496,727	0			61,274	0	1,558,001
March	2028	0	-34,445	1,462,283		1,462,283	0			61,274	0	1,523,556
April	2028	0	-24,175	1,438,108		1,438,108	0			61,274	0	1,499,381
May	2028	0	-44,920	1,393,188		1,393,188	0			61,274	0	1,454,462
June	2028	0	-52,727	1,340,461		1,340,461	0			61,274	0	1,401,735
July	2028	0	-80,429	1,260,032		1,260,032	0			61,274	0	1,321,306
August	2028	0	-56,622	1,203,410		1,203,410	0			61,274	0	1,264,684
September	2028	0	-70,495	1,132,915		1,132,915	0			61,274	0	1,194,189
October	2028	0	-69,869	1,063,046		1,063,046	0			61,274	0	1,124,320
November	2028	0	-30,779	1,032,267		1,032,267	0			61,274	0	1,093,541
December	2028	0	-57,339	974,927		974,927	0			61,274	0	1,036,201
January	2029	0	-44,016	930,911		930,911	0			61,274	0	992,185
February	2029	0	-40,377	890,534		890,534	0			61,274	0	951,808
March	2029	0	-38,899	851,635		851,635	0			61,274	0	912,909
April	2029	0	-46,218	805,417		805,417	0			61,274	0	866,691
May	2029	0	-34,718	770,699		770,699	0			61,274	0	831,973
June	2029	0	-49,271	721,429		721,429	0	-330		60,944	-330	782,373
July	2029	0	-63,943	657,486		657,486	0	0		60,944	-330	718,430
August	2029	0	-38,350	619,136		619,136	0	-537		60,406	-867	679,542
September	2029	0	-46,188	572,948		572,948	0	-837		59,570	-1,704	632,517
October	2029	0	-27,948	545,000		545,000	0	-767		58,802	-2,472	603,802
November	2029	0	-18,038	526,962		526,962	0	-1,496		57,306	-3,968	584,268
December	2029	0	-24,284	502,677		502,677	0	-2,070		55,236	-6,037	557,914
January	2030	0	-16,285	486,392		486,392	0	-2,013		53,223	-8,051	539,615
February	2030	0	-17,549	468,843		468,843	0	-3,274		49,949	-11,325	518,793
March	2030	0	-12,676	456,167		456,167	0	-428		49,521	-11,753	505,688
April	2030	0	-14,244	441,922		441,922	0	-2,635		46,886	-14,387	488,809
May	2030	0	-13,679	428,243		428,243	0	-2,502		44,385	-16,889	472,628
June	2030	0	-32,176	396,067		396,067	0	-2,970		41,415	-19,859	437,482
July	2030	0	-22,577	373,490		373,490	0	-2,536		38,879	-22,395	412,369
August	2030	0	-19,261	354,228		354,228	0	-1,189		37,690	-23,584	391,918
September	2030	0	-18,266	335,963		335,963	0	-3,022		34,668	-26,606	370,630
October	2030	0	-13,549	322,414		322,414	0	-1,651		33,017	-28,257	355,431
November	2030	0	-14,223	308,191		308,191	0	-987		32,030	-29,243	340,221
December	2030	0	-6,010	302,181		302,181	0	-308		31,722	-29,552	333,903
January	2031	0	-22,066	280,116		280,116	0	-817		30,905	-30,369	311,021
February	2031	0	-22,639	257,477		257,477	0	-3,600		27,305	-33,969	284,781
March	2031	0	-17,105	240,372		240,372	0	-1,545		25,760	-35,514	266,132
April	2031	0	-17,926	222,446		222,446	0	-1,732		24,028	-37,245	246,475
May	2031	0	-18,880	203,566		203,566	0	-1,668		22,361	-38,913	225,927
June	2031	0	-22,911	180,655		180,655	0	-4,151		18,209	-43,064	198,864
July	2031	0	-27,659	152,996		152,996	0	-2,176		16,033	-45,241	169,029
August	2031	0	-33,806	119,190		119,190	0	-3,910		12,123	-49,151	131,313
September	2031	0	-20,800	98,390		98,390	0	-1,380		10,743	-50,531	109,133
October	2031	0	-17,989	80,402		80,402	0	-2,161		8,581	-52,692	88,983
November	2031	0	-24,720	55,682		55,682	0	-2,901		5,681	-55,593	61,363
December	2031	0	-9,521	46,161		46,161	0	-423		5,258	-56,016	51,419
January	2032	0	-33,627	12,534		12,534	0	-3,507		1,751	-59,523	14,285
February	2032	0	-9,579	2,956		2,956	0	-1,335		416	-60,858	3,371
March	2032	0	-2,956	0		0	0	-416		0	-61,274	0
April	2032	0	0	0		0	0	0		0	-61,274	0
May	2032	0	0	0		0	0	0		0	-61,274	0
June	2032	0	0	0		0	0	0		0	-61,274	0
July	2032	0	0	0		0	0	0		0	-61,274	0
August	2032	0	0	0		0	0	0		0	-61,274	0
September	2032	0	0	0		0	0	0		0	-61,274	0
October	2032	0	0	0		0	0	0		0	-61,274	0
November	2032	0	0	0		0	0	0		0	-61,274	0
December	2032	0	0	0		0	0	0		0	-61,274	0

Table 2. EM&V Data Incremental by Vintage Year								
Gross Incremental Energy (kWh)								
			VA IRP	VA NLR		NC IRP	NC NLR	System IRP
2012			30,282	30,282		-	-	30,282
2013			3,041,917	3,041,917		-	-	3,041,917
2014			3,304,296	3,304,296		15,708	15,708	3,320,005
2015			1,358,027	1,358,027		169,451	169,451	1,527,477
2016			1,688,721	1,688,721		173,680	146,654	1,862,400
2017			538,445	538,445		60,926	60,926	599,371



# Appendix C.11 Residential Heat Pump Upgrade Program

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		86		86		-		-		86
2013		3,295		3,295		-		-		3,295
2014		3,649		3,649		44		44		3,693
2015		4,210		4,210		597		597		4,807
2016		5,395		5,395		665		325		6,060
2017		1,149		1,149		118		118		1,267

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants									
	NC PPI									
	System									
2012										
2013										
2014								44		
2015								641		
2016								1,306		
2017								1,380		

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		86		86		-		-		86
2013		3,381		3,381		-		-		3,381
2014		7,030		7,030		44		44		7,074
2015		11,240		11,240		641		641		11,881
2016		16,635		16,635		1,306		325		17,941
2017		17,784		17,784		1,424		443		19,208
2018		17,784		17,784		1,424		443		19,208
2019		17,784		17,784		1,424		-		19,208
2020		17,784		17,784		1,424		-		19,208
2021		17,784		17,784		1,424		-		19,208
2022		17,784		17,784		1,424		-		19,208
2023		17,784		17,784		1,424		-		19,208
2024		17,784		17,784		1,424		-		19,208
2025		17,784		17,784		1,424		-		19,208
2026		17,784		17,784		1,424		-		19,208
2027		17,698		17,698		1,424		-		19,122
2028		14,403		14,403		1,424		-		15,827
2029		10,754		10,754		1,380		-		12,134
2030		6,544		6,544		783		-		7,327
2031		1,149		1,149		118		-		1,267
2032		-		-		-		-		-

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		86		86		-		-		86
2013		3,381		3,381		-		-		3,381
2014		7,030		7,030		44		44		7,074
2015		11,240		11,240		641		641		11,881
2016		16,635		16,635		1,306		325		17,941
2017		17,784		17,784		1,424		443		19,208
2018		17,784		17,784		1,424		443		19,208
2019		17,784		17,784		1,424		-		19,208
2020		17,784		17,784		1,424		-		19,208
2021		17,784		17,784		1,424		-		19,208
2022		17,784		17,784		1,424		-		19,208
2023		17,784		17,784		1,424		-		19,208
2024		17,784		17,784		1,424		-		19,208
2025		17,784		17,784		1,424		-		19,208
2026		17,784		17,784		1,424		-		19,208
2027		17,784		17,784		1,424		-		19,208
2028		17,784		17,784		1,424		-		19,208
2029		17,784		17,784		1,424		-		19,208
2030		17,784		17,784		1,424		-		19,208
2031		17,784		17,784		1,424		-		19,208
2032		17,784		17,784		1,424		-		19,208

# Appendix C.11 Residential Heat Pump Upgrade Program

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh/year)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		199,447		199,447		-		-		199,447
2013		6,665,695		6,665,695		-		-		6,665,695
2014		5,667,002		5,667,002		72,449		72,449		5,739,451
2015		2,405,953		2,405,953		282,170		282,170		2,688,124
2016		3,072,240		3,072,240		317,574		155,421		3,389,814
2017		553,935		553,935		63,092		63,092		617,028

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross (kWh)									
	NC PPI									System
2012										-
2013										-
2014										15,708
2015										241,899
2016										528,299
2017										660,671

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		30,282		30,282		-		-		30,282
2013		3,241,365		3,241,365		-		-		3,241,365
2014		10,169,439		10,169,439		15,708		15,708		10,185,147
2015		13,890,171		13,890,171		241,899		241,899		14,132,070
2016		16,626,818		16,626,818		528,299		442,170		17,155,117
2017		18,548,782		18,548,782		733,120		216,347		19,281,902
2018		18,564,272		18,564,272		735,286		218,513		19,299,558
2019		18,564,272		18,564,272		735,286		182,094		19,299,558
2020		18,564,272		18,564,272		735,286		-		19,299,558
2021		18,564,272		18,564,272		735,286		-		19,299,558
2022		18,564,272		18,564,272		735,286		-		19,299,558
2023		18,564,272		18,564,272		735,286		-		19,299,558
2024		18,564,272		18,564,272		735,286		-		19,299,558
2025		18,564,272		18,564,272		735,286		-		19,299,558
2026		18,564,272		18,564,272		735,286		-		19,299,558
2027		18,533,991		18,533,991		735,286		-		19,269,277
2028		15,322,907		15,322,907		735,286		-		16,058,193
2029		8,394,834		8,394,834		719,578		-		9,114,411
2030		4,674,101		4,674,101		493,387		-		5,167,488
2031		1,937,454		1,937,454		206,987		-		2,144,441
2032		15,490		15,490		2,166		-		17,656

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		30,282		30,282		-		-		30,282
2013		3,271,646		3,271,646		-		-		3,271,646
2014		13,441,085		13,441,085		15,708		15,708		13,456,793
2015		27,331,256		27,331,256		257,608		241,899		27,588,863
2016		43,958,074		43,958,074		785,907		664,069		44,743,981
2017		62,506,856		62,506,856		1,519,027		886,216		64,025,883
2018		81,071,128		81,071,128		2,254,313		1,084,729		83,325,441
2019		99,635,400		99,635,400		2,989,599		1,266,823		102,624,999
2020		118,199,672		118,199,672		3,724,885		1,448,923		121,924,557
2021		136,763,945		136,763,945		4,460,171		1,631,023		141,224,115
2022		155,328,217		155,328,217		5,195,457		1,813,123		160,523,673
2023		173,892,489		173,892,489		5,930,743		2,000,217		179,823,232
2024		192,456,761		192,456,761		6,666,029		2,182,311		199,122,790
2025		211,021,033		211,021,033		7,401,315		2,364,405		218,422,348
2026		229,585,305		229,585,305		8,136,601		2,546,500		237,721,906
2027		248,149,577		248,149,577		8,871,887		2,728,594		256,991,183
2028		263,442,203		263,442,203		9,607,173		2,910,688		273,049,376
2029		271,837,037		271,837,037		10,326,751		3,092,782		282,163,788
2030		276,511,138		276,511,138		10,820,137		3,274,876		287,331,275
2031		278,448,592		278,448,592		11,027,124		3,456,970		289,475,716
2032		278,464,082		278,464,082		11,029,290		3,459,136		289,493,373

# Appendix C.11 Residential Heat Pump Upgrade Program

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2012	59	59	-	-	59	2,319	-	2,319	0.69	-	0.69					
2013	2,394	2,394	-	-	2,394	2,023	-	2,023	0.73	-	0.73					
2014	2,169	2,169	19	19	2,188	1,553	1,647	1,554	0.59	0.44	0.59					
2015	472	472	58	58	530	571	473	559	0.11	0.10	0.11					
2016	624	624	69	32	693	569	478	559	0.12	0.10	0.11					
2017	130	130	14	14	144	482	535	487	0.11	0.12	0.11					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	NC PPI	System	VA	NC	System	VA	NC	System	VA	NC	System					
2012	-	-	-	-	-	-	-	-	-	-	-					
2013	-	-	-	-	-	-	-	-	-	-	-					
2014	19	-	-	357	-	-	-	-	0.44	-	-					
2015	77	-	-	377	-	-	-	-	0.12	-	-					
2016	145	-	-	405	-	-	-	-	0.11	-	-					
2017	141	-	-	479	-	-	-	-	0.10	-	-					

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2012	59	59	-	-	59	352	-	352	0.69	-	0.69					
2013	2,453	2,453	-	-	2,453	959	-	959	0.73	-	0.73					
2014	4,622	4,622	19	19	4,641	1,447	357	1,440	0.66	0.44	0.66					
2015	5,094	5,094	77	77	5,171	1,236	377	1,189	0.45	0.12	0.44					
2016	5,719	5,719	145	32	5,864	1,000	405	956	0.34	0.11	0.33					
2017	5,848	5,848	160	46	6,008	1,043	515	1,004	0.33	0.11	0.31					
2018	5,848	5,848	160	46	6,008	1,044	516	1,005	0.33	0.11	0.31					
2019	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2020	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2021	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2022	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2023	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2024	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2025	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2026	5,848	5,848	160	-	6,008	1,044	516	1,005	0.33	0.11	0.31					
2027	5,789	5,789	160	-	5,949	1,047	516	1,008	0.33	0.11	0.31					
2028	3,395	3,395	160	-	3,555	1,064	516	1,015	0.24	0.11	0.22					
2029	1,226	1,226	141	-	1,367	781	521	751	0.11	0.10	0.11					
2030	754	754	83	-	837	714	630	705	0.12	0.11	0.11					
2031	130	130	14	-	144	1,686	1,754	1,693	0.11	0.12	0.11					
2032	-	(0)	-	-	-	-	-	-	-	-	-					

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
Year	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2012	59	59	-	-	59	352	-	352	0.69	-	0.69					
2013	2,453	2,453	-	-	2,453	968	-	968	0.73	-	0.73					
2014	4,622	4,622	19	19	4,641	1,912	357	1,902	0.66	0.44	0.66					
2015	5,094	5,094	77	77	5,171	2,432	402	2,322	0.45	0.12	0.44					
2016	5,719	5,719	145	32	5,864	2,643	602	2,494	0.34	0.11	0.33					
2017	5,848	5,848	160	46	6,008	3,515	1,067	3,333	0.33	0.11	0.31					
2018	5,848	5,848	160	46	6,008	4,559	1,583	4,338	0.33	0.11	0.31					
2019	5,848	5,848	160	-	6,008	5,603	2,099	5,343	0.33	0.11	0.31					
2020	5,848	5,848	160	-	6,008	6,646	2,616	6,348	0.33	0.11	0.31					
2021	5,848	5,848	160	-	6,008	7,690	3,132	7,352	0.33	0.11	0.31					
2022	5,848	5,848	160	-	6,008	8,734	3,648	8,357	0.33	0.11	0.31					
2023	5,848	5,848	160	-	6,008	9,778	4,165	9,362	0.33	0.11	0.31					
2024	5,848	5,848	160	-	6,008	10,822	4,681	10,367	0.33	0.11	0.31					
2025	5,848	5,848	160	-	6,008	11,866	5,198	11,371	0.33	0.11	0.31					
2026	5,848	5,848	160	-	6,008	12,910	5,714	12,376	0.33	0.11	0.31					
2027	5,848	5,848	160	-	6,008	13,954	6,230	13,379	0.33	0.11	0.31					
2028	5,848	5,848	160	-	6,008	14,813	6,747	14,215	0.33	0.11	0.31					
2029	5,848	5,848	160	-	6,008	15,285	7,252	14,690	0.33	0.11	0.31					
2030	5,848	5,848	160	-	6,008	15,548	7,598	14,959	0.33	0.11	0.31					
2031	5,848	5,848	160	-	6,008	15,657	7,744	15,071	0.33	0.11	0.31					
2032	5,848	5,848	160	-	6,008	15,658	7,745	15,072	0.33	0.11	0.31					

# Appendix C.12 Residential Heat Pump Tune-Up Program

<b>PROGRAM:</b> Residential Heat Pump Tune-Up
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 5.0 years

Table 1		Participation												
Month	Year	Program Participants										System		
		VA					NC							
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D		System Cum for IRP E+G	
October	2012	139		139		139								139
November	2012	577		716		716								716
December	2012	493		1,209		1,209								1,209
January	2013	536		1,745		1,745								1,745
February	2013	2,124		3,869		3,869								3,869
March	2013	2,194		6,063		6,063								6,063
April	2013	876		6,939		6,939								6,939
May	2013	1,779		8,718		8,718								8,718
June	2013	1,236		9,954		9,954								9,954
July	2013	891		10,845		10,845								10,845
August	2013	570		11,415		11,415								11,415
September	2013	1,275		12,690		12,690								12,690
October	2013	1,408		14,098		14,098								14,098
November	2013	1,323		15,421		15,421								15,421
December	2013	1,424		16,845		16,845								16,845
January	2014	995		17,840		17,840	0			0			0	17,840
February	2014	1,178		19,018		19,018	0			0			0	19,018
March	2014	949		19,967		19,967	0			0			0	19,967
April	2014	1,865		21,832		21,832	0			0			0	21,832
May	2014	2,465		24,297		24,297	3			3			3	24,300
June	2014	3,699		27,996		27,996	3			6			6	28,002
July	2014	3,427		31,423		31,423	2			8			8	31,431
August	2014	2,727		34,150		34,150	17			25			25	34,175
September	2014	2,248		36,398		36,398	14			39			39	36,437
October	2014	1,621		38,019		38,019	82			121			121	38,140
November	2014	1,833		39,852		39,852	263			384			384	40,236
December	2014	1,680		41,532		41,532	197			581			581	42,113
January	2015	1,968		43,500		43,500	448			1,029			1,029	44,529
February	2015	1,931		45,431		45,431	316			1,345			1,345	46,776
March	2015	1,219		46,650		46,650	254			1,599			1,599	48,249
April	2015	3,141		49,791		49,791	342			1,941			1,941	51,732
May	2015	2,128		51,919		51,919	313			2,254			2,254	54,173
June	2015	2,085		54,004		54,004	523			2,777			2,777	56,781
July	2015	2,133		56,137		56,137	282			3,059			3,059	59,196
August	2015	1,931		58,068		58,068	171			3,230			3,230	61,298
September	2015	1,873		59,941		59,941	336			3,566			3,566	63,507
October	2015	1,900		61,841		61,841	169			3,735			3,735	65,576
November	2015	1,866		63,707		63,707	102			3,837			3,837	67,544
December	2015	1,939		65,646		65,646	51			3,888			3,888	69,534
January	2016	1,761		67,407		67,407	94			3,982			3,982	71,389
February	2016	2,101		69,508		69,508	170			4,152			4,152	73,660
March	2016	1,113		70,621		70,621	117			4,269			4,269	74,890
April	2016	1,726		72,347		72,347	159			4,428			4,428	76,775
May	2016	1,550		73,897		73,897	96			4,524			4,524	78,421
June	2016	1,649		75,546		75,546	179			4,703			4,703	80,249
July	2016	1,259		76,805		76,805	100			4,803	100		4,803	81,608
August	2016	1,754		78,559		78,559	113			4,916	213		4,916	83,475
September	2016	1,313		79,872		79,872	54			4,970	267		4,970	84,842
October	2016	1,644		81,516		81,516	54			5,024	321		5,024	86,540
November	2016	2,249		83,765		83,765	71			5,095	392		5,095	88,860
December	2016	889		84,654		84,654	67			5,162			5,162	89,816
January	2017	2,221		86,875		86,875	80			5,242			5,242	92,117
February	2017	219		87,094		87,094	29			5,271			5,271	92,365
March	2017	32		87,126		87,126	16			5,287			5,287	92,413
April	2017	0		87,126		87,126	0			5,287			5,287	92,413
May	2017	0		87,126		87,126	0			5,287			5,287	92,413
June	2017	0		87,126		87,126	0			5,287			5,287	92,413
July	2017	0		87,126		87,126	0			5,287			5,287	92,413
August	2017	0		87,126		87,126	0			5,287			5,287	92,413
September	2017	0		87,126		87,126	0			5,287			5,287	92,413
October	2017	0	-139	86,987		86,987	0			5,287			5,287	92,274
November	2017	0	-577	86,410		86,410	0			5,287			5,287	91,697
December	2017	0	-493	85,917		85,917	0			5,287			5,287	91,204

# Appendix C.12 Residential Heat Pump Tune-Up Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
October	2012	3,572		3,572		3,572						3,572
November	2012	14,513		18,085		18,085						18,085
December	2012	12,319		30,405		30,405						30,405
January	2013	13,583		43,988		43,988						43,988
February	2013	53,678		97,666		97,666						97,666
March	2013	53,912		151,578		151,578						151,578
April	2013	21,668		173,246		173,246						173,246
May	2013	43,704		216,950		216,950						216,950
June	2013	30,932		247,882		247,882						247,882
July	2013	22,036		269,918		269,918						269,918
August	2013	13,974		283,891		283,891						283,891
September	2013	31,243		315,134		315,134						315,134
October	2013	34,370		349,505		349,505						349,505
November	2013	31,563		381,068		381,068						381,068
December	2013	33,154		414,221		414,221						414,221
January	2014	20,832		435,054		435,054	0		0		0	435,054
February	2014	25,304		460,358		460,358	0		0		0	460,358
March	2014	19,914		480,272		480,272	0		0		0	480,272
April	2014	37,986		518,258		518,258	0		0		0	518,258
May	2014	52,729		570,987		570,987	114		114		114	571,101
June	2014	76,005		646,992		646,992	102		216		216	647,207
July	2014	73,221		720,213		720,213	46		262		262	720,475
August	2014	56,768		776,981		776,981	378		640		640	777,621
September	2014	45,321		822,302		822,302	301		941		941	823,243
October	2014	35,573		857,874		857,874	1,766		2,706		2,706	860,581
November	2014	41,709		899,584		899,584	5,665		8,371		8,371	907,955
December	2014	37,137		936,720		936,720	4,533		12,905		12,905	949,625
January	2015	37,286		974,006		974,006	9,510		22,415		22,415	996,421
February	2015	34,162		1,008,168		1,008,168	6,487		28,902		28,902	1,037,070
March	2015	22,609		1,030,776		1,030,776	5,505		34,407		34,407	1,065,184
April	2015	54,329		1,085,106		1,085,106	7,479		41,886		41,886	1,126,992
May	2015	37,020		1,122,126		1,122,126	6,603		48,490		48,490	1,170,616
June	2015	35,641		1,157,767		1,157,767	11,242		59,732		59,732	1,217,499
July	2015	34,169		1,191,936		1,191,936	6,006		65,738		65,738	1,257,674
August	2015	31,994		1,223,930		1,223,930	3,569		69,307		69,307	1,293,237
September	2015	32,713		1,256,642		1,256,642	7,067		76,374		76,374	1,333,016
October	2015	34,727		1,291,370		1,291,370	3,642		80,016		80,016	1,371,386
November	2015	32,957		1,324,327		1,324,327	2,167		82,183		82,183	1,406,510
December	2015	34,654		1,358,981		1,358,981	1,030		83,212		83,212	1,442,193
January	2016	30,996		1,389,976		1,389,976	2,058		85,271		85,271	1,475,247
February	2016	37,913		1,427,890		1,427,890	3,405		88,676		88,676	1,516,565
March	2016	19,660		1,447,549		1,447,549	2,489		91,165		91,165	1,538,714
April	2016	30,907		1,478,456		1,478,456	3,287		94,452		94,452	1,572,908
May	2016	29,652		1,508,108		1,508,108	2,009		96,461		96,461	1,604,569
June	2016	31,531		1,539,639		1,539,639	3,809		100,270		100,270	1,639,909
July	2016	22,980		1,562,619		1,562,619	2,244		102,514	2,244	102,514	1,665,133
August	2016	30,668		1,593,287		1,593,287	2,436		104,950	4,680	104,950	1,698,237
September	2016	21,891		1,615,178		1,615,178	1,075		106,024	5,754	106,024	1,721,202
October	2016	26,927		1,642,105		1,642,105	1,121		107,146	6,876	107,146	1,749,251
November	2016	37,956		1,680,061		1,680,061	1,594		108,740	8,470	108,740	1,788,801
December	2016	15,198		1,695,259		1,695,259	1,363		110,102		9,832	1,805,361
January	2017	37,047		1,732,306		1,732,306	1,696		111,799		11,529	1,844,105
February	2017	4,049		1,736,355		1,736,355	592		112,390		12,120	1,848,745
March	2017	637		1,736,992		1,736,992	383		112,773		12,503	1,849,765
April	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
May	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
June	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
July	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
August	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
September	2017	0		1,736,992		1,736,992	0		112,773		12,503	1,849,765
October	2017	0	-3,572	1,733,420		1,733,420	0		112,773		12,503	1,846,193
November	2017	0	-14,513	1,718,907		1,718,907	0		112,773		12,503	1,831,680
December	2017	0	-12,319	1,706,588		1,706,588	0		112,773		12,503	1,819,361





# Appendix C.12 Residential Heat Pump Tune-Up Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2018	0	-536	85,381		85,381	0		5,287		584	90,668
February	2018	0	-2,124	83,257		83,257	0		5,287		584	88,544
March	2018	0	-2,194	81,063		81,063	0		5,287		584	86,350
April	2018	0	-876	80,187		80,187	0		5,287		584	85,474
May	2018	0	-1,779	78,408		78,408	0		5,287		584	83,695
June	2018	0	-1,236	77,172		77,172	0		5,287		584	82,459
July	2018	0	-891	76,281		76,281	0		5,287		584	81,568
August	2018	0	-570	75,711		75,711	0		5,287		584	80,998
September	2018	0	-1,275	74,436		74,436	0		5,287		584	79,723
October	2018	0	-1,408	73,028		73,028	0		5,287		584	78,315
November	2018	0	-1,323	71,705		71,705	0		5,287		584	76,992
December	2018	0	-1,424	70,281		70,281	0		5,287		584	75,568
January	2019	0	-995	69,286		69,286	0		5,287		584	74,573
February	2019	0	-1,178	68,108		68,108	0		5,287		584	73,395
March	2019	0	-949	67,159		67,159	0		5,287		584	72,446
April	2019	0	-1,865	65,294		65,294	0		5,287		584	70,581
May	2019	0	-2,465	62,829		62,829	0	-3	5,284		581	68,113
June	2019	0	-3,699	59,130		59,130	0	-3	5,281		578	64,411
July	2019	0	-3,427	55,703		55,703	0	-2	5,279	0	576	60,982
August	2019	0	-2,727	52,976		52,976	0	-17	5,262	0	559	58,238
September	2019	0	-2,248	50,728		50,728	0	-14	5,248	0	545	55,976
October	2019	0	-1,621	49,107		49,107	0	-82	5,166	0	463	54,273
November	2019	0	-1,833	47,274		47,274	0	-263	4,903	0	-263	52,177
December	2019	0	-1,680	45,594		45,594	0	-197	4,706		-460	50,300
January	2020	0	-1,968	43,626		43,626	0	-448	4,258		-908	47,884
February	2020	0	-1,931	41,695		41,695	0	-316	3,942		-1,224	45,637
March	2020	0	-1,219	40,476		40,476	0	-254	3,688		-1,478	44,164
April	2020	0	-3,141	37,335		37,335	0	-342	3,346		-1,820	40,681
May	2020	0	-2,128	35,207		35,207	0	-313	3,033		-2,133	38,240
June	2020	0	-2,085	33,122		33,122	0	-523	2,510		-2,656	35,632
July	2020	0	-2,133	30,989		30,989	0	-282	2,228		-2,938	33,217
August	2020	0	-1,931	29,058		29,058	0	-171	2,057		-3,109	31,115
September	2020	0	-1,873	27,185		27,185	0	-336	1,721		-3,445	28,906
October	2020	0	-1,900	25,285		25,285	0	-169	1,552		-3,614	26,837
November	2020	0	-1,866	23,419		23,419	0	-102	1,450		-3,716	24,869
December	2020	0	-1,939	21,480		21,480	0	-51	1,399		-3,767	22,879
January	2021	0	-1,761	19,719		19,719	0	-94	1,305		-3,861	21,024
February	2021	0	-2,101	17,618		17,618	0	-170	1,135		-4,031	18,753
March	2021	0	-1,113	16,505		16,505	0	-117	1,018		-4,148	17,523
April	2021	0	-1,726	14,779		14,779	0	-159	859		-4,307	15,638
May	2021	0	-1,550	13,229		13,229	0	-96	763		-4,403	13,992
June	2021	0	-1,649	11,580		11,580	0	-179	584		-4,582	12,164
July	2021	0	-1,259	10,321		10,321	0	-100	484		-4,682	10,805
August	2021	0	-1,754	8,567		8,567	0	-113	371		-4,795	8,938
September	2021	0	-1,313	7,254		7,254	0	-54	317		-4,849	7,571
October	2021	0	-1,644	5,610		5,610	0	-54	263		-4,903	5,873
November	2021	0	-2,249	3,361		3,361	0	-71	192		-4,974	3,553
December	2021	0	-889	2,472		2,472	0	-67	125		-5,041	2,597
January	2022	0	-2,221	251		251	0	-80	45		-5,121	296
February	2022	0	-219	32		32	0	-29	16		-5,150	48
March	2022	0	-32	0		0	0	-16	0		-5,166	0
April	2022	0	0	0		0	0	0	0		-5,166	0
May	2022	0	0	0		0	0	0	0		-5,166	0
June	2022	0	0	0		0	0	0	0		-5,166	0
July	2022	0	0	0		0	0	0	0		-5,166	0
August	2022	0	0	0		0	0	0	0		-5,166	0
September	2022	0	0	0		0	0	0	0		-5,166	0
October	2022	0	0	0		0	0	0	0		-5,166	0
November	2022	0	0	0		0	0	0	0		-5,166	0
December	2022	0	0	0		0	0	0	0		-5,166	0

Table 2. EM&V Data Incremental by Vintage Year									
	Program Participants								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	1,209	1,209	-	-	1,209				
2013	15,636	15,636	-	-	15,636				
2014	24,687	24,687	581	581	25,268				
2015	24,114	24,114	3,307	3,307	27,421				
2016	19,008	19,008	1,274	459	20,282				
2017	1,263	1,263	125	125	1,388				

