OFFICIAL EXHIBITS

IURC
PETITIONER'S
EXHIBIT NO. 5
4-13-17 AT
DATE REPORTER

Indiana Michigan Power Company - Indiana
DSM Program Costs, Indirect Program Costs, Net Lost Revenue, and Shared Savings
Forecast Period Jan 1, 2017 through December 31, 2019
3 Year DSM/EE Program Cost Rider Rate Design

Program Description	Total 3-year Program Costs	ALL OTHER CUSTOMERS RS	GS*	LGS	IP/IRP	MS	WSS	IS	EHG	SL	JULY 1, 2014 OPT OUT CUSTOMERS GS*	IP/IRP	WSS	JANUARY 1, 2015 OPT OUT CUSTOMERS GS*	LGS	IP/IRP	MS	WSS	JANUARY 1, 2016 OPT OUT CUSTOMERS GS*	JANUARY 1, 2016 OPT IN CUSTOMERS GS*	IP/IRP
Section 1 - DSM/EE Program Costs:																					
	Exhibit JCW-2																				
Home Energy Products	$4,882,804	$4,882,804																			
Income Qualified Weatherproofing	$1,713,117	$1,713,117																			
Schools Energy Education	$1,987,062	$1,987,062																			
Home Appliance Recycling	$1,784,969	$1,784,969																			
Home New Construction	$1,466,093	$1,466,093																			
Home Weatherproofing	$1,554,429	$1,554,429																			
Home Energy Engagement	$6,798,120	$6,798,120																			
Home Energy Management	$6,232,009	$6,232,009																			
Work Energy Management	$4,068,667		$3,722,019	$186,246	$16,776	$24,624	$32,306	$5,673	$10,782	$69,961										$140	$140
Work Prescriptive Rebates	$8,274,562		$7,569,575	$378,774	$34,117	$50,079	$65,701	$11,537	$21,927	$142,282										$285	$285
Work Custom Rebates	$10,143,256		$9,279,057	$464,315	$41,821	$61,389	$80,539	$14,143	$26,879	$174,415										$349	$349
Work Direct Install	$1,249,467		$1,143,013	$57,195	$5,152	$7,562	$9,921	$1,742	$3,311	$21,485										$43	$43
Public Efficient Streetlighting	$5,617,964	$4,910,980	$646,749	$32,363	$2,915	$4,279	$5,614	$986	$1,873	$12,157										$24	$24
Total Direct Program Costs	$55,772,519	$31,329,583	$22,360,413	$1,118,893	$100,781	$147,933	$194,081	$34,081	$64,772	$420,300	$0	$0	$0	$0	$0	$0	$0	$0	$0	$841	$841
Indirect Program Costs:																					
Total Indirect Program Costs	$4,135,000	$2,356,950	$1,626,561	$81,392	$7,331	$10,761	$14,118	$2,479	$4,712	$30,574	$0	$0	$0	$0	$0	$0	$0	$0	$0	$61	$61
EECO Program Costs:																					
Residential EECO*	$4,519,613	$4,519,613																			
C&I EECO*	$616,311		$563,385	$28,191	$2,539	$3,727	$4,890	$859	$1,632	$10,590	$106	$95	$11	$106	$11	$74	$21	$21	$11	$21	$21
Total EECO Program Costs	$5,135,924	$4,519,613	$563,385	$28,191	$2,539	$3,727	$4,890	$859	$1,632	$10,590	$106	$95	$11	$106	$11	$74	$21	$21	$11	$21	$21
	$0.12000																				
Total PY 8 Direct, Indirect & EECO Program Costs	$65,043,443	$38,206,146	$24,550,359	$1,228,476	$110,651	$162,421	$213,089	$37,419	$71,116	$461,464	$106	$95	$11	$106	$11	$74	$21	$21	$11	$923	$923
Section 2 - Net Lost Revenues:																					
	Exhibits JCW-9, 10 & 11																				
Residential	$30,794,953	$30,794,953																			
C&I																					
EECO	$326,414		$298,382	$14,931	$1,345	$1,974	$2,590	$455	$864	$5,609	$56	$51	$6	$56	$6	$39	$11	$11	$6	$11	$11
Pre-Opt Out Measures - July 2014 Opt Out	$29,149,997		$26,646,705	$1,333,375	$120,100	$176,291	$231,283	$40,614	$77,187	$500,867	$5,016	$4,514	$502	$5,016	$502	$3,511	$1,003	$1,003	$502	$1,003	$1,003
Pre-Opt Out Measures - Jan. 2015 Opt Out	$35,054,693		$32,055,358	$1,604,019	$144,478	$212,074	$278,228	$48,858	$92,854	$602,532				$6,034	$603	$4,224	$1,207	$1,207	$603	$1,207	$1,207
Pre-Opt Out Measures - Jan. 2016 Opt Out	$45,029,305		$41,192,128	$2,061,215	$185,658	$272,521	$357,532	$62,783	$119,321	$774,272									$775	$1,550	$1,550
Non-Opt Out Customer Portion	-$40,535,442		-$37,081,846	-$1,855,540	-$167,133	-$245,328	-$321,856	-$56,519	-$107,415	-$697,013										-$1,396	-$1,396
Total Net Lost Revenues	$99,819,920	$30,794,953	$63,110,727	$3,158,000	$284,448	$417,532	$547,777	$96,191	$182,811	$1,186,267	$5,072	$4,565	$508	$11,106	$1,111	$7,774	$2,221	$2,221	$1,886	$2,375	$2,375
Section 3 - Shared Savings:																					
	Exhibit JCW-12, 13 & 14																				
Residential	$3,869,771	$3,869,771																			
C&I, Non Opt Out Customers	$2,983,571		$2,729,372	$136,575	$12,302	$18,057	$23,690	$4,160	$7,906	$51,303										$103	$103
Total Shared Savings	$6,853,342	$3,869,771	$2,729,372	$136,575	$12,302	$18,057	$23,690	$4,160	$7,906	$51,303	$0	$0	$0	$0	$0	$0	$0	$0	$0	$103	$103
Total 3 Year DSM Cost	$171,716,705	$72,870,870	$90,390,458	$4,523,051	$407,401	$598,010	$784,556	$137,770	$261,833	$1,699,034	$5,178	$4,660	$519	$11,212	$1,122	$7,848	$2,242	$2,242	$1,897	$3,401	$3,401
Revenue Tax Rate	1.769%																				
Gross Revenue Conversion Factor	1.01801																				
Total DSM Revenue Requirement	$174,808,722	$74,183,019	$92,018,075	$4,604,495	$414,737	$608,778	$798,683	$140,252	$266,548	$1,729,628	$5,271	$4,744	$528	$11,414	$1,142	$7,989	$2,282	$2,282	$1,931	$3,462	$3,462

Residential Customers	$74,183,019
C&I Customers	$100,625,703
Total DSM Costs	$174,808,722

Rate Design:	Total	ALL OTHER CUSTOMERS RS	GS*	LGS	IP/IRP	MS	WSS	IS	EHG	SL	JULY 1, 2014 OPT OUT CUSTOMERS GS*	IP/IRP	WSS	JANUARY 1, 2015 OPT OUT CUSTOMERS GS*	LGS	IP/IRP	MS	WSS	JANUARY 1, 2016 OPT OUT CUSTOMERS GS*	JANUARY 1, 2016 OPT IN CUSTOMERS GS*	IP/IRP
KWH (excluding opt-out customer kWh)	38,035,852,606	12,227,357,698	6,370,055,185	6,055,545,237	10,291,741,142	96,720,270	355,003,057	2,282,155	18,297,424	185,459,968	20,247,481	2,113,033,041	6,029,162	7,414,750	4,457,254	227,429,016	355,806	54,423,960	6,084,922	50,588	196,208,609
Rider Factor ($/kWh)		$0.006067	$0.014445	$0.000760	$0.000040	$0.006294	$0.002250	$0.061456	$0.014568	$0.009326	$0.000260	$0.000002	$0.000088	$0.001539	$0.000256	$0.000035	$0.006414	$0.000042	$0.000317	$0.068435	$0.000018
Proposed Rider Factor ($/kWh)		**$0.006067**	**$0.014445**	**$0.000760**	**$0.000040**	**$0.006294**	**$0.002250**	**$0.061456**	**$0.014568**	**$0.009326**	**$0.000260**	**$0.000002**	**$0.000088**	**$0.001539**	**$0.000256**	**$0.000035**	**$0.006414**	**$0.000042**	**$0.000317**	**$0.068435**	**$0.000018**
Revenue Verification	$174,791,735	$74,183,379	$92,015,447	$4,602,214	$411,670	$608,757	$798,757	$140,252	$266,557	$1,729,600	$5,264	$4,226	$531	$11,411	$1,141	$7,960	$2,282	$2,286	$1,929	$3,462	$3,532
Revenue Verification Difference	(8,132)	360	(2,628)	(2,281)	(3,067)	(21)	74	0	9	(28)	(7)	(518)	3	(3)	(1)	(29)	0	4	(2)	(0)	70

Allocation Basis (Applicable Annual Customer Count)	Total	ALL OTHER CUSTOMERS RS	GS*	LGS	IP/IRP	MS	WSS	IS	EHG	SL	JULY 1, 2014 OPT OUT CUSTOMERS GS*	IP/IRP	WSS	JANUARY 1, 2015 OPT OUT CUSTOMERS GS*	LGS	IP/IRP	MS	WSS	JANUARY 1, 2016 OPT OUT CUSTOMERS GS*	JANUARY 1, 2016 OPT IN CUSTOMERS GS*	IP/IRP
Residential	14,522,449	14,522,449																			
Commercial & Industrial (C&I)	2,092,197		1,912,527	95,701	8,620	12,653	16,600	2,915	5,540	35,949	360	324	36	360	36	252	72	72	36	72	72
Total:	16,614,646								Subtotal C&I	2,090,505	June 1, 2014 Opt Out		720	November 15, 2014 Opt Out				792	36		144

* GS excludes Non-Metered Customers

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Line No.	Tariff	Demand	Metered Energy	Current Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total
	RS				0.08634				-0.001427
1		--	100	$7.30	$8.63			$15.93	-$0.14
2		--	250	$7.30	$21.59			$28.89	-$0.36
3		--	500	$7.30	$43.17			$50.47	-$0.71
4		--	1,000	$7.30	$86.34			$93.64	-$1.43
5		--	2,000	$7.30	$172.68			$179.98	-$2.85
6		--	4,000	$7.30	$345.36			$352.66	-$5.71
	RS-OPES				0.14924	0.02874			
7	On-Peak=20%	--	100	$8.50	$2.98	$2.30		$13.78	-$0.14
8	Off-Peak=80%	--	250	$8.50	$7.46	$5.75		$21.71	-$0.36
9		--	500	$8.50	$14.92	$11.50		$34.92	-$0.71
10		--	1,000	$8.50	$29.85	$22.99		$61.34	-$1.43
11		--	2,000	$8.50	$59.70	$45.98		$114.18	-$2.85
12		--	4,000	$8.50	$119.39	$91.97		$219.86	-$5.71
	RS-TOD				0.14924	0.02874			
13	On-Peak 30%	--	500	$8.50	$22.39	$10.06		$40.95	-$0.71
14	Off-Peak 70%	--	1,000	$8.50	$44.77	$20.12		$73.39	-$1.43
15		--	2,000	$8.50	$89.54	$40.24		$138.28	-$2.85
16		--	3,000	$8.50	$134.32	$60.35		$203.17	-$4.28
17		--	4,000	$8.50	$179.09	$80.47		$268.06	-$5.71
18		--	5,000	$8.50	$223.86	$100.59		$332.95	-$7.14
	RS-TOD2				0.19881	0.07821			
19	On-Peak 5%	--	500	$7.30	$4.97	$37.15		$49.42	-$0.71
20	Off-Peak 95%	--	1,000	$7.30	$9.94	$74.30		$91.54	-$1.43
21		--	2,000	$7.30	$19.88	$148.60		$175.78	-$2.85
22		--	3,000	$7.30	$29.82	$222.90		$260.02	-$4.28
23		--	4,000	$7.30	$39.76	$297.20		$344.26	-$5.71
24		--	5,000	$7.30	$49.70	$371.50		$428.50	-$7.14
	GS-SEC < 10 KW				0.07762	0.05810	$4.695		
25	Block 1 - up to 4,500 kWh	3 kW	200	$9.70	$15.52	$0.00	$0.00	$25.22	-$0.29
26	Block 2 - all other kWh	3 kW	500	$9.70	$38.81	$0.00	$0.00	$48.51	-$0.71
27		5 kW	1,000	$9.70	$77.62	$0.00	$0.00	$87.32	-$1.43
28		7 kW	2,500	$9.70	$194.05	$0.00	$0.00	$203.75	-$3.57
29		9 kW	5,000	$9.70	$349.29	$29.05	$0.00	$388.04	-$7.14
	GS-TOD2				0.14131	0.07222			
30	On-Peak 5%	--	1,000	$9.70	$7.07	$68.61		$85.38	-$1.43
31	Off-Peak 95%	--	2,500	$9.70	$17.66	$171.52		$198.88	-$3.57
32		--	5,000	$9.70	$35.33	$343.05		$388.08	-$7.14
33		--	7,500	$9.70	$52.99	$514.57		$577.26	-$10.70
	GS-OUSP				0.07762				
34	Optional Unmetered	--	200	$5.05	$15.52			$20.57	-$0.29
35	Service Provision	--	500	$5.05	$38.81			$43.86	-$0.71
36		--	1,000	$5.05	$77.62			$82.67	-$1.43
37		--	2,500	$5.05	$194.05			$199.10	-$3.57
38		--	5,000	$5.05	$388.10			$393.15	-$7.14
	GS-SEC				0.07762	0.05810	$4.695		
39	Block 1 - up to 4,500 kWh	10 kW	2,000	$9.70	$155.24	$0.00	$0.00	$164.94	-$2.85
40	Block 2 - all other kWh	10 kW	3,000	$9.70	$232.86	$0.00	$0.00	$242.56	-$4.28
41		10 kW	4,000	$9.70	$310.48	$0.00	$0.00	$320.18	-$5.71
42		10 kW	5,000	$9.70	$349.29	$29.05	$0.00	$388.04	-$7.14
43		100 kW	20,000	$9.70	$349.29	$900.55	$422.55	$1,682.09	-$28.54
44		100 kW	25,000	$9.70	$349.29	$1,191.05	$422.55	$1,972.59	-$35.68
45		100 kW	30,000	$9.70	$349.29	$1,481.55	$422.55	$2,263.09	-$42.81
46		500 kW	100,000	$9.70	$349.29	$5,548.55	$2,300.55	$8,208.09	-$142.70
	GS-TOD				0.10829	0.02903			
47	On-Peak 40%	--	100	$10.90	$4.33	$1.74		$16.97	-$0.14
48	Off-Peak 60%	--	250	$10.90	$10.83	$4.35		$26.08	-$0.36
49		--	500	$10.90	$21.66	$8.71		$41.27	-$0.71
50		--	1,000	$10.90	$43.32	$17.42		$71.64	-$1.43
51		--	2,000	$10.90	$86.63	$34.84		$132.37	-$2.85
52		--	4,000	$10.90	$173.26	$69.67		$253.83	-$5.71

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current Rates

Line No.	Tariff	Demand	Metered Energy	Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total
	GS-LM-TOD				0.10829	0.02903			
53	On-Peak 30%	--	500	$10.90	$16.24	$10.16		$37.30	-$0.71
54	Off-Peak 70%	--	1,000	$10.90	$32.49	$20.32		$63.71	-$1.43
55		--	2,000	$10.90	$64.97	$40.64		$116.51	-$2.85
		--	2,500	$10.90	$81.22	$50.80		$142.92	-$3.57
56		--	3,000	$10.90	$97.46	$60.96		$169.32	-$4.28
57		--	4,000	$10.90	$129.95	$81.28		$222.13	-$5.71
58		--	5,000	$10.90	$162.44	$101.61		$274.95	-$7.14
	GS-PRI				0.07559	0.05662	$3.292		
59		500 kW	100,000	$116.50	$340.16	$5,407.21	$1,613.08	$7,476.95	-$142.70
	GS-SUB				0.07442	0.05571	$0.928		
60		500 kW	150,000	$116.50	$334.89	$8,105.81	$454.72	$9,011.92	-$214.05
	LGS-SEC				0.06217	0.04216	$4.695		
61	Block 1 - 1st 300 kWh/kVA	100 kW	30,000	$35.30	$1,799.82	$0.00	$492.98	$2,328.10	-$41.31
62	Block 2 - all other kWh	100 kW	40,000	$35.30	$1,958.36	$299.34	$492.98	$2,785.98	-$55.08
63		100 kW	50,000	$35.30	$1,958.36	$706.18	$492.98	$3,192.82	-$68.85
64		100 kW	60,000	$35.30	$1,958.36	$1,113.02	$492.98	$3,599.66	-$82.62
65		500 kW	150,000	$35.30	$8,999.11	$0.00	$2,469.57	$11,503.98	-$206.56
66		500 kW	200,000	$35.30	$9,810.43	$1,484.03	$2,469.57	$13,799.33	-$275.41
67		500 kW	250,000	$35.30	$9,810.43	$3,518.25	$2,469.57	$15,833.55	-$344.26
68		500 kW	300,000	$35.30	$9,810.43	$5,552.47	$2,469.57	$17,867.77	-$413.12
	LGS-PRI				0.06057	0.04106	$3.292		
69		500 kW	150,000	$159.20	$8,767.51	$0.00	$1,731.59	$10,658.30	-$206.56
70		500 kW	200,000	$159.20	$9,557.95	$1,445.31	$1,731.59	$12,894.05	-$275.41
71		500 kW	250,000	$159.20	$9,557.95	$3,426.46	$1,731.59	$14,875.20	-$344.26
72		500 kW	300,000	$159.20	$9,557.95	$5,407.60	$1,731.59	$16,856.34	-$413.12
	LGS-SUB				0.05962	0.04043	$0.928		
73		500 kW	100,000	$159.20	$5,753.33	$0.00	$488.13	$6,400.66	-$137.71
74		500 kW	150,000	$159.20	$8,630.00	$0.00	$488.13	$9,277.33	-$206.56
75		500 kW	200,000	$159.20	$9,408.04	$1,423.14	$488.13	$11,478.51	-$275.41
76		500 kW	250,000	$159.20	$9,408.04	$3,373.88	$488.13	$13,429.25	-$344.26
	LGS-LM-TOD				0.10829	0.02903			
77	On-Peak 25%	--	30,000	$35.30	$812.18	$653.18		$1,500.66	-$42.81
78	Off-Peak 75%	--	150,000	$35.30	$4,060.88	$3,265.88		$7,362.06	-$214.05
79		--	300,000	$35.30	$8,121.75	$6,531.75		$14,688.80	-$428.10
	LGS-TOD-SEC				0.08710	0.02903	$3.727		
80	On-Peak 45%	300 kW	70,000	$35.30	$2,743.65	$1,117.66	$1,118.10	$5,014.71	-$99.89
81	Off-Peak 55%	300 kW	80,000	$35.30	$3,135.60	$1,277.32	$1,118.10	$5,566.32	-$114.16
82		300 kW	90,000	$35.30	$3,527.55	$1,436.99	$1,118.10	$6,117.94	-$128.43
	LGS-TOD-PRI				0.07928	0.02850	$2.345		
83	On-Peak 40%	100 kW	20,000	$116.10	$634.24	$342.00	$234.50	$1,326.84	-$28.54
84	Off-Peak 60%	100 kW	25,000	$116.10	$792.80	$427.50	$234.50	$1,570.90	-$35.68
85		100 kW	30,000	$116.10	$951.36	$513.00	$234.50	$1,814.96	-$42.81
									$0.00
	IP-SEC				0.04897	0.01953	$8.757		
86	Block 1 - 1st 410 kWh/kVA	1,000 kVA	250,000	$115.00	$11,814.01	$0.00	$8,757.00	$20,686.01	-$344.26
87	Block 2 - all other kWh	1,000 kVA	350,000	$115.00	$16,539.62	$0.00	$8,757.00	$25,411.62	-$481.97
88		1,000 kVA	450,000	$115.00	$20,077.70	$473.60	$8,757.00	$29,423.30	-$619.67
89		1,000 kVA	550,000	$115.00	$20,077.70	$2,358.25	$8,757.00	$31,307.95	-$757.38
90		1,000 kVA	650,000	$115.00	$20,077.70	$4,242.89	$8,757.00	$33,192.59	-$895.09
	IP-PRI				0.04769	0.01901	$7.264		
91		2,000 kVA	900,000	$171.00	$39,105.80	$921.99	$14,528.00	$54,726.79	-$1,239.35
92		2,000 kVA	1,100,000	$171.00	$39,105.80	$4,590.92	$14,528.00	$58,395.72	-$1,514.76
93		2,000 kVA	1,300,000	$171.00	$39,105.80	$8,259.85	$14,528.00	$62,064.65	-$1,790.17
	IP-SUB				0.04695	0.01872	$4.819		
94		10,000 kVA	4,500,000	$171.00	$192,495.00	$4,539.60	$48,190.00	$245,395.60	-$6,196.75
95		10,000 kVA	5,500,000	$171.00	$192,495.00	$22,604.40	$48,190.00	$263,460.40	-$7,573.80
96		10,000 kVA	6,500,000	$171.00	$192,495.00	$40,669.20	$48,190.00	$281,525.20	-$8,950.86
	IP-TRAN				0.04651	0.01854	$4.764		
97		10,000 kVA	4,500,000	$171.00	$190,691.00	$4,495.95	$47,640.00	$242,997.95	-$6,196.75
98		10,000 kVA	5,500,000	$171.00	$190,691.00	$22,387.05	$47,640.00	$260,889.05	-$7,573.80
99		10,000 kVA	6,500,000	$171.00	$190,691.00	$40,278.15	$47,640.00	$278,780.15	-$8,950.86
	MS				0.07535				
100		--	2,500	$21.30	$188.38			$209.68	-$3.57
101		--	10,000	$21.30	$753.50			$774.80	-$14.27
102		--	17,500	$21.30	$1,318.63			$1,339.93	-$24.97

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current

Line No.	Tariff	Demand	Metered Energy	Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Line No.	Tariff	Demand	Metered Energy	Current Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total
	WSS-SEC				0.06002				
103		--	5,000	$12.65	$300.10			$312.75	-$7.14
104		--	20,000	$12.65	$1,200.40			$1,213.05	-$28.54
105		--	50,000	$12.65	$3,001.00			$3,013.65	-$71.35
	WSS-PRI				0.05445				
106		--	50,000	$55.45	$2,722.50			$2,777.95	-$71.35
107		--	350,000	$55.45	$19,057.50			$19,112.95	-$499.45
108			650,000	$55.45	$35,392.50			$35,447.95	-$927.55
	WSS-SUB				0.04715				
109		--	50,000	$55.45	$2,357.50			$2,412.95	-$71.35
110		--	350,000	$55.45	$16,502.50			$16,557.95	-$499.45
111			650,000	$55.45	$30,647.50			$30,702.95	-$927.55
	WSS-TOD-SEC				0.09453	0.02904			
112	On-Peak 30%	--	5,000	$13.85	$141.80	$101.64		$257.29	-$7.14
113	Off-Peak 70%	--	20,000	$13.85	$567.18	$406.56		$987.59	-$28.54
114									
	IS				0.12113				
115		--	1,000	$0.00	$121.13			$121.13	-$1.43
116		--	2,500	$0.00	$302.83			$302.83	-$3.57
117		--	4,000	$0.00	$484.52			$484.52	-$5.71
	EHG				0.08530				
118		--	2,000	$11.20	$170.60			$181.80	-$2.85
119		--	5,000	$11.20	$426.50			$437.70	-$7.14
120		--	8,000	$11.20	$682.40			$693.60	-$11.42

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total	Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total
0.002624	0.000503	0.006753	-0.000013	-0.000604	0.006929	0.005831	0.002067	-0.001242	0.000275
$0.26	$0.05	$0.68	$0.00	-$0.06	$0.69	$0.58	$0.21	-$0.12	$0.03
$0.66	$0.13	$1.69	$0.00	-$0.15	$1.73	$1.46	$0.52	-$0.31	$0.07
$1.31	$0.25	$3.38	-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14
$2.62	$0.50	$6.75	-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28
$5.25	$1.01	$13.51	-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55
$10.50	$2.01	$27.01	-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10
$0.26	$0.05	$0.68	$0.00	-$0.06	$0.69	$0.58	$0.21	-$0.12	$0.03
$0.66	$0.13	$1.69	$0.00	-$0.15	$1.73	$1.46	$0.52	-$0.31	$0.07
$1.31	$0.25	$3.38	-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14
$2.62	$0.50	$6.75	-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28
$5.25	$1.01	$13.51	-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55
$10.50	$2.01	$27.01	-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10
$1.31	$0.25	$3.38	-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14
$2.62	$0.50	$6.75	-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28
$5.25	$1.01	$13.51	-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55
$7.87	$1.51	$20.26	-$0.04	-$1.81	$20.79	$17.49	$6.20	-$3.73	$0.83
$10.50	$2.01	$27.01	-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10
$13.12	$2.52	$33.77	-$0.07	-$3.02	$34.65	$29.16	$10.34	-$6.21	$1.38
$1.31	$0.25	$3.38	-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14
$2.62	$0.50	$6.75	-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28
$5.25	$1.01	$13.51	-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55
$7.87	$1.51	$20.26	-$0.04	-$1.81	$20.79	$17.49	$6.20	-$3.73	$0.83
$10.50	$2.01	$27.01	-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10
$13.12	$2.52	$33.77	-$0.07	-$3.02	$34.65	$29.16	$10.34	-$6.21	$1.38
0.002146	0.000378	0.014387		-0.000494	0.006120	0.004379	0.001742	-0.001015	0.000207
$0.43	$0.08	$2.88	$0.00	-$0.10	$1.22	$0.88	$0.35	-$0.20	$0.04
$1.07	$0.19	$7.19	-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10
$2.15	$0.38	$14.39	-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21
$5.37	$0.95	$35.97	-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52
$10.73	$1.89	$71.94	-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04
$2.15	$0.38	$14.39	-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21
$5.37	$0.95	$35.97	-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52
$10.73	$1.89	$71.94	-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04
$16.10	$2.84	$107.90	-$0.10	-$3.71	$45.90	$32.84	$13.07	-$7.61	$1.55
$0.43	$0.08	$0.00	$0.00	-$0.10	$1.22	$0.88	$0.35	-$0.20	$0.04
$1.07	$0.19	$0.00	-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10
$2.15	$0.38	$0.00	-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21
$5.37	$0.95	$0.00	-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52
$10.73	$1.89	$0.00	-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04
	0.000378	0.014387		-0.000494	0.006120	0.004379	0.001742	-0.001015	0.000207
$4.29	$0.76	$28.77	-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41
$6.44	$1.13	$43.16	-$0.04	-$1.48	$18.36	$13.14	$5.23	-$3.05	$0.62
$8.58	$1.51	$57.55	-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83
$10.73	$1.89	$71.94	-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04
$42.92	$7.56	$287.74	-$0.26	-$9.88	$122.40	$87.58	$34.84	-$20.30	$4.14
$53.65	$9.45	$359.68	-$0.33	-$12.35	$153.00	$109.48	$43.55	-$25.38	$5.18
$64.38	$11.34	$431.61	-$0.39	-$14.82	$183.60	$131.37	$52.26	-$30.45	$6.21
$214.60	$37.80	$1,438.70	-$1.30	-$49.40	$612.00	$437.90	$174.20	-$101.50	$20.70
$0.21	$0.04	$1.44	$0.00	-$0.05	$0.61	$0.44	$0.17	-$0.10	$0.02
$0.54	$0.09	$3.60	$0.00	-$0.12	$1.53	$1.09	$0.44	-$0.25	$0.05
$1.07	$0.19	$7.19	-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10
$2.15	$0.38	$14.39	-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21
$4.29	$0.76	$28.77	-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41
$8.58	$1.51	$57.55	-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83

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Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total	Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total
$1.07	$0.19	$7.19	-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10
$2.15	$0.38	$14.39	-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21
$4.29	$0.76	$28.77	-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41
$5.37	$0.95	$35.97	-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52
$6.44	$1.13	$43.16	-$0.04	-$1.48	$18.36	$13.14	$5.23	-$3.05	$0.62
$8.58	$1.51	$57.55	-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83
$10.73	$1.89	$71.94	-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04
$214.60	$37.80	$1,438.70	-$1.30	-$49.40	$612.00	$437.90	$174.20	-$101.50	$20.70
$321.90	$56.70	$2,158.05	-$1.95	-$74.10	$918.00	$656.85	$261.30	-$152.25	$31.05
0.699	0.000358	0.000788		-0.000439	0.005726	0.004155	0.001397	-0.000905	0.000196
$72.70	$10.36	$22.81	-$0.38	-$12.71	$165.77	$120.29	$40.44	-$26.20	$5.67
$72.70	$13.82	$30.42	-$0.50	-$16.95	$221.02	$160.38	$53.92	-$34.93	$7.57
$72.70	$17.27	$38.02	-$0.63	-$21.18	$276.28	$200.48	$67.41	-$43.67	$9.46
$72.70	$20.73	$45.63	-$0.75	-$25.42	$331.54	$240.57	$80.89	-$52.40	$11.35
$362.08	$51.82	$114.06	-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37
$362.08	$69.09	$152.08	-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83
$362.08	$86.37	$190.11	-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29
$362.08	$103.64	$228.13	-$3.76	-$127.09	$1,657.68	$1,202.87	$404.43	-$262.00	$56.74
$362.08	$51.82	$114.06	-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37
$362.08	$69.09	$152.08	-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83
$362.08	$86.37	$190.11	-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29
$362.08	$103.64	$228.13	-$3.76	-$127.09	$1,657.68	$1,202.87	$404.43	-$262.00	$56.74
$362.08	$34.55	$76.04	-$1.25	-$42.36	$552.56	$400.96	$134.81	-$87.33	$18.91
$362.08	$51.82	$114.06	-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37
$362.08	$69.09	$152.08	-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83
$362.08	$86.37	$190.11	-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29
0.001912									
$57.36	$10.74	$23.64	-$0.39	-$13.17	$171.78	$124.65	$41.91	-$27.15	$5.88
$286.80	$53.70	$118.20	-$1.95	-$65.85	$858.90	$623.25	$209.55	-$135.75	$29.40
$573.60	$107.40	$236.40	-$3.90	-$131.70	$1,717.80	$1,246.50	$419.10	-$271.50	$58.80
0.699									
$209.70	$25.06	$55.16	-$0.91	-$30.73	$400.82	$290.85	$97.79	-$63.35	$13.72
$209.70	$28.64	$63.04	-$1.04	-$35.12	$458.08	$332.40	$111.76	-$72.40	$15.68
$209.70	$32.22	$70.92	-$1.17	-$39.51	$515.34	$373.95	$125.73	-$81.45	$17.64
$69.90	$7.16	$15.76	-$0.26	-$8.78	$114.52	$83.10	$27.94	-$18.10	$3.92
$69.90	$8.95	$19.70	-$0.33	-$10.98	$143.15	$103.88	$34.93	-$22.63	$4.90
$69.90	$10.74	$23.64	-$0.39	-$13.17	$171.78	$124.65	$41.91	-$27.15	$5.88
0.761	0.000285	0.000062		-0.000386	0.005319	0.003300	0.001344	-0.000792	0.000156
$761.00	$68.76	$14.96	-$3.14	-$93.12	$1,283.21	$796.13	$324.24	-$191.07	$37.64
$761.00	$96.26	$20.94	-$4.39	-$130.37	$1,796.49	$1,114.58	$453.94	-$267.50	$52.69
$761.00	$123.76	$26.92	-$5.65	-$167.62	$2,309.78	$1,433.03	$583.63	-$343.93	$67.74
$761.00	$151.26	$32.91	-$6.90	-$204.87	$2,823.06	$1,751.48	$713.33	-$420.35	$82.80
$761.00	$178.77	$38.89	-$8.15	-$242.12	$3,336.34	$2,069.93	$843.02	-$496.78	$97.85
$1,522.00	$247.52	$53.85	-$11.29	-$335.24	$4,619.55	$2,866.05	$1,167.26	-$687.85	$135.49
$1,522.00	$302.53	$65.81	-$13.80	-$409.74	$5,646.12	$3,502.95	$1,426.66	-$840.71	$165.59
$1,522.00	$357.53	$77.78	-$16.31	-$484.24	$6,672.69	$4,139.85	$1,686.05	-$993.56	$195.70
$7,610.00	$1,237.61	$269.24	-$56.45	-$1,676.21	$23,097.76	$14,330.25	$5,836.32	-$3,439.26	$677.43
$7,610.00	$1,512.64	$329.07	-$69.00	-$2,048.70	$28,230.59	$17,514.75	$7,133.28	-$4,203.54	$827.97
$7,610.00	$1,787.66	$388.90	-$81.54	-$2,421.19	$33,363.43	$20,699.25	$8,430.24	-$4,967.82	$978.51
$7,610.00	$1,237.61	$269.24	-$56.45	-$1,676.21	$23,097.76	$14,330.25	$5,836.32	-$3,439.26	$677.43
$7,610.00	$1,512.64	$329.07	-$69.00	-$2,048.70	$28,230.59	$17,514.75	$7,133.28	-$4,203.54	$827.97
$7,610.00	$1,787.66	$388.90	-$81.54	-$2,421.19	$33,363.43	$20,699.25	$8,430.24	-$4,967.82	$978.51
0.002064	0.000427	0.007512		-0.000476	0.005981	0.004952	0.001924	-0.000977	0.000234
$5.16	$1.07	$18.78	-$0.03	-$1.19	$14.95	$12.38	$4.81	-$2.44	$0.59
$20.64	$4.27	$75.12	-$0.13	-$4.76	$59.81	$49.52	$19.24	-$9.77	$2.34
$36.12	$7.47	$131.46	-$0.23	-$8.33	$104.67	$86.66	$33.67	-$17.10	$4.10

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Typical Electric Bill Comparison

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0.001576	0.000286	0.002907		-0.000362	0.005154	0.003313	0.001422	-0.000746	0.000157
$7.88	$1.43	$14.54	-$0.07	-$1.81	$25.77	$16.57	$7.11	-$3.73	$0.79
$31.52	$5.72	$58.14	-$0.26	-$7.24	$103.08	$66.26	$28.44	-$14.92	$3.14
$78.80	$14.30	$145.35	-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85
$78.80	$14.30	$145.35	-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85
$551.60	$100.10	$1,017.45	-$4.55	-$126.70	$1,803.90	$1,159.55	$497.70	-$261.10	$54.95
$1,024.40	$185.90	$1,889.55	-$8.45	-$235.30	$3,350.10	$2,153.45	$924.30	-$484.90	$102.05
$78.80	$14.30	$145.35	-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85
$551.60	$100.10	$1,017.45	-$4.55	-$126.70	$1,803.90	$1,159.55	$497.70	-$261.10	$54.95
$1,024.40	$185.90	$1,889.55	-$8.45	-$235.30	$3,350.10	$2,153.45	$924.30	-$484.90	$102.05
$7.88	$1.43	$14.54	-$0.07	-$1.81	$25.77	$16.57	$7.11	-$3.73	$0.79
$31.52	$5.72	$58.14	-$0.26	-$7.24	$103.08	$66.26	$28.44	-$14.92	$3.14
0.001884	0.000213	0.036233		-0.000437	0.005687	0.002477	0.000888	-0.000894	0.000117
$1.88	$0.21	$36.23	-$0.01	-$0.44	$5.69	$2.48	$0.89	-$0.89	$0.12
$4.71	$0.53	$90.58	-$0.03	-$1.09	$14.22	$6.19	$2.22	-$2.24	$0.29
$7.54	$0.85	$144.93	-$0.05	-$1.75	$22.75	$9.91	$3.55	-$3.58	$0.47
0.002415	0.000590	0.015732		-0.000556	0.006578	0.006843	0.003077	-0.001143	0.000323
$4.83	$1.18	$31.46	-$0.03	-$1.11	$13.16	$13.69	$6.15	-$2.29	$0.65
$12.08	$2.95	$78.66	-$0.07	-$2.78	$32.89	$34.22	$15.39	-$5.72	$1.62
$19.32	$4.72	$125.86	-$0.10	-$4.45	$52.62	$54.74	$24.62	-$9.14	$2.58

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current Bill	**Proposed** Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total	Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total
		0.08634				-0.001427	0.002624	0.000503	0.006067
$18.11	$7.30	$8.63			$15.93	-$0.14	$0.26	$0.05	$0.61
$34.33	$7.30	$21.59			$28.89	-$0.36	$0.66	$0.13	$1.52
$61.32	$7.30	$43.17			$50.47	-$0.71	$1.31	$0.25	$3.03
$115.34	$7.30	$86.34			$93.64	-$1.43	$2.62	$0.50	$6.07
$223.38	$7.30	$172.68			$179.98	-$2.85	$5.25	$1.01	$12.13
$439.44	$7.30	$345.36			$352.66	-$5.71	$10.50	$2.01	$24.27
		0.14924	0.02874						
$15.96	$8.50	$2.98	$2.30		$13.78	-$0.14	$0.26	$0.05	$0.61
$27.15	$8.50	$7.46	$5.75		$21.71	-$0.36	$0.66	$0.13	$1.52
$45.77	$8.50	$14.92	$11.50		$34.92	-$0.71	$1.31	$0.25	$3.03
$83.04	$8.50	$29.85	$22.99		$61.34	-$1.43	$2.62	$0.50	$6.07
$157.58	$8.50	$59.70	$45.98		$114.18	-$2.85	$5.25	$1.01	$12.13
$306.64	$8.50	$119.39	$91.97		$219.86	-$5.71	$10.50	$2.01	$24.27
		0.14924	0.02874						
$51.80	$8.50	$22.39	$10.06		$40.95	-$0.71	$1.31	$0.25	$3.03
$95.09	$8.50	$44.77	$20.12		$73.39	-$1.43	$2.62	$0.50	$6.07
$181.68	$8.50	$89.54	$40.24		$138.28	-$2.85	$5.25	$1.01	$12.13
$268.26	$8.50	$134.32	$60.35		$203.17	-$4.28	$7.87	$1.51	$18.20
$354.84	$8.50	$179.09	$80.47		$268.06	-$5.71	$10.50	$2.01	$24.27
$441.45	$8.50	$223.86	$100.59		$332.95	-$7.14	$13.12	$2.52	$30.34
		0.19881	0.07821						
$60.27	$7.30	$4.97	$37.15		$49.42	-$0.71	$1.31	$0.25	$3.03
$113.24	$7.30	$9.94	$74.30		$91.54	-$1.43	$2.62	$0.50	$6.07
$219.18	$7.30	$19.88	$148.60		$175.78	-$2.85	$5.25	$1.01	$12.13
$325.11	$7.30	$29.82	$222.90		$260.02	-$4.28	$7.87	$1.51	$18.20
$431.04	$7.30	$39.76	$297.20		$344.26	-$5.71	$10.50	$2.01	$24.27
$537.00	$7.30	$49.70	$371.50		$428.50	-$7.14	$13.12	$2.52	$30.34
		0.07762	0.05810	$4.695			0.002146	0.000378	0.014445
$30.51	$9.70	$15.52	$0.00	$0.00	$25.22	-$0.29	$0.43	$0.08	$2.89
$61.70	$9.70	$38.81	$0.00	$0.00	$48.51	-$0.71	$1.07	$0.19	$7.22
$113.74	$9.70	$77.62	$0.00	$0.00	$87.32	-$1.43	$2.15	$0.38	$14.45
$269.79	$9.70	$194.05	$0.00	$0.00	$203.75	-$3.57	$5.37	$0.95	$36.11
$520.09	$9.70	$349.29	$29.05	$0.00	$388.04	-$7.14	$10.73	$1.89	$72.23
		0.14131	0.07222						
$111.80	$9.70	$7.07	$68.61		$85.38	-$1.43	$2.15	$0.38	$14.45
$264.92	$9.70	$17.66	$171.52		$198.88	-$3.57	$5.37	$0.95	$36.11
$520.13	$9.70	$35.33	$343.05		$388.08	-$7.14	$10.73	$1.89	$72.23
$775.34	$9.70	$52.99	$514.57		$577.26	-$10.70	$16.10	$2.84	$108.34
		0.07762							
$22.98	$5.05	$15.52			$20.57	-$0.29	$0.43	$0.08	$0.00
$49.86	$5.05	$38.81			$43.86	-$0.71	$1.07	$0.19	$0.00
$94.70	$5.05	$77.62			$82.67	-$1.43	$2.15	$0.38	$0.00
$229.17	$5.05	$194.05			$199.10	-$3.57	$5.37	$0.95	$0.00
$453.26	$5.05	$388.10			$393.15	-$7.14	$10.73	$1.89	$0.00
		0.07762	0.05810	$4.695				0.000378	0.014445
$217.75	$9.70	$155.24	$0.00	$0.00	$164.94	-$2.85	$4.29	$0.76	$28.89
$321.79	$9.70	$232.86	$0.00	$0.00	$242.56	-$4.28	$6.44	$1.13	$43.34
$425.82	$9.70	$310.48	$0.00	$0.00	$320.18	-$5.71	$8.58	$1.51	$57.78
$520.09	$9.70	$349.29	$29.05	$0.00	$388.04	-$7.14	$10.73	$1.89	$72.23
$2,210.29	$9.70	$349.29	$900.55	$422.55	$1,682.09	-$28.54	$42.92	$7.56	$288.90
$2,632.84	$9.70	$349.29	$1,191.05	$422.55	$1,972.59	-$35.68	$53.65	$9.45	$361.13
$3,055.39	$9.70	$349.29	$1,481.55	$422.55	$2,263.09	-$42.81	$64.38	$11.34	$433.35
$10,849.09	$9.70	$349.29	$5,548.55	$2,300.55	$8,208.09	-$142.70	$214.60	$37.80	$1,444.50
		0.10829	0.02903						
$19.61	$10.90	$4.33	$1.74		$16.97	-$0.14	$0.21	$0.04	$1.44
$32.69	$10.90	$10.83	$4.35		$26.08	-$0.36	$0.54	$0.09	$3.61
$54.46	$10.90	$21.66	$8.71		$41.27	-$0.71	$1.07	$0.19	$7.22
$98.06	$10.90	$43.32	$17.42		$71.64	-$1.43	$2.15	$0.38	$14.45
$185.18	$10.90	$86.63	$34.84		$132.37	-$2.85	$4.29	$0.76	$28.89
$359.47	$10.90	$173.26	$69.67		$253.83	-$5.71	$8.58	$1.51	$57.78

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current Bill	**Proposed** Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total	Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total
		0.10829	0.02903						
$50.49	$10.90	$16.24	$10.16		$37.30	-$0.71	$1.07	$0.19	$7.22
$90.13	$10.90	$32.49	$20.32		$63.71	-$1.43	$2.15	$0.38	$14.45
$169.32	$10.90	$64.97	$40.64		$116.51	-$2.85	$4.29	$0.76	$28.89
$208.96	$10.90	$81.22	$50.80		$142.92	-$3.57	$5.37	$0.95	$36.11
$248.55	$10.90	$97.46	$60.96		$169.32	-$4.28	$6.44	$1.13	$43.34
$327.77	$10.90	$129.95	$81.28		$222.13	-$5.71	$8.58	$1.51	$57.78
$407.00	$10.90	$162.44	$101.61		$274.95	-$7.14	$10.73	$1.89	$72.23
		0.07559	0.05662	$3.292					
$10,117.95	$116.50	$340.16	$5,407.21	$1,613.08	$7,476.95	-$142.70	$214.60	$37.80	$1,444.50
		0.07442	0.05571	$0.928					
$12,973.42	$116.50	$334.89	$8,105.81	$454.72	$9,011.92	-$214.05	$321.90	$56.70	$2,166.75
		0.06217	0.04216	$4.695			0.699	0.000358	0.000760
$2,685.54	$35.30	$1,799.82	$0.00	$492.98	$2,328.10	-$41.31	$72.70	$10.36	$22.00
$3,238.35	$35.30	$1,958.36	$299.34	$492.98	$2,785.98	-$55.08	$72.70	$13.82	$29.34
$3,740.11	$35.30	$1,958.36	$706.18	$492.98	$3,192.82	-$68.85	$72.70	$17.27	$36.67
$4,241.88	$35.30	$1,958.36	$1,113.02	$492.98	$3,599.66	-$82.62	$72.70	$20.73	$44.00
$13,289.82	$35.30	$8,999.11	$0.00	$2,469.57	$11,503.98	-$206.56	$362.08	$51.82	$110.01
$16,059.75	$35.30	$9,810.43	$1,484.03	$2,469.57	$13,799.33	-$275.41	$362.08	$69.09	$146.68
$18,568.58	$35.30	$9,810.43	$3,518.25	$2,469.57	$15,833.55	-$344.26	$362.08	$86.37	$183.35
$21,077.37	$35.30	$9,810.43	$5,552.47	$2,469.57	$17,867.77	-$413.12	$362.08	$103.64	$220.02
		0.06057	0.04106	$3.292					
$12,444.14	$159.20	$8,767.51	$0.00	$1,731.59	$10,658.30	-$206.56	$362.08	$51.82	$110.01
$15,154.47	$159.20	$9,557.95	$1,445.31	$1,731.59	$12,894.05	-$275.41	$362.08	$69.09	$146.68
$17,610.23	$159.20	$9,557.95	$3,426.46	$1,731.59	$14,875.20	-$344.26	$362.08	$86.37	$183.35
$20,065.94	$159.20	$9,557.95	$5,407.60	$1,731.59	$16,856.34	-$413.12	$362.08	$103.64	$220.02
		0.05962	0.04043	$0.928					
$7,711.92	$159.20	$5,753.33	$0.00	$488.13	$6,400.66	-$137.71	$362.08	$34.55	$73.34
$11,063.17	$159.20	$8,630.00	$0.00	$488.13	$9,277.33	-$206.56	$362.08	$51.82	$110.01
$13,738.93	$159.20	$9,408.04	$1,423.14	$488.13	$11,478.51	-$275.41	$362.08	$69.09	$146.68
$16,164.28	$159.20	$9,408.04	$3,373.88	$488.13	$13,429.25	-$344.26	$362.08	$86.37	$183.35
		0.10829	0.02903				0.001912		
$1,853.10	$35.30	$812.18	$653.18		$1,500.66	-$42.81	$57.36	$10.74	$22.80
$9,124.26	$35.30	$4,060.88	$3,265.88		$7,362.06	-$214.05	$286.80	$53.70	$114.00
$18,213.20	$35.30	$8,121.75	$6,531.75		$14,688.80	-$428.10	$573.60	$107.40	$228.00
		0.08710	0.02903	$3.727					
$5,912.93	$35.30	$2,743.65	$1,117.66	$1,118.10	$5,014.71	-$99.89	$209.70	$25.06	$53.20
$6,562.90	$35.30	$3,135.60	$1,277.32	$1,118.10	$5,566.32	-$114.16	$209.70	$28.64	$60.80
$7,212.88	$35.30	$3,527.55	$1,436.99	$1,118.10	$6,117.94	-$128.43	$209.70	$32.22	$68.40
		0.07928	0.02850	$2.345					
$1,593.46	$116.10	$634.24	$342.00	$234.50	$1,326.84	-$28.54	$69.90	$7.16	$15.20
$1,886.69	$116.10	$792.80	$427.50	$234.50	$1,570.90	-$35.68	$69.90	$8.95	$19.00
$2,179.94	$116.10	$951.36	$513.00	$234.50	$1,814.96	-$42.81	$69.90	$10.74	$22.80
		0.04897	0.01953	$8.757			0.761	0.000285	0.000040
$23,340.36	$115.00	$11,814.01	$0.00	$8,757.00	$20,686.01	-$344.26	$761.00	$68.76	$9.65
$28,823.29	$115.00	$16,539.62	$0.00	$8,757.00	$25,411.62	-$481.97	$761.00	$96.26	$13.51
$33,592.29	$115.00	$20,077.70	$473.60	$8,757.00	$29,423.30	-$619.67	$761.00	$123.76	$17.37
$36,234.29	$115.00	$20,077.70	$2,358.25	$8,757.00	$31,307.95	-$757.38	$761.00	$151.26	$21.23
$38,876.25	$115.00	$20,077.70	$4,242.89	$8,757.00	$33,192.59	-$895.09	$761.00	$178.77	$25.09
		0.04769	0.01901	$7.264					
$63,064.78	$171.00	$39,105.80	$921.99	$14,528.00	$54,726.79	-$1,239.35	$1,522.00	$247.52	$34.74
$68,248.37	$171.00	$39,105.80	$4,590.92	$14,528.00	$58,395.72	-$1,514.76	$1,522.00	$302.53	$42.46
$73,431.97	$171.00	$39,105.80	$8,259.85	$14,528.00	$62,064.65	-$1,790.17	$1,522.00	$357.53	$50.18
		0.04695	0.01872	$4.819					
$287,085.54	$171.00	$192,495.00	$4,539.60	$48,190.00	$245,395.60	-$6,196.75	$7,610.00	$1,237.61	$173.70
$312,723.66	$171.00	$192,495.00	$22,604.40	$48,190.00	$263,460.40	-$7,573.80	$7,610.00	$1,512.64	$212.30
$338,361.78	$171.00	$192,495.00	$40,669.20	$48,190.00	$281,525.20	-$8,950.86	$7,610.00	$1,787.66	$250.90
		0.04651	0.01854	$4.764					
$284,687.89	$171.00	$190,691.00	$4,495.95	$47,640.00	$242,997.95	-$6,196.75	$7,610.00	$1,237.61	$173.70
$310,152.31	$171.00	$190,691.00	$22,387.05	$47,640.00	$260,889.05	-$7,573.80	$7,610.00	$1,512.64	$212.30
$335,616.73	$171.00	$190,691.00	$40,278.15	$47,640.00	$278,780.15	-$8,950.86	$7,610.00	$1,787.66	$250.90
		0.07535					0.002064	0.000427	0.006294
$260.19	$21.30	$188.38			$209.68	-$3.57	$5.16	$1.07	$15.74
$976.81	$21.30	$753.50			$774.80	-$14.27	$20.64	$4.27	$62.94
$1,693.45	$21.30	$1,318.63			$1,339.93	-$24.97	$36.12	$7.47	$110.15

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current Bill	**Proposed** Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total	Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Current Bill	**Proposed** Rates Customer Charge	Block 1 or On-Peak	Block 2 or Off-Peak	Demand On Pk Kw Cost	Total Base Bill	Fuel Cost Adjustment Rider Total	Capacity Settlement Rider Total	Clean Coal Technology Rider Total	DSM/EE Program Cost Rider Total
		0.06002					0.001576	0.000286	0.002250
$374.09	$12.65	$300.10			$312.75	-$7.14	$7.88	$1.43	$11.25
$1,458.39	$12.65	$1,200.40			$1,213.05	-$28.54	$31.52	$5.72	$45.00
$3,627.00	$12.65	$3,001.00			$3,013.65	-$71.35	$78.80	$14.30	$112.50
		0.05445							
$3,391.30	$55.45	$2,722.50			$2,777.95	-$71.35	$78.80	$14.30	$112.50
$23,406.40	$55.45	$19,057.50			$19,112.95	-$499.45	$551.60	$100.10	$787.50
$43,421.50	$55.45	$35,392.50			$35,447.95	-$927.55	$1,024.40	$185.90	$1,462.50
		0.04715							
$3,026.30	$55.45	$2,357.50			$2,412.95	-$71.35	$78.80	$14.30	$112.50
$20,851.40	$55.45	$16,502.50			$16,557.95	-$499.45	$551.60	$100.10	$787.50
$38,676.50	$55.45	$30,647.50			$30,702.95	-$927.55	$1,024.40	$185.90	$1,462.50
		0.09453	0.02904						
$318.63	$13.85	$141.80	$101.64		$257.29	-$7.14	$7.88	$1.43	$11.25
$1,232.93	$13.85	$567.18	$406.56		$987.59	-$28.54	$31.52	$5.72	$45.00
		0.12113					0.001884	0.000213	0.061456
$165.86	$0.00	$121.13			$121.13	-$1.43	$1.88	$0.21	$61.46
$414.64	$0.00	$302.83			$302.83	-$3.57	$4.71	$0.53	$153.64
$663.43	$0.00	$484.52			$484.52	-$5.71	$7.54	$0.85	$245.82
		0.08530					0.002415	0.000590	0.014568
$246.64	$11.20	$170.60			$181.80	-$2.85	$4.83	$1.18	$29.14
$599.80	$11.20	$426.50			$437.70	-$7.14	$12.08	$2.95	$72.84
$952.95	$11.20	$682.40			$693.60	-$11.42	$19.32	$4.72	$116.54

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total	Proposed Bill	Bill Increase	% Change
-0.000013	-0.000604	0.006929	0.005831	0.002067	-0.001242	0.000275			
$0.00	-$0.06	$0.69	$0.58	$0.21	-$0.12	$0.03	$18.04	$ (0.07)	-0.4%
$0.00	-$0.15	$1.73	$1.46	$0.52	-$0.31	$0.07	$34.16	$ (0.17)	-0.5%
-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14	$60.97	$ (0.35)	-0.6%
-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28	$114.66	$ (0.68)	-0.6%
-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55	$222.00	$ (1.38)	-0.6%
-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10	$436.70	$ (2.74)	-0.6%
$0.00	-$0.06	$0.69	$0.58	$0.21	-$0.12	$0.03	$15.89	$ (0.07)	-0.4%
$0.00	-$0.15	$1.73	$1.46	$0.52	-$0.31	$0.07	$26.98	$ (0.17)	-0.6%
-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14	$45.42	$ (0.35)	-0.8%
-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28	$82.36	$ (0.68)	-0.8%
-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55	$156.20	$ (1.38)	-0.9%
-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10	$303.90	$ (2.74)	-0.9%
-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14	$51.45	$ (0.35)	-0.7%
-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28	$94.41	$ (0.68)	-0.7%
-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55	$180.30	$ (1.38)	-0.8%
-$0.04	-$1.81	$20.79	$17.49	$6.20	-$3.73	$0.83	$266.20	$ (2.06)	-0.8%
-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10	$352.10	$ (2.74)	-0.8%
-$0.07	-$3.02	$34.65	$29.16	$10.34	-$6.21	$1.38	$438.02	$ (3.43)	-0.8%
-$0.01	-$0.30	$3.46	$2.92	$1.03	-$0.62	$0.14	$59.92	$ (0.35)	-0.6%
-$0.01	-$0.60	$6.93	$5.83	$2.07	-$1.24	$0.28	$112.56	$ (0.68)	-0.6%
-$0.03	-$1.21	$13.86	$11.66	$4.13	-$2.48	$0.55	$217.80	$ (1.38)	-0.6%
-$0.04	-$1.81	$20.79	$17.49	$6.20	-$3.73	$0.83	$323.05	$ (2.06)	-0.6%
-$0.05	-$2.42	$27.72	$23.32	$8.27	-$4.97	$1.10	$428.30	$ (2.74)	-0.6%
-$0.07	-$3.02	$34.65	$29.16	$10.34	-$6.21	$1.38	$533.57	$ (3.43)	-0.6%
	-0.000494	0.006120	0.004379	0.001742	-0.001015	0.000207			
$0.00	-$0.10	$1.22	$0.88	$0.35	-$0.20	$0.04	$30.52	$ 0.01	0.0%
-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10	$61.73	$ 0.03	0.0%
-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21	$113.80	$ 0.06	0.1%
-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52	$269.93	$ 0.14	0.1%
-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04	$520.38	$ 0.29	0.1%
-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21	$111.86	$ 0.06	0.1%
-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52	$265.06	$ 0.14	0.1%
-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04	$520.42	$ 0.29	0.1%
-$0.10	-$3.71	$45.90	$32.84	$13.07	-$7.61	$1.55	$775.78	$ 0.44	0.1%
$0.00	-$0.10	$1.22	$0.88	$0.35	-$0.20	$0.04	$22.98	$ -	0.0%
-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10	$49.86	$ -	0.0%
-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21	$94.70	$ -	0.0%
-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52	$229.17	$ -	0.0%
-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04	$453.26	$ -	0.0%
	-0.000494	0.006120	0.004379	0.001742	-0.001015	0.000207			
-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41	$217.87	$ 0.12	0.1%
-$0.04	-$1.48	$18.36	$13.14	$5.23	-$3.05	$0.62	$321.97	$ 0.18	0.1%
-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83	$426.05	$ 0.23	0.1%
-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04	$520.38	$ 0.29	0.1%
-$0.26	-$9.88	$122.40	$87.58	$34.84	-$20.30	$4.14	$2,211.45	$ 1.16	0.1%
-$0.33	-$12.35	$153.00	$109.48	$43.55	-$25.38	$5.18	$2,634.29	$ 1.45	0.1%
-$0.39	-$14.82	$183.60	$131.37	$52.26	-$30.45	$6.21	$3,057.13	$ 1.74	0.1%
-$1.30	-$49.40	$612.00	$437.90	$174.20	-$101.50	$20.70	$10,854.89	$ 5.80	0.1%
$0.00	-$0.05	$0.61	$0.44	$0.17	-$0.10	$0.02	$19.61	$ -	0.0%
$0.00	-$0.12	$1.53	$1.09	$0.44	-$0.25	$0.05	$32.70	$ 0.01	0.0%
-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10	$54.49	$ 0.03	0.1%
-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21	$98.12	$ 0.06	0.1%
-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41	$185.30	$ 0.12	0.1%
-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83	$359.70	$ 0.23	0.1%

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total	Proposed Bill	Bill Increase	% Change
-$0.01	-$0.25	$3.06	$2.19	$0.87	-$0.51	$0.10	$50.52	$ 0.03	0.1%
-$0.01	-$0.49	$6.12	$4.38	$1.74	-$1.02	$0.21	$90.19	$ 0.06	0.1%
-$0.03	-$0.99	$12.24	$8.76	$3.48	-$2.03	$0.41	$169.44	$ 0.12	0.1%
-$0.03	-$1.24	$15.30	$10.95	$4.36	-$2.54	$0.52	$209.10	$ 0.14	0.1%
-$0.04	-$1.48	$18.36	$13.14	$5.23	-$3.05	$0.62	$248.73	$ 0.18	0.1%
-$0.05	-$1.98	$24.48	$17.52	$6.97	-$4.06	$0.83	$328.00	$ 0.23	0.1%
-$0.07	-$2.47	$30.60	$21.90	$8.71	-$5.08	$1.04	$407.29	$ 0.29	0.1%
-$1.30	-$49.40	$612.00	$437.90	$174.20	-$101.50	$20.70	$10,123.75	$ 5.80	0.1%
-$1.95	-$74.10	$918.00	$656.85	$261.30	-$152.25	$31.05	$12,982.12	$ 8.70	0.1%
	-0.000439	0.005726	0.004155	0.001397	-0.000905	0.000196			
-$0.38	-$12.71	$165.77	$120.29	$40.44	-$26.20	$5.67	$2,684.73	$ (0.81)	0.0%
-$0.50	-$16.95	$221.02	$160.38	$53.92	-$34.93	$7.57	$3,237.27	$ (1.08)	0.0%
-$0.63	-$21.18	$276.28	$200.48	$67.41	-$43.67	$9.46	$3,738.76	$ (1.35)	0.0%
-$0.75	-$25.42	$331.54	$240.57	$80.89	-$52.40	$11.35	$4,240.25	$ (1.63)	0.0%
-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37	$13,285.77	$ (4.05)	0.0%
-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83	$16,054.35	$ (5.40)	0.0%
-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29	$18,561.82	$ (6.76)	0.0%
-$3.76	-$127.09	$1,657.68	$1,202.87	$404.43	-$262.00	$56.74	$21,069.26	$ (8.11)	0.0%
-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37	$12,440.09	$ (4.05)	0.0%
-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83	$15,149.07	$ (5.40)	0.0%
-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29	$17,603.47	$ (6.76)	0.0%
-$3.76	-$127.09	$1,657.68	$1,202.87	$404.43	-$262.00	$56.74	$20,057.83	$ (8.11)	0.0%
-$1.25	-$42.36	$552.56	$400.96	$134.81	-$87.33	$18.91	$7,709.22	$ (2.70)	0.0%
-$1.88	-$63.55	$828.84	$601.44	$202.22	-$131.00	$28.37	$11,059.12	$ (4.05)	0.0%
-$2.51	-$84.73	$1,105.12	$801.92	$269.62	-$174.67	$37.83	$13,733.53	$ (5.40)	0.0%
-$3.14	-$105.91	$1,381.40	$1,002.39	$337.03	-$218.33	$47.29	$16,157.52	$ (6.76)	0.0%
-$0.39	-$13.17	$171.78	$124.65	$41.91	-$27.15	$5.88	$1,852.26	$ (0.84)	0.0%
-$1.95	-$65.85	$858.90	$623.25	$209.55	-$135.75	$29.40	$9,120.06	$ (4.20)	0.0%
-$3.90	-$131.70	$1,717.80	$1,246.50	$419.10	-$271.50	$58.80	$18,204.80	$ (8.40)	0.0%
-$0.91	-$30.73	$400.82	$290.85	$97.79	-$63.35	$13.72	$5,910.97	$ (1.96)	0.0%
-$1.04	-$35.12	$458.08	$332.40	$111.76	-$72.40	$15.68	$6,560.66	$ (2.24)	0.0%
-$1.17	-$39.51	$515.34	$373.95	$125.73	-$81.45	$17.64	$7,210.36	$ (2.52)	0.0%
-$0.26	-$8.78	$114.52	$83.10	$27.94	-$18.10	$3.92	$1,592.90	$ (0.56)	0.0%
-$0.33	-$10.98	$143.15	$103.88	$34.93	-$22.63	$4.90	$1,885.99	$ (0.70)	0.0%
-$0.39	-$13.17	$171.78	$124.65	$41.91	-$27.15	$5.88	$2,179.10	$ (0.84)	0.0%
	-0.000386	0.005319	0.003300	0.001344	-0.000792	0.000156			
-$3.14	-$93.12	$1,283.21	$796.13	$324.24	-$191.07	$37.64	$23,335.05	$ (5.31)	0.0%
-$4.39	-$130.37	$1,796.49	$1,114.58	$453.94	-$267.50	$52.69	$28,815.86	$ (7.43)	0.0%
-$5.65	-$167.62	$2,309.78	$1,433.03	$583.63	-$343.93	$67.74	$33,582.74	$ (9.55)	0.0%
-$6.90	-$204.87	$2,823.06	$1,751.48	$713.33	-$420.35	$82.80	$36,222.61	$ (11.68)	0.0%
-$8.15	-$242.12	$3,336.34	$2,069.93	$843.02	-$496.78	$97.85	$38,862.45	$ (13.80)	0.0%
-$11.29	-$335.24	$4,619.55	$2,866.05	$1,167.26	-$687.85	$135.49	$63,045.67	$ (19.11)	0.0%
-$13.80	-$409.74	$5,646.12	$3,502.95	$1,426.66	-$840.71	$165.59	$68,225.02	$ (23.35)	0.0%
-$16.31	-$484.24	$6,672.69	$4,139.85	$1,686.05	-$993.56	$195.70	$73,404.37	$ (27.60)	0.0%
-$56.45	-$1,676.21	$23,097.76	$14,330.25	$5,836.32	-$3,439.26	$677.43	$286,990.00	$ (95.54)	0.0%
-$69.00	-$2,048.70	$28,230.59	$17,514.75	$7,133.28	-$4,203.54	$827.97	$312,606.89	$ (116.77)	0.0%
-$81.54	-$2,421.19	$33,363.43	$20,699.25	$8,430.24	-$4,967.82	$978.51	$338,223.78	$ (138.00)	0.0%
-$56.45	-$1,676.21	$23,097.76	$14,330.25	$5,836.32	-$3,439.26	$677.43	$284,592.35	$ (95.54)	0.0%
-$69.00	-$2,048.70	$28,230.59	$17,514.75	$7,133.28	-$4,203.54	$827.97	$310,035.54	$ (116.77)	0.0%
-$81.54	-$2,421.19	$33,363.43	$20,699.25	$8,430.24	-$4,967.82	$978.51	$335,478.73	$ (138.00)	0.0%
	-0.000476	0.005981	0.004952	0.001924	-0.000977	0.000234			
-$0.03	-$1.19	$14.95	$12.38	$4.81	-$2.44	$0.59	$257.15	$ (3.04)	-1.2%
-$0.13	-$4.76	$59.81	$49.52	$19.24	-$9.77	$2.34	$964.63	$ (12.18)	-1.2%
-$0.23	-$8.33	$104.67	$86.66	$33.67	-$17.10	$4.10	$1,672.14	$ (21.31)	-1.3%

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total	Proposed Bill	Bill Increase	% Change

Indiana Michigan Power Company - Indiana
Typical Electric Bill Comparison

Environmental Compliance Cost Rider Total	Off-System Sales Margin Sharing Rider Total	PJM Cost Rider Total	Life Cycle Management Rider Total	Federal Mandate Rider Total	Depreciation Credit Rider Total	Solar Power Rider Total	Proposed Bill	Bill Increase	% Change
	-0.000362	0.005154	0.003313	0.001422	-0.000746	0.000157			
-$0.07	-$1.81	$25.77	$16.57	$7.11	-$3.73	$0.79	$370.80	$ (3.29)	-0.9%
-$0.26	-$7.24	$103.08	$66.26	$28.44	-$14.92	$3.14	$1,445.25	$ (13.14)	-0.9%
-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85	$3,594.15	$ (32.85)	-0.9%
-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85	$3,358.45	$ (32.85)	-1.0%
-$4.55	-$126.70	$1,803.90	$1,159.55	$497.70	-$261.10	$54.95	$23,176.45	$ (229.95)	-1.0%
-$8.45	-$235.30	$3,350.10	$2,153.45	$924.30	-$484.90	$102.05	$42,994.45	$ (427.05)	-1.0%
-$0.65	-$18.10	$257.70	$165.65	$71.10	-$37.30	$7.85	$2,993.45	$ (32.85)	-1.1%
-$4.55	-$126.70	$1,803.90	$1,159.55	$497.70	-$261.10	$54.95	$20,621.45	$ (229.95)	-1.1%
-$8.45	-$235.30	$3,350.10	$2,153.45	$924.30	-$484.90	$102.05	$38,249.45	$ (427.05)	-1.1%
-$0.07	-$1.81	$25.77	$16.57	$7.11	-$3.73	$0.79	$315.34	$ (3.29)	-1.0%
-$0.26	-$7.24	$103.08	$66.26	$28.44	-$14.92	$3.14	$1,219.79	$ (13.14)	-1.1%
	-0.000437	0.005687	0.002477	0.000888	-0.000894	0.000117			
-$0.01	-$0.44	$5.69	$2.48	$0.89	-$0.89	$0.12	$191.09	$ 25.23	15.2%
-$0.03	-$1.09	$14.22	$6.19	$2.22	-$2.24	$0.29	$477.70	$ 63.06	15.2%
-$0.05	-$1.75	$22.75	$9.91	$3.55	-$3.58	$0.47	$764.32	$ 100.89	15.2%
	-0.000556	0.006578	0.006843	0.003077	-0.001143	0.000323			
-$0.03	-$1.11	$13.16	$13.69	$6.15	-$2.29	$0.65	$244.32	$ (2.32)	-0.9%
-$0.07	-$2.78	$32.89	$34.22	$15.39	-$5.72	$1.62	$593.98	$ (5.82)	-1.0%
-$0.10	-$4.45	$52.62	$54.74	$24.62	-$9.14	$2.58	$943.63	$ (9.32)	-1.0%

Inputs in Green	Only update with a new Tariff book

Fuel Adjustment Rider	-0.001427 $/kWh	Good through September 2016
Commencing with the first billing cycle in the month of April 2016		

Capacity Settlement Rider (CSR)

Tariff Class	$/kWh	$/kVA or $/kW
RS, RS-TOD, RS-TOD2 and RS-OPES	0.002624	--
GS, GS-TOD, GS-LM-TOD and GS-TOD2	0.002146	--
LGS and LGS-TOD	--	0.699
LGS-LM-TOD	0.001912	--
IP and CS-IRP2	--	0.761
MS	0.002064	--
WSS	0.001576	--
IS	0.001884	--
EHG	0.002415	--
OL	0.000902	--
SLS, ECLS, SLC, SLCM and FW-SL	0.000825	--
Commencing with the first billing cycle in the month of July 2016		

Clean Coal Techonology Rider (CCTR)

Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.000503
GS, GS-TOD and GS-TOD2	0.000378
LGS and LGS-TOD	0.000358
IP, CS-IRP and CS-IRP2	0.000285
MS	0.000427
WSS	0.000286
IS	0.000213
EHG	0.000590
OL	0.000165
SLS, ECLS, SLC, SLCM AND FW-SL	0.000149
Commencing with the first billing cycle in the month of July 2016	

Demand-Side management Rider	Non-Opt Out Customers Group N
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.006753
GS (Excluding Unmetered), GS-TOD and GS-TOD2	0.014387
LGS and LGS-TOD	0.000788
IP, CS-IRP and CS-IRP2	0.000062
MS	0.007512
WSS	0.002907
IS	0.036233
EHG	0.015732
Commencing with the first billing cycle in the month of August 2016	

Environmental Comp.	-0.000013 $/kWh
Commencing with the first billing cycle in the month of May 2016	

Off-Systems Sales Margin Sharing rider

Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	-0.000604
GS, GS-TOD and GS-TOD2	-0.000494
LGS and LGS-TOD	-0.000439
IP, CS-IRP and CS-IRP2	-0.000386
MS	-0.000476
WSS	-0.000362
IS	-0.000437
EHG	-0.000556
OL	-0.000207
SLS, ECLS, SLC, SLCM and FW-SL	-0.000190
Commencing with the first billing cycle in the month of January 2016	

PJM Cost Rider	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.006929
GS, GS-TOD and GS-TOD2	0.006120
LGS and LGS-TOD	0.005726
IP, CS-IRP and CS-IRP2	0.005319
MS	0.005981
WSS	0.005154
IS	0.005687
EHG	0.006578
OL	0.004011
SLS, ECLS, SLC, SLCM and FW-SL	0.003879
Commencing with the first billing cycle in the month of January 2016	

Life Cycle Management Rider (LCMR)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.005831
GS (Excluding Unmetered), GS-TOD and GS-TOD2	0.004379
LGS and LGS-TOD	0.004155
IP and CS-IRP2	0.003300
MS	0.004952
WSS	0.003313
IS	0.002477
EHG	0.006843
OL	0.001919
SLS, ECLS, SLC, SLCM AND FW-SL	0.001731
Commencing with the first billing cycle in the month of July 2016	

Federal Mandate rider (FMR)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.002067
GS, GS-TOD and GS-TOD2	0.001742
LGS and LGS-TOD	0.001397
IP and CS-IRP2	0.001344
MS	0.001924
WSS	0.001422
IS	0.000888
EHG	0.003077
OL	0.001361
SLS, ECLS, SLC, SLCM AND FW-SL	0.001270
Commencing with the first billing cycle in the month of May 2016	

Depreciation Credit (DC)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	-0.001242
GS, GS-TOD and GS-TOD2	-0.001015
LGS and LGS-TOD	-0.000905
IP and CS-IRP2	-0.000792
MS	-0.000977
WSS	-0.000746
IS	-0.000894
EHG	-0.001143
OL	-0.000427
SLS, ECLS, SLC, SLCM AND FW-SL	-0.000390
Effective for electric service rendered on and after June 1, 2015	

Solar Power Rider	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.000275
GS, GS-TOD and GS-TOD2	0.000207
LGS and LGS-TOD	0.000196
IP and CS-IRP2	0.000156
MS	0.000234
WSS	0.000157
IS	0.000117
EHG	0.000323
OL	0.000091
SLS, ECLS, SLC, SLCM AND FW-SL	0.000082
Commencing with the first billing cycle in the month of August 2016	

Inputs in Green	Update proposed rider rate only

Fuel Adjustment Rider	-0.001427 $/kWh	Good through September 2016
Commencing with the first billing cycle in the month of April 2016		

Capacity Settlement Rider (CSR)		
Tariff Class	$/kWh	$/kVA or $/kW
RS, RS-TOD, RS-TOD2 and RS-OPES	0.002624	--
GS, GS-TOD, GS-LM-TOD and GS-TOD2	0.002146	--
LGS and LGS-TOD	--	0.699
LGS-LM-TOD	0.001912	--
IP and CS-IRP2	--	0.761
MS	0.002064	--
WSS	0.001576	--
IS	0.001884	--
EHG	0.002415	--
OL	0.000902	--
SLS, ECLS, SLC, SLCM and FW-SL	0.000825	--
Commencing with the first billing cycle in the month of July 2015		

Clean Coal Techonology Rider (CCTR)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.000503
GS, GS-TOD and GS-TOD2	0.000378
LGS and LGS-TOD	0.000358
IP, CS-IRP and CS-IRP2	0.000285
MS	0.000427
WSS	0.000286
IS	0.000213
EHG	0.000590
OL	0.000165
SLS, ECLS, SLC, SLCM AND FW-SL	0.000149
Commencing with the first billing cycle in the month of July 2016	

Demand-Side management Rider	Non-Opt Out Customers Group N
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.006067
GS (Excluding Unmetered), GS-TOD and GS-TOD2	0.014445
LGS and LGS-TOD	0.000760
IP, CS-IRP and CS-IRP2	0.000040
MS	0.006294
WSS	0.002250
IS	0.061456
EHG	0.014568
Commencing with the first billing cycle in the month of August 2016	

Environmental Comp.	-0.000013 $/kWh
Commencing with the first billing cycle in the month of May 2016	

Off-Systems Sales Margin Sharing rider	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	-0.000604
GS, GS-TOD and GS-TOD2	-0.000494
LGS and LGS-TOD	-0.000439
IP, CS-IRP and CS-IRP2	-0.000386
MS	-0.000476
WSS	-0.000362
IS	-0.000437
EHG	-0.000556
OL	-0.000207
SLS, ECLS, SLC, SLCM and FW-SL	-0.000190
Commencing with the first billing cycle in the month of January 2016	

PJM Cost Rider	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.006929
GS, GS-TOD and GS-TOD2	0.006120
LGS and LGS-TOD	0.005726
IP, CS-IRP and CS-IRP2	0.005319
MS	0.005981
WSS	0.005154
IS	0.005687
EHG	0.006578
OL	0.004011
SLS, ECLS, SLC, SLCM and FW-SL	0.003879
Commencing with the first billing cycle in the month of January 2016	

Life Cycle Management Rider (LCMR)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.005831
GS (Excluding Unmetered), GS-TOD and GS-TOD2	0.004379
LGS and LGS-TOD	0.004155
IP and CS-IRP2	0.003300
MS	0.004952
WSS	0.003313
IS	0.002477
EHG	0.006843
OL	0.001919
SLS, ECLS, SLC, SLCM AND FW-SL	0.001731
Commencing with the first billing cycle in the month of July 2016	

Federal Mandate rider (FMR)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.002067
GS, GS-TOD and GS-TOD2	0.001742
LGS and LGS-TOD	0.001397
IP and CS-IRP2	0.001344
MS	0.001924
WSS	0.001422
IS	0.000888
EHG	0.003077
OL	0.001361
SLS, ECLS, SLC, SLCM AND FW-SL	0.001270
Commencing with the first billing cycle in the month of May 2016	

Depreciation Credit (DC)	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	-0.001242
GS, GS-TOD and GS-TOD2	-0.001015
LGS and LGS-TOD	-0.000905
IP and CS-IRP2	-0.000792
MS	-0.000977
WSS	-0.000746
IS	-0.000894
EHG	-0.001143
OL	-0.000427
SLS, ECLS, SLC, SLCM AND FW-SL	-0.000390
Effective for electric service rendered on and after June 1, 2015	

Solar Power Rider	
Tariff Class	$/kWh
RS, RS-TOD, RS-TOD2 and RS-OPES	0.000275
GS, GS-TOD and GS-TOD2	0.000207
LGS and LGS-TOD	0.000196
IP and CS-IRP2	0.000156
MS	0.000234
WSS	0.000157
IS	0.000117
EHG	0.000323
OL	0.000091
SLS, ECLS, SLC, SLCM AND FW-SL	0.000082
Commencing with the first billing cycle in the month of August 2016	

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Program Summary

Attachment JCW-2
Cause No. 44841

	DSM Plan Direct Program*	Program Description	2017 Program Operating Budget ($)	2017 Energy Savings (kWh)	2017 Demand Savings (kW)	2018 Program Operating Budget ($)	2018 Energy Savings (kWh)	2018 Demand Savings (kW)	2019 Program Operating Budget ($)	2019 Energy Savings (kWh)	2019 Demand Savings (kW)	Average Annual Cost of Conserved Energy ($/kwh)	Lifetime Cost of Conserved Energy ($/kwh)	3 Yr. Net Savings (kWh)	3 Yr. Program Operating Budget ($)	3 Yr. Gross Energy Savings (kWh)	3 Yr. Gross Demand Savings (kW)
EE Programs	Home Energy Products	Rebates for efficient residential lighting & other electro-technologies	1,863,726	13,132,892	1,965	1,635,506	10,796,000	1,628	1,383,572	8,901,438	1,354	0.15	0.01	19,371,252	4,882,804	32,830,330	4,947
	Income Qualified Weatherproofing	Low Income home weatherization & efficiency	571,039	724,847	72	571,039	734,847	72	571,039	744,847	72	0.78	0.06	2,204,541	1,713,117	2,204,541	217
	Schools Energy Education	Energy education for elementary age children with take home kits	662,354	3,179,000	880	662,354	3,179,000	880	662,354	3,179,000	880	0.21	0.02	6,580,530	1,987,062	9,537,000	2,640
	Home Appliance Recycling	Rebates for pick up, and recycling of refrigerators and freezers	594,990	3,348,400	400	594,990	3,348,400	400	594,990	3,348,400	400	0.18	0.02	5,424,408	1,784,969	10,045,200	1,199
	Home New Construction	Rebates for efficient new home construction	470,227	808,221	208	497,933	851,741	234	497,933	851,741	234	0.58	0.02	1,934,011	1,466,093	2,511,702	677
	Home Weatherproofing	Walk through audit with rebates for home weatherization & efficiency	518,143	1,129,074	103	518,143	1,129,074	103	518,143	1,129,074	103	0.46	0.03	2,811,393	1,554,429	3,387,221	309
	Home Energy Engagement	Home consumption comparison reports; online audit tool	2,175,592	40,900,405	4,514	2,240,418	41,190,745	4,562	2,382,110	41,629,375	4,619	0.05	0.05	121,657,120	6,798,120	123,720,525	13,695
	Work Prescriptive Rebates	Rebates for efficient lighting, efficient motors, etc.	3,429,980	29,042,325	5,765	2,792,166	22,877,500	4,573	2,052,416	16,665,000	3,373	0.12	0.01	61,040,494	8,274,562	68,584,825	13,712
	Work Custom Rebates	Rebates for custom C&I efficiency improvements	3,852,933	38,418,023	7,252	3,223,543	29,458,023	5,817	3,066,780	27,648,023	5,489	0.11	0.01	88,837,383	10,143,256	95,524,068	18,559
	Work Direct Install	Online & Walk through audits plus direct install cost effective measures for small business customers	437,543	1,999,500	267	416,489	1,799,550	241	395,435	1,599,600	214	0.23	0.02	5,344,663	1,249,467	5,398,650	722
	Public Efficient Streetlighting	Upgrade existing inefficient streetlighting with LED streetlighting	1,872,655	5,521,964	0	1,872,655	5,521,964	0	1,872,655	5,521,964	0	0.34	0.02	16,565,892	5,617,964	16,565,892	0
	EE Programs Total		**16,449,182**	**138,204,650**	**21,428**	**15,025,235**	**120,886,843**	**18,509**	**13,997,426**	**111,218,461**	**16,739**	**0.12**	**0.01**	**331,771,688**	**45,471,843**	**370,309,954**	**56,675**
DSM Programs	Home Energy Management	Active residential load management	2,495,536	2,389,500	5,974	2,016,096	4,400,500	11,001	1,720,377	6,411,500	16,029	0.47	0.03	7,788,885	6,232,009	13,201,500	33,004
	Work Energy Management	Active C&I load management	752,632	1,968,753	3,333	1,571,647	5,911,740	10,000	1,744,388	5,911,740	10,000	0.29	0.058	13,792,233	4,068,667	13,792,233	23,333
	Electric Energy Consumption Optimization (EECO)	Utility distribution voltage control program to optimize & reduce end use consumption	1,172,060	14,889,034	4,631	1,678,290	19,272,356	6,634	2,285,574	24,942,364	8,725	0.09	0.009	59,103,753	5,135,924	59,103,753	19,991
	DSM Programs Total		**4,420,228**	**19,247,287**	**13,938**	**5,266,032**	**29,584,596**	**27,635**	**5,750,339**	**37,265,604**	**34,754**	**0.18**	**0.01**	**66,892,638**	**15,436,599**	**86,097,486**	**76,328**
	Portfolio Totals		**20,869,410**	**157,451,938**	**35,366**	**20,291,268**	**150,471,438**	**46,145**	**19,747,765**	**148,484,064**	**51,493**	**0.13**	**0.01**	**398,664,326**	**60,908,443**	**456,407,441**	**133,003**

Portfolio Level Operating Costs (Indirect Operating Costs)			
DSM Database & IT Support	$200,000	$200,000	$200,000
Staff Development & Memberships	$45,000	$45,000	$45,000
Portfolio Marketing & Customer Awareness	$100,000	$100,000	$100,000
Planning & Analytic Support	$125,000	$125,000	$125,000
Program Development	$50,000	$50,000	$50,000
Administrative Support	$325,000	$325,000	$325,000
Customer Engagement Platforms (IM HOME, IM WORK)	$250,000	$400,000	$500,000
Customer Energy Information & Messaging	$150,000	$150,000	$150,000
Total Portfolio Level Operating Costs	$1,245,000	$1,395,000	$1,495,000
Total I&M Indiana DSM Plan Portfolio Operating Budget	**$22,114,410**	**$21,686,268**	**$21,242,765**
Count of Direct Programs	**14**	**14**	**14**
DSM Plan Energy Savings as % I&M IN Utility kWh Sales	0.92%	0.88%	0.87%
DSM Plan Operating Cost as % of I&M IN Utility Revenues**	1.78%	1.74%	1.71%
DSM Plan Program Operating Cost	$22,114,410	$21,686,268	$21,242,765
DSM Plan Energy Savings (kWh)	157,451,938	150,471,438	148,484,064
DSM Plan Operating Cost (cents/kwh saved)	$0.14	$0.14	$0.14

Residential	12,747,477	12,650,977	12,875,899
C&I	9,366,933	9,035,291	8,366,867
Check Total	0	0	0

Non-Behavior Measure NTG	**80%**
All Measures NTG	**87%**

* Costs shown in table reflect the Direct costs of the programs and EM&V costs; the indirect costs are summarized below the table and referred to as "Portfolio level" costs.
**I&M Indiana 2015 Forecast

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
Integrated Resource Plan (IRP) Timeline & DSM/EE Selection

Attachment JCW-3
Cause No. 44841

Integrated Resource Plan (IRP)			2015 IRP Optimal Resource Selection--Preferred Option Portfolio							
				At the Generator		IRP Incremental Savings Reflected At the Meter				
IRP Filing Timeline	IRP Vintage Applicable	IRP Forecast Year	IN Portion of I&M Forecast Retail Sales	I&M Incremental DSM/EE Net Energy Savings (kWh)	I&M Incremental DSM/EE Net Demand Savings (kW)	IN Portion of I&M Incremental DSM/EE Net Energy Savings (kWh)	IN Portion of I&M Incremental DSM/EE Net Demand Savings (kW)	2017 - 2019 Indiana DSM Plan Portfolio Net-to-Gross Ratio Proxy	Incremental DSM/EE Gross Energy Savings (kWh)	Incremental DSM/EE Gross Demand Savings (kW)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	2015 IRP	2017	66.73%	194,060,820	30,747	129,496,785	20,517	87%	148,253,286	23,489
File Next I&M IRP 11-1-18	2015 IRP	2018	68.13%	174,559,000	7,933	111,831,193	5,040	80%	140,464,864	6,330
2018 IRP 150 Day Comment Period	2015 IRP	2019	68.09%	174,559,000	7,933	111,765,536	5,037	80%	140,382,396	6,327
1st Yr. After 2018 IRP Filed: 2019	2018 IRP	2020	NA	NA	NA	NA	NA	NA	NA	NA

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Program Tables

3 Year DSM Program Forecast Goals & Budgets

EE Programs

Work Prescriptive Rebates	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Support		$653,452	$514,744	$374,963
Implementation & Other Annual Cost		$40,645	$40,645	$40,645
Outreach & Coordination		$145,842	$145,842	$145,842
EM&V		$97,547	$97,547	$97,547
Rebate Processing		$34,575	$19,738	$17,872
Total Fixed		$972,061	$818,516	$676,869
Variable Program Operating Costs				
Customer Incentives	$0.08	$2,406,485	$1,933,134	$1,346,033
Delivery & Other	$0.0018	$51,434	$40,516	$29,514
Total Budget	$0.12	$3,429,980	$2,792,166	$2,052,416
Energy Savings (kWh)		29,042,325	22,877,500	16,665,000
Demand Savings (kW)		5,765	4,573	3,373
Participation		4,178	2,385	2,160

Work Direct Install	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Support		$132,000	$132,000	$132,000
Implementation & Other Annual Cost		$25,000	$25,000	$25,000
Outreach & Coordination		$30,000	$30,000	$30,000
EM&V		$40,000	$40,000	$40,000
Rebate Processing		$1,370	$1,233	$1,096
Total Fixed		$228,370	$228,233	$228,096
Variable Program Operating Costs				
Customer Incentives	$0.101	$201,175	$181,057	$160,940
Delivery & Other	$0.004	$7,998	$7,198	$6,398
Total Budget	$0.22	$437,543	$416,489	$395,435
Energy Savings (kWh)		1,999,500	1,799,550	1,599,600
Demand Savings (kW)		267	241	214
Participation		116	104	93

Work Custom Rebates	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Support		$700,000	$700,000	$700,000
Implementation & Other Annual Cost		$21,083	$21,083	$21,083
Outreach & Coordination		$194,408	$194,408	$194,408
EM&V		$100,000	$100,000	$100,000
Rebate Processing		$2,099	$1,478	$1,330
Total Fixed		$1,017,589	$1,016,969	$1,016,821
Variable Program Operating Costs				
Customer Incentives	$0.070	$2,700,881	$2,103,471	$1,953,191
Delivery & Other	$0.0035	$134,463	$103,103	$96,768
Total Budget	$0.10	$3,852,933	$3,223,543	$3,066,780
Energy Savings (kWh)		38,418,023	29,458,023	27,648,023
Demand Savings (kW)		7,252	5,817	5,489
Participation		355	250	225

Public Efficient Streetlighting	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$0	$0	$0
Impl & Other Annual		$10,000	$10,000	$10,000
Program Coordination		$48,000	$48,000	$48,000
EM&V		$35,581	$35,581	$35,581
Total Fixed		$93,581	$93,581	$93,581
Variable Program Operating Costs				
Customer Incentives	$0.32	$1,779,074	$1,779,074	$1,779,074
Delivery & Other	$0.00	$0	$0	$0
Total Budget	$0.34	$1,872,655	$1,872,655	$1,872,655
Energy Savings (kWh)		5,521,964	5,521,964	5,521,964
Demand Savings (kW)		0	0	0
Participants (# Streetlights)		10,369	10,369	10,369

Home Weatherproofing	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
I&M Marketing, Rebate Processing, Othe		$22,746	$22,746	$22,746
I&M Auditor		$82,231	$82,231	$82,231
Program Coordination		$40,238	$40,238	$40,238
EM&V		$38,000	$38,000	$38,000
Total Fixed		$183,214	$183,214	$183,214
Variable Program Operating Costs				
Customer Incentives	$0.26	$292,319	$292,319	$292,319
Delivery & Other	$0.18	$42,610	$42,610	$42,610
Total Budget	$0.46	$518,143	$518,143	$518,143
Energy Savings (kWh)		1,129,074	1,129,074	1,129,074
Demand Savings (kW)		103	103	103
Participation (# Audits)		350	350	350

Home New Construction	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$91,924	$91,924	$91,924
Rebate Processing & Other Annual Co		$14,493	$14,493	$14,493
Program Coordination		$36,975	$36,975	$36,975
EM&V		$25,000	$25,000	$25,000
Total Fixed		$168,392	$168,392	$168,392
Variable Program Operating Costs				
Customer Incentives	$0.31	$216,164	$243,870	$243,870
Delivery & Other	$0.11	$85,671	$85,671	$85,671
Total Budget	$0.58	$470,227	$497,933	$497,933
Energy Savings (kWh)		808,221	851,741	851,741
Demand Savings (kW)		208	234	234
Participation (# of Homes)		447	445	445

Home Appliance Recycling	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$0	$0	$0
Rebate Processing & Other Annual Cost		$19,500	$19,500	$19,500
Program Coordination		$26,250	$26,250	$26,250
EM&V		$35,000	$35,000	$35,000
Total Fixed		$80,750	$80,750	$80,750
Variable Program Operating Costs				
Customer Incentives	$0.038	$128,560	$128,560	$128,560
Delivery & Other	$0.128	$385,680	$385,680	$385,680
Total Budget	$0.18	$594,990	$594,990	$594,990
Energy Savings (kWh)		3,348,400	3,348,400	3,348,400
Demand Savings (kW)		400	400	400
Participation (Total Units)		3,214	3,214	3,214

Income Qualified Weatherproofing	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
I&M Marketing, Rebate Processing, O		$46,556	$46,556	$46,556
I&M Auditor		$69,082	$69,082	$69,082
Program Coordination & Outreach		$77,200	$77,200	$77,200
EM&V		$70,000	$70,000	$70,000
Total Fixed		$262,839	$262,839	$262,839
Variable Program Operating Costs				
Customer Incentives	$0.43	0	0	0
Delivery & Other	$0.14	$308,200	$308,200	$308,200
Total Budget	$0.79	$571,039	$571,039	$571,039
Energy Savings (kWh)		724,847	734,847	744,847
Demand Savings (kW)		72	72	72
Participation		2,650	2,650	2,650

Home Energy Products-Products Component	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$0	$0	$0
Implementation & Other Annual Cos		$79,500	$79,500	$79,500
Program Coordination		$40,800	$40,800	$40,800
EM&V		$15,000	$15,000	$15,000
Total Fixed		$135,300	$135,300	$135,300
Variable Program Operating Costs				
Customer Incentives	$0.14	$188,025	$179,805	$179,805
Delivery & Other	$0.06	$43,712	$43,712	$43,712
Total Budget	$0.47	$367,037	$358,817	$358,817
Energy Savings (kWh)		774,354	774,354	774,354
Demand Savings (kW)		183	183	183
Participation (# Measures)		1,100	1,100	1,100

Home Energy Products--Lighting Component	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$111,227	$111,227	$111,227
Implementation & Other Annual Cos		$39,500	$39,500	$39,500
Program Coordination		$20,400	$20,400	$20,400
EM&V		$50,000	$50,000	$50,000
Total Fixed		$221,127	$221,127	$221,127
Variable Program Operating Costs				
Customer Incentives	$0.0942	$1,164,335	$944,335	$692,402
Delivery & Other	$0.009	$111,227	$111,227	$111,227
Total Budget	$0.12	$1,496,689	$1,276,689	$1,024,755
Energy Savings (kWh)		12,358,538	10,021,646	8,127,084
Demand Savings (kW)		1,782	1,445	1,171
Participation (# Bulbs)		465,734	377,734	307,734

Home Energy Engagement	Per Unit Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$1,219,581	$1,333,167	$1,503,184
Implementation & Other Annual Cos		$20,000	$20,000	$20,000
Program Coordination		$75,000	$75,000	$75,000
EM&V		$80,000	$80,000	$80,000
Total Fixed		$1,394,581	$1,508,167	$1,678,184
Variable Program Operating Costs				
Customer Incentives	$0.000	$0	$0	$0
Delivery & Other	$0.018	$781,011	$732,251	$703,926
Total Budget	$0.05	$2,175,592	$2,240,418	$2,382,110
Energy Savings (kWh)		40,900,405	41,190,745	41,629,375
Demand Savings (kW)		4,514	4,562	4,619
Participants		233,738	232,825	232,368

Schools Energy Education	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$0	$0	$0
Implementation & Other Annual Cos		$19,304	$19,304	$19,304
Program Coordination		$18,000	$18,000	$18,000
EM&V		$25,000	$25,000	$25,000
Total Fixed		$62,304	$62,304	$62,304
Variable Program Operating Costs				
Customer Incentives	$0.10	$0	$0	$0
Delivery & Other	$0.06	$600,050	$600,050	$600,050
Total Budget	$0.21	$662,354	$662,354	$662,354
Energy Savings (kWh)		3,179,000	3,179,000	3,179,000
Demand Savings (kW)		880	880	880
Participation		11,000	11,000	11,000

DSM Programs

Work Energy Management	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed Capital Cost		$3,625,556	$3,324,444	$0
Return Of and On I&M Assets		$169,560	$862,270	$1,018,083
Program Coordination		$75,200	$75,200	$75,200
EM&V		$21,500	$22,145	$22,790
Total Fixed & Associated Costs		$266,260	$959,615	$1,116,073
Variable Program Operating Costs				
Customer Incentives	$0.03	$56,372	$169,132	$172,515
Delivery & Other	$0.10	$430,000	$442,900	$455,800
Total Budget	$0.29	$752,632	$1,571,647	$1,744,388
Energy Savings (kWh)		1,968,753	5,911,740	5,911,740
Demand Savings (kW)		3,333	10,000	10,000
Participants		19	57	57

Home Energy Management	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Vendor Fixed		$0	$0	$0
Marketing		$13,384	$17,468	$8,168
Program Coordination		$100,000	$100,000	$100,000
EM&V		$50,000	$50,000	$50,000
Total Fixed		$163,384	$167,468	$158,168
Variable Program Operating Costs				
Customer Incentives	$0.13	$735,399	$494,093	$536,088
Delivery & Other	$0.30	$1,596,753	$1,354,535	$1,026,122
Total Budget	$0.47	$2,495,536	$2,016,096	$1,720,377
Energy Savings (kWh)		2,389,500	4,400,500	6,411,500
Demand Savings (kW)		5,974	11,001	16,029
Participants		4,779	8,801	12,823

EECO	Per KWH Rate	2017	2018	2019
Fixed Program Operating Costs				
Fixed Capital Cost		$6,566,043	$4,501,665	$5,085,990
Return Of and On I&M Assets		$715,927	$1,158,457	$1,560,295
Program Coordination		$96,000	$96,000	$96,000
EM&V		$90,033	$105,958	$157,320
Total Fixed & Associated Costs		$901,960	$1,360,415	$1,813,615
Variable Program Operating Costs				
Customer Incentives	$0.00	$0	$0	$0
Delivery & Other	$0.02	$270,100	$317,874	$471,959
Total Budget	$0.09	$1,172,060	$1,678,290	$2,285,574
Energy Savings (kWh)		14,889,034	19,272,356	24,942,364
Demand Savings (kW)		4,631	6,634	8,725
Participants		45,847	60,542	80,939

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM Plan Goals Versus IRP Summary

Attachment JCW-5
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	IRP		3 Year Plan EE Programs			3 Year Plan Other DSM Programs			3 Year DSM Plan Total		
	Gross Energy Savings (kWh)	Gross Demand Savings (kW)	Direct Program Cost ($)	Program Energy Savings (kWh)	Program Demand Savings (kW)	Direct Program Cost ($)	Program Energy Savings (kWh)	Program Demand Savings (kW)	Direct Program Cost ($)	Program Energy Savings (kWh)	Program Demand Savings (kW)
2017	148,253,286	23,489	16,449,182	138,204,650	21,428	4,420,228	19,247,287	13,938	20,869,410	157,451,938	35,366
2018	140,464,864	6,330	15,025,235	120,886,843	18,509	5,266,032	29,584,596	27,635	20,291,268	150,471,438	46,145
2019	140,382,396	6,327	13,997,426	111,218,461	16,739	5,750,339	37,265,604	34,754	19,747,765	148,484,064	51,493
Total	**429,100,546**	**36,146**	**45,471,843**	**370,309,954**	**56,675**	**15,436,599**	**86,097,486**	**76,328**	**60,908,443**	**456,407,441**	**133,003**

	DSM Plan Budget Summary ($)		
	Direct Operating Cost ($)	Indirect Operating Cost ($)	Total Operating Cost ($)
2017	20,869,410	1,245,000	22,114,410
2018	20,291,268	1,395,000	21,686,268
2019	19,747,765	1,495,000	21,242,765
Total	**60,908,443**	**4,135,000**	**65,043,443**

IRP Versus DSM Plan Summary		
	IRP Savings (% of I&M IN Retail Sales)	DSM Plan Savings (% of I&M IN Retail Sales)
2017	0.87%	0.92%
2018	0.82%	0.88%
2019	0.83%	0.87%
3 Year Average	**0.84%**	**0.89%**

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
I&M DSM Plan - 3 Year Benefit Cost Analysis

Attachment JCW-6 Revised
Cause No. 44841

Energy Efficiency (EE)	UCT	TRC	RIM	Participant	UCT Benefits	UCT Costs	UCT Net Benefits	TRC Benefits	TRC Costs	TRC Net Benefits	RIM Benefits	RIM Costs	RIM Net Benefits	Participant Benefits	Participant Costs	Participant Net Benefits
Residential																
Home Energy Products	2.44	1.89	0.58	3.99	$11,967,613	$4,913,823	$7,053,790	$11,967,613	$6,333,527	$5,634,086	$11,967,613	$20,667,656	($8,700,043)	$22,114,144	$5,545,505	$16,568,639
Income Qualified Weatherproofing	0.81	0.81	0.39	N/A	$1,380,423	$1,711,381	($330,958)	$1,380,423	$1,711,381	($330,958)	$1,380,423	$3,555,097	($2,174,674)	$1,159,263	$0	$1,159,263
School Education	2.37	2.37	0.68	N/A	$4,710,522	$1,989,196	$2,721,326	$4,710,522	$1,989,196	$2,721,326	$4,710,522	$6,918,330	($2,207,808)	$5,013,530	$0	$5,013,530
Home Appliance Recycling	1.31	1.31	0.47	N/A	$2,335,863	$1,789,829	$546,034	$2,335,863	$1,789,829	$546,034	$2,335,863	$4,941,886	($2,606,023)	$4,446,418	$0	$4,446,418
Home New Construction	1.65	1.21	0.62	1.85	$2,418,127	$1,467,462	$950,666	$2,418,127	$1,998,368	$419,760	$2,418,127	$3,900,087	($1,481,959)	$2,320,882	$1,255,337	$1,065,545
Home Weatherproofing	1.48	1.25	0.50	2.60	$2,307,780	$1,562,272	$745,508	$2,307,780	$1,852,569	$455,211	$2,307,780	$4,619,376	($2,311,596)	$2,731,108	$1,050,302	$1,680,806
Home Energy Engagement	3.34	3.34	0.69	N/A	$22,638,839	$6,781,188	$15,857,651	$22,638,839	$6,781,188	$15,857,651	$22,638,839	$32,731,739	($10,092,900)	$22,767,640	$0	$22,767,640
Residential Portfolio	**2.36**	**2.13**	**0.62**	**N/A**	**$47,759,168**	**$20,215,152**	**$27,544,016**	**$47,759,168**	**$22,456,059**	**$25,303,109**	**$47,759,168**	**$77,334,171**	**($29,575,004)**	**$60,552,986**	**$7,851,145**	**$52,701,842**
Commercial & Industrial																
Work Prescriptive Rebates	5.72	2.74	0.83	2.74	$47,784,071	$8,359,931	$39,424,140	$47,784,071	$17,421,541	$30,362,530	$47,784,071	$57,721,415	($9,937,344)	$40,491,447	$14,784,074	$25,707,373
Work Custom Rebates	4.87	2.97	0.82	3.49	$50,098,536	$10,282,779	$39,815,757	$50,098,536	$16,874,948	$33,223,588	$50,098,536	$61,141,227	($11,042,691)	$44,340,248	$12,707,548	$31,632,700
Work Direct Install	2.78	1.43	0.70	1.87	$3,469,235	$1,247,762	$2,221,473	$3,469,235	$2,419,701	$1,049,535	$3,469,235	$4,950,722	($1,481,487)	$2,978,071	$1,595,767	$1,382,304
C&I Portfolio	**5.10**	**2.76**	**0.82**	**3.02**	**$101,351,842**	**$19,890,472**	**$81,461,370**	**$101,351,842**	**$36,716,190**	**$64,635,652**	**$101,351,842**	**$123,813,364**	**($22,461,521)**	**$87,809,766**	**$29,087,389**	**$58,722,377**
Public																
Public Efficient Streetlighting	2.16	2.16	0.53	N/A	$12,164,406	$5,631,616	$6,532,790	$12,164,406	$5,631,616	$6,532,790	$12,164,406	$22,978,407	($10,814,001)	$9,963,621	$0	$9,963,621
EE Portfolio	**3.53**	**2.49**	**0.72**	**N/A**	**$161,275,416**	**$45,737,240**	**$115,538,175**	**$161,275,416**	**$64,803,866**	**$96,471,550**	**$161,275,416**	**$224,125,942**	**($62,850,526)**	**$158,326,374**	**$36,938,534**	**$121,387,840**
Demand Side Management (DSM)																
Home Energy Management	3.24	3.69	2.18	3.04	$23,681,059	$7,309,818	$16,371,241	$23,681,059	$6,426,293	$17,254,766	$23,681,059	$10,851,109	$12,829,950	$6,029,070	$1,980,580	$4,048,490
Work Energy Management	1.14	1.14	0.86	N/A	$15,486,016	$13,607,672	$1,878,344	$15,486,016	$13,607,672	$1,878,344	$15,486,016	$17,970,154	($2,484,139)	$2,830,595	$0	$2,830,595
Electric Energy Consumption Optimization	1.07	1.07	0.49	1.16	$14,522,958	$13,627,015	$895,943	$14,522,958	$13,627,015	$895,943	$14,522,958	$29,469,929	($14,946,971)	$15,842,914	$13,627,015	$2,215,899
DSM Portfolio	**1.55**	**1.60**	**0.92**	**1.58**	**$53,690,033**	**$34,544,505**	**$19,145,528**	**$53,690,033**	**$33,660,980**	**$20,029,053**	**$53,690,033**	**$58,291,192**	**($4,601,159)**	**$24,702,579**	**$15,607,595**	**$9,094,984**
DSM Plan Portfolio	**2.68**	**2.18**	**0.76**	**N/A**	**$ 214,965,449**	**$80,281,746**	**$ 134,683,703**	**$ 214,965,449**	**$98,464,845**	**$ 116,500,604**	**$214,965,448**	**$282,417,133**	**($67,451,685)**	**$183,028,953**	**$52,546,129**	**$130,482,824**

Attachment JCW-6 Revised
Cause No. 44841

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
I&M DSM Plan - 3 Year Benefit Cost Analysis

Energy Efficiency (EE)	UCT	TRC	RIM	Participant	UCT Benefits	UCT Costs	UCT Net Benefits	TRC Benefits	TRC Costs	TRC Net Benefits	RIM Benefits	RIM Costs	RIM Net Benefits	Participant Benefits	Participant Costs	Participant Net Benefits
Residential																
Home Energy Products	2.44	1.89	0.58	3.99	$11,967,613	$4,913,823	$7,053,790	$11,967,613	$6,333,527	$5,634,086	$11,967,613	$20,667,656	($8,700,043)	$22,114,144	$5,545,505	$16,568,639
Income Qualified Weatherproofing	0.81	0.81	0.39	N/A	$1,380,423	$1,711,381	($330,958)	$1,380,423	$1,711,381	($330,958)	$1,380,423	$3,555,097	($2,174,674)	$1,159,263	$0	$1,159,263
School Education	2.37	2.37	0.68	N/A	$4,710,522	$1,989,196	$2,721,326	$4,710,522	$1,989,196	$2,721,326	$4,710,522	$6,918,330	($2,207,808)	$5,013,530	$0	$5,013,530
Home Appliance Recycling	1.31	1.31	0.47	N/A	$2,335,863	$1,789,829	$546,034	$2,335,863	$1,789,829	$546,034	$2,335,863	$4,941,886	($2,606,023)	$4,446,418	$0	$4,446,418
Home New Construction	1.65	1.21	0.62	1.85	$2,418,127	$1,467,462	$950,666	$2,418,127	$1,998,368	$419,760	$2,418,127	$3,900,087	($1,481,959)	$2,320,882	$1,255,337	$1,065,545
Home Weatherproofing	1.48	1.25	0.50	2.60	$2,307,780	$1,562,272	$745,508	$2,307,780	$1,852,569	$455,211	$2,307,780	$4,619,376	($2,311,596)	$2,731,108	$1,050,302	$1,680,806
Home Energy Engagement	3.34	3.34	0.69	N/A	$22,638,839	$6,781,188	$15,857,651	$22,638,839	$6,781,188	$15,857,651	$22,638,839	$32,731,739	($10,092,900)	$22,767,640	$0	$22,767,640
Residential Portfolio	**2.36**	**2.13**	**0.62**	**N/A**	**$47,759,168**	**$20,215,152**	**$27,544,016**	**$47,759,168**	**$22,456,059**	**$25,303,109**	**$47,759,168**	**$77,334,171**	**($29,575,004)**	**$60,552,986**	**$7,851,145**	**$52,701,842**
Commercial & Industrial																
Work Prescriptive Rebates	5.72	2.74	0.83	2.74	$47,784,071	$8,359,931	$39,424,140	$47,784,071	$17,421,541	$30,362,530	$47,784,071	$57,721,415	($9,937,344)	$40,491,447	$14,784,074	$25,707,373
Work Custom Rebates	4.87	2.97	0.82	3.49	$50,098,536	$10,282,779	$39,815,757	$50,098,536	$16,874,948	$33,223,588	$50,098,536	$61,141,227	($11,042,691)	$44,340,248	$12,707,548	$31,632,700
Work Direct Install	2.78	1.43	0.70	1.87	$3,469,235	$1,247,762	$2,221,473	$3,469,235	$2,419,701	$1,049,535	$3,469,235	$4,950,722	($1,481,487)	$2,978,071	$1,595,767	$1,382,304
C&I Portfolio	**5.10**	**2.76**	**0.82**	**3.02**	**$101,351,842**	**$19,890,472**	**$81,461,370**	**$101,351,842**	**$36,716,190**	**$64,635,652**	**$101,351,842**	**$123,813,364**	**($22,461,521)**	**$87,809,766**	**$29,087,389**	**$58,722,377**
Public																
Public Efficient Streetlighting	2.16	2.16	0.53	N/A	$12,164,406	$5,631,616	$6,532,790	$12,164,406	$5,631,616	$6,532,790	$12,164,406	$22,978,407	($10,814,001)	$9,963,621	$0	$9,963,621
EE Portfolio	**3.53**	**2.49**	**0.72**	**N/A**	**$161,275,416**	**$45,737,240**	**$115,538,175**	**$161,275,416**	**$64,803,866**	**$96,471,550**	**$161,275,416**	**$224,125,942**	**($62,850,526)**	**$158,326,374**	**$36,938,534**	**$121,387,840**
Demand Side Management (DSM)																
Home Energy Management	3.24	3.69	2.18	3.04	$23,681,059	$7,309,818	$16,371,241	$23,681,059	$6,426,293	$17,254,766	$23,681,059	$10,851,109	$12,829,950	$6,029,070	$1,980,580	$4,048,490
Work Energy Management	1.14	1.14	0.86	N/A	$15,486,016	$13,607,672	$1,878,344	$15,486,016	$13,607,672	$1,878,344	$15,486,016	$17,970,154	($2,484,139)	$2,830,595	$0	$2,830,595
Electric Energy Consumption Optimization	1.07	1.07	0.49	1.16	$14,522,958	$13,627,015	$895,943	$14,522,958	$13,627,015	$895,943	$14,522,958	$29,469,929	($14,946,971)	$15,842,914	$13,627,015	$2,215,899
DSM Portfolio	**1.55**	**1.60**	**0.92**	**1.58**	**$53,690,033**	**$34,544,505**	**$19,145,528**	**$53,690,033**	**$33,660,980**	**$20,029,053**	**$53,690,033**	**$58,291,192**	**($4,601,159)**	**$24,702,579**	**$15,607,595**	**$9,094,984**
DSM Plan Portfolio	**2.68**	**2.18**	**0.76**	**N/A**	**$ 214,965,449**	**$80,281,746**	**$ 134,683,703**	**$ 214,965,449**	**$98,464,845**	**$ 116,500,604**	**$214,965,448**	**$282,417,133**	**($67,451,685)**	**$183,028,953**	**$52,546,129**	**$130,482,824**

India

DSM

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Program	Weighted Average Measure Life (Yrs)
Home Energy Products	13.6
Income Qualified Weatherproofing	14.1
Schools Energy Education	10.6
Home Appliance Recycling	8.0
Home New Construction	25.0
Home Weatherproofing	16.5
Home Energy Engagement	1.8
Home Energy Management	15.0
Work Prescriptive Rebates	15.8
Work Custom Rebates	10.7
Work Direct Install	12.9
Electric Energy Consumption Optimization (EECO)	20.0
Public Efficient Streetlighting	21.3
Work Energy Management	15.0
Program Total	**14.9**

ana Michigan Power Company - Indiana
3 Year Plan
Plan Lifetime Energy Savings Summary

017		2018		2019
Weighted Ave Lifetime Energy Savings (kWh)	Weighted Average Measure Life (Yrs)	Weighted Ave Lifetime Energy Savings (kWh)	Weighted Average Measure Life (Yrs)	Weighted Ave Lifetime Energy Savings (kWh)
178,225,126	13.6	146,677,077	13.6	121,100,506
10,238,455	14.1	10,238,455	14.1	10,238,455
33,776,875	10.6	33,776,875	10.6	33,776,875
26,787,200	8.0	26,787,200	8.0	26,787,200
20,205,525	25.0	21,293,515	25.0	21,293,515
18,660,723	16.5	18,660,723	16.5	18,660,723
40,900,405	1.7	41,190,745	1.7	41,629,375
35,842,500	15.0	66,007,500	15.0	96,172,500
458,433,558	15.8	362,552,700	15.8	260,752,700
409,173,553	10.2	299,323,553	9.7	268,363,553
25,790,609	12.9	23,211,548	12.9	20,632,487
297,780,680	20.0	385,447,111	20.0	498,847,270
117,617,833	21.3	117,617,833	21.3	117,617,833
29,531,301	15.0	88,676,100	15.0	88,676,100
1,702,964,342	**15.4**	**1,641,460,935**	**15.7**	**1,624,549,092**

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3 Yr Average Measure Life (Yrs)	Total Lifetime Energy Savings (kWh)
	446,002,709
	30,715,364
	101,330,625
	80,361,600
	62,792,555
	55,982,169
	123,720,525
	198,022,500
	1,081,738,958
	976,860,659
	69,634,644
	1,182,075,061
	352,853,500
	206,883,501
15.3	**4,968,974,369**

Attachment JCW-7 Revised
Cause No. 44841

Indiana Michigan Power Company - Indiana
3 Year Plan
DSM Plan Lifetime Energy Savings Summary

	2017		2018		2019			
Program	Weighted Average Measure Life (Yrs)	Weighted Ave Lifetime Energy Savings (kWh)	Weighted Average Measure Life (Yrs)	Weighted Ave Lifetime Energy Savings (kWh)	Weighted Average Measure Life (Yrs)	Weighted Ave Lifetime Energy Savings (kWh)	3 Yr Average Measure Life (Yrs)	Total Lifetime Energy Savings (kWh)
Home Energy Products	13.6	178,225,126	13.6	146,677,077	13.6	121,100,506		446,002,709
Income Qualified Weatherproofing	14.1	10,238,455	14.1	10,238,455	14.1	10,238,455		30,715,364
Schools Energy Education	10.6	33,776,875	10.6	33,776,875	10.6	33,776,875		101,330,625
Home Appliance Recycling	8.0	26,787,200	8.0	26,787,200	8.0	26,787,200		80,361,600
Home New Construction	25.0	20,205,525	25.0	21,293,515	25.0	21,293,515		62,792,555
Home Weatherproofing	16.5	18,660,723	16.5	18,660,723	16.5	18,660,723		55,982,169
Home Energy Engagement	1.8	40,900,405	1.7	41,190,745	1.7	41,629,375		123,720,525
Home Energy Management	15.0	35,842,500	15.0	66,007,500	15.0	96,172,500		198,022,500
Work Prescriptive Rebates	15.8	458,433,558	15.8	362,552,700	15.8	260,752,700		1,081,738,958
Work Custom Rebates	10.7	409,173,553	10.2	299,323,553	9.7	268,363,553		976,860,659
Work Direct Install	12.9	25,790,609	12.9	23,211,548	12.9	20,632,487		69,634,644
Electric Energy Consumption Optimization (EECO)	20.0	297,780,680	20.0	385,447,111	20.0	498,847,270		1,182,075,061
Public Efficient Streetlighting	21.3	117,617,833	21.3	117,617,833	21.3	117,617,833		352,853,500
Work Energy Management	15.0	29,531,301	15.0	88,676,100	15.0	88,676,100		206,883,501
Program Total	**14.9**	**1,702,964,342**	**15.4**	**1,641,460,935**	**15.7**	**1,624,549,092**	**15.3**	**4,968,974,369**

Attachment JCW-9
Cause No. 44841

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
2017 Net Lost Revenue Forecast

	2017 PY 8 DSM Plan Measures				Legacy Measures			
	DSM Program 2017 PY 8 Expected Energy Savings (kWh)	2017 PY 8 Program Net to Gross Ratios	Total Adjusted** 2017 PY 8 DSM Program Net Energy Savings (kWh)	2017 PY 8 DSM Program Net Lost Revenue ($)	2010-2015 Cumulative Verified Net Energy Savings (kWh)*	2016 PY 7 Forecast Net Energy Savings Full Year Measures in 2017 (kWh)	2017 PY 8 Net Lost Energy Savings (kWh)	2017 PY 8 Net Lost Revenue Forecast ($)
DSM Program	**1**	**2**	**3 = (1 x .5) x 2**	**4 = 3 x Net Lost Realization Rate**	**5**	**6**	**7 = 3 + 5 + 6**	**8 = 7 x Net Lost Realization Rate**
Residential Lighting (2010 - 2014)	0	49%	0	0	-102,298	0	-102,298	-$6,932
Home Energy Products	13,132,892	52%	3,414,552	231,370	30,645,487	8,868,515	42,928,554	$2,908,839
Home Energy Audit (2010 - 2014)	0	89%	0	0	7,726,421	0	7,726,421	$523,542
Income Qualified Weatherproofing	724,847	100%	362,424	24,558	3,715,934	588,874	4,667,232	$316,252
Schools Energy Education	3,179,000	162%	2,574,990	174,481	14,872,471	7,751,522	25,198,983	$1,707,483
Home Appliance Recycling	3,348,400	72%	1,205,424	81,680	14,202,362	2,089,886	17,497,672	$1,185,642
Home New Construction	808,221	80%	323,288	21,906	871,214	521,403	1,715,905	$116,270
Home Weatherproofing	1,129,074	72%	406,466	27,542	1,771,191	922,553	3,100,210	$210,070
Home Energy Online Checkup	0	85%	0	0	9,108,950	3,746,441	12,855,391	$871,081
Home Energy Engagement	40,900,405	100%	20,450,203	1,385,706	0	0	20,450,203	$1,385,706
Residential Peak Reduction	0	100%	0	0	0	0	0	$0
Work Prescriptive Rebates	29,042,325	81%	11,762,142	673,735	147,938,351	13,575,948	173,276,441	$9,925,275
C&I Retro Commissioning Lite (2010 - 201	0		0	0	23,974,456	0	23,974,456	$1,373,257
Work Custom Rebates	38,418,023	99%	19,016,921	1,089,289	89,657,752	32,430,442	141,105,116	$8,082,501
Work Direct Install	1,999,500	100%	999,750	57,266	9,257,133	2,346,372	12,603,255	$721,914
C&I HVAC	0	86%	0	0	11,167	0	11,167	$640
Public Efficient Streetlighting	5,521,964	100%	0	0	0	0	0	$0
Home Energy Management	2,389,500	100%	2,389,500	161,913	0	0	2,389,500	$161,913
Work Energy Management	1,968,753	100%	1,968,753	112,770	0	0	1,968,753	$112,770
Electric Energy Consumption Optimization (EECO) Residential***	13,453,486	100%	13,453,486	911,608	0	0	13,453,486	$911,608
Electric Energy Consumption Optimization (EECO) C&I***	1,435,548	100%	1,435,548	82,228	0	0	1,435,548	$82,228
DSM Program Portfolio Total	**157,451,938**		**79,763,447**	**5,036,052**	**353,650,591**	**72,841,955**	**506,255,993**	**$30,590,059**
Residential			44,580,333	3,020,763	82,811,732	24,489,193	151,881,258	10,291,474
C&I****			35,183,114	2,015,289	270,838,859	48,352,762	354,374,735	20,298,585

*As accounted for through measure life tracking for measures installed as of Dec 31, 2015 but with life remaining in 2017; PY 1 Verified Net Savings adjusted by 1/2 to reflect energy savings accounted for in base rates placed into effect from Cause 44075 with a test year of March 2010 through April 2011.

**Adjusted Net Lost Revenue adjusts reported annualized savings to account for measure installations that do not yield a full year's worth of energy savings, as agreed upon by I&M's Oversight Board.

***EECO savings is presented as an average yearly savings where savings incurs savings from initiation date for duration of year, so full year savings occurs during first program year.

Attachment JCW-10
Cause No. 44841

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
2018 Net Lost Revenue Forecast

	2018 PY9 Plan Measures				Legacy Measures				
	DSM Program 2018 PY 9 Expected Energy Savings Current Year Measures (kWh)	2018 PY 9 Program Net to Gross Ratios	Total Adjusted** 2018 PY 9 DSM Program Net Energy Savings Current Year Measures (kWh)	2018 PY 9 DSM Program Net Lost Revenue ($)	2010-2015 Cumulative Verified Net Energy Savings (kWh)*	2016 PY 7 Forecast Net Energy Savings Full Year Measures in 2018 (kWh)	2017 PY 8 Forecast Net Energy Savings Full Year Measures in 2018 (kWh)	2018 PY 9 Net Lost Energy Savings (kWh)	2018 PY 9 Net Lost Revenue Forecast ($)
DSM Program	**1**	**2**	**3 = (1 x .5) x 2**	**4 = 3 x Net Lost Realization Rate**	**5**	**6**	**7**	**8 = 3 + 5 + 6 + 7**	**9 = 8 x Net Lost Realization Rate**
Residential Lighting (2010 - 2014)	0	49%	0	0	0	0	0	0	$0
Home Energy Products	10,796,000	52%	2,806,960	190,200	19,302,853	8,868,515	6,829,104	37,807,432	$2,561,832
Home Energy Audit (2010 - 2014)	0	89%	0	0	3,563,246	0	0	3,563,246	$241,446
Income Qualified Weatherproofing	734,847	100%	367,424	24,897	1,821,108	588,874	724,847	3,502,253	$237,313
Schools Energy Education	3,179,000	162%	2,574,990	174,481	9,651,965	7,751,522	5,149,980	25,128,457	$1,702,704
Home Appliance Recycling	3,348,400	72%	1,205,424	81,680	13,388,095	2,089,886	2,410,848	19,094,253	$1,293,827
Home New Construction	851,741	80%	340,696	23,086	871,214	521,403	646,577	2,379,890	$161,261
Home Weatherproofing	1,129,074	72%	406,466	27,542	1,771,191	922,553	812,933	3,913,143	$265,155
Home Energy Online Checkup	0	85%	0	0	7,076,050	3,746,441	0	10,822,491	$733,332
Home Energy Engagement	41,190,745	100%	20,595,373	1,395,542	0	0	2,965,805	23,561,178	$1,596,505
Residential Peak Reduction	0	100%	0	0	0	0	0	0	$0
Work Prescriptive Rebates	22,877,500	81%	9,265,388	530,721	144,717,911	13,575,948	23,524,283	191,083,530	$10,945,265
C&I Retro Commissioning Lite (2010 - 201	0		0	0	15,690,697	0	0	15,690,697	$898,763
Work Custom Rebates	29,458,023	99%	14,581,721	835,241	92,761,545	32,430,442	38,033,842	177,807,551	$10,184,817
Work Direct Install	1,799,550	100%	899,775	51,539	9,257,133	2,346,372	1,999,500	14,502,780	$830,719
C&I HVAC	0	86%	0	0	11,167	0	0	11,167	$640
Public Efficient Streetlighting	5,521,964	100%	0	0	0	0	0	0	$0
Home Energy Management	4,400,500	100%	4,400,500	298,178	0	0	0	4,400,500	$298,178
Work Energy Management Electric Energy Consumption	5,911,740	100%	5,911,740	338,624	0	0	0	5,911,740	$338,624
Optimization (EECO) Residential*** Electric Energy Consumption	17,414,183	100%	17,414,183	1,179,985	0	0	0	17,414,183	$1,179,985
Optimization (EECO) C&I***	1,858,172	100%	1,858,172	106,436	0	0	0	1,858,172	$106,436
DSM Program Portfolio Total	**150,471,438**		**82,628,812**	**5,258,152**	**319,884,175**	**72,841,955**	**83,097,719**	**558,452,662**	**$33,576,800**
Residential			50,112,016	3,395,590	57,445,722	24,489,193	19,540,094	151,587,025	10,271,537
C&I****			32,516,796	1,862,562	262,438,453	48,352,762	63,557,626	406,865,637	23,305,264

*As accounted for through measure life tracking for measures installed as of Dec 31, 2015 but with life remaining in 2018; PY 1 Verified Net Savings adjusted by 1/2 to reflect energy savings accounted for in base rates placed into effect from Cause 44075 with a test year of March 2010 through April 2011.

**Adjusted Net Lost Revenue adjusts reported annualized savings to account for measure installations that do not yield a full year's worth of energy savings, as agreed upon by I&M's Oversight Board.

***EECO savings is presented as an average yearly savings where savings incurs savings from initiation date for duration of year, so full year savings occurs during first program year.

****Total C&I Customer 2018 Net Lost Revenue cost responsibility is $23,305,264; July 1 2014 Opt Out customers are responsible for their allocated share of Net Lost Revenue from measures installed up to their date of Opt Out. The portion of total C&I class 2018 Net Lost Revenue in 2018 for July 1 2014 Opt Out customers is $9,815,205 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011. Nov. 2014 Opt Out customers are responsible for Net Lost Revenue in 2018 stemming from measures installed up to December 31, 2014. The portion of total C&I class 2018 Net Lost Revenue to be allocated to Nov 15, 2014 Opt Out customers is $11,706,273 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011. Nov. 2015 Opt Out customers are responsible for Net Lost Revenue in 2018 stemming from measures installed up to December 31, 2015. The portion of total C&I class 2018 Net Lost Revenue to be allocated to Nov 15, 2015 Opt Out customers is $15,032,475 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011.

Net Lost Realization Rates

Residential	0.06776	cents/kWh
C&I	0.05728	cents/kWh

Attachment JCW-11
Cause No. 44841

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
2019 Net Lost Revenue Forecast

	2019 PY 10 DSM Plan Measures				Legacy Measures					
	DSM Program 2019 PY 10 Expected Energy Savings Current Year Measures (kWh)	2019 PY 10 Program Net-to-Gross Ratios	Total Adjusted** 2019 PY 10 DSM Program Net Energy Savings Current Year Measures (kWh)	2019 PY 10 DSM Program Net Lost Revenue ($)	2010-2015 Cumulative Verified Net Energy Savings (kWh)*	2016 PY 7 Forecast Net Energy Savings Full Year Measures in 2019 (kWh)	2017 PY 8 Forecast Net Energy Savings Full Year Measures in 2019 (kWh)	2018 PY 9 Forecast Net Energy Savings Full Year Measures in 2019 (kWh)	2019 PY 10 Total Net Lost Energy Savings (kWh)	2019 PY 10 Total Net Lost Revenue Forecast ($)
DSM Program	**1**	**2**	**3 = (1 x .5) x 2**	**4 = 3 x Net Lost Realization Rate**	**5**	**6**	**7**	**8**	**9 = 3 + 5 + 6 + 7 + 8**	**10 = 9 x Net Lost Realization Rate**
Residential Lighting (2010 - 2014)	0	49%	0	0	0	0	0	0	0	$0
Home Energy Products	8,901,438	52%	2,314,374	156,822	8,673,851	8,868,515	6,829,104	5,613,920	32,299,763	$2,188,632
Home Energy Audit (2010 - 2014)	0	89%	0	0	346,050	0	0	0	346,050	$23,448
Income Qualified Weatherproofing	744,847	100%	372,424	25,235	815,388	588,874	724,847	734,847	3,236,380	$219,297
Schools Energy Education	3,179,000	162%	2,574,990	174,481	5,523,305	7,751,522	5,149,980	5,149,980	26,149,777	$1,771,909
Home Appliance Recycling	3,348,400	72%	1,205,424	81,680	10,384,131	2,089,886	2,410,848	2,410,848	18,501,137	$1,253,637
Home New Construction	851,741	80%	340,696	23,086	871,214	521,403	646,577	681,392	3,061,282	$207,432
Home Weatherproofing	1,129,074	72%	406,466	27,542	1,748,024	922,553	812,933	812,933	4,702,909	$318,669
Home Energy Online Checkup	0	85%	0	0	3,560,213	3,746,441	0	0	7,306,654	$495,099
Home Energy Engagement	41,629,375	100%	20,814,688	1,410,403	0	0	2,965,805	2,669,225	26,449,718	$1,792,233
Residential Peak Reduction	0	100%	0	0	0	0	0	0	0	$0
Work Prescriptive Rebates	16,665,000	81%	6,749,325	386,601	142,780,499	13,575,948	23,524,283	18,530,775	205,160,830	$11,751,612
C&I Retro Commissioning Lite (2010 - 201	0		0	0	8,108,396	0	0	0	8,108,396	$464,449
Work Custom Rebates	27,648,023	99%	13,685,771	783,921	92,693,241	32,430,442	38,033,842	29,163,442	206,006,740	$11,800,066
Work Direct Install	1,599,600	100%	799,800	45,813	9,255,982	2,346,372	1,999,500	1,799,550	16,201,204	$928,005
C&I HVAC	0	86%	0	0	10,698	0	0	0	10,698	$613
Public Efficient Streetlighting	5,521,964	100%	0	0	0	0	0	0	0	$0
Home Energy Management	6,411,500	100%	6,411,500	434,443	0	0	0	0	6,411,500	$434,443
Work Energy Management	5,911,740	100%	5,911,740	338,624	0	0	0	0	5,911,740	$338,624
Electric Energy Consumption Optimization (EECO) Residential***	22,537,509	100%	22,537,509	1,527,142	0	0	0	0	22,537,509	$1,527,142
Electric Energy Consumption Optimization (EECO) C&I***	2,404,854	100%	2,404,854	137,750	0	0	0	0	2,404,854	$137,750
DSM Program Portfolio Total	**148,484,064**		**86,529,561**	**5,553,543**	**284,770,992**	**72,841,955**	**83,097,719**	**67,566,913**	**594,807,141**	**$35,653,061**
Residential			56,978,071	3,860,834	31,922,176	24,489,193	19,540,094	18,073,145	151,002,679	10,231,942
C&I****			29,551,491	1,692,709	252,848,816	48,352,762	63,557,626	49,493,767	443,804,462	25,421,120

*As accounted for through measure life tracking for measures installed as of Dec 31, 2015 but with life remaining in 2019; PY 1 Verified Net Savings adjusted by 1/2 to reflect energy savings accounted for in base rates placed into effect from Cause 44075 with a test year of March 2010 through April 2011.

**Adjusted Net Lost Revenue adjusts reported annualized savings to account for measure installations that do not yield a full year's worth of energy savings, as agreed upon by I&M's Oversight Board.

***EECO savings is presented as an average yearly savings where savings incurs savings from initiation date for duration of year, so full year savings occurs during first program year.

****Total C&I Customer 2019 Net Lost Revenue cost responsibility is $25,421,120; July 1 2014 Opt Out customers are responsible for their allocated share of Net Lost Revenue from measures installed up to their date of Opt Out. The portion of total C&I class 2019 Net Lost Revenue in 2019 for July 1 2014 Opt Out customers is $9,315,354 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011. Nov. 2014 Opt Out customers are responsible for Net Lost Revenue in 2019 stemming from measures installed up to December 31, 2014. The portion of total C&I class 2019 Net Lost Revenue to be allocated to Nov 15, 2014 Opt Out customers is $11,161,158 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011. Nov. 2015 Opt Out customers are responsible for Net Lost Revenue in 2019 stemming from measures installed up to December 31, 2015. The portion of total C&I class 2019 Net Lost Revenue to be allocated to Nov 15, 2015 Opt Out customers is $14,483,180 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011.