# Appendix C.12 Residential Heat Pump Tune-Up Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2018	0	-13,583	1,693,004		1,693,004	0		112,773		12,503	1,805,777
February	2018	0	-53,678	1,639,326		1,639,326	0		112,773		12,503	1,752,099
March	2018	0	-53,912	1,585,414		1,585,414	0		112,773		12,503	1,698,187
April	2018	0	-21,668	1,563,746		1,563,746	0		112,773		12,503	1,676,519
May	2018	0	-43,704	1,520,042		1,520,042	0		112,773		12,503	1,632,815
June	2018	0	-30,932	1,489,110		1,489,110	0		112,773		12,503	1,601,883
July	2018	0	-22,036	1,467,074		1,467,074	0		112,773		12,503	1,579,848
August	2018	0	-13,974	1,453,101		1,453,101	0		112,773		12,503	1,565,874
September	2018	0	-31,243	1,421,858		1,421,858	0		112,773		12,503	1,534,631
October	2018	0	-34,370	1,387,488		1,387,488	0		112,773		12,503	1,500,261
November	2018	0	-31,563	1,355,924		1,355,924	0		112,773		12,503	1,468,698
December	2018	0	-33,154	1,322,771		1,322,771	0		112,773		12,503	1,435,544
January	2019	0	-20,832	1,301,939		1,301,939	0		112,773		12,503	1,414,712
February	2019	0	-25,304	1,276,634		1,276,634	0		112,773		12,503	1,389,407
March	2019	0	-19,914	1,256,720		1,256,720	0		112,773		12,503	1,369,493
April	2019	0	-37,986	1,218,734		1,218,734	0		112,773		12,503	1,331,507
May	2019	0	-52,729	1,166,005		1,166,005	0	-114	112,659		12,389	1,278,664
June	2019	0	-76,005	1,090,001		1,090,001	0	-102	112,557		12,288	1,202,558
July	2019	0	-73,221	1,016,779		1,016,779	0	-46	112,511	0	12,241	1,129,290
August	2019	0	-56,768	960,011		960,011	0	-378	112,133	0	11,863	1,072,144
September	2019	0	-45,321	914,690		914,690	0	-301	111,832	0	11,562	1,026,523
October	2019	0	-35,573	879,118		879,118	0	-1,766	110,067	0	9,797	989,184
November	2019	0	-41,709	837,409		837,409	0	-5,665	104,402	0	-5,665	941,810
December	2019	0	-37,137	800,272		800,272	0	-4,533	99,868		-10,198	900,140
January	2020	0	-37,286	762,986		762,986	0	-9,510	90,358		-19,709	853,344
February	2020	0	-34,162	728,824		728,824	0	-6,487	83,871		-26,196	812,695
March	2020	0	-22,609	706,216		706,216	0	-5,505	78,366		-31,701	784,581
April	2020	0	-54,329	651,886		651,886	0	-7,479	70,887		-39,180	722,773
May	2020	0	-37,020	614,866		614,866	0	-6,603	64,283		-45,783	679,149
June	2020	0	-35,641	579,225		579,225	0	-11,242	53,041		-57,025	632,266
July	2020	0	-34,169	545,056		545,056	0	-6,006	47,035		-63,031	592,091
August	2020	0	-31,994	513,062		513,062	0	-3,569	43,466		-66,601	556,528
September	2020	0	-32,713	480,350		480,350	0	-7,067	36,399		-73,667	516,749
October	2020	0	-34,727	445,622		445,622	0	-3,642	32,757		-77,310	478,379
November	2020	0	-32,957	412,665		412,665	0	-2,167	30,590		-79,476	443,255
December	2020	0	-34,654	378,011		378,011	0	-1,030	29,561		-80,506	407,572
January	2021	0	-30,996	347,016		347,016	0	-2,058	27,503		-82,564	374,518
February	2021	0	-37,913	309,103		309,103	0	-3,405	24,097		-85,969	333,200
March	2021	0	-19,660	289,443		289,443	0	-2,489	21,608		-88,458	311,051
April	2021	0	-30,907	258,536		258,536	0	-3,287	18,322		-91,745	276,857
May	2021	0	-29,652	228,884		228,884	0	-2,009	16,312		-93,754	245,196
June	2021	0	-31,531	197,353		197,353	0	-3,809	12,503		-97,564	209,856
July	2021	0	-22,980	174,373		174,373	0	-2,244	10,259		-99,807	184,632
August	2021	0	-30,668	143,705		143,705	0	-2,436	7,823		-102,243	151,528
September	2021	0	-21,891	121,814		121,814	0	-1,075	6,749		-103,318	128,563
October	2021	0	-26,927	94,887		94,887	0	-1,121	5,628		-104,439	100,515
November	2021	0	-37,956	56,931		56,931	0	-1,594	4,034		-106,033	60,965
December	2021	0	-15,198	41,733		41,733	0	-1,363	2,671		-107,396	44,404
January	2022	0	-37,047	4,686		4,686	0	-1,696	974		-109,092	5,661
February	2022	0	-4,049	637		637	0	-592	383		-109,684	1,020
March	2022	0	-637	0		0	0	-383	0		-110,067	0
April	2022	0	0	0		0	0	0	0		-110,067	0
May	2022	0	0	0		0	0	0	0		-110,067	0
June	2022	0	0	0		0	0	0	0		-110,067	0
July	2022	0	0	0		0	0	0	0		-110,067	0
August	2022	0	0	0		0	0	0	0		-110,067	0
September	2022	0	0	0		0	0	0	0		-110,067	0
October	2022	0	0	0		0	0	0	0		-110,067	0
November	2022	0	0	0		0	0	0	0		-110,067	0
December	2022	0	0	0		0	0	0	0		-110,067	0

Table 2. EM&V Data Incremental by Vintage Year										
	Gross Incremental Energy (kWh)									
			VA IRP		VA NLR		NC IRP		NC NLR	System IRP
2012			52,062		52,062		-		-	52,062
2013			2,580,193		2,580,193		-		-	2,580,193
2014			3,154,939		3,154,939		26,155		26,155	3,181,094
2015			2,784,491		2,784,491		537,806		537,806	3,322,297
2016			2,272,360		2,272,360		197,221		163,105	2,469,580
2017			443,414		443,414		30,693		30,693	474,106



# Appendix C.12 Residential Heat Pump Tune-Up Program

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		1,209		1,209		-		-		1,209
2013		15,636		15,636		-		-		15,636
2014		24,687		24,687		581		581		25,268
2015		24,114		24,114		3,307		3,307		27,421
2016		19,008		19,008		1,274		459		20,282
2017		1,263		1,263		125		125		1,388

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants									
	NC PPI									
2012										-
2013										-
2014										581
2015										3,888
2016										5,162
2017										4,706

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		1,209		1,209		-		-		1,209
2013		16,845		16,845		-		-		16,845
2014		41,532		41,532		581		581		42,113
2015		65,646		65,646		3,888		3,888		69,534
2016		84,654		84,654		5,162		459		89,816
2017		85,917		85,917		5,287		584		91,204
2018		70,281		70,281		5,287		584		75,568
2019		45,594		45,594		4,706		-		50,300
2020		21,480		21,480		1,399		-		22,879
2021		2,472		2,472		125		-		2,597
2022		-		-		-		-		-

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		1,209		1,209		-		-		1,209
2013		16,845		16,845		-		-		16,845
2014		41,532		41,532		581		581		42,113
2015		65,646		65,646		3,888		3,888		69,534
2016		84,654		84,654		5,162		459		89,816
2017		85,917		85,917		5,287		584		91,204
2018		85,917		85,917		5,287		584		91,204
2019		85,917		85,917		5,287		-		91,204
2020		85,917		85,917		5,287		-		91,204
2021		85,917		85,917		5,287		-		91,204
2022		85,917		85,917		5,287		-		91,204

# Appendix C.12 Residential Heat Pump Tune-Up Program

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh/year)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		364,856		364,856		-		-		364,856
2013		4,605,801		4,605,801		-		-		4,605,801
2014		6,269,989		6,269,989		154,857		154,857		6,424,846
2015		5,067,124		5,067,124		843,691		843,691		5,910,815
2016		4,035,338		4,035,338		322,679		117,988		4,358,017
2017		135,944		135,944		32,050		32,050		167,993

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross (kWh)									
					NC PPI				System	
2012						-				
2013						-				
2014						26,155				
2015						692,663				
2016						1,195,769				
2017						1,197,063				

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		52,062		52,062		-		-		52,062
2013		2,945,048		2,945,048		-		-		2,945,048
2014		8,125,595		8,125,595		26,155		26,155		8,151,750
2015		14,025,136		14,025,136		692,663		692,663		14,717,799
2016		18,580,129		18,580,129		1,195,769		995,229		19,775,897
2017		20,786,520		20,786,520		1,351,920		148,680		22,138,440
2018		17,898,858		17,898,858		1,353,277		150,037		19,252,135
2019		12,718,311		12,718,311		1,327,122		104,289		14,045,433
2020		6,818,770		6,818,770		660,614		-		7,479,384
2021		2,263,778		2,263,778		157,509		-		2,421,286
2022		5,323		5,323		1,357		-		6,680

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Gross Energy (kWh)									
	VA IRP				NC IRP				System IRP	
2012		52,062				-				52,062
2013		2,997,111				-				2,997,111
2014		11,122,706				26,155				11,148,861
2015		25,147,842				718,818				25,866,660
2016		43,727,970				1,914,587				45,642,557
2017		64,514,491				3,266,507				67,780,998
2018		82,413,349				4,619,784				87,033,133
2019		95,131,660				5,946,906				101,078,565
2020		101,950,429				6,607,520				108,557,949
2021		104,214,207				6,765,029				110,979,236
2022		104,219,530				6,766,386				110,985,916

# Appendix C.12 Residential Heat Pump Tune-Up Program

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			250		250			-		-	250	302	-	302	0.21	-	0.21
2013			3,160		3,160			-		-	3,160	295	-	295	0.20	-	0.20
2014			3,198		3,198			80		80	3,278	254	267	254	0.13	0.14	0.13
2015			5,435		5,435			625		625	6,061	210	255	216	0.23	0.19	0.22
2016			3,003		3,003			241		88	3,243	212	253	215	0.16	0.19	0.16
2017			141		141			25		25	166	108	256	121	0.11	0.20	0.12

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
								NC PPI			System	VA	NC	System	VA	NC	System
2012								-									
2013								-									
2014								80					45			0.14	
2015								705					178			0.18	
2016								946					232			0.18	
2017								891					254			0.19	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			250		250			-		-	250	43	-	43	0.21	-	0.21
2013			3,410		3,410			-		-	3,410	175	-	175	0.20	-	0.20
2014			6,608		6,608			80		80	6,688	196	45	194	0.16	0.14	0.16
2015			12,043		12,043			705		705	12,749	212	178	212	0.18	0.18	0.18
2016			15,046		15,046			946		88	15,992	219	232	220	0.18	0.18	0.18
2017			15,187		15,187			971		113	16,158	242	256	243	0.18	0.18	0.18
2018			12,027		12,027			971		113	12,997	255	256	255	0.17	0.18	0.17
2019			8,828		8,828			891		-	9,719	279	282	279	0.19	0.19	0.19
2020			3,393		3,393			265		-	3,659	317	472	327	0.16	0.19	0.16
2021			391		391			25		-	415	916	1,260	932	0.16	0.20	0.16
2022			0		0			-		-	0	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA IRP					NC IRP			System IRP	VA	NC	System	VA	NC	System
2012			250					-			250	43	-	43	0.21	-	0.21
2013			3,410					-			3,410	178	-	178	0.20	-	0.20
2014			6,608					80			6,688	268	45	265	0.16	0.14	0.16
2015			12,043					705			12,749	383	185	372	0.18	0.18	0.18
2016			15,046					946			15,992	517	371	508	0.18	0.18	0.18
2017			15,187					971			16,158	751	618	743	0.18	0.18	0.18
2018			15,187					971			16,158	959	874	954	0.18	0.18	0.18
2019			15,187					971			16,158	1,107	1,125	1,108	0.18	0.18	0.18
2020			15,187					971			16,158	1,187	1,250	1,190	0.18	0.18	0.18
2021			15,187					971			16,158	1,213	1,280	1,217	0.18	0.18	0.18
2022			15,187					971			16,158	1,213	1,280	1,217	0.18	0.18	0.18

# Appendix C.13 Residential Duct Sealing Program

<b>PROGRAM:</b> Residential Duct Sealing
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 18.0 years

Table 1		Participation Program Participants											
Month	Year	VA				NC					System		
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D	System Cum for IRP E+G	
October	2012	2		2		2							2
November	2012	6		8		8							8
December	2012	0		8		8							8
January	2013	0		8		8							8
February	2013	16		24		24							24
March	2013	4		28		28							28
April	2013	23		51		51							51
May	2013	17		68		68							68
June	2013	11		79		79							79
July	2013	4		83		83							83
August	2013	7		90		90							90
September	2013	3		93		93							93
October	2013	10		103		103							103
November	2013	6		109		109							109
December	2013	7		116		116							116
January	2014	15		131		131	0		0		0		131
February	2014	6		137		137	0		0		0		137
March	2014	3		140		140	0		0		0		140
April	2014	9		149		149	0		0		0		149
May	2014	6		155		155	0		0		0		155
June	2014	6		161		161	0		0		0		161
July	2014	9		170		170	0		0		0		170
August	2014	5		175		175	0		0		0		175
September	2014	26		201		201	0		0		0		201
October	2014	82		283		283	0		0		0		283
November	2014	117		400		400	0		0		0		400
December	2014	117		517		517	0		0		0		517
January	2015	106		623		623	1		1		1		624
February	2015	163		786		786	28		29		29		815
March	2015	132		918		918	85		114		114		1,032
April	2015	201		1,119		1,119	60		174		174		1,293
May	2015	233		1,352		1,352	77		251		251		1,603
June	2015	262		1,614		1,614	59		310		310		1,924
July	2015	168		1,782		1,782	12		322		322		2,104
August	2015	185		1,967		1,967	0		322		322		2,289
September	2015	134		2,101		2,101	0		322		322		2,423
October	2015	68		2,169		2,169	1		323		323		2,492
November	2015	59		2,228		2,228	0		323		323		2,551
December	2015	149		2,377		2,377	0		323		323		2,700
January	2016	53		2,430		2,430	1		324		324		2,754
February	2016	96		2,526		2,526	26		350		350		2,876
March	2016	48		2,574		2,574	66		416		416		2,990
April	2016	48		2,622		2,622	49		465		465		3,087
May	2016	40		2,662		2,662	25		490		490		3,152
June	2016	48		2,710		2,710	21		511		511		3,221
July	2016	14		2,724		2,724	19		530	19	530		3,254
August	2016	36		2,760		2,760	6		536	25	536		3,296
September	2016	55		2,815		2,815	1		537	26	537		3,352
October	2016	67		2,882		2,882	3		540	29	540		3,422
November	2016	95		2,977		2,977	0		540	29	540		3,517
December	2016	58		3,035		3,035	0		540		29		3,575
January	2017	101		3,136		3,136	8		548		37		3,684
February	2017	147		3,283		3,283	5		553		42		3,836
March	2017	16		3,299		3,299	1		554		43		3,853
April	2017	0		3,299		3,299	0		554		43		3,853
May	2017	0		3,299		3,299	0		554		43		3,853
June	2017	0		3,299		3,299	0		554		43		3,853
July	2017	0		3,299		3,299	0		554		43		3,853
August	2017	0		3,299		3,299	0		554		43		3,853
September	2017	0		3,299		3,299	0		554		43		3,853
October	2017	0		3,299		3,299	0		554		43		3,853
November	2017	0		3,299		3,299	0		554		43		3,853
December	2017	0		3,299		3,299	0		554		43		3,853



# Appendix C.13 Residential Duct Sealing Program

Table 1		Energy Savings												
Month	Year	Gross kWh										System		
		VA					NC							
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP	
October	2012	264		264		264								264
November	2012	577		841		841								841
December	2012	0		841		841								841
January	2013	0		841		841								841
February	2013	2,888		3,729		3,729								3,729
March	2013	170		3,899		3,899								3,899
April	2013	1,716		5,615		5,615								5,615
May	2013	1,250		6,865		6,865								6,865
June	2013	1,175		8,039		8,039								8,039
July	2013	315		8,355		8,355								8,355
August	2013	684		9,039		9,039								9,039
September	2013	323		9,362		9,362								9,362
October	2013	535		9,897		9,897								9,897
November	2013	410		10,307		10,307								10,307
December	2013	599		10,905		10,905								10,905
January	2014	740		11,645		11,645	0		0			0		11,645
February	2014	270		11,915		11,915	0		0			0		11,915
March	2014	168		12,084		12,084	0		0			0		12,084
April	2014	565		12,649		12,649	0		0			0		12,649
May	2014	373		13,022		13,022	0		0			0		13,022
June	2014	479		13,500		13,500	0		0			0		13,500
July	2014	429		13,930		13,930	0		0			0		13,930
August	2014	263		14,193		14,193	0		0			0		14,193
September	2014	2,612		16,806		16,806	0		0			0		16,806
October	2014	4,550		21,355		21,355	0		0			0		21,355
November	2014	5,692		27,047		27,047	0		0			0		27,047
December	2014	5,906		32,953		32,953	0		0			0		32,953
January	2015	5,448		38,401		38,401	58		58			58		38,459
February	2015	7,642		46,043		46,043	1,649		1,707			1,707		47,750
March	2015	6,286		52,329		52,329	4,331		6,037			6,037		58,367
April	2015	9,099		61,428		61,428	3,171		9,208			9,208		70,637
May	2015	11,291		72,720		72,720	3,850		13,058			13,058		85,778
June	2015	12,135		84,855		84,855	3,005		16,063			16,063		100,918
July	2015	6,995		91,850		91,850	678		16,742			16,742		108,591
August	2015	8,560		100,410		100,410	0		16,742			16,742		117,151
September	2015	5,958		106,368		106,368	0		16,742			16,742		123,109
October	2015	3,014		109,382		109,382	50		16,791			16,791		126,173
November	2015	2,748		112,130		112,130	0		16,791			16,791		128,921
December	2015	6,181		118,311		118,311	0		16,791			16,791		135,102
January	2016	3,147		121,458		121,458	39		16,830			16,830		138,288
February	2016	4,683		126,141		126,141	1,237		18,068			18,068		144,209
March	2016	1,989		128,131		128,131	3,681		21,749			21,749		149,880
April	2016	2,173		130,304		130,304	2,362		24,111			24,111		154,415
May	2016	2,388		132,692		132,692	1,251		25,362			25,362		158,054
June	2016	2,284		134,975		134,975	864		26,226			26,226		161,202
July	2016	612		135,587		135,587	777		27,004			27,004		162,591
August	2016	1,494		137,081		137,081	414		27,418	1,191		27,418		164,499
September	2016	2,395		139,476		139,476	39		27,457	1,231		27,457		166,933
October	2016	3,208		142,685		142,685	95		27,553	1,326		27,553		170,237
November	2016	4,432		147,117		147,117	0		27,553	1,326		27,553		174,670
December	2016	1,971		149,088		149,088	0		27,553			27,553		176,641
January	2017	4,818		153,906		153,906	436		27,989			27,989		181,895
February	2017	6,556		160,462		160,462	193		28,181			28,181		188,644
March	2017	763		161,225		161,225	38		28,219			28,219		189,444
April	2017	0		161,225		161,225	0		28,219			28,219		189,444
May	2017	0		161,225		161,225	0		28,219			28,219		189,444
June	2017	0		161,225		161,225	0		28,219			28,219		189,444
July	2017	0		161,225		161,225	0		28,219			28,219		189,444
August	2017	0		161,225		161,225	0		28,219			28,219		189,444
September	2017	0		161,225		161,225	0		28,219			28,219		189,444
October	2017	0		161,225		161,225	0		28,219			28,219		189,444
November	2017	0		161,225		161,225	0		28,219			28,219		189,444
December	2017	0		161,225		161,225	0		28,219			28,219		189,444

# Appendix C.13 Residential Duct Sealing Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA					NC					System	VA	NC	System	VA	NC
VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP							
October	2012	4		4		4					4	132		132	1.82		1.82
November	2012	8		12		12					12	105		105	1.45		1.45
December	2012	0		12		12					12	105		105	1.45		1.45
January	2013	0		12		12					12	105		105	1.45		1.45
February	2013	40		51		51					51	155		155	2.14		2.14
March	2013	2		53		53					53	139		139	1.89		1.89
April	2013	24		77		77					77	110		110	1.50		1.50
May	2013	17		94		94					94	101		101	1.38		1.38
June	2013	16		110		110					110	102		102	1.39		1.39
July	2013	4		114		114					114	101		101	1.38		1.38
August	2013	9		124		124					124	100		100	1.37		1.37
September	2013	4		128		128					128	101		101	1.38		1.38
October	2013	7		136		136					136	96		96	1.32		1.32
November	2013	6		141		141					141	95		95	1.30		1.30
December	2013	8		149		149					149	94		94	1.29		1.29
January	2014	7		157		157	0		0	0	157	89	-	89	1.20	-	1.20
February	2014	3		159		159	0		0	0	159	87	-	87	1.16	-	1.16
March	2014	2		161		161	0		0	0	161	86	-	86	1.15	-	1.15
April	2014	6		166		166	0		0	0	166	85	-	85	1.12	-	1.12
May	2014	4		170		170	0		0	0	170	84	-	84	1.10	-	1.10
June	2014	5		175		175	0		0	0	175	84	-	84	1.09	-	1.09
July	2014	4		179		179	0		0	0	179	82	-	82	1.05	-	1.05
August	2014	3		182		182	0		0	0	182	81	-	81	1.04	-	1.04
September	2014	26		207		207	0		0	0	207	84	-	84	1.03	-	1.03
October	2014	45		252		252	0		0	0	252	75	-	75	0.89	-	0.89
November	2014	56		308		308	0		0	0	308	68	-	68	0.77	-	0.77
December	2014	58		366		366	0		0	0	366	64	-	64	0.71	-	0.71
January	2015	54		420		420	1		1	1	420	62	58	62	0.67	0.51	0.67
February	2015	75		495		495	15		15	15	510	59	59	59	0.63	0.52	0.63
March	2015	62		557		557	38		53	53	610	57	53	57	0.61	0.47	0.59
April	2015	89		646		646	28		81	81	727	55	53	55	0.58	0.47	0.56
May	2015	111		757		757	34		115	115	872	54	52	54	0.56	0.46	0.54
June	2015	119		876		876	26		142	142	1,018	53	52	52	0.54	0.46	0.53
July	2015	69		945		945	6		148	148	1,093	52	52	52	0.53	0.46	0.52
August	2015	84		1,029		1,029	0		148	148	1,177	51	52	51	0.52	0.46	0.51
September	2015	59		1,088		1,088	0		148	148	1,236	51	52	51	0.52	0.46	0.51
October	2015	30		1,118		1,118	0		148	148	1,266	50	52	51	0.52	0.46	0.51
November	2015	27		1,145		1,145	0		148	148	1,293	50	52	51	0.51	0.46	0.51
December	2015	61		1,205		1,205	0		148	148	1,354	50	52	50	0.51	0.46	0.50
January	2016	31		1,236		1,236	0		148	148	1,385	50	52	50	0.51	0.46	0.50
February	2016	46		1,282		1,282	11		159	159	1,442	50	52	50	0.51	0.46	0.50
March	2016	20		1,302		1,302	32		192	192	1,494	50	52	50	0.51	0.46	0.50
April	2016	21		1,323		1,323	21		213	213	1,536	50	52	50	0.50	0.46	0.50
May	2016	23		1,347		1,347	11		224	224	1,570	50	52	50	0.51	0.46	0.50
June	2016	22		1,369		1,369	8		231	231	1,600	50	51	50	0.51	0.45	0.50
July	2016	6		1,375		1,375	7		238	238	1,613	50	51	50	0.50	0.45	0.50
August	2016	15		1,390		1,390	4		242	242	1,632	50	51	50	0.50	0.45	0.50
September	2016	24		1,413		1,413	0		242	242	1,655	50	51	50	0.50	0.45	0.49
October	2016	32		1,445		1,445	1		243	243	1,688	50	51	50	0.50	0.45	0.49
November	2016	44		1,488		1,488	0		243	243	1,731	49	51	50	0.50	0.45	0.49
December	2016	19		1,508		1,508	0		243	243	1,751	49	51	49	0.50	0.45	0.49
January	2017	47		1,555		1,555	4		247	247	1,802	49	51	49	0.50	0.45	0.49
February	2017	64		1,620		1,620	2		249	249	1,868	49	51	49	0.49	0.45	0.49
March	2017	8		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
April	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
May	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
June	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
July	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
August	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
September	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
October	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
November	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49
December	2017	0		1,627		1,627	0		249	249	1,876	49	51	49	0.49	0.45	0.49

# Appendix C.13 Residential Duct Sealing Program

Table 1		Participation										
Month	Year	Program Participants									System Cum for IRP	
		VA				NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2018	0		3,299		3,299	0		554		43	3,853
February	2018	0		3,299		3,299	0		554		43	3,853
March	2018	0		3,299		3,299	0		554		43	3,853
April	2018	0		3,299		3,299	0		554		43	3,853
May	2018	0		3,299		3,299	0		554		43	3,853
June	2018	0		3,299		3,299	0		554		43	3,853
July	2018	0		3,299		3,299	0		554		43	3,853
August	2018	0		3,299		3,299	0		554		43	3,853
September	2018	0		3,299		3,299	0		554		43	3,853
October	2018	0		3,299		3,299	0		554		43	3,853
November	2018	0		3,299		3,299	0		554		43	3,853
December	2018	0		3,299		3,299	0		554		43	3,853
January	2019	0		3,299		3,299	0		554		43	3,853
February	2019	0		3,299		3,299	0		554		43	3,853
March	2019	0		3,299		3,299	0		554		43	3,853
April	2019	0		3,299		3,299	0		554		43	3,853
May	2019	0		3,299		3,299	0		554		43	3,853
June	2019	0		3,299		3,299	0		554		43	3,853
July	2019	0		3,299		3,299	0		554		43	3,853
August	2019	0		3,299		3,299	0		554	0	43	3,853
September	2019	0		3,299		3,299	0		554	0	43	3,853
October	2019	0		3,299		3,299	0		554	0	43	3,853
November	2019	0		3,299		3,299	0		554	0	43	3,853
December	2019	0		3,299		3,299	0		554	0	0	3,853
January	2020	0		3,299		3,299	0		554		0	3,853
February	2020	0		3,299		3,299	0		554		0	3,853
March	2020	0		3,299		3,299	0		554		0	3,853
April	2020	0		3,299		3,299	0		554		0	3,853
May	2020	0		3,299		3,299	0		554		0	3,853
June	2020	0		3,299		3,299	0		554		0	3,853
July	2020	0		3,299		3,299	0		554		0	3,853
August	2020	0		3,299		3,299	0		554		0	3,853
September	2020	0		3,299		3,299	0		554		0	3,853
October	2020	0		3,299		3,299	0		554		0	3,853
November	2020	0		3,299		3,299	0		554		0	3,853
December	2020	0		3,299		3,299	0		554		0	3,853
January	2021	0		3,299		3,299	0		554		0	3,853
February	2021	0		3,299		3,299	0		554		0	3,853
March	2021	0		3,299		3,299	0		554		0	3,853
April	2021	0		3,299		3,299	0		554		0	3,853
May	2021	0		3,299		3,299	0		554		0	3,853
June	2021	0		3,299		3,299	0		554		0	3,853
July	2021	0		3,299		3,299	0		554		0	3,853
August	2021	0		3,299		3,299	0		554		0	3,853
September	2021	0		3,299		3,299	0		554		0	3,853
October	2021	0		3,299		3,299	0		554		0	3,853
November	2021	0		3,299		3,299	0		554		0	3,853
December	2021	0		3,299		3,299	0		554		0	3,853
January	2022	0		3,299		3,299	0		554		0	3,853
February	2022	0		3,299		3,299	0		554		0	3,853
March	2022	0		3,299		3,299	0		554		0	3,853
April	2022	0		3,299		3,299	0		554		0	3,853
May	2022	0		3,299		3,299	0		554		0	3,853
June	2022	0		3,299		3,299	0		554		0	3,853
July	2022	0		3,299		3,299	0		554		0	3,853
August	2022	0		3,299		3,299	0		554		0	3,853
September	2022	0		3,299		3,299	0		554		0	3,853
October	2022	0		3,299		3,299	0		554		0	3,853
November	2022	0		3,299		3,299	0		554		0	3,853
December	2022	0		3,299		3,299	0		554		0	3,853