Net Lost Realization Rates

Residential	0.06776	cents/kWh
C&I	0.05728	cents/kWh

Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2017 Shared Savings Forecast

Program	Utility Cost Test Net Benefit*	90% of UCT Net Benefit	15% Pre-Tax Shared Savings	Program Operating Costs	15% Sector Program Operating Cost Cap	Capped Shared Savings
(1)	(2)	(3)=(2) x 90%	(4)=(3) x 15%	(5)	(6)=(5) x 15%	(7)=min(4),(6)
Home Energy Products	$3,260,456			$1,970,726		
Schools Energy Education	$891,175			$705,154		
Home Appliance Recycling	$166,157			$627,090		
Home New Construction	$289,072			$502,327		
Home Weatherproofing	$112,153			$550,243		
Home Energy Engagement	$5,522,985			$2,303,992		
Home Energy Management	$5,729,248			$3,103,794		
Residential Sector Total	$15,971,247	$14,374,122	$2,156,118	$9,763,325	$1,464,499	$1,464,499
Work Prescriptive Rebates	$17,220,494			$3,632,947		
Work Custom Rebates	$17,265,177			$4,077,633		
Work Direct Install	$869,163			$458,943		
Commercial and Industrial Sector Total	$35,354,834	$31,819,351	$4,772,903	$8,169,524	$1,225,429	$1,225,429
Total	**$51,326,081**	**$46,193,473**	**$6,929,021**	**$17,932,849**	**$2,689,927**	**$2,689,927**

* Source: Attachment JCW-6

Attachment JCW-13
Cause No. 44841

Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2018 Shared Savings Forecast

Program	Utility Cost Test Net Benefit*	90% of UCT Net Benefit	15% Pre-Tax Shared Savings	Program Operating Costs	15% Sector Program Operating Cost Cap	Capped Shared Savings
(1)	(2)	(3)=(2) x 90%	(4)=(3) x 15%	(5)	(6)=(5) x 15%	(7)=min(4),(6)
Home Energy Products	$2,090,565			$1,638,036		
Schools Energy Education	$911,399			$662,812		
Home Appliance Recycling	$179,811			$600,027		
Home New Construction	$329,565			$498,197		
Home Weatherproofing	$123,907			$517,033		
Home Energy Engagement	$5,303,110			$2,235,940		
Home Energy Management	$5,105,596			$2,322,816		
Residential Sector Total	$14,043,953	$12,639,558	$1,895,934	$8,474,862	$1,271,229	$1,271,229
Work Prescriptive Rebates	$13,058,955			$2,795,344		
Work Custom Rebates	$12,024,492			$3,265,942		
Work Direct Install	$741,172			$410,919		
Commercial and Industrial Sector Total	$25,824,620	$23,242,158	$3,486,324	$6,472,204	$970,831	$970,831
Total	**$39,868,573**	**$35,881,716**	**$5,382,258**	**$14,947,066**	**$2,242,060**	**$2,242,060**

* Source: Attachment JCW-6

Indiana Michigan Power Company - Indiana
DSM - 3 Year DSM Plan
2019 Shared Savings Forecast

Program	Utility Cost Test Net Benefit*	90% of UCT Net Benefit	15% Pre-Tax Shared Savings	Program Operating Costs	15% Sector Program Operating Cost Cap	Capped Shared Savings
(1)	(2)	(3)=(2) x 90%	(4)=(3) x 15%	(5)	(6)=(5) x 15%	(7)=min(4),(6)
Home Energy Products	$1,697,762			$1,305,061		
Schools Energy Education	$918,751			$621,231		
Home Appliance Recycling	$200,066			$562,713		
Home New Construction	$332,029			$466,937		
Home Weatherproofing	$134,248			$484,493		
Home Energy Engagement	$5,031,555			$2,241,256		
Home Energy Management	$5,429,931			$1,878,594		
Residential Sector Total	$13,744,341	$12,369,907	$1,855,486	$7,560,286	$1,134,043	$1,134,043
Work Prescriptive Rebates	$9,134,255			$1,931,640		
Work Custom Rebates	$10,517,169			$2,939,204		
Work Direct Install	$610,049			$377,900		
Commercial and Industrial Sector Total	$20,261,473	$18,235,326	$2,735,299	$5,248,744	$787,312	$787,312
Total	**$34,005,814**	**$30,605,233**	**$4,590,785**	**$12,809,030**	**$1,921,355**	**$1,921,355**

* Source: Attachment JCW-6

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
DSM/EE Revenue Requirement

Attachment JCW-15
Cause No. 44841

	Residential	Commercial & Industrial	Total
2017 PY 8 Program Operating Cost	$12,747,477	$9,366,933	$22,114,410
2017 PY 8 DSM Plan Net Lost Revenue	$3,020,763	$2,015,289	$5,036,052
2017 PY 8 Legacy Net Lost Revenue	$7,270,711	$18,283,296	$25,554,007
2017 PY 8 Shared Savings	$1,464,499	$1,225,429	$2,689,927
2017 PY 8 Revenue Requirement	**$24,503,450**	**$30,890,946**	**$55,394,396**
2018 PY 9 Program Operating Cost	$12,650,977	$9,035,291	$21,686,268
2018 PY 9 DSM Plan Net Lost Revenue	$3,395,590	$1,862,562	$5,258,152
2018 PY 9 Legacy Net Lost Revenue	$6,875,947	$21,442,702	$28,318,648
2018 PY 9 Shared Savings	$1,271,229	$970,831	$2,242,060
2018 PY 9 Revenue Requirement	**$24,193,743**	**$33,311,385**	**$57,505,128**
2019 PY 10 Program Operating Cost	$12,875,899	$8,366,867	$21,242,765
2019 PY 10 DSM Plan Net Lost Revenue	$3,860,834	$1,692,709	$5,553,543
2019 PY 10 Legacy Net Lost Revenue	$6,371,107	$23,728,410	$30,099,518
2019 PY 10 Shared Savings	$1,134,043	$787,312	$1,921,355
2019 PY 10 Revenue Requirement	**$24,241,883**	**$34,575,298**	**$58,817,181**
3 Yr. Program Operating Cost	$38,274,352	$26,769,090	$65,043,443
3 Yr. DSM Plan Net Lost Revenue	$10,277,188	$5,570,560	$15,847,748
3 Yr. DSM Legacy Net Lost Revenue	$20,517,765	$63,454,408	$83,972,173
3 Yr. Shared Savings	$3,869,771	$2,983,571	$6,853,342
3 Yr. Revenue Requirement	**$72,939,076**	**$98,777,629**	**$171,716,705**
Total Revenue Requirement-Net of Gross Revenue Conversion	**$72,939,076**	**$98,777,629**	**$171,716,705**
Gross Revenue Conversion Factor (GRCF)		1.77%	
Gross Revenue Conversion--Required Revenue	$1,313,377	$1,778,639	$3,092,017
Total Revenue Requirement	**$74,252,453**	**$100,556,269**	**$174,808,722**

Indiana Michigan Power Company - Indiana
DSM - 3 Year Plan
Historical Program Performance

Direct Program Costs ($)

DSM Program	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	Total
Residential Lighting	224,862	1,152,506	1,396,072	1,078,698	855,233	828,770	5,536,140
Home Energy Audit	131,374	232,581	1,483,744	2,085,528	756,980	0	4,690,207
Income Qualified Weatherization	137,450	257,741	1,359,233	1,339,398	975,379	217,966	4,287,167
Energy Efficient Schools (Education & Aud	30,964	167,484	628,568	860,717	567,661	645,410	2,900,804
C&I Prescriptive	323,648	1,400,498	2,944,191	16,341,266	2,576,019	2,196,582	25,782,204
Core Program Totals	**848,298**	**3,210,810**	**7,811,808**	**21,705,607**	**5,731,271**	**3,888,728**	**43,196,522**
Residential Appliance Recycling	331,955	443,481	467,967	677,111	676,921	567,361	3,164,796
Residential Online Audit	0	7,326	92,019	816,855	323,547	521,992	1,761,739
Residential Home Energy Reports	0	0	487,106	830,552	721,384	1,191,612	3,230,655
Residential New Construction	0	5,175	8,069	29,512	264,884	440,196	747,837
Residential Weatherization	0	105,121	60,897	326,634	650,292	287,625	1,430,568
Residential Peak Reduction	0	11,774	860,448	1,610,360	1,147,690	617,925	4,248,197
Residential Solar Siting/EE Products 2014	0	1,673	11,013	18,345	259,079	320,808	610,918
C&I Custom	6,271	132,143	899,047	2,749,086	1,803,575	2,916,209	8,506,331
C&I Retro Commissioning Lite	0	7,582	133,113	1,754,637	2,030,692	0	3,926,024
C&I HVAC & Refrigeration	0	7,554	47,901	52,788	21,549	0	129,791
C&I Audit & SBDI	0	3,550	66,088	382,861	766,465	513,373	1,732,338
C&I New Construction		2,511	4,177	17,929	0	0	24,617
Renewables & Demonstrations	0	5,215	9,412	93,274	49,900	0	157,801
EECO	0	0	0	0	377,213	666,598	1,043,811
Core Plus Program Totals	**338,226**	**733,105**	**3,147,257**	**9,359,944**	**9,093,191**	**8,043,699**	**30,715,422**
DSM Direct Program Portfolio Totals	**1,186,524**	**3,943,915**	**10,959,065**	**31,065,550**	**14,824,462**	**11,932,428**	**73,911,945**
Staff Development & Professional Org.	13,459	21,360	30,156	40,719	195,668	62,763	301,362
Computer System Development	859	12,055	191,757	245,683	34,595	178,048	484,949
Marketing & Customer Awareness	50,389	65,267	255,797	245,674	126,164	291,702	743,291
New Program Development					0	45,000	0
Planning & Analytic Support					0	81,256	0
Budgeting & Acct. Support					0	124,810	0
MPS & Action Plan					0	100,890	0
Evaluation & Related					47,980	0	47,980
DSM Program Indirect Cost Totals	**64,707**	**98,682**	**477,710**	**532,076**	**404,407**	**884,469**	**1,577,582**
DSM Portfolio Totals	**1,251,231**	**4,042,597**	**11,436,775**	**31,597,626**	**15,228,870**	**12,816,897**	**75,489,527**
Portfolio Realization Rate (cents/verified kwh)	**$0.06**	**$0.06**	**$0.19**	**$0.15**	**$0.13**	**$0.10**	**$0.12**

*I&M administered 2011 Core Programs. The Statewide Third Party Administator administered the 2012 and 2013 Core Programs.

Program Energy Savings (kWh)

DSM Program	2010 Verified	2011 Verified*	2012 Verified**	2013 Verified	2014 Verified	2015 Verified	Total
Residential Lighting	9,285,627	35,867,940	15,230,938	21,487,684	14,836,964	11,077,430	107,786,583
Home Energy Audit	186,505	257,300	2,343,867	6,329,546	2,108,623	0	11,225,841
Income Qualified Weatherization	416,078	466,639	708,364	1,748,559	1,481,320	36,442	4,857,402
Energy Efficient Schools (Education & Aud	4,067	424,437	1,954,715	3,838,811	2,375,618	3,578,106	12,175,754
C&I Prescriptive	5,833,273	31,497,865	27,346,169	86,378,457	20,849,641	25,071,645	196,977,050
Core Program Totals	**15,725,550**	**68,514,181**	**47,584,053**	**119,783,057**	**41,652,167**	**39,763,624**	**333,022,631**
Residential Appliance Recycling	4,002,832	3,021,235	2,387,879	3,963,874	4,002,338	3,113,940	20,492,098
Residential Online Audit	0	0	670,409	12,279,596	2,818,382	3,414,869	19,183,256
Residential Home Energy Reports	0	0	4,134,057	16,698,313	23,776,713	26,810,824	71,419,907
Residential New Construction	0	0	0	0	369,415	719,602	1,089,017
Residential Weatherization	0	454,153	16,710	50,919	1,401,869	197,978	2,121,629
Residential Peak Reduction	0	0	0	213,356	62,367	31,496	307,219
Residential Solar Siting/EE Products 2014	0	0	0	0	524,551	654,713	1,179,264
C&I Custom	0	0	5,568,645	34,529,508	15,304,263	37,067,927	92,470,343
C&I Retro Commissioning Lite	0	0	0	18,571,762	20,685,678	0	39,257,440
C&I HVAC & Refrigeration	0	0	0	0	12,985	0	12,985
C&I Audit & SBDI	0	0	98,013	3,351,291	4,046,041	2,490,985	9,986,330
C&I New Construction	0	0	0	0	0	0	0
Renewables & Demonstrations	0	0	0	58,978	40,938	0	99,916
EECO	0	0	0	0	2,735,334	11,014,622	13,749,956
Core Plus Program Totals	**4,002,832**	**3,475,388**	**12,875,713**	**89,717,597**	**75,780,873**	**85,516,956**	**271,369,360**
DSM Direct Program Portfolio Totals	**19,728,382**	**71,989,569**	**60,459,766**	**209,500,654**	**117,433,040**	**125,280,580**	**604,391,991**

							Total
IURC Goal (kWh)	**47,200,000**	**77,300,000**	**107,100,000**	**138,600,000**	**167,951,000**	**538,151,000**
Annual Performance to Goal (kWh)	**-27,471,618**	**-5,310,431**	**-46,640,234**	**70,900,654**	**-50,517,960**	**-59,039,589**
Cumulative Performance to Goal (kWh)	**-27,471,618**	**-32,782,049**	**-79,422,283**	**-8,521,629**	**-59,039,589**	

**Includes energy savings reported in January 2012 for I&M administered Core Programs during 2011 for Residential Lighting, Energy Efficient Schools, C&I Prescriptive Programs

Tariff	(All)

Sum of # of Lamps			Lamp Size					
Lamp Type	Mtg Type	Rate	0	1000	2500	4000	5800	7000
HPS	06	17.550						
		20.000						
		22.550						
		23.050						
	06 Total							
	other	14.400						
		16.000					23	
		16.750						
		17.950						
		18.450						
		20.050						
		21.500						
	other Total						23	
	OH	7.050					582	
		7.850						
		11.900						
		12.200						
		14.250						
		15.850						
		16.750						
	OH Total						582	
HPS Total							605	
INC	06	17.200			2			
	06 Total				2			
	other	12.150		162				
	other Total			162				
	OH	2.850	52					
		24.550				1		
	OH Total		52			1		
INC Total			52	162	2	1		
MV	06	15.900						58
		21.750						
	06 Total							58
	other	13.200						28
		18.800						
	other Total							28
	OH	8.850						2,388
		9.000						119
		13.500						
		14.600						
		30.150						
	OH Total							2,507

MV Total						2,593
Grand Total	52	162	2	1	605	2,593

Cost Difference-Material Only

Existing		New		IMC	Loaded Existing with labor & transpo
Light Type A: 100W HPS	$52.00	LED Type A: 75 W	$219	$167.00	$144.94
ight Type B: 175W Mercur	NA	LED Type B: 105 W	$269	#VALUE!	#VALUE!
ht Type C: 250W Metal Hal	NA	LED Type C: 105 W	$269	#VALUE!	#VALUE!
Light Type D: 400W HPS	$125.00	LED Type D: 215 W	$472	$347.00	$242.67

New installations	
Material Included	Luminaire
	Lamp
	Control
	Connector(2)
	Pole (if applicable)
	Ground rod (if applicable)
Labor Included	Bracket
	Luminaire
	Pole (if applicable)
	Ground rod (if applicable)
Current Overheads	Admin(21%)
	Transportation(Rate $33.94/hr)
	Labor(148.7%)
	Stores(33.88%)

Induction vs

Typical Induction Roc

- Color 3-5K CCT 80 CRI
- Source Efficiency
  - QL 65 to 70 LPW
  - ICETRON 75 LPW
- Optical Efficiency
  - 80% CU
  - **50% Street 50% H**
- Luminaire Systems Effici
  - 55 LPW
- Lumen Depreciation
  - 20% at 40,000 Hou
  - 25% at 40,000 Hou
- Systems Life
  - 100,000 Hours Pote with 50% Survival R

imagination at work

9500	16000	20000	22000	25500	50000	Grand Total	Lumens
797						797	
			353			353	HPS Fixture Watts
	51					51	
					519	519	MV Fixture Watts
797	51		353		519	1,720	
175						175	LED Equiv Watts
						23	
9						9	
	18					18	
			385			385	
				16		16	
					317	317	
184	18		385	16	317	943	
						582	
18,193						18,193	
			5,517			5,517	
	36					36	
				11		11	
					816	816	
4						4	
18,197	36		5,517	11	816	25,159	
19,178	105		6,255	27	1,652	27,822	
						2	HPS Head Count
						2	HPS Total Wattage
						162	MV Head Count
						162	MV Total Wattage
						52	
						1	Energy
						53	12 hours/day/365
						217	HPS Annul kWh
						58	MV Annual kWh
		27				27	Total Existing kWh
		27				85	
						28	LED Annual kWh
		132				132	
		132				160	Total LED Replace kWh
						2,388	
						119	Total Energy Reduction
		507				507	% Reduction
		27				27	
					2	2	
		534			2	3,043	HPS Head Material Cost On

Nominal HP	
HPS Mean Lu	
HPS Inpu	
I&M Equiv Lur	
Equiv LED Outpu	
LED W	
Watt Differential	

		693			2	3,288
19,178	105	693	6,255	27	1,654	31,327

Total HPS Head Material Or

LED Head Material Cost On

Incremental Cost--LED Hea

WA HPS
Loaded Head
Cost with labor
count & transpo

19,888

3,286

6,282

1,652

31,108 #VALUE!

IMC / kWh

If do install labor outside o
2 man crew upgrade labor
IMC & Upgrade Labor Cost
Total LED Head & Labor Up

IMC & Labor / kWh

DSM Rider incentive is IMC material only
LED tariff will only book new HPS head loaded cost
that includes material, install labor loaded, and arm loaded
so base LED tariff re-capitalizes new head and arm with
existing pole used and no capital included for pole cost
no change to SL pole asset depreciation
existing HPS SL head will get removed with new install
assume existing head is full depreciated on books

2x2 man bucket
3

DSM Support Labor
EM&V
Streetlight account maintenance labor
streetlight upgrade design labor
Project misc travel & Support costs
Total EM&V & Support Labor

EULs
HPS
LED

In terms of actual wat
downwards and spread

s. LED Roadway Produ

adway

ouse Side

ency

rs

rs

ntial Life

Rate

Typical LED Roadway

- Color 4 - 6K CCT 70 CRI
- Source Efficiency
  - Cool White 6000K > 1
  - Neutral White 4000K
- Optical Efficiency
  - **75% Street 25% Hou**
- Luminaire Systems Efficien
  - 70+ LPW
- Lumen Depreciation
  - 10% at 40,000 Hours
- Systems Life
  - Potential of +100,000 Product Life
  - < B3 if a failure is defi light
  - L70 > 70,000 Hours

GE

watts = lumens / lumens per watt

HPS	125
MV	45

1000	2500	4000	5800	7000	9500	16000	20000
12	29	35	68	82	100	150	160
22	130	89	175	156	211	356	444
9	23	52	53	95	139	145	182

'S Watt Size	70	100	150	250	400
men Output	5,350	8,550	14,400	27,000	45,000
ıt Watts	91	129	185	295	464
nen HPS Bulb	5,800	9,500	16,000	2,550	50,000
ıt Equiv. Lumen	2,277	3,757	6,292	11,726	19,582
attage	20	33	55	103	172
LED to HPS Equiv	-71	-96	-130	-192	-292

	605	19,178	105	6,282	1,652	27,822
	55,055	2,473,962	19,425	1,853,190	766,528	5,168,160
		175 watt				
	0	2,593	0	693	0	3,286
	0	404,508	0	307,692	0	712,200
4,000						Total
	220,220	9,895,848	77,700	7,412,760	3,066,112	20,672,640
		1,618,032		1,230,768		2,848,800
						23,521,440
HPS	48,400	2,531,496	23,100	2,588,184	1,136,576	6,327,756
MV		342,276		285,516		627,792
						6,955,548
						16,565,892
						70%

	100 w HPS	100 w HPS	100 w HPS	400 w HPS	400 w HPS
ly-Per Unit Reproduction C	$52	$52	$52	$125	$125

ıly Reproduction Cost	$31,460	$1,132,092	$5,460	$871,875	$206,500	$2,247,387
ly	$132,495	$4,767,849	$28,245	$1,876,275	$779,744	$7,584,608
d to HPS Head Only	**$101,035**	**$3,635,757**	**$22,785**	**$1,004,400**	**$573,244**	**$5,337,221**

$0.32

f tariff only

$66.70	$56,386	$2,029,057	$9,786	$650,070	$153,966	$2,899,266
	$157,421	$5,664,814	$32,571	$1,654,470	$727,210	$8,236,487
grade Cost	$188,881	$6,796,906	$38,031	$2,526,345	$933,710	$10,483,874

$0.50
$5,146,653

$1,715,551

$66.7 per hour loaded; $26.5 per hour bucket truck;
1 hour per upgrade fixture incl travel time

31,108	manhours req'd	
10,320	hours/year available	(2 weeks vac, 3 pdos, 9 holidays, training, mtgs, etc.)
3.0	years	
$2,899,266	per year spend	

2017	2018	2019
$48,000	$48,000	$48,000
$35,581	$35,581	$35,581
$0	$0	$0
$0	$0	$0
$10,000	$10,000	$10,000
$93,581	$93,581	$93,581

6.0
21.3

tage, a 30W LED lamp approximates the light output of a 80W HPS. This feat of efficiency stems from the
s illumination evenly over a given area. As a result, one LED lamp requires significantly less wattage than c

ıcts

20 LPW
> 100 LPW

ıse Side

cy

Hours of

ned as no

	LED	110	lumens per watt
22000	25500	50000	
176	280	400	
489	567	1,111	
200	232	455	

directionality of LEDs, which focus light
does an HPS to illuminate the same area.

Work Energy Management Program Premise:

Robust C&I end-use energy management platform & equipment installed and operated by I&M to reduce d
Three Year Deployment total = 10 MW of annual C&I load, 60% HVAC & 40% lighting end-use loads manage
End use customer paid an annual incentive of actual energy priced for 487 hours @ AEP zone day ahead ho
Similar EE measure = Building Management System (BMS) web enabled; MEMD EUL = 15 years
BMS platform accounts for snap back = zero snap back impact

Top Hours Management Savings		
		2017
	Peak Demand Reduction (kW)	3,333
	Tiered Annual Energy Savings (kWh)	1,308,215
10 MW @	6 Top Cost Hours	17,982
10 MW @	Rest of 100 Top Cost Hours	281,718
10 MW @	101-200 Top Cost Hours	296,703
10 MW @	201-300 Top Cost Hours	296,703
8.6 MW @	301-400 Top Cost Hours	255,165
6.2 MW @	401-487 Top Cost Hours	159,944

Demand @ at the meter 10,000

		Addi
Types	Average Annual Energy Consumption per Building (MWh)	Estimated kWh per Month (cross check only)
Big Box	1,000	83,000
Small Retail	250	21,000
Convenience	200	17,000
Campus	2,500	208,000
Restaurant	500	42,000
Office	500	42,000
Total	4,950	413,000

WEM Program Cost	
Initial Capital Expenditure	
	2017
Capital ($695 / kW)	$3,625,556
Ongoing Annual Costs	
Annual Return Of and On	$169,560
Implementation ($43 / kW yr)	$430,000
Program Administration & Support	$75,200
EM&V	$21,500
Customer Incentive (Equivalent PJM Capacity Performance Value)	$56,372

Total Ongoing Annual	$752,632
Annual Participants	19

Per Customer Estimated Annual Incentive Payment	$
	$/ kW yr

lemand and energy for top 487 hours per year (5% EQ Capacity Factor).
ed
urly prices

2018	2019
10,000	10,000
3,928,140	3,928,140
54,000	54,000
846,000	846,000
891,000	891,000
891,000	891,000
766,260	766,260
479,880	479,880

Top Hours Management Savings Value (Annual Avoided Demand		
		2017
Peak Demand Reduction Value ($)		64,916
Tiered Annual Energy Savings Value ($)		86,655
10 MW @	6 Top Cost Hours	1,873
10 MW @	Rest of 100 Top Cost Hours	23,751
10 MW @	101-200 Top Cost Hours	20,234
10 MW @	201-300 Top Cost Hours	18,072
8.6 MW @	301-400 Top Cost Hours	14,278
6.2 MW @	401-487 Top Cost Hours	8,447

kW

tional Energy Savings Attributed to Application of BMS to those buildings without an existing BMS

Average % Buildings Installed (Building Mix)	# Buildings Installed	Total Annual kWh	Percent of Buildings with Building Management System (BMS)	Percent of Buildings Without a BMS	# Buildings Without a BMS
35%	20	20,000,000	40%	60%	12
25%	14	3,571,429	20%	80%	11
15%	9	1,714,286	5%	95%	8
15%	9	21,428,571	80%	20%	2
0%	0	0	0%	100%	0
10%	6	2,857,143	15%	85%	5
100%	57	49,571,429	160%		38

2018	2019	3 Yr. Total
$3,324,444	$0	$6,950,000
$862,270	$1,018,083	$2,049,913
$442,900	$455,800	$1,328,700
$75,200	$75,200	$225,600
$22,145	$22,790	$66,435
$169,132	$172,515	$398,019

Average Participant Contract Capacity
Number of Participants @ 10 MW

Assume 100% net to gross since customers would not
IMC = full capital cost of equipment

Ongoing Annual Customer Incentive Payments
$169,132

Base Ongoing Annual Delivery Cost

$1,571,647	$1,744,388	$4,068,667	$430,000
57	57		

$2,967.23
16.96

& Energy Costs-RPM Market Based)	
2018	2019
581,200	866,400
260,203	260,203
5,626	5,626
71,324	71,324
60,763	60,763
54,271	54,271
42,876	42,876
25,344	25,344

Total Energy Savings-Top Hours & New BMS		
2017	2018	2019
1,968,753	5,911,740	5,911,740

Total Annual Energy of non-BMS Buildings (kWh)	% Savings	2017 New BMS Additional Energy Savings (kWh)	2018 New BMS Additional Energy Savings (kWh)	2019 New BMS Additional Energy Savings (kWh)
12,000,000	9%	341,658	1,026,000	1,026,000
2,857,143	9%	81,347	244,286	244,286
1,628,571	9%	46,368	139,243	139,243
4,285,714	9%	122,021	366,429	366,429
0	9%	0	0	0
2,428,571	9%	69,145	207,643	207,643
23,200,000		660,539	1,983,600	1,983,600

175 kW
57

undertake the load management and DR activities absent the WEM program and system.

Incentive % of Annual Energy Value
65%

Current I&M DRS Tariff Customer Incentive Paymen

Planning Year (1)	RPM Clearing Price (2)	Net Cone Price (3)	35% of Net Cone Price 4)=(3)x35%	Greater of RPM and 5% Net Cor (5)=Max of (2) and (4)	Reserve Margin (6)
	$/MW-day	$/MW-day	$/MW-day	$/MW-day	
2009/2010	102.04	172.27	60.29	102.04	1.178
2010/2011	174.29	174.29	61.00	174.29	1.165
2011/2012	110.00	171.40	59.99	110.00	1.181
2012/2013	16.46	276.09	96.63	96.63	1.209
2013/2014	27.73	317.95	111.28	111.28	1.202
2014/2015	125.99	342.23	119.78	125.99	1.196
2015/2016	136.00	320.63	112.22	136.00	1.202
2016/2017	59.37	330.53	115.69	115.69	1.211
2017/2018	120.00	351.39	122.99	122.99	1.197
2018/2019	164.77	298.53	104.49	164.77	1.198
Average			113.84		1.202
			41.55324		

Planning Year (1)	RPM Clearing Price (2)	Reserve Margin (3)
	$/MW-day	
2009/2010	102.04	1.178
2010/2011	174.29	1.165
2011/2012	110.00	1.181
2012/2013	16.46	1.209
2013/2014	27.73	1.202
2014/2015	125.99	1.196
2015/2016	136.00	1.202
2016/2017	59.37	1.211
2017/2018	120.00	1.197
2018/2019	164.77	1.198
Average		

DA LMP	Period	2013	2015
Maximum	363.80	298.25	363.80
95th Perce	52.81	50.96	54.37
90th Perce	45.04	45.33	44.35
80th Perce	39.07	40.47	36.61
70th Perce	35.39	37.22	32.98
60th Perce	32.93	34.87	30.55
50th Perce	30.90	32.91	28.50
40th Perce	29.01	31.19	26.63
30th Perce	27.05	29.43	24.92
20th Perce	25.02	27.61	23.14
10th Perce	22.58	25.19	20.31
Minimum	4.31	9.79	4.31
Average	33.48	35.15	31.80

2006-2015 average

Benchmarl	Period	2013	2014	2015
Maximum	107.4625	62.175	107.4625	47.1375
95th Perce	65.725	59.15	77.8125	44.7
90th Perce	62.85	58.225	71.2625	42.775
80th Perce	59.45	55.8375	64.55	42.125
70th Perce	55.625	54.0625	62.85	41.4375
60th Perce	53.3825	52.2125	61.825	40.5975
50th Perce	50.9875	51.3875	60.55	39.9875
40th Perce	48.125	50.4275	57.5125	39.2025
30th Perce	42.625	49.7375	55.5125	38.3625
20th Perce	40.56	48.5625	54.1475	37.375
10th Perce	38.3625	46.8375	52.825	32.3875
Minimum	25.1	44.125	39.8125	25.1
Average	50.66552	52.02671	60.80025	39.1696

Source:
Day Ahead AEP Load Zone (Jan 2013 - May 2015)
Day Ahead I&M Load Zone (Jun 2015 - Dec 2015)
(nMarket)

ıt Basis	
DR Factor (7)	**Interruption Demand Credit**)=[(5)x(6)x(7) x 365] / 1,000 kW **$/kW-year**
0.957	41.99
0.955	70.78
0.955	45.28
0.950	40.51
0.957	46.72
0.956	52.58
0.955	56.98
0.955	48.83
0.953	51.21
0.951	68.52
	52.34

DR Factor (4)	**Interruption Demand Credit**)=[(2)x(3)x(4) x 365] / 1,000 kW **$/kW-year**
0.957	41.99
0.955	70.78
0.955	45.28
0.950	6.90
0.957	11.64
0.956	52.58
0.955	56.98
0.955	25.06
0.953	49.96
0.951	68.52
	42.97

Historical Hourly Energy Prices ($/MWh) Percentil Rank Tiers

2013-2015		Top	Next	Next	Next	Next			
		100	100	100	100	100			
245.17	104.18	84.31	68.20	60.91	55.96	52.81	45.04	39.07	35.39
99.93th	99.4th	99th	98th	97th	96th	95th	90th Perce	80th Perce	70th Perce
Top 6	Top 50	Top 100	Top 200	Top 300	Top 400	Top 500			

Top	6	Hours
	224.32	
	53	

#DIV/0!

	2017	2018	2019
PJM Capac	52.63604	58.1229	86.63594
$/kW Yr.	38.02555		

60th Perce	50th Perce	40th Perce	30th Perce	20th Perce	10th Percentile
32.93	30.90	29.01	27.05	25.02051	22.58

	2017	2018	2019
Work Direct Install Program	2,000,000	1,800,000	1,600,000

Measure Category Name	Sub Cat 1	Measure Name	I&M Equipment Being Replaced Notes	Pct of Meas Cat	Pct of Pgm
Lighting - SBDI	CFL	Incandescent to 13w CFL	Incandescent	0.0%	0.0%
Lighting - SBDI	CFL	Incandescent to 23w CFL	Incandescent	0.0%	0.0%
Lighting - SBDI	T8	1 Lamp 4' 32w T8 to 1 Lamp 4ft HPT8 -- Relamp	1 Lamp 4' 32w T8	1.9%	1.6%
Lighting - SBDI	T8	2 Lamp 4' 32w T8 to 2 Lamp 4ft HPT8 -- Relamp	2 Lamp 4' 32w T8	1.9%	1.6%
Lighting - SBDI	T8	3 Lamp 4' 32w T8 to 3 Lamp 4ft HPT8 -- Relamp	3 Lamp 4' 32w T8	1.9%	1.6%
Lighting - SBDI	T8	4 Lamp 4' 32w T8 to 4 Lamp 4ft HPT8 -- Relamp	4 Lamp 4' 32w T8	1.9%	1.6%
Lighting - SBDI	T8	250w HID to 4L 4 ft T8HO	250W HID	3.7%	3.2%
Lighting - SBDI	T8	400w HID to 6 Lamp 4ft T8HO	400W HID	3.7%	3.2%
Lighting - SBDI	T8	T8 4ft 1 lamp - 28W	T12	1.9%	1.6%
Lighting - SBDI	T8	T8 4ft 2 lamp - 28W	T12	1.9%	1.6%
Lighting - SBDI	T8	T8 4ft 3 lamp - 28W	T12	1.9%	1.6%
Lighting - SBDI	T8	T8 4ft 4 lamp - 28W	T12	1.9%	1.6%
Lighting - SBDI	LED	Incandescent to LED 9.5W*	Incandescent 40W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 9.5W PAR*	Incandescent 40W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 12.5W*	Incandescent 60W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 13W PAR*	Incandescent 60W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 14W*	Incandescent 75W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 14W PAR*	Incandescent 75W*	5.1%	4.4%
Lighting - SBDI	LED	Incandescent to LED 17W*	Incandescent 100W*	5.1%	4.4%
Lighting - SBDI	LED	Replace Exterior less than 175W HID to LED	HID <= 175W	6.0%	5.1%
Lighting - SBDI	LED	Replace Exterior 176W - 250W HID to LED	HID 176W - 250W	6.0%	5.1%
Lighting - SBDI	LED	Replace Exterior 251W - 400W HID to LED	HID 251W - 400W	6.0%	5.1%
Lighting - SBDI	LED	Replace Exterior 1,000W HID with LED	HID 1000W	6.0%	5.1%
Lighting - SBDI	LED	LED Lighting within refrigerated space		0.0%	2.1%
Lighting - SBDI	Exit Sign	LED Exit Sign Retrofit/Replacement	CFL or Incandescent	4.8%	4.1%
Lighting - SBDI	Exit Sign	LED Exit Sign Fixture with Battery Backup	CFL or Incandescent	3.2%	2.7%
Lighting - SBDI	Occupancy Sensor	Occupancy Sensor - 500W or less connected load	No control	3.5%	3.0%
Lighting - SBDI	Occupancy Sensor	Occupancy Sensor - Greater then 500W connected load	No control	3.5%	3.0%

Refrig - SBDI	ECM Motor	Commercial ECM Cooler Motors	Low Efficiency Shaded Pole or Perr	2.7%	0.4%
Refrig - SBDI	ECM Motor	Commercial ECM Freezer Motors	Low Efficiency Shaded Pole or Perr	2.7%	0.4%
Refrig - SBDI	Vending Machine Occ Sen	Vending Machine Occ Sensor -- Refrigerated Glass Front C	No control	2.7%	0.4%
Refrig - SBDI	Vending Machine Occ Sen	Vending Machine Occ Sensor -- Refrigerated Beverage	No control	2.7%	0.4%
Refrig - SBDI	Strip Curtain	Install Strip Curtain -- Walk In Cooler	No cover	2.7%	0.4%
Refrig - SBDI	Strip Curtain	Install Strip Curtain -- Walk In Freezer	No cover	2.7%	0.4%
Refrig - SBDI	Refrigerated Display Case	Refrigerated Display Case Lighting 6ft T12 to 6ft LED -- co	6ft T12	1.4%	0.2%
Refrig - SBDI	Refrigerated Display Case	Refrigerated Display Case Lighting 5ft T8 to 5ft LED -- cool	5ft T8	1.4%	0.2%
Refrig - SBDI	Refrigerated Display Case	Refrigerated Display Case Lighting 5ft T8 to 5ft LED -- free	5ft T8	1.4%	0.2%
Refrig - SBDI	Refrigerated Display Case	Refrigerated Display Case Lighting 6ft T12 to 6ft LED -- fre	6ft T12	1.4%	0.2%
Refrig - SBDI	Anti-sweat Heater Control	Anti-Sweat Heater Controls - Medium temp case, Walk-in	Standard heated door with no con	2.7%	0.4%
Refrig - SBDI	Anti-sweat Heater Control	Anti-Sweat Heater Controls - Low temp case, Walk-in, Rea	Standard heated door with no con	2.7%	0.4%
Refrig - SBDI	Auto Door Closer	Auto Door Closers - Reach-in Freezer	Door with manual closer	1.4%	0.2%
Refrig - SBDI	Auto Door Closer	Auto Door Closers - Reach-in Cooler	Door with manual closer	1.4%	0.2%
Refrig - SBDI	Auto Door Closer	Auto Door Closers - Walk-in Freezer	Door with manual closer	1.4%	0.2%
Refrig - SBDI	Auto Door Closer	Auto Door Closers - Walk-in cooler	Door with manual closer	1.4%	0.2%
Refrig - SBDI	Evaporator Fan Controls	Evaporator Fan - Install controls on Shade Pole or PSC, fan	No control	5.5%	0.8%
Refrig - SBDI	Night Covers	Night Covers - Vertical	No cover	2.7%	0.4%
Refrig - SBDI	Night Covers	Night Covers - Horizontal	No cover	2.7%	0.4%
Refrig - SBDI	Add doors to open refrige	Refrigeration Case Door Retrofits - Add doors to open refr	Low Temp Reach-in Cases w/o doo	5.5%	0.8%
Refrig - SBDI	Floating Pressure Controls	Floating Pressure Controls -- Air Cooled	Constant or Manual Head Pressure	2.7%	0.4%
Refrig - SBDI	Floating Pressure Controls	Floating Pressure Controls -- Evaporatively Cooled	Constant or Manual Head Pressure	2.7%	0.4%
Refrig - SBDI	Floating Suction Controls	Floating Suction Controls -- Air Cooled	Constant or Manual Head Pressure	2.7%	0.4%
Refrig - SBDI	Floating Suction Controls	Floating Suction Controls -- Evaporatively Cooled	Constant or Manual Head Pressure	2.7%	0.4%
Refrig - SBDI	LED Case Lighting	LED Lighting -- T8 to LED Refrigerated Space - Single	T8	7.5%	1.1%
Refrig - SBDI	LED Case Lighting	LED Lighting -- T12 to LED Refrigerated Space - Single	T12	7.5%	1.1%
Refrig - SBDI	LED Case Lighting	LED Lighting -- T8 to LED Refrigerated Space - Double	T8	7.5%	1.1%
Refrig - SBDI	LED Case Lighting	LED Lighting -- T12 to LED Refrigerated Space - Double	T12	7.5%	1.1%
Refrig - SBDI	Motion Sensors on LED ca	Motion Sensors on LED cases	No control	10.0%	1.5%
	Total Program			197.5%	100.0%

Ex Ante Gross kWh Savings	*Gross Audited kWh Savings*	*Gross Verified kWh Savings*	*Ex Post Gross kWh Savings*	*Gross Realization Rate*
2,573,902	2,573,902	2,490,985	2,271,702	88%

Ex Ante kWh Savings	*Ex Post Gross kWh Savings*	*Free Ridership*	*Spillover*	*Ex Post Net kWh Savings*	*Net to Gross Ratio*
2,573,902	2,271,702	28,953	0	2,242,749	99%

Ex Post Gross Peak kW Savings	*Free Ridership*	*Spillover*	*Ex Post Net Peak kW Savings*	*Net to Gross Ratio*
314	2	0	312	99%

Measure Category	*Total kWh Savings per Measure Category*	*Total Incentive per Measure Category*	*Percent of Savings*
Lighting	2,399,361	$225,698	93%
Refrigeration	174,541	$5,394	7%
Total	2,573,902	$231,092	100%

Project Size	*Count*	*Ex Ante kWh Savings*	*% of Ex Ante kWh Savings*
<20,000 kWh	116	1,045,010	41%
>20,000 kWh < 30	24	588,539	23%
>30,000 kWh < 50	20	734,282	29%
>50,000 kWh	4	206,071	8%
Total	164	2,573,902	100%

2017

Unit Name	EUL	Presc kWh Savings	kWh Svgs Per Unit	KW Svgs Per Unit	Units Per Install	Avg Units Project	IMC	$/kWh	Incentive / IMC	2014 SBDI Incentive	Proposed 2015	Incer Previous
Lamp	3	N/A	78.68	0.030	1.00	20.00	$7.50	$0.05	53.33%	$ 8.00	N/A	$ 4.00
Lamp	3	N/A	127.52	0.050	1.00	20.00	$7.50	$0.03	53.33%	$ 9.00	N/A	$ 4.00
Lamp	5	N/A	26.72	0.005	1.00	20.00	$3.50	$0.09	71.43%	N/A	N/A	$ 2.00
Lamp	5	N/A	44.53	0.009	1.00	20.00	$7.00	$0.11	71.43%	N/A	N/A	$ 4.00
Lamp	5	N/A	75.69	0.000	1.00	20.00	$10.50	$0.10	71.43%	N/A	N/A	$ 6.00
Lamp	5	N/A	80.15	0.016	1.00	20.00	$14.00	$0.12	71.43%	N/A	N/A	$ 8.00
Lamp	15	N/A	507.36	0.066	1.00	20.00	$300.00	$0.20	33.33%	N/A	N/A	$ 60.00
Lamp	15	N/A	1,099.47	0.144	1.00	20.00	$315.00	$0.14	47.62%	N/A	N/A	$ 125.00
Lamp	15	80.09	70.48	0.013	1.00	20.00	$70.00	$0.11	11.43%	N/A	$ 4.00	$ 5.00
Lamp	15	101.64	89.44	0.017	1.00	20.00	$79.00	$0.13	15.19%	N/A	$ 6.00	$ 7.50
Lamp	15	183.36	161.36	0.031	1.00	20.00	$100.00	$0.10	16.00%	N/A	$ 8.00	$ 10.00
Lamp	15	208.97	183.90	0.035	1.00	20.00	$105.00	$0.11	19.05%	N/A	$ 10.00	$ 12.00
Lamp	15	138.23	121.64	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A	$ 7.50	$ 10.00
Lamp	15	140.26	123.43	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A	$ 4.00	$ 5.00
Lamp	15	213.45	187.84	0.042	1.00	20.00	$20.00	$0.08	75.00%	N/A	$ 10.00	$ 13.00
Lamp	15	211.41	186.04	0.041	1.00	20.00	$22.00	$0.08	68.18%	N/A	$ 7.50	$ 9.00
Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A	$ 12.50	$ 15.00
Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A	$ 12.50	$ 18.00
Lamp	15	418.76	368.51	0.073	1.00	20.00	$25.00	$0.05	70.00%	N/A	$ 20.00	$ 24.00
Lamp	15	595.62	524.14	0.000	1.00	10.00	$210	$0.14	35.73%	N/A	$ 30.00	$ 60.00
Lamp	15	874.11	769.22	0.000	1.00	10.00	$270	$0.12	33.35%	N/A	$ 40.00	$ 80.00
Lamp	15	######	1,330.93	0.000	1.00	10.00	$350	$0.09	35.72%	N/A	$ 50.00	$ 100.00
Fixture	10	######	3,327.33	0.726	1.00	10.00	$2,900	$0.14	16.21%	$ 470.00	$ 175.00	$ 470.00
Lamp	8		774.30	0.101	1.00	10.00	$380	$0.21	42.11%	N/A	$ 80.00	$ 160.00
Fixture	16	235.00	235.00	0.030	1.00	3.00	$30	$0.06	50.00%	$ 21.00	$ 7.50	$ 15.00
Fixture	16	83.00	83.00	0.010	1.00	3.00	$30	$0.18	50.00%	$ 21.00	$ 7.50	$ 15.00
Unit	9	304.92	304.92	0.000	1.00	2.00	$66	$0.07	30.30%	$ 34.00	$ 15.00	$ 20.00
Unit	9	609.85	609.85	0.000	1.00	2.00	$43	$0.04	58.14%	$ 30.00	$ 25.00	$ 25.00

Unit	15	824.00	824.00	0.033	1.00	2.00	$78	$0.05	51.28%	$ 40.00	$ 25.00	$ 40.00
Unit	15	824.00	824.00	0.050	1.00	2.00	$78	$0.05	51.28%	$ 45.00	$ 25.00	$ 40.00
Fixture	6	N/A	1,612.00	0.000	1.00	2.00	$225	$0.08	55.56%	$ 150.00	N/A	$ 125.00
Lamp	6	N/A	1,209.00	0.000	1.00	2.00	$225	$0.10	55.56%	$ 150.00	N/A	$ 125.00
Unit	6	N/A	422.00	0.050	1.00	2.00	$429	$0.13	12.81%	$ 55.00	N/A	$ 55.00
Unit	6	N/A	1,874.00	0.350	1.00	2.00	$429	$0.13	58.24%	$ 300.00	N/A	$ 250.00
Door	8	104.88	104.88	0.017	1.00	20.00	$250	$0.15	6.40%	$ 16.00	$ 16.00	$ 16.00
Door	8	128.91	128.91	0.021	1.00	20.00	$250	$0.11	5.60%	$ 14.00	$ 14.00	$ 14.00
Door	8	223.91	223.91	0.036	1.00	20.00	$250	$0.09	8.00%	$ 14.00	$ 20.00	$ 20.00
Door	8	182.16	182.16	0.029	1.00	20.00	$250	$0.11	8.00%	$ 16.00	$ 20.00	$ 20.00
Unit	12	540.77	540.77	0.000	1.00	2.00	$100	$0.09	50.00%	$ 45.00	$ 25.00	$ 50.00
Unit	12	######	1,277.73	0.000	1.00	2.00	$100	$0.04	50.00%	$ 60.00	$ 25.00	$ 50.00
Door	16	393.62	393.62	0.000	1.00	2.00	$51	$0.06	48.86%	$ 75.00	$ 12.50	$ 25.00
Door	16	254.32	254.32	0.000	1.00	2.00	$33	$0.10	75.62%	$ 50.00	$ 12.50	$ 25.00
Door	16	######	2,307.00	0.309	1.00	2.00	$157	$0.02	31.88%	$ 200.00	$ 25.00	$ 50.00
Door	16	943.00	943.00	0.137	1.00	2.00	$157	$0.05	31.88%	$ 130.00	$ 25.00	$ 50.00
per Fan	10	478.00	478.00	0.000	15.00	30.00	$291	$0.16	25.77%	$ 60.00	$ 45.00	$ 75.00
per Case	5	272.50	272.50	0.000	50.00	100.00	$42	$0.07	47.62%	$ 30.00	$ 10.00	$ 20.00
per Case	5	272.50	272.50	0.000	25.00	50.00	$42	$0.07	47.62%	$ 28.00	$ 10.00	$ 20.00
Unit	10	######	1,454.00	0.000	1.00	2.00	$670	$0.21	44.78%	$ 1,285.00	$ 150.00	$ 300.00
HP	15	######	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 32.00	$ 20.00	$ 40.00
HP	15	######	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 30.00	$ 20.00	$ 40.00
HP	15	######	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 18.00	$ 20.00	$ 40.00
HP	15	######	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 17.00	$ 20.00	$ 40.00
Linear Ft	8	27.50	24.20	0.005	1.00	20.00	$23	$0.12	13.04%	$ 14.00	$ 3.00	$ 3.00
Linear Ft	8	40.75	35.86	0.008	1.00	20.00	$23	$0.11	17.39%	$ 16.00	$ 4.00	$ 4.00
Linear Ft	8	15.50	13.64	0.003	1.00	20.00	$34	$0.22	8.82%	$ 14.00	$ 3.00	$ 3.00
Linear Ft	8	55.50	48.84	0.011	1.00	20.00	$34	$0.08	11.76%	$ 16.00	$ 4.00	$ 4.00
Door	10	508.25	508.25	0.000	1.00	20.00	$5	$0.01	76.92%	$ 2.00	$ 2.50	$ 5.00
	12.90						$668,377		45.09%			

ntive	Participation		Total Energy Savings (kWh)	KW Savings	Incentives Paid	Net to Gross	Total Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)
Per unit	Units	Participants								
$4.00	0.00	0.00	0	0.00	$0	99%	0	0	0	0
$4.00	0.00	0.00	0	0.00	$0	99%	0	0.00	0	0
$2.50	1,193.07	59.65	31,875	6.30	$2,983	99%	31,556	6.24	159,375	157,781
$5.00	715.84	35.79	31,875	6.30	$3,579	99%	31,556	6.24	159,375	157,781
$7.50	421.15	21.06	31,875	0.13	$3,159	99%	31,556	0.13	159,375	157,781
$10.00	397.69	19.88	31,875	6.30	$3,977	99%	31,556	6.24	159,375	157,781
$100.00	125.65	6.28	63,750	8.35	$12,565	99%	63,112	8.26	956,250	946,687
$150.00	57.98	2.90	63,750	8.35	$8,697	99%	63,112	8.26	956,250	946,687
$8.00	452.24	22.61	31,875	6.05	$3,618	99%	31,556	5.99	478,125	473,344
$12.00	356.37	17.82	31,875	6.05	$4,276	99%	31,556	5.99	478,125	473,344
$16.00	197.54	9.88	31,875	6.05	$3,161	99%	31,556	5.99	478,125	473,344
$20.00	173.33	8.67	31,875	6.05	$3,467	99%	31,556	5.99	478,125	473,344
$7.50	718.72	35.94	87,429	19.29	$5,390	99%	86,554	19.10	1,311,429	1,298,314
$7.50	708.31	35.42	87,429	19.01	$5,312	99%	86,554	18.82	1,311,429	1,298,314
$15.00	465.45	23.27	87,429	19.46	$6,982	99%	86,554	19.26	1,311,429	1,298,314
$15.00	469.93	23.50	87,429	19.44	$7,049	99%	86,554	19.24	1,311,429	1,298,314
$17.50	381.82	19.09	87,429	20.50	$6,682	99%	86,554	20.29	1,311,429	1,298,314
$17.50	381.82	19.09	87,429	20.50	$6,682	99%	86,554	20.29	1,311,429	1,298,314
$17.50	237.25	11.86	87,429	17.33	$4,152	99%	86,554	17.16	1,311,429	1,298,314
$75.00	194.60	19.46	102,000	0.00	$14,595	99%	100,980	0.00	1,530,000	1,514,700
$90.00	132.60	13.26	102,000	0.00	$11,934	99%	100,980	0.00	1,530,000	1,514,700
$125.00	76.64	7.66	102,000	0.00	$9,580	99%	100,980	0.00	1,530,000	1,514,700
$470.00	30.66	3.07	102,000	22.26	$14,408	99%	100,980	22.03	1,020,000	1,009,800
$160.00	54.24	5.42	42,000	5.49	$8,679	99%	41,580	5.43	340,200	336,798
$15.00	347.23	115.74	81,600	10.42	$5,209	99%	80,784	10.31	1,305,600	1,292,544
$15.00	655.42	218.47	54,400	6.55	$9,831	99%	53,856	6.49	870,400	861,696
$20.00	195.13	97.57	59,500	0.00	$3,903	99%	58,905	0.00	535,500	530,145
$25.00	97.57	48.78	59,500	0.00	$2,439	99%	58,905	0.00	535,500	530,145

$40.00	9.93	4.96	8,182	0.33	$397	99%	8,100	0.33	122,727	121,500
$40.00	9.93	4.96	8,182	0.49	$397	99%	8,100	0.49	122,727	121,500
$125.00	5.08	2.54	8,182	0.00	$634	99%	8,100	0.00	49,091	48,600
$125.00	6.77	3.38	8,182	0.00	$846	99%	8,100	0.00	49,091	48,600
$55.00	19.39	9.69	8,182	0.97	$1,066	99%	8,100	0.96	49,091	48,600
$250.00	4.37	2.18	8,182	1.53	$1,091	99%	8,100	1.51	49,091	48,600
$16.00	39.01	1.95	4,091	0.65	$624	99%	4,050	0.65	32,727	32,400
$14.00	31.73	1.59	4,091	0.65	$444	99%	4,050	0.65	32,727	32,400
$20.00	18.27	0.91	4,091	0.65	$365	99%	4,050	0.65	32,727	32,400
$20.00	22.46	1.12	4,091	0.65	$449	99%	4,050	0.65	32,727	32,400
$50.00	15.13	7.56	8,182	0.00	$756	99%	8,100	0.00	98,182	97,200
$50.00	6.40	3.20	8,182	0.00	$320	99%	8,100	0.00	98,182	97,200
$25.00	10.39	5.20	4,091	0.00	$260	99%	4,050	0.00	65,455	64,800
$25.00	16.09	8.04	4,091	0.00	$402	99%	4,050	0.00	65,455	64,800
$50.00	1.77	0.89	4,091	0.55	$89	99%	4,050	0.54	65,455	64,800
$50.00	4.34	2.17	4,091	0.59	$217	99%	4,050	0.59	65,455	64,800
$75.00	34.23	1.14	16,364	0.00	$2,568	99%	16,200	0.00	163,636	162,000
$20.00	30.03	0.30	8,182	0.00	$601	99%	8,100	0.00	40,909	40,500
$20.00	30.03	0.60	8,182	0.00	$601	99%	8,100	0.00	40,909	40,500
$300.00	11.25	5.63	16,364	0.00	$3,376	99%	16,200	0.00	163,636	162,000
$40.00	6.47	0.65	8,182	0.00	$259	99%	8,100	0.00	122,727	121,500
$40.00	6.47	0.65	8,182	0.00	$259	99%	8,100	0.00	122,727	121,500
$40.00	6.47	0.65	8,182	0.00	$259	99%	8,100	0.00	122,727	121,500
$40.00	6.47	0.65	8,182	0.00	$259	99%	8,100	0.00	122,727	121,500
$3.00	929.75	46.49	22,500	5.00	$2,789	99%	22,275	4.95	180,000	178,200
$4.00	627.44	31.37	22,500	5.00	$2,510	99%	22,275	4.95	180,000	178,200
$3.00	1,649.56	82.48	22,500	5.00	$4,949	99%	22,275	4.95	180,000	178,200
$4.00	460.69	23.03	22,500	5.00	$1,843	99%	22,275	4.95	180,000	178,200
$4.00	59.03	2.95	30,000	0.00	$236	99%	29,700	0.00	300,000	297,000
$65.56		116	1,999,500	267	$201,175		1,979,505	265	25,790,609	25,532,703

Pct of Meas Cat	Pct of Pgm	Unit Name	EUL	Presc kWh Savings	kWh Svgs Per Unit	KW Svgs Per Unit	Units Per Install	Avg Units Project	IMC	$/kWh	Incentive / IMC	2014 SBDI Incentive	Proposed 2015
0.0%	0.0%	Lamp	3	N/A	78.68	0.030	1.00	20.00	$7.50	$0.05	53.33%	$ 8.00	N/A
0.0%	0.0%	Lamp	3	N/A	127.52	0.050	1.00	20.00	$7.50	$0.03	53.33%	$ 9.00	N/A
1.9%	1.6%	Lamp	5	N/A	26.72	0.005	1.00	20.00	$3.50	$0.09	71.43%	N/A	N/A
1.9%	1.6%	Lamp	5	N/A	44.53	0.009	1.00	20.00	$7.00	$0.11	71.43%	N/A	N/A
1.9%	1.6%	Lamp	5	N/A	75.69	0.000	1.00	20.00	$10.50	$0.10	71.43%	N/A	N/A
1.9%	1.6%	Lamp	5	N/A	80.15	0.016	1.00	20.00	$14.00	$0.12	71.43%	N/A	N/A
3.7%	3.2%	Lamp	15	N/A	507.36	0.066	1.00	20.00	$300.00	$0.20	33.33%	N/A	N/A
3.7%	3.2%	Lamp	15	N/A	1,099.47	0.144	1.00	20.00	$315.00	$0.14	47.62%	N/A	N/A
1.9%	1.6%	Lamp	15	80.09	70.48	0.013	1.00	20.00	$70.00	$0.11	11.43%	N/A	$ 4.00
1.9%	1.6%	Lamp	15	101.64	89.44	0.017	1.00	20.00	$79.00	$0.13	15.19%	N/A	$ 6.00
1.9%	1.6%	Lamp	15	183.36	161.36	0.031	1.00	20.00	$100.00	$0.10	16.00%	N/A	$ 8.00
1.9%	1.6%	Lamp	15	208.97	183.90	0.035	1.00	20.00	$105.00	$0.11	19.05%	N/A	$ 10.00
5.1%	4.4%	Lamp	15	138.23	121.64	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A	$ 7.50
5.1%	4.4%	Lamp	15	140.26	123.43	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A	$ 4.00
5.1%	4.4%	Lamp	15	213.45	187.84	0.042	1.00	20.00	$20.00	$0.08	75.00%	N/A	$ 10.00
5.1%	4.4%	Lamp	15	211.41	186.04	0.041	1.00	20.00	$22.00	$0.08	68.18%	N/A	$ 7.50
5.1%	4.4%	Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A	$ 12.50
5.1%	4.4%	Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A	$ 12.50
5.1%	4.4%	Lamp	15	418.76	368.51	0.073	1.00	20.00	$25.00	$0.05	70.00%	N/A	$ 20.00
6.0%	5.1%	Lamp	15	595.62	524.14	0.000	1.00	10.00	$210	$0.14	35.73%	N/A	$ 30.00
6.0%	5.1%	Lamp	15	874.11	769.22	0.000	1.00	10.00	$270	$0.12	33.35%	N/A	$ 40.00
6.0%	5.1%	Lamp	15	#####	1,330.93	0.000	1.00	10.00	$350	$0.09	35.72%	N/A	$ 50.00
6.0%	5.1%	Fixture	10	#####	3,327.33	0.726	1.00	10.00	$2,900	$0.14	16.21%	$ 470.00	$ 175.00
0.0%	2.1%	Lamp	8		774.30	0.101	1.00	10.00	$380	$0.21	42.11%	N/A	$ 80.00
4.8%	4.1%	Fixture	16	235.00	235.00	0.030	1.00	3.00	$30	$0.06	50.00%	$ 21.00	$ 7.50
3.2%	2.7%	Fixture	16	83.00	83.00	0.010	1.00	3.00	$30	$0.18	50.00%	$ 21.00	$ 7.50
3.5%	3.0%	Unit	9	304.92	304.92	0.000	1.00	2.00	$66	$0.07	30.30%	$ 34.00	$ 15.00
3.5%	3.0%	Unit	9	609.85	609.85	0.000	1.00	2.00	$43	$0.04	58.14%	$ 30.00	$ 25.00

2.7%	0.4%	Unit	15	824.00	824.00	0.033	1.00	2.00	$78	$0.05	51.28%	$ 40.00	$ 25.00
2.7%	0.4%	Unit	15	824.00	824.00	0.050	1.00	2.00	$78	$0.05	51.28%	$ 45.00	$ 25.00
2.7%	0.4%	Fixture	6	N/A	1,612.00	0.000	1.00	2.00	$225	$0.08	55.56%	$ 150.00	N/A
2.7%	0.4%	Lamp	6	N/A	1,209.00	0.000	1.00	2.00	$225	$0.10	55.56%	$ 150.00	N/A
2.7%	0.4%	Unit	6	N/A	422.00	0.050	1.00	2.00	$429	$0.13	12.81%	$ 55.00	N/A
2.7%	0.4%	Unit	6	N/A	1,874.00	0.350	1.00	2.00	$429	$0.13	58.24%	$ 300.00	N/A
1.4%	0.2%	Door	8	104.88	104.88	0.017	1.00	20.00	$250	$0.15	6.40%	$ 16.00	$ 16.00
1.4%	0.2%	Door	8	128.91	128.91	0.021	1.00	20.00	$250	$0.11	5.60%	$ 14.00	$ 14.00
1.4%	0.2%	Door	8	223.91	223.91	0.036	1.00	20.00	$250	$0.09	8.00%	$ 14.00	$ 20.00
1.4%	0.2%	Door	8	182.16	182.16	0.029	1.00	20.00	$250	$0.11	8.00%	$ 16.00	$ 20.00
2.7%	0.4%	Unit	12	540.77	540.77	0.000	1.00	2.00	$100	$0.09	50.00%	$ 45.00	$ 25.00
2.7%	0.4%	Unit	12	#####	1,277.73	0.000	1.00	2.00	$100	$0.04	50.00%	$ 60.00	$ 25.00
1.4%	0.2%	Door	16	393.62	393.62	0.000	1.00	2.00	$51	$0.06	48.86%	$ 75.00	$ 12.50
1.4%	0.2%	Door	16	254.32	254.32	0.000	1.00	2.00	$33	$0.10	75.62%	$ 50.00	$ 12.50
1.4%	0.2%	Door	16	#####	2,307.00	0.309	1.00	2.00	$157	$0.02	31.88%	$ 200.00	$ 25.00
1.4%	0.2%	Door	16	943.00	943.00	0.137	1.00	2.00	$157	$0.05	31.88%	$ 130.00	$ 25.00
5.5%	0.8%	per Fan	10	478.00	478.00	0.000	15.00	30.00	$291	$0.16	25.77%	$ 60.00	$ 45.00
2.7%	0.4%	per Case	5	272.50	272.50	0.000	50.00	100.00	$42	$0.07	47.62%	$ 30.00	$ 10.00
2.7%	0.4%	per Case	5	272.50	272.50	0.000	25.00	50.00	$42	$0.07	47.62%	$ 28.00	$ 10.00
5.5%	0.8%	Unit	10	#####	1,454.00	0.000	1.00	2.00	$670	$0.21	44.78%	$ 1,285.00	$ 150.00
2.7%	0.4%	HP	15	#####	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 32.00	$ 20.00
2.7%	0.4%	HP	15	#####	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 30.00	$ 20.00
2.7%	0.4%	HP	15	#####	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 18.00	$ 20.00
2.7%	0.4%	HP	15	#####	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 17.00	$ 20.00
7.5%	1.1%	Linear Ft	8	27.50	24.20	0.005	1.00	20.00	$23	$0.12	13.04%	$ 14.00	$ 3.00
7.5%	1.1%	Linear Ft	8	40.75	35.86	0.008	1.00	20.00	$23	$0.11	17.39%	$ 16.00	$ 4.00
7.5%	1.1%	Linear Ft	8	15.50	13.64	0.003	1.00	20.00	$34	$0.22	8.82%	$ 14.00	$ 3.00
7.5%	1.1%	Linear Ft	8	55.50	48.84	0.011	1.00	20.00	$34	$0.08	11.76%	$ 16.00	$ 4.00
10.0%	1.5%	Door	10	508.25	508.25	0.000	1.00	20.00	$5	$0.01	76.92%	$ 2.00	$ 2.50
197.5%	100.0%		12.90						$668,377		45.09%		

2018

Incentive			Participation		Total Energy Savings (kWh)	KW Savings	Incentives Paid	Net to Gross	Total Net Annual Energy Savings	Net Annual Demand Savings	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)
Previous	Per unit	% Chg	Units	Participants								
$ 4.00	$4.00	0.0%	0.00	0.00	0	0.00	$0	99%	0	0	0	0
$ 4.00	$4.00	0.0%	0.00	0.00	0	0.00	$0	99%	0	0.00	0	0
$ 2.00	$2.50	25.0%	1,073.76	53.69	28,687	5.67	$2,684	99%	28,401	5.61	143,437	142,003
$ 4.00	$5.00	25.0%	644.26	32.21	28,687	5.67	$3,221	99%	28,401	5.61	143,437	142,003
$ 6.00	$7.50	25.0%	379.03	18.95	28,687	0.12	$2,843	99%	28,401	0.12	143,437	142,003
$ 8.00	$10.00	25.0%	357.92	17.90	28,687	5.67	$3,579	99%	28,401	5.61	143,437	142,003
$ 60.00	$100.00	66.7%	113.09	5.65	57,375	7.51	$11,309	99%	56,801	7.44	860,625	852,019
$ 125.00	$150.00	20.0%	52.18	2.61	57,375	7.51	$7,828	99%	56,801	7.44	860,625	852,019
$ 5.00	$8.00	60.0%	407.02	20.35	28,687	5.44	$3,256	99%	28,401	5.39	430,312	426,009
$ 7.50	$12.00	60.0%	320.73	16.04	28,687	5.44	$3,849	99%	28,401	5.39	430,312	426,009
$ 10.00	$16.00	60.0%	177.79	8.89	28,687	5.44	$2,845	99%	28,401	5.39	430,312	426,009
$ 12.00	$20.00	66.7%	156.00	7.80	28,687	5.44	$3,120	99%	28,401	5.39	430,312	426,009
$ 10.00	$7.50	-25.0%	646.85	32.34	78,686	17.36	$4,851	99%	77,899	17.19	1,180,286	1,168,483
$ 5.00	$7.50	50.0%	637.48	31.87	78,686	17.11	$4,781	99%	77,899	16.94	1,180,286	1,168,483
$ 13.00	$15.00	15.4%	418.91	20.95	78,686	17.51	$6,284	99%	77,899	17.34	1,180,286	1,168,483
$ 9.00	$15.00	66.7%	422.94	21.15	78,686	17.49	$6,344	99%	77,899	17.32	1,180,286	1,168,483
$ 15.00	$17.50	16.7%	343.64	17.18	78,686	18.45	$6,014	99%	77,899	18.26	1,180,286	1,168,483
$ 18.00	$17.50	-2.8%	343.64	17.18	78,686	18.45	$6,014	99%	77,899	18.26	1,180,286	1,168,483
$ 24.00	$17.50	-27.1%	213.52	10.68	78,686	15.60	$3,737	99%	77,899	15.44	1,180,286	1,168,483
$ 60.00	$75.00	25.0%	175.14	17.51	91,800	0.00	$13,136	99%	90,882	0.00	1,377,000	1,363,230
$ 80.00	$90.00	12.5%	119.34	11.93	91,800	0.00	$10,741	99%	90,882	0.00	1,377,000	1,363,230
$ 100.00	$125.00	25.0%	68.97	6.90	91,800	0.00	$8,622	99%	90,882	0.00	1,377,000	1,363,230
$ 470.00	$470.00	0.0%	27.59	2.76	91,800	20.03	$12,967	99%	90,882	19.83	918,000	908,820
$ 160.00	$160.00	0.0%	48.82	4.88	37,800	4.94	$7,811	99%	37,422	4.89	306,180	303,118
$ 15.00	$15.00	0.0%	312.51	104.17	73,440	9.38	$4,688	99%	72,706	9.28	1,175,040	1,163,290
$ 15.00	$15.00	0.0%	589.88	196.63	48,960	5.90	$8,848	99%	48,470	5.84	783,360	775,526
$ 20.00	$20.00	0.0%	175.62	87.81	53,550	0.00	$3,512	99%	53,015	0.00	481,950	477,131
$ 25.00	$25.00	0.0%	87.81	43.90	53,550	0.00	$2,195	99%	53,015	0.00	481,950	477,131

$ 40.00	$40.00	0.0%	8.94	4.47	7,364	0.30	$357	99%	7,290	0.29	110,455	109,350
$ 40.00	$40.00	0.0%	8.94	4.47	7,364	0.44	$357	99%	7,290	0.44	110,455	109,350
$ 125.00	$125.00	0.0%	4.57	2.28	7,364	0.00	$571	99%	7,290	0.00	44,182	43,740
$ 125.00	$125.00	0.0%	6.09	3.05	7,364	0.00	$761	99%	7,290	0.00	44,182	43,740
$ 55.00	$55.00	0.0%	17.45	8.72	7,364	0.87	$960	99%	7,290	0.86	44,182	43,740
$ 250.00	$250.00	0.0%	3.93	1.96	7,364	1.38	$982	99%	7,290	1.36	44,182	43,740
$ 16.00	$16.00	0.0%	35.11	1.76	3,682	0.59	$562	99%	3,645	0.58	29,455	29,160
$ 14.00	$14.00	0.0%	28.56	1.43	3,682	0.59	$400	99%	3,645	0.58	29,455	29,160
$ 20.00	$20.00	0.0%	16.44	0.82	3,682	0.59	$329	99%	3,645	0.58	29,455	29,160
$ 20.00	$20.00	0.0%	20.21	1.01	3,682	0.59	$404	99%	3,645	0.58	29,455	29,160
$ 50.00	$50.00	0.0%	13.62	6.81	7,364	0.00	$681	99%	7,290	0.00	88,364	87,480
$ 50.00	$50.00	0.0%	5.76	2.88	7,364	0.00	$288	99%	7,290	0.00	88,364	87,480
$ 25.00	$25.00	0.0%	9.35	4.68	3,682	0.00	$234	99%	3,645	0.00	58,909	58,320
$ 25.00	$25.00	0.0%	14.48	7.24	3,682	0.00	$362	99%	3,645	0.00	58,909	58,320
$ 50.00	$50.00	0.0%	1.60	0.80	3,682	0.49	$80	99%	3,645	0.49	58,909	58,320
$ 50.00	$50.00	0.0%	3.90	1.95	3,682	0.53	$195	99%	3,645	0.53	58,909	58,320
$ 75.00	$75.00	0.0%	30.81	1.03	14,727	0.00	$2,311	99%	14,580	0.00	147,273	145,800
$ 20.00	$20.00	0.0%	27.02	0.27	7,364	0.00	$540	99%	7,290	0.00	36,818	36,450
$ 20.00	$20.00	0.0%	27.02	0.54	7,364	0.00	$540	99%	7,290	0.00	36,818	36,450
$ 300.00	$300.00	0.0%	10.13	5.06	14,727	0.00	$3,039	99%	14,580	0.00	147,273	145,800
$ 40.00	$40.00	0.0%	5.83	0.58	7,364	0.00	$233	99%	7,290	0.00	110,455	109,350
$ 40.00	$40.00	0.0%	5.83	0.58	7,364	0.00	$233	99%	7,290	0.00	110,455	109,350
$ 40.00	$40.00	0.0%	5.83	0.58	7,364	0.00	$233	99%	7,290	0.00	110,455	109,350
$ 40.00	$40.00	0.0%	5.83	0.58	7,364	0.00	$233	99%	7,290	0.00	110,455	109,350
$ 3.00	$3.00	0.0%	836.78	41.84	20,250	4.50	$2,510	99%	20,048	4.46	162,000	160,380
$ 4.00	$4.00	0.0%	564.70	28.23	20,250	4.50	$2,259	99%	20,048	4.46	162,000	160,380
$ 3.00	$3.00	0.0%	1,484.60	74.23	20,250	4.50	$4,454	99%	20,048	4.45	162,000	160,380
$ 4.00	$4.00	0.0%	414.62	20.73	20,250	4.50	$1,658	99%	20,048	4.45	162,000	160,380
$ 5.00	$4.00	-20.0%	53.12	2.66	27,000	0.00	$212	99%	26,730	0.00	270,000	267,300
	$65.56			104	1,799,550	241	$181,057		1,781,554	238	23,211,548	22,979,432

Pct of Meas Cat	Pct of Pgm	Unit Name	EUL	Presc kWh Savings	kWh Svgs Per Unit	KW Svgs Per Unit	Units Per Install	Avg Units Project	IMC	$/kWh	Incentive / IMC	2014 SBDI Incentive
0.0%	0.0%	Lamp	3	N/A	78.68	0.030	1.00	20.00	$7.50	$0.05	53.33%	$ 8.00
0.0%	0.0%	Lamp	3	N/A	127.52	0.050	1.00	20.00	$7.50	$0.03	53.33%	$ 9.00
1.9%	1.6%	Lamp	5	N/A	26.72	0.005	1.00	20.00	$3.50	$0.09	71.43%	N/A
1.9%	1.6%	Lamp	5	N/A	44.53	0.009	1.00	20.00	$7.00	$0.11	71.43%	N/A
1.9%	1.6%	Lamp	5	N/A	75.69	0.000	1.00	20.00	$10.50	$0.10	71.43%	N/A
1.9%	1.6%	Lamp	5	N/A	80.15	0.016	1.00	20.00	$14.00	$0.12	71.43%	N/A
3.7%	3.2%	Lamp	15	N/A	507.36	0.066	1.00	20.00	$300.00	$0.20	33.33%	N/A
3.7%	3.2%	Lamp	15	N/A	1,099.47	0.144	1.00	20.00	$315.00	$0.14	47.62%	N/A
1.9%	1.6%	Lamp	15	80.09	70.48	0.013	1.00	20.00	$70.00	$0.11	11.43%	N/A
1.9%	1.6%	Lamp	15	101.64	89.44	0.017	1.00	20.00	$79.00	$0.13	15.19%	N/A
1.9%	1.6%	Lamp	15	183.36	161.36	0.031	1.00	20.00	$100.00	$0.10	16.00%	N/A
1.9%	1.6%	Lamp	15	208.97	183.90	0.035	1.00	20.00	$105.00	$0.11	19.05%	N/A
5.1%	4.4%	Lamp	15	138.23	121.64	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A
5.1%	4.4%	Lamp	15	140.26	123.43	0.027	1.00	20.00	$10.00	$0.06	75.00%	N/A
5.1%	4.4%	Lamp	15	213.45	187.84	0.042	1.00	20.00	$20.00	$0.08	75.00%	N/A
5.1%	4.4%	Lamp	15	211.41	186.04	0.041	1.00	20.00	$22.00	$0.08	68.18%	N/A
5.1%	4.4%	Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A
5.1%	4.4%	Lamp	15	260.20	228.98	0.054	1.00	20.00	$25.00	$0.08	70.00%	N/A
5.1%	4.4%	Lamp	15	418.76	368.51	0.073	1.00	20.00	$25.00	$0.05	70.00%	N/A
6.0%	5.1%	Lamp	15	595.62	524.14	0.000	1.00	10.00	$210	$0.14	35.73%	N/A
6.0%	5.1%	Lamp	15	874.11	769.22	0.000	1.00	10.00	$270	$0.12	33.35%	N/A
6.0%	5.1%	Lamp	15	1,512.42	1,330.93	0.000	1.00	10.00	$350	$0.09	35.72%	N/A
6.0%	5.1%	Fixture	10	3,781.05	3,327.33	0.726	1.00	10.00	$2,900	$0.14	16.21%	$ 470.00
0.0%	2.1%	Lamp	8		774.30	0.101	1.00	10.00	$380	$0.21	42.11%	N/A
4.8%	4.1%	Fixture	16	235.00	235.00	0.030	1.00	3.00	$30	$0.06	50.00%	$ 21.00
3.2%	2.7%	Fixture	16	83.00	83.00	0.010	1.00	3.00	$30	$0.18	50.00%	$ 21.00
3.5%	3.0%	Unit	9	304.92	304.92	0.000	1.00	2.00	$66	$0.07	30.30%	$ 34.00
3.5%	3.0%	Unit	9	609.85	609.85	0.000	1.00	2.00	$43	$0.04	58.14%	$ 30.00

2.7%	0.4%	Unit	15	824.00	824.00	0.033	1.00	2.00	$78	$0.05	51.28%	$ 40.00
2.7%	0.4%	Unit	15	824.00	824.00	0.050	1.00	2.00	$78	$0.05	51.28%	$ 45.00
2.7%	0.4%	Fixture	6	N/A	1,612.00	0.000	1.00	2.00	$225	$0.08	55.56%	$ 150.00
2.7%	0.4%	Lamp	6	N/A	1,209.00	0.000	1.00	2.00	$225	$0.10	55.56%	$ 150.00
2.7%	0.4%	Unit	6	N/A	422.00	0.050	1.00	2.00	$429	$0.13	12.81%	$ 55.00
2.7%	0.4%	Unit	6	N/A	1,874.00	0.350	1.00	2.00	$429	$0.13	58.24%	$ 300.00
1.4%	0.2%	Door	8	104.88	104.88	0.017	1.00	20.00	$250	$0.15	6.40%	$ 16.00
1.4%	0.2%	Door	8	128.91	128.91	0.021	1.00	20.00	$250	$0.11	5.60%	$ 14.00
1.4%	0.2%	Door	8	223.91	223.91	0.036	1.00	20.00	$250	$0.09	8.00%	$ 14.00
1.4%	0.2%	Door	8	182.16	182.16	0.029	1.00	20.00	$250	$0.11	8.00%	$ 16.00
2.7%	0.4%	Unit	12	540.77	540.77	0.000	1.00	2.00	$100	$0.09	50.00%	$ 45.00
2.7%	0.4%	Unit	12	1,277.73	1,277.73	0.000	1.00	2.00	$100	$0.04	50.00%	$ 60.00
1.4%	0.2%	Door	16	393.62	393.62	0.000	1.00	2.00	$51	$0.06	48.86%	$ 75.00
1.4%	0.2%	Door	16	254.32	254.32	0.000	1.00	2.00	$33	$0.10	75.62%	$ 50.00
1.4%	0.2%	Door	16	2,307.00	2,307.00	0.309	1.00	2.00	$157	$0.02	31.88%	$ 200.00
1.4%	0.2%	Door	16	943.00	943.00	0.137	1.00	2.00	$157	$0.05	31.88%	$ 130.00
5.5%	0.8%	per Fan	10	478.00	478.00	0.000	15.00	30.00	$291	$0.16	25.77%	$ 60.00
2.7%	0.4%	per Case	5	272.50	272.50	0.000	50.00	100.00	$42	$0.07	47.62%	$ 30.00
2.7%	0.4%	per Case	5	272.50	272.50	0.000	25.00	50.00	$42	$0.07	47.62%	$ 28.00
5.5%	0.8%	Unit	10	1,454.00	1,454.00	0.000	1.00	2.00	$670	$0.21	44.78%	$ 1,285.00
2.7%	0.4%	HP	15	1,264.00	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 32.00
2.7%	0.4%	HP	15	1,264.00	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 30.00
2.7%	0.4%	HP	15	1,264.00	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 18.00
2.7%	0.4%	HP	15	1,264.00	1,264.00	0.000	15.00	10.00	$80	$0.03	50.00%	$ 17.00
7.5%	1.1%	Linear Ft	8	27.50	24.20	0.005	1.00	20.00	$23	$0.12	13.04%	$ 14.00
7.5%	1.1%	Linear Ft	8	40.75	35.86	0.008	1.00	20.00	$23	$0.11	17.39%	$ 16.00
7.5%	1.1%	Linear Ft	8	15.50	13.64	0.003	1.00	20.00	$34	$0.22	8.82%	$ 14.00
7.5%	1.1%	Linear Ft	8	55.50	48.84	0.011	1.00	20.00	$34	$0.08	11.76%	$ 16.00
10.0%	1.5%	Door	10	508.25	508.25	0.000	1.00	20.00	$5	$0.01	76.92%	$ 2.00
197.5%	100.0%		12.90						$668,377		45.09%	

2019

	Incentive			Participation		Total Energy Savings (kWh)	KW Savings	Incentives Paid	Net to Gross	Total Net Annual Energy Savings	Net Annual Demand Savings	Lifetime Gross Energy Savings (kWh)
Proposed 2015	Previous	Per unit	% Chg	Units	Participants							
N/A	$ 4.00	$4.00	0.0%	0.00	0.00	0	0.00	$0	99%	0	0	0
N/A	$ 4.00	$4.00	0.0%	0.00	0.00	0	0.00	$0	99%	0	0.00	0
N/A	$ 2.00	$2.50	25.0%	954.46	47.72	25,500	5.04	$2,386	99%	25,245	4.99	127,500
N/A	$ 4.00	$5.00	25.0%	572.67	28.63	25,500	5.04	$2,863	99%	25,245	4.99	127,500
N/A	$ 6.00	$7.50	25.0%	336.92	16.85	25,500	0.11	$2,527	99%	25,245	0.11	127,500
N/A	$ 8.00	$10.00	25.0%	318.15	15.91	25,500	5.04	$3,182	99%	25,245	4.99	127,500
N/A	$ 60.00	$100.00	66.7%	100.52	5.03	51,000	6.68	$10,052	99%	50,490	6.61	765,000
N/A	$ 125.00	$150.00	20.0%	46.39	2.32	51,000	6.68	$6,958	99%	50,490	6.61	765,000
$ 4.00	$ 5.00	$8.00	60.0%	361.79	18.09	25,500	4.84	$2,894	99%	25,245	4.79	382,500
$ 6.00	$ 7.50	$12.00	60.0%	285.09	14.25	25,500	4.84	$3,421	99%	25,245	4.79	382,500
$ 8.00	$ 10.00	$16.00	60.0%	158.03	7.90	25,500	4.84	$2,529	99%	25,245	4.79	382,500
$ 10.00	$ 12.00	$20.00	66.7%	138.66	6.93	25,500	4.84	$2,773	99%	25,245	4.79	382,500
$ 7.50	$ 10.00	$7.50	-25.0%	574.98	28.75	69,943	15.43	$4,312	99%	69,243	15.28	1,049,143
$ 4.00	$ 5.00	$7.50	50.0%	566.65	28.33	69,943	15.21	$4,250	99%	69,243	15.06	1,049,143
$ 10.00	$ 13.00	$15.00	15.4%	372.36	18.62	69,943	15.56	$5,585	99%	69,243	15.41	1,049,143
$ 7.50	$ 9.00	$15.00	66.7%	375.95	18.80	69,943	15.55	$5,639	99%	69,243	15.39	1,049,143
$ 12.50	$ 15.00	$17.50	16.7%	305.46	15.27	69,943	16.40	$5,346	99%	69,243	16.23	1,049,143
$ 12.50	$ 18.00	$17.50	-2.8%	305.46	15.27	69,943	16.40	$5,346	99%	69,243	16.23	1,049,143
$ 20.00	$ 24.00	$17.50	-27.1%	189.80	9.49	69,943	13.86	$3,321	99%	69,243	13.72	1,049,143
$ 30.00	$ 60.00	$75.00	25.0%	155.68	15.57	81,600	0.00	$11,676	99%	80,784	0.00	1,224,000
$ 40.00	$ 80.00	$90.00	12.5%	106.08	10.61	81,600	0.00	$9,547	99%	80,784	0.00	1,224,000
$ 50.00	$ 100.00	$125.00	25.0%	61.31	6.13	81,600	0.00	$7,664	99%	80,784	0.00	1,224,000
$ 175.00	$ 470.00	$470.00	0.0%	24.52	2.45	81,600	17.80	$11,526	99%	80,784	17.63	816,000
$ 80.00	$ 160.00	$160.00	0.0%	43.39	4.34	33,600	4.39	$6,943	99%	33,264	4.35	272,160
$ 7.50	$ 15.00	$15.00	0.0%	277.79	92.60	65,280	8.33	$4,167	99%	64,627	8.25	1,044,480
$ 7.50	$ 15.00	$15.00	0.0%	524.34	174.78	43,520	5.24	$7,865	99%	43,085	5.19	696,320
$ 15.00	$ 20.00	$20.00	0.0%	156.10	78.05	47,600	0.00	$3,122	99%	47,124	0.00	428,400
$ 25.00	$ 25.00	$25.00	0.0%	78.05	39.03	47,600	0.00	$1,951	99%	47,124	0.00	428,400

$ 25.00	$ 40.00	$40.00	0.0%	7.94	3.97	6,545	0.26	$318	99%	6,480	0.26	98,182
$ 25.00	$ 40.00	$40.00	0.0%	7.94	3.97	6,545	0.39	$318	99%	6,480	0.39	98,182
N/A	$ 125.00	$125.00	0.0%	4.06	2.03	6,545	0.00	$508	99%	6,480	0.00	39,273
N/A	$ 125.00	$125.00	0.0%	5.41	2.71	6,545	0.00	$677	99%	6,480	0.00	39,273
N/A	$ 55.00	$55.00	0.0%	15.51	7.76	6,545	0.78	$853	99%	6,480	0.77	39,273
N/A	$ 250.00	$250.00	0.0%	3.49	1.75	6,545	1.22	$873	99%	6,480	1.21	39,273
$ 16.00	$ 16.00	$16.00	0.0%	31.20	1.56	3,273	0.52	$499	99%	3,240	0.52	26,182
$ 14.00	$ 14.00	$14.00	0.0%	25.39	1.27	3,273	0.52	$355	99%	3,240	0.52	26,182
$ 20.00	$ 20.00	$20.00	0.0%	14.62	0.73	3,273	0.52	$292	99%	3,240	0.52	26,182
$ 20.00	$ 20.00	$20.00	0.0%	17.97	0.90	3,273	0.52	$359	99%	3,240	0.52	26,182
$ 25.00	$ 50.00	$50.00	0.0%	12.10	6.05	6,545	0.00	$605	99%	6,480	0.00	78,545
$ 25.00	$ 50.00	$50.00	0.0%	5.12	2.56	6,545	0.00	$256	99%	6,480	0.00	78,545
$ 12.50	$ 25.00	$25.00	0.0%	8.31	4.16	3,273	0.00	$208	99%	3,240	0.00	52,364
$ 12.50	$ 25.00	$25.00	0.0%	12.87	6.43	3,273	0.00	$322	99%	3,240	0.00	52,364
$ 25.00	$ 50.00	$50.00	0.0%	1.42	0.71	3,273	0.44	$71	99%	3,240	0.43	52,364
$ 25.00	$ 50.00	$50.00	0.0%	3.47	1.74	3,273	0.48	$174	99%	3,240	0.47	52,364
$ 45.00	$ 75.00	$75.00	0.0%	27.39	0.91	13,091	0.00	$2,054	99%	12,960	0.00	130,909
$ 10.00	$ 20.00	$20.00	0.0%	24.02	0.24	6,545	0.00	$480	99%	6,480	0.00	32,727
$ 10.00	$ 20.00	$20.00	0.0%	24.02	0.48	6,545	0.00	$480	99%	6,480	0.00	32,727
$ 150.00	$ 300.00	$300.00	0.0%	9.00	4.50	13,091	0.00	$2,701	99%	12,960	0.00	130,909
$ 20.00	$ 40.00	$40.00	0.0%	5.18	0.52	6,545	0.00	$207	99%	6,480	0.00	98,182
$ 20.00	$ 40.00	$40.00	0.0%	5.18	0.52	6,545	0.00	$207	99%	6,480	0.00	98,182
$ 20.00	$ 40.00	$40.00	0.0%	5.18	0.52	6,545	0.00	$207	99%	6,480	0.00	98,182
$ 20.00	$ 40.00	$40.00	0.0%	5.18	0.52	6,545	0.00	$207	99%	6,480	0.00	98,182
$ 3.00	$ 3.00	$3.00	0.0%	743.80	37.19	18,000	4.00	$2,231	99%	17,820	3.96	144,000
$ 4.00	$ 4.00	$4.00	0.0%	501.95	25.10	18,000	4.00	$2,008	99%	17,820	3.96	144,000
$ 3.00	$ 3.00	$3.00	0.0%	1,319.65	65.98	18,000	4.00	$3,959	99%	17,820	3.96	144,000
$ 4.00	$ 4.00	$4.00	0.0%	368.55	18.43	18,000	4.00	$1,474	99%	17,820	3.96	144,000
$ 2.50	$ 5.00	$4.00	-20.0%	47.22	2.36	24,000	0.00	$189	99%	23,760	0.00	240,000
		$65.56			93	1,599,600	214	$160,940		1,583,604	212	20,632,487

Lifetime Net Energy Savings (kWh)
0
0
126,225
126,225
126,225
126,225
757,350
757,350
378,675
378,675
378,675
378,675
1,038,651
1,038,651
1,038,651
1,038,651
1,038,651
1,038,651
1,038,651
1,211,760
1,211,760
1,211,760
807,840
269,438
1,034,035
689,357
424,116
424,116

97,200
97,200
38,880
38,880
38,880
38,880
25,920
25,920
25,920
25,920
77,760
77,760
51,840
51,840
51,840
51,840
129,600
32,400
32,400
129,600
97,200
97,200
97,200
97,200
142,560
142,560
142,560
142,560
237,600
20,426,162

Work Prescriptive Rebates

							2017															2018									
% of Measure Class	Measure	Replaced Measure	EUL	Unit	kWh Per Unit	KW Per Unit	Proposed Incentive	Incentive Basis	IMC	OLD	# Units	Total Gross Annual Energy Savings (kWh)	Total Gross Annual Demand Savings (kW)	Net to Gross	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Annual Energy Savings (kWh)	Lifetime Net Annual Energy Savings (kWh)	Total Incentive ($)	Incentive $/kWh	% Incr Cost	Proposed Incentive	Incentive Basis	IMC	OLD	# Units	Total Gross Annual Energy Savings (kWh)	Total Gross Annual Demand Savings (kW)	Net to Gross	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Annual Energy Savings (kWh)
5%	T5 28W Garage 1 lamp	75W-100W HID	15	Fixture	187.02	0.04	$10.00	1.00	$101.79	$ 107.00	1,689	315,800	60	89%	281,062	53	4,737,000	4,215,930	16,886	$0.05	9.82%	$10.00	1.00	$101.79	$ 107.00	802	150,000	28	89%	133,500	25	2,250,000
5%	T5 28W Garage 3 lamp	>= 176W HID	15	Fixture	764.34	0.15	$40.00	1.00	$240.98	$ 124.00	413	315,800	60	89%	281,062	53	4,737,000	4,215,930	16,527	$0.05	16.60%	$40.00	1.00	$240.98	$ 124.00	196	150,000	28	89%	133,500	25	2,250,000
10%	T5 54W HO Highbay 4ft 2L	150W-175W HID	15	Fixture	369.97	0.07	$30.00	1.00	$60.00	$ 150.00	1,707	631,600	120	89%	562,124	107	9,474,000	8,431,860	51,214	$0.08	50.00%	$30.00	1.00	$60.00	$ 150.00	811	300,000	57	89%	267,000	51	4,500,000
10%	T5 54W HO Highbay 4ft 3L	176W 250W HID	15	Fixture	463.48	0.09	$37.50	1.00	$75.00	$ 150.00	1,363	631,600	120	89%	562,124	107	9,474,000	8,431,860	51,102	$0.08	50.00%	$37.50	1.00	$75.00	$ 150.00	647	300,000	57	89%	267,000	51	4,500,000
10%	T5 54W HO Highbay 4ft 4L	251W - 400W HID	15	Fixture	910.71	0.17	$50.00	1.00	$100.00	$ 150.00	694	631,600	120	89%	562,124	107	9,474,000	8,431,860	34,676	$0.05	50.00%	$50.00	1.00	$100.00	$ 150.00	329	300,000	57	89%	267,000	51	4,500,000
20%	T5 54W HO Highbay 4ft 6L	251W - 400W HID	15	Fixture	1,427.04	0.27	$75.00	1.00	$150.00	$ 150.00	885	1,263,200	240	89%	1,124,248	213	18,948,000	16,863,720	66,389	$0.05	50.00%	$75.00	1.00	$150.00	$ 150.00	420	600,000	114	89%	534,000	101	9,000,000
20%	T5 54W HO Highbay 4ft - 10L	1,000W HID	15	Fixture	2,602.02	0.49	$200.00	1.00	$916.02	$ 300.00	485	1,263,200	240	89%	1,124,248	213	18,948,000	16,863,720	97,094	$0.08	21.83%	$200.00	1.00	$916.02	$ 300.00	231	600,000	114	89%	534,000	101	9,000,000
20%	T5 54W HO Highbay 4ft - 12L	1,000W HID	15	Fixture	2,162.93	0.41	$200.00	1.00	$1,435.26	$ 300.00	584	1,263,200	240	89%	1,124,248	213	18,948,000	16,863,720	116,805	$0.09	13.93%	$200.00	1.00	$1,435.26	$ 300.00	277	600,000	114	89%	534,000	101	9,000,000
48%	CFL Screw In (bulb only) < 30W	Incandescent >= 60W	12	Bulb	126.04	0.02	$2.00	1.00	$13.69	$ 3.00	0	0	0	89%	0	0	0	0	0	$0.02	14.61%	$2.00	1.00	$13.69	$ 3.00	0	0	0	89%	0	0	0
48%	CFL Screw In (bulb only) 30W or greater	Incandescent >= 100W	12	Bulb	447.22	0.08	$5.00	1.00	$15.52	$ 3.00	0	0	0	89%	0	0	0	0	0	$0.01	32.22%	$5.00	1.00	$15.52	$ 3.00	0	0	0	89%	0	0	0
5%	CFL hardwired fixture	Incandescent >= 100W Fixture Replacement	12	Fixture	447.22	0.08	$12.50	1.00	$57.19	$ 35.00	0	0	0	89%	0	0	0	0	0	$0.03	21.86%	$12.50	1.00	$57.19	$ 35.00	0	0	0	89%	0	0	0
1%	LED exit sign (Retrofit Lamp Kit)	CFL or Incandescent	16	Fixture	83.00	0.01	$7.50	1.00	$30.00	$ 30.00	2,041	169,440	20	89%	150,801	18	2,711,034	2,412,821	15,311	$0.09	25.00%	$7.50	1.00	$30.00	$ 30.00	1,807	150,000	18	89%	133,500	16	2,400,000
2%	Incandescent to LED 12.5W	Incandescent 60W	15	Bulb	213.45	0.04	$10.00	1.00	$16.33	$ 15.00	1,588	338,879	64	89%	301,603	57	5,083,190	4,524,039	15,877	$0.05	61.24%	$10.00	1.00	$16.33	$ 15.00	1,406	300,000	57	89%	267,000	51	4,500,000
2%	Incandescent to LED 17W	Incandescent 100W	15	Bulb	418.76	0.08	$20.00	1.00	$38.99	$ 18.75	809	338,879	64	89%	301,603	57	5,083,190	4,524,039	16,185	$0.05	51.30%	$20.00	1.00	$38.99	$ 18.75	716	300,000	57	89%	267,000	51	4,500,000
2%	Incandescent to LED 9.5W	Incandescent 40W	15	Bulb	138.23	0.03	$7.50	1.00	$13.32	$ 7.50	2,452	338,879	64	89%	301,603	57	5,083,190	4,524,039	18,386	$0.05	56.31%	$7.50	1.00	$13.32	$ 7.50	2,170	300,000	57	89%	267,000	51	4,500,000
2%	Incandescent to LED 14W	Incandescent 75W	15	Bulb	260.20	0.05	$12.50	1.00	$28.30	$ 18.75	1,302	338,879	64	89%	301,603	57	5,083,190	4,524,039	16,280	$0.05	44.17%	$12.50	1.00	$28.30	$ 18.75	1,153	300,000	57	89%	267,000	51	4,500,000
1%	Incandescent to LED 13W PAR	Incandescent 60W	15	Bulb	211.41	0.04	$7.50	1.00	$28.11	$ 16.50	801	169,440	32	89%	150,801	29	2,541,595	2,262,019	6,011	$0.04	26.68%	$7.50	1.00	$28.11	$ 16.50	710	150,000	28	89%	133,500	25	2,250,000
1%	Incandescent to LED 9.5W PAR	Incandescent 40W	15	Bulb	140.26	0.03	$4.00	1.00	$13.33	$ 7.50	1,208	169,440	32	89%	150,801	29	2,541,595	2,262,019	4,832	$0.03	30.01%	$4.00	1.00	$13.33	$ 7.50	1,069	150,000	28	89%	133,500	25	2,250,000
1%	Incandescent to LED 14W PAR	Incandescent 75W	15	Bulb	260.20	0.05	$12.50	1.00	$28.30	$ 18.75	651	169,440	32	89%	150,801	29	2,541,595	2,262,019	8,140	$0.05	44.17%	$12.50	1.00	$28.30	$ 18.75	576	150,000	28	89%	133,500	25	2,250,000
15%	LED 2X4 Recessed Light Fixture	3L 4ft. 32wT8 fixture or T12	18	Fixture	358.56	0.07	$50.00	1.00	$125.00		7,088	2,541,595	496	89%	2,262,019	442	45,748,706	40,716,348	354,417	$0.14	40.00%	$50.00	1.00	$125.00		6,275	2,250,000	439	89%	2,002,500	391	40,500,000
15%	LED 2X4 Recessed Light Fixture	4L 4ft 32wT8 fixture or T12	18	Fixture	406.08	0.08	$50.00	1.00	$150.00		6,259	2,541,595	501	89%	2,262,019	446	45,748,706	40,716,348	312,943	$0.12	33.33%	$50.00	1.00	$150.00		5,541	2,250,000	443	89%	2,002,500	395	40,500,000
15%	LED 2X2 Recessed Light Fixture	U-Tube 2L T8 fixture or T12	18	Fixture	203.04	0.04	$37.50	1.00	$75.00		12,518	2,541,595	501	89%	2,262,019	446	45,748,706	40,716,348	469,414	$0.18	50.00%	$37.50	1.00	$75.00		11,082	2,250,000	443	89%	2,002,500	395	40,500,000
15%	T8 LED Tube Relamp	32w 4ft T8 Lamp or T12	18	Lamp	95.04	0.02	$10.00	1.00	$20.00		26,742	2,541,595	535	89%	2,262,019	476	45,748,706	40,716,348	267,424	$0.11	50.00%	$10.00	1.00	$20.00		23,674	2,250,000	473	89%	2,002,500	421	40,500,000
1%	Replace Exterior less than 175W HID to LED	HID <= 175W	15	Fixture	595.62	0.11	$30.00	1.00	$209.90	$ 150.00	284	169,440	32	89%	150,801	29	2,541,595	2,262,019	8,534	$0.05	14.29%	$30.00	1.00	$209.90	$ 150.00	252	150,000	28	89%	133,500	25	2,250,000
1%	Replace Exterior 176W - 250W HID to LED	HID 176W - 250W	15	Fixture	874.11	0.17	$40.00	1.00	$269.90	$ 150.00	194	169,440	32	89%	150,801	29	2,541,595	2,262,019	7,754	$0.05	14.82%	$40.00	1.00	$269.90	$ 150.00	172	150,000	28	89%	133,500	25	2,250,000
1%	Replace Exterior 251W - 400W HID to LED	HID 251W - 400W	15	Fixture	1,512.42	0.29	$50.00	1.00	$349.90	$ 150.00	112	169,440	32	89%	150,801	29	2,541,595	2,262,019	5,602	$0.03	14.29%	$50.00	1.00	$349.90	$ 150.00	99	150,000	28	89%	133,500	25	2,250,000
5%	Replace 200 W HID to LED (Retrofit Kit)	HID 200 W	15	Lamp	378.11	0.07	$17.00	1.00	$83.00		2,241	847,198	161	89%	754,006	143	12,707,974	11,310,097	38,091	$0.04	20.48%	$17.00	1.00	$83.00		1,984	750,000	142	89%	667,500	127	11,250,000
5%	Replace 250 W HID to LED (Retrofit Kit)	HID 250 W	15	Lamp	487.88	0.09	$23.00	1.00	$94.00		1,736	847,198	161	89%	754,006	143	12,707,974	11,310,097	39,939	$0.05	24.47%	$23.00	1.00	$94.00		1,537	750,000	142	89%	667,500	127	11,250,000
5%	Replace 400 W HID to LED (Retrofit Kit)	HID 320 W	15	Lamp	1,016.41	0.19	$45.00	1.00	$136.00		834	847,198	161	89%	754,006	143	12,707,974	11,310,097	37,508	$0.04	33.09%	$45.00	1.00	$136.00		738	750,000	142	89%	667,500	127	11,250,000
5%	Replace 1000 W HID to LED (Retrofit Kit)	HID 1000 W	15	Lamp	3,089.89	0.59	$145.00	1.00	$369.00		274	847,198	161	89%	754,006	143	12,707,974	11,310,097	39,757	$0.05	39.30%	$145.00	1.00	$369.00		243	750,000	142	89%	667,500	127	11,250,000
3%	Replace Exterior 1,000W HID with LED	HID 1000W	15	Fixture	3,781.05	0.72	$175.00	1.00	$529.00	$ 1,012.50	134	508,319	96	89%	452,404	86	7,624,784	6,786,058	23,527	$0.05	33.08%	$175.00	1.00	$529.00	$ 1,012.50	119	450,000	85	89%	400,500	76	6,750,000
1%	LED - MR16 - Replacing Incandescent	Incandescent	15	Bulb	53.00	0.01	$2.50	1.00	$30.00	N/A	1,598	84,720	21	89%	75,401	18	1,270,797	1,131,010	3,996	$0.05	8.33%	$2.50	1.00	$30.00	N/A	1,415	75,000	18	89%	66,750	16	1,125,000
1%	LED Auto Traffic Signal - 8" or 12" Green	Incandescent Traffic Signal	10	Fixture	234.00	0.04	$12.50	1.00	$35.00	$ 35.00	362	84,720	14	89%	75,401	13	847,198	754,006	4,526	$0.05	35.71%	$12.50	1.00	$35.00	$ 35.00	321	75,000	13	89%	66,750	11	750,000
1%	LED Auto Traffic Signal - 8" or 12" Red	Incandescent Traffic Signal	10	Fixture	474.00	0.06	$20.00	1.00	$35.00	$ 35.00	179	84,720	10	89%	75,401	9	847,198	754,006	3,575	$0.04	57.14%	$20.00	1.00	$35.00	$ 35.00	158	75,000	9	89%	66,750	8	750,000
1%	LED Auto Traffic Signal - 8" or 12" Yellow	Incandescent Traffic Signal	10	Fixture	223.00	0.03	$12.50	1.00	$35.00	$ 35.00	380	84,720	9	89%	75,401	8	847,198	754,006	4,749	$0.06	35.71%	$12.50	1.00	$35.00	$ 35.00	336	75,000	8	89%	66,750	7	750,000

0%	LED Pedestrian Signal	Incandescent Pedestrian Signal	10	Fixture	946.00	0.05	$20.00	1.00	$35.00	$ 35.00	45	42,360	2	89%	37,700	2	423,599	377,003	896	$0.02	57.14%	$20.00	1.00	$35.00	$ 35.00	40	37,500	2	89%	33,375	2	375,000
65%	Occupancy Sensor - 500W or less connected load	No control	8	Sensor	304.92	0.01	$15.00	1.00	$42.00	$ 59.00	1492	455,000	18	89%	404,950	16	3,640,000	3,239,600	22,383	$0.05	35.71%	$15.00	1.00	$42.00	$ 59.00	1492	455,000	18	89%	404,950	16	3,640,000
30%	Occupancy Sensor - Greater then 500W connected load	No control	8	Sensor	609.85	0.02	$25.00	1.00	$66.00	$ 79.00	344	210,000	8	89%	186,900	7	1,680,000	1,495,200	8,609	$0.04	37.88%	$25.00	1.00	$66.00	$ 79.00	344	210,000	8	89%	186,900	7	1,680,000
5%	Plug-load occupancy sensors (controlling a minimum of three items)	No control	8	Sensor	169.00	0.00	$8.50	1.00	$45.00	$ 70.00	207	35,000	0	89%	31,150	0	280,000	249,200	1,760	$0.05	18.89%	$8.50	1.00	$45.00	$ 70.00	207	35,000	0	89%	31,150	0	280,000
100%	Delamping	Watt removed	15	Fixture	3.00	0.00	$0.15	1.00	$0.45	$ 4.00	333333	1,000,000	222	89%	890,000	198	15,000,000	13,350,000	50,000	$0.05	33.33%	$0.15	1.00	$0.45	$ 4.00	166,667	500,000	111	89%	445,000	99	7,500,000
5%	VFD added to 1-20 hp Process Pump	Standard Efficiency Pump/Motor Combination	15	HP	1,076.00	0.23	$50.00	50.00	$116.77	$ 424.00	139	150,000	32	89%	133,500	28	2,250,000	2,002,500	6,970	$0.05	42.82%	$50.00	50.00	$116.77	$ 424.00	116	125,000	27	89%	111,250	24	1,875,000
70%	VFD added to 1-20 hp HVAC Fans	No control	15	HP	1,560.00	0.28	$60.00	30.00	$203.00	$ 203.00	1346	2,100,000	370	89%	1,869,000	329	31,500,000	28,035,000	80,769	$0.04	29.56%	$60.00	30.00	$203.00	$ 203.00	1122	1,750,000	308	89%	1,557,500	275	26,250,000
10%	VFD added to 1-20 hp Chilled Water	No control	15	HP	4,100.00	0.16	$80.00	40.00	$203.00	$ 203.00	73	300,000	12	89%	267,000	10	4,500,000	4,005,000	5,854	$0.02	39.41%	$80.00	40.00	$203.00	$ 203.00	61	250,000	10	89%	222,500	9	3,750,000
15%	VFD added to 1-20 hp Heated Water	No control	15	HP	3,120.00	0.88	$90.00	45.00	$203.00	$ 203.00	144	450,000	127	89%	400,500	113	6,750,000	6,007,500	12,981	$0.03	44.33%	$90.00	45.00	$203.00	$ 203.00	120	375,000	106	89%	333,750	94	5,625,000
2%	ENERGY STAR Commercial Solid Door Refrigerators <15 ft³	Non Energy-Star Refrigerator	12	Unit	261.71	0.72	$15.00	1.00	$143.00	$ 143.00	26	6,800	19	89%	6,052	17	81,600	72,624	390	$0.06	10.49%	$15.00	1.00	$143.00	$ 143.00	26	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Solid Door Refrigerators 15-30 ft³	Non Energy-Star Refrigerator	12	Unit	447.49	1.23	$25.00	1.00	$164.00	$ 164.00	15	6,800	19	89%	6,052	17	81,600	72,624	380	$0.06	15.24%	$25.00	1.00	$164.00	$ 164.00	15	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Solid Door Refrigerators 30-50 ft³	Non Energy-Star Refrigerator	12	Unit	790.23	2.17	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600	72,624	344	$0.05	24.39%	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Solid Door Refrigerators >50 ft³	Non Energy-Star Refrigerator	12	Unit	957.76	2.62	$50.00	1.00	$249.00	$ 249.00	7	6,800	19	89%	6,052	17	81,600	72,624	355	$0.05	20.08%	$50.00	1.00	$249.00	$ 249.00	7	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Glass Door Refrigerators <15 ft³	Non Energy-Star Refrigerator	12	Unit	720.51	1.97	$15.00	1.00	$143.00	$ 143.00	9	6,800	19	89%	6,052	17	81,600	72,624	142	$0.02	10.49%	$15.00	1.00	$143.00	$ 143.00	9	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Glass Door Refrigerators 15-30 ft³	Non Energy-Star Refrigerator	12	Unit	675.25	1.85	$25.00	1.00	$164.00	$ 164.00	10	6,800	19	89%	6,052	17	81,600	72,624	252	$0.04	15.24%	$25.00	1.00	$164.00	$ 164.00	10	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Glass Door Refrigerators 30-50 ft³	Non Energy-Star Refrigerator	12	Unit	728.18	2.00	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600	72,624	374	$0.05	24.39%	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Glass Door Refrigerators >50 ft³	Non Energy-Star Refrigerator	12	Unit	854.10	2.34	$50.00	1.00	$249.00	$ 249.00	8	6,800	19	89%	6,052	17	81,600	72,624	398	$0.06	20.08%	$50.00	1.00	$249.00	$ 249.00	8	6,800	19	89%	6,052	17	81,600
4%	ENERGY STAR Commercial Solid Door Freezers <15 ft³	Non Energy-Star Freezer	12	Unit	485.45	1.33	$25.00	1.00	$142.00	$ 142.00	28	13,600	37	89%	12,104	33	163,200	145,248	700	$0.05	17.61%	$25.00	1.00	$142.00	$ 142.00	28	13,600	37	89%	12,104	33	163,200
4%	ENERGY STAR Commercial Solid Door Freezers 15-30 ft³	Non Energy-Star Freezer	12	Unit	868.70	2.38	$50.00	1.00	$166.00	$ 166.00	16	13,600	37	89%	12,104	33	163,200	145,248	783	$0.06	30.12%	$50.00	1.00	$166.00	$ 166.00	16	13,600	37	89%	12,104	33	163,200
3%	ENERGY STAR Commercial Solid Door Freezers 30-50 ft³	Non Energy-Star Freezer	12	Unit	1,728.28	4.74	$75.00	1.00	$166.00	$ 166.00	6	10,200	28	89%	9,078	25	122,400	108,936	443	$0.04	45.18%	$75.00	1.00	$166.00	$ 166.00	6	10,200	28	89%	9,078	25	122,400
3%	ENERGY STAR Commercial Solid Door Freezers >50 ft³	Non Energy-Star Freezer	12	Unit	2,608.66	7.15	$125.00	1.00	$407.00	$ 407.00	4	10,200	28	89%	9,078	25	122,400	108,936	489	$0.05	30.71%	$125.00	1.00	$407.00	$ 407.00	4	10,200	28	89%	9,078	25	122,400
3%	ENERGY STAR Commercial Glass Door Freezers <15 ft³	Non Energy-Star Freezer	12	Unit	1,588.12	4.35	$25.00	1.00	$142.00	$ 142.00	6	10,200	28	89%	9,078	25	122,400	108,936	161	$0.02	17.61%	$25.00	1.00	$142.00	$ 142.00	6	10,200	28	89%	9,078	25	122,400
3%	ENERGY STAR Commercial Glass Door Freezers 15-30 ft³	Non Energy-Star Freezer	12	Unit	1,998.01	5.47	$50.00	1.00	$166.00	$ 166.00	5	10,200	28	89%	9,078	25	122,400	108,936	255	$0.03	30.12%	$50.00	1.00	$166.00	$ 166.00	5	10,200	28	89%	9,078	25	122,400
2%	ENERGY STAR Commercial Glass Door Freezers 30-50 ft³	Non Energy-Star Freezer	12	Unit	3,869.00	10.60	$75.00	1.00	$166.00	$ 166.00	2	6,800	19	89%	6,052	17	81,600	72,624	132	$0.02	45.18%	$75.00	1.00	$166.00	$ 166.00	2	6,800	19	89%	6,052	17	81,600
2%	ENERGY STAR Commercial Glass Door Freezers >50 ft³	Non Energy-Star Freezer	12	Unit	5,694.00	15.60	$125.00	1.00	$407.00	$ 407.00	1	6,800	19	89%	6,052	17	81,600	72,624	149	$0.02	30.71%	$125.00	1.00	$407.00	$ 407.00	1	6,800	19	89%	6,052	17	81,600
10%	Refrigeration Case Door Retrofits - Add doors to open refrigeration cases	Low Temp Reach-in Cases w/o doors	12	Door	1,454.00	0.25	$150.00	1.00	$670.00	$ 670.00	23	34,000	6	89%	30,260	5	408,000	363,120	3,508	$0.10	22.39%	$150.00	1.00	$670.00	$ 670.00	23	34,000	6	89%	30,260	5	408,000
50%	Commercial ECM Cooler Motors	Low Efficiency Shaded Pole or Permanent Split Capacitor Motor	15	Motor	824.00	0.09	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000	2,670,000	8,495	$0.04	44.87%	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000
50%	Commercial ECM Freezer Motors	Low Efficiency Shaded Pole or Permanent Split Capacitor Motor	15	Motor	824.00	0.09	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000	2,670,000	8,495	$0.04	44.87%	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000
5%	Anti-Sweat Heater Controls - Low temp case, Walk-in, Reach-in, & Coffin	Standard heated door with no controls	12	Door	1,277.73	0.00	$25.00	1.00	$250.00	$ 250.00	13	17,000	0	89%	15,130	0	204,000	181,560	333	$0.02	10.00%	$25.00	1.00	$250.00	$ 250.00	13	17,000	0	89%	15,130	0	204,000
5%	Auto Door Closers - Reach-in Freezer	Door with manual closer	8	Door	393.62	0.00	$12.50	1.00	$51.17	$ 51.17	43	17,000	0	89%	15,130	0	136,000	121,040	540	$0.03	24.43%	$12.50	1.00	$51.17	$ 51.17	43	17,000	0	89%	15,130	0	136,000
5%	Auto Door Closers - Reach-in Cooler	Door with manual closer	8	Door	254.32	0.00	$12.50	1.00	$33.06	$ 33.06	67	17,000	0	89%	15,130	0	136,000	121,040	836	$0.05	37.81%	$12.50	1.00	$33.06	$ 33.06	67	17,000	0	89%	15,130	0	136,000
5%	Auto Door Closers - Walk-in Freezer	Door with manual closer	8	Door	2,307.00	0.31	$25.00	1.00	$156.82	$ 210.00	7	17,000	2	89%	15,130	2	136,000	121,040	184	$0.01	15.94%	$25.00	1.00	$156.82	$ 210.00	7	17,000	2	89%	15,130	2	136,000
5%	Auto Door Closers - Walk-in cooler	Door with manual closer	8	Door	943.00	0.14	$25.00	1.00	$156.82	$ 129.37	18	17,000	2	89%	15,130	2	136,000	121,040	451	$0.03	15.94%	$25.00	1.00	$156.82	$ 129.37	18	17,000	2	89%	15,130	2	136,000
5%	Evaporator Fan - Install controls on Shade Pole or PSC, fan controls	No control	16	Fan	478.00	0.06	$45.00	1.00	$291.00	$ 291.00	36	17,000	2	89%	15,130	2	272,000	242,080	1,600	$0.09	15.46%	$45.00	1.00	$291.00	$ 291.00	36	17,000	2	89%	15,130	2	272,000
5%	Motion Sensors on LED Cases	No control	8.1	Door	508.25	0.03	$2.50	1.00	$12.25	$ 8.67	33	17,000	1	89%	15,130	1	137,700	122,553	84	$0.00	20.41%	$2.50	1.00	$12.25	$ 8.67	33	17,000	1	89%	15,130	1	137,700
5%	Night Covers - vertical or horizontal night covers	No covers	5	per Case	272.50	0.00	$10.00	1.00	$42.00	$ 28.44	62	17,000	0	89%	15,130	0	85,000	75,650	624	$0.04	23.81%	$10.00	1.00	$42.00	$ 28.44	62	17,000	0	89%	15,130	0	85,000
5%	Floating Head Pressure Controls - Adds FHPC	Constant or Manual Head Pressure Control	15	Ton	1,264.00	0.00	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000	226,950	269	$0.02	25.00%	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000
5%	Floating Head Pressure Controls - Adds FSPC	Constant or Manual Head Pressure Control	15	Ton	1,264.00	0.00	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000	226,950	269	$0.02	25.00%	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000
10%	ENERGY STAR Commercial Fryer	Non Energy-Star Fryer	12	Unit	982.71	0.22	$10.00	1.00	$500.00	$ 47.00	31	30,000	7	89%	26,700	6	360,000	320,400	305	$0.01	2.00%	$10.00	1.00	$500.00	$ 47.00	41	40,000	9	89%	35,600	8	480,000

5%	ENERGY STAR Commercial Hot Holding Cabinets Full Size	Non Energy-Star Holding Cabinet	12	Unit	5,256.00	0.80	$75.00	1.00	$1,110.00	$ 500.00	3	15,000	2	89%	13,350	2	180,000	160,200	214	$0.01	6.76%	$75.00	1.00	$1,110.00	$ 500.00	4	20,000	3	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Hot Holding Cabinets Three Quarter Size	Non Energy-Star Holding Cabinet	12	Unit	2,847.00	0.44	$125.00	1.00	$1,110.00	$ 1,110.00	5	15,000	2	89%	13,350	2	180,000	160,200	659	$0.04	11.26%	$125.00	1.00	$1,110.00	$ 1,110.00	7	20,000	3	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Steam Cookers 3 Pan	Non Energy-Star Steam Cooker	12	Unit	6,629.00	1.27	$100.00	1.00	$3,500.00	$ 1,110.00	2	15,000	3	89%	13,350	3	180,000	160,200	226	$0.02	2.86%	$100.00	1.00	$3,500.00	$ 1,110.00	3	20,000	4	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Steam Cookers 4 Pan	Non Energy-Star Steam Cooker	12	Unit	8,429.00	1.62	$350.00	1.00	$3,500.00	$ 3,500.00	2	15,000	3	89%	13,350	3	180,000	160,200	623	$0.04	10.00%	$350.00	1.00	$3,500.00	$ 3,500.00	2	20,000	4	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Steam Cookers 5 Pan	Non Energy-Star Steam Cooker	12	Unit	11,466.00	2.20	$400.00	1.00	$3,500.00	$ 3,500.00	1	15,000	3	89%	13,350	3	180,000	160,200	523	$0.03	11.43%	$400.00	1.00	$3,500.00	$ 3,500.00	2	20,000	4	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Steam Cookers 6 Pan	Non Energy-Star Steam Cooker	12	Unit	13,608.00	2.60	$550.00	1.00	$3,500.00	$ 3,500.00	1	15,000	3	89%	13,350	3	180,000	160,200	606	$0.04	15.71%	$550.00	1.00	$3,500.00	$ 3,500.00	1	20,000	4	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Dishwasher - Under Counter, Low Temp	Non Energy-Star Dishwasher	12	Unit	2,540.00	0.39	$25.00	1.00	$50.00	$ 3,500.00	6	15,000	2	89%	13,350	2	180,000	160,200	148	$0.01	50.00%	$25.00	1.00	$50.00	$ 3,500.00	8	20,000	3	89%	17,800	3	240,000
5%	ENERGY STAR Commercial Dishwasher - Under Counter, High Temp	Non Energy-Star Dishwasher	10	Unit	3,171.00	0.48	$60.00	1.00	$120.00	$ 50.00	5	15,000	2	89%	13,350	2	150,000	133,500	284	$0.02	50.00%	$60.00	1.00	$120.00	$ 50.00	6	20,000	3	89%	17,800	3	200,000
10%	ENERGY STAR Commercial Dishwasher - Door Type, Low Temp	Non Energy-Star Dishwasher	10	Unit	16,153.00	2.46	$375.00	1.00	$770.00	$ 120.00	2	30,000	5	89%	26,700	4	300,000	267,000	696	$0.02	48.70%	$375.00	1.00	$770.00	$ 120.00	2	40,000	6	89%	35,600	5	400,000
10%	ENERGY STAR Commercial Dishwasher - Door Type, High Temp	Non Energy-Star Dishwasher	15	Unit	11,863.00	1.81	$375.00	1.00	$770.00	$ -	3	30,000	5	89%	26,700	4	450,000	400,500	948	$0.03	48.70%	$375.00	1.00	$770.00	$ -	3	40,000	6	89%	35,600	5	600,000
10%	ENERGY STAR Commercial Dishwasher - Single Tank Conveyor, Low Temp	Non Energy-Star Dishwasher	20	Unit	13,626.00	2.07	$1,000.00	1.00	$2,050.00	$ 770.00	2	30,000	5	89%	26,700	4	600,000	534,000	2,202	$0.07	48.78%	$1,000.00	1.00	$2,050.00	$ 770.00	3	40,000	6	89%	35,600	5	800,000
10%	ENERGY STAR Commercial Dishwasher - Single Tank Conveyor, High Temp	Non Energy-Star Dishwasher	20	Unit	9,212.00	1.40	$1,000.00	1.00	$2,050.00	$ -	3	30,000	5	89%	26,700	4	600,000	534,000	3,257	$0.11	48.78%	$1,000.00	1.00	$2,050.00	$ -	4	40,000	6	89%	35,600	5	800,000
5%	ENERGY STAR Commercial Dishwasher - Multi-Tank Conveyor, Low Temp	Non Energy-Star Dishwasher	20	Unit	18,811.00	2.86	$500.00	1.00	$970.00	$ 2,050.00	1	15,000	2	89%	13,350	2	300,000	267,000	399	$0.03	51.55%	$500.00	1.00	$970.00	$ 2,050.00	1	20,000	3	89%	17,800	3	400,000
5%	ENERGY STAR Commercial Dishwasher - Multi-Tank Conveyor, High Temp	Non Energy-Star Dishwasher	20	Unit	27,408.00	4.17	$500.00	1.00	$970.00	$ 970.00	1	15,000	2	89%	13,350	2	300,000	267,000	274	$0.02	51.55%	$500.00	1.00	$970.00	$ 970.00	1	20,000	3	89%	17,800	3	400,000
			15.79						$ 7,123,181		417,778	29,042,325	5,765		25,847,667	5,135	458,433,558	408,005,863	2,406,485	$0.08	35%			$ 5,477,993		238,503	22,877,500	4,573		20,360,975	4,072	362,552,700

Total Program Expected Achievements

	2017	2018	2019
LED	16,943,965	15,000,000	10,000,000
T8/T5	6,316,000	3,000,000	2,000,000
ECM	400,000	400,000	400,000
VFD	3,000,000	2,500,000	2,300,000
Refrig	340,000	340,000	340,000
Cooking	300,000	400,000	400,000
Occup.	700,000	700,000	700,000
delamp	1,000,000	500,000	500,000
	28,999,965	22,840,000	16,640,000

52,000,000	*kWh Goal (2016)*	
Program Savings	*Prg %*	*Program*
32,987,535	**63%**	**Custom**
16,986,090	**33%**	**Prescriptive**
2,346,372	**5%**	**SBDI**

Prescriptive Split	**%**	**kWh**
Lighting	**60%**	**10,191,654**
CFL	*1%*	*101,917*
LED	*45%*	*4,586,244*
T12 Delamping	*5%*	*509,583*
T5	*36%*	*3,668,995*
T8	*12%*	*1,222,998*
Exit Signs	*1%*	*101,917*
Lighting Controls	**10%**	**1,698,609**
Occupany Sensors	*100%*	*1,698,609*
Refrigeration	**8%**	**1,358,887**
Antisweat Heaters	*15%*	*203,833*
Auto Door Closers	*2%*	*27,178*
Case Lighting	*12%*	*163,066*
ECM	*54%*	*733,799*
Motion Sensors	*15%*	*203,833*
Freezers	*1%*	*13,589*
Refrigerators	*1%*	*13,589*
Commerical Kitchen	**5%**	**849,304**
Dishwashers	*35%*	*297,257*
Fryers	*5%*	*42,465*
Hot Holding Cabinets	*5%*	*42,465*
Steam Cookers	*55%*	*467,117*
VFD	**17%**	**2,887,635**
Process	*5%*	*144,382*
HVAC	*70%*	*2,021,345*
Chilled Water	*10%*	*288,764*
Heated Water	*15%*	*433,145*
	100%	**16,986,090**

	Stratum 1	*Stratum 2*	*Stratum 3*	*Stratum 4*	*Stratum 5*	*Totals*
Strata boundaries	< 33,000	30,000 – 104,999	105,000 – 299,999	300,000 – 799,999	>800,000	
Number of project	281	98	40	8	2	429
Total kWh savings	3,596,866	5,587,844	6,557,993	4,052,220	5,591,905	25,386,828
Average kWh Savi	12,800	57,019	163,950	506,528	2,795,953	59,177
Std. dev. of kWh s	8,897	19,425	42,755	210,200	2,187,742	231,060
Coefficient of vari	0.7	0.34	0.26	0.41	0.78	3.9
Final design samp	10	6	5	5	2	28

Score card Measures-Count of Number

T8/T5	LED Screw	LED tube	VFD	HID LED	Refrig LED	ECM
11,906	30,377	15,644	1,169	3,856	1,607	419
16%	40%	20%	2%	5%	2%	1%

LED

67%

Ex Ante kWh Savings	*Ex Post Gross kWh Savings*	*Free Ridership*	*Spillover*	*Ex Post Net kWh Savings*	*Net to Gross Ratio*
25,386,828	23,189,931	2,474,230	0	20,715,700	89%

Ex Ante Gross kWh Savings	*Gross Audited kWh Savings*	*Gross Verified kWh Savings*	*Ex Post Gross kWh Savings*	*Gross Realization Rate*
25,386,828	25,386,828	25,071,645	23,189,931	91%

Measure Category	*Total kWh Savings per Measure Category*	*Total Incentive per Measure Category*	*Percent of Savings*
Lighting	21,993,436	$1,230,628	87%
VFD	2,547,768	$46,690	10%
Refrigeration	791,998	$26,488	3%
Commercial Kitch	53,626	$4,670	<1%
Total	25,386,828	$1,326,593	100%

				2019																
Lifetime Net Annual Energy Savings (kWh)	Total Incentive ($)	Incentive $/kWh	% Incr Cost	Proposed Incentive	Incentive Basis	IMC	OLD	# Units	Total Gross Annual Energy Savings (kWh)	Total Gross Annual Demand Savings (kW)	Net to Gross	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Annual Energy Savings (kWh)	Lifetime Net Annual Energy Savings (kWh)	Total Incentive ($)	Incentive $/kWh	% Incr Cost	Remarks
2,002,500	8,021	$0.05	9.82%	$10.00	1.00	$101.79	$ 107.00	535	100,000	19	89%	89,000	17	1,500,000	1,335,000	5,347	$0.05	9.82%	Lbr labor @ $50/hr
2,002,500	7,850	$0.05	16.60%	$40.00	1.00	$240.98	$ 124.00	131	100,000	19	89%	89,000	17	1,500,000	1,335,000	5,233	$0.05	16.60%	Lbr labor @ $50/hr
4,005,000	24,326	$0.08	50.00%	$30.00	1.00	$60.00	$ 150.00	541	200,000	38	89%	178,000	34	3,000,000	2,670,000	16,217	$0.08	50.00%	Incentive value for this measure is the same for
4,005,000	24,273	$0.08	50.00%	$37.50	1.00	$75.00	$ 150.00	432	200,000	38	89%	178,000	34	3,000,000	2,670,000	16,182	$0.08	50.00%	Incentive value for this measure is the same for
4,005,000	16,471	$0.05	50.00%	$50.00	1.00	$100.00	$ 150.00	220	200,000	38	89%	178,000	34	3,000,000	2,670,000	10,980	$0.05	50.00%	Incentive value for this measure is the same for
8,010,000	31,534	$0.05	50.00%	$75.00	1.00	$150.00	$ 150.00	280	400,000	76	89%	356,000	68	6,000,000	5,340,000	21,022	$0.05	50.00%	Incentive value for this measure is the same for
8,010,000	46,118	$0.08	21.83%	$200.00	1.00	$916.02	$ 300.00	154	400,000	76	89%	356,000	68	6,000,000	5,340,000	30,745	$0.08	21.83%	Lbr labor @ $50/hr
8,010,000	55,480	$0.09	13.93%	$200.00	1.00	$1,435.26	$ 300.00	185	400,000	76	89%	356,000	68	6,000,000	5,340,000	36,987	$0.09	13.93%	Lbr labor @ $50/hr
0	0	$0.02	14.61%	$2.00	1.00	$13.69	$ 3.00	0	0	0	89%	0	0	0	0	0	$0.02	14.61%	10 minutes Labor @ $50/hr
0	0	$0.01	32.22%	$5.00	1.00	$15.52	$ 3.00	0	0	0	89%	0	0	0	0	0	$0.01	32.22%	10 minutes Labor @ $50/hr
0	0	$0.03	21.86%	$12.50	1.00	$57.19	$ 35.00	0	0	0	89%	0	0	0	0	0	$0.03	21.86%	Lbr Labor @ $50/hr
2,136,000	13,554	$0.09	25.00%	$7.50	1.00	$30.00	$ 30.00	1,205	100,000	12	89%	89,000	11	1,600,000	1,424,000	9,036	$0.09	25.00%	Adjusting exit sign EUL and
4,005,000	14,055	$0.05	61.24%	$10.00	1.00	$16.33	$ 15.00	937	200,000	38	89%	178,000	34	3,000,000	2,670,000	9,370	$0.05	61.24%	Labor: 10 minutes @ $50/hr
4,005,000	14,328	$0.05	51.30%	$20.00	1.00	$38.99	$ 18.75	478	200,000	38	89%	178,000	34	3,000,000	2,670,000	9,552	$0.05	51.30%	Labor: 20 minutes @ $50/hr
4,005,000	16,277	$0.05	56.31%	$7.50	1.00	$13.32	$ 7.50	1,447	200,000	38	89%	178,000	34	3,000,000	2,670,000	10,851	$0.05	56.31%	Labor: 20 minutes @ $50/hr
4,005,000	14,412	$0.05	44.17%	$12.50	1.00	$28.30	$ 18.75	769	200,000	38	89%	178,000	34	3,000,000	2,670,000	9,608	$0.05	44.17%	Labor: 20 minutes @ $50/hr
2,002,500	5,321	$0.04	26.68%	$7.50	1.00	$28.11	$ 16.50	473	100,000	19	89%	89,000	17	1,500,000	1,335,000	3,548	$0.04	26.68%	Labor: 20 minutes @ $50/hr
2,002,500	4,278	$0.03	30.01%	$4.00	1.00	$13.33	$ 7.50	713	100,000	19	89%	89,000	17	1,500,000	1,335,000	2,852	$0.03	30.01%	Labor: 20 minutes @ $50/hr
2,002,500	7,206	$0.05	44.17%	$12.50	1.00	$28.30	$ 18.75	384	100,000	19	89%	89,000	17	1,500,000	1,335,000	4,804	$0.05	44.17%	Labor: 20 minutes @ $50/hr
36,045,000	313,755	$0.14	40.00%	$50.00	1.00	$125.00		4,183	1,500,000	293	89%	1,335,000	261	27,000,000	24,030,000	209,170	$0.14	40.00%	Labor: Lamp Cost: LED Fixture wattage =50w; T8 Fixture wattage =
36,045,000	277,039	$0.12	33.33%	$50.00	1.00	$150.00		3,694	1,500,000	296	89%	1,335,000	263	27,000,000	24,030,000	184,693	$0.12	33.33%	Labor: Lamp Cost: LED Fixture wattage =70w; T8 Fixture wattage =
36,045,000	415,559	$0.18	50.00%	$37.50	1.00	$75.00		7,388	1,500,000	296	89%	1,335,000	263	27,000,000	24,030,000	277,039	$0.18	50.00%	Labor: Lamp Cost: LED Fixture wattage =35w; T8 Fixture wattage =
36,045,000	236,742	$0.11	50.00%	$10.00	1.00	$20.00		15,783	1,500,000	316	89%	1,335,000	281	27,000,000	24,030,000	157,828	$0.11	50.00%	Labor: Lamp Cost: LED Lamp - 18w; T8 Lamp = 32w; 4320 hours;
2,002,500	7,555	$0.05	14.29%	$30.00	1.00	$209.90	$ 150.00	168	100,000	19	89%	89,000	17	1,500,000	1,335,000	5,037	$0.05	14.29%	Labor: 1 Hr @$50/hr
2,002,500	6,864	$0.05	14.82%	$40.00	1.00	$269.90	$ 150.00	114	100,000	19	89%	89,000	17	1,500,000	1,335,000	4,576	$0.05	14.82%	Lbr Labor @ $50/hr
2,002,500	4,959	$0.03	14.29%	$50.00	1.00	$349.90	$ 150.00	66	100,000	19	89%	89,000	17	1,500,000	1,335,000	3,306	$0.03	14.29%	Labor: 2 Hr @$50/hr
10,012,500	33,721	$0.04	20.48%	$17.00	1.00	$83.00		1,322	500,000	95	89%	445,000	84	7,500,000	6,675,000	22,481	$0.04	20.48%	Labor: Lamp Cost:
10,012,500	35,357	$0.05	24.47%	$23.00	1.00	$94.00		1,025	500,000	95	89%	445,000	84	7,500,000	6,675,000	23,571	$0.05	24.47%	
10,012,500	33,205	$0.04	33.09%	$45.00	1.00	$136.00		492	500,000	95	89%	445,000	84	7,500,000	6,675,000	22,137	$0.04	33.09%	
10,012,500	35,195	$0.05	39.30%	$145.00	1.00	$369.00		162	500,000	95	89%	445,000	84	7,500,000	6,675,000	23,464	$0.05	39.30%	
6,007,500	20,828	$0.05	33.08%	$175.00	1.00	$529.00	$ 1,012.50	79	300,000	57	89%	267,000	51	4,500,000	4,005,000	13,885	$0.05	33.08%	Labor: 1 Hr @$50/hr
1,001,250	3,538	$0.05	8.33%	$2.50	1.00	$30.00	N/A	943	50,000	12	89%	44,500	11	750,000	667,500	2,358	$0.05	8.33%	Lamp Cost: Added by LM; 2014 MEMD, Line 142
667,500	4,006	$0.05	35.71%	$12.50	1.00	$35.00	$ 35.00	214	50,000	9	89%	44,500	8	500,000	445,000	2,671	$0.05	35.71%	
667,500	3,165	$0.04	57.14%	$20.00	1.00	$35.00	$ 35.00	105	50,000	6	89%	44,500	5	500,000	445,000	2,110	$0.04	57.14%	
667,500	4,204	$0.06	35.71%	$12.50	1.00	$35.00	$ 35.00	224	50,000	6	89%	44,500	5	500,000	445,000	2,803	$0.06	35.71%	