# Appendix C.13 Residential Duct Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
January	2018	0		161,225		161,225	0		28,219		1,993	189,444
February	2018	0		161,225		161,225	0		28,219		1,993	189,444
March	2018	0		161,225		161,225	0		28,219		1,993	189,444
April	2018	0		161,225		161,225	0		28,219		1,993	189,444
May	2018	0		161,225		161,225	0		28,219		1,993	189,444
June	2018	0		161,225		161,225	0		28,219		1,993	189,444
July	2018	0		161,225		161,225	0		28,219		1,993	189,444
August	2018	0		161,225		161,225	0		28,219		1,993	189,444
September	2018	0		161,225		161,225	0		28,219		1,993	189,444
October	2018	0		161,225		161,225	0		28,219		1,993	189,444
November	2018	0		161,225		161,225	0		28,219		1,993	189,444
December	2018	0		161,225		161,225	0		28,219		1,993	189,444
January	2019	0		161,225		161,225	0		28,219		1,993	189,444
February	2019	0		161,225		161,225	0		28,219		1,993	189,444
March	2019	0		161,225		161,225	0		28,219		1,993	189,444
April	2019	0		161,225		161,225	0		28,219		1,993	189,444
May	2019	0		161,225		161,225	0		28,219		1,993	189,444
June	2019	0		161,225		161,225	0		28,219		1,993	189,444
July	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
August	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
September	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
October	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
November	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
December	2019	0		161,225		161,225	0		28,219	0	1,993	189,444
January	2020	0		161,225		161,225	0		28,219		0	189,444
February	2020	0		161,225		161,225	0		28,219		0	189,444
March	2020	0		161,225		161,225	0		28,219		0	189,444
April	2020	0		161,225		161,225	0		28,219		0	189,444
May	2020	0		161,225		161,225	0		28,219		0	189,444
June	2020	0		161,225		161,225	0		28,219		0	189,444
July	2020	0		161,225		161,225	0		28,219		0	189,444
August	2020	0		161,225		161,225	0		28,219		0	189,444
September	2020	0		161,225		161,225	0		28,219		0	189,444
October	2020	0		161,225		161,225	0		28,219		0	189,444
November	2020	0		161,225		161,225	0		28,219		0	189,444
December	2020	0		161,225		161,225	0		28,219		0	189,444
January	2021	0		161,225		161,225	0		28,219		0	189,444
February	2021	0		161,225		161,225	0		28,219		0	189,444
March	2021	0		161,225		161,225	0		28,219		0	189,444
April	2021	0		161,225		161,225	0		28,219		0	189,444
May	2021	0		161,225		161,225	0		28,219		0	189,444
June	2021	0		161,225		161,225	0		28,219		0	189,444
July	2021	0		161,225		161,225	0		28,219		0	189,444
August	2021	0		161,225		161,225	0		28,219		0	189,444
September	2021	0		161,225		161,225	0		28,219		0	189,444
October	2021	0		161,225		161,225	0		28,219		0	189,444
November	2021	0		161,225		161,225	0		28,219		0	189,444
December	2021	0		161,225		161,225	0		28,219		0	189,444
January	2022	0		161,225		161,225	0		28,219		0	189,444
February	2022	0		161,225		161,225	0		28,219		0	189,444
March	2022	0		161,225		161,225	0		28,219		0	189,444
April	2022	0		161,225		161,225	0		28,219		0	189,444
May	2022	0		161,225		161,225	0		28,219		0	189,444
June	2022	0		161,225		161,225	0		28,219		0	189,444
July	2022	0		161,225		161,225	0		28,219		0	189,444
August	2022	0		161,225		161,225	0		28,219		0	189,444
September	2022	0		161,225		161,225	0		28,219		0	189,444
October	2022	0		161,225		161,225	0		28,219		0	189,444
November	2022	0		161,225		161,225	0		28,219		0	189,444
December	2022	0		161,225		161,225	0		28,219		0	189,444

# Appendix C.13 Residential Duct Sealing Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA				NC				Revenue (NLR)		System	VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP						
January	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
February	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
March	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
April	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
May	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
June	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
July	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
August	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
September	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
October	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
November	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
December	2018	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
January	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
February	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
March	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
April	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
May	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
June	2019	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
July	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
August	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
September	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
October	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
November	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
December	2019	0		1,627		1,627	0		249	0	18	1,876	49	51	49	0.49	0.45	0.49
January	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
February	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
March	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
April	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
May	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
June	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
July	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
August	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
September	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
October	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
November	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
December	2020	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
January	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
February	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
March	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
April	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
May	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
June	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
July	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
August	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
September	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
October	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
November	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
December	2021	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
January	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
February	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
March	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
April	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
May	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
June	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
July	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
August	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
September	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
October	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
November	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49
December	2022	0		1,627		1,627	0		249		18	1,876	49	51	49	0.49	0.45	0.49

# Appendix C.13 Residential Duct Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2023	0		3,299		3,299	0		554		0	3,853
February	2023	0		3,299		3,299	0		554		0	3,853
March	2023	0		3,299		3,299	0		554		0	3,853
April	2023	0		3,299		3,299	0		554		0	3,853
May	2023	0		3,299		3,299	0		554		0	3,853
June	2023	0		3,299		3,299	0		554		0	3,853
July	2023	0		3,299		3,299	0		554		0	3,853
August	2023	0		3,299		3,299	0		554		0	3,853
September	2023	0		3,299		3,299	0		554		0	3,853
October	2023	0		3,299		3,299	0		554		0	3,853
November	2023	0		3,299		3,299	0		554		0	3,853
December	2023	0		3,299		3,299	0		554		0	3,853
January	2024	0		3,299		3,299	0		554		0	3,853
February	2024	0		3,299		3,299	0		554		0	3,853
March	2024	0		3,299		3,299	0		554		0	3,853
April	2024	0		3,299		3,299	0		554		0	3,853
May	2024	0		3,299		3,299	0		554		0	3,853
June	2024	0		3,299		3,299	0		554		0	3,853
July	2024	0		3,299		3,299	0		554		0	3,853
August	2024	0		3,299		3,299	0		554		0	3,853
September	2024	0		3,299		3,299	0		554		0	3,853
October	2024	0		3,299		3,299	0		554		0	3,853
November	2024	0		3,299		3,299	0		554		0	3,853
December	2024	0		3,299		3,299	0		554		0	3,853
January	2025	0		3,299		3,299	0		554		0	3,853
February	2025	0		3,299		3,299	0		554		0	3,853
March	2025	0		3,299		3,299	0		554		0	3,853
April	2025	0		3,299		3,299	0		554		0	3,853
May	2025	0		3,299		3,299	0		554		0	3,853
June	2025	0		3,299		3,299	0		554		0	3,853
July	2025	0		3,299		3,299	0		554		0	3,853
August	2025	0		3,299		3,299	0		554		0	3,853
September	2025	0		3,299		3,299	0		554		0	3,853
October	2025	0		3,299		3,299	0		554		0	3,853
November	2025	0		3,299		3,299	0		554		0	3,853
December	2025	0		3,299		3,299	0		554		0	3,853
January	2026	0		3,299		3,299	0		554		0	3,853
February	2026	0		3,299		3,299	0		554		0	3,853
March	2026	0		3,299		3,299	0		554		0	3,853
April	2026	0		3,299		3,299	0		554		0	3,853
May	2026	0		3,299		3,299	0		554		0	3,853
June	2026	0		3,299		3,299	0		554		0	3,853
July	2026	0		3,299		3,299	0		554		0	3,853
August	2026	0		3,299		3,299	0		554		0	3,853
September	2026	0		3,299		3,299	0		554		0	3,853
October	2026	0		3,299		3,299	0		554		0	3,853
November	2026	0		3,299		3,299	0		554		0	3,853
December	2026	0		3,299		3,299	0		554		0	3,853
January	2027	0		3,299		3,299	0		554		0	3,853
February	2027	0		3,299		3,299	0		554		0	3,853
March	2027	0		3,299		3,299	0		554		0	3,853
April	2027	0		3,299		3,299	0		554		0	3,853
May	2027	0		3,299		3,299	0		554		0	3,853
June	2027	0		3,299		3,299	0		554		0	3,853
July	2027	0		3,299		3,299	0		554		0	3,853
August	2027	0		3,299		3,299	0		554		0	3,853
September	2027	0		3,299		3,299	0		554		0	3,853
October	2027	0		3,299		3,299	0		554		0	3,853
November	2027	0		3,299		3,299	0		554		0	3,853
December	2027	0		3,299		3,299	0		554		0	3,853

# Appendix C.13 Residential Duct Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2023	0		161,225		161,225	0		28,219		0	189,444
February	2023	0		161,225		161,225	0		28,219		0	189,444
March	2023	0		161,225		161,225	0		28,219		0	189,444
April	2023	0		161,225		161,225	0		28,219		0	189,444
May	2023	0		161,225		161,225	0		28,219		0	189,444
June	2023	0		161,225		161,225	0		28,219		0	189,444
July	2023	0		161,225		161,225	0		28,219		0	189,444
August	2023	0		161,225		161,225	0		28,219		0	189,444
September	2023	0		161,225		161,225	0		28,219		0	189,444
October	2023	0		161,225		161,225	0		28,219		0	189,444
November	2023	0		161,225		161,225	0		28,219		0	189,444
December	2023	0		161,225		161,225	0		28,219		0	189,444
January	2024	0		161,225		161,225	0		28,219		0	189,444
February	2024	0		161,225		161,225	0		28,219		0	189,444
March	2024	0		161,225		161,225	0		28,219		0	189,444
April	2024	0		161,225		161,225	0		28,219		0	189,444
May	2024	0		161,225		161,225	0		28,219		0	189,444
June	2024	0		161,225		161,225	0		28,219		0	189,444
July	2024	0		161,225		161,225	0		28,219		0	189,444
August	2024	0		161,225		161,225	0		28,219		0	189,444
September	2024	0		161,225		161,225	0		28,219		0	189,444
October	2024	0		161,225		161,225	0		28,219		0	189,444
November	2024	0		161,225		161,225	0		28,219		0	189,444
December	2024	0		161,225		161,225	0		28,219		0	189,444
January	2025	0		161,225		161,225	0		28,219		0	189,444
February	2025	0		161,225		161,225	0		28,219		0	189,444
March	2025	0		161,225		161,225	0		28,219		0	189,444
April	2025	0		161,225		161,225	0		28,219		0	189,444
May	2025	0		161,225		161,225	0		28,219		0	189,444
June	2025	0		161,225		161,225	0		28,219		0	189,444
July	2025	0		161,225		161,225	0		28,219		0	189,444
August	2025	0		161,225		161,225	0		28,219		0	189,444
September	2025	0		161,225		161,225	0		28,219		0	189,444
October	2025	0		161,225		161,225	0		28,219		0	189,444
November	2025	0		161,225		161,225	0		28,219		0	189,444
December	2025	0		161,225		161,225	0		28,219		0	189,444
January	2026	0		161,225		161,225	0		28,219		0	189,444
February	2026	0		161,225		161,225	0		28,219		0	189,444
March	2026	0		161,225		161,225	0		28,219		0	189,444
April	2026	0		161,225		161,225	0		28,219		0	189,444
May	2026	0		161,225		161,225	0		28,219		0	189,444
June	2026	0		161,225		161,225	0		28,219		0	189,444
July	2026	0		161,225		161,225	0		28,219		0	189,444
August	2026	0		161,225		161,225	0		28,219		0	189,444
September	2026	0		161,225		161,225	0		28,219		0	189,444
October	2026	0		161,225		161,225	0		28,219		0	189,444
November	2026	0		161,225		161,225	0		28,219		0	189,444
December	2026	0		161,225		161,225	0		28,219		0	189,444
January	2027	0		161,225		161,225	0		28,219		0	189,444
February	2027	0		161,225		161,225	0		28,219		0	189,444
March	2027	0		161,225		161,225	0		28,219		0	189,444
April	2027	0		161,225		161,225	0		28,219		0	189,444
May	2027	0		161,225		161,225	0		28,219		0	189,444
June	2027	0		161,225		161,225	0		28,219		0	189,444
July	2027	0		161,225		161,225	0		28,219		0	189,444
August	2027	0		161,225		161,225	0		28,219		0	189,444
September	2027	0		161,225		161,225	0		28,219		0	189,444
October	2027	0		161,225		161,225	0		28,219		0	189,444
November	2027	0		161,225		161,225	0		28,219		0	189,444
December	2027	0		161,225		161,225	0		28,219		0	189,444

# Appendix C.13 Residential Duct Sealing Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2023	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2024	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2025	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2026	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2027	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49



# Appendix C.13 Residential Duct Sealing Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2028	0		3,299		3,299	0		554		0	3,853
February	2028	0		3,299		3,299	0		554		0	3,853
March	2028	0		3,299		3,299	0		554		0	3,853
April	2028	0		3,299		3,299	0		554		0	3,853
May	2028	0		3,299		3,299	0		554		0	3,853
June	2028	0		3,299		3,299	0		554		0	3,853
July	2028	0		3,299		3,299	0		554		0	3,853
August	2028	0		3,299		3,299	0		554		0	3,853
September	2028	0		3,299		3,299	0		554		0	3,853
October	2028	0		3,299		3,299	0		554		0	3,853
November	2028	0		3,299		3,299	0		554		0	3,853
December	2028	0		3,299		3,299	0		554		0	3,853
January	2029	0		3,299		3,299	0		554		0	3,853
February	2029	0		3,299		3,299	0		554		0	3,853
March	2029	0		3,299		3,299	0		554		0	3,853
April	2029	0		3,299		3,299	0		554		0	3,853
May	2029	0		3,299		3,299	0		554		0	3,853
June	2029	0		3,299		3,299	0		554		0	3,853
July	2029	0		3,299		3,299	0		554		0	3,853
August	2029	0		3,299		3,299	0		554		0	3,853
September	2029	0		3,299		3,299	0		554		0	3,853
October	2029	0		3,299		3,299	0		554		0	3,853
November	2029	0		3,299		3,299	0		554		0	3,853
December	2029	0		3,299		3,299	0		554		0	3,853
January	2030	0		3,299		3,299	0		554		0	3,853
February	2030	0		3,299		3,299	0		554		0	3,853
March	2030	0		3,299		3,299	0		554		0	3,853
April	2030	0		3,299		3,299	0		554		0	3,853
May	2030	0		3,299		3,299	0		554		0	3,853
June	2030	0		3,299		3,299	0		554		0	3,853
July	2030	0		3,299		3,299	0		554		0	3,853
August	2030	0		3,299		3,299	0		554		0	3,853
September	2030	0		3,299		3,299	0		554		0	3,853
October	2030	0	-2	3,297		3,297	0		554		0	3,851
November	2030	0	-6	3,291		3,291	0		554		0	3,845
December	2030	0	0	3,291		3,291	0		554		0	3,845
January	2031	0	0	3,291		3,291	0		554		0	3,845
February	2031	0	-16	3,275		3,275	0		554		0	3,829
March	2031	0	-4	3,271		3,271	0		554		0	3,825
April	2031	0	-23	3,248		3,248	0		554		0	3,802
May	2031	0	-17	3,231		3,231	0		554		0	3,785
June	2031	0	-11	3,220		3,220	0		554		0	3,774
July	2031	0	-4	3,216		3,216	0		554		0	3,770
August	2031	0	-7	3,209		3,209	0		554		0	3,763
September	2031	0	-3	3,206		3,206	0		554		0	3,760
October	2031	0	-10	3,196		3,196	0		554		0	3,750
November	2031	0	-6	3,190		3,190	0		554		0	3,744
December	2031	0	-7	3,183		3,183	0		554		0	3,737
January	2032	0	-15	3,168		3,168	0		554		0	3,722
February	2032	0	-6	3,162		3,162	0		554		0	3,716
March	2032	0	-3	3,159		3,159	0		554		0	3,713
April	2032	0	-9	3,150		3,150	0		554		0	3,704
May	2032	0	-6	3,144		3,144	0		554		0	3,698
June	2032	0	-6	3,138		3,138	0		554		0	3,692
July	2032	0	-9	3,129		3,129	0		554		0	3,683
August	2032	0	-5	3,124		3,124	0		554		0	3,678
September	2032	0	-26	3,098		3,098	0		554		0	3,652
October	2032	0	-82	3,016		3,016	0		554		0	3,570
November	2032	0	-117	2,899		2,899	0		554		0	3,453
December	2032	0	-117	2,782		2,782	0		554		0	3,336

# Appendix C.13 Residential Duct Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2028	0		161,225		161,225	0		28,219		0	189,444
February	2028	0		161,225		161,225	0		28,219		0	189,444
March	2028	0		161,225		161,225	0		28,219		0	189,444
April	2028	0		161,225		161,225	0		28,219		0	189,444
May	2028	0		161,225		161,225	0		28,219		0	189,444
June	2028	0		161,225		161,225	0		28,219		0	189,444
July	2028	0		161,225		161,225	0		28,219		0	189,444
August	2028	0		161,225		161,225	0		28,219		0	189,444
September	2028	0		161,225		161,225	0		28,219		0	189,444
October	2028	0		161,225		161,225	0		28,219		0	189,444
November	2028	0		161,225		161,225	0		28,219		0	189,444
December	2028	0		161,225		161,225	0		28,219		0	189,444
January	2029	0		161,225		161,225	0		28,219		0	189,444
February	2029	0		161,225		161,225	0		28,219		0	189,444
March	2029	0		161,225		161,225	0		28,219		0	189,444
April	2029	0		161,225		161,225	0		28,219		0	189,444
May	2029	0		161,225		161,225	0		28,219		0	189,444
June	2029	0		161,225		161,225	0		28,219		0	189,444
July	2029	0		161,225		161,225	0		28,219		0	189,444
August	2029	0		161,225		161,225	0		28,219		0	189,444
September	2029	0		161,225		161,225	0		28,219		0	189,444
October	2029	0		161,225		161,225	0		28,219		0	189,444
November	2029	0		161,225		161,225	0		28,219		0	189,444
December	2029	0		161,225		161,225	0		28,219		0	189,444
January	2030	0		161,225		161,225	0		28,219		0	189,444
February	2030	0		161,225		161,225	0		28,219		0	189,444
March	2030	0		161,225		161,225	0		28,219		0	189,444
April	2030	0		161,225		161,225	0		28,219		0	189,444
May	2030	0		161,225		161,225	0		28,219		0	189,444
June	2030	0		161,225		161,225	0		28,219		0	189,444
July	2030	0		161,225		161,225	0		28,219		0	189,444
August	2030	0		161,225		161,225	0		28,219		0	189,444
September	2030	0		161,225		161,225	0		28,219		0	189,444
October	2030	0	-264	160,961		160,961	0		28,219		0	189,180
November	2030	0	-577	160,384		160,384	0		28,219		0	188,603
December	2030	0	0	160,384		160,384	0		28,219		0	188,603
January	2031	0	0	160,384		160,384	0		28,219		0	188,603
February	2031	0	-2,888	157,496		157,496	0		28,219		0	185,715
March	2031	0	-170	157,326		157,326	0		28,219		0	185,546
April	2031	0	-1,716	155,610		155,610	0		28,219		0	183,829
May	2031	0	-1,250	154,360		154,360	0		28,219		0	182,580
June	2031	0	-1,175	153,185		153,185	0		28,219		0	181,405
July	2031	0	-315	152,870		152,870	0		28,219		0	181,090
August	2031	0	-684	152,186		152,186	0		28,219		0	180,406
September	2031	0	-323	151,863		151,863	0		28,219		0	180,082
October	2031	0	-535	151,328		151,328	0		28,219		0	179,547
November	2031	0	-410	150,918		150,918	0		28,219		0	179,138
December	2031	0	-599	150,319		150,319	0		28,219		0	178,539
January	2032	0	-740	149,580		149,580	0		28,219		0	177,799
February	2032	0	-270	149,310		149,310	0		28,219		0	177,529
March	2032	0	-168	149,141		149,141	0		28,219		0	177,361
April	2032	0	-565	148,576		148,576	0		28,219		0	176,795
May	2032	0	-373	148,203		148,203	0		28,219		0	176,422
June	2032	0	-479	147,724		147,724	0		28,219		0	175,944
July	2032	0	-429	147,295		147,295	0		28,219		0	175,514
August	2032	0	-263	147,032		147,032	0		28,219		0	175,251
September	2032	0	-2,612	144,419		144,419	0		28,219		0	172,639
October	2032	0	-4,550	139,870		139,870	0		28,219		0	168,089
November	2032	0	-5,692	134,177		134,177	0		28,219		0	162,397
December	2032	0	-5,906	128,272		128,272	0		28,219		0	156,491

# Appendix C.13 Residential Duct Sealing Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	VA
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2028	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
November	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
December	2029	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
January	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
February	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
March	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
April	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
May	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
June	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
July	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
August	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
September	2030	0		1,627		1,627	0			249	0	1,876	49	51	49	0.49	0.45	0.49
October	2030	0	-4	1,624		1,624	0			249	0	1,872	49	51	49	0.49	0.45	0.49
November	2030	0	-8	1,616		1,616	0			249	0	1,864	49	51	49	0.49	0.45	0.48
December	2030	0	0	1,616		1,616	0			249	0	1,864	49	51	49	0.49	0.45	0.48
January	2031	0	0	1,616		1,616	0			249	0	1,864	49	51	49	0.49	0.45	0.48
February	2031	0	-40	1,576		1,576	0			249	0	1,825	48	51	49	0.48	0.45	0.48
March	2031	0	-2	1,574		1,574	0			249	0	1,823	48	51	49	0.48	0.45	0.48
April	2031	0	-24	1,551		1,551	0			249	0	1,799	48	51	48	0.48	0.45	0.47
May	2031	0	-17	1,533		1,533	0			249	0	1,782	48	51	48	0.47	0.45	0.47
June	2031	0	-16	1,517		1,517	0			249	0	1,766	48	51	48	0.47	0.45	0.47
July	2031	0	-4	1,513		1,513	0			249	0	1,762	48	51	48	0.47	0.45	0.47
August	2031	0	-9	1,503		1,503	0			249	0	1,752	47	51	48	0.47	0.45	0.47
September	2031	0	-4	1,499		1,499	0			249	0	1,748	47	51	48	0.47	0.45	0.46
October	2031	0	-7	1,492		1,492	0			249	0	1,740	47	51	48	0.47	0.45	0.46
November	2031	0	-6	1,486		1,486	0			249	0	1,735	47	51	48	0.47	0.45	0.46
December	2031	0	-8	1,478		1,478	0			249	0	1,727	47	51	48	0.46	0.45	0.46
January	2032	0	-7	1,471		1,471	0			249	0	1,719	47	51	48	0.46	0.45	0.46
February	2032	0	-3	1,468		1,468	0			249	0	1,717	47	51	48	0.46	0.45	0.46
March	2032	0	-2	1,466		1,466	0			249	0	1,715	47	51	48	0.46	0.45	0.46
April	2032	0	-6	1,461		1,461	0			249	0	1,710	47	51	48	0.46	0.45	0.46
May	2032	0	-4	1,457		1,457	0			249	0	1,706	47	51	48	0.46	0.45	0.46
June	2032	0	-5	1,452		1,452	0			249	0	1,701	47	51	48	0.46	0.45	0.46
July	2032	0	-4	1,448		1,448	0			249	0	1,697	47	51	48	0.46	0.45	0.46
August	2032	0	-3	1,446		1,446	0			249	0	1,694	47	51	48	0.46	0.45	0.46
September	2032	0	-26	1,420		1,420	0			249	0	1,669	47	51	47	0.46	0.45	0.46
October	2032	0	-45	1,375		1,375	0			249	0	1,624	46	51	47	0.46	0.45	0.45
November	2032	0	-56	1,319		1,319	0			249	0	1,568	46	51	47	0.46	0.45	0.45
December	2032	0	-58	1,261		1,261	0			249	0	1,510	46	51	47	0.45	0.45	0.45

# Appendix C.13 Residential Duct Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2033	0	-106	2,676		2,676	0	-1	553		-1	3,229
February	2033	0	-163	2,513		2,513	0	-28	525		-29	3,038
March	2033	0	-132	2,381		2,381	0	-85	440		-114	2,821
April	2033	0	-201	2,180		2,180	0	-60	380		-174	2,560
May	2033	0	-233	1,947		1,947	0	-77	303		-251	2,250
June	2033	0	-262	1,685		1,685	0	-59	244		-310	1,929
July	2033	0	-168	1,517		1,517	0	-12	232		-322	1,749
August	2033	0	-185	1,332		1,332	0	0	232		-322	1,564
September	2033	0	-134	1,198		1,198	0	0	232		-322	1,430
October	2033	0	-68	1,130		1,130	0	-1	231		-323	1,361
November	2033	0	-59	1,071		1,071	0	0	231		-323	1,302
December	2033	0	-149	922		922	0	0	231		-323	1,153
January	2034	0	-53	869		869	0	-1	230		-324	1,099
February	2034	0	-96	773		773	0	-26	204		-350	977
March	2034	0	-48	725		725	0	-66	138		-416	863
April	2034	0	-48	677		677	0	-49	89		-465	766
May	2034	0	-40	637		637	0	-25	64		-490	701
June	2034	0	-48	589		589	0	-21	43		-511	632
July	2034	0	-14	575		575	0	-19	24		-530	599
August	2034	0	-36	539		539	0	-6	18		-536	557
September	2034	0	-55	484		484	0	-1	17		-537	501
October	2034	0	-67	417		417	0	-3	14		-540	431
November	2034	0	-95	322		322	0	0	14		-540	336
December	2034	0	-58	264		264	0	0	14		-540	278
January	2035	0	-101	163		163	0	-8	6		-548	169
February	2035	0	-147	16		16	0	-5	1		-553	17
March	2035	0	-16	0		0	0	-1	0		-554	0
April	2035	0	0	0		0	0	0	0		-554	0
May	2035	0	0	0		0	0	0	0		-554	0
June	2035	0	0	0		0	0	0	0		-554	0
July	2035	0	0	0		0	0	0	0		-554	0
August	2035	0	0	0		0	0	0	0		-554	0
September	2035	0	0	0		0	0	0	0		-554	0
October	2035	0	0	0		0	0	0	0		-554	0
November	2035	0	0	0		0	0	0	0		-554	0
December	2035	0	0	0		0	0	0	0		-554	0

Table 2. EM&V Data Incremental by Vintage Year											
Program Participants											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			8		8			-		-	8
2013			108		108			-		-	108
2014			401		401			-		-	401
2015			1,860		1,860			323		323	2,183
2016			658		658			217		29	875
2017			264		264			14		14	278

Table 3. EM&V Data Annualized by Vintage Year											
Program Participants											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			8		8			-		-	8
2013			108		108			-		-	108
2014			401		401			-		-	401
2015			1,860		1,860			323		323	2,183
2016			658		658			217		29	875
2017			264		264			14		14	278

# Appendix C.13 Residential Duct Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh					NC				System	
		VA		VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
VA Monthly New	VA Monthly Retired											
January	2033	0	-5,448	122,824		122,824	0	-58	28,162		-58	150,985
February	2033	0	-7,642	115,182		115,182	0	-1,649	26,513		-1,707	141,695
March	2033	0	-6,286	108,895		108,895	0	-4,331	22,182		-6,037	131,077
April	2033	0	-9,099	99,796		99,796	0	-3,171	19,011		-9,208	118,808
May	2033	0	-11,291	88,505		88,505	0	-3,850	15,161		-13,058	103,666
June	2033	0	-12,135	76,370		76,370	0	-3,005	12,156		-16,063	88,527
July	2033	0	-6,995	69,375		69,375	0	-678	11,478		-16,742	80,853
August	2033	0	-8,560	60,815		60,815	0	0	11,478		-16,742	72,293
September	2033	0	-5,958	54,857		54,857	0	0	11,478		-16,742	66,335
October	2033	0	-3,014	51,843		51,843	0	-50	11,428		-16,791	63,271
November	2033	0	-2,748	49,095		49,095	0	0	11,428		-16,791	60,523
December	2033	0	-6,181	42,914		42,914	0	0	11,428		-16,791	54,342
January	2034	0	-3,147	39,767		39,767	0	-39	11,389		-16,830	51,156
February	2034	0	-4,683	35,083		35,083	0	-1,237	10,152		-18,068	45,235
March	2034	0	-1,989	33,094		33,094	0	-3,681	6,470		-21,749	39,565
April	2034	0	-2,173	30,921		30,921	0	-2,362	4,108		-24,111	35,029
May	2034	0	-2,388	28,533		28,533	0	-1,251	2,857		-25,362	31,390
June	2034	0	-2,284	26,250		26,250	0	-864	1,993		-26,226	28,243
July	2034	0	-612	25,638		25,638	0	-777	1,216		-27,004	26,853
August	2034	0	-1,494	24,144		24,144	0	-414	802		-27,418	24,945
September	2034	0	-2,395	21,749		21,749	0	-39	762		-27,457	22,511
October	2034	0	-3,208	18,540		18,540	0	-95	667		-27,553	19,207
November	2034	0	-4,432	14,108		14,108	0	0	667		-27,553	14,775
December	2034	0	-1,971	12,137		12,137	0	0	667		-27,553	12,803
January	2035	0	-4,818	7,319		7,319	0	-436	231		-27,989	7,550
February	2035	0	-6,556	763		763	0	-193	38		-28,181	801
March	2035	0	-763	0		0	0	-38	0		-28,219	0
April	2035	0	0	0		0	0	0	0		-28,219	0
May	2035	0	0	0		0	0	0	0		-28,219	0
June	2035	0	0	0		0	0	0	0		-28,219	0
July	2035	0	0	0		0	0	0	0		-28,219	0
August	2035	0	0	0		0	0	0	0		-28,219	0
September	2035	0	0	0		0	0	0	0		-28,219	0
October	2035	0	0	0		0	0	0	0		-28,219	0
November	2035	0	0	0		0	0	0	0		-28,219	0
December	2035	0	0	0		0	0	0	0		-28,219	0

Table 2. EM&V Data Incremental by Vintage Year									
	Gross Incremental Energy (kWh)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	1,946	1,946	-	-	1,946				
2013	76,759	76,759	-	-	76,759				
2014	70,234	70,234	-	-	70,234				
2015	598,792	598,792	146,730	146,730	745,521				
2016	205,001	205,001	95,389	76,519	300,390				
2017	137,557	137,557	7,734	7,734	145,291				

Table 3. EM&V Data Annualized by Vintage Year									
	Gross Annualized Energy (kWh/year)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	10,093	10,093	-	-	10,093				
2013	120,772	120,772	-	-	120,772				
2014	264,570	264,570	-	-	264,570				
2015	1,024,299	1,024,299	201,495	201,495	1,225,794				
2016	369,325	369,325	129,136	15,915	498,461				
2017	145,638	145,638	8,003	8,003	153,641				

# Appendix C.13 Residential Duct Sealing Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2033	0	-54	1,208		1,208	0	-1	248	-1	1,456	46	51	47	0.45	0.45	0.45	
February	2033	0	-75	1,132		1,132	0	-15	234	-15	1,366	46	51	47	0.45	0.45	0.45	
March	2033	0	-62	1,071		1,071	0	-38	196	-53	1,266	46	50	46	0.45	0.44	0.45	
April	2033	0	-89	981		981	0	-28	168	-81	1,149	46	50	46	0.45	0.44	0.45	
May	2033	0	-111	870		870	0	-34	134	-115	1,004	45	50	46	0.45	0.44	0.45	
June	2033	0	-119	751		751	0	-26	107	-142	858	45	50	46	0.45	0.44	0.44	
July	2033	0	-69	682		682	0	-6	101	-148	783	46	49	46	0.45	0.44	0.45	
August	2033	0	-84	598		598	0	0	101	-148	699	46	49	46	0.45	0.44	0.45	
September	2033	0	-59	539		539	0	0	101	-148	640	46	49	46	0.45	0.44	0.45	
October	2033	0	-30	510		510	0	0	101	-148	610	46	49	46	0.45	0.44	0.45	
November	2033	0	-27	483		483	0	0	101	-148	583	46	49	46	0.45	0.44	0.45	
December	2033	0	-61	422		422	0	0	101	-148	523	47	49	47	0.46	0.44	0.45	
January	2034	0	-31	391		391	0	0	100	-148	491	46	50	47	0.45	0.44	0.45	
February	2034	0	-46	345		345	0	-11	90	-159	435	45	50	46	0.45	0.44	0.44	
March	2034	0	-20	325		325	0	-32	57	-192	382	46	47	46	0.45	0.41	0.44	
April	2034	0	-21	304		304	0	-21	36	-213	340	46	46	46	0.45	0.41	0.44	
May	2034	0	-23	281		281	0	-11	25	-224	306	45	45	45	0.44	0.39	0.44	
June	2034	0	-22	258		258	0	-8	18	-231	276	45	46	45	0.44	0.41	0.44	
July	2034	0	-6	252		252	0	-7	11	-238	263	45	51	45	0.44	0.45	0.44	
August	2034	0	-15	237		237	0	-4	7	-242	244	45	45	45	0.44	0.39	0.44	
September	2034	0	-24	214		214	0	0	7	-242	221	45	45	45	0.44	0.40	0.44	
October	2034	0	-32	182		182	0	-1	6	-243	188	44	48	45	0.44	0.42	0.44	
November	2034	0	-44	139		139	0	0	6	-243	145	44	48	44	0.43	0.42	0.43	
December	2034	0	-19	119		119	0	0	6	-243	125	46	48	46	0.45	0.42	0.45	
January	2035	0	-47	72		72	0	-4	2	-247	74	45	38	45	0.44	0.34	0.44	
February	2035	0	-64	8		8	0	-2	0	-249	8	48	38	47	0.47	0.33	0.46	
March	2035	0	-8	0		0	0	0	0	-249	0	-	-	-	-	-	-	
April	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
May	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
June	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
July	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
August	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
September	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
October	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
November	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	
December	2035	0	0	0		0	0	0	0	-249	0	-	-	-	-	-	-	