333,750	793	$0.02	57.14%	$20.00	1.00	$35.00	$ 35.00	26	25,000	1	89%	22,250	1	250,000	222,500	529	$0.02	57.14%	
3,239,600	22,383	$0.05	35.71%	$15.00	1.00	$42.00	$ 59.00	1492	455,000	18	89%	404,950	16	3,640,000	3,239,600	22,383	$0.05	35.71%	Assumed 250W load
1,495,200	8,609	$0.04	37.88%	$25.00	1.00	$66.00	$ 79.00	344	210,000	8	89%	186,900	7	1,680,000	1,495,200	8,609	$0.04	37.88%	Changed assumption to 500W load
249,200	1,760	$0.05	18.89%	$8.50	1.00	$45.00	$ 70.00	207	35,000	0	89%	31,150	0	280,000	249,200	1,760	$0.05	18.89%	Measure is in Indiana TRM
6,675,000	25,000	$0.05	33.33%	$0.15	1.00	$0.45	$ 4.00	166667	500,000	111	89%	445,000	99	7,500,000	6,675,000	25,000	$0.05	33.33%	Fixture savings = 39w per lamp
1,668,750	5,809	$0.05	42.82%	$50.00	50.00	$116.77	$ 424.00	107	115,000	24	89%	102,350	22	1,725,000	1,535,250	5,344	$0.05	42.82%	Page 282 of IN TRM. For 1 -20 hp pumps for C&I
23,362,500	67,308	$0.04	29.56%	$60.00	30.00	$203.00	$ 203.00	1032	1,610,000	284	89%	1,432,900	253	24,150,000	21,493,500	61,923	$0.04	29.56%	Page 274 of IN TRM -- VFDs on HVAC -- 5 - 20 hp motors
3,337,500	4,878	$0.02	39.41%	$80.00	40.00	$203.00	$ 203.00	56	230,000	9	89%	204,700	8	3,450,000	3,070,500	4,488	$0.02	39.41%	Page 274 of IN TRM -- VFDs on HVAC -- 5 - 20 hp motors
5,006,250	10,817	$0.03	44.33%	$90.00	45.00	$203.00	$ 203.00	111	345,000	98	89%	307,050	87	5,175,000	4,605,750	9,952	$0.03	44.33%	Not in IN TRM
72,624	390	$0.06	10.49%	$15.00	1.00	$143.00	$ 143.00	26	6,800	19	89%	6,052	17	81,600	72,624	390	$0.06	10.49%	
72,624	380	$0.06	15.24%	$25.00	1.00	$164.00	$ 164.00	15	6,800	19	89%	6,052	17	81,600	72,624	380	$0.06	15.24%	
72,624	344	$0.05	24.39%	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600	72,624	344	$0.05	24.39%	
72,624	355	$0.05	20.08%	$50.00	1.00	$249.00	$ 249.00	7	6,800	19	89%	6,052	17	81,600	72,624	355	$0.05	20.08%	
72,624	142	$0.02	10.49%	$15.00	1.00	$143.00	$ 143.00	9	6,800	19	89%	6,052	17	81,600	72,624	142	$0.02	10.49%	
72,624	252	$0.04	15.24%	$25.00	1.00	$164.00	$ 164.00	10	6,800	19	89%	6,052	17	81,600	72,624	252	$0.04	15.24%	
72,624	374	$0.05	24.39%	$40.00	1.00	$164.00	$ 164.00	9	6,800	19	89%	6,052	17	81,600	72,624	374	$0.05	24.39%	
72,624	398	$0.06	20.08%	$50.00	1.00	$249.00	$ 249.00	8	6,800	19	89%	6,052	17	81,600	72,624	398	$0.06	20.08%	
145,248	700	$0.05	17.61%	$25.00	1.00	$142.00	$ 142.00	28	13,600	37	89%	12,104	33	163,200	145,248	700	$0.05	17.61%	
145,248	783	$0.06	30.12%	$50.00	1.00	$166.00	$ 166.00	16	13,600	37	89%	12,104	33	163,200	145,248	783	$0.06	30.12%	
108,936	443	$0.04	45.18%	$75.00	1.00	$166.00	$ 166.00	6	10,200	28	89%	9,078	25	122,400	108,936	443	$0.04	45.18%	
108,936	489	$0.05	30.71%	$125.00	1.00	$407.00	$ 407.00	4	10,200	28	89%	9,078	25	122,400	108,936	489	$0.05	30.71%	
108,936	161	$0.02	17.61%	$25.00	1.00	$142.00	$ 142.00	6	10,200	28	89%	9,078	25	122,400	108,936	161	$0.02	17.61%	
108,936	255	$0.03	30.12%	$50.00	1.00	$166.00	$ 166.00	5	10,200	28	89%	9,078	25	122,400	108,936	255	$0.03	30.12%	
72,624	132	$0.02	45.18%	$75.00	1.00	$166.00	$ 166.00	2	6,800	19	89%	6,052	17	81,600	72,624	132	$0.02	45.18%	
72,624	149	$0.02	30.71%	$125.00	1.00	$407.00	$ 407.00	1	6,800	19	89%	6,052	17	81,600	72,624	149	$0.02	30.71%	
363,120	3,508	$0.10	22.39%	$150.00	1.00	$670.00	$ 670.00	23	34,000	6	89%	30,260	5	408,000	363,120	3,508	$0.10	22.39%	Measure is from 2014 Michigan Energy Measures Database. Source:
2,670,000	8,495	$0.04	44.87%	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000	2,670,000	8,495	$0.04	44.87%	The only ELW measure in the IN TRM is for res HVAC. Used
2,670,000	8,495	$0.04	44.87%	$35.00	1.00	$78.00	$ 125.00	243	200,000	21	89%	178,000	18	3,000,000	2,670,000	8,495	$0.04	44.87%	The only ELW measure in the IN TRM is for res HVAC. Used
181,560	333	$0.02	10.00%	$25.00	1.00	$250.00	$ 250.00	13	17,000	0	89%	15,130	0	204,000	181,560	333	$0.02	10.00%	Measure is from Indiana TRM but cost is $200 - $300 per
121,040	540	$0.03	24.43%	$12.50	1.00	$51.17	$ 51.17	43	17,000	0	89%	15,130	0	136,000	121,040	540	$0.03	24.43%	Indiana Michigan prescriptive measure from Audit program is
121,040	836	$0.05	37.81%	$12.50	1.00	$33.06	$ 33.06	67	17,000	0	89%	15,130	0	136,000	121,040	836	$0.05	37.81%	Indiana Michigan prescriptive measure from Audit program is
121,040	184	$0.01	15.94%	$25.00	1.00	$156.82	$ 210.00	7	17,000	2	89%	15,130	2	136,000	121,040	184	$0.01	15.94%	Updated for 2014 Illinois TRM (p. 376). Not in IN TRM.
121,040	451	$0.03	15.94%	$25.00	1.00	$156.82	$ 129.37	18	17,000	2	89%	15,130	2	136,000	121,040	451	$0.03	15.94%	Updated for 2014 Illinois TRM (p. 376). Not in IN TRM.
242,080	1,600	$0.09	15.46%	$45.00	1.00	$291.00	$ 291.00	36	17,000	2	89%	15,130	2	272,000	242,080	1,600	$0.09	15.46%	Source: Illinois TRM
122,553	84	$0.00	20.41%	$2.50	1.00	$12.25	$ 8.67	33	17,000	1	89%	15,130	1	137,700	122,553	84	$0.00	20.41%	From Indiana TRM. Inc Cost is $130 per 25ft of case or $26 per 5
75,650	624	$0.04	23.81%	$10.00	1.00	$42.00	$ 28.44	62	17,000	0	89%	15,130	0	85,000	75,650	624	$0.04	23.81%	From IN TRM.
226,950	269	$0.02	25.00%	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000	226,950	269	$0.02	25.00%	From 2014 MEMD, Line 378. MEMD does not distinguish
226,950	269	$0.02	25.00%	$20.00	1.00	$80.00	$ 47.00	13	17,000	0	89%	15,130	0	255,000	226,950	269	$0.02	25.00%	From 2014 MEMD, Line 378. MEMD does not distinguish
427,200	407	$0.01	2.00%	$10.00	1.00	$500.00	$ 47.00	41	40,000	9	89%	35,600	8	480,000	427,200	407	$0.01	2.00%	From IN TRM. Page 323

213,600	285	$0.01	6.76%	$75.00	1.00	$1,110.00	$ 500.00	4	20,000	3	89%	17,800	3	240,000	213,600	285	$0.01	6.76%		From IN TRM. Page 316
213,600	878	$0.04	11.26%	$125.00	1.00	$1,110.00	$ 1,110.00	7	20,000	3	89%	17,800	3	240,000	213,600	878	$0.04	11.26%		From IN TRM. Page 316
213,600	302	$0.02	2.86%	$100.00	1.00	$3,500.00	$ 1,110.00	3	20,000	4	89%	17,800	3	240,000	213,600	302	$0.02	2.86%		From IN TRM. Page 319
213,600	830	$0.04	10.00%	$350.00	1.00	$3,500.00	$ 3,500.00	2	20,000	4	89%	17,800	3	240,000	213,600	830	$0.04	10.00%		From IN TRM. Page 319
213,600	698	$0.03	11.43%	$400.00	1.00	$3,500.00	$ 3,500.00	2	20,000	4	89%	17,800	3	240,000	213,600	698	$0.03	11.43%		From IN TRM. Page 319
213,600	808	$0.04	15.71%	$550.00	1.00	$3,500.00	$ 3,500.00	1	20,000	4	89%	17,800	3	240,000	213,600	808	$0.04	15.71%		From IN TRM. Page 319
213,600	197	$0.01	50.00%	$25.00	1.00	$50.00	$ 3,500.00	8	20,000	3	89%	17,800	3	240,000	213,600	197	$0.01	50.00%		
178,000	378	$0.02	50.00%	$60.00	1.00	$120.00	$ 50.00	6	20,000	3	89%	17,800	3	200,000	178,000	378	$0.02	50.00%		From 2014 MEMD. Gas WH w/ Electric
356,000	929	$0.02	48.70%	$375.00	1.00	$770.00	$ 120.00	2	40,000	6	89%	35,600	5	400,000	356,000	929	$0.02	48.70%		From 2014 MEMD. Gas WH w/ Electric
534,000	1,264	$0.03	48.70%	$375.00	1.00	$770.00	$ -	3	40,000	6	89%	35,600	5	600,000	534,000	1,264	$0.03	48.70%		From 2014 MEMD. Gas WH w/ Electric
712,000	2,936	$0.07	48.78%	$1,000.00	1.00	$2,050.00	$ 770.00	3	40,000	6	89%	35,600	5	800,000	712,000	2,936	$0.07	48.78%		From 2014 MEMD. Gas WH w/ Electric
712,000	4,342	$0.11	48.78%	$1,000.00	1.00	$2,050.00	$ -	4	40,000	6	89%	35,600	5	800,000	712,000	4,342	$0.11	48.78%		From 2014 MEMD. Gas WH w/ Electric
356,000	532	$0.03	51.55%	$500.00	1.00	$970.00	$ 2,050.00	1	20,000	3	89%	17,800	3	400,000	356,000	532	$0.03	51.55%		From 2014 MEMD. Gas WH w/ Electric
356,000	365	$0.02	51.55%	$500.00	1.00	$970.00	$ 970.00	1	20,000	3	89%	17,800	3	400,000	356,000	365	$0.02	51.55%		From 2014 MEMD. Gas WH w/ Electric
322,671,903	1,933,134	$0.08	36%			$ 3,843,404		215,954	16,665,000	3,373		14,831,850	3,008	260,752,700	232,069,903	1,346,033	$0.08	35%		

Work Custom Rebates

2017

Program Component	Measure	Measure Description	Unit Name	EUL	Incentive Per kWh	Incremental Cost	kWh Svgs Per Unit	kW Svgs Per Unit	kWh Svgs Per Project	kW Svgs Per Project	Net to Gross	No. of Projects	Participating Units	Annual Total Gross Energy Savings (kWh)	Annual Total Gross Demand Savings (kW)	Total Incentives Paid ($)	Pct of Program Energy Savings	Incentive Per Project/Unit ($)	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)	EUL	Incentive Per kWh	Incremental Cost	kWh Svgs Per Unit
Lighting - Custom	LED / Induction		Project	15	0.085	$1,759,500			90,000	17.78	93%	115		10,350,000	2,044.4	$ 879,750.00	26.9%	$7,650	9,625,500	1,901	155,250,000	144,382,500	15	0.080	$1,440,000	
Lighting - Custom	T5 / T8		Project	15	0.061	$439,200			90,000	13.33	93%	40		3,600,000	533.3	$ 219,600.00	9.4%	$5,490	3,348,000	496	54,000,000	50,220,000	15	0.061	$43,920	
Lighting - Custom	CFL		Project	15	0.061	$24,400			20,000	4.44	93%	10		200,000	44.4	$ 12,200.00	0.5%	$1,220	186,000	41	3,000,000	2,790,000	15	0.061	$9,760	
Lighting - Custom	All Other		Project	12	0.061	$457,500			50,000	4.44	93%	75		3,750,000	333.3	$ 228,750.00	9.8%	$3,050	3,487,500	310	45,000,000	41,850,000	12	0.061	$298,900	
HVAC - Custom			Project	15	0.052	$218,400			60,000	11.11	93%	35		2,100,000	388.9	$ 109,200.00	5.5%	$3,120	1,953,000	362	31,500,000	29,295,000	15	0.052	$218,400	
Building Controls - Custom			Project	8	0.052	$28,080			90,000	16.67	93%	3		270,000	50.0	$ 14,040.00	0.7%	$4,680	251,100	47	2,160,000	2,008,800	8	0.052	$28,080	
Chiller - Custom			Project	12	0.052	$83,200			100,000	18.52	93%	8		800,000	148.1	$ 41,600.00	2.1%	$5,200	744,000	138	9,600,000	8,928,000	12	0.052	$83,200	
Refrigeration - Custom			Project	12	0.052	$49,920			80,000	14.81	93%	6		480,000	88.9	$ 24,960.00	1.2%	$4,160	446,400	83	5,760,000	5,356,800	12	0.052	$49,920	
Compressed Air - Custom			Project	8	0.052	$384,800			100,000	18.52	93%	37		3,700,000	685.2	$ 192,400.00	9.6%	$5,200	3,441,000	637	29,600,000	27,528,000	8	0.052	$208,000	
VFDs - Custom			Project	8	0.052	$156,000			150,000	27.78	93%	10		1,500,000	277.8	$ 78,000.00	3.9%	$7,800	1,395,000	258	12,000,000	11,160,000	8	0.052	$156,000	
Miscellaneous - Custom			Project	10	0.052	$20,800			200,000	37.04	93%	1		200,000	37.0	$ 10,400.00	0.5%	$10,400	186,000	34	2,000,000	1,860,000	10	0.052	$20,800	
New Construction			Project	12	0.052	$0			100,000	18.52	93%	0		0	0.0	$ -	0.0%	$0	0	0	0	0	12	0.052	$0	
Industrial Process			Project	8	0.052	$390,000			250,000	46.30	93%	15		3,750,000	694.4	$ 195,000.00	9.8%	$13,000	3,487,500	646	30,000,000	27,900,000	8	0.052	$260,000	
RCxL	Bldg Optimization	Rescheduling of Air Handlers	motor HP	3	$0.06	$57,242	908.59	0.164	125,000	23.15	93%		700.00	636,011	115.0	$ 38,161.00	1.7%	$55	591,490	107	1,908,034	1,774,471	3	$0.06	$57,242	908.59
RCxL	Bldg Optimization	Improvements in outside air use / economizers	1000 sq.ft	3	$0.06	$2,430	141.41	0.026	20,000	3.70	93%		190.94	27,000	4.9	$ 1,620.00	0.1%	$8	25,110	5	81,000	75,330	3	$0.06	$2,430	141.41
RCxL	Bldg Optimization	Duct static pressure and temperature setback	motor HP	3	$0.06	$2,430	149.53	0.027	20,000	3.70	93%		180.57	27,000	4.9	$ 1,620.00	0.1%	$9	25,110	5	81,000	75,330	3	$0.06	$2,430	149.53
RCxL	Bldg Optimization	Chiller reset / setback	ton	3	$0.06	$145,800	174.62	0.032	100,000	18.52	93%		10,000.00	1,746,187	315.8	$ 97,200.00	4.5%	$10	1,623,954	294	5,238,561	4,871,862	3	$0.06	$145,800	174.62
RCxL	Bldg Optimization	Lighting controls optimization	per kW	3	$0.06	$4,860	666.79	0.121	50,000	9.26	93%		80.98	54,000	9.8	$ 3,240.00	0.1%	$40	50,220	9	162,000	150,660	3	$0.06	$4,860	666.79
RCxL	Bldg Optimization	Adjust zone temperature deadband	sq ft	3	$0.06	$2,430	5.63	0.001	350,000	64.81	93%		2,130.12	12,000	2.2	$ 1,620.00	0.0%	$1	11,160	2	36,000	33,480	3	$0.06	$2,430	5.63
RCxL	Bldg Optimization	Add supply air temperature setpoint strategy	sq ft	3	$0.06	$2,430	0.15	0.000	8,000	1.48	93%		81,956.74	12,000	2.2	$ 1,620.00	0.0%	$0	11,160	2	36,000	33,480	3	$0.06	$2,430	0.15
RCxL	Bldg Optimization	Test/Repair fan or pump VFD	motor HP	3	$0.06	$230,850	997.23	0.180	110,000	20.37	93%		2,000.00	1,994,460	360.7	$ 153,900.00	5.2%	$77	1,854,848	335	5,983,381	5,564,544	3	$0.06	$230,850	997.23
RCxL	Comp Air Optimization	Leak Repair	system	5	$0.06	$478,224	63,316.20	22.895	150,000	27.78	93%		35.00	2,216,067	801.3	$ 318,816.00	5.8%	$9,109	2,060,942	745	11,080,335	10,304,712	5	$0.06	$478,224	63,316.20
RCxL	Comp Air Optimization	Elimination of inappropriate uses (e.g. cabinet cooling	system	5	$0.06	$2,916	42,210.80	15.299	15,000	2.78	93%		0.90	37,990	13.8	$ 1,944.00	0.1%	$2,160	35,330	13	189,949	176,652	5	$0.06	$2,916	42,210.80
RCxL	Comp Air Optimization	Install No-Loss Drains replacing timer drains	system	5	$0.06	$2,916	21,105.40	7.595	50,000	9.26	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745	5	$0.06	$2,916	21,105.40
RCxL	Comp Air Optimization	Engineered nozzles replacing open blowing	system	5	$0.06	$2,916	42,210.80	15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466	5	$0.06	$2,916	42,210.80
RCxL	Comp Air Optimization	Regulators and Solenoid control	system	5	$0.06	$2,916	42,210.80	15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466	5	$0.06	$2,916	42,210.80
RCxL	Comp Air Optimization	Operation Pressure reduction	system	5	$0.06	$2,916	21,105.40	7.595	10,000	1.85	93%		2.00	42,211	15.2	$ 1,944.00	0.1%	$972	39,256	14	211,054	196,280	5	$0.06	$2,916	21,105.40
RCxL	Comp Air Optimization	Flow controller repair / reset	system	5	$0.06	$72,900	21,105.40	7.595	11,000	2.04	93%		20.00	422,108	151.9	$ 48,600.00	1.1%	$2,430	392,560	141	2,110,540	1,962,802	5	$0.06	$72,900	21,105.40
RCxL	Comp Air Optimization	Piping modifications	system	5	$0.06	$2,916	21,105.40	7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745	5	$0.06	$2,916	21,105.40
RCxL	Comp Air Optimization	Mist Eliminator to reduce pressure drop	system	5	$0.06	$2,916	21,105.40	7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745	5	$0.06	$2,916	21,105.40
RCxL	Comp Air Optimization	Set/Reset Economizer mode	system	5	$0.06	$2,916	42,210.80	15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466	5	$0.06	$2,916	42,210.80
RCxL	Comp Air Optimization	Install / Reset Timers	system	5	$0.06	$2,916	42,210.80	15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466	5	$0.06	$2,916	42,210.80
RCxL	Comp Air Optimization	Repair / Reset Sequencer	system	5	$0.06	$2,916	84,421.60	30.490	3,240	0.60	93%		0.38	32,400	11.7	$ 1,944.00	0.1%	$5,065	30,132	11	162,000	150,660	5	$0.06	$2,916	84,421.60
RCxL	Comp Air Optimization	Conversion of blow-off processes to low pressure air	system	5	$0.06	$2,916	105,527.00	38.194	5,276	0.60	93%		0.50	52,764	19.1	$ 1,944.00	0.1%	$3,888	49,070	18	263,818	245,350	5	$0.06	$2,916	105,527.00
RCxL	Refrig Optimization	Fixed head pressure controls optimization	comp HP	3	$0.06	$2,529	234.27	0.000	3,514	0.52	93%		150.00	35,140	0.0	$ 1,685.97	0.1%	$11	32,681	0	105,421	98,042	3	$0.06	$2,529	234.27
RCxL	Refrig Optimization	Evaporator Controller (like K2therm device)	linear foot	3	$0.06	$5,413	316.58	0.000	5,540	1.11	93%		175.00	55,402	0.0	$ 3,608.66	0.1%	$21	51,524	0	166,205	154,571	3	$0.06	$5,413	316.58
RCxL	Refrig Optimization	Defrost Cycle controls	per door	3	$0.06	$1,386	896.98	0.000	2,242	0.29	93%		25.00	22,424	0.0	$ 923.82	0.1%	$37	20,855	0	67,273	62,564	3	$0.06	$1,386	896.98
RCxL	Refrig Optimization	Anti-sweat heater controls	per foot	3	$0.06	$1,472	360.90	0.000	2,165	0.30	93%		60.00	21,654	0.0	$ 981.56	0.1%	$16	20,138	0	64,962	60,415	3	$0.06	$1,472	360.90
		Custom Total		12.37		**$4,011,800**			86,479					30,700,000	7,252	**$2,005,900**	**100.0%**		28,551,000	4,953	379,870,000	353,279,100	12.42		**$2,816,980**	
		RCxL Total		3.80		**$1,042,472**			27,913					7,718,023		**$694,981**			7,177,759	1,793	29,303,553	27,252,304	3.80		**$1,042,472**	
		Work Custom Rebates Program Total		10.65				WA Project	74,713					38,418,023		**$2,700,881**			35,728,759	6,746	409,173,553	380,531,404	10.16		$3,859,452	
		Custom Incentive $ Per kWh														**$0.065**										
		RCxL Incentive $ Per kWh														**$0.090**										
		Total Program Incentive $ Per kWh														**$0.070**										
						$5,054,272																				
																53%										

2015 Custom Program

	Stratum 1	*Stratum 2*	*Stratum 3*	*Stratum 4*	*Stratum 5*	*Totals*
Strata boundaries (kWh)	< 80,000	80,000 – 299,999	300,000 – 799,999	800,000 – 2,499,999	>2,500,000	
Number of projects	128	46	20	7	1	202
Total kWh savings	3,511,783	7,030,516	8,998,404	8,470,449	9,061,537	37,072,689
Average kWh Savings	27,436	152,837	449,920	1,210,064	9,061,537	183,528
Std. dev. of kWh savings	20,504	59,602	125,803	553,588	N/A	680,684
Coefficient of variation	0.75	0.39	0.28	0.46	N/A	3.71
Final design sample	12	5	4	4	1	26

Ex Ante kWh Savings	*Ex Post Gross kWh Savings*	*Free Ridership*	*Spillover*	*Ex Post Net kWh Savings*	*Net to Gross Ratio*
37,072,689	38,521,581	2,809,935	0	35,711,646	93%

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2018

kW Svgs Per Unit	kWh Svgs Per Project	kW Svgs Per Project	Net to Gross	No. of Projects	Participating Units	Annual Total Gross Energy Savings (kWh)	Annual Total Gross Demand Savings (kW)	Total Incentives Paid ($)	Pct of Program Energy Savings	Incentive Per Project/Unit ($)	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)
	90,000	17.78	93%	100		9,000,000	1,777.8	$ 720,000.00	23.4%	$7,200	8,370,000	1,653	135,000,000	125,550,000
	90,000	13.33	93%	4		360,000	53.3	$ 21,960.00	0.9%	$5,490	334,800	50	5,400,000	5,022,000
	20,000	4.44	93%	4		80,000	17.8	$ 4,880.00	0.2%	$1,220	74,400	17	1,200,000	1,116,000
	50,000	4.44	93%	49		2,450,000	217.8	$ 149,450.00	6.4%	$3,050	2,278,500	203	29,400,000	27,342,000
	60,000	11.11	93%	35		2,100,000	388.9	$ 109,200.00	5.5%	$3,120	1,953,000	362	31,500,000	29,295,000
	90,000	16.67	93%	3		270,000	50.0	$ 14,040.00	0.7%	$4,680	251,100	47	2,160,000	2,008,800
	100,000	18.52	93%	8		800,000	148.1	$ 41,600.00	2.1%	$5,200	744,000	138	9,600,000	8,928,000
	80,000	14.81	93%	6		480,000	88.9	$ 24,960.00	1.2%	$4,160	446,400	83	5,760,000	5,356,800
	100,000	18.52	93%	20		2,000,000	370.4	$ 104,000.00	5.2%	$5,200	1,860,000	344	16,000,000	14,880,000
	150,000	27.78	93%	10		1,500,000	277.8	$ 78,000.00	3.9%	$7,800	1,395,000	258	12,000,000	11,160,000
	200,000	37.04	93%	1		200,000	37.0	$ 10,400.00	0.5%	$10,400	186,000	34	2,000,000	1,860,000
	100,000	18.52	93%	0		0	0.0	$ -	0.0%	$0	0	0	0	0
	250,000	46.30	93%	10		2,500,000	463.0	$ 130,000.00	6.5%	$13,000	2,325,000	431	20,000,000	18,600,000
0.164	125,000	23.15	93%		700.00	636,011	115.0	$ 38,161.00	1.7%	$55	591,490	107	1,908,034	1,774,471
0.026	20,000	3.70	93%		190.94	27,000	4.9	$ 1,620.00	0.1%	$8	25,110	5	81,000	75,330
0.027	20,000	3.70	93%		180.57	27,000	4.9	$ 1,620.00	0.1%	$9	25,110	5	81,000	75,330
0.032	100,000	18.52	93%		10,000.00	1,746,187	315.8	$ 97,200.00	4.5%	$10	1,623,954	294	5,238,561	4,871,862
0.121	50,000	9.26	93%		80.98	54,000	9.8	$ 3,240.00	0.1%	$40	50,220	9	162,000	150,660
0.001	350,000	64.81	93%		2,130.12	12,000	2.2	$ 1,620.00	0.0%	$1	11,160	2	36,000	33,480
0.000	8,000	1.48	93%		81,956.74	12,000	2.2	$ 1,620.00	0.0%	$0	11,160	2	36,000	33,480
0.180	110,000	20.37	93%		2,000.00	1,994,460	360.7	$ 153,900.00	5.2%	$77	1,854,848	335	5,983,381	5,564,544
22.895	150,000	27.78	93%		35.00	2,216,067	801.3	$ 318,816.00	5.8%	$9,109	2,060,942	745	11,080,335	10,304,712
15.299	15,000	2.78	93%		0.90	37,990	13.8	$ 1,944.00	0.1%	$2,160	35,330	13	189,949	176,652
7.595	50,000	9.26	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
7.595	10,000	1.85	93%		2.00	42,211	15.2	$ 1,944.00	0.1%	$972	39,256	14	211,054	196,280
7.595	11,000	2.04	93%		20.00	422,108	151.9	$ 48,600.00	1.1%	$2,430	392,560	141	2,110,540	1,962,802
7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
30.490	3,240	0.60	93%		0.38	32,400	11.7	$ 1,944.00	0.1%	$5,065	30,132	11	162,000	150,660
38.194	5,276	0.60	93%		0.50	52,764	19.1	$ 1,944.00	0.1%	$3,888	49,070	18	263,818	245,350
0.000	3,514	0.52	93%		150.00	35,140	0.0	$ 1,685.97	0.1%	$11	32,681	0	105,421	98,042
0.000	5,540	1.11	93%		175.00	55,402	0.0	$ 3,608.66	0.1%	$21	51,524	0	166,205	154,571
0.000	2,242	0.29	93%		25.00	22,424	0.0	$ 923.82	0.1%	$37	20,855	0	67,273	62,564
0.000	2,165	0.30	93%		60.00	21,654	0.0	$ 981.56	0.1%	$16	20,138	0	64,962	60,415
						21,740,000	5,817	**$ 1,408,490**	**76.7%**		20,218,200	3,620	270,020,000	251,118,600
						7,718,023		**$ 694,981**			7,177,759	1,793	29,303,553	27,252,304
						29,458,023		**$2,103,471**			27,395,959	5,413	299,323,553	278,370,904
								$0.065						
								$0.090						
								$0.071						

2019

EUL	Incentive Per kWh	Incremental Cost	kWh Svgs Per Unit	kW Svgs Per Unit	kWh Svgs Per Project	kW Svgs Per Project	Net to Gross	No. of Projects	Participating Units	Annual Total Gross Energy Savings (kWh)	Annual Total Gross Demand Savings (kW)	Total Incentives Paid ($)	Pct of Program Energy Savings	Incentive Per Project/Unit ($)	Net Annual Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)
15	0.080	$1,152,000			90,000	17.78	93%	80		7,200,000	1,422.2	$ 576,000.00	18.7%	$7,200	6,696,000	1,323	108,000,000	100,440,000
15	0.061	$0			90,000	13.33	93%	0		0	0.0	$ -	0.0%	#DIV/0!	0	0	0	0
15	0.061	$0			20,000	4.44	93%	0		0	0.0	$ -	0.0%	#DIV/0!	0	0	0	0
12	0.061	$274,500			50,000	4.44	93%	45		2,250,000	200.0	$ 137,250.00	5.9%	$3,050	2,092,500	186	27,000,000	25,110,000
15	0.052	$218,400			60,000	11.11	93%	35		2,100,000	388.9	$ 109,200.00	5.5%	$3,120	1,953,000	362	31,500,000	29,295,000
8	0.052	$93,600			90,000	16.67	93%	10		900,000	166.7	$ 46,800.00	2.3%	$4,680	837,000	155	7,200,000	6,696,000
12	0.052	$83,200			100,000	18.52	93%	8		800,000	148.1	$ 41,600.00	2.1%	$5,200	744,000	138	9,600,000	8,928,000
12	0.052	$49,920			80,000	14.81	93%	6		480,000	88.9	$ 24,960.00	1.2%	$4,160	446,400	83	5,760,000	5,356,800
8	0.052	$208,000			100,000	18.52	93%	20		2,000,000	370.4	$ 104,000.00	5.2%	$5,200	1,860,000	344	16,000,000	14,880,000
8	0.052	$156,000			150,000	27.78	93%	10		1,500,000	277.8	$ 78,000.00	3.9%	$7,800	1,395,000	258	12,000,000	11,160,000
10	0.052	$20,800			200,000	37.04	93%	1		200,000	37.0	$ 10,400.00	0.5%	$10,400	186,000	34	2,000,000	1,860,000
12	0.052	$0			100,000	18.52	93%	0		0	0.0	$ -	0.0%	$0	0	0	0	0
8	0.052	$260,000			250,000	46.30	93%	10		2,500,000	463.0	$ 130,000.00	6.5%	$13,000	2,325,000	431	20,000,000	18,600,000
3	$0.06	$57,242	908.59	0.164	125,000	23.15	93%		700.00	636,011	115.0	$ 38,161.00	1.7%	$55	591,490	107	1,908,034	1,774,471
3	$0.06	$2,430	141.41	0.026	20,000	3.70	93%		190.94	27,000	4.9	$ 1,620.00	0.1%	$8	25,110	5	81,000	75,330
3	$0.06	$2,430	149.53	0.027	20,000	3.70	93%		180.57	27,000	4.9	$ 1,620.00	0.1%	$9	25,110	5	81,000	75,330
3	$0.06	$145,800	174.62	0.032	100,000	18.52	93%		10,000.00	1,746,187	315.8	$ 97,200.00	4.5%	$10	1,623,954	294	5,238,561	4,871,862
3	$0.06	$4,860	666.79	0.121	50,000	9.26	93%		80.98	54,000	9.8	$ 3,240.00	0.1%	$40	50,220	9	162,000	150,660
3	$0.06	$2,430	5.63	0.001	350,000	64.81	93%		2,130.12	12,000	2.2	$ 1,620.00	0.0%	$1	11,160	2	36,000	33,480
3	$0.06	$2,430	0.15	0.000	8,000	1.48	93%		81,956.74	12,000	2.2	$ 1,620.00	0.0%	$0	11,160	2	36,000	33,480
3	$0.06	$230,850	997.23	0.180	110,000	20.37	93%		2,000.00	1,994,460	360.7	$ 153,900.00	5.2%	$77	1,854,848	335	5,983,381	5,564,544
5	$0.06	$478,224	63,316.20	22.895	150,000	27.78	93%		35.00	2,216,067	801.3	$ 318,816.00	5.8%	$9,109	2,060,942	745	11,080,335	10,304,712
5	$0.06	$2,916	42,210.80	15.299	15,000	2.78	93%		0.90	37,990	13.8	$ 1,944.00	0.1%	$2,160	35,330	13	189,949	176,652
5	$0.06	$2,916	21,105.40	7.595	50,000	9.26	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
5	$0.06	$2,916	42,210.80	15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
5	$0.06	$2,916	42,210.80	15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
5	$0.06	$2,916	21,105.40	7.595	10,000	1.85	93%		2.00	42,211	15.2	$ 1,944.00	0.1%	$972	39,256	14	211,054	196,280
5	$0.06	$72,900	21,105.40	7.595	11,000	2.04	93%		20.00	422,108	151.9	$ 48,600.00	1.1%	$2,430	392,560	141	2,110,540	1,962,802
5	$0.06	$2,916	21,105.40	7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
5	$0.06	$2,916	21,105.40	7.595	3,000	0.56	93%		1.75	36,934	13.3	$ 1,944.00	0.1%	$1,111	34,349	12	184,672	171,745
5	$0.06	$2,916	42,210.80	15.299	20,000	3.70	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
5	$0.06	$2,916	42,210.80	15.299	18,000	3.33	93%		0.95	40,100	14.5	$ 1,944.00	0.1%	$2,046	37,293	14	200,501	186,466
5	$0.06	$2,916	84,421.60	30.490	3,240	0.60	93%		0.38	32,400	11.7	$ 1,944.00	0.1%	$5,065	30,132	11	162,000	150,660
5	$0.06	$2,916	105,527.00	38.194	5,276	0.60	93%		0.50	52,764	19.1	$ 1,944.00	0.1%	$3,888	49,070	18	263,818	245,350
3	$0.06	$2,529	234.27	0.000	3,514	0.52	93%		150.00	35,140	0.0	$ 1,685.97	0.1%	$11	32,681	0	105,421	98,042
3	$0.06	$5,413	316.58	0.000	5,540	1.11	93%		175.00	55,402	0.0	$ 3,608.66	0.1%	$21	51,524	0	166,205	154,571
3	$0.06	$1,386	896.98	0.000	2,242	0.29	93%		25.00	22,424	0.0	$ 923.82	0.1%	$37	20,855	0	67,273	62,564
3	$0.06	$1,472	360.90	0.000	2,165	0.30	93%		60.00	21,654	0.0	$ 981.56	0.1%	$16	20,138	0	64,962	60,415
11.99		**$2,516,420**								19,930,000	5,489	**$ 1,258,210.00**	**72.0%**		18,534,900	3,314	239,060,000	222,325,800
3.80		**$1,042,472**								7,718,023		**$ 694,981.00**			7,177,759	1,793	29,303,553	27,252,304
9.71		$3,558,892								27,648,023		**$1,953,191**			25,712,659	5,107	268,363,553	249,578,104
												$0.063						
												$0.090						
												$0.071						

2017 =			Self Install Incentive	Pro Install Incentive		Demand / Participant (kW)	Energy / Participant (kWh) (4 mos.)	IN Max Expected Participation	IN Residential Customers	WIFI %	Laptop/ Tablet
2017-2019 =	Ecobee Tstat Provided by I&M BOT	Offer Incentive	$225	$125	Tendril I&M	2	800	35%	398,000	50%	50%
			$100			1.25	500	34,825			

	2017	2018	2019	Total
RPR Transition Customers	2,768	0	0	2,768
New Enrollees	2,011	4,022	4,022	10,055
Annual Total Participants	4,779	4,022	4,022	12,823
Cumulative Participants	4,779	8,801	12,823	
Demand Reduced (kW)	5,974	11,001	16,029	
Energy Savings (kWh)	2,389,500	4,400,500	6,411,500	13,201,500
Energy Net to Gross	59%	DemandNTG	100%	
Net Demand Reduced (kW)	5,974	11,001	16,029	
Net Energy Savings (kWh)	1,409,805	2,596,295	3,782,785	
Program Cost	2017	2018	2019	
I&M Staffing	$100,000	$100,000	$100,000	
Vendor Delivery (OE; Tstat Install; Legacy Switch Removal; IM use tax)	$1,596,753	$1,354,535	$1,026,122	
Customer Incentive	$735,399	$494,093	$536,088	
EM&V	$50,000	$50,000	$50,000	
Marketing	$13,384	$17,468	$8,168	
Total Cost	$2,495,536	$2,016,096	$1,720,377	
IMC (Programmable Tstat) Per unit	$175			
IMC (Programmable Tstat)	$836,325	$703,850	$703,850	
Participant Cost	$1,075,275	$904,950	$904,950	
Cost / kW	$417.75	$183.26	$107.33	
Cost / kWh	$1.04	$0.46	$0.27	
Vendor Delivery Only $ / kW	$267.29	$123.13	$64.02	
Cost per Participant	$522.19	$229.08	$134.16	

Legacy System Costs	Per Year		
Switch Removal	2017	2018	Total
Removal Labor Per Unit	$198		
Stranded Unit Removal Cost Per Year	$615,868	$615,868	
Transitioned Customers to Home Mgmt Sstat	$0	$0	
Total	$615,868	$615,868	$1,231,736

Strategy: per event bill credit with a max # events, bill savings from energy reduced
Conservative demand reduced: 1.25 kW per event
Conservative energy reduced: 125 kWh / summer month (4)

		4 mos.
Bill savings @ 100 kWh / mo.	$14	$55

Bill Event Credits Max	$29.22		
	$1.95		Weighted
# I&M Events		Probability	Average
1	$1.95	4%	$0.08
2	$3.90	4%	$0.16
3	$5.84	10%	$0.58
4	$7.79	15%	$1.17
5	$9.74	25%	$2.43
6	$11.69	15%	$1.75
7	$13.64	10%	$1.36
8	$15.58	7%	$1.09
9	$17.53	7%	$1.23
10	$19.48	3%	$0.58
11	$21.43	100%	$10.44
12	$23.38		
13	$25.32		
14	$27.27		
15	$29.22		

Annual Ongoing DR Events Bill Credits
2020 + 11 Yrs. (15-4 yrs = 11 yrs remaining)
$133,888

Transition strategy assumption: in fall/winter 2016, send notices to existing participants that the program is changing to a different device and the current system won't be supported for the 2017 cooling season.
Offer customers to switch for 2017 cooling season to stay in program or discontinue participation.
So, therefore, no legacy system operation costs during 2017, only new Tstat program costs.

Marketing Expense

Channels

Labor = $125/hr

	2017	2018	2019	Total	Initial Contact: Email 40%	Initial Contact: DM 60% x 1	Initial Contact: Web	2nd Contact: DM x 100%		Total	Cost/Cust
RPR Transition Cu	1,384	1,384	0	2,768	$1,650	$3,550	$3,500	$3,100	#	$18,600	$6.72

	2017	2018	2019	Total	Email 80%	DM 20% x 1	Web	DM x 100%		Total	Cost/Cust
New Enrollees	2,011	4,022	4,022	10,055	$10,500	$1,120	$2,000	na	#	$20,420	$2.03
			Total Customers	12,823						$39,020	$3.04

	2017	2018	2019
Yearly Total	$13,384	$17,468	$8,168

Existing RPR Pgm

2015 M&V Results

Table 6-3 Gross Impact kWh

Ex Ante Gross kWh Savings	Gross Audited kWh Savings	Gross Verified kWh Savings	Ex Post Gross kWh Savings	Realization Rate
31,496	31,496	31,496	31,496	53%

Table 6-4 Gross Impact kW

	Ex Ante Peak kW Savings	Audited Peak kW Savings	Verified Peak kW Savings	Ex Post Peak kW Savings
At the meter	5,632	5,632	5,632	3,777
Per Participant		0.7121		

2015 Actual RPR spend

			Budget	Actual
000020623 (Bill Credits)	IN-Resi Pea	Staffing	$110,405	$19,782
		Incentives	$360,000	$321,592
		Delivery	$304,430	$247,642
		Delivery Accrual	$0	$0
		EM&V	$50,000	$28,575
		EM&V Accrual	$0	$0
		Other	$0	$334
		Sum:	$824,835	$617,925

At the Meter Participants	At the Generator Participants	
7,909	7,909	
Cost / kW Reduced	Cost / kW Reduced	Delivery only / kW
$109.72	$99.74	$43.97
Cost / Participant	Cost / Participant	Delivery only / Partic.
$78.13	$78.13	$31.31

RPR Bill Credit PJM Market Pricing Analysis @ 1 kW Reduced

Planning Year (1)	RPM Clearing Price (2)	Net Cone Price (3)	35% of Net Cone Price 4)=(3)x35%	Greater of RPM and 35% Net Cone (5)=Max of (2) and (4)	Reserve Margin (6)	DR Factor (7)	Interruption Demand Credit (8)=[(5)x(6)x(7) x 365] / 1,000 kW
	$/MW-day	$/MW-day	$/MW-day	$/MW-day			$/kW-year
2009/2010	102.04	172.27	60.29	102.04	1.178	0.957	41.99
2010/2011	174.29	174.29	61.00	174.29	1.165	0.955	70.78
2011/2012	110.00	171.40	59.99	110.00	1.181	0.955	45.28
2012/2013	16.46	276.09	96.63	96.63	1.209	0.950	40.51
2013/2014	27.73	317.95	111.28	111.28	1.202	0.957	46.72
2014/2015	125.99	342.23	119.78	125.99	1.196	0.956	52.58
2015/2016	136.00	320.63	112.22	136.00	1.202	0.955	56.98
2016/2017	59.37	330.53	115.69	115.69	1.211	0.955	48.83
2017/2018	120.00	351.39	122.99	122.99	1.197	0.953	51.21
2018/2019	164.77	298.53	104.49	164.77	1.198	0.951	68.52
Average							**52.34**

Planning Year (1)	RPM Clearing Price (2)	Reserve Margin (3)	DR Factor (4)	Interruption Demand Credit (5)=[(2)x(3)x(4) x 365] / 1,000 kW	
	$/MW-day			$/kW-year	$/kW Month
2009/2010	102.04	1.178	0.957	41.99	$3.50
2010/2011	174.29	1.165	0.955	70.78	$5.90
2011/2012	110.00	1.181	0.955	45.28	$3.77
2012/2013	16.46	1.209	0.950	6.90	$0.58
2013/2014	27.73	1.202	0.957	11.64	$0.97
2014/2015	125.99	1.196	0.956	52.58	$4.38
2015/2016	136.00	1.202	0.955	56.98	$4.75
2016/2017	59.37	1.211	0.955	25.06	$2.09
2017/2018	120.00	1.197	0.953	49.96	$4.16
2018/2019	164.77	1.198	0.951	68.52	$5.71
10 Yr. Average				**42.97**	**$3.58**
2017 - 2019 3 Yr. Ave					**$3.99**

Max Events	Noon-8 PM		150 Hours 6 hrs/day		Per Event
	PJM	10		2017	
	I&M	15		2018	
	Total	25		2019	

Home Energy Engagement

	Home Energy Reports, Usage Portal for all I&M IN customers with SSO, and Calculators/Assessments					Online Assessment Kits					Usage Alerts--All I&M IN Customers					Total Program				
	# Participants	EUL (Yrs)	Savings (kWh)	Vendor Cost ($)	$/kWh	# Participants	EUL (Yrs)	Savings (kWh)	Vendor Cost ($)	$/kWh	# Participants	EUL (Yrs)	Savings (kWh)	Vendor Cost ($)	$/kWh	# Participants	EUL (Yrs)	Savings (kWh)	Vendor Cost ($)	$/kWh
2017	145,000	1	35,000,000	$1,019,581	$0.029	9,138	12	2,965,805	$299,253	$0.101	79,600	1	2,934,600	$200,000	$0.068	233,738	1.78	40,900,405	$1,518,834	$0.037
2018	145,000	1	35,000,000	$1,133,167	$0.032	8,225	12	2,669,225	$276,061	$0.103	79,600	1	3,521,520	$200,000	$0.057	232,825	1.70	41,190,745	$1,609,228	$0.039
2019	145,000	1	35,000,000	$1,303,184	$0.037	7,768	12	2,520,935	$267,242	$0.106	79,600	1	4,108,440	$200,000	$0.049	232,368	1.65	41,629,375	$1,770,426	$0.043
Total			105,000,000	$3,455,932	$0.033			8,155,965	$842,557	$0.103			10,564,560	$600,000	$0.057			123,720,525	$4,898,489	$0.040

	Program	Measure Name	Participants	Unit	Net-to-Gross
	Home Online Energy Checkup Kits	Electric Water Heat Kit	2,898	kit	77%
		Gas Water Heat Kit	6,240	kit	77%
2017		Total	9,138		
	Home Online Energy Checkup Kits	Electric Water Heat Kit	2,609	kit	77%
		Gas Water Heat Kit	5,616	kit	77%
2018		Total	8,225		
	Home Online Energy Checkup Kits	Electric Water Heat Kit	2,464	kit	77%
2019		Gas Water Heat Kit	5,304	kit	77%
		Total	7,768		

		Gas	Electric		
				Totals	
	Participants	7800	3623	11,423	
	kWh Savings/Kit	127.63	748.48		
	Tot kWh Savings	995,514	2,711,743	3,707,257	
	Kit Measures & Box	$30.46	$37.67		
			$136,478.41	$136,478.41	
	Total Delivery	$237,588	$136,478	$374,066	
	Electric Kit				
kW		Quantity	$ Per Measure	Total	Per Unit kWh

0	23-watt CFL	0	$1.55	$0.00	37.51
0	18-watt CFL	0	$1.42	$0.00	28.705
0	13-watt CFL	0	$1.09	$0.00	22.44
0.009	LED 9-watt	3	**$6.00**	$18.00	25.21
0.029	Showerhead	2	$2.44	$4.88	284.535
0.003	Kitchen Aerator	1	$0.94	$0.94	19.07
0.005	Bathroom Aerator	2	$0.91	$1.82	11.36
	Behavior Savings	1	$0.00	$0.00	62.00
	Installation Instructions			$0.00	
	Kit Box		$3.83	$3.83	
	Labor			$1.85	
	Shipping			$6.35	
0.046	Total	9		**$37.67**	

	Gas Kit				
		Quantity	$ Per Measure	Total	Per Unit kWh
0	23-watt CFL	0	$1.55	$0.00	35.40
0	18-watt CFL	0	$1.42	$0.00	27.7
0	13-watt CFL	0	$1.09	$0.00	22.29
0.009	LED 9-watt	3	**$6.00**	$18.00	25.21
0	LED Nightlight	2	$0.79	$1.58	10.50
	Behavior Savings	1	$0.00		31.00
	Installation Instructions				
	Labor				
	Kit Box		$2.68	$2.68	
	labor			$1.85	
	Shipping			$6.35	
0.009	Total	6		**$30.46**	

		Gas	Electric	Total
2017	Sales Tax on Kits Measures	$8,552.54	$5,202	$13,755
2018	Sales Tax on Kits Measures	$7,697.29	$4,682	$12,379
2019	Sales Tax on Kits Measures	$7,269.66	$4,422	$11,691

2017 Outreach

$0.25/Mailer	Direct Mailer	Est. Repsonse Rate	Participants
1st quarter mailer - March	350,000	0.015	5,250
2nd quarter mailer - May	120,000	0.015	1,800
3rd quarter mailer - Aug	115,000	0.015	1,725
4th quarter mailer - Oct	90,000	0.015	1,350
Total	675,000		10,125

2017 Total Estimated Mailer Cost **$168,750**

2018 Outreach

$0.25/Mailer	Direct Mailer	Est. Repsonse Rate	Participants
1st quarter mailer - March	349,000	0.015	5,235
2nd quarter mailer - May	119,000	0.015	1,785
3rd quarter mailer - Aug	114,000	0.015	1,710
4th quarter mailer - Oct	89,000	0.015	1,335
Total	671,000		10,065

2018 Total Estimated Mailer Cost **$167,750**

2019 Outreach

$0.25/Mailer	Direct Mailer	Est. Repsonse Rate	Participants
1st quarter mailer - March	339,000	0.015	5,085
2nd quarter mailer - May	109,000	0.015	1,635
3rd quarter mailer - Aug	104,000	0.015	1,560
4th quarter mailer - Oct	79,000	0.015	1,185

Total	631,000		9,465

2019 Total Estimated Mailer Cost **$157,750**

Measure Life (yrs)	Per Unit Energy Savings (kWh)	Per Unit Demand Savings (kW)	Kit Cost ($/unit)	Measure Cost ($/unit)	Incentive/kWh	Gross Annual Savings (kWh)	Net Annual Savings (kWh)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)
10.625	748.48	0.046	$37.67	$37.67		2,169,394	1,670,434	23,049,816	17,748,358
15	127.63	0.009	$30.46	$30.46		796,411	613,237	11,946,168	9,198,549
11.80	876	0.055				2,965,805	2,283,670	34,995,984	26,946,908
10.625	748.48	0.046	$38.61	$38.61		1,952,455	1,503,390	20,744,834	15,973,522
15	127.63	0.009	$31.22	$31.22		716,770	551,913	10,751,551	8,278,694
11.8	876	0.055				2,669,225	2,055,303	31,496,385	24,252,217
10.625	748.48	0.046	$39.58	$37.67		1,843,985	1,419,869	19,592,343	15,086,104
15	127.63	0.009	$32.00	$32.00		676,950	521,251	10,154,243	7,818,767
11.8	876	0.055				2,520,935	1,941,120	29,746,586	22,904,871

Electric Kit	Quantity	Ex-Ante kWh	2014 Evaluated-Total Measure Quantity
23-watt CFL	1	22.72	28.29
18-watt CFL	2	36.64	52.77
13-watt CFL	1	17.47	24.48
LED 9-watt	1	24.62	44.92
Showerhead	2	371.93	564.17
Kitchen Aerator	1	15.814	18.66
Bathroom Aerator	2	26.244	20.15
Behavior	0	10.4	129.66
Total	10	525.84	**883.10**

Total kWh	**EUL**

0	5	0%
0	5	
0	5	
75.63	15	10%
569.07	5	76%
19.07	10	6%
22.71	10	
62	1	8%
748.48		

Elec Kit Cost w/o shipping
$31.32

Gas Kit	Quantity	Ex-Ante kWh	2014 Evaluated
23-watt CFL	1	19.01	29.14
18-watt CFL	2	15.65	54.40
13-watt CFL	1	32.41	23.96
LED 9-watt	1	23.29	44.92
LED Nightlight	2	25.92	11.67
Behavior	0	135.09	96.89
Total	7	251.37	**260.98**

Total kWh	**EUL**	
0	5	0%
0	5	
0	5	
75.63	15	59%
21	15	16%
31	1	24%
127.63		

Gas Kit Cost w/o shipping
$24.11

Measure Type	*Ex Post Gross kWh Savings Per Kit - Electric*	*Ex Post Gross kW Savings Per Kit - Electric*	*Ex Post Gross kWh Savings Per Kit - Gas*
13w CFL	22.44	0.003	22.29
18w CFL	57.41	0.007	55.4
23w CFL	37.51	0.004	35.4
Energy efficient shc	569.07	0.029	-
Bathroom aerators	22.71	0.005	-
Kitchen aerator	19.07	0.003	-
9w LED	25.21	0.003	25.21
LED nightlights	-	-	21
Total	753	0.054	159

Gross Demand Savings (kw)	Net Demand Savings (kw)	Total Kit Cost ($)	Cost ($)
133	103	$109,183	
56	43	$190,070	
189	146	$299,253	
120	92	$100,721	
51	39	$175,340	
171	131	$276,061	
113	87	$97,504	
48	37	$169,739	
161	124	$267,242	

2015 Evaluated Per Unit kWh	2016 Evaluated Per Unit kW
37.51	0.004
28.705	0.0035
22.44	0.003
25.21	0.003
284.535	0.0145
19.07	0.003
11.355	0.0025
0	0
428.83	**0.03**

35.4	0.004
27.7	0.0035
22.29	0.003
25.21	0.003
10.5	0
0	0
121.10	**0.01**

Ex Post Gross kW Savings Per Kit - Gas
0.003
0.007
0.004
-
-
-
0.003
-
0.016

	IN TRM kWh/unit	EM&V Adjusted Deemed kWh/unit	kW/unit	unit
Site Visits				Sites
9.5 Watt E Star LED (Elec Heat only)	32.80	39.96	0.004	bulb
Showerheads (Elec DHW only)	218.84	422.84	0.011	units
Hand held Showerheads (Elec DHW only)	218.84	422.84	0.011	units
Kitchen Faucet Aerators (Elec DHW only)	38.53	26.96	0.018	units
Bath Faucet Aerators (Elec DHW only)	39.96	26.96	0.018	units
DHW Pipe Wrap (Per foot) (Elec DHW only)	26.69	73.49	0.003	Lin Ft
Water Heater Wrap (Elec DHW only)	80.47	80.47	0.01	units
Thermostat Adjustment	87.29	87.29	0.010	units
Shower Start w/Showerhead (Elec DHW only)	311.00	311.00	0.019	units
Customer Education (Audit Recomm. & IM Home A	188.00	188.00	0.010	Units
Audit/DI Total				
Air infiltration reduction HP	1,026.75	1,409.66	0.089	Homes
Air infiltration reduction EBB	1,659.75	1,409.66	0.000	Homes
Duct Sealing HP	379.00	314.57	0.118	Homes
Duct Sealing EBB + CAC	246.53	204.62	0.118	Homes
Ceiling Insulation R19 to R38 HP	686.29	569.62	0.176	Homes
Ceiling Insulation R11 to R38 HP	1,552.09	1,288.23	0.176	Homes
Ceiling Insulation R0 to R38 HP	9,856.20	8,180.65	0.176	Homes
Ceiling Insulation R11 to R38 EBB CAC	2,347.84	2,001.40	0.176	Homes
Ceiling Insulation R19 to R38 EBB CAC	1,053.19	896.12	0.176	Homes
Ceiling Insulation R0 to R38 EBB CAC	13,251.75	10,998.95	0.176	Homes
Sidewall insulation R3 - R11 HP	1,512.08	159.22	0.057	Homes
Sidewall insulation R3 - R11 EBB CAC	2,346.83	1,947.86	0.057	Homes
Knee wall insulation, R0 - R19 HP	151.21	125.50	0.300	Homes
Knee wall insulation, R0 - R19 EBB CAC	234.68	194.79	0.300	Homes
WiFi Tstat--HP	475.81	772.00	0.010	Homes
WiFi Tstat--EBB CAC		1,575.17	0.010	Homes
Weatherproofing Total				
Total Weatherproofing Program				

			2017	2018	2019
Use Tax on DI Measures		7%	$2,027	$2,027	$2,027
2016 DI Measure Cost	Shipping		0.138015		

		RAP's		RAP's
		Price	Total Est	Total Est

Measure	Units	p/Unit	Units	Cost
9.5 watt ENERGY STAR LED (or comparable LED)	bulb	$5.20	6000	$31,200.00
Showerheads (GPM 1.5)	units	$3.50	413	$1,445.50
Hand held Showerheads (GPM 1.5)	units	$11.20	138	$1,545.60
Kitchen Faucet Aerators (GPM 1.5)	units	$1.45	550	$797.50
Bath Faucet Aerators (GPM 1.0)	units	$1.48	550	$814.00
DHW Pipe Wrap – 3' length	Lin ft	$0.85	138	$117.30
				$35,919.90

Shipping cost for measure volume referenced above will not exceed $1,075. Additionally, I& will provide RAP with a 45 day notices for purchases.

$100 up front audit fee

IM Home	Auditor signs customer up for IM Home App to eng	
Sign up for major measure	Audit Fee refunded 100%	$8,750
Sign up for IM Home Energy Mgmt	Audit Fee refunded 100%	$2,625
Sign up for IM Home App	Audit Fee refunded 50%	$2,275
Total Audit Fee Refund		$13,650

Conversion %	NTG	EUL		Units Per Participant	Participants	Gross Total Energy Savings (kWh) *	Gross Annual Demand Savings (kW)	DI Measure Cost ($)
					350			
0.75	83%	15		12	262.5	125,865	12.241	$6.00
0.75	83%	5		1	262.5	110,995	2.888	$3.64
0.25	83%	5		1	87.5	36,998	0.963	$11.34
1.00	83%	10		1	350	9,435	6.458	$1.59
1.00	83%	10		2	350	18,870	12.915	$1.62
0.60	83%	15		6	210	92,601	3.839	$0.99
0.25	83%	5		1	87.5	7,041	0.804	$10.00
0.25	83%	2		1	87.5	7,638	0.875	$0.00
0.30	83%	10		1	105	32,655	1.985	$41.00
1.00	83%	1		1	350	65,800	3.500	$0.00
		9.3				507,898	46.47	$ 24,655.3
6%	83%	15		1	19	27,300	1.72	$650
15%	83%	15		1	53	74,007	0.00	$650
6%	83%	15		1	19	6,092	2.29	$400
10%	83%	15		1	35	7,162	4.13	$400
6%	83%	25		1	19	11,032	3.41	$908
15%	83%	25		1	53	67,632	9.24	$1,060
3%	83%	25		1	11	85,897	1.85	$1,060
20%	83%	25		1	70	140,098	12.32	$1,060
10%	83%	25		1	35	31,364	6.16	$908
2%	83%	25		1	7	76,993	1.23	$908
6%	83%	25		1	19	3,084	1.10	$3,000
6%	83%	25		1	19	37,724	1.10	$3,000
6%	83%	25		1	19	2,431	5.81	$230
6%	83%	25		1	19	3,772	5.81	$230
5%	83%	15		1	18	13,510	0.18	$175
6%	83%	15		1	21	33,079	0.21	$175
		22.4				621,175	57	
		16.5				**1,129,074**	**103.03**	

Measure Type	*Ex ante Annual Savings (kWh)*	*Ex post Gross Annual Savings (kWh)*	*Realization Rate*

Air Infiltratio	25,535	25,378	99%
Attic Insulatio	55,536	42,834	77%
Customer Edu	30,254	11,410	38%
Duct Sealing	2,521	6,055	240%
Faucet Aerato	1,983	1,942	98%
LED Lamp	39,454	37,644	95%
Pipe Insulatio	11,338	9,775	86%
Showerhead	15,898	27,389	172%
Sidewall Insul	15,458	2,783	18%
Total	197,978	165,210	83%

:M

age customer long term

Measure Type	*PY6 Program Goals (kWh)*	*NTGR*	*Ex post Annual Savings (kWh)*
Air Infiltratio	1,276,803	92%	25,378
Attic Insulati		72%	42,834
Customer Edu		100%	11,410
Duct Sealing		100%	6,055
Faucet Aerato		82%	1,942
LED Lamp		82%	37,644
Pipe Insulatio		82%	9,775
Showerhead		82%	27,389
Sidewall Insu		72%	2,783
Total		83%	165,210

2017

Measure Incentive ($)	DI Labor ($)	Total DI Cost ($)	Total Participant Measure Cost	Total Measure Incentive	Units Per Participant	Participants	Gross Total Energy Savings (kWh) *
	$151	$52,923				350	
$0.00	$25.12	$8,792	$18,900	$0	12	262.5	125,865
$0.00	$8.37	$2,931	$955	$0	1	262.5	110,995
$0.00	$8.37	$2,931	$992	$0	1	87.5	36,998
$0.00	$8.37	$2,931	$556	$0	1	350	9,435
$0.00	$8.37	$2,931	$1,133	$0	2	350	18,870
$0.00	$8.37	$2,931	$1,245	$0	6	210	92,601
$0.00	$4.19	$1,465	$875	$0	1	87.5	7,041
$0.00	$8.37	$2,931	$0	$0	1	87.5	7,638
$0.00	$4.19	$1,465	$4,305	$0	1	105	32,655
$0.00	$0.00	$0	$0	$0	1	350	65,800
$ -		$82,231	$28,960	$0			507,898
$487.50	$0.00	$0	$12,588	$9,441	1	19	27,300
$487.50	$0.00	$0	$34,125	$25,594	1	53	74,007
$200.00	$0.00	$0	$7,747	$3,873	1	19	6,092
$200.00	$0.00	$0	$14,000	$7,000	1	35	7,162
$681.00	$0.00	$0	$17,585	$13,189	1	19	11,032
$795.00	$0.00	$0	$55,650	$41,738	1	53	67,632
$795.00	$0.00	$0	$11,130	$8,348	1	11	85,897
$795.00	$0.00	$0	$74,200	$55,650	1	70	140,098
$681.00	$0.00	$0	$31,780	$23,835	1	35	31,364
$681.00	$0.00	$0	$6,356	$4,767	1	7	76,993
$2,250.00	$0.00	$0	$58,100	$43,575	1	19	3,084
$2,250.00	$0.00	$0	$58,100	$43,575	1	19	37,724
$172.50	$0.00	$0	$4,454	$3,341	1	19	2,431
$172.50	$0.00	$0	$4,454	$3,341	1	19	3,772
$131.25	$0.00	$0	$3,063	$2,297	1	18	13,510
$131.25	$0.00	$0	$3,675	$2,756	1	21	33,079
		$0	$397,007	$292,319			621,175
		$82,231	**$425,967**	**$292,319**			**1,129,074**

Ex post *Demand Savings (kW)*	*Net Ex Post Annual Savings* *(kWh)*	*Net Ex Post Demand Savings (kW)*	*Verified Peak Demand Realization to Eval.* *Realization*
1.34	23,348	1.23	
3.82	30,841	2.75	
0.65	11,410	0.65	
2.48	6,055	2.48	
0.37	1,593	0.3	
4.47	30,868	3.67	
1.12	8,015	0.91	
1.4	22,459	1.15	
0.3	2,004	0.22	
15.95	136,592	13.37	0.83947368

2018								
Gross Annual Demand Savings (kW)	DI Measure Cost ($)	Measure Incentive ($)	Audit / DI Labor ($)	Total Audit / DI Measure Cost ($)	Total Shell Measure Cost	Total Shell Measure Incentive	Units Per Participant	Participants
			$151	$52,923				350
12.241	$6.00	$0.00	$41.87	$33,554	$18,900	$0	12	262.5
2.888	$3.64	$0.00	$8.37	$3,886	$955	$0	1	262.5
0.963	$11.34	$0.00	$8.37	$3,923	$992	$0	1	87.5
6.458	$1.59	$0.00	$8.37	$3,487	$556	$0	1	350
12.915	$1.62	$0.00	$8.37	$4,063	$1,133	$0	2	350
3.839	$0.99	$0.00	$8.37	$4,176	$1,245	$0	6	210
0.804	$10.00	$0.00	$4.19	$1,465	$875	$0	1	87.5
0.875	$0.00	$0.00	$8.37	$2,931	$0	$0	1	87.5
1.985	$41.00	$0.00	$4.19	$1,465	$4,305	$0	1	105
3.500	$0.00	$0.00	$0.00	$0	$0	$0	1	350
46.47				$111,873	$28,960	$0		
1.72	$650	$487.50	$0.00	$0	$12,588	$9,441	1	19
0.00	$650	$487.50	$0.00	$0	$34,125	$25,594	1	53
2.29	$400	$200.00	$0.00	$0	$7,747	$3,873	1	19
4.13	$400	$200.00	$0.00	$0	$14,000	$7,000	1	35
3.41	$908	$681.00	$0.00	$0	$17,585	$13,189	1	19
9.24	$1,060	$795.00	$0.00	$0	$55,650	$41,738	1	53
1.85	$1,060	$795.00	$0.00	$0	$11,130	$8,348	1	11
12.32	$1,060	$795.00	$0.00	$0	$74,200	$55,650	1	70
6.16	$908	$681.00	$0.00	$0	$31,780	$23,835	1	35
1.23	$908	$681.00	$0.00	$0	$6,356	$4,767	1	7
1.10	$3,000	$2,250.00	$0.00	$0	$58,100	$43,575	1	19
1.10	$3,000	$2,250.00	$0.00	$0	$58,100	$43,575	1	19
5.81	$230	$172.50	$0.00	$0	$4,454	$3,341	1	19
5.81	$230	$172.50	$0.00	$0	$4,454	$3,341	1	19
0.18	$175	$131.25	$0.00	$0	$3,063	$2,297	1	18
0.21	$175	$131.25	$0.00	$0	$3,675	$2,756	1	21
56.56				$0	$397,007	$292,319		
103.03				**$111,873**	**$425,967**	**$292,319**		

2019							
Gross Total Energy Savings (kWh) *	**Gross Annual Demand Savings (kW)**	**DI Measure Cost ($)**	**Measure Incentive ($)**	**Audit / DI Labor ($)**	**Total Audit / DI Measure Cost ($)**	**Total Shell Measure Cost**	**Total Shell Measure Incentive**
				$151	$52,923		
125,865	12.241	$6.00	$0.00	$41.87	$33,554	$18,900	$0
110,995	2.888	$3.64	$0.00	$8.37	$3,886	$955	$0
36,998	0.963	$11.34	$0.00	$8.37	$3,923	$992	$0
9,435	6.458	$1.59	$0.00	$8.37	$3,487	$556	$0
18,870	12.915	$1.62	$0.00	$8.37	$4,063	$1,133	$0
92,601	3.839	$0.99	$0.00	$8.37	$4,176	$1,245	$0
7,041	0.804	$10.00	$0.00	$4.19	$1,465	$875	$0
7,638	0.875	$0.00	$0.00	$8.37	$2,931	$0	$0
32,655	1.985	$41.00	$0.00	$4.19	$1,465	$4,305	$0
65,800	3.500	$0.00	$0.00	$0.00	$0	$0	$0
507,898	46.47				$111,873	$28,960	$0
27,300	1.72	$650	$487.50	$0.00	$0	$12,588	$9,441
74,007	0.00	$650	$487.50	$0.00	$0	$34,125	$25,594
6,092	2.29	$400	$200.00	$0.00	$0	$7,747	$3,873
7,162	4.13	$400	$200.00	$0.00	$0	$14,000	$7,000
11,032	3.41	$908	$681.00	$0.00	$0	$17,585	$13,189
67,632	9.24	$1,060	$795.00	$0.00	$0	$55,650	$41,738
85,897	1.85	$1,060	$795.00	$0.00	$0	$11,130	$8,348
140,098	12.32	$1,060	$795.00	$0.00	$0	$74,200	$55,650
31,364	6.16	$908	$681.00	$0.00	$0	$31,780	$23,835
76,993	1.23	$908	$681.00	$0.00	$0	$6,356	$4,767
3,084	1.10	$3,000	$2,250.00	$0.00	$0	$58,100	$43,575
37,724	1.10	$3,000	$2,250.00	$0.00	$0	$58,100	$43,575
2,431	5.81	$230	$172.50	$0.00	$0	$4,454	$3,341
3,772	5.81	$230	$172.50	$0.00	$0	$4,454	$3,341
13,510	0.18	$175	$131.25	$0.00	$0	$3,063	$2,297
33,079	0.21	$175	$131.25	$0.00	$0	$3,675	$2,756
621,175	56.56				$0	$397,007	$292,319
1,129,074	**103.03**				**$111,873**	**$425,967**	**$292,319**

Audits Only	Per FTE Annual Hrs Avail.*	Weatherization Audit Hrs/Audit incl DI	Travel	# Audits
IN		3.50	0.50	350.00
MI		3.50	0.50	100.00
	1448.00			450.00

*3 weeks vac.; 2 weeks training; 1 day/week office; 8 holidays

52 weeks; 5 days/wk; 8 hrs/day 2,080

	Units	Per Unit	Overhead	Total
Auditor	1	$75,000	1.45	$108,750
I&M Vehicle--Lease	1	$9,000		$9,000
Vehicle Fuel--included in vehicle lease cost	20,000	20 mpg	$3 per gal	$0
Audit Tool Cost--Internal	Per Audit	$0.00		$0
Tools (Ladder cost, cell phone, etc)				$3,500

	2017			
Res. Weatherization Outreach	Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload
Direct Mail	0.25	1.50%	25,000	375
I&M Marketing Resource				
Collateral Material & Printing				
Total				
Rebate Check Processing	# Checks	Hrs	Cost	
Payment Coordinator	88	43.75	$2,275	
Use Tax on DI Measures	$2,027			

	2017			
IQW Outreach	Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload
Direct Mail	0.25	1.10%	18,000	198
I&M Marketing Resource				

Collateral Material & Printing			
Total			
Rebate Check Processing	# Checks	Hrs	Cost
Payment Coordinator	150	75	$3,900
Use Tax on DI Measures	$6,056		

Total Hrs. Req'd	# Auditors Req'd	IQW Audit Hrs/Audit incl DI	Travel	# Audits	Total Hrs. Req'd	# Auditors Req'd	Total Auditor FTEs Req'd	Weather
1400.00	0.97	5.00	0.50	150.00	825.00	0.57	1.54	50%
400.00	0.28	5.00	0.50	30.00	165.00	0.11	0.39	14%
1800.00	1.24			180.00	990.00	0.68	1.93	64%
	64%					35%		

	IN		MI		Total
	Weather.	IQW	Weather.	IQW	
	$105,145	$61,960	$30,041	$12,392	$209,539
	$8,702	$5,128	$2,486	$1,026	$17,341
	$0	$0	$0	$0	$0
	$3,384	$1,994	$967	$399	$6,744
Total	$117,231	$69,082	$33,494	$13,816	$233,624
Per Audit	$335	$461	$335	$461	$371
$ / Hr.	$83.74	$83.74	$83.74	$83.74	$83.74

1.93

# Mailers	Mailer Cost
50,000	$12,500
	$3,444
	$2,500
	$18,444

2018

Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload
0.25	1.50%	25,000	375

# Checks	Hrs	Cost
88	43.75	$2,275
$2,027		

# Mailers	Mailer Cost
50,000	$12,500
	$3,444
	$2,500
	$18,444

# Mailers	Mailer Cost
36,000	$9,000
	$7,600

2018

Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload
0.25	1.10%	18,000	198

# Mailers	Mailer Cost
36,000	$9,000
	$7,600

$5,000	
$21,600	

				$5,000
				$21,600
# Checks	Hrs	Cost		
150	75	$3,900		
$6,056				

IQW	Total
30%	0.759823
6%	0.238584
35%	0.998407

2019					
Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload	# Mailers	Mailer Cost
0.25	1.50%	25,000	375	50,000	$12,500
					$3,444
					$2,500
					$18,444
# Checks	Hrs	Cost			
88	43.75	$2,275			
$2,027					

2019					
Mailer Cost--Per Unit	Response Rate	# Customers	Possible Audit Workload	# Mailers	Mailer Cost
0.25	1.10%	18,000	198	36,000	$9,000
					$7,600

					$5,000
					$21,600
# Checks	Hrs	Cost			
150	75	$3,900			
$6,056					

3 Yr. Income Qualified Weatherproofing Program Measure Breakdown

	kWh/unit	EM&V Adjusted Deemed kWh/unit	kW/unit	NTG	EUL
Site Visits					
9.5 Watt E Star LED (Elec Heat only)	32.80	39.96	0.004	100%	15
Showerheads (Elec DHW only)	218.84	422.84	0.011	100%	5
Hand held Showerheads (Elec DHW only)	218.84	422.84	0.011	100%	5
Kitchen Faucet Aerators (Elec DHW only)	38.53	26.96	0.018	100%	10
Bath Faucet Aerators (Elec DHW only)	39.96	26.96	0.018	100%	10
DHW Pipe Wrap (Per foot) (Elec DHW only)	26.69	73.49	0.003	100%	15
Water Heater Wrap (Elec DHW only)	80.47	80.47	0.01	100%	5
Thermostat Adjustment	87.29	87.29	0.010	100%	2
Shower Start w/Showerhead (Elec DHW only)	311.00	311.00	0.019	100%	10
Customer Education (IM Home App)	188.00	188.00	0.010	100%	1
Audit/DI Total					8.6
Air infiltration reduction-HP	1,026.75	1,409.66	0.089	100%	15
Air infiltration reduction-EBB	1,659.75	1,409.66	0.000	100%	15
Duct Sealing HP	379.00	314.57	0.118	100%	15
Duct Sealing EBB	246.53	204.62	0.118	100%	15
Ceiling Insulation R19 to R38 HP	686.29	569.62	0.176	100%	25
Ceiling Insulation R8 to R38 HP	1,552.09	1,288.23	0.176	100%	25
Ceiling Insulation R0 to R 38 HP	9,856.20	8,180.65	0.176	100%	25
Ceiling Insulation R8 to R38 EBB	2,347.84	2,001.40	0.176	100%	25
Ceiling Insulation R19 to R38 EBB	1,053.19	896.12	0.176	100%	15
Ceiling Insulation R0 to R 38 EBB	13,251.75	10,998.95	0.176	100%	15
Sidewall insulation R3 - R11 HP	1,512.08	159.22	0.057	100%	25
Sidewall insulation R3 - R11 EBB	2,346.83	1,947.86	0.057	100%	25
Knee wall insulation, R0 - R19 HP	151.21	125.50	0.300	100%	25
Knee wall insulation, R0 - R19 EBB	234.68	194.79	0.300	100%	25
Thermostat (Smart/Programmable)	475.81	400.39	0.000	100%	15
Efficient Refrigerators		1,077.00	0.127	100%	16
AC Tune-Up		48.50	0.127	100%	5
HP Tune-Up		337.58	0.127	100%	5
Weatherproofing Total					17.1
Total Weatherproofing Program					**14.1**

	2017	2018	2019
Use Tax on DI Measures	$6,056.48	$6,056.48	$6,056.48

	IQW HERS				
	# Participants	EUL (Yrs)	Savings (kWh)	Vendor Cost ($)	$/kWh
2017	2,500	1	50,000	$19,500	$0.39
2018	2,500	1	60,000	$19,500	$0.33
2019	2,500	1	70,000	$19,500	$0.28
Total			180,000	$58,500	$0.325

Conversion %	unit	Units/Participant	# Participants/Measures	Gross Total Energy Savings (kWh) *	Gross Annual Demand Savings (kW)	Per Unit Measure Cost ($)	Measure Incentive ($)	Per Unit DI Labor ($)
	Sites		**150**				$251	
0.75	bulb	9.00	113	40,457	3.93	$5.34	$0.00	$25.12
0.75	units	0.75	113	35,677	0.93	$3.64	$0.00	$8.37
0.25	units	0.25	38	3,964	0.10	$11.34	$0.00	$8.37
1.00	units	1.00	150	4,044	2.77	$1.59	$0.00	$8.37
1.00	units	1.00	150	4,044	2.77	$1.62	$0.00	$8.37
0.25	Lin Ft	6.00	38	16,536	0.69	$0.99	$0.00	$8.37
0.25	units	1.00	38	3,017	0.34	$10.00	$0.00	$4.19
0.25	units	1.00	38	3,274	0.38	10.000	$0.00	$8.37
0.30	units	1.00	45	13,995	0.85	$41.00	$0.00	$4.19
1.00	units	1.00	150	28,200	1.50	$0.00	$0.00	$0.00
				153,207	14.26			
6%	Homes		50	70,483	4.45	$650	$0.00	$0.00
15%	Homes		50	70,483	0.00	$650	$0.00	$0.00
6%	Homes		5	1,573	0.59	$400	$0.00	$0.00
10%	Homes		5	1,023	0.59	$400	$0.00	$0.00
6%	Homes		25	14,240	4.40	$908	$0.00	$0.00
15%	Homes		30	38,647	5.28	$1,060	$0.00	$0.00
3%	Homes		2	16,361	0.35	$1,060	$0.00	$0.00
20%	Homes		15	30,021	2.64	$1,060	$0.00	$0.00
10%	Homes		17	15,234	2.99	$908	$0.00	$0.00
2%	Homes		1	10,999	0.18	$908	$0.00	$0.00
6%	Homes		1	159	0.06	$3,000	$0.00	$0.00
6%	Homes		1	1,948	0.06	$3,000	$0.00	$0.00
6%	Homes		3	377	0.90	$230	$0.00	$0.00
6%	Homes		1	195	0.30	$230	$0.00	$0.00
33%	Units		50	20,020	0.00	$100	$0.00	$100.00
	Homes		200	215,400	25.34	$400	$0.00	$100.00
25%	Homes		38	1,819	4.77	$64	$0.00	$0.00
25%	Homes		38	12,659	4.77	$64	$0.00	$0.00
			531	521,640	58			
				674,847	**71.92**	**254,584**	**37,681**	

2017 Program

Total Measure Cost ($)	Total Audit / DI Measure Cost ($)	Net Total Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)	Incentive / kWh ($/kWh)	Total Shell Measure Cost	# Participants/Measures
$37,681								**150**
$5,405	$3,768	40,457	3.93	606,849	606,849	$0.13	$0	113
$307	$1,256	35,677	0.93	178,384	178,384	$0.01	$0	113
$106	$1,256	3,964	0.10	19,820	19,820	$0.03	$0	38
$238	$1,256	4,044	2.77	40,436	40,436	$0.06	$0	150
$243	$1,256	4,044	2.77	40,436	40,436	$0.06	$0	150
$222	$1,256	16,536	0.69	248,038	248,038	$0.01	$0	38
$375	$628	3,017	0.34	15,087	15,087	$0.12	$0	38
$375	$1,256	3,274	0.38	6,547	6,547	$0.11	$0	38
$1,845	$628	13,995	0.85	139,950	139,950	$0.13	$0	45
$0	$0	28,200	1.50	28,200	28,200	$0.00	$0	150
$9,116	$12,560	153,207	14	1,323,749	1,323,749	$0.06		
$32,500	$0	70,483	4.45	1,057,242	1,057,242	$0.46	$32,500	50
$32,500	$0	70,483	0.00	1,057,242	1,057,242	$0.46	$32,500	50
$2,000	$0	1,573	0.59	23,593	23,593	$1.27	$2,000	5
$2,000	$0	1,023	0.59	15,347	15,347	$1.95	$2,000	5
$22,700	$0	14,240	4.40	356,012	356,012	$1.59	$22,700	25
$31,800	$0	38,647	5.28	966,174	966,174	$0.82	$31,800	30
$2,120	$0	16,361	0.35	409,032	409,032	$0.13	$2,120	2
$15,900	$0	30,021	2.64	750,525	750,525	$0.53	$15,900	15
$15,436	$0	15,234	2.99	228,511	228,511	$1.01	$15,436	17
$908	$0	10,999	0.18	164,984	164,984	$0.08	$908	1
$3,000	$0	159	0.06	3,980	3,980	$18.84	$3,000	1
$3,000	$0	1,948	0.06	48,697	48,697	$1.54	$3,000	1
$690	$0	377	0.90	9,413	9,413	$1.83	$690	3
$230	$0	195	0.30	4,870	4,870	$1.18	$230	1
$10,000	$0	20,020	0.00	300,294	300,294	$0.50	$5,000	50
$100,000	$0	215,400	25.34	3,446,400	3,446,400	$0.46	$80,000	200
$2,400	$0	1,819	4.77	9,093	9,093	$1.32	$2,400	38
$2,400	$0	12,659	4.77	63,297	63,297	$0.19	$2,400	38
279,584	$12,560	521,640	58	8,914,706	8,914,706	$0.54	249,784	531
$288,700		**674,847**	**72**	**10,238,455**	**10,238,455**	**$0.43**	**$249,784**	

							2018 Program	
Gross Total Energy Savings (kWh) *	Gross Annual Demand Savings (kW)	Per Unit Measure Cost ($)	Measure Incentive ($)	Per Unit DI Labor ($)	Total Measure Cost ($)	Total Audit / DI Measure Cost ($)	Net Total Energy Savings (kWh)	Net Annual Demand Savings (kW)
			$251		$37,681			
40,457	3.93	$5.34	$0.00	$25.12	$5,405	$9,173	40,457	3.93
35,677	0.93	$3.64	$0.00	$8.37	$307	$1,563	35,677	0.93
3,964	0.10	$11.34	$0.00	$8.37	$106	$1,362	3,964	0.10
4,044	2.77	$1.59	$0.00	$8.37	$238	$1,494	4,044	2.77
4,044	2.77	$1.62	$0.00	$8.37	$243	$1,499	4,044	2.77
16,536	0.69	$0.99	$0.00	$8.37	$222	$1,478	16,536	0.69
3,017	0.34	$10.00	$0.00	$4.19	$375	$1,003	3,017	0.34
3,274	0.38	10.000	$0.00	$8.37	$375	$1,631	3,274	0.38
13,995	0.85	$41.00	$0.00	$4.19	$1,845	$2,473	13,995	0.85
28,200	1.50	$0.00	$0.00	$0.00	$0	$0	28,200	1.50
153,207	14.26				$9,116	$21,677	153,207	14
70,483	4.45	$650	$0.00	$0.00	$32,500	$0	70,483	4.45
70,483	0.00	$650	$0.00	$0.00	$32,500	$0	70,483	0.00
1,573	0.59	$400	$0.00	$0.00	$2,000	$0	1,573	0.59
1,023	0.59	$400	$0.00	$0.00	$2,000	$0	1,023	0.59
14,240	4.40	$908	$0.00	$0.00	$22,700	$0	14,240	4.40
38,647	5.28	$1,060	$0.00	$0.00	$31,800	$0	38,647	5.28
16,361	0.35	$1,060	$0.00	$0.00	$2,120	$0	16,361	0.35
30,021	2.64	$1,060	$0.00	$0.00	$15,900	$0	30,021	2.64
15,234	2.99	$908	$0.00	$0.00	$15,436	$0	15,234	2.99
10,999	0.18	$908	$0.00	$0.00	$908	$0	10,999	0.18
159	0.06	$3,000	$0.00	$0.00	$3,000	$0	159	0.06
1,948	0.06	$3,000	$0.00	$0.00	$3,000	$0	1,948	0.06
377	0.90	$230	$0.00	$0.00	$690	$0	377	0.90
195	0.30	$230	$0.00	$0.00	$230	$0	195	0.30
20,020	0.00	$100	$0.00	$100.00	$10,000	$0	20,020	0.00
215,400	25.34	$400	$0.00	$100.00	$100,000	$0	215,400	25.34
1,819	4.77	$64	$0.00	$0.00	$2,400	$0	1,819	4.77
12,659	4.77	$64	$0.00	$0.00	$2,400	$0	12,659	4.77
521,640	58				279,584	$0	521,640	58
674,847	**71.92**	**169,784**	**37,681**		**$288,700**	**$21,677**	**674,847**	**72**

Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)	Incentive / kWh ($/kWh)	Total Shell Measure Cost	# Participants/Measures	Gross Total Energy Savings (kWh) *	Gross Annual Demand Savings (kW)	Per Unit Measure Cost ($)
				150			
606,849	606,849	$0.13	$0	113	40,457	3.93	$5.34
178,384	178,384	$0.01	$0	113	35,677	0.93	$3.64
19,820	19,820	$0.03	$0	38	3,964	0.10	$11.34
40,436	40,436	$0.06	$0	150	4,044	2.77	$1.59
40,436	40,436	$0.06	$0	150	4,044	2.77	$1.62
248,038	248,038	$0.01	$0	38	16,536	0.69	$0.99
15,087	15,087	$0.12	$0	38	3,017	0.34	$10.00
6,547	6,547	$0.11	$0	38	3,274	0.38	10.000
139,950	139,950	$0.13	$0	45	13,995	0.85	$41.00
28,200	28,200	$0.00	$0	150	28,200	1.50	$0.00
1,323,749	1,323,749	$0.06			153,207	14.26	
1,057,242	1,057,242	$0.46	$32,500	50	70,483	4.45	$650
1,057,242	1,057,242	$0.46	$32,500	50	70,483	0.00	$650
23,593	23,593	$1.27	$2,000	5	1,573	0.59	$400
15,347	15,347	$1.95	$2,000	5	1,023	0.59	$400
356,012	356,012	$1.59	$22,700	25	14,240	4.40	$908
966,174	966,174	$0.82	$31,800	30	38,647	5.28	$1,060
409,032	409,032	$0.13	$2,120	2	16,361	0.35	$1,060
750,525	750,525	$0.53	$15,900	15	30,021	2.64	$1,060
228,511	228,511	$1.01	$15,436	17	15,234	2.99	$908
164,984	164,984	$0.08	$908	1	10,999	0.18	$908
3,980	3,980	$18.84	$3,000	1	159	0.06	$3,000
48,697	48,697	$1.54	$3,000	1	1,948	0.06	$3,000
9,413	9,413	$1.83	$690	3	377	0.90	$230
4,870	4,870	$1.18	$230	1	195	0.30	$230
300,294	300,294	$0.50	$5,000	50	20,020	0.00	$100
3,446,400	3,446,400	$0.46	$80,000	200	215,400	25.34	$400
9,093	9,093	$1.32	$2,400	38	1,819	4.77	$64
63,297	63,297	$0.19	$2,400	38	12,659	4.77	$64
8,914,706	8,914,706	$0.54	254,584	531	521,640	58	
10,238,455	**10,238,455**	**$0.43**	**$254,584**		**674,847**	**71.92**	**254,584**

2019 Program									
Measure Incentive ($)	Per Unit DI Labor ($)	Total Measure Cost ($)	Total Audit / DI Measure Cost ($)	Net Total Energy Savings (kWh)	Net Annual Demand Savings (kW)	Lifetime Gross Energy Savings (kWh)	Lifetime Net Energy Savings (kWh)	Incentive / kWh ($/kWh)	Total Shell Measure Cost
$251		$37,681							
$0.00	$25.12	$5,405	$9,173	40,457	3.93	606,849	606,849	$0.13	$0
$0.00	$8.37	$307	$1,563	35,677	0.93	178,384	178,384	$0.01	$0
$0.00	$8.37	$106	$1,362	3,964	0.10	19,820	19,820	$0.03	$0
$0.00	$8.37	$238	$1,494	4,044	2.77	40,436	40,436	$0.06	$0
$0.00	$8.37	$243	$1,499	4,044	2.77	40,436	40,436	$0.06	$0
$0.00	$8.37	$222	$1,478	16,536	0.69	248,038	248,038	$0.01	$0
$0.00	$4.19	$375	$1,003	3,017	0.34	15,087	15,087	$0.12	$0
$0.00	$8.37	$375	$1,631	3,274	0.38	6,547	6,547	$0.11	$0
$0.00	$4.19	$1,845	$2,473	13,995	0.85	139,950	139,950	$0.13	$0
$0.00	$0.00	$0	$0	28,200	1.50	28,200	28,200	$0.00	$0
		$9,116	$21,677	153,207	14	1,323,749	1,323,749	$0.06	
$0.00	$0.00	$32,500	$0	70,483	4.45	1,057,242	1,057,242	$0.46	$32,500
$0.00	$0.00	$32,500	$0	70,483	0.00	1,057,242	1,057,242	$0.46	$32,500
$0.00	$0.00	$2,000	$0	1,573	0.59	23,593	23,593	$1.27	$2,000
$0.00	$0.00	$2,000	$0	1,023	0.59	15,347	15,347	$1.95	$2,000
$0.00	$0.00	$22,700	$0	14,240	4.40	356,012	356,012	$1.59	$22,700
$0.00	$0.00	$31,800	$0	38,647	5.28	966,174	966,174	$0.82	$31,800
$0.00	$0.00	$2,120	$0	16,361	0.35	409,032	409,032	$0.13	$2,120
$0.00	$0.00	$15,900	$0	30,021	2.64	750,525	750,525	$0.53	$15,900
$0.00	$0.00	$15,436	$0	15,234	2.99	228,511	228,511	$1.01	$15,436
$0.00	$0.00	$908	$0	10,999	0.18	164,984	164,984	$0.08	$908
$0.00	$0.00	$3,000	$0	159	0.06	3,980	3,980	$18.84	$3,000
$0.00	$0.00	$3,000	$0	1,948	0.06	48,697	48,697	$1.54	$3,000
$0.00	$0.00	$690	$0	377	0.90	9,413	9,413	$1.83	$690
$0.00	$0.00	$230	$0	195	0.30	4,870	4,870	$1.18	$230
$0.00	$100.00	$10,000	$0	20,020	0.00	300,294	300,294	$0.50	$5,000
$0.00	$100.00	$100,000	$0	215,400	25.34	3,446,400	3,446,400	$0.46	$80,000
$0.00	$0.00	$2,400	$0	1,819	4.77	9,093	9,093	$1.32	$2,400
$0.00	$0.00	$2,400	$0	12,659	4.77	63,297	63,297	$0.19	$2,400
		279,584	0	521,640	58	8,914,706	8,914,706	$0.54	254,584
37,681		**$288,700**		**674,847**	**72**	**10,238,455**	**10,238,455**	**$0.43**	**$254,584**

					2017 Program													2018 Program												
3 Yr. Home Energy Products Program	**kWh/unit**	**kW/unit**	**unit**	**EUL**	**# Units**	**Total Gross Energy Savings (kWh) ***	**Total Gross Demand (kW)**	**Avg Incentive per**	**Total Incentive $**	**NTG**	**Incentive / kWh ($/kWh)**	**Net Total Energy Savings**	**Net Total Demand**	**Gross Lifetime Savings (kWh)**	**Net Lifetime Savings (kWh)**	**% of Total Bulbs**	**% of Total Lighting kWh**	**EUL**	**# Units**	**Total Gross Energy Savings (kWh) ***	**Total Gross Demand (kW)**	**Avg Incentive per measure**	**Total Incentive $**	**NTG**	**Incentive / kWh ($/kWh)**	**Net Total Energy Savings**	**Net Total Demand**	**Gross Lifetime Savings (kWh)**	**Net Lifetime Savings (kWh)**
Lighting																													
7 W Specialty LED	13.16	0.001	bulb	12	4,143	54,531	6.1	$ 2.00	$ 8,286.00	60%	$0.15	32,719	3.67	654,373	654,373	0.890%	0.441%	12	4,143	54,531	6.1	$ 2.00	$ 8,286.00	52%	$0.15	28,356	3.18	654,373	340,274
9 W Specialty LED	13.16	0.002	bulb	12	1,066	14,031	2.0	$ 2.00	$ 2,132.00	60%	$0.15	8,419	1.22	168,371	168,371	0.229%	0.114%	12	1,066	14,031	2.0	$ 2.00	$ 2,132.00	52%	$0.15	7,296	1.05	168,371	87,553
11 W Specialty LED	16.09	0.002	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.12	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
32 W Specialty LED	17.55	0.003	bulb	12	217	3,808	0.5	$ 2.00	$ 434.00	60%	$0.11	2,285	0.33	45,699	45,699	0.047%	0.031%	12	217	3,808	0.5	$ 2.00	$ 434.00	52%	$0.11	1,980	0.29	45,699	23,763
13 W Specialty LED	19.01	0.003	bulb	12	296	5,628	0.8	$ 2.00	$ 592.00	60%	$0.11	3,377	0.49	67,531	67,531	0.064%	0.046%	12	296	5,628	0.8	$ 2.00	$ 592.00	52%	$0.11	2,926	0.42	67,531	35,116
14 W Specialty LED	20.47	0.003	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.10	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
15 W Specialty LED	21.94	0.003	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.09	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
19 W Specialty LED	27.11	0.004	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.07	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
23 W Specialty LED	33.80	0.005	bulb	12	2,100	70,982	10.2	$ 2.00	$ 4,200.00	60%	$0.06	42,589	6.15	851,782	851,782	0.451%	0.574%	12	2,100	70,982	10.2	$ 2.00	$ 4,200.00	52%	$0.06	36,911	5.33	851,782	442,927
26 W Specialty LED	38.21	0.006	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.05	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
32 W Specialty LED	47.03	0.007	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.04	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
42 W Specialty LED	61.72	0.009	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.03	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
55 W Specialty LED	80.83	0.012	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.02	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
13 W Retrofit LED	19.01	0.003	bulb	12	4,206	79,965	11.5	$ 2.00	$ 8,412.00	60%	$0.11	47,979	6.93	959,579	959,579	0.903%	0.647%	12	4,206	79,965	11.5	$ 2.00	$ 8,412.00	52%	$0.11	41,582	6.00	959,579	498,981
33 W 3 Way LED	48.50	0.007	bulb	12	-	-	-	$ 2.00	$ -	60%	$0.04	0	0.00	0	0	0.000%	0.000%	12	-	-	-	$ 2.00	$ -	52%	$0.00	0	0.00	0	0
9.5 W A Lamp LED	24.48	0.004	bulb	12	30,000	734,544	106.1	$ 2.00	$ 60,000.00	60%	$0.08	440,726	63.68	8,814,524	8,814,524	6.441%	5.944%	12	20,000	489,696	70.8	$ 2.00	$ 40,000.00	52%	$0.08	254,642	36.80	5,876,350	3,055,702
11 W A Lamp LED	25.69	0.004	bulb	12	12,000	308,268	44.5	$ 2.00	$ 24,000.00	60%	$0.08	184,961	26.73	3,699,210	3,699,210	2.577%	2.494%	12	8,000	205,512	29.7	$ 2.00	$ 16,000.00	52%	$0.08	106,866	15.44	2,466,140	1,282,393
13.5 W A Lamp LED	23.68	0.003	bulb	12	20,000	473,640	68.4	$ 2.00	$ 40,000.00	60%	$0.08	284,184	41.06	5,683,682	5,683,682	4.294%	3.832%	12	15,000	355,230	51.3	$ 2.00	$ 30,000.00	52%	$0.08	184,720	26.69	4,262,762	2,216,636
18 W A Lamp LED	28.10	0.004	bulb	12	150,000	4,214,595	609.0	$ 2.00	$ 300,000.00	60%	$0.07	2,528,757	365.40	50,575,140	50,575,140	32.207%	34.103%	12	125,000	3,512,163	507.5	$ 2.00	$ 250,000.00	52%	$0.07	1,826,325	263.90	42,145,950	21,915,894
9.5 W BR 30 LED	24.48	0.004	bulb	12	2,169	53,108	7.7	$ 2.00	$ 4,338.00	60%	$0.08	31,865	4.60	637,290	637,290	0.466%	0.430%	12	2,169	53,108	7.7	$ 2.00	$ 4,338.00	52%	$0.08	27,616	3.99	637,290	331,391
15 W BR30 LED	21.94	0.003	bulb	12	3,448	75,639	10.9	$ 2.00	$ 6,896.00	60%	$0.09	45,383	6.55	907,667	907,667	0.740%	0.612%	12	3,448	75,639	10.9	$ 2.00	$ 6,896.00	52%	$0.09	39,332	5.68	907,667	471,987
18 W PAR 38 LED	28.10	0.004	bulb	12	3,222	90,530	13.1	$ 2.00	$ 6,444.00	60%	$0.07	54,318	7.85	1,086,354	1,086,354	0.692%	0.733%	12	3,222	90,530	13.1	$ 2.00	$ 6,444.00	52%	$0.07	47,075	6.80	1,086,354	564,904
7 W Specialty LED	13.16	0.001	bulb	15	4,143	54,531	6.1	$ 3.00	$ 12,429.00	60%	$0.23	32,719	3.67	817,967	817,967	0.890%	0.441%	15	4,143	54,531	6.1	$ 3.00	$ 12,429.00	52%	$0.23	28,356	3.18	817,967	425,343
9 W Specialty LED	13.16	0.002	bulb	15	1,066	14,031	2.0	$ 3.00	$ 3,198.00	60%	$0.23	8,419	1.22	210,464	210,464	0.229%	0.114%	15	1,066	14,031	2.0	$ 3.00	$ 3,198.00	52%	$0.23	7,296	1.05	210,464	109,441
11 W Specialty LED	16.09	0.002	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.19	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
12 W Specialty LED	17.55	0.003	bulb	15	217	3,808	0.5	$ 3.00	$ 651.00	60%	$0.17	2,285	0.33	57,124	57,124	0.047%	0.031%	15	217	3,808	0.5	$ 3.00	$ 651.00	52%	$0.17	1,980	0.29	57,124	29,704
13 W Specialty LED	19.01	0.003	bulb	15	296	5,628	0.8	$ 3.00	$ 888.00	60%	$0.16	3,377	0.49	84,414	84,414	0.064%	0.046%	15	296	5,628	0.8	$ 3.00	$ 888.00	52%	$0.16	2,926	0.42	84,414	43,895
14 W Specialty LED	20.47	0.003	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.15	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
15 W Specialty LED	21.94	0.003	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.14	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
19 W Specialty LED	27.11	0.004	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.11	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
23 W Specialty LED	33.80	0.005	bulb	15	2,100	70,982	10.2	$ 3.00	$ 6,300.00	60%	$0.09	42,589	6.15	1,064,728	1,064,728	0.451%	0.574%	15	2,100	70,982	10.2	$ 3.00	$ 6,300.00	52%	$0.09	36,911	5.33	1,064,728	553,659
26 W Specialty LED	38.21	0.006	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.08	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
32 W Specialty LED	47.03	0.007	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.06	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
42 W Specialty LED	61.72	0.009	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.05	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
55 W Specialty LED	80.83	0.012	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.04	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
13 W Retrofit LED	19.01	0.003	bulb	15	4,206	79,965	11.5	$ 3.00	$ 12,618.00	60%	$0.16	47,979	6.93	1,199,474	1,199,474	0.903%	0.647%	15	4,206	79,965	11.5	$ 3.00	$ 12,618.00	52%	$0.16	41,582	6.00	1,199,474	623,726
33 W 3 Way LED	48.50	0.007	bulb	15	-	-	-	$ 3.00	$ -	60%	$0.06	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0
9.5 W A Lamp LED	24.48	0.004	bulb	15	30,000	734,544	106.1	$ 3.00	$ 90,000.00	60%	$0.12	440,726	63.68	11,018,156	11,018,156	6.441%	5.944%	15	20,000	489,696	70.8	$ 3.00	$ 60,000.00	52%	$0.12	254,642	36.80	7,345,437	3,819,627
11 W A Lamp LED	25.69	0.004	bulb	15	12,000	308,268	44.5	$ 3.00	$ 36,000.00	60%	$0.12	184,961	26.73	4,624,013	4,624,013	2.577%	2.494%	15	8,000	205,512	29.7	$ 3.00	$ 24,000.00	52%	$0.12	106,866	15.44	3,082,675	1,602,991
13.5 W A Lamp LED	23.68	0.003	bulb	15	20,000	473,640	68.4	$ 3.00	$ 60,000.00	60%	$0.13	284,184	41.06	7,104,603	7,104,603	4.294%	3.832%	15	15,000	355,230	51.3	$ 3.00	$ 45,000.00	52%	$0.13	184,720	26.69	5,328,452	2,770,795
18 W A Lamp LED	28.10	0.004	bulb	15	150,000	4,214,595	609.0	$ 3.00	$ 450,000.00	60%	$0.11	2,528,757	365.40	63,218,925	63,218,925	32.207%	34.103%	15	125,000	3,512,163	507.5	$ 3.00	$ 375,000.00	52%	$0.11	1,826,325	263.90	52,682,438	27,394,868
9.5 W BR 30 LED	24.48	0.004	bulb	15	2,169	53,108	7.7	$ 3.00	$ 6,507.00	60%	$0.12	31,865	4.60	796,613	796,613	0.466%	0.430%	15	2,169	53,108	7.7	$ 3.00	$ 6,507.00	52%	$0.12	27,616	3.99	796,613	414,239
15 W BR30 LED	21.94	0.003	bulb	15	3,448	75,639	10.9	$ 3.00	$ 10,344.00	60%	$0.14	45,383	6.55	1,134,584	1,134,584	0.740%	0.612%	15	3,448	75,639	10.9	$ 3.00	$ 10,344.00	52%	$0.14	39,332	5.68	1,134,584	589,984
18 W PAR 38 LED	28.10	0.004	bulb	15	3,222	90,530	13.1	$ 3.00	$ 9,666.00	60%	$0.11	54,318	7.85	1,357,943	1,357,943	0.692%	0.733%	15	3,222	90,530	13.1	$ 3.00	$ 9,666.00	52%	$0.11	47,075	6.80	1,357,943	706,130
LED Night Light	13.60	0.003	bulb	15	-	-	-	$ 1.00	$ -	60%	$0.07	0	0.00	0	0	0.000%	0.000%	15	-	-	-	$ 1.00	$ -	52%	$0.00	0	0.00	0	0
Efficient Lighting				13.50	**465,734**	**12,358,538**	**1,782**		**$ 1,164,335.00**	60%	**$0.09**	**7,415,124**	**1,069**	**166,840,210**	**166,840,210**	**100%**	**100%**	13.50	**377,734**	**10,021,646**	**1,445**		**$ 944,335.00**		**$0.09**	**5,211,254**	**751**	**135,292,161**	**70,351,924**

					2017												2018											
Efficient Products	**kWh/unit**	**kW/unit**	**unit**	**EUL**	**# of Units**	**Total Gross Energy Savings (kWh)**	**Total Gross Demand Savings (kW)**	**Incentive ($)**	**Total Incentive ($)**	**Net to Gross**	**Incentive / kWh ($/kWh)**	**Net Total Energy Savings (kWh)**	**Net Total Demand (kW)**	**Gross Lifetime Savings (kWh)**	**Net Lifetime Savings (kWh)**	**Size Basis**	**% of Products Gross Annual Savings (kWh)**	**EUL**	**# of Units**	**Total Gross Energy Savings (kWh)**	**Total Gross Demand Savings (kW)**	**Incentive ($)**	**Total Incentive ($)**	**Net to Gross**	**Incentive / kWh ($/kWh)**	**Net Total Energy Savings (kWh)**	**Net Total Demand (kW)**	**Gross Lifetime Savings (kWh)**	**Net Lifetime Savings (kWh)**
Programmable/smart/wifi Tstat - Co	106.31	0.000	Unit	15	180	19,135	0	$100	$18,000	59%	$0.94	11,290	0.00	287024	169344	NA	2.47%	15	180	19,135	0	$70	$12,600	52%	$0.66	9,950	0.00	287,024	149,253
Programmable Tstat/smart/wifi - HP	528.49	0.000	Unit	15	94	49,678	0	$100	$9,400	59%	$0.19	29,310	0.00	745165	439647	NA	6.42%	15	94	49,678	0	$70	$6,580	52%	$0.13	25,832	0.00	745,165	387,486
Heat Pump Upgrade to => SEER 15 / HPF =>8.2	350.53	0.178	Unit	18	50	17,526	9	$200	$10,000	33%	$0.57	5,784	3.00	315473	104106	2.5 Ton	2.26%	18	50	17,526	9	$200	$10,000	52%	$0.57	9,114	5.00	315,473	164,046
Heat Pump Upgrade to => SEER 16 / HPF =>8.7	751.48	0.286	Unit	18	15	11,272	4	$300	$4,500	33%	$0.40	3,720	1.00	202898	66956	2.5 Ton	1.46%	18	15	11,272	4	$300	$4,500	52%	$0.40	5,862	2.00	202,898	105,507
Heat Pump Upgrade to => SEER 17 / HPF =>9.2	1065.23	0.329	Unit	18	30	31,957	10	$400	$12,000	33%	$0.38	10,546	3.00	575222	189823	2.5 Ton	4.13%	18	30	31,957	10	$400	$12,000	52%	$0.38	16,618	5.00	575,222	299,115
Heat Pump Upgrade to => SEER 18 / HPF =>10.1	1522.23	0.396	Unit	18	5	7,611	2	$500	$2,500	33%	$0.33	2,512	1.00	137001	45210	2.5 Ton	0.98%	18	5	7,611	2	$500	$2,500	52%	$0.33	3,958	1.00	137,001	71,241
Ductless HP Replacement of HP to 1	1186.40	0.161	Unit	18	8	9,491	1	$100	$800	33%	$0.08	3,132	0.00	170841	56377	2.75 Ton	1.23%	18	8	9,491	1	$100	$800	52%	$0.08	4,935	1.00	170,841	88,837
Ductless HP Replacement of HP to 19 SEER 9.5 HSPF (or greater	1259.63	0.231	Unit	18	12	15,116	3	$200	$2,400	33%	$0.16	4,988	1.00	272080	89786	2.75 Ton	1.95%	18	12	15,116	3	$200	$2,400	52%	$0.16	7,860	1.00	272,080	141,482
Ductless HP Replacement of HP to 21 SEER 10 HSPF or greater	1540.78	0.296	Unit	18	12	18,489	4	$250	$3,000	33%	$0.16	6,102	1.00	332809	109827	2.75 Ton	2.39%	18	12	18,489	4	$250	$3,000	52%	$0.16	9,614	2.00	332,809	173,061
Ductless HP Replacement of HP 23 SEER 10 HSPF or greater	1589.76	0.357	Unit	18	4	6,359	1	$300	$1,200	33%	$0.19	2,098	0.00	114463	37773	2.75 Ton	0.82%	18	4	6,359	1	$300	$1,200	52%	$0.19	3,307	1.00	114,463	59,521
Ductless HP Displacement of Elec Resistance to 17 SEER 9.5 HSPF	8066.66	0.161	Unit	18	4	32,267	1	$300	$1,200	33%	$0.04	10,648	0.00	580800	191664	2.75 Ton	4.17%	18	4	32,267	1	$300	$1,200	52%	$0.04	16,779	0.00	580,800	302,016
Ductless HP Displacement of Elec Resistance to 19 SEER 9.5 HSPF	8139.90	0.231	Unit	18	12	97,679	3	$400	$4,800	33%	$0.05	32,234	1.00	1758218	580212	2.75 Ton	12.61%	18	12	97,679	3	$400	$4,800	52%	$0.05	50,793	1.00	1,758,218	914,273
Ductless HP Displacement of Elec Resistance to 21 SEER 10 HSPF	8421.05	0.296	Unit	18	12	101,053	4	$500	$6,000	33%	$0.06	33,347	1.00	1818947	600252	2.75 Ton	13.05%	18	12	101,053	4	$500	$6,000	52%	$0.06	52,547	2.00	1,818,947	945,852
Ductless HP Displacement of Elec Resistance 23 SEER or greater 10 HSPF	8470.03	0.357	Unit	18	4	33,880	1	$550	$2,200	33%	$0.06	11,180	0.00	609842	201248	2.75 Ton	4.38%	18	4	33,880	1	$550	$2,200	52%	$0.06	17,618	1.00	609,842	317,118
Central Air Conditioner Upgrade 15 SEER 12 EER	135.00	0.250	Unit	18	100	13,500	25	$250	$25,000	61%	$1.85	8,235	15.00	243000	148230	2.75 Ton	1.74%	18	100	13,500	25	$250	$25,000	52%	$1.85	7,020	13.00	243,000	126,360
Central Air Conditioner Upgrade 16 SEER 13 EER	190.00	0.462	Unit	18	40	7,600	18	$300	$12,000	61%	$1.58	4,636	11.00	136800	83448	2.75 Ton	0.98%	18	40	7,600	18	$300	$12,000	52%	$1.58	3,952	10.00	136,800	71,136
Central Air Conditioner Upgrade 17 SEER 13 EER	239.00	0.462	Unit	18	35	8,365	16	$400	$14,000	61%	$1.67	5,103	10.00	150570	91848	2.75 Ton	1.08%	18	35	8,365	16	$400	$14,000	52%	$1.67	4,350	8.00	150,570	78,296
Efficient ECM fan motor	733.00	0.066	Unit	10	150	109,950	10	$150	$22,500	68%	$0.20	74,766	7.00	1099500	747660	NA	14.20%	10	150	109,950	10	$150	$22,500	52%	$0.20	57,174	5.00	1,099,500	571,740
HP Water Heater 10 to 50 MBH	428.96	0.058	Unit	10	0	0	0		$0	63%	$0.00	0	0.00	0	0	NA	0.00%	10	0	0	0		$0	52%	$0.00	0	0.00	0	0
HP Water Heater Energy Star EF >=2.0	1299.89	0.215	Unit	10	85	110,490	18	$350	$29,750	33%	$0.27	36,462	6.00	1104905	364619	NA	14.27%	10	85	110,490	18	$350	$29,750	52%	$0.27	57,455	10.00	1,104,905	574,550
HP Water Heater 100 to 300 MBH	3209.60	0.353	Unit	10	0	0	0		$0	59%	$0.00	0	0.00	0	0	NA	0.00%	10	0	0	0		$0	52%	$0.00	0	0.00	0	0
VSD Pool Pumps HP 1.0	781.72	1.162	Unit	10	5	3,909	6	$50	$250	50%	$0.06	1,954	3.00	39086	19543	1 HP	0.50%	10	5	3,909	6	$50	$250	52%	$0.06	2,032	3.00	39,086	20,325
VSD Pool Pumps HP 1.5	1172.57	1.742	Unit	10	8	9,381	14	$50	$400	50%	$0.04	4,690	7.00	93806	46903	1.5 HP	1.21%	10	8	9,381	14	$50	$400	52%	$0.04	4,878	7.00	93,806	48,779
VSD Pool Pumps HP 2	1563.43	2.323	Unit	10	10	15,634	23	$50	$500	50%	$0.03	7,817	12.00	156343	78172	2 HP	2.02%	10	10	15,634	23	$50	$500	52%	$0.03	8,130	12.00	156,343	81,298
ENERGY STAR Ceiling Fan	107.61	0.020	Unit	10	25	2,690	0	$25	$625	51%	$0.23	1,372	0.00	26903	13720	NA	0.35%	10	25	2,690	0	$25	$625	52%	$0.23	1,399	0.00	26,903	13,989
ENERGY STAR Ceiling Fan Instant Re	107.61	0.020	Unit	10	0	0	0	$25	$0	51%	$0.23	0	0.00	0	0	NA	0.00%	10	0	0	0	$25	$0	52%	$0.00	0	0.00	0	0

ENERGY STAR Dehumidifier	206.61	0.047	Unit	10	200	41,322	9	$25	$5,000	53%	$0.12	21,901	5.00	413220	219007	NA	5.34%		10	200	41,322	9	$25	$5,000	52%	$0.12	21,487	5.00	413,220	214,874
ENERGY STAR Dehumidifier Instant	206.61	0.047	Unit	10	0	0	0	$25	$0	53%	$0.12	0	0.00	0	0	NA	0.00%		10	0	0	0	$25	$0	52%	$0.00	0	0.00	0	0
																NA															
Efficient Products				14.70	1,100	774,354	183		$188,025	43%	$0.24	333,827	88	11,384,916	4,695,375				14.70	1,100	774,354	183		$179,805		$0.23	402,664	95	11,384,916	5,920,155
Total Home Energy Products Program				**13.57**	**466,834**	**13,132,892**			**$ 1,352,360.00**	**59%**		**7,748,951**	**1,157**	**178,225,126**	**171,535,585**				**13.59**		**10,796,000**	**1,628**		**$1,124,140**		**0**	**5,613,918**	**846**	**146,677,077**	**76,272,079**

Measure Type	NTGR	Ex post Annual Savin (kWh)	Ex post nual Savir (kW)	Net Ex Post Annu (kWh)	Net Ex Post Annual Savings (kW)
Air Conditioner	61%	4,818	7.68	2,919	4.61
Ceiling Fan	51%	540	0.09	273	0.04
Dehumidifier	53%	100,110	22.56	53,334	11.99
Ductless Heat Pump	33%	98,837	7.29	32,625	2.41
ECM Retrofit	68%	259,482	23.26	176,655	15.84
Heat Pump Water Heater	63%	22,050	3.01	13,902	1.9
Heat Pump	33%	35,483	15.42	11,745	5.09
Programmable Thermostat	59%	52,297	0	31,087	0
Variable Speed Pool Pump	50%	17,979	26.32	8,997	13.16
Total	56%	591,598	105.63	331,920	55.07

Measure Type	NTGR	Ex post Annual Savings (kWh)	Ex post Annual Savings (kW)	Net Ex Post Annu (kWh)	Net Ex Post Annual Savings (kW)
CFLs	51%	8,753,363	1,039.97	4,464,215	530.38
LEDs	60%	2,054,726	244.12	1,232,836	146.47
Total	53%	10,808,089	1,284.08	5,697,051	676.85

Measure Type	Ex ante Annual Savings (kWh)	Ex post nnual Savings (kWh)	lization Rate
Air Conditioner	6,295	4,818	77%
Ceiling Fan	538	540	100%
Dehumidifier	103,400	100,110	97%
Ductless Heat Pump	135,732	98,837	73%
ECM Retrofit	259,482	259,482	100%
Heat Pump Water Heater	27,282	22,050	81%
Heat Pump	43,665	35,483	81%
Programmable Thermostat	60,340	52,297	87%
Variable Speed Pool Pump	17,979	17,979	100%
Total	654,713	591,598	90%

Measure Type	*Ex ante Annual Savings (kWh)*	*Ex post Annual Savings (kWh)*	*Realization Rate*
CFLs	8,558,507	8,753,363	102%
LEDs	2,518,924	2,054,726	82%
Total	11,077,430	10,808,089	98%

		2019 Program														2017			2018			2019		
% of Total Bulbs	% of Total Lighting kWh	EUL	# Units	Total Gross Energy Savings (kWh) *	Total Gross Demand (kW)	Avg Incentive per measure	Total Incentive $	NTG	Incentive / kWh ($/kWh)	Net Total Energy Savings	Net Total Demand	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	% of Total Bulbs	% of Total Lighting kWh	Incremental Cost from	Measure Cost ($)	IMC	Participant Cost ($)	Measure Cost ($)	IMC	Participant Cost ($)	Measure Cost ($)	IMC	Participant Cost ($)
1.097%	0.544%	12	4,143	54,531	6.1	$ 1.50	$ 6,214.50	52%	$0.11	28,356	3.18	654,373	28,356	1.346%	0.671%	$ 21.00	$8.00	$4.00	$8.00	$8.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.282%	0.140%	12	1,066	14,031	2.0	$ 1.50	$ 1,599.00	52%	$0.11	7,296	1.05	168,371	7,296	0.346%	0.173%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.057%	0.038%	12	217	3,808	0.5	$ 1.50	$ 325.50	52%	$0.09	1,980	0.29	45,699	1,980	0.071%	0.047%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.078%	0.056%	12	296	5,628	0.8	$ 1.50	$ 444.00	52%	$0.08	2,926	0.42	67,531	2,926	0.096%	0.069%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.556%	0.708%	12	2,100	70,982	10.2	$ 1.50	$ 3,150.00	52%	$0.04	36,911	5.33	851,782	36,911	0.682%	0.873%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 28.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 36.00	$8.00	$4.00	$8.00	$4.00	$4.00	$8.00	$6.00	$2.00	$6.00
1.113%	0.798%	12	4,206	79,965	11.5	$ 1.50	$ 6,309.00	52%	$0.08	41,582	6.00	959,579	41,582	1.367%	0.984%	$ 21.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
0.000%	0.000%	12	-	-	-	$ 1.50	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
5.295%	4.886%	12	10,000	244,848	35.4	$ 1.50	$ 15,000.00	52%	$0.06	127,321	18.40	2,938,175	127,321	3.250%	3.013%	$ 7.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
2.118%	2.051%	12	8,000	205,512	29.7	$ 1.50	$ 12,000.00	52%	$0.06	106,866	15.44	2,466,140	106,866	2.600%	2.529%	$ 7.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
3.971%	3.545%	12	15,000	355,230	51.3	$ 1.50	$ 22,500.00	52%	$0.06	184,720	26.69	4,262,762	184,720	4.874%	4.371%	$ 7.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
33.092%	35.046%	12	100,000	2,809,730	406.0	$ 1.50	$ 150,000.00	52%	$0.05	1,461,060	211.12	33,716,760	1,461,060	32.496%	34.572%	$ 7.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
0.574%	0.530%	12	2,169	53,108	7.7	$ 1.50	$ 3,253.50	52%	$0.06	27,616	3.99	637,290	27,616	0.705%	0.653%	$ 40.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
0.913%	0.755%	12	3,448	75,639	10.9	$ 1.50	$ 5,172.00	52%	$0.07	39,332	5.68	907,667	39,332	1.120%	0.931%	$ 40.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
0.853%	0.903%	12	3,222	90,530	13.1	$ 1.50	$ 4,833.00	52%	$0.05	47,075	6.80	1,086,354	47,075	1.047%	1.114%	$ 40.00	$4.00	$3.00	$4.00	$4.00	$3.00	$4.00	$3.00	$2.00	$3.00
1.097%	0.544%	15	4,143	54,531	6.1	$ 3.00	$ 12,429.00	52%	$0.23	28,356	3.18	817,967	28,356	1.346%	0.671%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.282%	0.140%	15	1,066	14,031	2.0	$ 3.00	$ 3,198.00	52%	$0.23	7,296	1.05	210,464	7,296	0.346%	0.173%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.057%	0.038%	15	217	3,808	0.5	$ 3.00	$ 651.00	52%	$0.17	1,980	0.29	57,124	1,980	0.071%	0.047%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.078%	0.056%	15	296	5,628	0.8	$ 3.00	$ 888.00	52%	$0.16	2,926	0.42	84,414	2,926	0.096%	0.069%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.556%	0.708%	15	2,100	70,982	10.2	$ 3.00	$ 6,300.00	52%	$0.09	36,911	5.33	1,064,728	36,911	0.682%	0.873%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 28.00	$10.00	$6.00	$10.00	$10.00	$6.00	$10.00	$6.00	$2.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 36.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
1.113%	0.798%	15	4,206	79,965	11.5	$ 3.00	$ 12,618.00	52%	$0.16	41,582	6.00	1,199,474	41,582	1.367%	0.984%	$ 21.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
0.000%	0.000%	15	-	-	-	$ 3.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 21.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
5.295%	4.886%	15	10,000	244,848	35.4	$ 3.00	$ 30,000.00	52%	$0.12	127,321	18.40	3,672,719	127,321	3.250%	3.013%	$ 7.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
2.118%	2.051%	15	8,000	205,512	29.7	$ 3.00	$ 24,000.00	52%	$0.12	106,866	15.44	3,082,675	106,866	2.600%	2.529%	$ 7.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
3.971%	3.545%	15	15,000	355,230	51.3	$ 3.00	$ 45,000.00	52%	$0.13	184,720	26.69	5,328,452	184,720	4.874%	4.371%	$ 7.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
33.092%	35.046%	15	100,000	2,809,730	406.0	$ 3.00	$ 300,000.00	52%	$0.11	1,461,060	211.12	42,145,950	1,461,060	32.496%	34.572%	$ 7.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
0.574%	0.530%	15	2,169	53,108	7.7	$ 3.00	$ 6,507.00	52%	$0.12	27,616	3.99	796,613	27,616	0.705%	0.653%	$ 40.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
0.913%	0.755%	15	3,448	75,639	10.9	$ 3.00	$ 10,344.00	52%	$0.14	39,332	5.68	1,134,584	39,332	1.120%	0.931%	$ 40.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
0.853%	0.903%	15	3,222	90,530	13.1	$ 3.00	$ 9,666.00	52%	$0.11	47,075	6.80	1,357,943	47,075	1.047%	1.114%	$ 40.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00	$6.00	$5.00	$6.00
0.000%	0.000%	15	-	-	-	$ 1.00	$ -	52%	$0.00	0	0.00	0	0	0.000%	0.000%	$ 5.00	$3.00	$2.00	$3.00	$3.00	$2.00	$3.00	$3.00	$2.00	$3.00
100%	**100%**	13.50	**307,734**	**8,127,084**	**1,171**		**$ 692,401.50**		**$0.09**	**4,226,082**	**609**	**109,715,590**	**4,226,082**	**100%**	**100%**		$ 2,391,246	$ 1,878,580	$ 2,391,246	$ 1,936,530	$ 1,526,580	$ 1,951,246	$ 1,408,269	$ 1,053,603	$ 1,408,269

		2019													2017			2018			2019		
Size Basis	% of Products Gross Annual Savings (kWh)	EUL	# of Units	Total Gross Energy Savings (kWh)	Total Gross Demand Savings (kW)	Incentive ($)	Total Incentive ($)	Net to Gross	Incentive / kWh ($/kWh)	Net Total Energy Savings (kWh)	Net Total Demand (kW)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	Size Basis	% of Products Gross Annual Savings (kWh)	Measure Cost ($)	IMC	Participant Cost ($)	Measure Cost ($)	IMC	Participant Cost ($)	Measure Cost ($)	IMC	Participant Cost ($)
NA	2.47%	15	180	19,135	0	$70	$12,600	52%	$0.66	9,950	0.00	287,024	149,253	NA	2.47%	$35	$20	$35	$35	$20	$35	$35	$20	$35
NA	6.42%	15	94	49,678	0	$70	$6,580	52%	$0.13	25,832	0.00	745,165	387,486	NA	6.42%	$35	$20	$35	$35	$20	$35	$35	$20	$35
2.5 Ton	2.26%	18	50	17,526	9	$200	$10,000	52%	$0.57	9,114	5.00	315,473	164,046	2.5 Ton	2.26%	$1,992	$762	$1,992	$1,992	$762	$1,992	$1,992	$762	$1,992
2.5 Ton	1.46%	18	15	11,272	4	$300	$4,500	52%	$0.40	5,862	2.00	202,898	105,507	2.5 Ton	1.46%	$2,373	$1,142	$2,373	$2,373	$1,142	$2,373	$2,373	$1,142	$2,373
2.5 Ton	4.13%	18	30	31,957	10	$400	$12,000	52%	$0.38	16,618	5.00	575,222	299,115	2.5 Ton	4.13%	$2,754	$1,523	$2,754	$2,754	$1,523	$2,754	$2,754	$1,523	$2,754
2.5 Ton	0.98%	18	5	7,611	2	$500	$2,500	52%	$0.33	3,958	1.00	137,001	71,241	2.5 Ton	0.98%	$3,134	$1,904	$3,134	$3,134	$1,904	$3,134	$3,134	$1,904	$3,134
2.75 Ton	1.23%	18	8	9,491	1	$100	$800	52%	$0.08	4,935	1.00	170,841	88,837	2.75 Ton	1.23%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	1.95%	18	12	15,116	3	$200	$2,400	52%	$0.16	7,860	1.00	272,080	141,482	2.75 Ton	1.95%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	2.39%	18	12	18,489	4	$250	$3,000	52%	$0.16	9,614	2.00	332,809	173,061	2.75 Ton	2.39%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	0.82%	18	4	6,359	1	$300	$1,200	52%	$0.19	3,307	1.00	114,463	59,521	2.75 Ton	0.82%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	4.17%	18	4	32,267	1	$300	$1,200	52%	$0.04	16,779	0.00	580,800	302,016	2.75 Ton	4.17%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	12.61%	18	12	97,679	3	$400	$4,800	52%	$0.05	50,793	1.00	1,758,218	914,273	2.75 Ton	12.61%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	13.05%	18	12	101,053	4	$500	$6,000	52%	$0.06	52,547	2.00	1,818,947	945,852	2.75 Ton	13.05%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	4.38%	18	4	33,880	1	$550	$2,200	52%	$0.06	17,618	1.00	609,842	317,118	2.75 Ton	4.38%	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582	$3,582	$1,760	$3,582
2.75 Ton	1.74%	18	100	13,500	25	$250	$25,000	52%	$1.85	7,020	13.00	243,000	126,360	2.75 Ton	1.74%	$1,636	$655	$1,636	$1,636	$655	$1,636	$1,636	$655	$1,636
2.75 Ton	0.98%	18	40	7,600	18	$300	$12,000	52%	$1.58	3,952	10.00	136,800	71,136	2.75 Ton	0.98%	$2,454	$982	$2,454	$2,454	$982	$2,454	$2,454	$982	$2,454
2.75 Ton	1.08%	18	35	8,365	16	$400	$14,000	52%	$1.67	4,350	8.00	150,570	78,296	2.75 Ton	1.08%	$3,273	$1,309	$3,273	$3,273	$1,309	$3,273	$3,273	$1,309	$3,273
NA	14.20%	10	150	109,950	10	$150	$22,500	52%	$0.20	57,174	5.00	1,099,500	571,740	NA	14.20%	380	280	$380	$380	$280	$380	$380	$280	$380
NA	0.00%	10	0	0	0		$0	52%	$0.00	0	0.00	0	0	NA	0.00%	$1,889	$1,489	$1,889	$1,889	$1,489	$1,889	$1,889	$1,489	$1,889
NA	14.27%	10	85	110,490	18	$350	$29,750	52%	$0.27	57,455	10.00	1,104,905	574,550	NA	14.27%	$1,989	$1,589	$1,989	$1,989	$1,589	$1,989	$1,989	$1,589	$1,989
NA	0.00%	10	0	0	0		$0	52%	$0.00	0	0.00	0	0	NA	0.00%	$2,089	$1,689	$2,089	$2,089	$1,689	$2,089	$2,089	$1,689	$2,089
1 HP	0.50%	10	5	3,909	6	$50	$250	52%	$0.06	2,032	3.00	39,086	20,325	1 HP	0.50%	$1,150	$550	$1,150	$1,150	$550	$1,150	$1,150	$550	$1,150
1.5 HP	1.21%	10	8	9,381	14	$50	$400	52%	$0.04	4,878	7.00	93,806	48,779	1.5 HP	1.21%	$1,179	$579	$1,179	$1,179	$579	$1,179	$1,179	$579	$1,179
2 HP	2.02%	10	10	15,634	23	$50	$500	52%	$0.03	8,130	12.00	156,343	81,298	2 HP	2.02%	$1,200	$600	$1,200	$1,200	$600	$1,200	$1,200	$600	$1,200
NA	0.35%	10	25	2,690	0	$25	$625	52%	$0.23	1,399	0.00	26,903	13,989	NA	0.35%	$140	$40	$140	$140	$40	$140	$140	$40	$140
NA	0.00%	10	0	0	0	$25	$0	52%	$0.00	0	0.00	0	0	NA	0.00%	$140	$40	$140	$140	$40	$140	$140	$40	$140

NA	5.34%		10	200	41,322	9	$25	$5,000	52%	$0.12	21,487	5.00	413,220	214,874	NA	5.34%
NA	0.00%		10	0	0	0	$25	$0	52%	$0.00	0	0.00	0	0	NA	0.00%
NA															NA	
			14.70	1,100	774,354	183		$179,805		$0.23	402,664	95	11,384,916	5,920,155		
			13.60	**308,834**	**8,901,438**	**1,354**		**$872,207**		**0**	**4,628,746**	**704**	121,100,506	10,146,237		

$150	$50	$150		$150	$50	$150		$150	$50	$150
$150	$50	$150		$150	$50	$150		$150	$50	$150
$1,149,716	$587,570	$1,149,716		$1,149,716	$587,570	$1,149,716		$1,149,716	$587,570	$1,149,716
$3,540,962	$2,466,150	$3,540,962		$3,086,246	$2,114,150	$3,100,962		$2,557,985	$1,641,173	$2,557,985

Program	Measure Name	Unit	Net-to-Gross	Measure Life (yrs)	Per Unit Energy Savings (kWh)	Per Unit Demand Savings (kW)	Penetration (No. of Units)	Incentive ($/unit)	Gross Annual Savings (kWh)	Gross Demand Savings (kw)
Appliance Recycling	Refrigerators	Unit	51%	8	1,077	0.126716	2,640	40	2,843,280	335
	Freezers	Unit	69%	8	880	0.11338	574	40	505,120	65
	Total			8			3,214		3,348,400	400