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			12		12			-		-	12	243	-	243	1.45	-	1.45
2013			138		138			-		-	138	711	-	711	1.28	-	1.28
2014			217		217			-		-	217	175	-	175	0.54	-	0.54
2015			839		839			148		148	987	322	454	342	0.45	0.46	0.45
2016			302		302			95		12	397	312	440	343	0.46	0.44	0.45
2017			119		119			6		6	125	521	552	523	0.45	0.42	0.45

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			12		12			-		-	12	1,262	-	1,262	1.45	-	1.45
2013			138		138			-		-	138	1,118	-	1,118	1.28	-	1.28
2014			217		217			-		-	217	660	-	660	0.54	-	0.54
2015			839		839			148		148	987	551	624	562	0.45	0.46	0.45
2016			302		302			95		12	397	561	595	570	0.46	0.44	0.45
2017			119		119			6		6	125	552	572	553	0.45	0.42	0.45

# Appendix C.13 Residential Duct Sealing Program

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

Year	Program Participants							NC PPI	System
	VA								
2012								-	
2013								-	
2014								-	
2015								323	
2016								540	
2017								554	

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants							NC IRP	NC NLR	System IRP
	VA IRP	VA NLR								
2012	8	8					-	-	8	
2013	116	116					-	-	116	
2014	517	517					-	-	517	
2015	2,377	2,377					323	323	2,700	
2016	3,035	3,035					540	29	3,575	
2017	3,299	3,299					554	43	3,853	
2018	3,299	3,299					554	43	3,853	
2019	3,299	3,299					554	-	3,853	
2020	3,299	3,299					554	-	3,853	
2021	3,299	3,299					554	-	3,853	
2022	3,299	3,299					554	-	3,853	
2023	3,299	3,299					554	-	3,853	
2024	3,299	3,299					554	-	3,853	
2025	3,299	3,299					554	-	3,853	
2026	3,299	3,299					554	-	3,853	
2027	3,299	3,299					554	-	3,853	
2028	3,299	3,299					554	-	3,853	
2029	3,299	3,299					554	-	3,853	
2030	3,291	3,291					554	-	3,845	
2031	3,183	3,183					554	-	3,737	
2032	2,782	2,782					554	-	3,336	
2033	922	922					231	-	1,153	
2034	264	264					14	-	278	
2035	-	-					-	-	-	

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Program Participants							NC IRP	System IRP
	VA IRP	VA NLR							
2012	8	8					-	8	
2013	116	116					-	116	
2014	517	517					-	517	
2015	2,377	2,377					323	2,700	
2016	3,035	3,035					540	3,575	
2017	3,299	3,299					554	3,853	
2018	3,299	3,299					554	3,853	
2019	3,299	3,299					554	3,853	
2020	3,299	3,299					554	3,853	
2021	3,299	3,299					554	3,853	
2022	3,299	3,299					554	3,853	
2023	3,299	3,299					554	3,853	
2024	3,299	3,299					554	3,853	
2025	3,299	3,299					554	3,853	
2026	3,299	3,299					554	3,853	
2027	3,299	3,299					554	3,853	
2028	3,299	3,299					554	3,853	
2029	3,299	3,299					554	3,853	
2030	3,299	3,299					554	3,853	
2031	3,299	3,299					554	3,853	
2032	3,299	3,299					554	3,853	
2033	3,299	3,299					554	3,853	
2034	3,299	3,299					554	3,853	
2035	3,299	3,299					554	3,853	

# Appendix C.13 Residential Duct Sealing Program

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)									
	Gross (kWh)							NC PPI	System
	VA								
2012								-	
2013								-	
2014								-	
2015								146,730	
2016								296,884	
2017								338,365	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										
	Gross Energy (kWh)							NC IRP	NC NLR	System IRP
	VA IRP	VA NLR								
2012	1,946	1,946					-	-	1,946	
2013	86,852	86,852					-	-	86,852	
2014	201,099	201,099					-	-	201,099	
2015	994,226	994,226				146,730	146,730		1,140,956	
2016	1,624,735	1,624,735				296,884	244,431		1,921,619	
2017	1,926,616	1,926,616				338,365	23,649		2,264,980	
2018	1,934,698	1,934,698				338,633	23,917		2,273,331	
2019	1,934,698	1,934,698				338,633	19,931		2,273,331	
2020	1,934,698	1,934,698				338,633	-		2,273,331	
2021	1,934,698	1,934,698				338,633	-		2,273,331	
2022	1,934,698	1,934,698				338,633	-		2,273,331	
2023	1,934,698	1,934,698				338,633	-		2,273,331	
2024	1,934,698	1,934,698				338,633	-		2,273,331	
2025	1,934,698	1,934,698				338,633	-		2,273,331	
2026	1,934,698	1,934,698				338,633	-		2,273,331	
2027	1,934,698	1,934,698				338,633	-		2,273,331	
2028	1,934,698	1,934,698				338,633	-		2,273,331	
2029	1,934,698	1,934,698				338,633	-		2,273,331	
2030	1,932,751	1,932,751				338,633	-		2,271,384	
2031	1,847,846	1,847,846				338,633	-		2,186,479	
2032	1,733,599	1,733,599				338,633	-		2,072,232	
2033	940,471	940,471				191,904	-		1,132,375	
2034	309,963	309,963				41,749	-		351,712	
2035	8,082	8,082				269	-		8,350	

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)									
	Gross Energy (kWh)							NC IRP	System IRP
	VA IRP	VA NLR							
2012	1,946						-		1,946
2013	88,798						-		88,798
2014	289,897						-		289,897
2015	1,284,123					146,730			1,430,853
2016	2,908,858					443,613			3,352,471
2017	4,835,474					781,978			5,617,452
2018	6,770,171					1,120,611			7,890,782
2019	8,704,869					1,459,244			10,164,113
2020	10,639,566					1,797,878			12,437,444
2021	12,574,264					2,136,511			14,710,774
2022	14,508,961					2,475,144			16,984,105
2023	16,443,659					2,813,777			19,257,436
2024	18,378,356					3,152,410			21,530,767
2025	20,313,054					3,491,043			23,804,097
2026	22,247,751					3,829,677			26,077,428
2027	24,182,449					4,168,310			28,350,759
2028	26,117,146					4,506,943			30,624,089
2029	28,051,844					4,845,576			32,897,420
2030	29,984,595					5,184,209			35,168,805
2031	31,832,441					5,522,843			37,355,283
2032	33,566,040					5,861,476			39,427,515
2033	34,506,511					6,053,379			40,559,890
2034	34,816,474					6,095,129			40,911,603
2035	34,824,555					6,095,397			40,919,953



# Appendix C.13 Residential Duct Sealing Program

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA						NC PPI		System	VA	NC	System	VA	NC	System
2012							-				-			-	
2013							-				-			-	
2014							-				-			-	
2015							148				454			0.46	
2016							243				550			0.45	
2017							249				611			0.45	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant			
Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012		12		12			-		-	12	243	-	243	1.45	-	1.45
2013		149		149			-		-	149	749	-	749	1.29	-	1.29
2014		366		366			-		-	366	389	-	389	0.71	-	0.71
2015		1,205		1,205			148		148	1,354	418	454	423	0.51	0.46	0.50
2016		1,508		1,508			243		12	1,751	535	550	538	0.50	0.45	0.49
2017		1,627		1,627			249		18	1,876	584	611	588	0.49	0.45	0.49
2018		1,627		1,627			249		18	1,876	586	611	590	0.49	0.45	0.49
2019		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2020		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2021		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2022		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2023		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2024		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2025		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2026		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2027		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2028		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2029		1,627		1,627			249		-	1,876	586	611	590	0.49	0.45	0.49
2030		1,616		1,616			249		-	1,864	587	611	591	0.49	0.45	0.48
2031		1,478		1,478			249		-	1,727	581	611	585	0.46	0.45	0.46
2032		1,261		1,261			249		-	1,510	623	611	621	0.45	0.45	0.45
2033		422		422			101		-	523	1,020	831	982	0.46	0.44	0.45
2034		119		119			6		-	125	1,174	2,982	1,265	0.45	0.42	0.45
2035		-		-			-		-	-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)										Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant			
Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant			
		VA IRP					NC IRP			System IRP	VA	NC	System	VA	NC	System
2012		12					-			12	243	-	243	1.45	-	1.45
2013		149					-			149	766	-	766	1.29	-	1.29
2014		366					-			366	561	-	561	0.71	-	0.71
2015		1,205					148			1,354	540	454	530	0.51	0.46	0.50
2016		1,508					243			1,751	958	822	938	0.50	0.45	0.49
2017		1,627					249			1,876	1,466	1,412	1,458	0.49	0.45	0.49
2018		1,627					249			1,876	2,052	2,023	2,048	0.49	0.45	0.49
2019		1,627					249			1,876	2,639	2,634	2,638	0.49	0.45	0.49
2020		1,627					249			1,876	3,225	3,245	3,228	0.49	0.45	0.49
2021		1,627					249			1,876	3,812	3,857	3,818	0.49	0.45	0.49
2022		1,627					249			1,876	4,398	4,468	4,408	0.49	0.45	0.49
2023		1,627					249			1,876	4,984	5,079	4,998	0.49	0.45	0.49
2024		1,627					249			1,876	5,571	5,690	5,588	0.49	0.45	0.49
2025		1,627					249			1,876	6,157	6,302	6,178	0.49	0.45	0.49
2026		1,627					249			1,876	6,744	6,913	6,768	0.49	0.45	0.49
2027		1,627					249			1,876	7,330	7,524	7,358	0.49	0.45	0.49
2028		1,627					249			1,876	7,917	8,135	7,948	0.49	0.45	0.49
2029		1,627					249			1,876	8,503	8,747	8,538	0.49	0.45	0.49
2030		1,627					249			1,876	9,089	9,358	9,128	0.49	0.45	0.49
2031		1,627					249			1,876	9,649	9,969	9,695	0.49	0.45	0.49
2032		1,627					249			1,876	10,175	10,580	10,233	0.49	0.45	0.49
2033		1,627					249			1,876	10,460	10,927	10,527	0.49	0.45	0.49
2034		1,627					249			1,876	10,554	11,002	10,618	0.49	0.45	0.49
2035		1,627					249			1,876	10,556	11,003	10,620	0.49	0.45	0.49

# Appendix C.14 Residential Home Energy Check-Up Program

<b>PROGRAM:</b> Residential Home Energy Check-Up
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 10.0 years

Table 1		Participation												
Month	Year	Program Participants										System		
		VA					NC							
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP	
[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[B]	[F] =Σ[A] + Σ[-A retired] + B	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	[D]	[H] = Σ[C] + Σ[-C retired] + D	E+G				
October	2012	4		4		4								4
November	2012	6		10		10								10
December	2012	21		31		31								31
January	2013	22		53		53								53
February	2013	37		90		90								90
March	2013	14		104		104								104
April	2013	27		131		131								131
May	2013	42		173		173								173
June	2013	15		188		188								188
July	2013	15		203		203								203
August	2013	61		264		264								264
September	2013	75		339		339								339
October	2013	219		558		558								558
November	2013	305		863		863								863
December	2013	737		1,600		1,600								1,600
January	2014	540		2,140		2,140	0		0					2,140
February	2014	942		3,082		3,082	0		0					3,082
March	2014	877		3,959		3,959	0		0					3,959
April	2014	1,372		5,331		5,331	0		0					5,331
May	2014	1,247		6,578		6,578	0		0					6,578
June	2014	1,751		8,329		8,329	0		0					8,329
July	2014	2,023		10,352		10,352	0		0					10,352
August	2014	2,079		12,431		12,431	0		0					12,431
September	2014	3,222		15,653		15,653	0		0					15,653
October	2014	1,739		17,392		17,392	0		0					17,392
November	2014	544		17,936		17,936	0		0					17,936
December	2014	3,366		21,302		21,302	0		0					21,302
January	2015	1,829		23,131		23,131	0		0					23,131
February	2015	985		24,116		24,116	152		152					24,268
March	2015	957		25,073		25,073	156		308					25,381
April	2015	906		25,979		25,979	128		436					26,415
May	2015	1,038		27,017		27,017	237		673					27,690
June	2015	1,227		28,244		28,244	200		873					29,117
July	2015	1,219		29,463		29,463	86		959					30,422
August	2015	1,355		30,818		30,818	5		964					31,782
September	2015	1,500		32,318		32,318	27		991					33,309
October	2015	1,121		33,439		33,439	4		995					34,434
November	2015	1,107		34,546		34,546	0		995					35,541
December	2015	616		35,162		35,162	1		996					36,158
January	2016	737		35,899		35,899	3		999					36,898
February	2016	889		36,788		36,788	1		1,000					37,788
March	2016	1,301		38,089		38,089	0		1,000					39,089
April	2016	1,804		39,893		39,893	0		1,000					40,893
May	2016	2,211		42,104		42,104	0		1,000					43,104
June	2016	1,360		43,464		43,464	0		1,000					44,464
July	2016	1,348		44,812		44,812	0		1,000	0				45,812
August	2016	1,913		46,725		46,725	0		1,000	0				47,725
September	2016	880		47,605		47,605	0		1,000	0				48,605
October	2016	1,074		48,679		48,679	0		1,000	0				49,679
November	2016	1,328		50,007		50,007	0		1,000	0				51,007
December	2016	407		50,414		50,414	0		1,000	0				51,414
January	2017	1,069		51,483		51,483	5		1,005					52,488
February	2017	377		51,860		51,860	39		1,044					52,904
March	2017	54		51,914		51,914	5		1,049					52,963
April	2017	0		51,914		51,914	0		1,049					52,963
May	2017	0		51,914		51,914	0		1,049					52,963
June	2017	0		51,914		51,914	0		1,049					52,963
July	2017	0		51,914		51,914	0		1,049					52,963
August	2017	0		51,914		51,914	0		1,049					52,963
September	2017	0		51,914		51,914	0		1,049					52,963
October	2017	0		51,914		51,914	0		1,049					52,963
November	2017	0		51,914		51,914	0		1,049					52,963
December	2017	0		51,914		51,914	0		1,049					52,963

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Energy Savings											
Month	Year	Gross kWh										System Cum for IRP	
		VA					NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
October	2012	251		251		251							251
November	2012	431		681		681							681
December	2012	1,359		2,040		2,040							2,040
January	2013	1,254		3,295		3,295							3,295
February	2013	2,137		5,431		5,431							5,431
March	2013	905		6,336		6,336							6,336
April	2013	1,636		7,972		7,972							7,972
May	2013	2,691		10,663		10,663							10,663
June	2013	903		11,566		11,566							11,566
July	2013	1,030		12,596		12,596							12,596
August	2013	3,878		16,474		16,474							16,474
September	2013	4,678		21,152		21,152							21,152
October	2013	13,348		34,500		34,500							34,500
November	2013	18,822		53,322		53,322							53,322
December	2013	45,125		98,448		98,448							98,448
January	2014	21,730		120,178		120,178	0		0				120,178
February	2014	39,481		159,659		159,659	0		0				159,659
March	2014	34,726		194,385		194,385	0		0				194,385
April	2014	58,089		252,474		252,474	0		0				252,474
May	2014	49,930		302,405		302,405	0		0				302,405
June	2014	68,114		370,519		370,519	0		0				370,519
July	2014	73,873		444,392		444,392	0		0				444,392
August	2014	80,458		524,849		524,849	0		0				524,849
September	2014	165,970		690,819		690,819	0		0				690,819
October	2014	90,281		781,100		781,100	0		0				781,100
November	2014	29,805		810,905		810,905	0		0				810,905
December	2014	168,629		979,535		979,535	0		0				979,535
January	2015	74,464		1,053,999		1,053,999	0		0				1,053,999
February	2015	40,442		1,094,441		1,094,441	9,902		9,902				1,104,342
March	2015	37,809		1,132,250		1,132,250	8,686		18,587				1,150,837
April	2015	33,398		1,165,648		1,165,648	6,216		24,803				1,190,451
May	2015	36,994		1,202,642		1,202,642	10,531		35,334				1,237,976
June	2015	49,120		1,251,762		1,251,762	8,935		44,269				1,296,032
July	2015	48,873		1,300,635		1,300,635	3,355		47,624				1,348,260
August	2015	55,266		1,355,901		1,355,901	219		47,843				1,403,744
September	2015	67,609		1,423,510		1,423,510	1,314		49,158				1,472,668
October	2015	46,778		1,470,288		1,470,288	214		49,372				1,519,660
November	2015	51,943		1,522,231		1,522,231	0		49,372				1,571,602
December	2015	26,804		1,549,035		1,549,035	59		49,431				1,598,466
January	2016	25,870		1,574,904		1,574,904	97		49,529				1,624,433
February	2016	35,940		1,610,844		1,610,844	27		49,556				1,660,400
March	2016	44,722		1,655,566		1,655,566	0		49,556				1,705,122
April	2016	61,302		1,716,869		1,716,869	0		49,556				1,766,424
May	2016	78,783		1,795,652		1,795,652	0		49,556				1,845,208
June	2016	44,024		1,839,676		1,839,676	0		49,556				1,889,231
July	2016	51,664		1,891,340		1,891,340	0		49,556	0			1,940,896
August	2016	75,031		1,966,371		1,966,371	0		49,556	0			2,015,927
September	2016	34,863		2,001,235		2,001,235	0		49,556	0			2,050,790
October	2016	39,961		2,041,196		2,041,196	0		49,556	0			2,090,752
November	2016	57,410		2,098,606		2,098,606	0		49,556	0			2,148,162
December	2016	17,385		2,115,991		2,115,991	0		49,556	0			2,165,547
January	2017	50,028		2,166,019		2,166,019	475		50,031				2,216,050
February	2017	16,470		2,182,488		2,182,488	2,055		52,086				2,234,574
March	2017	2,467		2,184,956		2,184,956	391		52,476				2,237,432
April	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
May	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
June	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
July	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
August	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
September	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
October	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
November	2017	0		2,184,956		2,184,956	0		52,476				2,237,432
December	2017	0		2,184,956		2,184,956	0		52,476				2,237,432

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	VA
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
October	2012	0		0		0					0	63		63	0.11		0.11	
November	2012	1		1		1					1	68		68	0.11		0.11	
December	2012	2		3		3					3	66		66	0.10		0.10	
January	2013	2		5		5					5	62		62	0.10		0.10	
February	2013	3		8		8					8	60		60	0.09		0.09	
March	2013	1		10		10					10	61		61	0.09		0.09	
April	2013	2		12		12					12	61		61	0.09		0.09	
May	2013	4		16		16					16	62		62	0.09		0.09	
June	2013	1		18		18					18	62		62	0.09		0.09	
July	2013	1		19		19					19	62		62	0.09		0.09	
August	2013	6		25		25					25	62		62	0.09		0.09	
September	2013	7		32		32					32	62		62	0.09		0.09	
October	2013	20		51		51					51	62		62	0.09		0.09	
November	2013	28		79		79					79	62		62	0.09		0.09	
December	2013	64		143		143					143	62		62	0.09		0.09	
January	2014	29		172		172	0			0	172	56	-	56	0.08	-	0.08	
February	2014	52		225		225	0			0	225	52	-	52	0.07	-	0.07	
March	2014	47		272		272	0			0	272	49	-	49	0.07	-	0.07	
April	2014	76		348		348	0			0	348	47	-	47	0.07	-	0.07	
May	2014	66		414		414	0			0	414	46	-	46	0.06	-	0.06	
June	2014	94		508		508	0			0	508	44	-	44	0.06	-	0.06	
July	2014	112		620		620	0			0	620	43	-	43	0.06	-	0.06	
August	2014	115		735		735	0			0	735	42	-	42	0.06	-	0.06	
September	2014	192		927		927	0			0	927	44	-	44	0.06	-	0.06	
October	2014	101		1,028		1,028	0			0	1,028	45	-	45	0.06	-	0.06	
November	2014	30		1,058		1,058	0			0	1,058	45	-	45	0.06	-	0.06	
December	2014	191		1,249		1,249	0			0	1,249	46	-	46	0.06	-	0.06	
January	2015	94		1,343		1,343	0			0	1,343	46	-	46	0.06	-	0.06	
February	2015	52		1,395		1,395	10			10	1,405	45	65	46	0.06	0.07	0.06	
March	2015	49		1,444		1,444	9			19	1,463	45	60	45	0.06	0.06	0.06	
April	2015	42		1,486		1,486	7			26	1,511	45	57	45	0.06	0.06	0.06	
May	2015	46		1,532		1,532	11			37	1,569	45	53	45	0.06	0.05	0.06	
June	2015	61		1,593		1,593	10			47	1,640	44	51	45	0.06	0.05	0.06	
July	2015	58		1,652		1,652	4			50	1,702	44	50	44	0.06	0.05	0.06	
August	2015	66		1,718		1,718	0			50	1,768	44	50	44	0.06	0.05	0.06	
September	2015	78		1,796		1,796	1			52	1,848	44	50	44	0.06	0.05	0.06	
October	2015	55		1,851		1,851	0			52	1,903	44	50	44	0.06	0.05	0.06	
November	2015	60		1,911		1,911	0			52	1,963	44	50	44	0.06	0.05	0.06	
December	2015	32		1,944		1,944	0			52	1,996	44	50	44	0.06	0.05	0.06	
January	2016	33		1,977		1,977	0			52	2,029	44	50	44	0.06	0.05	0.05	
February	2016	43		2,020		2,020	0			52	2,072	44	50	44	0.05	0.05	0.05	
March	2016	56		2,076		2,076	0			52	2,128	43	50	44	0.05	0.05	0.05	
April	2016	78		2,153		2,153	0			52	2,206	43	50	43	0.05	0.05	0.05	
May	2016	100		2,253		2,253	0			52	2,305	43	50	43	0.05	0.05	0.05	
June	2016	56		2,309		2,309	0			52	2,362	42	50	42	0.05	0.05	0.05	
July	2016	63		2,372		2,372	0			52	2,424	42	50	42	0.05	0.05	0.05	
August	2016	88		2,460		2,460	0			52	2,513	42	50	42	0.05	0.05	0.05	
September	2016	42		2,502		2,502	0			52	2,554	42	50	42	0.05	0.05	0.05	
October	2016	48		2,550		2,550	0			52	2,602	42	50	42	0.05	0.05	0.05	
November	2016	66		2,616		2,616	0			52	2,668	42	50	42	0.05	0.05	0.05	
December	2016	21		2,637		2,637	0			52	2,689	42	50	42	0.05	0.05	0.05	
January	2017	55		2,692		2,692	0			53	2,744	42	50	42	0.05	0.05	0.05	
February	2017	19		2,710		2,710	2			54	2,765	42	50	42	0.05	0.05	0.05	
March	2017	3		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
April	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
May	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
June	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
July	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
August	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
September	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
October	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
November	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	
December	2017	0		2,713		2,713	0			55	2,768	42	50	42	0.05	0.05	0.05	

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2018	0		51,914		51,914	0		1,049		49	52,963
February	2018	0		51,914		51,914	0		1,049		49	52,963
March	2018	0		51,914		51,914	0		1,049		49	52,963
April	2018	0		51,914		51,914	0		1,049		49	52,963
May	2018	0		51,914		51,914	0		1,049		49	52,963
June	2018	0		51,914		51,914	0		1,049		49	52,963
July	2018	0		51,914		51,914	0		1,049		49	52,963
August	2018	0		51,914		51,914	0		1,049		49	52,963
September	2018	0		51,914		51,914	0		1,049		49	52,963
October	2018	0		51,914		51,914	0		1,049		49	52,963
November	2018	0		51,914		51,914	0		1,049		49	52,963
December	2018	0		51,914		51,914	0		1,049		49	52,963
January	2019	0		51,914		51,914	0		1,049		49	52,963
February	2019	0		51,914		51,914	0		1,049		49	52,963
March	2019	0		51,914		51,914	0		1,049		49	52,963
April	2019	0		51,914		51,914	0		1,049		49	52,963
May	2019	0		51,914		51,914	0		1,049		49	52,963
June	2019	0		51,914		51,914	0		1,049		49	52,963
July	2019	0		51,914		51,914	0		1,049	0	49	52,963
August	2019	0		51,914		51,914	0		1,049	0	49	52,963
September	2019	0		51,914		51,914	0		1,049	0	49	52,963
October	2019	0		51,914		51,914	0		1,049	0	49	52,963
November	2019	0		51,914		51,914	0		1,049	0	49	52,963
December	2019	0		51,914		51,914	0		1,049	0	49	52,963
January	2020	0		51,914		51,914	0		1,049		0	52,963
February	2020	0		51,914		51,914	0		1,049		0	52,963
March	2020	0		51,914		51,914	0		1,049		0	52,963
April	2020	0		51,914		51,914	0		1,049		0	52,963
May	2020	0		51,914		51,914	0		1,049		0	52,963
June	2020	0		51,914		51,914	0		1,049		0	52,963
July	2020	0		51,914		51,914	0		1,049		0	52,963
August	2020	0		51,914		51,914	0		1,049		0	52,963
September	2020	0		51,914		51,914	0		1,049		0	52,963
October	2020	0		51,914		51,914	0		1,049		0	52,963
November	2020	0		51,914		51,914	0		1,049		0	52,963
December	2020	0		51,914		51,914	0		1,049		0	52,963
January	2021	0		51,914		51,914	0		1,049		0	52,963
February	2021	0		51,914		51,914	0		1,049		0	52,963
March	2021	0		51,914		51,914	0		1,049		0	52,963
April	2021	0		51,914		51,914	0		1,049		0	52,963
May	2021	0		51,914		51,914	0		1,049		0	52,963
June	2021	0		51,914		51,914	0		1,049		0	52,963
July	2021	0		51,914		51,914	0		1,049		0	52,963
August	2021	0		51,914		51,914	0		1,049		0	52,963
September	2021	0		51,914		51,914	0		1,049		0	52,963
October	2021	0		51,914		51,914	0		1,049		0	52,963
November	2021	0		51,914		51,914	0		1,049		0	52,963
December	2021	0		51,914		51,914	0		1,049		0	52,963
January	2022	0		51,914		51,914	0		1,049		0	52,963
February	2022	0		51,914		51,914	0		1,049		0	52,963
March	2022	0		51,914		51,914	0		1,049		0	52,963
April	2022	0		51,914		51,914	0		1,049		0	52,963
May	2022	0		51,914		51,914	0		1,049		0	52,963
June	2022	0		51,914		51,914	0		1,049		0	52,963
July	2022	0		51,914		51,914	0		1,049		0	52,963
August	2022	0		51,914		51,914	0		1,049		0	52,963
September	2022	0		51,914		51,914	0		1,049		0	52,963
October	2022	0	-4	51,910		51,910	0		1,049		0	52,959
November	2022	0	-6	51,904		51,904	0		1,049		0	52,953
December	2022	0	-21	51,883		51,883	0		1,049		0	52,932

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
February	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
March	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
April	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
May	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
June	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
July	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
August	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
September	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
October	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
November	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
December	2018	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
January	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
February	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
March	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
April	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
May	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
June	2019	0		2,184,956		2,184,956	0		52,476		2,921	2,237,432
July	2019	0		2,184,956		2,184,956	0		52,476	0	2,921	2,237,432
August	2019	0		2,184,956		2,184,956	0		52,476	0	2,921	2,237,432
September	2019	0		2,184,956		2,184,956	0		52,476	0	2,921	2,237,432
October	2019	0		2,184,956		2,184,956	0		52,476	0	2,921	2,237,432
November	2019	0		2,184,956		2,184,956	0		52,476	0	2,237,432	2,237,432
December	2019	0		2,184,956		2,184,956	0		52,476	0	0	2,237,432
January	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
February	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
March	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
April	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
May	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
June	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
July	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
August	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
September	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
October	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
November	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
December	2020	0		2,184,956		2,184,956	0		52,476		0	2,237,432
January	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
February	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
March	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
April	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
May	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
June	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
July	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
August	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
September	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
October	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
November	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
December	2021	0		2,184,956		2,184,956	0		52,476		0	2,237,432
January	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
February	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
March	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
April	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
May	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
June	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
July	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
August	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
September	2022	0		2,184,956		2,184,956	0		52,476		0	2,237,432
October	2022	0	-251	2,184,705		2,184,705	0		52,476		0	2,237,182
November	2022	0	-431	2,184,274		2,184,274	0		52,476		0	2,236,751
December	2022	0	-1,359	2,182,915		2,182,915	0		52,476		0	2,235,392

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA				NC				System		VA	NC	System	VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
February	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
March	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
April	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
May	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
June	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
July	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
August	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
September	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
October	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
November	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
December	2018	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
January	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
February	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
March	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
April	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
May	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
June	2019	0		2,713		2,713	0			55	2	2,768	42	50	42	0.05	0.05	0.05
July	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
August	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
September	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
October	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
November	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
December	2019	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
January	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
February	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
March	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
April	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
May	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
June	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
July	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
August	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
September	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
October	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
November	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
December	2020	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
January	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
February	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
March	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
April	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
May	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
June	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
July	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
August	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
September	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
October	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
November	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
December	2021	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
January	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
February	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
March	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
April	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
May	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
June	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
July	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
August	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
September	2022	0		2,713		2,713	0			55	0	2,768	42	50	42	0.05	0.05	0.05
October	2022	0	0	2,713		2,713	0			55	0	2,767	42	50	42	0.05	0.05	0.05
November	2022	0	-1	2,712		2,712	0			55	0	2,767	42	50	42	0.05	0.05	0.05
December	2022	0	-2	2,710		2,710	0			55	0	2,765	42	50	42	0.05	0.05	0.05

# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Participation										
Month	Year	Program Participants					System					
		VA		VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC		NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
VA Monthly New	VA Monthly Retired	NC Monthly New	NC Monthly Retired									
January	2023	0	-22	51,861		51,861	0		1,049	0	52,910	
February	2023	0	-37	51,824		51,824	0		1,049	0	52,873	
March	2023	0	-14	51,810		51,810	0		1,049	0	52,859	
April	2023	0	-27	51,783		51,783	0		1,049	0	52,832	
May	2023	0	-42	51,741		51,741	0		1,049	0	52,790	
June	2023	0	-15	51,726		51,726	0		1,049	0	52,775	
July	2023	0	-15	51,711		51,711	0		1,049	0	52,760	
August	2023	0	-61	51,650		51,650	0		1,049	0	52,699	
September	2023	0	-75	51,575		51,575	0		1,049	0	52,624	
October	2023	0	-219	51,356		51,356	0		1,049	0	52,405	
November	2023	0	-305	51,051		51,051	0		1,049	0	52,100	
December	2023	0	-737	50,314		50,314	0		1,049	0	51,363	
January	2024	0	-540	49,774		49,774	0		1,049	0	50,823	
February	2024	0	-942	48,832		48,832	0		1,049	0	49,881	
March	2024	0	-877	47,955		47,955	0		1,049	0	49,004	
April	2024	0	-1,372	46,583		46,583	0		1,049	0	47,632	
May	2024	0	-1,247	45,336		45,336	0		1,049	0	46,385	
June	2024	0	-1,751	43,585		43,585	0		1,049	0	44,634	
July	2024	0	-2,023	41,562		41,562	0		1,049	0	42,611	
August	2024	0	-2,079	39,483		39,483	0		1,049	0	40,532	
September	2024	0	-3,222	36,261		36,261	0		1,049	0	37,310	
October	2024	0	-1,739	34,522		34,522	0		1,049	0	35,571	
November	2024	0	-544	33,978		33,978	0		1,049	0	35,027	
December	2024	0	-3,366	30,612		30,612	0		1,049	0	31,661	
January	2025	0	-1,829	28,783		28,783	0		1,049	0	29,832	
February	2025	0	-985	27,798		27,798	0	-152	897	-152	28,695	
March	2025	0	-957	26,841		26,841	0	-156	741	-308	27,582	
April	2025	0	-906	25,935		25,935	0	-128	613	-436	26,548	
May	2025	0	-1,038	24,897		24,897	0	-237	376	-673	25,273	
June	2025	0	-1,227	23,670		23,670	0	-200	176	-873	23,846	
July	2025	0	-1,219	22,451		22,451	0	-86	90	-959	22,541	
August	2025	0	-1,355	21,096		21,096	0	-5	85	-964	21,181	
September	2025	0	-1,500	19,596		19,596	0	-27	58	-991	19,654	
October	2025	0	-1,121	18,475		18,475	0	-4	54	-995	18,529	
November	2025	0	-1,107	17,368		17,368	0	0	54	-995	17,422	
December	2025	0	-616	16,752		16,752	0	-1	53	-996	16,805	
January	2026	0	-737	16,015		16,015	0	-3	50	-999	16,065	
February	2026	0	-889	15,126		15,126	0	-1	49	-1,000	15,175	
March	2026	0	-1,301	13,825		13,825	0	0	49	-1,000	13,874	
April	2026	0	-1,804	12,021		12,021	0	0	49	-1,000	12,070	
May	2026	0	-2,211	9,810		9,810	0	0	49	-1,000	9,859	
June	2026	0	-1,360	8,450		8,450	0	0	49	-1,000	8,499	
July	2026	0	-1,348	7,102		7,102	0	0	49	-1,000	7,151	
August	2026	0	-1,913	5,189		5,189	0	0	49	-1,000	5,238	
September	2026	0	-880	4,309		4,309	0	0	49	-1,000	4,358	
October	2026	0	-1,074	3,235		3,235	0	0	49	-1,000	3,284	
November	2026	0	-1,328	1,907		1,907	0	0	49	-1,000	1,956	
December	2026	0	-407	1,500		1,500	0	0	49	-1,000	1,549	
January	2027	0	-1,069	431		431	0	-5	44	-1,005	475	
February	2027	0	-377	54		54	0	-39	5	-1,044	59	
March	2027	0	-54	0		0	0	-5	0	-1,049	0	
April	2027	0	0	0		0	0	0	0	-1,049	0	
May	2027	0	0	0		0	0	0	0	-1,049	0	
June	2027	0	0	0		0	0	0	0	-1,049	0	
July	2027	0	0	0		0	0	0	0	-1,049	0	
August	2027	0	0	0		0	0	0	0	-1,049	0	
September	2027	0	0	0		0	0	0	0	-1,049	0	
October	2027	0	0	0		0	0	0	0	-1,049	0	
November	2027	0	0	0		0	0	0	0	-1,049	0	
December	2027	0	0	0		0	0	0	0	-1,049	0	

Table 2. EM&V Data Incremental by Vintage Year									
	Program Participants								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	31	31	-	-	31				
2013	1,569	1,569	-	-	1,569				
2014	19,702	19,702	-	-	19,702				
2015	13,860	13,860	996	996	14,856				
2016	15,252	15,252	4	-	15,256				
2017	1,500	1,500	49	49	1,549				
2018	0	0	0	0	0				



# Appendix C.14 Residential Home Energy Check-Up Program

Table 1		Energy Savings										
Month	Year	Gross kWh					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
January	2023	0	-1,254	2,181,661		2,181,661	0		52,476		0	2,234,138
February	2023	0	-2,137	2,179,525		2,179,525	0		52,476		0	2,232,001
March	2023	0	-905	2,178,619		2,178,619	0		52,476		0	2,231,096
April	2023	0	-1,636	2,176,984		2,176,984	0		52,476		0	2,229,460
May	2023	0	-2,691	2,174,293		2,174,293	0		52,476		0	2,226,769
June	2023	0	-903	2,173,390		2,173,390	0		52,476		0	2,225,866
July	2023	0	-1,030	2,172,360		2,172,360	0		52,476		0	2,224,837
August	2023	0	-3,878	2,168,482		2,168,482	0		52,476		0	2,220,958
September	2023	0	-4,678	2,163,804		2,163,804	0		52,476		0	2,216,280
October	2023	0	-13,348	2,150,456		2,150,456	0		52,476		0	2,202,933
November	2023	0	-18,822	2,131,634		2,131,634	0		52,476		0	2,184,110
December	2023	0	-45,125	2,086,508		2,086,508	0		52,476		0	2,138,985
January	2024	0	-21,730	2,064,778		2,064,778	0		52,476		0	2,117,254
February	2024	0	-39,481	2,025,296		2,025,296	0		52,476		0	2,077,773
March	2024	0	-34,726	1,990,571		1,990,571	0		52,476		0	2,043,047
April	2024	0	-58,089	1,932,482		1,932,482	0		52,476		0	1,984,958
May	2024	0	-49,930	1,882,551		1,882,551	0		52,476		0	1,935,028
June	2024	0	-68,114	1,814,437		1,814,437	0		52,476		0	1,866,913
July	2024	0	-73,873	1,740,564		1,740,564	0		52,476		0	1,793,041
August	2024	0	-80,458	1,660,107		1,660,107	0		52,476		0	1,712,583
September	2024	0	-165,970	1,494,137		1,494,137	0		52,476		0	1,546,614
October	2024	0	-90,281	1,403,856		1,403,856	0		52,476		0	1,456,332
November	2024	0	-29,805	1,374,051		1,374,051	0		52,476		0	1,426,527
December	2024	0	-168,629	1,205,421		1,205,421	0		52,476		0	1,257,898
January	2025	0	-74,464	1,130,957		1,130,957	0		52,476		0	1,183,433
February	2025	0	-40,442	1,090,515		1,090,515	0	-9,902	42,575	-9,902	0	1,133,090
March	2025	0	-37,809	1,052,706		1,052,706	0	-8,686	33,889	-18,587	0	1,086,595
April	2025	0	-33,398	1,019,308		1,019,308	0	-6,216	27,673	-24,803	0	1,046,981
May	2025	0	-36,994	982,314		982,314	0	-10,531	17,142	-35,334	0	999,456
June	2025	0	-49,120	933,193		933,193	0	-8,935	8,207	-44,269	0	941,400
July	2025	0	-48,873	884,320		884,320	0	-3,355	4,852	-47,624	0	889,172
August	2025	0	-55,266	829,055		829,055	0	-219	4,633	-47,843	0	833,688
September	2025	0	-67,609	761,446		761,446	0	-1,314	3,319	-49,158	0	764,765
October	2025	0	-46,778	714,668		714,668	0	-214	3,105	-49,372	0	717,773
November	2025	0	-51,943	662,725		662,725	0	0	3,105	-49,372	0	665,830
December	2025	0	-26,804	635,921		635,921	0	-59	3,045	-49,431	0	638,967
January	2026	0	-25,870	610,052		610,052	0	-97	2,948	-49,529	0	613,000
February	2026	0	-35,940	574,112		574,112	0	-27	2,921	-49,556	0	577,032
March	2026	0	-44,722	529,389		529,389	0	0	2,921	-49,556	0	532,310
April	2026	0	-61,302	468,087		468,087	0	0	2,921	-49,556	0	471,008
May	2026	0	-78,783	389,304		389,304	0	0	2,921	-49,556	0	392,225
June	2026	0	-44,024	345,280		345,280	0	0	2,921	-49,556	0	348,201
July	2026	0	-51,664	293,616		293,616	0	0	2,921	-49,556	0	296,537
August	2026	0	-75,031	218,584		218,584	0	0	2,921	-49,556	0	221,505
September	2026	0	-34,863	183,721		183,721	0	0	2,921	-49,556	0	186,642
October	2026	0	-39,961	143,760		143,760	0	0	2,921	-49,556	0	146,681
November	2026	0	-57,410	86,349		86,349	0	0	2,921	-49,556	0	89,270
December	2026	0	-17,385	68,965		68,965	0	0	2,921	-49,556	0	71,886
January	2027	0	-50,028	18,937		18,937	0	-475	2,446	-50,031	0	21,383
February	2027	0	-16,470	2,467		2,467	0	-2,055	391	-52,086	0	2,858
March	2027	0	-2,467	0		0	0	-391	0	-52,476	0	0
April	2027	0	0	0		0	0	0	0	-52,476	0	0
May	2027	0	0	0		0	0	0	0	-52,476	0	0
June	2027	0	0	0		0	0	0	0	-52,476	0	0
July	2027	0	0	0		0	0	0	0	-52,476	0	0
August	2027	0	0	0		0	0	0	0	-52,476	0	0
September	2027	0	0	0		0	0	0	0	-52,476	0	0
October	2027	0	0	0		0	0	0	0	-52,476	0	0
November	2027	0	0	0		0	0	0	0	-52,476	0	0
December	2027	0	0	0		0	0	0	0	-52,476	0	0

Table 2. EM&V Data Incremental by Vintage Year										
	Gross Incremental Energy (kWh)									
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA IRP	VA NLR	NC IRP	NC NLR	System IRP
2012	2,972	2,972	-	-	2,972	2,972	2,972	-	-	2,972
2013	257,270	257,270	-	-	257,270	257,270	257,270	-	-	257,270
2014	4,449,848	4,449,848	-	-	4,449,848	4,449,848	4,449,848	-	-	4,449,848
2015	3,767,927	3,767,927	425,696	425,696	4,193,623	3,767,927	3,767,927	425,696	425,696	4,193,623
2016	3,719,836	3,719,836	1,467	1,467	3,721,304	3,719,836	3,719,836	1,467	1,467	3,721,304
2017	806,172	806,172	32,215	32,215	838,387	806,172	806,172	32,215	32,215	838,387
2018	0	0	0	0	0	0	0	0	0	0



# Appendix C.14 Residential Home Energy Check-Up Program

**Table 3. EM&V Data Annualized by Vintage Year**

Year	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		31		31		-		-		31
2013		1,569		1,569		-		-		1,569
2014		19,702		19,702		-		-		19,702
2015		13,860		13,860		996		996		14,856
2016		15,252		15,252		4		-		15,256
2017		1,500		1,500		49		49		1,549
2018		0		0		0		0		0

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

Year	Program Participants									
	NC PPI									
2012										-
2013										-
2014										-
2015										996
2016										1,000
2017										1,049

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		31		31		-		-		31
2013		1,600		1,600		-		-		1,600
2014		21,302		21,302		-		-		21,302
2015		35,162		35,162		996		996		36,158
2016		50,414		50,414		1,000		-		51,414
2017		51,914		51,914		1,049		49		52,963
2018		51,914		51,914		1,049				52,963
2019		51,914		51,914		1,049				52,963
2020		51,914		51,914		1,049				52,963
2021		51,914		51,914		1,049				52,963
2022		51,883		51,883		1,049				52,932
2023		50,314		50,314		1,049				51,363
2024		30,612		30,612		1,049				31,661
2025		16,752		16,752		53				16,805
2026		1,500		1,500		49				1,549
2027		0		0		0				0

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		31		31		-		-		31
2013		1,600		1,600		-		-		1,600
2014		21,302		21,302		-		-		21,302
2015		35,162		35,162		996		996		36,158
2016		50,414		50,414		1,000		-		51,414
2017		51,914		51,914		1,049		49		52,963
2018		51,914		51,914		1,049				52,963
2019		51,914		51,914		1,049				52,963
2020		51,914		51,914		1,049				52,963
2021		51,914		51,914		1,049				52,963
2022		51,914		51,914		1,049				52,963
2023		51,914		51,914		1,049				52,963
2024		51,914		51,914		1,049				52,963
2025		51,914		51,914		1,049				52,963
2026		51,914		51,914		1,049				52,963
2027		51,914		51,914		1,049				52,963

# Appendix C.14 Residential Home Energy Check-Up Program

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh/year)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		24,484		24,484		-		-		24,484
2013		1,156,888		1,156,888		-		-		1,156,888
2014		10,573,042		10,573,042		-		-		10,573,042
2015		6,834,001		6,834,001		593,172		593,172		7,427,173
2016		6,803,477		6,803,477		1,495		0		6,804,972
2017		827,576		827,576		35,051		35,051		862,628
2018		0		0		0		0		0

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross (kWh)									
					NC PPI				System	
2012						-				
2013						-				
2014						-				
2015						425,696				
2016						594,640				
2017						626,882				

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2012		2,972		2,972		-		-		2,972
2013		281,754		281,754		-		-		281,754
2014		5,631,219		5,631,219		-		-		5,631,219
2015		15,522,341		15,522,341		425,696		425,696		15,948,037
2016		22,308,251		22,308,251		594,640		495,529		22,902,891
2017		26,198,065		26,198,065		626,882		32,215		26,824,946
2018		26,219,469		26,219,469		629,718		35,051		26,849,187
2019		26,219,469		26,219,469		629,718		29,209		26,849,187
2020		26,219,469		26,219,469		629,718		0		26,849,187
2021		26,219,469		26,219,469		629,718		0		26,849,187
2022		26,216,497		26,216,497		629,718		0		26,846,215
2023		25,937,715		25,937,715		629,718		0		26,567,433
2024		20,588,250		20,588,250		629,718		0		21,217,968
2025		10,697,128		10,697,128		204,022		0		10,901,150
2026		3,911,218		3,911,218		35,078		0		3,946,296
2027		21,404		21,404		2,836		0		24,241

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Gross Energy (kWh)									
	VA IRP				NC IRP				System IRP	
2012		2,972				-				2,972
2013		284,727				-				284,727
2014		5,915,946				-				5,915,946
2015		21,438,287				425,696				21,863,983
2016		43,746,538				1,020,336				44,766,874
2017		69,944,603				1,647,218				71,591,820
2018		96,164,072				2,276,935				98,441,007
2019		122,383,541				2,906,653				125,290,194
2020		148,603,010				3,536,371				152,139,381
2021		174,822,479				4,166,089				178,988,568
2022		201,038,975				4,795,807				205,834,783
2023		226,976,690				5,425,525				232,402,215
2024		247,564,940				6,055,243				253,620,183
2025		258,262,068				6,259,265				264,521,333
2026		262,173,285				6,294,343				268,467,629
2027		262,194,690				6,297,179				268,491,869

# Appendix C.14 Residential Home Energy Check-Up Program

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/ Participant			Annualized Capacity Savings/ Participant			
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			3		3			-		-	3	790	-	790	0.10	-	0.10
2013			140		140			-		-	140	737	-	737	0.09	-	0.09
2014			1,106		1,106			-		-	1,106	537	-	537	0.06	-	0.06
2015			695		695			52		52	747	493	596	500	0.05	0.05	0.05
2016			693		693			0.17		-	693	446	374	446	0.05	0.04	0.05
2017			76		76			2		2	79	552	715	557	0.05	0.05	0.05
2018			0		0			0		0	-	-	-	-	-	-	-

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/ Participant			PPI Capacity Savings/ Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
								NC PPI			System	VA	NC	System	VA	NC	System
2012								-									
2013								-									
2014								-									
2015								52					427			0.05	
2016								52					595			0.05	
2017								55					598			0.05	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/ Participant			IRP Capacity Savings/ Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012			3		3			-		-	3	96	-	96	0.10	-	0.10
2013			143		143			-		-	143	176	-	176	0.09	-	0.09
2014			1,249		1,249			-		-	1,249	264	-	264	0.06	-	0.06
2015			1,944		1,944			52		52	1,996	441	427	441	0.06	0.05	0.06
2016			2,637		2,637			52		-	2,689	443	595	445	0.05	0.05	0.05
2017			2,713		2,713			55		2	2,768	505	598	506	0.05	0.05	0.05
2018			2,713		2,713			55			2,768	505	600	507	0.05	0.05	0.05
2019			2,713		2,713			55			2,768	505	600	507	0.05	0.05	0.05
2020			2,713		2,713			55			2,768	505	600	507	0.05	0.05	0.05
2021			2,713		2,713			55			2,768	505	600	507	0.05	0.05	0.05
2022			2,710		2,710			55			2,765	505	600	507	0.05	0.05	0.05
2023			2,570		2,570			55			2,625	516	600	517	0.05	0.05	0.05
2024			1,464		1,464			55			1,519	673	600	670	0.05	0.05	0.05
2025			769		769			3			772	639	3,849	649	0.05	0.05	0.05
2026			76		76			2			79	2,607	716	2,548	0.05	0.05	0.05
2027			0		0			0			0	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy Savings/ Participant			Lifetime Capacity Savings/ Participant			
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant			
			VA IRP					NC IRP			System IRP	VA	NC	System	VA	NC	System
2012			3					-			3	96	-	96	0.10	-	0.10
2013			143					-			143	178	-	178	0.09	-	0.09
2014			1,249					-			1,249	278	-	278	0.06	-	0.06
2015			1,944					52			1,996	610	427	605	0.06	0.05	0.06
2016			2,637					52			2,689	868	1,020	871	0.05	0.05	0.05
2017			2,713					55			2,768	1,347	1,570	1,352	0.05	0.05	0.05
2018			2,713					55			2,768	1,852	2,171	1,859	0.05	0.05	0.05
2019			2,713					55			2,768	2,357	2,771	2,366	0.05	0.05	0.05
2020			2,713					55			2,768	2,862	3,371	2,873	0.05	0.05	0.05
2021			2,713					55			2,768	3,368	3,971	3,380	0.05	0.05	0.05
2022			2,713					55			2,768	3,873	4,572	3,886	0.05	0.05	0.05
2023			2,713					55			2,768	4,372	5,172	4,388	0.05	0.05	0.05
2024			2,713					55			2,768	4,769	5,772	4,789	0.05	0.05	0.05
2025			2,713					55			2,768	4,975	5,967	4,994	0.05	0.05	0.05
2026			2,713					55			2,768	5,050	6,000	5,069	0.05	0.05	0.05
2027			2,713					55			2,768	5,051	6,003	5,069	0.05	0.05	0.05

# Appendix C.15 Residential Appliance Recycling Program

<b>PROGRAM:</b> Residential Appliance Recycling Program
<b>DSM Phase IV Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 8.0 years

Table 1		Participation														
Month	Year	Program Participants										System				
		VA					NC									
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		System Cum for IRP			
January	2015	0		0		0		0		0		0		0		0
February	2015	0		0		0		0		0		0		0		0
March	2015	0		0		0		0		0		0		0		0
April	2015	0		0		0		0		0		0		0		0
May	2015	0		0		0		0		0		0		0		0
June	2015	0		0		0		0		0		0		0		0
July	2015	0		0		0		0		0		0		0		0
August	2015	0		0		0		0		0		0		0		0
September	2015	921		921		921		921		0		0		0		921
October	2015	1,008		1,929		1,929		1,929		0		0		0		1,929
November	2015	1,070		2,999		2,999		2,999		0		0		0		2,999
December	2015	207		3,206		3,206		3,206		0		0		0		3,206
January	2016	203		3,409		3,409	0	3,409		0		0		0		3,409
February	2016	4		3,413		3,413	0	3,413		0		0		0		3,413
March	2016	876		4,289		4,289	0	4,289		0		0		0		4,289
April	2016	653		4,942		4,942	0	4,942		0		0		0		4,942
May	2016	525		5,467		5,467	0	5,467		0		0		0		5,467
June	2016	1,204		6,671		6,671	0	6,671		0		0		0		6,671
July	2016	521		7,192		7,192	0	7,192		0		0		0		7,192
August	2016	1,102		8,294		8,294	0	8,294		0		0		0		8,294
September	2016	671		8,965		8,965	0	8,965		0		0		0		8,965
October	2016	615		9,580		9,580	0	9,580		0		0		0		9,580
November	2016	713		10,293		10,293	0	10,293		0		0		0		10,293
December	2016	648		10,941		10,941	0	10,941		0		0		0		10,941
January	2017	816		11,757		11,757	0	11,757		0		0		0		11,757
February	2017	313		12,070		12,070	0	12,070		0		0		0		12,070
March	2017	416		12,486		12,486	0	12,486		0		0		0		12,486
April	2017	511		12,997		12,997	0	12,997		0		0		0		12,997
May	2017	584		13,581		13,581	0	13,581		0		0		0		13,581
June	2017	475		14,056		14,056	0	14,056		0		0		0		14,056
July	2017	16		14,072		14,072	0	14,072		0		0		0		14,072
August	2017	0		14,072		14,072	0	14,072		0		0		0		14,072
September	2017	0		14,072		14,072	0	14,072		0		0		0		14,072
October	2017	0		14,072		14,072	0	14,072		0		0		0		14,072
November	2017	0		14,072		14,072	0	14,072		0		0		0		14,072
December	2017	0		14,072		14,072	0	14,072		0		0		0		14,072
January	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
February	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
March	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
April	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
May	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
June	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
July	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
August	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
September	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
October	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
November	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
December	2018	0		14,072		14,072	0	14,072		0		0		0		14,072
January	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
February	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
March	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
April	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
May	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
June	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
July	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
August	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
September	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
October	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
November	2019	0		14,072		14,072	0	14,072		0		0		0		14,072
December	2019	0		14,072		14,072	0	14,072		0		0		0		14,072

# Appendix C.15 Residential Appliance Recycling Program

Table 1		Energy Savings											
Month	Year	Gross kWh											
		VA					NC					System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	
January	2015	0		0		0				0		0	
February	2015	0		0		0				0		0	
March	2015	0		0		0				0		0	
April	2015	0		0		0				0		0	
May	2015	0		0		0				0		0	
June	2015	0		0		0				0		0	
July	2015	0		0		0				0		0	
August	2015	0		0		0				0		0	
September	2015	87,547		87,547		87,547				87,547		87,547	
October	2015	97,487		185,034		185,034				185,034		185,034	
November	2015	97,027		282,062		282,062				282,062		282,062	
December	2015	19,468		301,530		301,530				301,530		301,530	
January	2016	4,151		305,681		305,681	0			305,681		305,681	
February	2016	418		306,099		306,099	0			306,099		306,099	
March	2016	65,927		372,026		372,026	0			372,026		372,026	
April	2016	52,456		424,482		424,482	0			424,482		424,482	
May	2016	40,844		465,326		465,326	0			465,326		465,326	
June	2016	98,785		564,111		564,111	0			564,111		564,111	
July	2016	42,735		606,846		606,846	0			606,846		606,846	
August	2016	96,035		702,881		702,881	0			702,881		702,881	
September	2016	58,181		761,062		761,062	0			761,062		761,062	
October	2016	52,902		813,964		813,964	0			813,964		813,964	
November	2016	61,607		875,571		875,571	0			875,571		875,571	
December	2016	55,301		930,872		930,872	0			930,872		930,872	
January	2017	67,673		998,545		998,545	0			998,545		998,545	
February	2017	25,659		1,024,204		1,024,204	0			1,024,204		1,024,204	
March	2017	32,960		1,057,164		1,057,164	0			1,057,164		1,057,164	
April	2017	41,653		1,098,817		1,098,817	0			1,098,817		1,098,817	
May	2017	46,444		1,145,261		1,145,261	0			1,145,261		1,145,261	
June	2017	36,073		1,181,334		1,181,334	0			1,181,334		1,181,334	
July	2017	908		1,182,242		1,182,242	0			1,182,242		1,182,242	
August	2017	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
September	2017	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
October	2017	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
November	2017	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
December	2017	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
January	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
February	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
March	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
April	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
May	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
June	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
July	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
August	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
September	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
October	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
November	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
December	2018	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
January	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
February	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
March	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
April	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
May	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
June	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
July	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
August	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
September	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
October	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
November	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	
December	2019	0		1,182,242		1,182,242	0			1,182,242		1,182,242	

# Appendix C.15 Residential Appliance Recycling Program

Table 1		Capacity Savings											Energy Savings / Participant			Capacity Savings / Participant		
Month	Year	Gross kW											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA				NC				System			VA	NC	System	VA	NC	System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP						
January	2015	0		0		0				0		0	-	-	-	-	-	-
February	2015	0		0		0				0		0	-	-	-	-	-	-
March	2015	0		0		0				0		0	-	-	-	-	-	-
April	2015	0		0		0				0		0	-	-	-	-	-	-
May	2015	0		0		0				0		0	-	-	-	-	-	-
June	2015	0		0		0				0		0	-	-	-	-	-	-
July	2015	0		0		0				0		0	-	-	-	-	-	-
August	2015	0		0		0				0		0	-	-	-	-	-	-
September	2015	157		157		157				0		157	95	-	95	0.17	-	0.17
October	2015	175		332		332				0		332	96	-	96	0.17	-	0.17
November	2015	174		507		507				0		507	94	-	94	0.17	-	0.17
December	2015	35		542		542				0		542	94	-	94	0.17	-	0.17
January	2016	7		549		549	0			0		549	90	-	90	0.16	-	0.16
February	2016	1		550		550	0			0		550	90	-	90	0.16	-	0.16
March	2016	118		668		668	0			0		668	87	-	87	0.16	-	0.16
April	2016	94		762		762	0			0		762	86	-	86	0.15	-	0.15
May	2016	73		836		836	0			0		836	85	-	85	0.15	-	0.15
June	2016	177		1,013		1,013	0			0		1,013	85	-	85	0.15	-	0.15
July	2016	77		1,090		1,090	0			0		1,090	84	-	84	0.15	-	0.15
August	2016	172		1,262		1,262	0			0		1,262	85	-	85	0.15	-	0.15
September	2016	105		1,367		1,367	0			0		1,367	85	-	85	0.15	-	0.15
October	2016	95		1,462		1,462	0			0		1,462	85	-	85	0.15	-	0.15
November	2016	111		1,573		1,573	0			0		1,573	85	-	85	0.15	-	0.15
December	2016	99		1,672		1,672	0			0		1,672	85	-	85	0.15	-	0.15
January	2017	122		1,794		1,794	0			0		1,794	85	-	85	0.15	-	0.15
February	2017	46		1,840		1,840	0			0		1,840	85	-	85	0.15	-	0.15
March	2017	59		1,899		1,899	0			0		1,899	85	-	85	0.15	-	0.15
April	2017	75		1,974		1,974	0			0		1,974	85	-	85	0.15	-	0.15
May	2017	83		2,057		2,057	0			0		2,057	84	-	84	0.15	-	0.15
June	2017	65		2,122		2,122	0			0		2,122	84	-	84	0.15	-	0.15
July	2017	2		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
August	2017	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
September	2017	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
October	2017	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
November	2017	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
December	2017	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
January	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
February	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
March	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
April	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
May	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
June	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
July	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
August	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
September	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
October	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
November	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
December	2018	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
January	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
February	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
March	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
April	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
May	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
June	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
July	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
August	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
September	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
October	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
November	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15
December	2019	0		2,123		2,123	0			0		2,123	84	-	84	0.15	-	0.15