2014

Refrigerators	3,047
Freezers	802

2015

Appliance Type	*PY6 Program Goals (kWh)*	*Ex Ante Net kWh Savings*	*Net-to-Gross Ratio*	*Per Unit Net Annual Savings (kWh)*	*Net Annual Savings (kWh)*	*Net Peak Demand Savings (kW)*
Refrigerators			51%	548	1,447,395	170.27
Freezers	2,209,147	2,293,304	69%	610	350,237	45.13
Total			54%	-	1,797,633	215.41

ppliance Typ	*PY6 Program Goals (kWh)*
Refrigerators	
Freezers	3,068,260
Total	

2017

Net Annual Savings (kWh)	Net Demand Savings (kw)	Incentives ($)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	Net Measure/Incremental Cost ($)	Measure Cost ($/unit)	Incentive/kWh	Penetration (No. of Units)	Incentive ($/unit)	Gross Annual Savings (kWh)	Gross Demand Savings (kw)
1,450,073	171	105,600	22,746,240	11,600,582	0	0	3.7%	2,640	40	2,843,280	334.53
348,533	45	22,960	4,040,960	2,788,262	0	0	4.5%	574	40	505,120	65.08
1,798,606	216	128,560	26,787,200	14,388,845	0	0		3,214		3,348,400	399.61

Verified Appliances Recycled	*Per-Unit Annual Savings (kWh)*	*Annual Savings (kWh)*	*Peak Demand Savings (kW)*	
2,640	1,077	2,843,644	334.53	0.126715909
574	880	504,989	65.08	0.113379791
3,214	-	3,348,633	399.61	

2018													
Net Annual Savings (kWh)	Net Demand Savings (kw)	Incentives ($)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	Net Measure/Incremental Cost ($)	Measure Cost ($/unit)	Incentive/kWh	Penetration (No. of Units)	Incentive ($/unit)	Gross Annual Savings (kWh)	Gross Demand Savings (kw)	Net Annual Savings (kWh)
1,450,073	170.6103	105,600	22,746,240	10,771	0	0	3.7%	2,640	40	2,843,280	334.53	1,450,073
348,533	44.9052	22,960	4,040,960	3,168	0	0	4.5%	574	40	505,120	65.08	348,533
1,798,606	215.5155	128,560	26,787,200	13,940	0	0		3,214		3,348,400	399.61	1,798,606

2019						
Net Demand Savings (kw)	Incentives ($)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	Net Measure/Incremental Cost ($)	Measure Cost ($/unit)	Incentive/kWh
170.6103	105,600	22,746,240	11,600,582	0	0	3.7%
44.9052	22,960	4,040,960	2,788,262	0	0	4.5%
215.5155	128,560	26,787,200	14,388,845	0	0	

	Measure Group	Measure Name	Unit
Residential New Construction	Gas Heat, Air Conditioned Home	Silver Star HERS 75 - Gas & Electric	per house
Residential New Construction	Gas Heat, Air Conditioned Home	Gold Star HERS 67- Gas & Electric	per house
Residential New Construction	Gas Heat, Air Conditioned Home	Platinum Star- EPAct Tax Credit- Gas & Electric	per house
Residential New Construction	All Electric Home	Silver Star HERS 75 - All Electric	per house
Residential New Construction	All Electric Home	Gold Star HERS 67- All Electric	per house
Residential New Construction	All Electric Home	Platinum Star- EPAct Tax Credit- All Electric	per house
		Total	

		% of Total	2016 Forecast
2014 Total	204		360
Silver Star HERS 75 - Gas & Electric	71	35%	114.2200925
Gold Star HERS 67- Gas & Electric	112	55%	216.1269002
Platinum Star- EPAct Tax Credit- Gas & Electric	0	0%	2.02247191
Silver Star HERS 75 - All Electric	20	10%	25.73694646
Gold Star HERS 67- All Electric	1	0%	1.893588896
Platinum Star- EPAct Tax Credit- All Electric	0	0%	0
2015 total YTD EO July:			
silver star gas/elec	51	29%	
Gold Star - Gas/Elec	116	65%	
platinum - gas/elec	2	1%	
silver star elect	8	4%	
gold star - electric	1	1%	
Platinum Star- EPAct Tax Credit- All Electric	0	0%	
178 as of Monday 8/3	178		

Home Type	*PY6 Program Goals (kWh)*	*Number of Homes*	*Ex Ante kWh Savings per Home*
Silver- Electric	731,022	11	4,035
Silver- Gas & Electric		110	1,519
Gold – Electric		1	7,154
Gold – Gas & Electric		320	1,551
Platinum – Gas & Electric		3	1,551
Total		445	-

Ex Ante Peak kW Savings	*Audited Peak kW Savings*	*Verified Peak kW Savings*	*Ex Post Peak kW Savings*
534.15	534.15	534.15	212.9

Home Tier	*Fuel Type*	*kWh Savings in Database*	*Average kW Savings in Database*
Silver	Electric Only	4,035	0.95
Silver	Gas and Electric	1,519	0.9
Gold	Electric Only	7,154	1.45
Gold	Gas and Electric	1,551	1.31
Platinum	Gas and Electric	1,551	1.35

Program	*Ex Ante Total kWh Savings*	*Ex Post Total kWh Savings*	*Net-to-Gross Ratio*
New Construction	719,602	740,648	77%

	Savings (kWh)		*Incentive*
Measure	*2015*	*2016*	*Unchanged*
Silver G&E	1,519	1,439	$360
Silver All Elec	4,035	4,626	$600

Gold G&E	1,551	1,620	$540
Gold All Elec	7,154	7,958	$900
Platinum G&E	1,551	1,551	$600
Platinum All Elec	7,154	8,012	$1,000

				2017							
Net-to-Gross	Measure Life (yrs)	Per Unit Energy Savings (kWh)	Per Unit Demand Savings (kW)	Penetration (No. of Units)	Incentive ($/unit)	Measure Cost ($/unit)	Incentive/kWh	Gross Annual Savings (kWh)	Net Annual Savings (kWh)	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)
77.0%	25.0	1,653.70	0.39	266	$ 396.00	$ 681.60	$ 0.237	439,884	338,711	10,997,105	8,467,771
77.0%	25.0	1,860.70	0.57	138	$ 594.00	$ 1,212.00	$ 0.348	256,684	197,646	6,417,089	4,941,159
77.0%	25.0	1,890.60	0.59	36	$ 660.00	$ 1,383.60	$ 0.387	67,305	51,825	1,682,634	1,295,628
77.0%	25.0	5,400.40	0.42	5	$660.00	$3,658.80	$ 0.149	27,002	20,792	675,050	519,789
77.0%	25.0	9,333.40	0.64	1	$990.00	$3,982.80	$ 0.126	9,333	7,187	233,335	179,668
77.0%	25.0	8,012.48	0.55	1	$1,100.00	$4,246.80	$ 0.140	8,012	6,170	200,312	154,240
	25			447				808,221	622,330	20,205,525	15,558,254

Ex Ante Total kWh Savings	*Ex Post kWh Savings per Home*	*Ex Post Total kWh Savings*	*Realization Rate*
44,385	4,696	51,660	116%
167,090	1,438	158,180	95%
7,154	8,116	8,116	113%
496,320	1,618	517,760	104%
4,653	1,644	4,932	106%
719,602	-	740,570	103%

Realization Rate	
40%	0.3985

Gross Peak kW			Verified Peak kW	Per Unit Ver Peak kW
10.45			4.16	0.378575
99			39.45	0.35865
1.45			0.58	0.577825
419.2			167.05	0.522035
4.05			1.61	0.537975
0			0.00	0
534.15	0	0	212.86	2.38

Net Ex Post Total kWh Savings	*Ex Post Total kW Savings*	*Net Ex Post Total kW Savings*
570,299	212.9	163.93

Gross Demand Savings (kw)	Net Demand Savings (kw)	Incentives ($)	Measure/Incremental Cost ($)
104.94	80.80	$ 105,336	$ 181,306
79.22	61.00	$ 81,942	$ 167,195
21.07	16.22	$ 23,496	$ 49,256
2.08	1.60	$ 3,300	$ 18,294
0.64	0.49	$ 990	$ 3,983
0.55	0.43	$ 1,100	$ 4,247
208	161	216,164	424,281

2018

Penetration (No. of Units)	Incentive ($/unit)	Measure Cost ($/unit)	Incentive/kWh	Gross Annual Savings (kWh)	Net Annual Savings (kWh)	Gross Lifetime Savings (kWh)
110	$ 396.00	$ 681.60	$ 0.237	181,907	140,068	4,547,675
320	$ 594.00	$ 1,212.00	$ 0.348	595,424	458,476	14,885,600
3	$ 660.00	$ 1,383.60	$ 0.387	5,672	4,367	141,795
11	$660.00	$3,658.80	$ 0.149	59,404	45,741	1,485,110
1	$990.00	$3,982.80	$ 0.126	9,333	7,187	233,335
-	$1,100.00	$4,246.80	$ 0.140	0	0	0
445				851,741	655,840	21,293,515

% of Total	2017	2018	2019
2.5%	12	12	12
24.7%	124	124	124
0.2%	1	1	1
71.9%	360	360	360
0.7%	3	3	3
100.0%	500	500	500

2019

Net Lifetime Savings (kWh)	Gross Demand Savings (kw)	Net Demand Savings (kw)	Incentives ($)	Net Measure/Incremental Cost ($)	Penetration (No. of Units)	Incentive ($/unit)	Measure Cost ($/unit)	Incentive/kWh	Gross Annual Savings (kWh)	Net Annual Savings (kWh)	Gross Lifetime Savings (kWh)
3,501,710	43.40	33.42	$ 43,560	$ 74,976	110	$ 396.00	$ 681.60	$ 0.237	181,907	140,068	4,547,675
11,461,912	183.76	141.49	$ 190,080	$ 387,840	320	$ 594.00	$ 1,212.00	$ 0.348	595,424	458,476	14,885,600
109,182	1.78	1.37	$ 1,980	$ 4,151	3	$ 660.00	$ 1,383.60	$ 0.387	5,672	4,367	141,795
1,143,535	4.58	3.53	$ 7,260	$ 40,247	11	$660.00	$3,658.80	$ 0.149	59,404	45,741	1,485,110
179,668	0.64	0.49	$ 990	$ 3,983	1	$990.00	$3,982.80	$ 0.126	9,333	7,187	233,335
0	0.00	0.00	$ -	$ -	-	$1,100.00	$4,246.80	$ 0.140	0	0	0
16,396,007	234	180	243,870	511,196	445				851,741	655,840	21,293,515

Net Lifetime Savings (kWh)	Gross Demand Savings (kw)	Net Demand Savings (kw)	Incentives ($)	Net Measure/Incremental Cost ($)
3,501,710	43.40	33.42	$ 43,560	$ 74,976
11,461,912	183.76	141.49	$ 190,080	$ 387,840
109,182	1.78	1.37	$ 1,980	$ 4,151
1,143,535	4.58	3.53	$ 7,260	$ 40,247
179,668	0.64	0.49	$ 990	$ 3,983
0	0.00	0.00	$ -	$ -
16,396,007	234	180	243,870	511,196

School Education Program	kWh/unit	kW/unit	unit	EUL	NTG	# Units	Total Gross Energy Savings (kWh) *	Total Gross Demand (kW)
School Take Home Kits	289	0.08	Kit	10.625	69.0%	11,000	3,179,000	880

Savings adjusted w/2015 EM&V Expost Res

Kit Detail						Revised w/LED $ & EM&V Expost		
Measures	Quantity	$ Per Measure	Total	kWh p/ Individual Measure	KWh	$ Per Measure	Total	KWh p/ Individual Measure
23w CFL	0	1.55	$0.00	22.72	45.44	1.55	$0.00	37.5
13w CFL	0	1.09	$0.00	17.47	0.00	1.09	$0.00	34
9w LED	3	7.57	$22.71	24.62	73.86	6.00	$18.00	21
LED Night Light	1	0.79	$0.79	12.96	12.96	0.79	$0.79	13.00
Showerhead	2	2.44	$4.88	185.97	371.94	2.44	$4.88	97.00
Kitchen Aerator	1	0.94	$0.94	15.81	15.81	0.94	$0.94	8
Filter Tone	1	0.46	$0.46	16.80	16.80	0.46	$0.46	11
Flow Rate bag	0							
Dig Thermometer	0							
Install Instructions			$1.61				$1.61	
Quick Start			$1.33				$1.33	
Curriculum - Student Material			$1.30				$1.30	
Currilum - Teacher Material			$1.79				$1.79	
Kit Box			$1.95				$1.95	
Labor & Handling			$2.25				$2.25	
Shipping			$2.00				$2.00	
Total Measure Cost Per Kit			$42.01		536.81		$37.30	

Projected Program kWh Savings	**289** kWh per kit	5,443	1,573,027	**289**	**4,000**

Program Cost for 5,443 Kits	$ per Kit	$ per Category - Original	$ per Kit Revised Eff 7.1.15	$ per Category - 1st Expan	$ per Category - 2nd Expan	$ per Category - 3rd Expan
Incentive Cost	$26.55	$144,511.65	$33.05	$61,065.00	$318.60	$132,200.00
Office/Admin	$6.89	$37,502.27	$6.89	$15,847.00	$82.68	$27,560.00
Outreach	$5.79	$31,514.97	$5.79	$13,317.00	$69.48	$23,160.00
Marketing	$3.41	$18,560.63	$3.41	$7,843.00	$40.92	$13,640.00
Teacher Stipend	$1.16	$6,313.88	$1.16	$2,668.00	$13.92	$4,640.00
Kit Shipping to School	$2.00	$10,886.00	$2.00	$4,600.00	$24.00	$8,000.00
Kit Labor & Handling	$2.25	$12,246.75	$2.25	$5,175.00	$27.00	$9,000.00
Program Delivery Cost	$48.05	$261,536.15	$54.55	$110,515.00	$576.60	$218,200.00

delivery per kit	$21.50	$21.50
per kit measures	$37.76	$33.05
Total per kit	$59.26	$54.55
Use Tax on Kit Measures	$19,304	600050

2015 Results		
Measure Type	*Ex Post Gross kWh Savings Per Kit*	*Ex Post Gross kW Savings Per Kit*
23 Watt CFL (2)	75	0.01
13 Watt CFL (2)	68	0.01
LED Nightlight (1)	13	0

Measure	*et-to-Gross Ratio*
23 Watt CFL	58%
13 Watt CFL	58%
LED Nightlight	79%
Low Flow Showerhead	75%

Low Flow Showerhead (2)	194	0.03
Low Flow Kitchen Aerator (1)	8	0
Filter Tone Alarm (1)	11	0.02
9 Watt LED (1)	21	0
Total	389	0.07

Low Flow Kitchen Aerator	81%
Filter Tone Alarm	87%
9 Watt LED	71%
Overall	69%

2017									
Per Unit Cost ($)	Total Cost $	Cost / kWh ($/kWh)	Net Total Energy Savings	Net Total Demand	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	# Units	Total Gross Energy Savings (kWh) *	Total Gross Demand (kW)
33.05	363,550	0.11	2,193,510	607	33,776,875	23,306,044	11,000	3,179,000	880

ults

kWh

Total Measure KWh	EUL	total kW		
0	5	0	4%	CFL Filter Tone
0	5	0		
63	15	0	26%	LEDs
13.00	15.00	0		
194.00	5.00	0.06	70%	SH Aerator
8	10	0		
11	5	0.02	100%	
289		0.08		

1,156,000

Rev Prog Budget
$590,827.75

2018							2019					
Per Unit Cost ($)	Total Cost $	Cost / kWh ($/kWh)	Net Total Energy Savings	Net Total Demand	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)	# Units	Total Gross Energy Savings (kWh) *	Total Gross Demand (kW)	Per Unit Cost ($)	Total Cost $	Cost / kWh ($/kWh)
33.05	363,550	0.11	2,193,510	607	33,776,875	23,306,044	11,000	3,179,000	880	33.05	363,550	0.11

Net Total Energy Savings	Net Total Demand	Gross Lifetime Savings (kWh)	Net Lifetime Savings (kWh)
2,193,510	607	33,776,875	23,306,044

				1	2	3	4
Year	2014	2015	2016	2017	2018	2019	2020
On-Peak ($/MWh)	37.94	48.38	35.34	41.85	44.12	46.59	48.45
Off-Peak ($/MWh)	24.50	28.52	26.65	31.47	32.94	34.86	36.83
All Hours ($/MWh)	30.95	38.05	30.82	36.46	38.31	40.49	42.41
Inflation	1.56%	1.44%	1.68%	2.50%	2.60%	2.70%	2.60%
Capacity $/MW-day)	85.05	131.83	91.30	144.21	159.24	237.36	296.73
$/kW-yr	31.04	48.12	33.32	52.64	58.12	86.64	108.31
				0.025	0.026	0.027	0.026
Transmission							
$/MW-Day							
$/MW-Day	44.90	45.55	46.33	0.00	0.00	0.00	0.00
$/kW-yr	16.38864	16.6246	16.9109	0	0	0	0

Transmission - Original Estimate
Energy & Capacity Prices based on 2015 H1 LTF Published 02/26/2016

utility discount rate	7.58%
residential line losses energy	0.07993
residential line losses peak	0.0869
C&I line losses energy	0.04484
C&I line losses peak	0.05131
residential retail rate $/kWh	**0.091**
commercial retail energy rate	**0.085**
industrial retail energy rate $/	**0.067**
commercial retail demand rat	**4**
industrial retail demand rate $	**4**
retail rate escalation	**0.02**
residential customer discount	**0.15**
commercial customer discoun	**0.15**
industrial customer discount r	**0.15**
Shared Benefit %	**0.15**
program benefit %	**0.15**

	R	C	I
Line Losse	37.93906	30.95087	30.95087
Line Losse	24.50023	0	0
Retail Rate	0.015586	0	85.04833
Customer I	0.15	0.15	16.38864

Voltage Level of Service	Indiana Total

Based on 2013 Line Loss Study

Demand (kw)		
Transmission	1.02914	0.02914
Subtransmission	1.04227	0.04227
Primary Lines	1.06035	0.06035
Secondary	1.0869	0.0869

Energy (kwh)		
Transmission	1.02293	0.02293
Subtransmission	1.03899	0.03899
Primary Lines	1.05069	0.05069
Secondary	1.07993	0.07993

Losses - Net System Input	5.29% MWh
	6.39% MW
Losses - Net System Output	5.59% MWh
	6.83% MW

5	6	7	8	9	10	11	12	13	14
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
51.02	57.12	61.31	66.23	71.14	75.08	79.73	84.05	88.92	93.94
38.56	44.15	47.63	52.55	57.10	61.11	64.78	68.39	72.09	75.97
44.54	50.38	54.20	59.12	63.84	67.81	71.96	75.90	80.17	84.60
2.30%	2.20%	2.20%	2.10%	2.10%	2.10%	2.00%	2.00%	2.00%	2.00%
							0.02	0.02	0.02
303.55	310.23	317.06	323.71	330.51	337.45	344.20	351.09	358.11	365.27
110.80	113.23	115.73	118.16	120.64	123.17	125.63	128.15	130.71	133.32
0.023	0.022	0.022	0.021	0.021	0.021	0.02	0.02	0.02	0.02
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0	0	0	0	0	0	0

15	16	17	18	19	20	21	22	23	24
2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
95.53	97.75	101.01	102.19	104.67	107.33	108.39	111.90	112.31	116.12
77.33	78.70	81.15	82.32	84.14	86.08	87.22	89.61	90.59	93.18
86.07	87.84	90.68	91.86	93.99	96.28	97.38	100.31	101.02	104.19
2.00%	2.00%	2.00%	1.90%	1.90%	2.00%	2.00%	2.00%	1.90%	1.90%
0.02	0.02	0.02							
372.57	380.03	387.63	394.99	402.50	410.546	418.7569	427.132	435.2476	443.5173
135.99	138.71	141.48	144.17	146.91	149.85	152.85	155.90	158.87	161.88
0.02	0.02	0.02	0.019	0.019	0.02	0.02	0.02	0.019	0.019
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	0	0	0	0	0	0	0	0	0

25	26	27	28	29	30	31	32	33
2041	2042	2043	2044	2045	2046	2047	2048	2049
118.34	119.08	121.65	122.46	124.28	126.72	128.998	131.32	133.6837
95.06	95.95	98.04	99.27	100.89	102.91	104.7673	106.6531	108.5729
106.23	107.06	109.37	110.40	112.12	114.34	116.3981	118.4932	120.6261
1.90%	1.90%	1.90%	1.80%	1.80%	1.80%	1.80%	1.80%	1.80%
451.9441	460.531	469.2811	477.7282	486.3273	495.0812	503.9926	513.0645	522.2997
164.96	168.09	171.29	174.37	177.51	180.70	183.96	187.27	190.64
0.019	0.019	0.019	0.018	0.018	0.018	0.018	0.018	0.018
0.00	0.00	0.00	0.00					
0	0	0	0	0	0	0	0	0

I&M 201

Energy Efficiency (EE)	
Residential	
	Home Energy Products
	Income Qualified Weatherproofing
	School Education
	Home Appliance Recycling
	Home New Construction
	Home Weatherproofing
	Home Energy Engagement
	Res Portfolio
Commercial & Industrial	
	Work Prescriptive Rebates
	Work Custom Rebates
	Work Direct Install
	C&I Portfolio
Public	
	Efficient Streetlighting

EE Portfolio

Demand Side Management (DSM)
Home Energy Management
Work Energy Management*
Electric Energy Consumption Optimization**

DSM Portfolio

I&M 201

Energy Efficiency (EE)	
Residential	
	Home Energy Products
	Income Qualified Weatherproofing
	School Education
	Home Appliance Recycling
	Home New Construction
	Home Weatherproofing
	Home Energy Engagement
	Res Portfolio
Commercial & Industrial	
	Work Prescriptive Rebates

	Work Custom Rebates
	Work Direct Install
	C&I Portfolio
Public	
	Efficient Streetlighting

EE Portfolio

Demand Side Management (DSM)
Home Energy Management
Work Energy Management*
Electric Energy Consumption Optimization**

DSM Portfolio

I&M 201

Energy Efficiency (EE)	
Residential	
	Home Energy Products
	Income Qualified Weatherproofing
	School Education
	Home Appliance Recycling
	Home New Construction
	Home Weatherproofing
	Home Energy Engagement
	Res Portfolio
Commercial & Industrial	
	Work Prescriptive Rebates
	Work Custom Rebates
	Work Direct Install
	C&I Portfolio
Public	
	Efficient Streetlighting

EE Portfolio

Demand Side Management (DSM)
Home Energy Management
Work Energy Management*
Electric Energy Consumption Optimization**

DSM Portfolio

*Work Energy Management was scored only from the 3 year perspective due to the r

**No EECO deployments are forecasted in-service during 2017 and therefore 2017 w

7 Plan - Benefit Cost Analysis

USCRT	TRC	RIM	Participant	TRC Benefits	TRC Costs	TRC Net Benefits
2.65	2.04	0.58	3.98	$5,231,182	$2,563,272	$2,667,910
0.79	0.79	0.38	N/A	$474,916	$603,139	-$128,223
2.26	2.26	0.66	N/A	$1,596,329	$705,154	$891,175
1.26	1.26	0.46	N/A	$793,246	$627,090	$166,157
1.58	1.19	0.60	1.85	$791,400	$662,577	$128,823
1.20	1.04	0.45	2.60	$662,396	$637,135	$25,262
3.40	3.40	0.59	N/A	$7,826,977	$2,303,992	$5,522,985
2.39	2.14	0.57	N/A	$17,376,446	$8,102,357	$9,274,088
5.74	2.66	0.82	2.65	$20,853,442	$7,828,142	$13,025,299
5.23	3.09	0.82	3.52	$21,342,811	$6,903,267	$14,439,544
2.89	1.44	0.70	1.84	$1,328,106	$921,474	$406,632
5.33	2.78	0.81	2.98	$43,524,358	$15,652,883	$27,871,475
#REF!	#REF!	#REF!	N/A	#REF!	#REF!	#REF!
3.68	2.49	0.71	N/A	$64,294,378	$25,773,415	$38,520,963
2.85	3.30	1.97	3.15	$8,833,042	$2,680,598	$6,152,444
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
3.56	2.57	N/A	N/A	$73,127,420	$28,454,013	$44,673,407

3 Plan - Benefit Cost Analysis

USCRT	TRC	RIM	Participant	TRC Benefits	TRC Costs	TRC Net Benefits
2.28	1.76	0.57	3.88	$3,728,601	$2,117,847	$1,610,755
0.81	0.81	0.39	N/A	$460,406	$566,334	($105,928)
2.38	2.38	0.68	N/A	$1,574,211	$662,812	$911,399
1.30	1.30	0.47	N/A	$779,838	$600,027	$179,811
1.66	1.20	0.63	1.78	$827,762	$690,046	$137,716
1.24	1.07	0.46	2.55	$640,940	$598,018	$42,922
3.37	3.37	0.60	N/A	$7,539,050	$2,235,940	$5,303,110
2.31	2.08	0.58	N/A	$15,550,808	$7,471,023	$8,079,785
5.67	2.77	0.83	2.77	$15,854,299	$5,733,322	$10,120,977

4.68	2.88	0.82	3.44	$15,290,434	$5,302,862	$9,987,572
2.80	1.44	0.70	1.87	$1,152,091	$798,899	$353,192
4.99	2.73	0.82	3.02	$32,296,824	$11,835,083	$20,461,741
#REF!	#REF!	#REF!	N/A	#REF!	#REF!	#REF!
3.39	2.41	0.70	N/A	$51,118,018	$21,207,420	$29,910,597
3.20	3.56	2.17	2.94	$7,428,412	$2,086,941	$5,341,471
N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.1	1.1	0.5	1.2	$6,840,068	$6,397,445	$442,623
2.75	2.20	N/A	N/A	$65,386,497	$29,691,807	$35,694,691

9 Plan - Benefit Cost Analysis

USCRT	TRC	RIM	Participant	TRC Benefits	TRC Costs	TRC Net Benefits
2.30	1.82	0.59	4.16	$3,002,823	$1,652,409	$1,350,414
0.82	0.82	0.40	N/A	$445,062	$541,908	($96,846)
2.48	2.48	0.71	N/A	$1,539,982	$621,231	$918,751
1.36	1.36	0.49	N/A	$762,779	$562,713	$200,066
1.71	1.24	0.64	1.80	$798,966	$645,745	$153,221
1.28	1.10	0.47	2.58	$618,741	$559,973	$58,769
3.24	3.24	0.61	N/A	$7,272,811	$2,241,256	$5,031,555
2.32	2.12	0.59		$14,441,165	$6,825,235	$7,615,930
5.73	2.87	0.84	2.90	$11,065,895	$3,860,077	$7,205,818
4.58	2.88	0.83	3.49	$13,456,373	$4,668,819	$8,787,554
2.61	1.41	0.70	1.90	$987,949	$699,328	$288,621
4.86	2.76	0.83	3.12	$25,510,217	$9,228,224	$16,281,993
#REF!	#REF!	#REF!	N/A	#REF!	#REF!	#REF!
3.25	2.42	0.70		$43,106,456	$17,838,558	$25,267,898
3.89	4.41	2.49	2.98	$7,308,525	$1,658,753	$5,649,771
N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.1	1.1	0.5	1.1	$7,682,890	$7,229,570	$453,320
2.60	2.17	N/A	N/A	$58,097,871	$26,726,881	$31,370,990

nature of the program and the associated cost structure.

as not scored for that year.

UCT Benefits	UCT Costs	UCT Net Benefits
$5,231,182	$1,970,726	$3,260,456
$474,916	$603,139	-$128,223
$1,596,329	$705,154	$891,175
$793,246	$627,090	$166,157
$791,400	$502,327	$289,072
$662,396	$550,243	$112,153
$7,826,977	$2,303,992	$5,522,985
$17,376,446	$7,262,671	$10,113,775
$20,853,442	$3,632,947	$17,220,494
$21,342,811	$4,077,633	$17,265,177
$1,328,106	$458,943	$869,163
$43,524,358	$8,169,524	$35,354,834
#REF!	#REF!	#REF!

$64,294,378	$17,450,369	$46,844,009

$8,833,042	$3,103,794	$5,729,248
N/A	N/A	N/A
N/A	N/A	N/A

$73,127,420	$20,554,163	$52,573,257

UCT Benefits	UCT Costs	UCT Net Benefits
$3,728,601	$1,638,036	$2,090,565
$460,406	$566,334	($105,928)
$1,574,211	$662,812	$911,399
$779,838	$600,027	$179,811
$827,762	$498,197	$329,565
$640,940	$517,033	$123,907
$7,539,050	$2,235,940	$5,303,110
$15,550,808	$6,718,379	$8,832,429
$15,854,299	$2,795,344	$13,058,955

$15,290,434	$3,265,942	$12,024,492
$1,152,091	$410,919	$741,172
$32,296,824	$6,472,204	$25,824,620
#REF!	#REF!	#REF!

$51,118,018	$15,091,897	$36,026,120

$7,428,412	$2,322,816	$5,105,596
N/A	N/A	N/A
$6,840,068	$6,397,445	$442,623

$65,386,497	$23,812,159	$41,574,339

UCT Benefits	UCT Costs	UCT Net Benefits
$3,002,823	$1,305,061	$1,697,762
$445,062	$541,908	($96,846)
$1,539,982	$621,231	$918,751
$762,779	$562,713	$200,066
$798,966	$466,937	$332,029
$618,741	$484,493	$134,248
$7,272,811	$2,241,256	$5,031,555
$14,441,165	$6,223,600	$8,217,565
$11,065,895	$1,931,640	$9,134,255
$13,456,373	$2,939,204	$10,517,169
$987,949	$377,900	$610,049
$25,510,217	$5,248,744	$20,261,473
#REF!	#REF!	#REF!

$43,106,456	$13,257,443	$29,849,013

$7,308,525	$1,878,594	$5,429,931
N/A	N/A	N/A
$7,682,890	$7,229,570	$453,320

$58,097,871	$22,365,607	$35,732,264

Indiana Michigan Power Company
2015 Integrated Resource Plan
Cumulative Resource Changes

Preferred Portfolio

		(1)	(2)		(4)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	MW	*(Cumulative) Existing Fleet*	*(Cumulative) Firm Capacity Resource ADDITIONS*										
			New-Build			**Energy Efficiency (EE)**			**EECO**	**DR**	**Wind**[B]	**Solar**[C]	
IRP Period Yr.	PJM Planning Year[A]	**Unit Uprates, Derates, and PJM Capacity Performance Impact**	**NG CTs**	**NG Combined Heat and Power**	**NGCC**	*Embedded Federal EE Regulations (Non-DSM EE)* [a]	Current DSM Programs[b]	New	New	Pre-Existing DR Programs[b]		**Utility Scale**	**Distributed**
		MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW
1	2016	-	-	-	-	*206*	26	-	6	298		-	-
2	2017	98 [G]	-	-	-	*206*	37	-	6	298		-	-
3	2018	129 [H]	-	-	-	*205*	37	8	6	298		-	0.4
4	2019	197 [I]	-	-	-	*204*	37	16	6	298		-	0.4
5	2020	151 [J]	-	14	-	*206*	37	18	6	298		8	0.4
6	2021	151	-	14	-	*211*	37	19	6	298		19	0.4
7	2022	151	-	14	-	*218*	37	21	6	298		19	0.4
8	2023	151	-	14	-	*226*	37	23	6	298		19	0.8
9	2024	151	-	14	-	*234*	37	23	6	298		19	0.8
10	2025	137 [J]	-	14	-	*243*	37	25	6	298		38	0.8
11	2026	137	-	27	-	*252*	37	27	6	298		57	0.8
12	2027	137	-	27	-	*260*	37	28	6	298		76	1.1
13	2028	122 [K]	-	27	-	*268*	37	30	6	298		95	1.1
14	2029	123	-	27	-	*277*	37	32	6	298		114	1.1
15	2030	61 [L]	-	27	-	*288*	37	32	6	298		133	1.1
16	2031	61	-	27	-	*299*	37	32	6	298		152	1.5
17	2032	59	-	27	-	*309*	37	33	6	298		171	1.5
18	2033	59	-	27	-	*319*	37	33	6	298		190	1.5
19	2034	59	-	27	-	*328*	37	33	6	298		209	1.9
20	2035	(872) [M]	-	27	1,253	*399*	37	34	6	298		228	1.9
						328	*70*						

No PJM Capacity value - seen as replacement additions

'TOTAL' Energy Efficiency (2016-2035)

[A] PJM Planning Year is effective 6/1/XXXX.

[a] Represents estimated energy efficiency levels already 'embedded' into I&M's long-term load & peak demand forecast based on emergence of PRIOR-ESTABLISHED Federal efficiency st

[b] Represents estimated contribution from current/known I&M DSM-EE and Demand Response (Interruptible, DLC/ELM) program activity also reflected in the Company's long-term load

[B] Due to the intermittency of wind resources, I&M assumes 0% of nameplate' MW rating are included for capacity resource determination purposes beyond 2020.

[C] Due to the intermittency of solar resources, Utility and Distributed Solar receive 38% of nameplate MW rating for capacity resource determination purposes.

Changes to existing resources Post-June 1, 2015:

			ok	ok	ok
			Net	Net	Net
I&M Indiana DSMEE Program	Measure Name	Measure Life (IN TRM)	2010	2011	2012
2011 Low Income					
	CFLs	5	73,081	354,523	496,067
	Aerators	10	3,137	18,283	28,320
	Showerheads	5	9,010	33,027	39,857
	Water Heater Jackets	5	391	2,940	4,321
	Pipe Insulation (homes)	15	5,859	33,098	49,635
	Shell Insulation	25	56,160	247,512	264,519
2011 Home Energy Audit (Core)					
	June 2014 HVAC EE Prod	2	0	0	0
	Aerators/June 2014 ECM	10	4,953	36,406	67,483
	Showerheads	5	8,209	62,908	115,641
	CFLs	5	10,998	74,315	136,056
Home Weatherization+ IQW Weather+New Construct					
	Air Sealing	15	11,950	220,879	553,262
	Duct Sealing	20	0	0	0
	Shell Insulation/New Con	25	0	0	0
2011Res Lighting					
	CFLs	5	779,257	14,771,391	25,472,980
2011 Core C&I Rebates					
	VFD - 1.5 HP-50 HP	15	32,293	749,727	1,408,855
	LED Auto Traffic Signal	10	0	149,699	276,197
	LED Exit Sign (Retrofit Only)	20	257	18,096	22,336
	LED Exit Sign (Retrofit Only) (4/1/2011 and later)	20	0	50,433	189,233
	LED Pedestrian Signals	10	0	5,221	13,161
	LED Reach-In Refrigerated Case Lighting	8	1,389	112,734	144,875
	Light Tube	10	0	0	0
	Pulse Start Metal Halide (Retrofit Only)	15	0	0	0
	1 - 5 HP	15	0	864	1,175
	7.5 - 20 HP	15	0	2,602	4,163
	25 - 100 HP	15	0	0	0
	125 - 250 HP	15	0	0	0
	Occupancy Sensor < 500 W	8	27,630	1,081,718	1,278,311
	Occupancy Sensor < 500 W (4/1/2011 and later)	8	0	341,812	1,573,334
	Occupancy Sensor >= 500 W	8	33,342	412,588	440,834

	Occupancy Sensor >= 500 W (4/1/2011 and later)	8	0	46,248	290,429
	Plug Load Occupancy Sensors	8	0	0	0
	1L T5 HO replacing T12 (Elec. Ballast)	15	0	0	0
	2L T5 HO replacing T12 (Elec. Ballast)	15	0	0	0
	3L T5 HO replacing T12 (Elec. Ballast)	15	0	0	0
	4L T5 HO replacing T12 (Elec. Ballast)	15	0	0	0
	1L T5 replacing T12 (Elec. Ballast)	15	0	0	0
	2L T5 replacing T12 (Elec. Ballast)	15	0	92	105
	3L T5 replacing T12 (Elec. Ballast)	15	0	0	0
	4L T5 replacing T12 (Elec. Ballast)	15	0	4,321	6,103
	T8 1L-4 ft Low Watt - 25 W	15	0	50	1,190
	T8 1L-4 ft Low Watt - 28 W	15	0	6,610	12,922
	T8 1L-4 ft Low Watt - 30 W	15	0	0	0
	T8 2L-4 ft Low Watt - 25 W	15	0	34,790	97,363
	T8 2L-4 ft Low Watt - 28 W	15	0	201,477	573,770
	T8 2L-4 ft Low Watt - 30 W	15	0	53,714	67,957
	T8 3L-4 ft Low Watt - 25 W	15	0	93,365	169,439
	T8 3L-4 ft Low Watt - 28 W	15	0	38,243	54,245
	T8 3L-4 ft Low Watt - 30 W	15	0	1,956	2,470
	T8 4L-4 ft Low Watt - 25 W	15	0	1,272	30,291
	T8 4L-4 ft Low Watt - 28 W	15	0	105,320	216,701
	T8 4L-4 ft Low Watt - 30 W	15	0	0	0
	T8 8ft HO 1 Lamp replacing T12	15	0	1,000	3,426
	T8 8ft HO 2 Lamp replacing T12	15	0	1,513	7,272
	T8 1L-4ft Hi Lumen w/ Low BF	15	90	3,302	8,798
	T8 2L-4ft Hi Lumen w/ Low BF	15	1,774	46,671	81,397
	T8 3L-4ft Hi Lumen w/ Low BF	15	156	8,919	24,578
	T8 4L-4ft Hi Lumen w/ Low BF	15	1,491	76,115	108,916
	T8 Low Watt Relamp - 25 W	15	0	111,378	188,944
	T8 Low Watt Relamp - 28 W	15	11	14,558	45,809
	T8 Low Watt Relamp - 30 W	15	0	1,347	2,941
	T8 Low Watt Relamp - 54 W	15	0	0	0

	CFL Fixture	12	0	0	0
	CFL Screw In	3	99	867,613	1,241,356
	2L T5 HO HB	15	0	0	9,743
	3L T5 HO HB	15	0	58,502	78,198
	4L T5 HO HB	15	102,197	1,723,201	2,523,723
	6L T5 HO HB	15	28,988	815,624	1,351,879
	8L T5 HO HB	15	216,078	1,924,743	3,106,819
	3LF32T8 HB FI	15	0	0	0
	4LF32T8 HB Fl	15	87,761	875,782	1,412,687
	6LF32T8 HB Fl	15	191,867	6,772,169	10,036,306
	6LF32T8 HB Fl (4/1/2011 and later)	15	0	489,851	1,938,334
	8LF32T8 HB Fl	15	3,065	122,255	281,097
	8L HB CFL Fixture - 42 W	15	0	0	0
Schools Energy Ed					
	CFL	5	0	23,092	64,291
	LED	16	0	7,004	18,678
	Aerators	8	336	129,810	202,556
2012 & 2015 Res Lighting					
	RL- 1 Energy Star CFL Bulbs	5	0	0	3,154,187
	RL- 2 Energy Star Indoor Fixture	5	0	0	873
	RL- 3 Energy Star Outdoor Fixture	12	0	0	2,495
	RL- 4 Ceiling Fan Pool Pump HPWH	10	0	0	0
	RL- 5 LED Bulbs & May '14 Weather LED & PCT	15	0	0	8,285
2012 Statewide Core HEA					
	DI Measures Only	5	0	0	617,952
2012 Statewide Core IQW					
	DI Measures Only	5	0	0	256,871
2012 & 2015 Core C&I Prescriptive					
	T8 4ft 1 lamp - 25W	15	0	0	905,075
	T8 4ft 2 lamp - 25W	15	0	0	746
	T8 4ft 3 lamp - 25W	15	0	0	1,443
	T8 4ft 4 lamo - 25W	15	0	0	6,048
	T8 4ft 1 lamp - 28W	15	0	0	3,201
	T8 4ft 2 lamp - 28W	15	0	0	130,706
	T8 4ft 3 lamp - 28W	15	0	0	16,729
	T8 4ft 4 lamp - 28W	15	0	0	290,094
	T8 Garage - 2 lamp	15	0	0	8,235
	T8 Garage - 3 lamp	15	0	0	0
	T5 - 4ft 1 lamp - Same number of Lamp Replacement	15	0	0	0

	T5 - 4ft 2 lamp - Same number of Lamp Replacement	15	0	0	4,495
	T5 - 4ft 3 lamp - Same number of Lamp Replacement	15	0	0	0
	T5 - 4ft 4 lamp - Same number of lamp Replacement	15	0	0	0
	T5 Garage - 1 lamp	15	0	0	0
	T5 Garage - 2 lamp	15	0	0	0
	T5 Garage - 3 lamp	15	0	0	0
	T5 HO - HB 4ft 2L - 15ft and above	15	0	0	2,085
	T5 HO - HB 4ft 2L - below 15ft	15	0	0	0
	T5 Ho - HB 4ft 3L - 15ft and above	15	0	0	0
	T5 Ho - HB 4ft 3L - below 15ft	15	0	0	3,400
	T5 Ho - HB 4ft 4L - 15ft and above	15	0	0	1,153,735
	T5 Ho - HB 4ft 4L - below 15ft	15	0	0	745,303
	T5 HO - HB 4ft 6L - 15ft and above	15	0	0	107,828
	T5 HO - HB 4ft 6L - below 15ft	15	0	0	3,878
	T5 HO - HB 4ft 5L (1-10L or 2-5L fixtures) - 15ft & above	15	0	0	49,632
	T5 HO - HB 4ft 5L (1-10L or 2-5L fixtures) - below 15ft	15	0	0	0
	T5 HO - HB 4ft 6L (1-12L or 2-6L fixtures) - 15ft & above	15	0	0	40,381
	T5 HO - HB 4ft 6L (1-12L or 2-6L fixtures) - below 15ft	15	0	0	0
	CFL- Screw in (bulb only) - < 30W	3	0	0	1,321,656
	CFL - Scxrew in (bulb only) - 30W >	3	0	0	1,500
	LED Auto Traffic Signals - 8" or 12" Red	10	0	0	0
	LED Auto Traffic Signals - 8" or 12" Yellow	10	0	0	0
	LED Auto Traffic Signals - 8" or 12" Green	10	0	0	0
	LED Pedestrian Signal	10	0	0	0

	Occupancy Sensors - 500W and less connected load	8	0	0	296,705
	T12 4ft Delamping	10	0	0	57,277
	PTAC Packaged Terminal A/C < 15,000 BTUh (1.25 tons)	15	0	0	0
	Unitary and Split A/C Units < 65,000 BTUh (5.4 tons)	15	0	0	305
	Unitary and Split A/C Units ≥ 65,000 BTUh (5.4 tons) and <135,000 BTUh (11.25 tons)	15	0	0	1,062
	Unitary and Split Air Source Heat Pumps < 65,000 BTUh (5.4 tons)	15	0	0	0
	Unitary and Split Air Source Heat Pumps ≥ 65,000 BTUh (5.4 tons) and < 135,000 BTUh (11.25 tons)	15	0	0	0
	Water Cooled Chillers - Space Cooling Only ≤ 150 tons, centrifugal	20	0	0	0
	Water Cooled Chillers - Space Cooling Only ≤ 150 tons, screw, scroll	20	0	0	23,849
	Water Cooled Chillers - Space Cooling Only >150 tons and ≤ 300 tons, centrifugal	20	0	0	0
	Water Cooled Chillers - Space Cooling Only > 150 tons and ≤ 300 tons, screw, scroll	20	0	0	0
	Water Cooled Chillers - Space Cooling Only > 300 tons, centrifugal	20	0	0	490,157
	Water Cooled Chillers - Space Cooling Only > 300 tons, screw, scroll	20	0	0	0
	VFD 1-50 hp, Process Pump	15	0	0	380,323
	VFD 1-50 hp, HVAC Fans	15	0	0	0
	VFD 1-50 hp, Chilled Water	15	0	0	14,192
	VFD 1-50 hp, Heated Water	15	0	0	42,751
	Energy Star Com. Solid Door Refrigerators< 15ft3	12	0	0	317
	Energy Star Com. Glass Door Refrigerators< 15ft3	12	0	0	24
	Energy Star Com. Solid Door Refrigerators 15-30 ft3	12	0	0	176
	Energy Star Com. Glass Door Refrigerators 15-30 ft3	12	0	0	342

	Energy Star Com. Solid Door Refrigerators 30-50 ft3	12	0	0	0
	Energy Star Com. Glass Door Refrigerators 30-50 ft3	12	0	0	0
	Energy Star Com. Solid Door Refrigerators > 50 ft3	12	0	0	569
	Energy Star Com. Glass Door Refrigerators > 50ft3	12	0	0	0
	Energy Star Commercial Solid Door Freezers < 15 ft3	12	0	0	0
	Energy Star Commercial Glass Door Freezers < 15 ft3	12	0	0	0
	Energy Star Commercial Solid Door Freezers 15-30 ft3	12	0	0	0
	Energy Star Commercial Glass Door Freezers < 15-30 ft3	12	0	0	558
	Energy Star Commercial Solid Door Freezers 30-50 ft3	12	0	0	2,013
	Energy Star Commercial Glass Door Freezers 30-50 ft3	12	0	0	1,421
	Energy Star Commercial Solid Door Freezers > 50 ft3	12	0	0	0
	Energy Star Commercial Glass Door Freezers > 50 ft3	12	0	0	0
	Energy Star Ice Machine < 500 lb/day harvest rate	9	0	0	199
	Energy Star Ice Machine > = 500 and < 1000 lb/day harvest rate	9	0	0	440
	Energy Star Ice Machine >= 1000 lb/day harvest rate	9	0	0	0
	Energy Star Fryers	12	0	0	0
	Energy Star Hot Holding Cabinets Full Size	12	0	0	0
	Energy Star Hot Holding Cabinets Half Size	12	0	0	0
	Energy Star Hot Holding Cabinets Three Quarter Size	12	0	0	0
	Energy Star Steam Cookers 3 Pan	12	0	0	0
	Energy Star Steam Cookers 4 Pan	12	0	0	0
	Energy Star Steam Cookers 5 Pan	12	0	0	0
	Energy Star Steam Cookers 6 Pan	12	0	0	13,449

	Energy Star Commercial Clothes Washer	10	0	0	0
	Energy Star Dishwasher-Under Counter, Low Temp	11	0	0	0
	Energy Star Dishwasher-Under Counter, High Temp	11	0	0	0
	Energy Star Dishwasher-Door Type, Low Temp	11	0	0	2,017
	Energy Star Dishwasher-Door Type High Temp	11	0	0	0
	Energy Star Dishwasher-Single Tank Conveyor, Low Temp	11	0	0	2,656
	Energy Star Dishwasher-Single Tank Conveyor, High Temp	11	0	0	0
	Energy star Dishwasher-Multi-Tank Conveyor, Low temp	11	0	0	0
	Energy Star Dishwasher-Multi-Tank Conveyor, High temp	11	0	0	0
	ECM Cooler Motors	18	0	0	3,613
	ECM Freezer Motors	18	0	0	3,987
	Cool Roof-60,000 ft3 and less	15	0	0	226
2012 Statewide Core Energy Educ.					
	Energy Kit - CFls	5	0	0	250,110
	EK-Showerhead/Aerators	5	0	0	610,171
Appliance Recycling					
	Refrigerators	8	612,935	2,895,871	4,152,606
	Freezers	8	201,332	922,360	1,278,916
Online Audit					
Electric Kit					
	CFLs	5	0	0	174,012
	LEDs	15	0	0	0
	Aerators	10	0	0	0
	Showerheads	5	0	0	0
	Behavior	1	0	0	0
Gas Kit				0	0
	CFLs	5	0	0	155,382
	LEDs	15	0	0	0
	LED Night Lite	16	0	0	0
	Behavior	1	0	0	0
C&I Incentives (by Project)					
	Project EUL 5	5	0	0	0
	Project EUL 10	10	0	0	3,144,665
	Project EUL 15	15	0	0	0
	Project EUL 20	20	0	0	0

C&I Retro Commissioning					
Building Optimization					
	Rescheduling of Air Handlers	3	0	0	0
	Improvements in outside air use / economizers	10	0	0	0
	Duct static pressure and temperature setback	3	0	0	0
	Chiller reset / setback	10	0	0	0
	Lighting controls optimization	3	0	0	0
	Adjust zone temperature deadband	3	0	0	0
	Add supply air temperature setpoint strategy	3	0	0	0
	Test/Repair fan or pump VFD	3	0	0	0
Compressed Air Optimization					
	Leak Repair	5	0	0	0
	Elimination of inappropriate uses (e.g. cabinet cooling)	5	0	0	0
	Install No-Loss Drains replacing timer drains	5	0	0	0
	Engineered nozzles replacing open blowing	15	0	0	0
	Regulators and Solenoid control	5	0	0	0
	Operation Pressure reduction	5	0	0	0
	Flow controller repair / reset	5	0	0	0
	Piping modifications	5	0	0	0
	Mist Eliminator to reduce pressure drop	5	0	0	0
	Set/Reset Economizer mode	5	0	0	0
	Install / Reset Timers	5	0	0	0
	Repair / Reset Sequencer	5	0	0	0
	conversion of blow-off processes to low pressure air	5	0	0	0
Refrigeration Optimization					
	Fixed head pressure controls optimization	3	0	0	0
	Evaporator Controller (like K2therm device)	3	0	0	0
	Defrost Cycle controls	3	0	0	0
	Anti-sweat heater controls	12	0	0	0
C&I HVAC Tuneup					
	Tune up unit and install new economizer with DCV controls-3/4 ton	10	0	0	0

	Tune up unit and install new economizer-3/4 ton	10	0	0	0
	Tune up unit with existing economizer with thermostat and sensor replacement-4-20 ton	5	0	0	0
	Tune up unit with existing economizer with sensor replacement only 4-20 ton	5	0	0	0
	Tune up unit and add DCV control to unit with existing economizer 4-20 ton	5	0	0	0
	Perform all controls and tune up measures listed in 3,4,5 4-20 ton	5	0	0	0
C&I Audit/SBDI					
	Restaurant / Grocery Audit	4	0	0	0
	Anti-Sweat Heater Controls	12	0	0	0
	Anti-Sweat Heater Controls	12	0	0	8,163
	Auto Door Closers	16	0	0	0
	Auto Door Closers	16	0	0	0
	Auto Door Closers	16	0	0	0
	Auto Door Closers	16	0	0	0
	Evaporator Fan Controls	10	0	0	0
	LED Case Lighting	8	0	0	2,014
	LED Case Lighting	8	0	0	0
	LED Case Lighting	8	0	0	1,210
	LED Case Lighting	8	0	0	0
	Motion sensors on LED Cases	9	0	0	275
	Motion sensors on LED Cases	9	0	0	589
	Night covers/Strip Curtain	5	0	0	0
	CFLs	5	0	0	0
	Refrigeration Case Door Retrofits	10	0	0	0
	Floating Head Pressure Controls (FHPC, AIR)	15	0	0	0
	Floating Head Pressure Controls (FHPC, EVAP)	15	0	0	0
	Floating Suction Pressure Controls (FSPC, AIR)	15	0	0	0
	Floating Suction Pressure Controls (FSPC, EVAP)	15	0	0	0
	FHCP and FSPC Concurrently (AIR)	15	0	0	0
	FHCP and FSPC Concurrently (EVAP)	15	0	0	0
	LEDs & HB Fluorescent	15	0	0	0

Home Energy Reporting (Behavioral) + Peak Reduction+HEA Behavior					
	Behavior	1	0	0	744,085
Renewables & Demonstrations	Project				
		15	0	0	0
Volt VAR					
	Residential	1	0	0	0
	C&I	1	0	0	0
EE Products					
	PCTs	15	0	0	0
	Heat Pump	18	0	0	0
	AC	18	0	0	0
	Ductless Mini Split	18	0	0	0
	ECM	10	0	0	0
	Heat Pump Water Heater	10	0	0	0
	Pool Pumps	10	0	0	0
	Ceiling Fan	10	0	0	0
	Dehumidifier	10	0	0	0
New Construction					
	HERS Level Combined	25	0	0	0
I&M Weatherization IQW DI					
	LED Lighting	15	0	0	0
	Aerators	10	0	0	0
	Showerhead	5	0	0	0
	Pipe Wrap	15	0	0	0
	PCT	15	0	0	0
Weather. Audit Behavior					
	Behavior	1	0	0	0
I&M IQW Weatherization DI					
	LED Lighting	15	0	0	0
	Aerators	10	0	0	0
	Showerhead	5	0	0	0
	Pipe Wrap	15	0	0	0
	PCT	15	0	0	0
	IQW Behavior	1	0	0	0
	Air Sealing	15	0	0	0
	Duct Sealing	20	0	0	0
	Shell Insulation	25	0	0	0
2012 & 2015 Core C&I Prescriptive					
	3L T8 high bay	15	0	0	0
	4L/6L T8 high bay	15	0	0	0

8L/10L T8 high bay	15	0	0	0
T5 4ft 3 lamp - 28W	15	0	0	0
T5 4ft 4 lamp - 28W	15	0	0	0
T5HO 4ft 10 lamp - 54W - Highbay	15	0	0	0
T5HO 4ft 12 lamp - 54W - Highbay	15	0	0	0
Incandescent to LED </= 15W	15	0	0	0
Incandescent to LED </= 20W	15	0	0	0
Incandescent to LED </=12W	15	0	0	0
Incandescent to LED </= 17W	15	0	0	0
Incandescent to LED </= 16W PAR	15	0	0	0
Incandescent to LED </= 11W PAR	15	0	0	0
Incandescent to LED </= 17W PAR	15	0	0	0
HID 175W or less to LED - Exterior	15	0	0	0
HID 176W-250W to LED - Exterior	15	0	0	0
HID 251W-400W to LED - Exterior	15	0	0	0
HID 1000W to LED - Exterior	15	0	0	0
Incandescent to LED MR16	15	0	0	0
Replace 200 W HID to LED (Retrofit Kit)	15	0	0	0
Replace 250 W HID to LED (Retrofit Kit)	15	0	0	0
Replace 400 W HID to LED (Retrofit Kit)	15	0	0	0
Replace 1000 W HID to LED (Retrofit Kit)	15	0	0	0
LED 2x4 Recessed Light Fixture 3L T8 Replacement	18	0	0	0
LED 2X4 Recessed Light Fixture LED 4L T8 Replacement	18	0	0	0
LED 2x2 Recessed Light Fixture U-Tube 2L T8 Replacement	18	0	0	0
LED Tube Relamp replacing 32w 4ft T8 Lamp	18	0	0	0
LED 2x4 Recessed Light Fixture 3L T12 Replacement	18	0	0	0
LED 2x4 Recessed Light Fixture 4L T12 Replacement	18	0	0	0

LED 2x2 Recessed Light Fixture U-Tube 2L T12 Replacement	18	0	0	0
LED Tube Relamp replacing 40w 4ft T12	18	0	0	0
Refrigeration Case Door Retrofits - Add doors to open refrigeration cases	12	0	0	0
Anti-Sweat Heater Controls - Cooler case, Walk-in, Reach-in, & Coffin	12	0	0	0
Anti-Sweat Heater Controls - Freezer case, Walk-in, Reach-in, & Coffin	12	0	0	0
Refrigerated Display Case Lighting T12 6ft to LED 6ft - cooler	8	0	0	0
Refrigerated Display Case Lighting T8 5ft to LED 5ft - cooler	8	0	0	0
Refrigerated Display Case Lighting T8 5ft to LED 5ft - freezer	8	0	0	0
Refrigerated Display Case Lighting T12 6ft to LED 6ft - freezer	8	0	0	0
LED Refrigerated Space Lighting - T8 to LED - Single	8	0	0	0
LED Refrigerated Space Lighting - T12 to LED - Single	8	0	0	0
LED Refrigerated Space Lighting - T8 to LED - Double	8	0	0	0
LED Refrigerated Space Lighting - T12 to LED - Double	8	0	0	0
Auto Door Closers - Reach-in Freezer	8	0	0	0
Auto Door Closers - Reach-in Cooler	8	0	0	0
Auto Door Closers - Walk-in Freezer	8	0	0	0
Auto Door Closers - Walk-in cooler	8	0	0	0
Evaporator Fan - Install controls on Shade Pole or PSC, fan controls	16	0	0	0
Motion Sensors on LED Cases	8.1	0	0	0

Night Covers - vertical or horizontal night covers	5	0	0	0
Floating Head Pressure Controls - Adds FHPC	15	0	0	0
Floating Head Pressure Controls - Adds FSPC	15	0	0	0
CFL Hardwired Fixture	12	0	0	0
CFL 8 lamp - 42W - Highbay	12	0	0	0
LED Exit Sign	16	0	0	0
Occupancy Sensor - Greater then 500W connected load	8	0	0	0
Plug-load occupancy sensors (controlling a minimum of three items)	8	0	0	0
		2,506,096	37,260,914	77,539,007

			w/ PY 1 reset 2010	2011	2012
		Residential KWh	1,777,608	19,833,419	38,919,611
Residential C&I		C&I KWh	728,488	17,427,495	38,619,396
Check Total	0 PY 1 kwh	Total Post 2014 kWh	2,506,096	37,260,914	77,539,007

Net Lost Revenues w/ PY 1 reset		Residential NLR	$120,451	$1,343,912	$2,637,193
		C&I NLR	$41,728	$998,247	$2,212,119
		Total NLR	$162,179	$2,342,159	$4,849,312

		2010	2011	2012
	Residential KWh	1,777,608	19,833,419	38,909,525
With PY 1 Cumulative included, prior to base case py 1 reset	C&I KWh	728,488	17,427,495	38,648,244
	Total KWh	2,506,096	37,260,914	77,557,769

ok	ok	ok	ok	ok	ok	ok
Net	Net	Net	Net	Net	Net	Net
2013	2014	2015	2016	2017	2018	2019
496,067	**496,067**	**423,696**	145,510	3,966	3,966	3,966
28,320	**28,320**	**28,320**	28,320	28,320	28,320	28,320
39,857	**39,857**	**30,847**	6,830	0	0	0
4,321	**4,321**	**3,930**	1,381	0	0	0
49,635	**49,635**	**49,635**	49,635	49,635	49,635	49,635
264,519	**264,519**	**264,519**	264,519	264,519	264,519	264,519
0	**0**	**0**	0	0	0	0
67,483	**67,483**	**67,483**	67,483	67,483	67,483	67,483
115,641	**115,641**	**107,432**	52,733	0	0	0
136,056	**136,056**	**125,058**	61,741	0	0	0
553,921	**579,055**	**621,417**	643,752	643,752	643,752	643,752
1,594	**90,379**	**426,913**	428,652	428,652	428,652	428,652
7,428	**76,239**	**190,116**	247,425	247,425	247,425	247,425
25,370,682	**25,370,682**	**24,591,425**	10,599,291	-102,298	0	0
1,445,541	**1,445,541**	**1,445,541**	1,445,541	1,445,541	1,445,541	1,445,541
276,197	**276,197**	**276,197**	276,197	276,197	276,197	276,197
22,336	**22,336**	**22,336**	22,336	22,336	22,336	22,336
189,624	**189,624**	**189,624**	189,624	189,624	189,624	189,624
13,161	**13,161**	**13,161**	13,161	13,161	13,161	13,161
144,875	**144,875**	**144,875**	144,875	144,875	143,486	32,141
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
1,175	**1,175**	**1,175**	1,175	1,175	1,175	1,175
4,163	**4,163**	**4,163**	4,163	4,163	4,163	4,163
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
1,284,497	**1,284,497**	**1,284,497**	1,284,497	1,284,497	1,256,867	202,779
1,575,460	**1,575,460**	**1,575,460**	1,575,460	1,575,460	1,575,460	1,233,648
440,834	**440,834**	**440,834**	440,834	440,834	407,492	28,246

291,669	**291,669**	**291,669**	291,669	291,669	291,669	245,421
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
105	**105**	**105**	105	105	105	105
0	**0**	**0**	0	0	0	0
6,103	**6,103**	**6,103**	6,103	6,103	6,103	6,103
1,190	**1,190**	**1,190**	1,190	1,190	1,190	1,190
12,922	**12,922**	**12,922**	12,922	12,922	12,922	12,922
0	**0**	**0**	0	0	0	0
97,363	**97,363**	**97,363**	97,363	97,363	97,363	97,363
583,712	**583,712**	**583,712**	583,712	583,712	583,712	583,712
67,957	**67,957**	**67,957**	67,957	67,957	67,957	67,957
170,171	**170,171**	**170,171**	170,171	170,171	170,171	170,171
55,526	**55,526**	**55,526**	55,526	55,526	55,526	55,526
2,470	**2,470**	**2,470**	2,470	2,470	2,470	2,470
30,291	**30,291**	**30,291**	30,291	30,291	30,291	30,291
224,695	**224,695**	**224,695**	224,695	224,695	224,695	224,695
0	**0**	**0**	0	0	0	0
3,426	**3,426**	**3,426**	3,426	3,426	3,426	3,426
7,272	**7,272**	**7,272**	7,272	7,272	7,272	7,272
8,798	**8,798**	**8,798**	8,798	8,798	8,798	8,798
81,415	**81,415**	**81,415**	81,415	81,415	81,415	81,415
24,760	**24,760**	**24,760**	24,760	24,760	24,760	24,760
109,002	**109,002**	**109,002**	109,002	109,002	109,002	109,002
188,944	**188,944**	**188,944**	188,944	188,944	188,944	188,944
50,271	**50,271**	**50,271**	50,271	50,271	50,271	50,271
2,941	**2,941**	**2,941**	2,941	2,941	2,941	2,941
0	**0**	**0**	0	0	0	0

0	**0**	**0**	0	0	0	0
1,241,354	**373,840**	**97**	0	0	0	0
15,588	**15,588**	**15,588**	15,588	15,588	15,588	15,588
78,198	**78,198**	**78,198**	78,198	78,198	78,198	78,198
2,586,968	**2,586,968**	**2,586,968**	2,586,968	2,586,968	2,586,968	2,586,968
1,381,502	**1,381,502**	**1,381,502**	1,381,502	1,381,502	1,381,502	1,381,502
3,144,026	**3,144,026**	**3,144,026**	3,144,026	3,144,026	3,144,026	3,144,026
0	**0**	**0**	0	0	0	0
1,417,633	**1,417,633**	**1,417,633**	1,417,633	1,417,633	1,417,633	1,417,633
10,036,306	**10,036,306**	**10,036,306**	10,036,306	10,036,306	10,036,306	10,036,306
2,042,460	**2,042,460**	**2,042,460**	2,042,460	2,042,460	2,042,460	2,042,460
282,058	**282,058**	**282,058**	282,058	282,058	282,058	282,058
0	**0**	**0**	0	0	0	0
64,679	**64,679**	**741,508**	1,218,820	1,177,621	1,177,233	1,177,233
18,678	**18,678**	**428,877**	732,152	732,152	732,152	732,152
202,556	**202,556**	**1,166,524**	1,879,221	1,879,221	1,878,885	1,749,411
14,490,535	**25,118,274**	**28,755,550**	31,841,505	28,687,318	17,350,970	6,723,231
7,159	**8,422**	**8,422**	8,422	7,549	1,263	0
18,514	**18,514**	**18,514**	18,514	18,514	18,514	18,514
0	**0**	**0**	0	0	0	0
27,010	**50,907**	**231,202**	1,318,506	1,318,506	1,318,506	1,318,506
4,781,127	**7,998,323**	**8,276,890**	8,276,890	7,658,938	3,495,763	278,567
2,151,697	**3,157,417**	**3,621,770**	3,621,770	3,364,899	1,470,073	464,353
1,164,705	**1,403,915**	**1,409,125**	1,430,556	1,430,556	1,430,556	1,430,556
201,888	**2,203,764**	**2,333,633**	2,859,014	2,859,014	2,859,014	2,859,014
79,575	**285,239**	**321,756**	344,507	344,507	344,507	344,507
164,534	**1,094,955**	**1,209,675**	1,258,217	1,258,217	1,258,217	1,258,217
29,004	**43,229**	**43,454**	45,011	45,011	45,011	45,011
565,147	**1,046,222**	**1,304,132**	1,333,845	1,333,845	1,333,845	1,333,845
198,238	**494,586**	**608,229**	618,155	618,155	618,155	618,155
753,615	**965,720**	**1,171,982**	1,325,930	1,325,930	1,325,930	1,325,930
66,156	**68,109**	**68,109**	68,109	68,109	68,109	68,109
0	**0**	**0**	0	0	0	0
0	**40,506**	**46,292**	46,292	46,292	46,292	46,292