# Appendix C.15 Residential Appliance Recycling Program

Table 1		Participation										
Month	Year	Program Participants					System					
		VA		VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B)	NC		NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
VA Monthly New	VA Monthly Retired	NC Monthly New	NC Monthly Retired									
January	2020			14,072		14,072			0		0	14,072
February	2020			14,072		14,072			0		0	14,072
March	2020			14,072		14,072			0		0	14,072
April	2020			14,072		14,072			0		0	14,072
May	2020			14,072		14,072			0		0	14,072
June	2020			14,072		14,072			0		0	14,072
July	2020			14,072		14,072			0		0	14,072
August	2020			14,072		14,072			0		0	14,072
September	2020			14,072		14,072			0		0	14,072
October	2020			14,072		14,072			0		0	14,072
November	2020			14,072		14,072			0		0	14,072
December	2020			14,072		14,072			0		0	14,072
January	2021			14,072		14,072			0		0	14,072
February	2021			14,072		14,072			0		0	14,072
March	2021			14,072		14,072			0		0	14,072
April	2021			14,072		14,072			0		0	14,072
May	2021			14,072		14,072			0		0	14,072
June	2021			14,072		14,072			0		0	14,072
July	2021			14,072		14,072			0		0	14,072
August	2021			14,072		14,072			0		0	14,072
September	2021			14,072		14,072			0		0	14,072
October	2021			14,072		14,072			0		0	14,072
November	2021			14,072		14,072			0		0	14,072
December	2021			14,072		14,072			0		0	14,072
January	2022			14,072		14,072			0		0	14,072
February	2022			14,072		14,072			0		0	14,072
March	2022			14,072		14,072			0		0	14,072
April	2022			14,072		14,072			0		0	14,072
May	2022			14,072		14,072			0		0	14,072
June	2022			14,072		14,072			0		0	14,072
July	2022			14,072		14,072			0		0	14,072
August	2022			14,072		14,072			0		0	14,072
September	2022			14,072		14,072			0		0	14,072
October	2022			14,072		14,072			0		0	14,072
November	2022			14,072		14,072			0		0	14,072
December	2022			14,072		14,072			0		0	14,072
January	2023			14,072		14,072			0		0	14,072
February	2023			14,072		14,072			0		0	14,072
March	2023			14,072		14,072			0		0	14,072
April	2023			14,072		14,072			0		0	14,072
May	2023			14,072		14,072			0		0	14,072
June	2023			14,072		14,072			0		0	14,072
July	2023			14,072		14,072			0		0	14,072
August	2023			14,072		14,072			0		0	14,072
September	2023		-921	13,151		13,151			0		0	13,151
October	2023		-1,008	12,143		12,143			0		0	12,143
November	2023		-1,070	11,073		11,073			0		0	11,073
December	2023		-207	10,866		10,866			0		0	10,866
January	2024		-203	10,663		10,663			0		0	10,663
February	2024		-4	10,659		10,659			0		0	10,659
March	2024		-876	9,783		9,783			0		0	9,783
April	2024		-653	9,130		9,130			0		0	9,130
May	2024		-525	8,605		8,605			0		0	8,605
June	2024		-1,204	7,401		7,401			0		0	7,401
July	2024		-521	6,880		6,880			0		0	6,880
August	2024		-1,102	5,778		5,778			0		0	5,778
September	2024		-671	5,107		5,107			0		0	5,107
October	2024		-615	4,492		4,492			0		0	4,492
November	2024		-713	3,779		3,779			0		0	3,779
December	2024		-648	3,131		3,131			0		0	3,131
January	2025		-816	2,315		2,315			0		0	2,315
February	2025		-313	2,002		2,002			0		0	2,002
March	2025		-416	1,586		1,586			0		0	1,586
April	2025		-511	1,075		1,075			0		0	1,075
May	2025		-584	491		491			0		0	491
June	2025		-475	16		16			0		0	16
July	2025		-16	0		0			0		0	0
August	2025		0	0		0			0		0	0
September	2025		0	0		0			0		0	0
October	2025		0	0		0			0		0	0
November	2025		0	0		0			0		0	0
December	2025		0	0		0			0		0	0

# Appendix C.15 Residential Appliance Recycling Program

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2020			1,182,242		1,182,242			0		0	1,182,242
February	2020			1,182,242		1,182,242			0		0	1,182,242
March	2020			1,182,242		1,182,242			0		0	1,182,242
April	2020			1,182,242		1,182,242			0		0	1,182,242
May	2020			1,182,242		1,182,242			0		0	1,182,242
June	2020			1,182,242		1,182,242			0		0	1,182,242
July	2020			1,182,242		1,182,242			0		0	1,182,242
August	2020			1,182,242		1,182,242			0		0	1,182,242
September	2020			1,182,242		1,182,242			0		0	1,182,242
October	2020			1,182,242		1,182,242			0		0	1,182,242
November	2020			1,182,242		1,182,242			0		0	1,182,242
December	2020			1,182,242		1,182,242			0		0	1,182,242
January	2021			1,182,242		1,182,242			0		0	1,182,242
February	2021			1,182,242		1,182,242			0		0	1,182,242
March	2021			1,182,242		1,182,242			0		0	1,182,242
April	2021			1,182,242		1,182,242			0		0	1,182,242
May	2021			1,182,242		1,182,242			0		0	1,182,242
June	2021			1,182,242		1,182,242			0		0	1,182,242
July	2021			1,182,242		1,182,242			0		0	1,182,242
August	2021			1,182,242		1,182,242			0		0	1,182,242
September	2021			1,182,242		1,182,242			0		0	1,182,242
October	2021			1,182,242		1,182,242			0		0	1,182,242
November	2021			1,182,242		1,182,242			0		0	1,182,242
December	2021			1,182,242		1,182,242			0		0	1,182,242
January	2022			1,182,242		1,182,242			0		0	1,182,242
February	2022			1,182,242		1,182,242			0		0	1,182,242
March	2022			1,182,242		1,182,242			0		0	1,182,242
April	2022			1,182,242		1,182,242			0		0	1,182,242
May	2022			1,182,242		1,182,242			0		0	1,182,242
June	2022			1,182,242		1,182,242			0		0	1,182,242
July	2022			1,182,242		1,182,242			0		0	1,182,242
August	2022			1,182,242		1,182,242			0		0	1,182,242
September	2022			1,182,242		1,182,242			0		0	1,182,242
October	2022			1,182,242		1,182,242			0		0	1,182,242
November	2022			1,182,242		1,182,242			0		0	1,182,242
December	2022			1,182,242		1,182,242			0		0	1,182,242
January	2023			1,182,242		1,182,242			0		0	1,182,242
February	2023			1,182,242		1,182,242			0		0	1,182,242
March	2023			1,182,242		1,182,242			0		0	1,182,242
April	2023			1,182,242		1,182,242			0		0	1,182,242
May	2023			1,182,242		1,182,242			0		0	1,182,242
June	2023			1,182,242		1,182,242			0		0	1,182,242
July	2023			1,182,242		1,182,242			0		0	1,182,242
August	2023			1,182,242		1,182,242			0		0	1,182,242
September	2023		-87,547	1,094,694		1,094,694			0		0	1,094,694
October	2023		-97,487	997,207		997,207			0		0	997,207
November	2023		-97,027	900,180		900,180			0		0	900,180
December	2023		-19,468	880,712		880,712			0		0	880,712
January	2024		-4,151	876,561		876,561			0		0	876,561
February	2024		-418	876,143		876,143			0		0	876,143
March	2024		-65,927	810,216		810,216			0		0	810,216
April	2024		-52,456	757,760		757,760			0		0	757,760
May	2024		-40,844	716,915		716,915			0		0	716,915
June	2024		-98,785	618,130		618,130			0		0	618,130
July	2024		-42,735	575,396		575,396			0		0	575,396
August	2024		-96,035	479,361		479,361			0		0	479,361
September	2024		-58,181	421,180		421,180			0		0	421,180
October	2024		-52,902	368,278		368,278			0		0	368,278
November	2024		-61,607	306,671		306,671			0		0	306,671
December	2024		-55,301	251,369		251,369			0		0	251,369
January	2025		-67,673	183,696		183,696			0		0	183,696
February	2025		-25,659	158,038		158,038			0		0	158,038
March	2025		-32,960	125,078		125,078			0		0	125,078
April	2025		-41,653	83,425		83,425			0		0	83,425
May	2025		-46,444	36,981		36,981			0		0	36,981
June	2025		-36,073	908		908			0		0	908
July	2025		-908	0		0			0		0	0
August	2025		0	0		0			0		0	0
September	2025		0	0		0			0		0	0
October	2025		0	0		0			0		0	0
November	2025		0	0		0			0		0	0
December	2025		0	0		0			0		0	0



# Appendix C.15 Residential Appliance Recycling Program

**Table 2. EM&V Data Incremental by Vintage Year**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2015		3,206		3,206		-		-		3,206
2016		7,735		7,735		-		-		7,735
2017		3,131		3,131		-		-		3,131
2018		-		-		-		-		-

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2015		3,206		3,206		-		-		3,206
2016		7,735		7,735		-		-		7,735
2017		3,131		3,131		-		-		3,131
2018		-		-		-		-		-

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants									
	VA						NC PPI		System	
2015								-		
2016								-		
2017								-		

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Program Participants									
	VA IRP		VA NLR		NC IRP		NC NLR		System IRP	
2015		3,206		3,206		-		-		3,206
2016		10,941		10,941		-		-		10,941
2017		14,072		14,072		-		-		14,072
2018		14,072		14,072		-		-		14,072
2019		14,072		14,072		-		-		14,072
2020		14,072		14,072		-		-		14,072
2021		14,072		14,072		-		-		14,072
2022		14,072		14,072		-		-		14,072
2023		10,866		10,866		-		-		10,866
2024		3,131		3,131		-		-		3,131
2025		-		-		-		-		-

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

	Program Participants									
	VA Lifetime				NC Lifetime				System Lifetime	
2015		3,206				-				3,206
2016		10,941				-				10,941
2017		14,072				-				14,072
2018		14,072				-				14,072
2019		14,072				-				14,072
2020		14,072				-				14,072
2021		14,072				-				14,072
2022		14,072				-				14,072
2023		14,072				-				14,072
2024		14,072				-				14,072
2025		14,072				-				14,072

# Appendix C.15 Residential Appliance Recycling Program

**Table 2. EM&V Data Incremental by Vintage Year**

	Gross Incremental Energy (kWh)												
	VA IRP			VA NLR			NC IRP		NC NLR		System IRP		
2015			856,173			856,173			-			-	856,173
2016			3,510,563			3,510,563			-			-	3,510,563
2017			2,428,307			2,428,307			-			-	2,428,307
2018			-			-			-			-	-

**Table 3. EM&V Data Annualized by Vintage Year**

	Gross Annualized Energy (kWh)												
	VA IRP			VA NLR			NC IRP		NC NLR		System IRP		
2015			3,618,359			3,618,359			-			-	3,618,359
2016			7,552,110			7,552,110			-			-	7,552,110
2017			3,016,432			3,016,432			-			-	3,016,432
2018			-			-			-			-	-

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Gross Energy (kWh) for PPI											
	VA						NC PPI				System	
2015									-			
2016									-			
2017									-			

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Gross Energy (kWh)												
	VA IRP			VA NLR			NC IRP		NC NLR		System IRP		
2015			856,173			856,173			-			-	856,173
2016			7,128,922			7,128,922			-			-	7,128,922
2017			13,598,776			13,598,776			-			-	13,598,776
2018			14,186,901			14,186,901			-			-	14,186,901
2019			14,186,901			14,186,901			-			-	14,186,901
2020			14,186,901			14,186,901			-			-	14,186,901
2021			14,186,901			14,186,901			-			-	14,186,901
2022			14,186,901			14,186,901			-			-	14,186,901
2023			13,330,728			13,330,728			-			-	13,330,728
2024			7,057,979			7,057,979			-			-	7,057,979
2025			588,125			588,125			-			-	588,125

**Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)**

	Gross Energy (kWh)												
	VA Lifetime						NC Lifetime				System Lifetime		
2015			856,173						-				856,173
2016			7,985,095						-				7,985,095
2017			21,583,871						-				21,583,871
2018			35,770,772						-				35,770,772
2019			49,957,673						-				49,957,673
2020			64,144,573						-				64,144,573
2021			78,331,474						-				78,331,474
2022			92,518,375						-				92,518,375
2023			105,849,102						-				105,849,102
2024			112,907,081						-				112,907,081
2025			113,495,206						-				113,495,206

# Appendix C.15 Residential Appliance Recycling Program

Table 2. EM&V Data Incremental by Vintage Year										Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	
2015				542	542	-	-	542	267	-	267	0.17	-	0.17	
2016				1,130	1,130	-	-	1,130	454	-	454	0.15	-	0.15	
2017				451	451	-	-	451	776	-	776	0.14	-	0.14	
2018				-	-	-	-	-	-	-	-	-	-	-	

Table 3. EM&V Data Annualized by Vintage Year										Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	
2015				542	542	-	-	542	1,129	-	1,129	0.17	-	0.17	
2016				1,130	1,130	-	-	1,130	976	-	976	0.15	-	0.15	
2017				451	451	-	-	451	963	-	963	0.14	-	0.14	
2018				-	-	-	-	-	-	-	-	-	-	-	

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	
2015						-	-								
2016						-	-								
2017						-	-								

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA	NC	System	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System	
2015				542	542	-	-	542	267	-	267	0.17	-	0.17	
2016				1,672	1,672	-	-	1,672	652	-	652	0.15	-	0.15	
2017				2,123	2,123	-	-	2,123	966	-	966	0.15	-	0.15	
2018				2,123	2,123	-	-	2,123	1,008	-	1,008	0.15	-	0.15	
2019				2,123	2,123	-	-	2,123	1,008	-	1,008	0.15	-	0.15	
2020				2,123	2,123	-	-	2,123	1,008	-	1,008	0.15	-	0.15	
2021				2,123	2,123	-	-	2,123	1,008	-	1,008	0.15	-	0.15	
2022				2,123	2,123	-	-	2,123	1,008	-	1,008	0.15	-	0.15	
2023				1,582	1,582	-	-	1,582	1,227	-	1,227	0.15	-	0.15	
2024				451	451	-	-	451	2,254	-	2,254	0.14	-	0.14	
2025				-	-	-	-	-	-	-	-	-	-	-	

Table 6. Cumulative EM&V Data Accumulated through Vintage Year (Lifetime)										Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA	NC	System	VA Lifetime	VA NLR	NC Lifetime	NC NLR	System Lifetime	VA	NC	System	VA	NC	System	
2015				542		-		542	267	-	267	0.17	-	0.17	
2016				1,672		-		1,672	730	-	730	0.15	-	0.15	
2017				2,123		-		2,123	1,534	-	1,534	0.15	-	0.15	
2018				2,123		-		2,123	2,542	-	2,542	0.15	-	0.15	
2019				2,123		-		2,123	3,550	-	3,550	0.15	-	0.15	
2020				2,123		-		2,123	4,558	-	4,558	0.15	-	0.15	
2021				2,123		-		2,123	5,566	-	5,566	0.15	-	0.15	
2022				2,123		-		2,123	6,575	-	6,575	0.15	-	0.15	
2023				2,123		-		2,123	7,522	-	7,522	0.15	-	0.15	
2024				2,123		-		2,123	8,024	-	8,024	0.15	-	0.15	
2025				2,123		-		2,123	8,065	-	8,065	0.15	-	0.15	

# Appendix C.16 Non-residential Duct Testing and Sealing Program

<b>PROGRAM:</b> Non-Residential Duct Testing & Sealing
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 25.0 years

Table 1		Participation											
Month	Year	Program Participants										System Cum for IRP	
		VA					NC						
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)		
[A]	[-A retired]	[E] = Σ[A] + Σ[-A retired]	[B]	[F] =Σ[A] + Σ[-A retired] + B	[C]	[-C retired]	[G] = Σ[C] + Σ[-C retired]	[D]	[H] = Σ[C] + Σ[-C retired] + D	E+G			
October	2012	0		0		0							0
November	2012	1		1		1							1
December	2012	10		11		11							11
January	2013	2		13		13							13
February	2013	0		13		13							13
March	2013	8		21		21							21
April	2013	17		38		38							38
May	2013	12		50		50							50
June	2013	4		54		54							54
July	2013	27		81		81							81
August	2013	24		105		105							105
September	2013	67		172		172							172
October	2013	63		235		235							235
November	2013	30		265		265							265
December	2013	103		368		368							368
January	2014	22		390		390	0		0			0	390
February	2014	106		496		496	0		0			0	496
March	2014	243		739		739	0		0			0	739
April	2014	125		864		864	0		0			0	864
May	2014	115		979		979	0		0			0	979
June	2014	98		1,077		1,077	0		0			0	1,077
July	2014	166		1,243		1,243	0		0			0	1,243
August	2014	190		1,433		1,433	0		0			0	1,433
September	2014	206		1,639		1,639	0		0			0	1,639
October	2014	212		1,851		1,851	0		0			0	1,851
November	2014	137		1,988		1,988	46		46			46	2,034
December	2014	80		2,068		2,068	14		60			60	2,128
January	2015	100		2,168		2,168	12		72			72	2,240
February	2015	81		2,249		2,249	4		76			76	2,325
March	2015	116		2,365		2,365	2		78			78	2,443
April	2015	193		2,558		2,558	62		140			140	2,698
May	2015	112		2,670		2,670	13		153			153	2,823
June	2015	215		2,885		2,885	40		193			193	3,078
July	2015	101		2,986		2,986	9		202			202	3,188
August	2015	207		3,193		3,193	7		209			209	3,402
September	2015	250		3,443		3,443	0		209			209	3,652
October	2015	89		3,532		3,532	2		211			211	3,743
November	2015	93		3,625		3,625	1		212			212	3,837
December	2015	98		3,723		3,723	0		212			212	3,935
January	2016	49		3,772		3,772	0		212			212	3,984
February	2016	59		3,831		3,831	1		213			213	4,044
March	2016	41		3,872		3,872	0		213			213	4,085
April	2016	47		3,919		3,919	4		217			217	4,136
May	2016	21		3,940		3,940	3		220			220	4,160
June	2016	61		4,001		4,001	5		225			225	4,226
July	2016	52		4,053		4,053	4		229	4		229	4,282
August	2016	43		4,096		4,096	5		234	9		234	4,330
September	2016	61		4,157		4,157	1		235	10		235	4,392
October	2016	77		4,234		4,234	2		237	12		237	4,471
November	2016	72		4,306		4,306	8		245	20		245	4,551
December	2016	57		4,363		4,363	0		245	0		245	4,608
January	2017	42		4,405		4,405	3		248	0		248	4,653
February	2017	38		4,443		4,443	1		249	0		249	4,692
March	2017	1		4,444		4,444	1		250	0		250	4,694
April	2017	0		4,444		4,444	0		250	0		250	4,694
May	2017	0		4,444		4,444	0		250	0		250	4,694
June	2017	0		4,444		4,444	0		250	0		250	4,694
July	2017	0		4,444		4,444	0		250	0		250	4,694
August	2017	0		4,444		4,444	0		250	0		250	4,694
September	2017	0		4,444		4,444	0		250	0		250	4,694
October	2017	0		4,444		4,444	0		250	0		250	4,694
November	2017	0		4,444		4,444	0		250	0		250	4,694
December	2017	0		4,444		4,444	0		250	0		250	4,694

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings												
Month	Year	Gross kWh										System Cum for IRP		
		VA					NC							
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)			
October	2012	0		0		0								0
November	2012	180		180		180								180
December	2012	6,299		6,478		6,478								6,478
January	2013	2,354		8,832		8,832								8,832
February	2013	0		8,832		8,832								8,832
March	2013	2,611		11,443		11,443								11,443
April	2013	2,652		14,095		14,095								14,095
May	2013	3,722		17,816		17,816								17,816
June	2013	294		18,110		18,110								18,110
July	2013	13,795		31,906		31,906								31,906
August	2013	7,827		39,733		39,733								39,733
September	2013	27,826		67,559		67,559								67,559
October	2013	31,396		98,955		98,955								98,955
November	2013	11,454		110,409		110,409								110,409
December	2013	43,210		153,619		153,619								153,619
January	2014	13,218		166,837		166,837	0			0			0	166,837
February	2014	72,076		238,913		238,913	0			0			0	238,913
March	2014	111,865		350,779		350,779	0			0			0	350,779
April	2014	181,627		532,406		532,406	0			0			0	532,406
May	2014	102,031		634,437		634,437	0			0			0	634,437
June	2014	129,825		764,262		764,262	0			0			0	764,262
July	2014	287,856		1,052,118		1,052,118	0			0			0	1,052,118
August	2014	210,867		1,262,985		1,262,985	0			0			0	1,262,985
September	2014	363,779		1,626,764		1,626,764	0			0			0	1,626,764
October	2014	497,583		2,124,347		2,124,347	0			0			0	2,124,347
November	2014	291,989		2,416,336		2,416,336	45,596			45,596			45,596	2,461,932
December	2014	109,813		2,526,149		2,526,149	4,062			49,658			49,658	2,575,807
January	2015	201,891		2,728,040		2,728,040	35,926			85,583			85,583	2,813,623
February	2015	116,805		2,844,845		2,844,845	1,316			86,899			86,899	2,931,744
March	2015	103,437		2,948,282		2,948,282	2,005			88,904			88,904	3,037,186
April	2015	167,457		3,115,739		3,115,739	62,291			151,195			151,195	3,266,934
May	2015	59,933		3,175,672		3,175,672	20,520			171,715			171,715	3,347,387
June	2015	198,698		3,374,369		3,374,369	37,871			209,586			209,586	3,583,955
July	2015	58,395		3,432,764		3,432,764	20,271			229,857			229,857	3,662,621
August	2015	231,905		3,664,669		3,664,669	13,363			243,220			243,220	3,907,889
September	2015	217,522		3,882,190		3,882,190	0			243,220			243,220	4,125,410
October	2015	87,673		3,969,863		3,969,863	2,992			246,212			246,212	4,216,076
November	2015	88,982		4,058,845		4,058,845	3,513			249,726			249,726	4,308,571
December	2015	174,646		4,233,491		4,233,491	0			249,726			249,726	4,483,217
January	2016	185,981		4,419,472		4,419,472	0			249,726			249,726	4,669,198
February	2016	125,309		4,544,781		4,544,781	2,697			252,422			252,422	4,797,203
March	2016	64,244		4,609,025		4,609,025	0			252,422			252,422	4,861,447
April	2016	216,137		4,825,162		4,825,162	273			252,695			252,695	5,077,856
May	2016	212,483		5,037,644		5,037,644	500			253,195			253,195	5,290,839
June	2016	453,430		5,491,074		5,491,074	336			253,531			253,531	5,744,605
July	2016	112,152		5,603,226		5,603,226	16,577			270,107	16,577		270,107	5,873,333
August	2016	141,750		5,744,976		5,744,976	17,786			287,893	34,363		287,893	6,032,869
September	2016	182,701		5,927,677		5,927,677	235			288,128	34,598		288,128	6,215,805
October	2016	193,533		6,121,210		6,121,210	1,068			289,196	35,666		289,196	6,410,406
November	2016	182,431		6,303,640		6,303,640	6,374			295,570	42,040		42,040	6,599,211
December	2016	125,904		6,429,544		6,429,544	0			295,570			42,040	6,725,115
January	2017	240,780		6,670,325		6,670,325	844			296,414			42,884	6,966,739
February	2017	111,162		6,781,487		6,781,487	847			297,262			43,731	7,078,748
March	2017	2,335		6,783,822		6,783,822	13,663			310,925			57,394	7,094,747
April	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
May	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
June	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
July	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
August	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
September	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
October	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
November	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747
December	2017	0		6,783,822		6,783,822	0			310,925			57,394	7,094,747





# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2018	0		4,444			0		250		25	4,694
February	2018	0		4,444			0		250		25	4,694
March	2018	0		4,444			0		250		25	4,694
April	2018	0		4,444			0		250		25	4,694
May	2018	0		4,444			0		250		25	4,694
June	2018	0		4,444			0		250		25	4,694
July	2018	0		4,444			0		250		25	4,694
August	2018	0		4,444			0		250		25	4,694
September	2018	0		4,444			0		250		25	4,694
October	2018	0		4,444			0		250		25	4,694
November	2018	0		4,444			0		250		25	4,694
December	2018	0		4,444			0		250		25	4,694
January	2019	0		4,444			0		250		25	4,694
February	2019	0		4,444			0		250		25	4,694
March	2019	0		4,444			0		250		25	4,694
April	2019	0		4,444			0		250		25	4,694
May	2019	0		4,444			0		250		25	4,694
June	2019	0		4,444			0		250		25	4,694
July	2019	0		4,444			0		250		25	4,694
August	2019	0		4,444			0		250		25	4,694
September	2019	0		4,444			0		250		25	4,694
October	2019	0		4,444			0		250		25	4,694
November	2019	0		4,444			0		250		25	4,694
December	2019	0		4,444			0		250		25	4,694
January	2020	0		4,444			0		250		25	4,694
February	2020	0		4,444			0		250		25	4,694
March	2020	0		4,444			0		250		25	4,694
April	2020	0		4,444			0		250		25	4,694
May	2020	0		4,444			0		250		25	4,694
June	2020	0		4,444			0		250		25	4,694
July	2020	0		4,444			0		250	0	25	4,694
August	2020	0		4,444			0		250	0	25	4,694
September	2020	0		4,444			0		250	0	25	4,694
October	2020	0		4,444			0		250	0	25	4,694
November	2020	0		4,444			0		250	0	0	4,694
December	2020	0		4,444			0		250		0	4,694
January	2021	0		4,444			0		250		0	4,694
February	2021	0		4,444			0		250		0	4,694
March	2021	0		4,444			0		250		0	4,694
April	2021	0		4,444			0		250		0	4,694
May	2021	0		4,444			0		250		0	4,694
June	2021	0		4,444			0		250		0	4,694
July	2021	0		4,444			0		250		0	4,694
August	2021	0		4,444			0		250		0	4,694
September	2021	0		4,444			0		250		0	4,694
October	2021	0		4,444			0		250		0	4,694
November	2021	0		4,444			0		250		0	4,694
December	2021	0		4,444			0		250		0	4,694
January	2022	0		4,444			0		250		0	4,694
February	2022	0		4,444			0		250		0	4,694
March	2022	0		4,444			0		250		0	4,694
April	2022	0		4,444			0		250		0	4,694
May	2022	0		4,444			0		250		0	4,694
June	2022	0		4,444			0		250		0	4,694
July	2022	0		4,444			0		250		0	4,694
August	2022	0		4,444			0		250		0	4,694
September	2022	0		4,444			0		250		0	4,694
October	2022	0		4,444			0		250		0	4,694
November	2022	0		4,444			0		250		0	4,694
December	2022	0		4,444			0		250		0	4,694

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
February	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
March	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
April	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
May	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
June	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
July	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
August	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
September	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
October	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
November	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
December	2018	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
January	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
February	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
March	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
April	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
May	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
June	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
July	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
August	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
September	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
October	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
November	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
December	2019	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
January	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
February	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
March	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
April	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
May	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
June	2020	0		6,783,822		6,783,822	0		310,925		57,394	7,094,747
July	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
August	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
September	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
October	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
November	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
December	2020	0		6,783,822		6,783,822	0		310,925	0	57,394	7,094,747
January	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2021	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2022	0		6,783,822		6,783,822	0		310,925		0	7,094,747



# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC						System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2023	0		4,444			0		250		0	4,694
February	2023	0		4,444			0		250		0	4,694
March	2023	0		4,444			0		250		0	4,694
April	2023	0		4,444			0		250		0	4,694
May	2023	0		4,444			0		250		0	4,694
June	2023	0		4,444			0		250		0	4,694
July	2023	0		4,444			0		250		0	4,694
August	2023	0		4,444			0		250		0	4,694
September	2023	0		4,444			0		250		0	4,694
October	2023	0		4,444			0		250		0	4,694
November	2023	0		4,444			0		250		0	4,694
December	2023	0		4,444			0		250		0	4,694
January	2024	0		4,444			0		250		0	4,694
February	2024	0		4,444			0		250		0	4,694
March	2024	0		4,444			0		250		0	4,694
April	2024	0		4,444			0		250		0	4,694
May	2024	0		4,444			0		250		0	4,694
June	2024	0		4,444			0		250		0	4,694
July	2024	0		4,444			0		250		0	4,694
August	2024	0		4,444			0		250		0	4,694
September	2024	0		4,444			0		250		0	4,694
October	2024	0		4,444			0		250		0	4,694
November	2024	0		4,444			0		250		0	4,694
December	2024	0		4,444			0		250		0	4,694
January	2025	0		4,444			0		250		0	4,694
February	2025	0		4,444			0		250		0	4,694
March	2025	0		4,444			0		250		0	4,694
April	2025	0		4,444			0		250		0	4,694
May	2025	0		4,444			0		250		0	4,694
June	2025	0		4,444			0		250		0	4,694
July	2025	0		4,444			0		250		0	4,694
August	2025	0		4,444			0		250		0	4,694
September	2025	0		4,444			0		250		0	4,694
October	2025	0		4,444			0		250		0	4,694
November	2025	0		4,444			0		250		0	4,694
December	2025	0		4,444			0		250		0	4,694
January	2026	0		4,444			0		250		0	4,694
February	2026	0		4,444			0		250		0	4,694
March	2026	0		4,444			0		250		0	4,694
April	2026	0		4,444			0		250		0	4,694
May	2026	0		4,444			0		250		0	4,694
June	2026	0		4,444			0		250		0	4,694
July	2026	0		4,444			0		250		0	4,694
August	2026	0		4,444			0		250		0	4,694
September	2026	0		4,444			0		250		0	4,694
October	2026	0		4,444			0		250		0	4,694
November	2026	0		4,444			0		250		0	4,694
December	2026	0		4,444			0		250		0	4,694
January	2027	0		4,444			0		250		0	4,694
February	2027	0		4,444			0		250		0	4,694
March	2027	0		4,444			0		250		0	4,694
April	2027	0		4,444			0		250		0	4,694
May	2027	0		4,444			0		250		0	4,694
June	2027	0		4,444			0		250		0	4,694
July	2027	0		4,444			0		250		0	4,694
August	2027	0		4,444			0		250		0	4,694
September	2027	0		4,444			0		250		0	4,694
October	2027	0		4,444			0		250		0	4,694
November	2027	0		4,444			0		250		0	4,694
December	2027	0		4,444			0		250		0	4,694

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
January	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2023	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2024	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2025	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2026	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2027	0		6,783,822		6,783,822	0		310,925		0	7,094,747



# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	Cum for IRP
January	2028	0		4,444			0		250		0	4,694
February	2028	0		4,444			0		250		0	4,694
March	2028	0		4,444			0		250		0	4,694
April	2028	0		4,444			0		250		0	4,694
May	2028	0		4,444			0		250		0	4,694
June	2028	0		4,444			0		250		0	4,694
July	2028	0		4,444			0		250		0	4,694
August	2028	0		4,444			0		250		0	4,694
September	2028	0		4,444			0		250		0	4,694
October	2028	0		4,444			0		250		0	4,694
November	2028	0		4,444			0		250		0	4,694
December	2028	0		4,444			0		250		0	4,694
January	2029	0		4,444			0		250		0	4,694
February	2029	0		4,444			0		250		0	4,694
March	2029	0		4,444			0		250		0	4,694
April	2029	0		4,444			0		250		0	4,694
May	2029	0		4,444			0		250		0	4,694
June	2029	0		4,444			0		250		0	4,694
July	2029	0		4,444			0		250		0	4,694
August	2029	0		4,444			0		250		0	4,694
September	2029	0		4,444			0		250		0	4,694
October	2029	0		4,444			0		250		0	4,694
November	2029	0		4,444			0		250		0	4,694
December	2029	0		4,444			0		250		0	4,694
January	2030	0		4,444			0		250		0	4,694
February	2030	0		4,444			0		250		0	4,694
March	2030	0		4,444			0		250		0	4,694
April	2030	0		4,444			0		250		0	4,694
May	2030	0		4,444			0		250		0	4,694
June	2030	0		4,444			0		250		0	4,694
July	2030	0		4,444			0		250		0	4,694
August	2030	0		4,444			0		250		0	4,694
September	2030	0		4,444			0		250		0	4,694
October	2030	0		4,444			0		250		0	4,694
November	2030	0		4,444			0		250		0	4,694
December	2030	0		4,444			0		250		0	4,694
January	2031	0		4,444			0		250		0	4,694
February	2031	0		4,444			0		250		0	4,694
March	2031	0		4,444			0		250		0	4,694
April	2031	0		4,444			0		250		0	4,694
May	2031	0		4,444			0		250		0	4,694
June	2031	0		4,444			0		250		0	4,694
July	2031	0		4,444			0		250		0	4,694
August	2031	0		4,444			0		250		0	4,694
September	2031	0		4,444			0		250		0	4,694
October	2031	0		4,444			0		250		0	4,694
November	2031	0		4,444			0		250		0	4,694
December	2031	0		4,444			0		250		0	4,694
January	2032	0		4,444			0		250		0	4,694
February	2032	0		4,444			0		250		0	4,694
March	2032	0		4,444			0		250		0	4,694
April	2032	0		4,444			0		250		0	4,694
May	2032	0		4,444			0		250		0	4,694
June	2032	0		4,444			0		250		0	4,694
July	2032	0		4,444			0		250		0	4,694
August	2032	0		4,444			0		250		0	4,694
September	2032	0		4,444			0		250		0	4,694
October	2032	0		4,444			0		250		0	4,694
November	2032	0		4,444			0		250		0	4,694
December	2032	0		4,444			0		250		0	4,694



# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
January	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2028	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2029	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2030	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2031	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2032	0		6,783,822		6,783,822	0		310,925		0	7,094,747



# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Participation										
Month	Year	Program Participants										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2033	0		4,444			0		250		0	4,694
February	2033	0		4,444			0		250		0	4,694
March	2033	0		4,444			0		250		0	4,694
April	2033	0		4,444			0		250		0	4,694
May	2033	0		4,444			0		250		0	4,694
June	2033	0		4,444			0		250		0	4,694
July	2033	0		4,444			0		250		0	4,694
August	2033	0		4,444			0		250		0	4,694
September	2033	0		4,444			0		250		0	4,694
October	2033	0		4,444			0		250		0	4,694
November	2033	0		4,444			0		250		0	4,694
December	2033	0		4,444			0		250		0	4,694
January	2034	0		4,444			0		250		0	4,694
February	2034	0		4,444			0		250		0	4,694
March	2034	0		4,444			0		250		0	4,694
April	2034	0		4,444			0		250		0	4,694
May	2034	0		4,444			0		250		0	4,694
June	2034	0		4,444			0		250		0	4,694
July	2034	0		4,444			0		250		0	4,694
August	2034	0		4,444			0		250		0	4,694
September	2034	0		4,444			0		250		0	4,694
October	2034	0		4,444			0		250		0	4,694
November	2034	0		4,444			0		250		0	4,694
December	2034	0		4,444			0		250		0	4,694
January	2035	0		4,444			0		250		0	4,694
February	2035	0		4,444			0		250		0	4,694
March	2035	0		4,444			0		250		0	4,694
April	2035	0		4,444			0		250		0	4,694
May	2035	0		4,444			0		250		0	4,694
June	2035	0		4,444			0		250		0	4,694
July	2035	0		4,444			0		250		0	4,694
August	2035	0		4,444			0		250		0	4,694
September	2035	0		4,444			0		250		0	4,694
October	2035	0		4,444			0		250		0	4,694
November	2035	0		4,444			0		250		0	4,694
December	2035	0		4,444			0		250		0	4,694
January	2036	0		4,444			0		250		0	4,694
February	2036	0		4,444			0		250		0	4,694
March	2036	0		4,444			0		250		0	4,694
April	2036	0		4,444			0		250		0	4,694
May	2036	0		4,444			0		250		0	4,694
June	2036	0		4,444			0		250		0	4,694
July	2036	0		4,444			0		250		0	4,694
August	2036	0		4,444			0		250		0	4,694
September	2036	0		4,444			0		250		0	4,694
October	2036	0		4,444			0		250		0	4,694
November	2036	0		4,444			0		250		0	4,694
December	2036	0		4,444			0		250		0	4,694
January	2037	0		4,444			0		250		0	4,694
February	2037	0		4,444			0		250		0	4,694
March	2037	0		4,444			0		250		0	4,694
April	2037	0		4,444			0		250		0	4,694
May	2037	0		4,444			0		250		0	4,694
June	2037	0		4,444			0		250		0	4,694
July	2037	0		4,444			0		250		0	4,694
August	2037	0		4,444			0		250		0	4,694
September	2037	0		4,444			0		250		0	4,694
October	2037	0		4,444			0		250		0	4,694
November	2037	0	-1	4,443			0		250		0	4,693
December	2037	0	-10	4,433			0		250		0	4,683

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA					NC					System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	System Cum for IRP
January	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2033	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2034	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2035	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
December	2036	0		6,783,822		6,783,822	0		310,925		0	7,094,747
January	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
February	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
March	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
April	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
May	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
June	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
July	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
August	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
September	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
October	2037	0		6,783,822		6,783,822	0		310,925		0	7,094,747
November	2037	0	-180	6,783,643		6,783,643	0		310,925		0	7,094,567
December	2037	0	-6,299	6,777,344		6,777,344	0		310,925		0	7,088,269



# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Participation Program Participants										
Month	Year	VA				NC						System Cum for IRP
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] =Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2038	0	-2	4,431			0		250		0	4,681
February	2038	0	0	4,431			0		250		0	4,681
March	2038	0	-8	4,423			0		250		0	4,673
April	2038	0	-17	4,406			0		250		0	4,656
May	2038	0	-12	4,394			0		250		0	4,644
June	2038	0	-4	4,390			0		250		0	4,640
July	2038	0	-27	4,363			0		250		0	4,613
August	2038	0	-24	4,339			0		250		0	4,589
September	2038	0	-67	4,272			0		250		0	4,522
October	2038	0	-63	4,209			0		250		0	4,459
November	2038	0	-30	4,179			0		250		0	4,429
December	2038	0	-103	4,076			0		250		0	4,326
January	2039	0	-22	4,054			0		250		0	4,304
February	2039	0	-106	3,948			0		250		0	4,198
March	2039	0	-243	3,705			0		250		0	3,955
April	2039	0	-125	3,580			0		250		0	3,830
May	2039	0	-115	3,465			0		250		0	3,715
June	2039	0	-98	3,367			0		250		0	3,617
July	2039	0	-166	3,201			0		250		0	3,451
August	2039	0	-190	3,011			0		250		0	3,261
September	2039	0	-206	2,805			0		250		0	3,055
October	2039	0	-212	2,593			0		250		0	2,843
November	2039	0	-137	2,456			0	-46	204		-46	2,660
December	2039	0	-80	2,376			0	-14	190		-60	2,566
January	2040	0	-100	2,276			0	-12	178		-72	2,454
February	2040	0	-81	2,195			0	-4	174		-76	2,369
March	2040	0	-116	2,079			0	-2	172		-78	2,251
April	2040	0	-193	1,886			0	-62	110		-140	1,996
May	2040	0	-112	1,774			0	-13	97		-153	1,871
June	2040	0	-215	1,559			0	-40	57		-193	1,616
July	2040	0	-101	1,458			0	-9	48		-202	1,506
August	2040	0	-207	1,251			0	-7	41		-209	1,292
September	2040	0	-250	1,001			0	0	41		-209	1,042
October	2040	0	-89	912			0	-2	39		-211	951
November	2040	0	-93	819			0	-1	38		-212	857
December	2040	0	-98	721			0	0	38		-212	759
January	2041	0	-49	672			0	0	38		-212	710
February	2041	0	-59	613			0	-1	37		-213	650
March	2041	0	-41	572			0	0	37		-213	609
April	2041	0	-47	525			0	-4	33		-217	558
May	2041	0	-21	504			0	-3	30		-220	534
June	2041	0	-61	443			0	-5	25		-225	468
July	2041	0	-52	391			0	-4	21		-229	412
August	2041	0	-43	348			0	-5	16		-234	364
September	2041	0	-61	287			0	-1	15		-235	302
October	2041	0	-77	210			0	-2	13		-237	223
November	2041	0	-72	138			0	-8	5		-245	143
December	2041	0	-57	81			0	0	5		-245	86
January	2042	0	-42	39			0	-3	2		-248	41
February	2042	0	-38	1			0	-1	1		-249	2
March	2042	0	-1	0			0	-1	0		-250	0
April	2042	0	0	0			0	0	0		-250	0
May	2042	0	0	0			0	0	0		-250	0
June	2042	0	0	0			0	0	0		-250	0
July	2042	0	0	0			0	0	0		-250	0
August	2042	0	0	0			0	0	0		-250	0
September	2042	0	0	0			0	0	0		-250	0
October	2042	0	0	0			0	0	0		-250	0
November	2042	0	0	0			0	0	0		-250	0
December	2042	0	0	0			0	0	0		-250	0

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 1		Energy Savings										
Month	Year	Gross kWh										System Cum for IRP
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2038	0	-2,354	6,774,990		6,774,990	0		310,925		0	7,085,915
February	2038	0	0	6,774,990		6,774,990	0		310,925		0	7,085,915
March	2038	0	-2,611	6,772,379		6,772,379	0		310,925		0	7,083,304
April	2038	0	-2,652	6,769,727		6,769,727	0		310,925		0	7,080,652
May	2038	0	-3,722	6,766,006		6,766,006	0		310,925		0	7,076,931
June	2038	0	-294	6,765,712		6,765,712	0		310,925		0	7,076,637
July	2038	0	-13,795	6,751,917		6,751,917	0		310,925		0	7,062,841
August	2038	0	-7,827	6,744,089		6,744,089	0		310,925		0	7,055,014
September	2038	0	-27,826	6,716,263		6,716,263	0		310,925		0	7,027,188
October	2038	0	-31,396	6,684,867		6,684,867	0		310,925		0	6,995,792
November	2038	0	-11,454	6,673,413		6,673,413	0		310,925		0	6,984,338
December	2038	0	-43,210	6,630,203		6,630,203	0		310,925		0	6,941,128
January	2039	0	-13,218	6,616,985		6,616,985	0		310,925		0	6,927,910
February	2039	0	-72,076	6,544,909		6,544,909	0		310,925		0	6,855,834
March	2039	0	-111,865	6,433,043		6,433,043	0		310,925		0	6,743,968
April	2039	0	-181,627	6,251,416		6,251,416	0		310,925		0	6,562,341
May	2039	0	-102,031	6,149,385		6,149,385	0		310,925		0	6,460,310
June	2039	0	-129,825	6,019,560		6,019,560	0		310,925		0	6,330,485
July	2039	0	-287,856	5,731,704		5,731,704	0		310,925		0	6,042,629
August	2039	0	-210,867	5,520,837		5,520,837	0		310,925		0	5,831,762
September	2039	0	-363,779	5,157,058		5,157,058	0		310,925		0	5,467,983
October	2039	0	-497,583	4,659,475		4,659,475	0		310,925		0	4,970,400
November	2039	0	-291,989	4,367,486		4,367,486	0	-45,596	265,329	-45,596	4,632,815	4,632,815
December	2039	0	-109,813	4,257,673		4,257,673	0	-4,062	261,267	-49,658	4,518,940	4,518,940
January	2040	0	-201,891	4,055,782		4,055,782	0	-35,926	225,341	-85,583	4,281,124	4,281,124
February	2040	0	-116,805	3,938,977		3,938,977	0	-1,316	224,026	-86,899	4,163,003	4,163,003
March	2040	0	-103,437	3,835,540		3,835,540	0	-2,005	222,021	-88,904	4,057,561	4,057,561
April	2040	0	-167,457	3,668,083		3,668,083	0	-62,291	159,730	-151,195	3,827,813	3,827,813
May	2040	0	-59,933	3,608,150		3,608,150	0	-20,520	139,210	-171,715	3,747,360	3,747,360
June	2040	0	-198,698	3,409,453		3,409,453	0	-37,871	101,339	-209,586	3,510,792	3,510,792
July	2040	0	-58,395	3,351,058		3,351,058	0	-20,271	81,068	-229,857	3,432,126	3,432,126
August	2040	0	-231,905	3,119,154		3,119,154	0	-13,363	67,705	-243,220	3,186,858	3,186,858
September	2040	0	-217,522	2,901,632		2,901,632	0	0	67,705	-243,220	2,969,337	2,969,337
October	2040	0	-87,673	2,813,959		2,813,959	0	-2,992	64,712	-246,212	2,878,671	2,878,671
November	2040	0	-88,982	2,724,977		2,724,977	0	-3,513	61,199	-249,726	2,786,176	2,786,176
December	2040	0	-174,646	2,550,331		2,550,331	0	0	61,199	-249,726	2,611,530	2,611,530
January	2041	0	-185,981	2,364,350		2,364,350	0	0	61,199	-249,726	2,425,549	2,425,549
February	2041	0	-125,309	2,239,041		2,239,041	0	-2,697	58,503	-252,422	2,297,544	2,297,544
March	2041	0	-64,244	2,174,797		2,174,797	0	0	58,503	-252,422	2,233,300	2,233,300
April	2041	0	-216,137	1,958,661		1,958,661	0	-273	58,230	-252,695	2,016,891	2,016,891
May	2041	0	-212,483	1,746,178		1,746,178	0	-500	57,730	-253,195	1,803,908	1,803,908
June	2041	0	-453,430	1,292,748		1,292,748	0	-336	57,394	-253,531	1,350,142	1,350,142
July	2041	0	-112,152	1,180,596		1,180,596	0	-16,577	40,818	-270,107	1,221,414	1,221,414
August	2041	0	-141,750	1,038,846		1,038,846	0	-17,786	23,032	-287,893	1,061,878	1,061,878
September	2041	0	-182,701	856,145		856,145	0	-235	22,797	-288,128	878,942	878,942
October	2041	0	-193,533	662,612		662,612	0	-1,068	21,729	-289,196	684,341	684,341
November	2041	0	-182,431	480,182		480,182	0	-6,374	15,355	-295,570	495,536	495,536
December	2041	0	-125,904	354,278		354,278	0	0	15,355	-295,570	369,632	369,632
January	2042	0	-240,780	113,498		113,498	0	-844	14,511	-296,414	128,008	128,008
February	2042	0	-111,162	2,335		2,335	0	-847	13,663	-297,262	15,999	15,999
March	2042	0	-2,335	0		0	0	-13,663	0	-310,925	0	0
April	2042	0	0	0		0	0	0	0	-310,925	0	0
May	2042	0	0	0		0	0	0	0	-310,925	0	0
June	2042	0	0	0		0	0	0	0	-310,925	0	0
July	2042	0	0	0		0	0	0	0	-310,925	0	0
August	2042	0	0	0		0	0	0	0	-310,925	0	0
September	2042	0	0	0		0	0	0	0	-310,925	0	0
October	2042	0	0	0		0	0	0	0	-310,925	0	0
November	2042	0	0	0		0	0	0	0	-310,925	0	0
December	2042	0	0	0		0	0	0	0	-310,925	0	0





# Appendix C.16 Non-residential Duct Testing and Sealing Program

**Table 2. EM&V Data Incremental by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			11		11			-		-	11
2013			357		357			-		-	357
2014			1,700		1,700			60		60	1,760
2015			1,655		1,655			152		152	1,807
2016			640		640			33		20	673
2017			81		81			5		5	86

**Table 3. EM&V Data Annualized by Vintage Year**

	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			11		11			-		-	11
2013			357		357			-		-	357
2014			1,700		1,700			60		60	1,760
2015			1,655		1,655			152		152	1,807
2016			640		640			33		20	673
2017			81		81			5		5	86

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants										
	VA							NC PPI			System
2012								-			
2013								-			
2014								60			
2015								212			
2016								245			
2017								190			

# Appendix C.16 Non-residential Duct Testing and Sealing Program

**Table 2. EM&V Data Incremental by Vintage Year**

Gross Incremental Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			6,658		6,658			-		-	6,658
2013			503,567		503,567			-		-	503,567
2014			11,852,909		11,852,909			95,254		95,254	11,948,162
2015			11,114,984		11,114,984			1,659,949		1,659,949	12,774,933
2016			14,255,540		14,255,540			243,747		236,138	14,499,288
2017			4,135,501		4,135,501			156,081		156,081	4,291,582

**Table 3. EM&V Data Annualized by Vintage Year**

Gross Annualized Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			77,742		77,742			-		-	77,742
2013			1,765,683		1,765,683			-		-	1,765,683
2014			28,470,361		28,470,361			595,895		595,895	29,066,256
2015			20,488,106		20,488,106			2,400,813		2,400,813	22,888,919
2016			26,352,640		26,352,640			550,135		504,476	26,902,775
2017			4,251,334		4,251,334			184,255		184,255	4,435,589

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

Gross Energy (kWh) for PPI										
	VA							NC PPI		System
2012								-		
2013								-		
2014								95,254		
2015								2,255,843		
2016								3,240,455		
2017								3,107,029		

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2012	8	8	-	-	8	605	-	605	0.73	-	0.73					
2013	508	508	-	-	508	1,411	-	1,411	1.42	-	1.42					
2014	2,051	2,051	65	65	2,116	6,972	1,588	6,789	1.21	1.08	1.20					
2015	2,514	2,514	292	292	2,805	6,716	10,921	7,070	1.52	1.92	1.55					
2016	2,594	2,594	160	147	2,754	22,274	7,386	21,544	4.05	4.84	4.09					
2017	695	695	54	54	749	51,056	31,216	49,902	8.58	10.77	8.71					

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System					
2012	8	8	-	-	8	7,067	-	7,067	0.73	-	0.73					
2013	508	508	-	-	508	4,946	-	4,946	1.42	-	1.42					
2014	2,051	2,051	65	65	2,116	16,747	9,932	16,515	1.21	1.08	1.20					
2015	2,514	2,514	292	292	2,805	12,380	15,795	12,667	1.52	1.92	1.55					
2016	2,594	2,594	160	147	2,754	41,176	16,671	39,974	4.05	4.84	4.09					
2017	695	695	54	54	749	52,486	36,851	51,577	8.58	10.77	8.71					

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
	Gross Peak Demand (kW)										Gross kWh/Participant			Gross kW/Participant		
	VA	VA NLR	NC PPI	NC NLR	System	VA	NC	System	VA	NC	System					
2012			-	-			-			-						
2013			-	-			-			-						
2014			65	65			1,588			1.08						
2015			357	357			10,641			1.68						
2016			516	516			13,226			2.11						
2017			505	505			16,353			2.66						

# Appendix C.16 Non-residential Duct Testing and Sealing Program

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Year	Program Participants				System IRP
	VA IRP	VA NLR	NC IRP	NC NLR	
2012	11	11	-	-	11
2013	368	368	-	-	368
2014	2,068	2,068	60	60	2,128
2015	3,723	3,723	212	212	3,935
2016	4,363	4,363	245	20	4,608
2017	4,444	4,444	250	25	4,694
2018	4,444		250		4,694
2019	4,444		250		4,694
2020	4,444		250		4,694
2021	4,444		250		4,694
2022	4,444		250		4,694
2023	4,444		250		4,694
2024	4,444		250		4,694
2025	4,444		250		4,694
2026	4,444		250		4,694
2027	4,444		250		4,694
2028	4,444		250		4,694
2029	4,444		250		4,694
2030	4,444		250		4,694
2031	4,444		250		4,694
2032	4,444		250		4,694
2033	4,444		250		4,694
2034	4,444		250		4,694
2035	4,444		250		4,694
2036	4,444		250		4,694
2037	4,433		250		4,683
2038	4,076		250		4,326
2039	2,376		190		2,566
2040	721		38		759
2041	81		5		86
2042	-		-		-

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Year	Program Participants				System IRP
	VA IRP	VA NLR	NC IRP	NC NLR	
2012	11		-		11
2013	368		-		368
2014	2,068		60		2,128
2015	3,723		212		3,935
2016	4,363		245		4,608
2017	4,444		250		4,694
2018	4,444		250		4,694
2019	4,444		250		4,694
2020	4,444		250		4,694
2021	4,444		250		4,694
2022	4,444		250		4,694
2023	4,444		250		4,694
2024	4,444		250		4,694
2025	4,444		250		4,694
2026	4,444		250		4,694
2027	4,444		250		4,694
2028	4,444		250		4,694
2029	4,444		250		4,694
2030	4,444		250		4,694
2031	4,444		250		4,694
2032	4,444		250		4,694
2033	4,444		250		4,694
2034	4,444		250		4,694
2035	4,444		250		4,694
2036	4,444		250		4,694
2037	4,444		250		4,694
2038	4,444		250		4,694
2039	4,444		250		4,694
2040	4,444		250		4,694
2041	4,444		250		4,694
2042	4,444		250		4,694

# Appendix C.16 Non-residential Duct Testing and Sealing Program

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

Gross Energy (kWh)											
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			6,658		6,658			-		-	6,658
2013			581,309		581,309			-		-	581,309
2014			13,696,333		13,696,333			95,254		95,254	13,791,587
2015			41,428,770		41,428,770			2,255,843		2,255,843	43,684,613
2016			65,057,433		65,057,433			3,240,455		2,733,394	68,297,888
2017			81,290,033		81,290,033			3,702,924		660,557	84,992,957
2018			81,405,866		81,405,866			3,731,098		688,731	85,136,964
2019			81,405,866		81,405,866			3,731,098		688,731	85,136,964
2020			81,405,866		81,405,866			3,731,098		573,943	85,136,964
2021			81,405,866		81,405,866			3,731,098		-	85,136,964
2022			81,405,866		81,405,866			3,731,098		-	85,136,964
2023			81,405,866		81,405,866			3,731,098		-	85,136,964
2024			81,405,866		81,405,866			3,731,098		-	85,136,964
2025			81,405,866		81,405,866			3,731,098		-	85,136,964
2026			81,405,866		81,405,866			3,731,098		-	85,136,964
2027			81,405,866		81,405,866			3,731,098		-	85,136,964
2028			81,405,866		81,405,866			3,731,098		-	85,136,964
2029			81,405,866		81,405,866			3,731,098		-	85,136,964
2030			81,405,866		81,405,866			3,731,098		-	85,136,964
2031			81,405,866		81,405,866			3,731,098		-	85,136,964
2032			81,405,866		81,405,866			3,731,098		-	85,136,964
2033			81,405,866		81,405,866			3,731,098		-	85,136,964
2034			81,405,866		81,405,866			3,731,098		-	85,136,964
2035			81,405,866		81,405,866			3,731,098		-	85,136,964
2036			81,405,866		81,405,866			3,731,098		-	85,136,964
2037			81,399,208		81,399,208			3,731,098		-	85,130,306
2038			80,824,557		80,824,557			3,731,098		-	84,555,655
2039			67,709,533		67,709,533			3,635,844		-	71,345,377
2040			39,977,096		39,977,096			1,475,255		-	41,452,351
2041			16,348,434		16,348,434			490,643		-	16,839,076
2042			115,833		115,833			28,174		-	144,007

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

Gross Energy (kWh)										
			VA IRP					NC IRP		System IRP
2012			6,658					-		6,658
2013			587,967					-		587,967
2014			14,284,300					95,254		14,379,554
2015			55,713,070					2,351,097		58,064,167
2016			120,770,503					5,591,552		126,362,055
2017			202,060,536					9,294,477		211,355,012
2018			283,466,402					13,025,575		296,491,977
2019			364,872,268					16,756,673		381,628,941
2020			446,278,135					20,487,771		466,765,905
2021			527,684,001					24,218,869		551,902,869
2022			609,089,867					27,949,967		637,039,834
2023			690,495,733					31,681,065		722,176,798
2024			771,901,600					35,412,163		807,313,762
2025			853,307,466					39,143,261		892,450,726
2026			934,713,332					42,874,359		977,587,691
2027			1,016,119,198					46,605,457		1,062,724,655
2028			1,097,525,065					50,336,555		1,147,861,619
2029			1,178,930,931					54,067,653		1,232,998,584
2030			1,260,336,797					57,798,751		1,318,135,548
2031			1,341,742,663					61,529,849		1,403,272,512
2032			1,423,148,530					65,260,947		1,488,409,476
2033			1,504,554,396					68,992,045		1,573,546,441
2034			1,585,960,262					72,723,143		1,658,683,405
2035			1,667,366,128					76,454,241		1,743,820,369
2036			1,748,771,995					80,185,339		1,828,957,333
2037			1,830,171,203					83,916,437		1,914,087,640
2038			1,910,995,760					87,647,535		1,998,643,295
2039			1,978,705,293					91,283,379		2,069,988,672
2040			2,018,682,390					92,758,634		2,111,441,023
2041			2,035,030,824					93,249,276		2,128,280,100
2042			2,035,146,657					93,277,450		2,128,424,107

# Appendix C.16 Non-residential Duct Testing and Sealing Program

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)										IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Year	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2012	8	8	-	-	8	605	-	605	0.73	-	0.73				
2013	516	516	-	-	516	1,580	-	1,580	1.40	-	1.40				
2014	2,567	2,567	65	65	2,632	6,623	1,588	6,481	1.24	1.08	1.24				
2015	5,080	5,080	357	357	5,437	11,128	10,641	11,102	1.36	1.68	1.38				
2016	7,674	7,674	516	147	8,190	14,911	13,226	14,822	1.76	2.11	1.78				
2017	8,370	8,370	570	200	8,940	18,292	14,812	18,107	1.88	2.28	1.90				
2018	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2019	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2020	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2021	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2022	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2023	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2024	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2025	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2026	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2027	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2028	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2029	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2030	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2031	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2032	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2033	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2034	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2035	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2036	8,370	8,370	570		8,940	18,318	14,924	18,137	1.88	2.28	1.90				
2037	8,362	8,362	570		8,932	18,362	14,924	18,179	1.89	2.28	1.91				
2038	7,854	7,854	570		8,424	19,829	14,924	19,546	1.93	2.28	1.95				
2039	5,803	5,803	505		6,308	28,497	19,136	27,804	2.44	2.66	2.46				
2040	3,289	3,289	213		3,503	55,447	38,822	54,614	4.56	5.62	4.62				
2041	695	695	54		749	201,833	98,129	195,803	8.58	10.77	8.71				
2042	0	0	0		0	-	-	-	-	-	-				

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)										Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
Year	Gross Peak Demand (kW)									Gross kWh/Participant			Gross kW/Participant		
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2012	8	8	-	-	8	605	-	605	0.73	-	0.73				
2013	516	516	-	-	516	1,598	-	1,598	1.40	-	1.40				
2014	2,567	2,567	65	65	2,632	6,907	1,588	6,757	1.24	1.08	1.24				
2015	5,080	5,080	357	357	5,437	14,965	11,090	14,756	1.36	1.68	1.38				
2016	7,674	7,674	516	147	8,190	27,681	22,823	27,422	1.76	2.11	1.78				
2017	8,370	8,370	570	200	8,940	45,468	37,178	45,027	1.88	2.28	1.90				
2018	8,370	8,370	570		8,940	63,786	52,102	63,164	1.88	2.28	1.90				
2019	8,370	8,370	570		8,940	82,104	67,027	81,301	1.88	2.28	1.90				
2020	8,370	8,370	570		8,940	100,423	81,951	99,439	1.88	2.28	1.90				
2021	8,370	8,370	570		8,940	118,741	96,875	117,576	1.88	2.28	1.90				
2022	8,370	8,370	570		8,940	137,059	111,800	135,714	1.88	2.28	1.90				
2023	8,370	8,370	570		8,940	155,377	126,724	153,851	1.88	2.28	1.90				
2024	8,370	8,370	570		8,940	173,695	141,649	171,988	1.88	2.28	1.90				
2025	8,370	8,370	570		8,940	192,013	156,573	190,126	1.88	2.28	1.90				
2026	8,370	8,370	570		8,940	210,332	171,497	208,263	1.88	2.28	1.90				
2027	8,370	8,370	570		8,940	228,650	186,422	226,401	1.88	2.28	1.90				
2028	8,370	8,370	570		8,940	246,968	201,346	244,538	1.88	2.28	1.90				
2029	8,370	8,370	570		8,940	265,286	216,271	262,675	1.88	2.28	1.90				
2030	8,370	8,370	570		8,940	283,604	231,195	280,813	1.88	2.28	1.90				
2031	8,370	8,370	570		8,940	301,922	246,119	298,950	1.88	2.28	1.90				
2032	8,370	8,370	570		8,940	320,240	261,044	317,088	1.88	2.28	1.90				
2033	8,370	8,370	570		8,940	338,559	275,968	335,225	1.88	2.28	1.90				
2034	8,370	8,370	570		8,940	356,877	290,893	353,362	1.88	2.28	1.90				
2035	8,370	8,370	570		8,940	375,195	305,817	371,500	1.88	2.28	1.90				
2036	8,370	8,370	570		8,940	393,513	320,741	389,637	1.88	2.28	1.90				
2037	8,370	8,370	570		8,940	411,830	335,666	407,773	1.88	2.28	1.90				
2038	8,370	8,370	570		8,940	430,147	350,590	425,787	1.88	2.28	1.90				
2039	8,370	8,370	570		8,940	448,465	365,514	443,801	1.88	2.28	1.90				
2040	8,370	8,370	570		8,940	466,783	380,438	461,815	1.88	2.28	1.90				
2041	8,370	8,370	570		8,940	485,101	395,362	480,829	1.88	2.28	1.90				
2042	8,370	8,370	570		8,940	503,419	410,286	498,843	1.88	2.28	1.90				

# Appendix C.17 Non-residential Energy Audit Program

<b>PROGRAM:</b> Non-Residential Energy Audit
<b>DSM Phase II Program</b>
<b>Type:</b> Energy Efficiency
<b>Program Measure Life:</b> 7.0 years

Table 1		Participation											
Month	Year	Program Participants										System System Cum for IRP E+G	
		VA				NC							
		VA Monthly New [A]	VA Monthly Retired [-A retired]	VA Cum. for IRP (New + Retired) [E] = Σ[A] + Σ[-A retired]	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New [C]	NC Monthly Retired [-C retired]	NC Cum. for IRP (New + Retired) [G] = Σ[C] + Σ[-C retired]	NC Rate Reset Adj. [D]	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [H] = Σ[C] + Σ[-C retired] + D		
November	2012	0		0		0							0
December	2012	1		1		1							1
January	2013	0		1		1							1
February	2013	0		1		1							1
March	2013	0		1		1							1
April	2013	0		1		1							1
May	2013	26		27		27							27
June	2013	7		34		34							34
July	2013	2		36		36							36
August	2013	3		39		39							39
September	2013	6		45		45							45
October	2013	88		133		133							133
November	2013	72		205		205							205
December	2013	98		303		303							303
January	2014	54		357		357	0		0				357
February	2014	72		429		429	0		0				429
March	2014	31		460		460	0		0				460
April	2014	70		530		530	0		0				530
May	2014	136		666		666	0		0				666
June	2014	41		707		707	0		0				707
July	2014	52		759		759	0		0				759
August	2014	114		873		873	0		0				873
September	2014	207		1,080		1,080	0		0			0	1,080
October	2014	145		1,225		1,225	2		2			2	1,227
November	2014	174		1,399		1,399	14		16			16	1,415
December	2014	20		1,419		1,419	0		16			16	1,435
January	2015	20		1,439		1,439	0		16			16	1,455
February	2015	16		1,455		1,455	0		16			16	1,471
March	2015	7		1,462		1,462	0		16			16	1,478
April	2015	2		1,464		1,464	0		16			16	1,480
May	2015	0		1,464		1,464	0		16			16	1,480
June	2015	0		1,464		1,464	1		17			17	1,481
July	2015	17		1,481		1,481	17		34			34	1,515
August	2015	10		1,491		1,491	60		94			94	1,585
September	2015	0		1,491		1,491	0		94			94	1,585
October	2015	0		1,491		1,491	0		94			94	1,585
November	2015	0		1,491		1,491	0		94			94	1,585
December	2015	1		1,492		1,492	0		94			94	1,586
January	2016	6		1,498		1,498	0		94			94	1,592
February	2016	1		1,499		1,499	0		94			94	1,593
March	2016	0		1,499		1,499	0		94			94	1,593
April	2016	0		1,499		1,499	0		94			94	1,593
May	2016	1		1,500		1,500	0		94			94	1,594
June	2016	7		1,507		1,507	0		94			94	1,601
July	2016	0		1,507		1,507	3		97	3		97	1,604
August	2016	11		1,518		1,518	7		104	10		104	1,622
September	2016	13		1,531		1,531	1		105	11		105	1,636
October	2016	29		1,560		1,560	3		108	14		108	1,668
November	2016	34		1,594		1,594	0		108	14		14	1,702
December	2016	23		1,617		1,617	0		108			14	1,725
January	2017	13		1,630		1,630	0		108			14	1,738
February	2017	1		1,631		1,631	1		109			15	1,740
March	2017	1		1,632		1,632	1		110			16	1,742
April	2017	0		1,632		1,632	0		110			16	1,742
May	2017	0		1,632		1,632	0		110			16	1,742
June	2017	0		1,632		1,632	0		110			16	1,742
July	2017	0		1,632		1,632	0		110			16	1,742
August	2017	0		1,632		1,632	0		110			16	1,742
September	2017	0		1,632		1,632	0		110			16	1,742
October	2017	0		1,632		1,632	0		110			16	1,742
November	2017	0		1,632		1,632	0		110			16	1,742
December	2017	0		1,632		1,632	0		110			16	1,742

# Appendix C.17 Non-residential Energy Audit Program

Table 1		Energy Savings											
Month	Year	Gross kWh										System Cum for IRP	
		VA				NC				System			
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)		NC Rate Reset Adj.		NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)
November	2012	0		0		0							0
December	2012	2,953		2,953		2,953							2,953
January	2013	0		2,953		2,953							2,953
February	2013	0		2,953		2,953							2,953
March	2013	0		2,953		2,953							2,953
April	2013	0		2,953		2,953							2,953
May	2013	16,760		19,713		19,713							19,713
June	2013	2,620		22,332		22,332							22,332
July	2013	4		22,336		22,336							22,336
August	2013	222		22,559		22,559							22,559
September	2013	450		23,008		23,008							23,008
October	2013	168,393		191,401		191,401							191,401
November	2013	96,610		288,012		288,012							288,012
December	2013	89,779		377,791		377,791							377,791
January	2014	167,689		545,480		545,480	0		0		0		545,480
February	2014	162,166		707,646		707,646	0		0		0		707,646
March	2014	13,995		721,641		721,641	0		0		0		721,641
April	2014	292,920		1,014,561		1,014,561	0		0		0		1,014,561
May	2014	170,540		1,185,101		1,185,101	0		0		0		1,185,101
June	2014	85,605		1,270,706		1,270,706	0		0		0		1,270,706
July	2014	153,631		1,424,337		1,424,337	0		0		0		1,424,337
August	2014	94,986		1,519,323		1,519,323	0		0		0		1,519,323
September	2014	434,366		1,953,689		1,953,689	0		0		0		1,953,689
October	2014	141,596		2,095,284		2,095,284	5,538		5,538		5,538		2,100,822
November	2014	875,437		2,970,721		2,970,721	35,768		41,306		41,306		3,012,027
December	2014	39,424		3,010,145		3,010,145	0		41,306		41,306		3,051,451
January	2015	29,508		3,039,653		3,039,653	0		41,306		41,306		3,080,959
February	2015	21,224		3,060,877		3,060,877	0		41,306		41,306		3,102,183
March	2015	4,559		3,065,436		3,065,436	0		41,306		41,306		3,106,742
April	2015	48		3,065,484		3,065,484	0		41,306		41,306		3,106,790
May	2015	0		3,065,484		3,065,484	0		41,306		41,306		3,106,790
June	2015	0		3,065,484		3,065,484	319		41,625		41,625		3,107,109
July	2015	160		3,065,644		3,065,644	9,958		51,583		51,583		3,117,227
August	2015	109		3,065,753		3,065,753	8,508		60,091		60,091		3,125,844
September	2015	0		3,065,753		3,065,753	0		60,091		60,091		3,125,844
October	2015	0		3,065,753		3,065,753	0		60,091		60,091		3,125,844
November	2015	0		3,065,753		3,065,753	0		60,091		60,091		3,125,844
December	2015	9		3,065,762		3,065,762	0		60,091		60,091		3,125,853
January	2016	-828		3,064,935		3,064,935	0		60,091		60,091		3,125,025
February	2016	14		3,064,949		3,064,949	0		60,091		60,091		3,125,039
March	2016	0		3,064,949		3,064,949	0		60,091		60,091		3,125,039
April	2016	0		3,064,949		3,064,949	0		60,091		60,091		3,125,039
May	2016	3,929		3,068,878		3,068,878	0		60,091		60,091		3,128,969
June	2016	205,161		3,274,039		3,274,039	0		60,091		60,091		3,334,130
July	2016	10,041		3,284,080		3,284,080	0		60,091	0	60,091		3,344,171
August	2016	43,429		3,327,510		3,327,510	172		60,262	172	60,262		3,387,772
September	2016	40,230		3,367,739		3,367,739	19		60,282	191	60,282		3,428,021
October	2016	43,801		3,411,540		3,411,540	12,443		72,725	12,634	72,725		3,484,265
November	2016	121,477		3,533,018		3,533,018	0		72,725	12,634	12,634		3,605,743
December	2016	96,534		3,629,551		3,629,551	9,935		82,660		22,569		3,712,211
January	2017	12,653		3,642,205		3,642,205	30,409		113,068		52,978		3,755,273
February	2017	2,799		3,645,004		3,645,004	28,261		141,329		81,238		3,786,333
March	2017	927		3,645,930		3,645,930	10,151		151,480		91,389		3,797,410
April	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
May	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
June	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
July	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
August	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
September	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
October	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
November	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410
December	2017	0		3,645,930		3,645,930	0		151,480		91,389		3,797,410





# Appendix C.17 Non-residential Energy Audit Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	Revenue (NLR) (New + Retired + [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +	
January	2018	0		1,632		1,632	0		110		16	1,742
February	2018	0		1,632		1,632	0		110		16	1,742
March	2018	0		1,632		1,632	0		110		16	1,742
April	2018	0		1,632		1,632	0		110		16	1,742
May	2018	0		1,632		1,632	0		110		16	1,742
June	2018	0		1,632		1,632	0		110		16	1,742
July	2018	0		1,632		1,632	0		110	0	16	1,742
August	2018	0		1,632		1,632	0		110	0	16	1,742
September	2018	0		1,632		1,632	0		110	0	16	1,742
October	2018	0		1,632		1,632	0		110	0	16	1,742
November	2018	0		1,632		1,632	0		110	0	0	1,742
December	2018	0		1,632		1,632	0		110		0	1,742
January	2019	0		1,632		1,632	0		110		0	1,742
February	2019	0		1,632		1,632	0		110		0	1,742
March	2019	0		1,632		1,632	0		110		0	1,742
April	2019	0		1,632		1,632	0		110		0	1,742
May	2019	0		1,632		1,632	0		110		0	1,742
June	2019	0		1,632		1,632	0		110		0	1,742
July	2019	0		1,632		1,632	0		110		0	1,742
August	2019	0		1,632		1,632	0		110		0	1,742
September	2019	0		1,632		1,632	0		110		0	1,742
October	2019	0		1,632		1,632	0		110		0	1,742
November	2019	0		1,632		1,632	0		110		0	1,742
December	2019	0	-1	1,631		1,631	0		110		0	1,741
January	2020	0	0	1,631		1,631	0		110		0	1,741
February	2020	0	0	1,631		1,631	0		110		0	1,741
March	2020	0	0	1,631		1,631	0		110		0	1,741
April	2020	0	0	1,631		1,631	0		110		0	1,741
May	2020	0	-26	1,605		1,605	0		110		0	1,715
June	2020	0	-7	1,598		1,598	0		110		0	1,708
July	2020	0	-2	1,596		1,596	0		110		0	1,706
August	2020	0	-3	1,593		1,593	0		110		0	1,703
September	2020	0	-6	1,587		1,587	0		110		0	1,697
October	2020	0	-88	1,499		1,499	0		110		0	1,609
November	2020	0	-72	1,427		1,427	0		110		0	1,537
December	2020	0	-98	1,329		1,329	0		110		0	1,439
January	2021	0	-54	1,275		1,275	0		110		0	1,385
February	2021	0	-72	1,203		1,203	0		110		0	1,313
March	2021	0	-31	1,172		1,172	0		110		0	1,282
April	2021	0	-70	1,102		1,102	0		110		0	1,212
May	2021	0	-136	966		966	0		110		0	1,076
June	2021	0	-41	925		925	0		110		0	1,035
July	2021	0	-52	873		873	0		110		0	983
August	2021	0	-114	759		759	0		110		0	869
September	2021	0	-207	552		552	0		110		0	662
October	2021	0	-145	407		407	0	-2	108		-2	515
November	2021	0	-174	233		233	0	-14	94		-16	327
December	2021	0	-20	213		213	0	0	94		-16	307
January	2022	0	-20	193		193	0	0	94		-16	287
February	2022	0	-16	177		177	0	0	94		-16	271
March	2022	0	-7	170		170	0	0	94		-16	264
April	2022	0	-2	168		168	0	0	94		-16	262
May	2022	0	0	168		168	0	0	94		-16	262
June	2022	0	0	168		168	0	-1	93		-17	261
July	2022	0	-17	151		151	0	-17	76		-34	227
August	2022	0	-10	141		141	0	-60	16		-94	157
September	2022	0	0	141		141	0	0	16		-94	157
October	2022	0	0	141		141	0	0	16		-94	157
November	2022	0	0	141		141	0	0	16		-94	157
December	2022	0	-1	140		140	0	0	16		-94	156

# Appendix C.17 Non-residential Energy Audit Program

Table 1		Energy Savings											
Month	Year	Gross kWh										System Cum for IRP	
		VA				NC							System
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	Revenue (NLR) (New + Retired +	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	Revenue (NLR) (New + Retired +		
January	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
February	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
March	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
April	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
May	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
June	2018	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
July	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
August	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
September	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
October	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
November	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
December	2018	0		3,645,930		3,645,930	0		151,480	0	91,389	3,797,410	
January	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
February	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
March	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
April	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
May	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
June	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
July	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
August	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
September	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
October	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
November	2019	0		3,645,930		3,645,930	0		151,480		91,389	3,797,410	
December	2019	0	-2,953	3,642,978		3,642,978	0		151,480		91,389	3,794,457	
January	2020	0	0	3,642,978		3,642,978	0		151,480		91,389	3,794,457	
February	2020	0	0	3,642,978		3,642,978	0		151,480		91,389	3,794,457	
March	2020	0	0	3,642,978		3,642,978	0		151,480		91,389	3,794,457	
April	2020	0	0	3,642,978		3,642,978	0		151,480		91,389	3,794,457	
May	2020	0	-16,760	3,626,218		3,626,218	0		151,480		91,389	3,777,698	
June	2020	0	-2,620	3,623,598		3,623,598	0		151,480		91,389	3,775,078	
July	2020	0	-4	3,623,594		3,623,594	0		151,480		91,389	3,775,074	
August	2020	0	-222	3,623,372		3,623,372	0		151,480		91,389	3,774,852	
September	2020	0	-450	3,622,922		3,622,922	0		151,480		91,389	3,774,402	
October	2020	0	-168,393	3,454,529		3,454,529	0		151,480		91,389	3,606,009	
November	2020	0	-96,610	3,357,919		3,357,919	0		151,480		91,389	3,509,398	
December	2020	0	-89,779	3,268,139		3,268,139	0		151,480		91,389	3,419,619	
January	2021	0	-167,689	3,100,451		3,100,451	0		151,480		91,389	3,251,930	
February	2021	0	-162,166	2,938,284		2,938,284	0		151,480		91,389	3,089,764	
March	2021	0	-13,995	2,924,289		2,924,289	0		151,480		91,389	3,075,769	
April	2021	0	-292,920	2,631,369		2,631,369	0		151,480		91,389	2,782,849	
May	2021	0	-170,540	2,460,829		2,460,829	0		151,480		91,389	2,612,309	
June	2021	0	-85,605	2,375,224		2,375,224	0		151,480		91,389	2,526,704	
July	2021	0	-153,631	2,221,594		2,221,594	0		151,480		91,389	2,373,073	
August	2021	0	-94,986	2,126,608		2,126,608	0		151,480		91,389	2,278,087	
September	2021	0	-434,366	1,692,242		1,692,242	0		151,480		91,389	1,843,721	
October	2021	0	-141,596	1,550,646		1,550,646	0	-5,538	145,942		-5,538	1,696,588	
November	2021	0	-875,437	675,209		675,209	0	-35,768	110,174		-41,306	785,383	
December	2021	0	-39,424	635,785		635,785	0	0	110,174		-41,306	745,959	
January	2022	0	-29,508	606,277		606,277	0	0	110,174		-41,306	716,451	
February	2022	0	-21,224	585,053		585,053	0	0	110,174		-41,306	695,227	
March	2022	0	-4,559	580,494		580,494	0	0	110,174		-41,306	690,668	
April	2022	0	-48	580,446		580,446	0	0	110,174		-41,306	690,620	
May	2022	0	0	580,446		580,446	0	0	110,174		-41,306	690,620	
June	2022	0	0	580,446		580,446	0	-319	109,855		-41,625	690,301	
July	2022	0	-160	580,286		580,286	0	-9,958	99,897		-51,583	680,183	
August	2022	0	-109	580,177		580,177	0	-8,508	91,389		-60,091	671,566	
September	2022	0	0	580,177		580,177	0	0	91,389		-60,091	671,566	
October	2022	0	0	580,177		580,177	0	0	91,389		-60,091	671,566	
November	2022	0	0	580,177		580,177	0	0	91,389		-60,091	671,566	
December	2022	0	-9	580,168		580,168	0	0	91,389		-60,091	671,557	



# Appendix C.17 Non-residential Energy Audit Program

Table 1		Participation										
Month	Year	Program Participants										System
		VA					NC					
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj. [B]	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.) [F] = Σ[A] + Σ[-A retired] + B	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	
January	2023	0	-6	134		134	0	0	16		-94	150
February	2023	0	-1	133		133	0	0	16		-94	149
March	2023	0	0	133		133	0	0	16		-94	149
April	2023	0	0	133		133	0	0	16		-94	149
May	2023	0	-1	132		132	0	0	16		-94	148
June	2023	0	-7	125		125	0	0	16		-94	141
July	2023	0	0	125		125	0	-3	13		-97	138
August	2023	0	-11	114		114	0	-7	6		-104	120
September	2023	0	-13	101		101	0	-1	5		-105	106
October	2023	0	-29	72		72	0	-3	2		-108	74
November	2023	0	-34	38		38	0	0	2		-108	40
December	2023	0	-23	15		15	0	0	2		-108	17
January	2024	0	-13	2		2	0	0	2		-108	4
February	2024	0	-1	1		1	0	-1	1		-109	2
March	2024	0	-1	0		0	0	-1	0		-110	0
April	2024	0	0	0		0	0	0	0		-110	0
May	2024	0	0	0		0	0	0	0		-110	0
June	2024	0	0	0		0	0	0	0		-110	0
July	2024	0	0	0		0	0	0	0		-110	0
August	2024	0	0	0		0	0	0	0		-110	0
September	2024	0	0	0		0	0	0	0		-110	0
October	2024	0	0	0		0	0	0	0		-110	0
November	2024	0	0	0		0	0	0	0		-110	0
December	2024	0	0	0		0	0	0	0		-110	0

Table 2. EM&V Data Incremental by Vintage Year											
	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			1		1			-		-	1
2013			302		302			-		-	302
2014			1,116		1,116			16		16	1,132
2015			73		73			78		78	151
2016			125		125			14		14	139
2017			15		15			2		2	17

Table 3. EM&V Data Annualized by Vintage Year											
	Program Participants										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			1		1			-		-	1
2013			302		302			-		-	302
2014			1,116		1,116			16		16	1,132
2015			73		73			78		78	151
2016			125		125			14		14	139
2017			15		15			2		2	17

# Appendix C.17 Non-residential Energy Audit Program

Table 1		Energy Savings										
Month	Year	Gross kWh										
		VA				NC				System		
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New + Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP
January	2023	0	828	580,996		580,996	0	0	91,389		-60,091	672,385
February	2023	0	-14	580,982		580,982	0	0	91,389		-60,091	672,371
March	2023	0	0	580,982		580,982	0	0	91,389		-60,091	672,371
April	2023	0	0	580,982		580,982	0	0	91,389		-60,091	672,371
May	2023	0	-3,929	577,052		577,052	0	0	91,389		-60,091	668,441
June	2023	0	-205,161	371,891		371,891	0	0	91,389		-60,091	463,280
July	2023	0	-10,041	361,850		361,850	0	0	91,389		-60,091	453,239
August	2023	0	-43,429	318,421		318,421	0	-172	91,218		-60,262	409,638
September	2023	0	-40,230	278,191		278,191	0	-19	91,198		-60,282	369,389
October	2023	0	-43,801	234,390		234,390	0	-12,443	78,755		-72,725	313,145
November	2023	0	-121,477	112,913		112,913	0	0	78,755		-72,725	191,668
December	2023	0	-96,534	16,379		16,379	0	-9,935	68,820		-82,660	85,199
January	2024	0	-12,653	3,726		3,726	0	-30,409	38,412		-113,068	42,137
February	2024	0	-2,799	927		927	0	-28,261	10,151		-141,329	11,078
March	2024	0	-927	0		0	0	-10,151	0		-151,480	0
April	2024	0	0	0		0	0	0	0		-151,480	0
May	2024	0	0	0		0	0	0	0		-151,480	0
June	2024	0	0	0		0	0	0	0		-151,480	0
July	2024	0	0	0		0	0	0	0		-151,480	0
August	2024	0	0	0		0	0	0	0		-151,480	0
September	2024	0	0	0		0	0	0	0		-151,480	0
October	2024	0	0	0		0	0	0	0		-151,480	0
November	2024	0	0	0		0	0	0	0		-151,480	0
December	2024	0	0	0		0	0	0	0		-151,480	0

Table 2. EM&V Data Incremental by Vintage Year									
	Gross Incremental Energy (kWh)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	2,953	2,953	-	-	2,953				
2013	943,530	943,530	-	-	943,530				
2014	13,885,142	13,885,142	88,149	88,149	13,973,291				
2015	635,097	635,097	104,520	104,520	739,618				
2016	2,366,988	2,366,988	48,200	48,200	2,415,189				
2017	191,896	191,896	777,278	777,278	969,174				

Table 3. EM&V Data Annualized by Vintage Year									
	Gross Annualized Energy (kWh/year)								
	VA IRP	VA NLR	NC IRP	NC NLR	System IRP				
2012	35,433	35,433	-	-	35,433				
2013	4,498,061	4,498,061	-	-	4,498,061				
2014	31,588,249	31,588,249	495,669	495,669	32,083,917				
2015	667,407	667,407	225,418	225,418	892,825				
2016	6,765,468	6,765,468	270,829	270,829	7,036,296				
2017	196,549	196,549	825,840	825,840	1,022,389				

# Appendix C.17 Non-residential Energy Audit Program

Table 1		Capacity Savings										Energy Savings / Participant			Capacity Savings / Participant			
Month	Year	Gross kW										Gross kWh/Participant for IRP			Gross kW/Participant for IRP			
		VA					NC					System			VA	NC	System	
		VA Monthly New	VA Monthly Retired	VA Cum. for IRP (New+Retired)	VA Rate Reset Adj.	VA Cum. for Net Lost Revenue (NLR)	NC Monthly New	NC Monthly Retired	NC Cum. for IRP (New + Retired)	NC Rate Reset Adj.	NC Cum. for Net Lost Revenue (NLR) (New + Retired + Rate Reset Adj.)	System Cum for IRP	VA	NC	System	VA	NC	System
January	2023	0	0	789		789	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
February	2023	0	0	789		789	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
March	2023	0	0	789		789	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
April	2023	0	0	789		789	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
May	2023	0	-5	784		784	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
June	2023	0	-278	506		506	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
July	2023	0	-14	493		493	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
August	2023	0	-59	434		434	0	0	178		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
September	2023	0	-54	380		380	0	0	177		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
October	2023	0	-320	320		320	0	-17	161		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
November	2023	0	-165	155		155	0	0	161		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
December	2023	0	-131	24		24	0	-13	147		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
January	2024	0	-17	7		7	0	-65	82		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
February	2024	0	-6	1		1	0	-61	22		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
March	2024	0	-1	0		0	0	-22	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
April	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
May	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
June	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
July	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
August	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
September	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
October	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
November	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94
December	2024	0	0	0		0	0	0	0		109	3,382	1,998	1,050	1,939	1.96	1.68	1.94

Table 2. EM&V Data Incremental by Vintage Year											Incremental Energy Savings/Participant			Incremental Capacity Savings/Participant		
Gross Peak Demand (kW)											kWh/Parti			kW/Partic		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2012		10	10	-	-	10	2,953	-	2,953	10.05	-	10.05				
2013		956	956	-	-	956	3,124	-	3,124	3.17	-	3.17				
2014		2,104	2,104	57	57	2,161	12,442	5,509	12,344	1.89	3.55	1.91				
2015		9	9	30	30	38	8,700	1,340	4,898	0.12	0.38	0.25				
2016		765	765	31	31	795	18,936	3,443	17,375	6.12	2.18	5.72				
2017		24	24	147	147	172	12,793	388,639	57,010	1.63	73.60	10.10				

Table 3. EM&V Data Annualized by Vintage Year											Annualized Energy Savings/Participant			Annualized Capacity Savings/Participant		
Gross Peak Demand (kW)											Gross kWh/Participant for IRP			Gross kW/Participant for IRP		
		VA IRP	VA NLR	NC IRP	NC NLR	System IRP	VA	NC	System	VA	NC	System				
2012		10	10	-	-	10	35,433	-	35,433	10.05	-	10.05				
2013		956	956	-	-	956	14,894	-	14,894	3.17	-	3.17				
2014		2,104	2,104	57	57	2,161	28,305	30,979	28,343	1.89	3.55	1.91				
2015		9	9	30	30	38	9,143	2,890	5,913	0.12	0.38	0.25				
2016		765	765	31	31	795	54,124	19,345	50,621	6.12	2.18	5.72				
2017		24	24	147	147	172	13,103	412,920	60,141	1.63	73.60	10.10				

# Appendix C.17 Non-residential Energy Audit Program

**Table 4. EM&V Data Accumulated through Vintage Year (for PPI)**

	Program Participants							NC PPI	System
	VA								
2012							-		
2013							-		
2014							16		
2015							94		
2016							108		
2017							94		

**Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)**

	Program Participants							NC IRP	NC NLR	System IRP
	VA IRP	VA NLR								
2012	1	1					-	-	1	
2013	303	303					-	-	303	
2014	1,419	1,419					16	16	1,435	
2015	1,492	1,492					94	94	1,586	
2016	1,617	1,617					108	14	1,725	
2017	1,632	1,632					110	16	1,742	
2018	1,632						110		1,742	
2019	1,631						110		1,741	
2020	1,329						110		1,439	
2021	213						94		307	
2022	140						16		156	
2023	15						2		17	
2024	-						-		-	

**Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)**

	Program Participants							NC IRP	System IRP
	VA IRP								
2012	1						-	1	
2013	303						-	303	
2014	1,419						16	1,435	
2015	1,492						94	1,586	
2016	1,617						108	1,725	
2017	1,632						110	1,742	
2018	1,632						110	1,742	
2019	1,632						110	1,742	
2020	1,632						110	1,742	
2021	1,632						110	1,742	
2022	1,632						110	1,742	
2023	1,632						110	1,742	
2024	1,632						110	1,742	



## Appendix C.17 Non-residential Energy Audit Program

Table 4. EM&V Data Accumulated through Vintage Year (for PPI)										
	Gross Energy (kWh) for PPI									
	VA							NC PPI		System
2012								-		
2013								-		
2014								88,149		
2015								600,189		
2016								769,288		
2017								1,273,525		

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											
	Gross Energy (kWh)										
			VA IRP		VA NLR			NC IRP		NC NLR	System IRP
2012			2,953		2,953			-		-	2,953
2013			978,963		978,963			-		-	978,963
2014			18,418,635		18,418,635			88,149		88,149	18,506,784
2015			36,756,839		36,756,839			600,189		600,189	37,357,028
2016			39,156,137		39,156,137			769,288		649,106	39,925,425
2017			43,746,512		43,746,512			1,769,194		1,048,107	45,515,707
2018			43,751,165		43,751,165			1,817,756		913,891	45,568,922
2019			43,748,212		43,748,212			1,817,756		-	45,565,969
2020			42,772,202		42,772,202			1,817,756		-	44,589,959
2021			25,332,530		25,332,530			1,729,607		-	27,062,137
2022			6,994,326		6,994,326			1,217,567		-	8,211,893
2023			4,595,028		4,595,028			1,048,469		-	5,643,497
2024			4,653		4,653			48,562		-	53,215

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)										
	Gross Energy (kWh)									
			VA IRP					NC IRP		System IRP
2012			2,953					-		2,953
2013			981,916					-		981,916
2014			19,400,551					88,149		19,488,700
2015			56,157,390					688,339		56,845,728
2016			95,313,527					1,457,626		96,771,153
2017			139,060,039					3,226,820		142,286,859
2018			182,811,204					5,044,577		187,855,781
2019			226,559,417					6,862,333		233,421,750
2020			269,331,619					8,680,090		278,011,708
2021			294,664,149					10,409,697		305,073,846
2022			301,658,475					11,627,264		313,285,739
2023			306,253,503					12,675,733		318,929,236
2024			306,258,156					12,724,295		318,982,451

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Table 4. EM&V Data Accumulated through Vintage Year (for PPI)											PPI Energy Savings/Participant			PPI Capacity Savings/Participant		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
	VA						NC PPI			System	VA	NC	System	VA	NC	System
2012							-					-			-	
2013							-					-			-	
2014							57					5,509			3.55	
2015							87					6,385			0.92	
2016							117					7,123			1.09	
2017							208					13,548			2.21	

Table 5. EM&V Data Accumulated through Vintage Year (for IRP and NLR)											IRP Energy Savings/Participant			IRP Capacity Savings/Participant		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA IRP		VA NLR			NC IRP		NC NLR	System IRP	VA	NC	System	VA	NC	System
2012		10		10			-		-	10	2,953	-	2,953	10.05	-	10.05
2013		966		966			-		-	966	3,231	-	3,231	3.19	-	3.19
2014		3,070		3,070			57		57	3,127	12,980	5,509	12,897	2.16	3.55	2.18
2015		3,079		3,079			87		87	3,165	24,636	6,385	23,554	2.06	0.92	2.00
2016		3,843		3,843			117		31	3,961	24,215	7,123	23,145	2.38	1.09	2.30
2017		3,868		3,868			264		178	4,132	26,805	16,084	26,128	2.37	2.40	2.37
2018		3,868					264			4,132	26,808	16,525	26,159	2.37	2.40	2.37
2019		3,858					264			4,122	26,823	16,525	26,172	2.37	2.40	2.37
2020		2,901					264			3,166	32,184	16,525	30,987	2.18	2.40	2.20
2021		798					208			1,005	118,932	18,400	88,150	3.75	2.21	3.27
2022		789					178			967	49,959	76,098	52,640	5.64	11.11	6.20
2023		24					147			172	306,335	524,234	331,970	1.63	73.60	10.10
2024		-					-			-	-	-	-	-	-	-

Table 6. Cumulative EM&V Data through Vintage Year (Lifetime)											Lifetime Energy Savings/Participant			Lifetime Capacity Savings/Participant		
Gross Peak Demand (kW)											Gross kWh/Participant			Gross kW/Participant		
		VA IRP					NC IRP			System IRP	VA	NC	System	VA	NC	System
2012		10					-			10	2,953	-	2,953	10.05	-	10.05
2013		966					-			966	3,241	-	3,241	3.19	-	3.19
2014		3,070					57			3,127	13,672	5,509	13,581	2.16	3.55	2.18
2015		3,079					87			3,165	37,639	7,323	35,842	2.06	0.92	2.00
2016		3,843					117			3,961	58,945	13,497	56,099	2.38	1.09	2.30
2017		3,868					264			4,132	85,208	29,335	81,680	2.37	2.40	2.37
2018		3,868					264			4,132	112,017	45,860	107,839	2.37	2.40	2.37
2019		3,868					264			4,132	138,823	62,385	133,996	2.37	2.40	2.37
2020		3,868					264			4,132	165,032	78,910	159,593	2.37	2.40	2.37
2021		3,868					264			4,132	180,554	94,634	175,128	2.37	2.40	2.37
2022		3,868					264			4,132	184,840	105,702	179,843	2.37	2.40	2.37
2023		3,868					264			4,132	187,655	115,234	183,082	2.37	2.40	2.37
2024		3,868					264			4,132	187,658	115,675	183,113	2.37	2.40	2.37