13,940	**22,750**	**23,645**	23,645	23,645	23,645	23,645
0	**134**	**153**	153	153	153	153
26,238	**225,880**	**228,612**	228,759	228,759	228,759	228,759
0	**0**	**0**	0	0	0	0
75,423	**295,010**	**295,180**	295,180	295,180	295,180	295,180
233	**5,551**	**5,551**	5,551	5,551	5,551	5,551
23,016	**25,284**	**25,284**	25,284	25,284	25,284	25,284
2,672	**10,576**	**10,576**	10,576	10,576	10,576	10,576
30,284	**120,374**	**179,277**	179,277	179,277	179,277	179,277
785,178	**841,307**	**843,846**	843,846	843,846	843,846	843,846
9,938,077	**38,096,942**	**40,361,053**	40,361,053	40,361,053	40,361,053	40,361,053
3,426,150	**6,637,904**	**6,980,745**	6,980,745	6,980,745	6,980,745	6,980,745
1,088,501	**3,856,305**	**4,096,700**	4,096,700	4,096,700	4,096,700	4,096,700
301,771	**517,863**	**523,434**	523,434	523,434	523,434	523,434
1,390,197	**8,373,048**	**8,916,703**	8,916,703	8,916,703	8,916,703	8,916,703
96,706	**700,082**	**700,082**	700,082	700,082	700,082	700,082
251,916	**994,334**	**999,137**	999,137	999,137	999,137	999,137
82,006	**85,601**	**2,478,218**	11,807,713	11,807,713	11,807,713	11,807,713
6,319,029	**6,928,747**	**5,615,499**	618,126	8,408	0	0
280,163	**512,004**	**556,382**	282,392	50,551	4,673	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
230,766	**240,883**	**241,461**	245,508	245,508	245,508	245,508

1,868,129	**6,406,648**	**7,314,548**	8,185,304	8,185,304	8,185,304	8,185,304
850,951	**6,193,893**	**6,442,858**	7,340,171	7,340,171	7,340,171	7,340,171
0	**332**	**1,598**	1,598	1,598	1,598	1,598
3,229	**11,715**	**14,897**	14,897	14,897	14,897	14,897
6,097	**22,613**	**32,136**	32,136	32,136	32,136	32,136
0	**212**	**486**	486	486	486	486
19	**450**	**450**	450	450	450	450
0	**0**	**0**	0	0	0	0
63,598	**68,797**	**88,594**	88,594	88,594	88,594	88,594
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
2,992,631	**4,236,608**	**4,786,749**	4,786,749	4,786,749	4,786,749	4,786,749
0	**0**	**0**	0	0	0	0
1,523,361	**2,452,354**	**3,084,913**	3,123,836	3,123,836	3,123,836	3,123,836
179,241	**1,431,987**	**2,177,529**	2,950,899	2,950,899	2,950,899	2,950,899
152,436	**391,483**	**658,087**	1,204,112	1,204,112	1,204,112	1,204,112
345,097	**887,253**	**1,287,597**	1,619,349	1,619,349	1,619,349	1,619,349
1,709	**105,054**	**166,683**	166,683	166,683	166,683	166,683
579	**121,946**	**178,984**	178,984	178,984	178,984	178,984
350	**904**	**904**	904	904	904	904
1,882	**6,049**	**6,049**	6,049	6,049	6,049	6,049

0	**336**	**474**	474	474	474	474
0	**942**	**1,076**	1,076	1,076	1,076	1,076
1,222	**4,161**	**5,448**	5,448	5,448	5,448	5,448
0	**0**	**0**	0	0	0	0
0	**459**	**1,571**	1,571	1,571	1,571	1,571
0	**0**	**2,146**	2,709	2,709	2,709	2,709
636	**1,724**	**2,007**	2,007	2,007	2,007	2,007
4,494	**6,779**	**7,010**	7,010	7,010	7,010	7,010
3,749	**4,714**	**5,529**	5,529	5,529	5,529	5,529
9,480	**19,484**	**20,152**	20,152	20,152	20,152	20,152
0	**0**	**88**	2,087	2,087	2,087	2,087
0	**0**	**947**	4,555	4,555	4,555	4,555
907	**1,006**	**1,084**	1,084	1,084	1,084	1,084
812	**812**	**812**	812	812	812	812
297	**4,586**	**5,235**	5,235	5,235	5,235	5,235
854	**6,290**	**6,348**	7,663	7,663	7,663	7,663
875	**4,205**	**4,205**	4,205	4,205	4,205	4,205
96	**15,341**	**17,207**	17,207	17,207	17,207	17,207
0	**1,181**	**4,043**	4,043	4,043	4,043	4,043
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
5,624	**61,268**	**61,268**	61,268	61,268	61,268	61,268
24,814	**66,058**	**89,376**	105,938	105,938	105,938	105,938

0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**2,616**	**10,465**	10,465	10,465	10,465	10,465
9,695	**9,695**	**9,695**	9,695	9,695	9,695	9,695
0	**2,060**	**9,906**	9,906	9,906	9,906	9,906
9,095	**9,095**	**9,095**	9,095	9,095	9,095	9,095
10,746	**47,174**	**63,853**	70,377	70,377	70,377	70,377
0	**0**	**0**	0	0	0	0
0	**13,945**	**47,839**	47,839	47,839	47,839	47,839
15,370	**96,657**	**269,599**	375,003	375,003	375,003	375,003
33,317	**156,494**	**192,513**	206,319	206,319	206,319	206,319
27,133	**90,474**	**99,039**	99,039	99,039	99,039	99,039
1,945,449	**5,330,081**	**7,194,590**	7,194,590	6,944,480	5,249,141	1,864,509
4,134,614	**4,749,168**	**4,749,168**	4,749,168	4,138,997	614,554	0
5,702,518	**8,054,913**	**10,275,970**	11,278,983	11,278,983	10,666,048	8,383,112
1,687,535	**2,282,826**	**2,734,802**	2,923,379	2,923,379	2,722,047	2,001,019
777,146	**1,635,345**	**1,913,178**	2,004,661	1,830,649	1,227,515	369,316
0	**0**	**109,604**	211,252	211,252	211,252	211,252
53,567	**178,737**	**267,376**	308,035	308,035	308,035	308,035
362,724	**1,443,538**	**2,641,746**	3,282,128	3,282,128	2,919,404	1,838,590
641,272	**903,440**	**168,379**	142,307	0	0	0
0						
1,222,424	**2,799,248**	**2,990,844**	3,113,751	2,958,369	1,891,327	314,503
0	**0**	**103,822**	244,937	244,937	244,937	244,937
69,797	**198,468**	**237,163**	273,580	273,580	273,580	273,580
1,882,391	**2,775,695**	**199,170**	154,772	0	0	0
0	0	0	0	0	0	0
10,793,405	**40,726,366**	**57,562,329**	89,657,752	89,657,752	89,657,752	89,657,752
0	0	0	0	0	0	0
0	1,572	11,996	11,996	11,996	11,996	11,996

819,709	**11,720,607**	**16,161,049**	15,341,340	4,440,442	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**94,916**	**1,130,560**	1,130,560	1,035,644	0	0
2,807,673	**10,245,976**	**15,069,846**	15,069,846	15,069,846	12,262,173	4,823,870
0	**0**	**0**	0	0	0	0
0	**24,095**	**573,699**	573,699	573,699	573,699	549,604
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**53,027**	**1,262,537**	1,262,537	1,262,537	1,262,537	1,209,510
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**66,876**	**1,592,288**	1,592,288	1,592,288	1,592,288	1,525,412
0	**0**	**0**	0	0	0	0
2,977	**14,313**	**14,313**	11,336	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0

0	**0**	**0**	0	0	0	0
0	**469**	**11,167**	11,167	11,167	11,167	10,698
0	**0**	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
9,083	**43,667**	**43,667**	43,667	43,667	43,667	43,667
179,954	**344,070**	**377,921**	377,921	377,921	377,921	377,921
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
1,348	**2,487**	**2,487**	2,487	2,487	2,487	2,487
231	**427**	**427**	427	427	427	427
57,862	**106,757**	**106,757**	106,757	106,757	106,757	106,757
430,289	**631,620**	**873,793**	976,394	976,394	976,394	976,394
449,137	**430,561**	**650,593**	657,160	657,160	657,160	657,160
47,943	**130,578**	**273,100**	275,988	275,988	275,988	275,988
60,284	**195,905**	**206,497**	214,271	214,271	214,271	214,271
3,471	**7,766**	**7,766**	7,766	7,766	7,766	7,766
9,350	**24,920**	**24,920**	24,920	24,920	24,920	24,920
0	**394**	**0**	0	0	0	-394
0	**757**	**1,652**	1,652	1,652	1,652	895
76,652	**433,100**	**491,064**	491,064	491,064	491,064	491,064
1,665	**39,648**	**39,648**	39,648	39,648	39,648	39,648
213,071	**393,120**	**393,120**	393,120	393,120	393,120	393,120
0	**0**	**0**	0	0	0	0
119,283	**220,080**	**220,080**	220,080	220,080	220,080	220,080
0	**0**	**0**	0	0	0	0
0	**0**	**0**	0	0	0	0
2,767	**742,305**	**3,721,670**	5,423,811	5,423,811	5,423,811	5,423,811

10,866,899	**22,150,706**	**24,569,366**	13,396,070	0	0	0
15,538	57,329	61,773	61,773	61,773	61,773	61,773
0	1,312,960	**1,671,278**	4,624,055	0	0	0
0	1,411,853	**1,528,446**	3,190,843	0	0	0
0	9,589	**61,003**	84,255	84,255	84,255	84,255
0	2,492	**19,359**	35,561	35,561	35,561	35,561
0	4,242	**18,852**	21,818	21,818	21,818	21,818
0	8,079	**65,307**	119,184	119,184	119,184	119,184
0	26,822	**164,741**	261,476	261,476	261,476	261,476
0	966	**5,578**	17,643	17,643	17,643	17,643
0	484	**4,576**	12,399	12,399	12,399	12,399
0	5	**189**	392	392	392	392
0	1,686	**26,544**	60,872	60,872	60,872	60,872
0	65,407	**512,543**	871,214	871,214	871,214	871,214
0	31,368	**139,256**	162,610	162,610	162,610	162,610
0	8,723	**54,011**	55,195	55,195	55,195	55,195
0	23,167	**144,807**	155,221	155,221	155,221	132,054
0	924	**6,989**	13,772	13,772	13,772	13,772
0	12,376	**64,564**	64,564	64,564	64,564	64,564
0	409,683	**159,279**	21,135	0	0	0
0	0	**216**	1,868	1,868	1,868	1,868
0	0	**23**	234	234	234	234
0	0	**43**	1,026	1,026	1,026	1,026
0	0	**301**	1,467	1,467	1,467	1,467
0	0	**0**	0	0	0	0
0	0	**1,266**	7,439	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0

0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**10,681**	44,704	44,704	44,704	44,704
0	0	**25,844**	150,668	150,668	150,668	150,668
0	0	**2,648**	23,236	23,236	23,236	23,236
0	0	**102,916**	1,094,779	1,094,779	1,094,779	1,094,779
0	0	**50,377**	252,621	252,621	252,621	252,621
0	0	**152,089**	560,484	560,484	560,484	560,484

0	0	**33,040**	177,554	177,554	177,554	177,554
0	0	**53,461**	313,842	313,842	313,842	313,842
0	0	**0**	0	0	0	0
0	0	**45,421**	72,674	72,674	72,674	72,674
0	0	**0**	0	0	0	0
0	0	**461**	1,007	1,007	1,007	1,007
0	0	**2,407**	15,986	15,986	15,986	15,986
0	0	**24,966**	48,897	48,897	48,897	48,897
0	0	**0**	0	0	0	0
0	0	**10,160**	25,673	25,673	25,673	25,673
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**3,460**	5,536	5,536	5,536	5,536
0	0	**2,357**	3,772	3,772	3,772	3,772
0	0	**0**	0	0	0	0
0	0	**42,690**	68,304	68,304	68,304	0

0	0	**0**	0	0	0	0
0	0	**30,334**	80,890	80,890	80,890	80,890
0	0	**7,381**	25,278	25,278	25,278	25,278
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**0**	0	0	0	0
0	0	**23,283**	137,888	137,888	137,888	137,888
0	0	**0**	0	0	0	0
159,724,119	314,422,846	371,063,835	400,232,472	350,620,567	316,854,151	281,809,272

2 and 10 pricing
old vs new fcf

2013	2014	2015	2016	2017	2018	2019
78,234,854	118,377,162	131,455,951	117,384,085	82,811,732	57,445,722	31,922,176
81,464,766	195,986,783	240,158,091	285,878,411	270,838,859	262,438,453	252,848,816
159,699,620	314,363,945	371,614,042	403,262,496	353,650,591	319,884,175	284,770,992
		-0.18211407	-0.28278864	-0.12497186	-0.01756	0.094135964
$5,142,451	$8,021,236	$8,907,455	$7,953,946	$5,611,323	$3,892,522	$2,163,047
$4,752,283	$11,226,123	$13,756,255	$16,375,115	$15,513,650	$15,032,475	$14,483,180
$9,894,734	$19,247,359	$22,663,711	$24,329,061	$21,124,973	$18,924,997	$16,646,227

2013	2014	2015	2016	2017	2018	2019

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Net	Net	Net	Net	Net				
2020	2021	2022	2023	2024	2025	2026	2027	2028
3,256	0	0						
25,183	10,037							
0	0							
0	0							
49,635	49,635							
264,519	264,519							
0	0							
62,530	31,077							
0	0							
0	0							
643,752	643,752							
428,652	428,652							
247,425	247,425							
0	0							
1,445,541	1,445,541							
276,197	126,498							
22,336	22,336							
189,624	189,624							
13,161	7,940							
0	0							
0	0							
0	0							
1,175	1,175							
4,163	4,163							
0	0							
0	0							
6,186	0							
2,126	0							
0	0							

1,240	0							
0	0							
0	0							
0	0							
0	0							
0	0							
0	0							
105	105							
0	0							
6,103	6,103							
1,190	1,190							
12,922	12,922							
0	0							
97,363	97,363							
583,712	583,712							
67,957	67,957							
170,171	170,171							
55,526	55,526							
2,470	2,470							
30,291	30,291							
224,695	224,695							
0	0							
3,426	3,426							
7,272	7,272							
8,798	8,798							
81,415	81,415							
24,760	24,760							
109,002	109,002							
188,944	188,944							
50,271	50,271							
2,941	2,941							
0	0							

0	0							
0	0							
15,588	15,588							
78,198	78,198							
2,586,968	2,586,968							
1,381,502	1,381,502							
3,144,026	3,144,026							
0	0							
1,417,633	1,417,633							
10,036,306	10,036,306							
2,042,460	2,042,460							
282,058	282,058							
0	0							
500,404	0							
732,152	732,152							
1,676,665	1,676,665							
3,085,955	0							
0	0							
18,514	18,514							
0	0							
1,318,506	1,318,506							
0	0							
0	0							
1,430,556	1,430,556							
2,859,014	2,859,014							
344,507	344,507							
1,258,217	1,258,217							
45,011	45,011							
1,333,845	1,333,845							
618,155	618,155							
1,325,930	1,325,930							
68,109	68,109							
0	0							
46,292	46,292							

23,645	23,645							
153	153							
228,759	228,759							
0	0							
295,180	295,180							
5,551	5,551							
25,284	25,284							
10,576	10,576							
179,277	179,277							
843,846	843,846							
40,361,053	40,361,053							
6,980,745	6,980,745							
4,096,700	4,096,700							
523,434	523,434							
8,916,703	8,916,703							
700,082	700,082							
999,137	999,137							
11,807,713	11,807,713							
0	0							
0	0							
0	0							
0	0							
0	0							
245,508	245,508							

7,888,599	6,317,175							
7,340,171	7,340,171							
1,598	1,598							
14,897	14,897							
32,136	32,136							
486	486							
450	450							
0	0							
88,594	88,594							
0	0							
0	0							
4,786,749	4,786,749							
0	0							
3,123,836	3,123,836							
2,950,899	2,950,899							
1,204,112	1,204,112							
1,619,349	1,619,349							
166,683	166,683							
178,984	178,984							
904	904							
6,049	6,049							

474	474							
1,076	1,076							
5,448	5,448							
0	0							
1,571	1,571							
2,709	2,709							
2,007	2,007							
7,010	7,010							
5,529	5,529							
20,152	20,152							
2,087	2,087							
4,555	4,555							
1,084	885							
812	372							
5,235	5,235							
7,663	7,663							
4,205	4,205							
17,207	17,207							
4,043	4,043							
0	0							
0	0							
61,268	61,268							
105,938	105,938							

0	0							
0	0							
10,465	10,465							
9,695	9,695							
9,906	9,906							
9,095	9,095							
70,377	70,377							
0	0							
47,839	47,839							
375,003	375,003							
206,319	206,319							
99,039	99,039							
0	0							
0	0							
7,126,377	5,576,465							
1,644,463	1,235,844							
0								
0								
91,483	0							
211,252	211,252							
308,035	308,035							
640,382	0							
0	0							
0								
122,907	0							
244,937	244,937							
273,580	273,580							
0	0							
0	0							
89,657,752	89,657,752							
0	0							
11,996	11,996							

0	0							
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0	0							
43,667	43,667							
377,921	377,921							
0	0							
0	0							
2,487	2,487							
427	427							
106,757	106,757							
974,380	546,105							
657,160	208,023							
274,778	228,045							
214,271	153,987							
7,766	7,491							
24,920	24,331							
0	0							
0	0							
491,064	491,064							
39,648	39,648							
393,120	393,120							
0	0							
220,080	220,080							
0	0							
0	0							
5,423,811	5,423,811							

0	0							
61,773	61,773							
0	0							
0	0							

84,255	84,255
35,561	35,561
21,818	21,818
119,184	119,184
261,476	261,476
17,643	17,643
12,399	12,399
392	392
60,872	60,872

871,214	871,214

162,610	162,610
55,195	55,195
10,414	0
13,772	13,772
64,564	64,564

0	0

1,868	1,868
234	234
983	0
1,467	1,467
0	0
0	0
0	0
0	0
0	0

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0	0
0	0
44,704	44,704
150,668	150,668
23,236	23,236
1,094,779	1,094,779
252,621	252,621
560,484	560,484

177,554	177,554
313,842	313,842
0	0
72,674	72,674
0	0
1,007	1,007
15,986	15,986
48,897	48,897
0	0
25,673	25,673
0	0
0	0
0	0
0	0
0	0
5,536	5,536
3,772	3,772
0	0
0	0

0	0								
80,890	80,890								
25,278	25,278								
0	0								
0	0								
0	0								
137,888	137,888								
0	0								
261,251,374	252,068,632	0	0	0	0	0	0	0	

2020	2021							
21,516,485	15,055,571	0	0	0	0	0	0	0
242,696,609	239,974,781	0	0	0	0	0	0	0
264,213,094	255,030,352	0	0	0	0	0	0	0
0.15953118	0.18874172							
$1,457,957	$1,020,165							
$13,901,662	$13,745,755							
$15,359,619	$14,765,921							

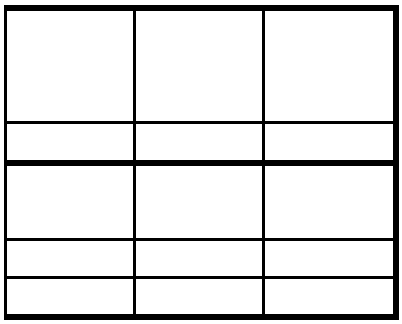
2020	2021

2029	2030	2031	2032	2033	2034	2035	2036	2037	2038

0	0	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

2039	2040



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2017 EECO Program

	Benefits				Costs				Benefit/Cost Ratios				Net Benefits
Program	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	UCT
EECO	-	-	-	-	-	-	-	-	NM	NM	NM	NM	N/A

2018 EECO Program

	Benefits				Costs				Benefit/Cost Ratios				Net Benefits
Program	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	UCT
EECO	6,840,068	6,840,068	6,840,068	7,641,232	6,397,445	6,397,445	14,038,677	6,397,445	1.1	1.1	0.5	1.2	442,623

2019 EECO Program

	Benefits				Costs				Benefit/Cost Ratios				Net Benefits
Program	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	TRC	UCT	RIM	PCT	UCT
EECO	7,682,890	7,682,890	7,682,890	8,201,682	7,229,570	7,229,570	15,431,252	7,229,570	1.1	1.1	0.5	1.1	453,320

3 Year EECO Program

	Benefits				Costs				Benefit/Cost Ratios				Net Benefits
EECO	14,522,958	14,522,958	14,522,958	15,842,914	13,627,015	13,627,015	29,469,929	13,627,015	1.1	1.1	0.5	1.2	

Indiana Michigan Power Company
Work Energy Management

Carrying Costs and Depreciation Expense Calculat

Forecasted 2018 through 2019

FERC Account 371 Load Side Equipm

	(1)	(2)	(3)	(4)	(5)	(6)
Month	Beginning Balance - EPIS	Ending Balance - EPIS	Annual Depreciation Rate	Beginning Balance - Accumulated Depreciation	Monthly Depreciation Expense Col (1) x Col (3) / 12	Ending Balance - Accumulated Depreciation Col (4) + Col (5)
Jan 2014			6.67%		$ -	$ -
Feb 2014			6.67%		0	0
Mar 2014			6.67%		0	0
Apr 2014			6.67%		0	0
May 2014			6.67%		0	0
Jun 2014			6.67%		0	0
al Jan 2014 - Jun 2014					$ -	
Jul 2014			6.67%		0	
Aug 2014			6.67%		0	
Sep 2014			6.67%		0	
Oct 2014			6.67%		0	
Nov 2014			6.67%		0	
Dec 2014			6.67%		0	
Total Jul 2014 - Dec 2014					$ -	
Jan 2015			6.67%	0	0	0
Feb 2015			6.67%	0	0	0
Mar 2015			6.67%	0	0	0
Apr 2015			6.67%	0	0	0
May 2015			6.67%	0	0	0
Jun 2015			6.67%	0	0	0
Jul 2015			6.67%	0	0	0
Aug 2015			6.67%	0	0	0
Sep 2015			6.67%	0	0	0
Oct 2015			6.67%	0	0	0

Nov 2015			6.67%	0	0	0
Dec 2015			6.67%	0	0	0
Total Jan 2015 - Dec 2015					$ -	
Jan 2016			6.67%	0	0	0
Feb 2016			6.67%	0	0	0
Mar 2016			6.67%	0	0	0
Apr 2016			6.67%	0	0	0
May 2016			6.67%	0	0	0
Jun 2016			6.67%	0	0	0
Jul 2016			6.67%	0	0	0
Aug 2016			6.67%	0	0	0
Sep 2016			6.67%	0	0	0
Oct 2016			6.67%	0	0	0
Nov 2016			6.67%	0	0	0
Dec 2016			6.67%	0	0	0
Total Jan 2016 - Dec 2016					$ -	
Jan 2017	0	0	6.67%	0	0	0
Feb 2017	0	0	6.67%	0	0	0
Mar 2017	0	0	6.67%	0	0	0
Apr 2017	0	0	6.67%	0	0	0
May 2017	0	0	6.67%	0	0	0
Jun 2017	0	0	6.67%	0	0	0
Jul 2017	0	1,695,000	6.67%	0	0	0
Aug 2017	1,695,000	2,081,111	6.67%	0	9,417	9,417
Sep 2017	2,081,111	2,467,222	6.67%	9,417	11,562	20,979
Oct 2017	2,467,222	2,853,333	6.67%	20,979	13,707	34,686
Nov 2017	2,853,333	3,239,444	6.67%	34,686	15,852	50,538
Dec 2017	3,239,444	3,625,556	6.67%	50,538	17,997	68,535
Total Jan 2017 - Dec 2017					$ 68,535	
Jan 2018	3,625,556	4,011,667	6.67%	68,535	20,142	88,677
Feb 2018	4,011,667	4,397,778	6.67%	88,677	22,287	110,964
Mar 2018	4,397,778	4,783,889	6.67%	110,964	24,432	135,396
Apr 2018	4,783,889	5,170,000	6.67%	135,396	26,577	161,973
May 2018	5,170,000	5,556,111	6.67%	161,973	28,722	190,695
Jun 2018	5,556,111	5,942,222	6.67%	190,695	30,867	221,562
Jul 2018	5,942,222	6,328,333	6.67%	221,562	33,012	254,574
Aug 2018	6,328,333	6,714,444	6.67%	254,574	35,157	289,731
Sep 2018	6,714,444	6,950,000	6.67%	289,731	37,302	327,033
Oct 2018	6,950,000	6,950,000	6.67%	327,033	38,611	365,644
Nov 2018	6,950,000	6,950,000	6.67%	365,644	38,611	404,255
Dec 2018	6,950,000	6,950,000	6.67%	404,255	38,611	442,866
Total Jan 2018 - Dec 2018					$ 374,331	
Jan 2019	6,950,000	6,950,000	6.67%	442,866	38,611	481,477

Feb 2019	6,950,000	6,950,000	6.67%	481,477	38,611	520,088
Mar 2019	6,950,000	6,950,000	6.67%	520,088	38,611	558,699
Apr 2019	6,950,000	6,950,000	6.67%	558,699	38,611	597,310
May 2019	6,950,000	6,950,000	6.67%	597,310	38,611	635,921
Jun 2019	6,950,000	6,950,000	6.67%	635,921	38,611	674,532
Jul 2019	6,950,000	6,950,000	6.67%	674,532	38,611	713,143
Aug 2019	6,950,000	6,950,000	6.67%	713,143	38,611	751,754
Sep 2019	6,950,000	6,950,000	6.67%	751,754	38,611	790,365
Oct 2019	6,950,000	6,950,000	6.67%	790,365	38,611	828,976
Nov 2019	6,950,000	6,950,000	6.67%	828,976	38,611	867,587
Dec 2019	6,950,000	6,950,000	6.67%	867,587	38,611	906,198
Total Jan 2019 - Dec 2019					$ 463,332	

$ 906,198	$	-

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(7)	(8)	(9)	(10)
Beginning Balance - Total Plant in Service Balance Eligible for Carrying Costs	Ending Balance - Total Plant in Service Balance Eligible for Carrying Costs	Annual WACC Rate	Monthly Carrying Costs Avg Col (7)&(8) x Col (9) /12
		9.42%	$ -
		9.42%	0
		9.42%	0
		9.42%	0
		9.42%	0
		9.42%	0
			$ -
		9.32%	0
		9.32%	0
		9.32%	0
		9.32%	0
		9.32%	0
		9.32%	0
			$ -
		8.89%	0
		8.89%	0
		8.89%	0
		8.89%	0
		8.89%	0
		8.89%	0
		8.81%	0
		8.81%	0
		8.81%	0
		8.81%	0

		8.81%		0
		8.81%		0
			$	-
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
			$	-
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
		8.66%		0
	1,695,000	8.66%		6,116
1,695,000	2,071,694	8.66%		13,591
2,071,694	2,446,243	8.66%		16,302
2,446,243	2,818,647	8.66%		18,997
2,818,647	3,188,906	8.66%		21,677
3,188,906	3,557,021	8.66%		24,342
			$	101,025
3,557,021	3,922,990	8.84%		27,551
3,922,990	4,286,814	8.84%		30,239
4,286,814	4,648,493	8.84%		32,912
4,648,493	5,008,027	8.84%		35,568
5,008,027	5,365,416	8.84%		38,209
5,365,416	5,720,660	8.84%		40,834
5,720,660	6,073,759	8.84%		43,443
6,073,759	6,424,713	8.84%		46,036
6,424,713	6,622,967	8.84%		48,059
6,622,967	6,584,356	8.84%		48,647
6,584,356	6,545,745	8.84%		48,363
6,545,745	6,507,134	8.84%		48,078
			$	487,939
6,507,134	6,468,523	8.84%		47,794

6,468,523	6,429,912	8.84%		47,509
6,429,912	6,391,301	8.84%		47,225
6,391,301	6,352,690	8.84%		46,940
6,352,690	6,314,079	8.84%		46,656
6,314,079	6,275,468	8.84%		46,371
6,275,468	6,236,857	8.84%		46,087
6,236,857	6,198,246	8.84%		45,803
6,198,246	6,159,635	8.84%		45,518
6,159,635	6,121,024	8.84%		45,234
6,121,024	6,082,413	8.84%		44,949
6,082,413	6,043,802	8.84%		44,665
			$	554,751

6,043,802

Deployment	3

	Sum of Tot Custs	Sum of Tot mWh	Sum of Res custs	Sum of Res kWh	Sum of Com custs	Sum of Com kWh	Sum of Ind custs
NORTHLAND	**4,676**	**127,672,807**	**4,079**	**45,093,957**	**346**	**23,569,323**	**117**
4933421	180	22,137,034	73	619,473	45	5,783,750	53
4933422	1,042	14,888,675	980	10,690,332	38	4,176,311	1
4933423	318	27,926,787	235	2,157,485	31	3,754,604	41
4933424	442	25,319,242	368	3,692,093	46	2,072,818	9
4933425	1,553	21,587,052	1,361	16,486,255	119	3,434,945	13
4933426	1,141	15,814,018	1,062	11,448,320	67	4,346,894	0
OSOLO	**6,122**	**155,650,210**	**4,811**	**42,538,837**	**924**	**59,744,730**	**127**
4058021	459	24,567,382	267	2,307,994	119	14,879,133	39
4058022	1,350	24,774,591	1,199	9,603,373	113	1,208,979	10
4058023	1,348	29,714,411	1,019	10,072,813	236	15,347,641	23
4058024	1,311	36,565,819	967	7,127,399	269	23,068,715	23
4058025	965	15,339,732	778	7,229,542	138	3,139,869	5
4058026	689	24,688,275	581	6,197,716	49	2,100,393	27
SOUTH SIDE	**3,897**	**85,417,696**	**3,153**	**33,121,338**	**492**	**42,711,834**	**30**
4099921	1,091	32,913,316	826	9,163,112	197	20,998,914	8
4099922	1,572	35,995,573	1,269	13,027,449	206	19,372,234	8
4099923	1,234	16,508,807	1,058	10,930,777	89	2,340,686	14
Grand Total	**14,695**	**368,740,713**	**12,043**	**120,754,132**	**1,762**	**126,025,887**	**274**

	Total Energy Savings (kWh)	Res. Energy Savings (kWh)	Comm Energy Savings (kWh)
Northland	2,265,196	801,178	419,480
Osolo	2,761,577	756,197	1,066,098
Southside	1,515,498	589,337	759,585
Total	**6,542,271**	**2,146,712**	**2,245,163**

Average Distribution Circuit Loss Factor Adjustment	Estimated CVR Factor	Target Annual Operation*	Voltage Reduction Target
1.0672	0.950	70%	2.5%

Sum of Ind kWh	Sum of Res Lighting custs	Sum of Res Lighting kWh	Sum of Com Lighting custs	Sum of Com Lighting kWh	Sum of Ind Lighting custs	Sum of Ind Lighting kWh	Sum of Street Lighting custs	Sum of Street Lighting kWh	Percent Res. MWh
58,811,033	**101**	**62,665**	**22**	**73,745**	**11**	**62,084**	**0**	**0**	35%
15,683,069	4	2,696	2	5,034	3	43,012	0	0	
543	19	11,349	4	10,140	0	0	0	0	
21,985,362	0	0	3	10,264	8	19,072	0	0	
19,542,241	19	12,090	0	0	0	0	0	0	
1,599,818	53	33,247	7	32,787	0	0	0	0	
0	6	3,284	6	15,520	0	0	0	0	
52,837,020	**129**	**82,563**	**109**	**343,509**	**19**	**68,192**	**3**	**35,359**	27%
7,280,053	5	3,328	23	78,514	6	18,360	0	0	
13,925,919	20	12,967	7	7,352	1	16,000	0	0	
4,140,084	37	21,324	26	88,105	4	9,084	3	35,359	
6,237,863	22	14,402	28	108,624	2	8,816	0	0	
4,897,054	22	15,321	21	55,922	1	2,024	0	0	
16,356,045	23	15,220	4	4,992	5	13,908	0	0	
9,378,658	**159**	**95,350**	**60**	**100,516**	**3**	**10,000**	**0**	**0**	39%
2,699,597	41	24,870	18	24,823	1	2,000	0	0	
3,503,890	61	35,201	27	52,799	1	4,000	0	0	
3,175,171	57	35,279	15	22,893	1	4,000	0	0	
121,026,711	**389**	**240,578**	**191**	**517,770**	**33**	**140,276**	**3**	**35,359**	**33%**

Industrial Energy Savings (Wh)	Street-lighting (kWh)	Demand Savings (kW)
1,044,539	0	740
938,655	627	820
166,575	0	443
2,149,769	**627**	**2,003**

: of Total Consumption (MWh)			Percent of Total Customers				
C&I MWh	Indust. MWh	Street-lighting	Res.	C&I	Indust.	Street-lighting	2015 Demand (MW)
19%	46%	0.000%	89%	8%	3%	0.000%	31.16
39%	34%	0.023%	81%	17%	2%	0.049%	34.53
50%	11%	0.000%	85%	14%	1%	0.000%	18.64
34%	**33%**	**0.010%**	**85%**	**13%**	**2%**	**0.020%**	84.33

Circuit Identifier	Station Nb XFMR	Nominal Voltage	VVC Station Winding
Deployment 3			
SOUTH SIDE (#0999) 1X 0409991-MARION	0409461X	12.47	SOUTH SIDE1X
OSOLO (#0580) 2X 0405802	0405802X	12.47	OSOLO2X
NORTHLAND (#9334) 1X 0493341	0493341X	12.47	NORTHLAND1X
Total			

Deployment 4			
FARMLAND (#9273) 1X 0492731	0492731X	12.47	FARMLAND1X
SOUTH SIDE - SOUTH BEND	0409991X	12.47	
DALEVILLE (#9279) 1X 0492791	0492791X	12.47	DALEVILLE1X
BEECH ROAD (#9387) 1X 0493871	0493871X	12.47	BEECH ROAD1X
MCKINLEY (#0559) 4X 0405594	0405594X	12.47	
Total			

Total Deployment 3 & 4 # of Circuits	**33**

EECO Program Costs			
	2017	**2018**	**2019**
Depreciation & Carry Charge Costs	$715,927	$1,158,457	$1,560,295
Ongoing O&M Cost	$270,100	$317,874	$471,959
EM&V Cost	$90,033	$105,958	$157,320
DSM Support Staff Cost	$96,000	$96,000	$96,000
Total EECO Program Cost	**$1,172,060**	**$1,678,290**	**$2,285,574**

		Total Energy Savings (kWh)
Deployment 1 & 2	East Side	2,263,634
	Elcona	1,713,035
	Grabill	1,104,538
	Hacienda	2,476,603
	Harper	1,267,528
	Lincoln	1,512,265
	South Bend	1,479,491
	Spy Run	1,651,586
	State Street	1,420,354
	Total	14,889,034
Deployment 3	Northland	2,265,196
	Osolo	2,761,577
	Southside	1,515,498
	Total	6,542,271
Deployment 4	SOUTH SIDE (SB)	1,058,205
	MCKINLEY	3,052,921
	FARMLAND	474,767
	DALEVILLE	1,468,509
	BEECH ROAD	967,715
	Total	7,022,117
Total All Deployments		28,453,422

Ongoing Incremental O&M Detail		
		2017
		30
Operations Engineer	0.2	$54,020
MRO Technician	0.25	$67,525
IT Field Ops Technician	0.25	$67,525
Distibution Engineer	0.15	$40,515
Line Crew	0.15	$40,515
		$270,100
Total On going O&M		$270,100

Total Cumulative Capital Cost		$9,003,330
% On going O&M required for Capital		3.00%
EM&V Cost 1% of Capital	1%	$90,033
DSM Support Labor		$96,000

State	Number of Circuits	VVO COST	UTILIDATA COSTS	Total EECO Capital Cost	Per Circuit Ave Cost ($)	Forecast In-Service Date
Indiana	3	$720,000	$140,625	$860,625	$286,875	Fri 2/9/18
Indiana	6	$1,594,000	$294,375	$1,888,375	$314,729	Fri 2/9/18
Indiana	6	$1,484,540	$268,125	$1,752,665	$292,111	Fri 2/9/18
	15	**$3,798,540**	**$703,125**	**$4,501,665**	$300,111	Fri 2/9/18
Indiana	2	$506,360	$58,750	$565,110	$282,555	Fri 5/3/19
Indiana	4	$1,012,720	$117,500	$1,130,220	$282,555	Fri 5/3/19
Indiana	3	$759,540	$88,125	$847,665	$282,555	Fri 5/3/19
Indiana	3	$759,540	$88,125	$847,665	$282,555	Fri 5/3/19
Indiana	6	$1,519,080	$176,250	$1,695,330	$282,555	Fri 5/3/19
	18	**$4,557,240**	**$528,750**	**$5,085,990**	$282,555	Fri 5/3/19

Total Deployment 3 and 4 Cost	**$9,587,655**

	Customer Class Allocations				
	2017		2018		20
3 Yr Total	**Residential**	**C&I**	**Residential**	**C&I**	**Residential**
$3,434,679 $1,059,934 $353,311 $288,000	90%	10%	88%	12%	88.00%
$5,135,924	**$1,049,146**	**$122,915**	**$1,482,274**	**$196,016**	**$2,011,305**

Annual Energy & Demand Savings (Full Year Operation)

Residential Energy Savings (kWh)	Commerical Energy Savings (kWh)	Industrial Energy Savings (kWh)	Street-lighting Energy Savings (kWh)
1,368,757	863,830	25,498	5,549
300,716	209,847	1,199,230	3,241
565,170	281,737	257,249	382
1,719,338	751,035	772	5,459
537,619	409,822	312,125	7,962
513,170	888,605	106,813	3,677
704,780	767,070	6,760	881
217,278	600,953	833,313	43
703,264	716,676	402	12
6,622,080	5,479,084	2,760,564	27,306
801,178	419,480	1,044,539	0
756,197	1,066,098	938,655	627
589,337	759,585	166,575	0
2,146,712	2,245,163	2,149,769	627
532,304	397,166	127,463	1,272
864,773	571,813	1,616,134	202
347,349	121,136	5,873	410
864,861	535,862	66,769	1,018
673,323	155,168	139,224	0
3,282,610	1,781,144	1,955,462	2,901
12,051,402	9,505,391	6,865,795	30,834

2018	2019
37.5	54
$63,575	$94,392
$79,469	$117,990
$79,469	$117,990
$47,681	$70,794
$47,681	$70,794
$317,874	$471,959
$317,874	$471,959

$10,595,813	$15,731,982
3.00%	3.00%
$105,958	$157,320
$96,000	$96,000

Task Name	Duration
I&M VVO Program	**680 days**
2016/17 Deployment 3 - 15 Circuits (3 Stations)	**360 days**
Initiation	60 days
Planning	60 days
Engineeirng	120 days
Construction	120 days
Commissioning	60 days
2017/18 Deployment 4 - 18 Circuits (5 Stations)	**420 days**
Initiation	60 days
Planning	60 days
Engineeirng	120 days
Construction	120 days
Commissioning	60 days

19
C&I
12%
$274,269

Northland (SB-6 circuits)

Deployment #4 - McKinley (FW-6 circuits

Demand Savings (kW)
815
522
358
910
389
416
461
336
424
4,631
740
820
443
2,003
278
795
215
462
341
1,288
7,922

Start	Finish	Predecessors
Mon	**Fri**	
Mon 9/26/16	**Fri 2/9/18**	
Mon 9/26/16	Fri 12/16/16	
Mon 9/26/16	Fri 12/16/16	
Mon 12/19/16	Fri 6/2/17	4
Mon 6/5/17	Fri	5
Mon 11/20/17	Fri 2/9/18	6
Mon 9/25/17	**Fri 5/3/19**	
Mon 9/25/17	Fri 12/15/17	
Mon 12/18/17	Fri 3/9/18	9
Mon 3/12/18	Fri 8/24/18	10
Mon 8/27/18	Fri 2/8/19	11
Mon 2/11/19	Fri 5/3/19	12

), Daleville (Muncie-3 Circuits) & Farmland (Muncie-2 circuits), Beech Road (SB-3

Deployment	4

Row Labels	Sum of Tot Custs	Sum of Tot mWh	Sum of Res custs	Sum of Res kWh	Sum of Com custs	Sum of Com kWh	Sum of Ind custs
SOUTH SIDE	**4,152**	**59,643,380**	**3,555**	**29,916,540**	**342**	**22,248,010**	**48**
4094621	145	2,755,888	77	619,142	50	2,017,267	4
4094622	2,715	29,424,848	2,492	21,441,583	120	7,836,060	2
4094623	915	17,778,252	675	5,551,055	153	11,034,591	16
4094624	377	9,684,392	311	2,304,761	19	1,360,092	26
MCKINLEY	**6,383**	**172,071,171**	**5,566**	**48,666,931**	**573**	**32,053,215**	**44**
4055921	328	68,968,659	196	1,992,677	92	3,342,264	11
4055922	1,818	19,793,190	1,676	13,265,475	97	5,049,080	4
4055923	1,419	18,595,907	1,272	12,441,555	98	6,061,135	0
4055924	1,369	31,288,493	1,223	9,594,265	116	4,460,656	4
4055925	858	20,184,610	717	7,356,343	98	11,064,701	10
4055926	591	13,240,312	482	4,016,615	72	2,075,378	15
FARMLAND	**1,620**	**26,759,218**	**1,305**	**19,521,215**	**206**	**6,811,096**	**6**
4927322	990	13,974,713	828	11,498,872	115	2,170,209	4
4927323	630	12,784,504	477	8,022,343	91	4,640,887	2
DALEVILLE	**4,220**	**82,769,261**	**3,399**	**48,582,802**	**509**	**30,119,854**	**21**
4927921	1,653	33,285,196	1,282	18,250,293	247	13,911,796	7
4927922	1,084	25,345,550	892	9,344,387	142	14,373,269	6
4927923	1,483	24,138,515	1,225	20,988,121	120	1,834,788	8
BEECH ROAD	**4,022**	**54,543,101**	**3,594**	**37,860,272**	**228**	**8,652,334**	**28**
4938721	2,184	35,037,170	1,900	19,715,729	161	7,358,959	28
4938722	1,439	15,217,233	1,333	14,108,377	46	1,052,501	0
4938723	399	4,288,698	361	4,036,166	21	240,874	0
Grand Total	**20,397**	**395,786,130**	**17,419**	**184,547,760**	**1,858**	**99,884,509**	**147**

	Total Energy Savings (kWh)	Res. Energy Savings (kWh)	Comm Energy Savings (kWh)
SOUTH SIDE (SB)	1,058,205	532,304	397,166
MCKINLEY	3,052,921	864,773	571,813
FARMLAND	474,767	347,349	121,136
DALEVILLE	1,468,509	864,861	535,862
BEECH ROAD	967,715	673,323	155,168
Total	**7,022,117**	**3,282,610**	**1,781,144**

Average Distribution Circuit Loss Factor Adjustment	Estimated CVR Factor	Target Annual Operation*	Voltage Reduction Target
1.0672	0.950	70%	2.5%

Sum of Ind kWh	Sum of Res Lighting custs	Sum of Res Lighting kWh	Sum of Com Lighting custs	Sum of Com Lighting kWh	Sum of Ind Lighting custs	Sum of Ind Lighting kWh	Sum of Street Lighting custs
7,181,857	**145**	**85,619**	**55**	**137,354**	**3**	**2,316**	**4**
94,815	6	3,228	8	21,436	0	0	0
42,600	87	54,054	13	37,277	0	0	1
1,041,737	36	19,114	31	72,863	1	484	3
6,002,705	16	9,223	3	5,778	2	1,832	0
91,076,635	**121**	**74,107**	**74**	**175,741**	**3**	**13,184**	**2**
63,601,818	12	7,283	15	17,899	1	4,000	1
1,432,576	27	17,191	14	28,868	0	0	0
0	39	25,437	10	67,780	0	0	0
17,192,411	11	5,592	14	31,569	1	4,000	0
1,720,159	20	12,417	11	17,165	1	5,184	1
7,129,671	12	6,188	10	12,460	0	0	0
330,999	**84**	**56,332**	**15**	**16,459**	**0**	**0**	**4**
253,372	29	18,541	10	10,603	0	0	4
77,627	55	37,792	5	5,856	0	0	0
3,760,503	**230**	**163,158**	**53**	**82,806**	**4**	**2,787**	**4**
1,025,702	89	67,561	24	27,056	4	2,787	0
1,571,437	26	18,126	18	38,331	0	0	0
1,163,364	115	77,471	11	17,419	0	0	4
7,831,475	**140**	**90,086**	**30**	**93,373**	**2**	**15,560**	**0**
7,831,475	72	46,373	21	69,073	2	15,560	0
0	53	34,435	7	21,920	0	0	0
0	15	9,278	2	2,380	0	0	0
110,181,469	**720**	**469,303**	**227**	**505,733**	**12**	**33,847**	**14**

Industrial Energy Savings (Wh)	Street-lighting (kWh)	Demand Savings (kW)
127,463	1,272	278
1,616,134	202	795
5,873	410	215
66,769	1,018	462
139,224	0	341
1,955,462	**2,901**	**2,091**

	Percent of Total Consumption (MWh)				Percent of Total Customers				
Sum of Street Lighting kWh	**Res. MWh**	**C&I MWh**	**Indust. MWh**	**Street-lighting**	**Res.**	**C&I**	**Indust.**	**Street-lighting**	**2015 Demand (MW)**
71,683	50%	38%	12%	0%	89%	10%	1%	0.096%	11.70
0									
13,274									
58,409									
0									
11,358	28%	19%	53%	0%	89%	10%	1%	0.031%	33.48
2,718									
0									
0									
0									
8,640									
0									
23,116	73%	26%	1%	0%	86%	14%	0%	0.247%	9.07
23,116									
0									
57,351	59%	36%	5%	0%	86%	13%	1%	0.095%	19.44
0									
0									
57,351									
0	70%	16%	14%	0%	93%	6%	1%	0.000%	14.37
0									
0									
0									
163,508	**47%**	**25%**	**28%**	**0%**	**89%**	**10%**	**1%**	**0.069%**	88.06

2091.38

Deployment	(Multiple Items)

Row Labels	Sum of Tot Custs	Sum of Tot mWh	Sum of Res custs	Sum of Res kWh	Sum of Com custs	Sum of Com kWh
EAST SIDE	**10,480**	**126,189,142**	**9,446**	**76,120,825**	**622**	**47,937,752**
4093121	1,045	9,198,655	968	7,409,220	58	1,728,901
4093122	2,447	26,570,484	2,279	17,127,314	97	9,346,377
4093123	2,209	28,423,895	1,952	16,643,941	163	10,226,422
4093124	2,006	22,259,453	1,842	16,038,726	70	6,102,319
4093125	2,517	22,097,914	2,209	17,256,364	186	4,633,952
4093126	256	17,638,743	196	1,645,260	48	15,899,781
ELCONA	**2,257**	**95,611,043**	**1,848**	**16,769,568**	**250**	**11,661,348**
4938121	78	25,921,414	0	0	26	1,418,898
4938122	117	22,546,257	67	761,147	31	1,477,011
4938123	2,062	47,143,373	1,781	16,008,421	193	8,765,439
GRABILL	**2,925**	**62,254,859**	**2,423**	**31,816,482**	**362**	**15,834,260**
4935221	525	21,417,791	392	3,802,022	87	3,809,651
4935222	2,400	40,837,067	2,031	28,014,460	275	12,024,609
HACIENDA	**9,786**	**137,471,086**	**9,051**	**95,374,863**	**567**	**41,631,433**
4933521	1,516	17,082,959	1,421	13,745,850	63	3,270,906
4933523	1,601	17,305,962	1,517	15,324,956	56	1,937,013
4933524	1,551	17,725,906	1,507	16,779,489	24	850,143
4933525	1,991	28,208,243	1,847	18,720,245	106	9,444,818
4933526	2,306	25,099,472	2,181	23,476,017	96	1,542,850
4933527	821	32,048,546	578	7,328,306	222	24,585,703
HARPER	**3,593**	**71,252,598**	**3,077**	**30,183,751**	**369**	**22,881,950**
4928821	1,456	32,869,402	1,198	10,131,427	189	5,641,380
4928822	2,137	38,383,196	1,879	20,052,324	180	17,240,570
LINCOLN	**4,164**	**83,837,300**	**3,339**	**28,400,317**	**620**	**48,892,304**
4051821	1,780	32,160,823	1,391	11,688,910	290	16,217,207
4051822	2,092	30,855,099	1,811	15,105,081	229	15,436,590
4051824	292	20,821,378	137	1,606,326	101	17,238,507
SOUTH BEND	**5,782**	**83,001,533**	**5,093**	**39,480,848**	**547**	**42,909,203**
4050321	2,436	40,203,201	2,123	15,760,514	254	23,948,615
4050322	1,928	24,341,449	1,718	13,331,663	155	10,943,687
4050323	1,418	18,456,882	1,252	10,388,671	138	8,016,901
SPY RUN	**2,259**	**92,694,625**	**1,887**	**12,187,515**	**301**	**33,650,823**
4923321	1,816	40,077,657	1,507	9,884,837	251	29,452,312
4923322	443	52,616,968	380	2,302,678	50	4,198,511
STATE STREET	**4,601**	**75,772,008**	**4,089**	**37,488,664**	**428**	**38,174,033**
4928721	2,058	39,295,093	1,795	14,649,613	224	24,575,192
4928722	1,470	24,374,853	1,279	12,780,057	169	11,572,722
4928723	1,073	12,102,062	1,015	10,058,993	35	2,026,119

Grand Total	**45,847**	**828,084,194**	**40,253**	**367,822,832**	**4,066**	**303,573,105**

	2015 Actual Verified CVR Savings (kWh)	Total Energy Consumption w/o CVR	Total Demand w/o CVR (kW)	# Ckts
East Side	1,395,597	**127,584,739**	**34,316**	**6**
Elcona	940,398	**96,551,441**	**21,974**	**3**
Grabill	0	**62,254,859**	**15,072**	**2**
Hacienda	2,117,203	**139,588,289**	**38,326**	**6**
Harper	188,838	**71,441,436**	**16,371**	**2**
Lincoln	1,398,188	**85,235,488**	**17,532**	**3**
South Bend	386,734	**83,388,267**	**19,417**	**3**
Spy Run	393,390	**93,088,015**	**14,128**	**2**
State Street	4,283,124	**80,055,132**	**17,863**	**3**
Total	11,103,472	**839,187,666**	**194,999**	**30**

	Total Energy Savings (kWh)	Res. Energy Savings (kWh)	Comm Energy Savings (kWh)
East Side	**2,263,634**	**1,368,757**	**863,830**
Elcona	**1,713,035**	**300,716**	**209,847**
Grabill	**1,104,538**	**565,170**	**281,737**
Hacienda	**2,476,603**	**1,719,338**	**751,035**
Harper	**1,267,528**	**537,619**	**409,822**
Lincoln	**1,512,265**	**513,170**	**888,605**
South Bend	**1,479,491**	**704,780**	**767,070**
Spy Run	**1,651,586**	**217,278**	**600,953**
State Street	**1,420,354**	**703,264**	**716,676**
Total	**14,889,034**	**6,622,080**	**5,479,084**

Average Distribution Circuit Loss Factor Adjustment	Estimated CVR Factor	Target Annual Operation*	Voltage Reduction Target
1.0672	0.950	70%	2.5%

Sum of Ind custs	Sum of Ind kWh	Sum of Res Lighting custs	Sum of Res Lighting kWh	Sum of Com Lighting custs	Sum of Com Lighting kWh	Sum of Ind Lighting custs	Sum of Ind Lighting kWh
9	**1,418,507**	**308**	**182,287**	**73**	**217,563**	**2**	**2,886**
0	0	7	3,682	12	56,852	0	0
0	0	56	32,668	12	48,382	0	0
6	1,371,889	55	31,271	26	61,302	0	0
0	0	83	54,419	8	34,589	0	0
3	46,618	103	57,569	11	12,078	2	2,886
0	0	4	2,679	4	4,360	0	0
103	**66,790,799**	**23**	**14,570**	**14**	**51,014**	**12**	**142,824**
44	24,381,323	0	0	2	2,908	6	118,284
14	20,301,415	2	932	2	3,728	1	2,024
45	22,108,061	21	13,638	10	44,378	5	22,516
32	**14,490,719**	**64**	**38,111**	**26**	**45,219**	**4**	**8,532**
26	13,772,647	6	3,754	10	17,480	3	7,520
6	718,072	58	34,357	16	27,739	1	1,012
2	**42,836**	**94**	**61,996**	**21**	**56,932**	**0**	**0**
2	42,836	20	11,662	1	484	0	0
0	0	20	13,104	6	28,244	0	0
0	0	3	1,452	0	0	0	0
0	0	25	17,550	10	24,200	0	0
0	0	11	9,036	2	2,508	0	0
0	0	15	9,192	2	1,496	0	0
20	**17,542,744**	**57**	**37,845**	**50**	**155,732**	**2**	**3,012**
14	16,778,981	23	17,397	22	37,501	0	0
6	763,763	34	20,448	28	118,231	2	3,012
24	**5,909,524**	**78**	**48,929**	**98**	**370,367**	**1**	**12,000**
13	3,982,015	32	20,372	51	225,284	1	12,000
2	28,948	22	13,889	26	81,767	0	0
9	1,898,561	24	14,668	21	63,316	0	0
2	**379,240**	**98**	**58,319**	**37**	**124,503**	**0**	**0**
2	379,240	39	26,319	15	65,457	0	0
0	0	38	21,264	17	44,835	0	0
0	0	21	10,736	5	14,212	0	0
13	**46,762,686**	**14**	**7,124**	**41**	**77,422**	**2**	**6,656**
11	662,519	12	5,776	34	69,814	0	0
2	46,100,167	2	1,348	7	7,608	2	6,656
3	**21,447**	**50**	**28,558**	**29**	**58,660**	**0**	**0**
3	21,447	16	9,187	20	39,655	0	0
0	0	16	9,721	5	11,757	0	0
0	0	18	9,650	4	7,248	0	0

208	**153,358,503**	**786**	**477,739**	**389**	**1,157,412**	**23**	**175,910**

Industrial Energy Savings (kWh)	**Street-lighting (kWh)**	**Demand Savings (kW)**	Checksum
25,498	**5,549**	**815**	0
1,199,230	**3,241**	**522**	0
257,249	**382**	**358**	0
772	**5,459**	**910**	0
312,125	**7,962**	**389**	0
106,813	**3,677**	**416**	0
6,760	**881**	**461**	0
833,313	**43**	**336**	0
402	**12**	**424**	0
2,760,564	**27,306**	**4,631**	0

		Percent of Total Consumption (MWh)				Percent of Total Custome		
Sum of Street Lighting custs	Sum of Street Lighting kWh	Res. MWh	C&I MWh	Indust. MWh	Street-lighting	Res.	C&I	Indust.
20	**309,323**	60%	38%	1%	0%			
0	0							
3	15,743							
7	89,071							
3	29,400							
3	88,446							
4	86,663							
7	**180,920**	18%	12%	70%	0%			
0	0							
0	0							
7	180,920							
14	**21,535**	51%	26%	23%	0%			
1	4,717							
13	16,818							
51	**303,026**	69%	30%	0%	0%			
9	11,221							
2	2,645							
17	94,822							
3	1,429							
16	69,061							
4	123,848							
18	**447,564**	42%	32%	25%	1%			
10	262,717							
8	184,847							
4	**203,859**	34%	59%	7%	0%			
2	15,035							
2	188,824							
0	0							
5	**49,419**	48%	52%	0%	0%			
3	23,056							
0	0							
2	26,363							
1	**2,399**	13%	36%	50%	0%			
1	2,399							
0	0							
2	**647**	50%	50%	0%	0%			
0	0							
1	595							
1	52							

122	**1,518,692**	44%	37%	19%	0%	90%	10%

ers	
Street-lighting	2015 Demand (MW)
	33.52
	21.46
	14.72
	37.44
	15.99
	17.13
	18.97
	13.80
	17.45

190.48

Deployment	GIS Circuit id	Station_Name	Circuit_nb	Tot Custs	Tot mWh	Tot Sum kW Pk	Res custs
1	4051821	LINCOLN	21	1,780	32,160,823	6,871	1,391
1	4051822	LINCOLN	22	2,092	30,855,099	6,091	1,811
1	4051824	LINCOLN	24	292	20,821,378	7,721	137
1	4928721	STATE STREET	21	2,058	39,295,093	6,923	1,795
1	4928722	STATE STREET	22	1,470	24,374,853	3,678	1,279
1	4928723	STATE STREET	23	1,073	12,102,062	655	1,015
1	4933521	HACIENDA	21	1,516	17,082,959	1,015	1,421
1	4933523	HACIENDA	23	1,601	17,305,962	1,068	1,517
1	4933524	HACIENDA	24	1,551	17,725,906	395	1,507
2	4050321	SOUTH BEND	21	2,436	40,203,201	6,661	2,123
2	4050322	SOUTH BEND	22	1,928	24,341,449	3,690	1,718
2	4050323	SOUTH BEND	23	1,418	18,456,882	2,910	1,252
2	4093121	EAST SIDE	21	1,045	9,198,655	735	968
2	4093122	EAST SIDE	22	2,447	26,570,484	2,988	2,279
2	4093123	EAST SIDE	23	2,209	28,423,895	5,090	1,952
2	4093124	EAST SIDE	24	2,006	22,259,453	2,070	1,842
2	4093125	EAST SIDE	25	2,517	22,097,914	1,966	2,209
2	4093126	EAST SIDE	26	256	17,638,743	3,636	196
2	4923321	SPY RUN	21	1,816	40,077,657	8,171	1,507
2	4923322	SPY RUN	22	443	52,616,968	9,228	380
2	4928821	HARPER	21	1,456	32,869,402	6,652	1,198
2	4928822	HARPER	22	2,137	38,383,196	7,055	1,879
2	4933525	HACIENDA	25	1,991	28,208,243	2,613	1,847
2	4933526	HACIENDA	26	2,306	25,099,472	513	2,181
2	4933527	HACIENDA	27	821	32,048,546	6,401	578
2	4935221	GRABILL	21	525	21,417,791	6,428	392
2	4935222	GRABILL	22	2,400	40,837,067	5,679	2,031
2	4938121	ELCONA	21	78	25,921,414	8,105	-
2	4938122	ELCONA	22	117	22,546,257	5,141	67
2	4938123	ELCONA	23	2,062	47,143,373	10,842	1,781
6	4094321	NORTHWEST	21	538	37,457,206	10,112	313
6	4094322	NORTHWEST	22	113	12,929,540	5,583	6
6	4094326	NORTHWEST	26	1,571	21,936,845	4,208	1,334
6	4094327	NORTHWEST	27	1,297	38,931,505	6,410	1,191
6	4094328	NORTHWEST	28	430	10,726,975	3,254	369
3	4099921	SOUTH SIDE	21	1,091	32,913,316	7,091	826
3	4099922	SOUTH SIDE	22	1,572	35,995,573	7,914	1,269
3	4099923	SOUTH SIDE	23	1,234	16,508,807	3,324	1,058
3	4933421	NORTHLAND	21	180	22,137,034	7,661	73
3	4933422	NORTHLAND	22	1,042	14,888,675	1,045	980
3	4933423	NORTHLAND	23	318	27,926,787	10,018	235
3	4933424	NORTHLAND	24	442	25,319,242	5,832	368
3	4933425	NORTHLAND	25	1,553	21,587,052	2,542	1,361

3	4933426	NORTHLAND	26	1,141	15,814,018	1,643	1,062
3	4058021	OSOLO	21	459	24,567,382	7,265	267
3	4058022	OSOLO	22	1,350	24,774,591	4,146	1,199
3	4058023	OSOLO	23	1,348	29,714,411	6,418	1,019
3	4058024	OSOLO	24	1,311	36,565,819	8,392	967
3	4058025	OSOLO	25	965	15,339,732	1,885	778
3	4058026	OSOLO	26	689	24,688,275	7,691	581
6	4917921	PARNELL	21	735	13,406,319	2,815	643
6	4917922	PARNELL	22	978	25,115,435	5,850	713
6	4917923	PARNELL	23	161	16,553,328	6,314	37
6	4917924	PARNELL	24	1,683	24,568,115	4,121	1,514
6	4917925	PARNELL	25	2,237	23,647,029	3,200	1,988
6	4923323	SPY RUN	23	1,325	42,089,714	6,449	1,258
6	4923324	SPY RUN	24	1,837	25,144,593	4,693	1,676
6	4923325	SPY RUN	25	1,614	28,978,303	5,421	1,368
4	4055921	MCKINLEY	21	328	68968659.5	12501.44	196
4	4055922	MCKINLEY	22	1818	19793189.7	2241.446	1676
4	4055923	MCKINLEY	23	1419	18595906.9	2228.9	1272
4	4055924	MCKINLEY	24	1369	31288492.9	4536.96	1223
4	4055925	MCKINLEY	25	858	20184609.8	4597.22	717
4	4055926	MCKINLEY	26	591	13240312.4	2871.06	482
4	4094621	SOUTH SIDE	21	145	2755887.95	968.18	77
4	4094622	SOUTH SIDE	22	2715	29424847.5	2846.53	2492
4	4094623	SOUTH SIDE	23	915	17778252.5	4034	675
4	4094624	SOUTH SIDE	24	377	9684391.61	1687.16	311
4	4927322	FARMLAND	22	990	13974713.1	1273.02	828
4	4927323	FARMLAND	23	630	12784504.4	1993.92	477
4	4927921	DALEVILLE	21	1653	33285195.5	7198.448	1282
4	4927922	DALEVILLE	22	1084	25345550.2	4484.02	892
4	4927923	DALEVILLE	23	1483	24138515.5	2172.8	1225
4	4938721	BEECH ROAD	21	2184	35037169.5	4615	1900
4	4938722	BEECH ROAD	22	1439	15217233.5	337.9	1333
4	4938723	BEECH ROAD	23	399	4288697.64	514.9	361
5	4922821	DARDEN ROAD	21	1470	28170033.5	5433.624	1212
5	4922822	DARDEN ROAD	22	1050	11040686.4	433.96	983
5	4922824	DARDEN ROAD	24	1595	17854464.3	1379.886	1481
5	4922825	DARDEN ROAD	25	1619	24931076.5	3775.58	1351
5	4922826	DARDEN ROAD	26	1076	17941840.6	3533.94	915
5	4932421	WAYNEDALE	21	2365	26442507.9	3233.136	2100
5	4932422	WAYNEDALE	22	601	18370165.4	5918.496	496
5	4932423	WAYNEDALE	23	361	6456350.82	939.3	292
5	4932424	WAYNEDALE	24	1522	20869165.5	2429.14	1268
5	4932425	WAYNEDALE	25	265	23524013.9	6719.14	190
5	4932426	WAYNEDALE	26	722	19113551.9	3721.22	620

Res kWh	res sum pk	Com custs	Com kWh	com sum pk	Ind custs	Ind kWh	ind sum pk	Res Lighting custs
11,688,910	60	290	16,217,207	5,338	13	3,982,015	1,470	32
15,105,081	169	229	15,436,590	5,383	2	28,948	26	22
1,606,326	-	101	17,238,507	6,907	9	1,898,561	814	24
14,649,613	8	224	24,575,192	6,916	3	21,447	-	16
12,780,057	-	169	11,572,722	3,678	-	-	-	16
10,058,993	11	35	2,026,119	644	-	-	-	18
13,745,850	58	63	3,270,906	943	2	42,836	13	20
15,324,956	-	56	1,937,013	1,068	-	-	-	20
16,779,489	-	24	850,143	392	-	-	-	3
15,760,514	142	254	23,948,615	6,249	2	379,240	129	39
13,331,663	94	155	10,943,687	3,596	-	-	-	38
10,388,671	16	138	8,016,901	2,878	-	-	-	21
7,409,220	23	58	1,728,901	712	-	-	-	7
17,127,314	93	97	9,346,377	2,894	-	-	-	56
16,643,941	10	163	10,226,422	4,593	6	1,371,889	475	55
16,038,726	9	70	6,102,319	2,059	-	-	-	83
17,256,364	20	186	4,633,952	1,914	3	46,618	32	103
1,645,260	-	48	15,899,781	3,565	-	-	-	4
9,884,837	33	251	29,452,312	7,965	11	662,519	174	12
2,302,678	5	50	4,198,511	1,287	2	46,100,167	7,936	2
10,131,427	-	189	5,641,380	2,378	14	16,778,981	4,147	23
20,052,324	108	180	17,240,570	6,686	6	763,763	224	34
18,720,245	-	106	9,444,818	2,612	-	-	-	25
23,476,017	24	96	1,542,850	480	-	-	-	11
7,328,306	169	222	24,585,703	6,220	-	-	-	15
3,802,022	36	87	3,809,651	1,800	26	13,772,647	4,539	6
28,014,460	203	275	12,024,609	5,020	6	718,072	452	58
-	-	26	1,418,898	516	44	24,381,323	7,589	-
761,147	-	31	1,477,011	687	14	20,301,415	4,454	2
16,008,421	39	193	8,765,439	3,173	45	22,108,061	7,630	21
2,808,795	-	141	9,555,453	2,932	36	24,973,223	7,179	16
48,786	-	58	2,793,141	879	37	10,055,762	4,703	1
11,277,406	-	165	6,952,845	2,778	20	3,641,346	1,430	29
9,894,812	-	62	27,388,693	5,636	3	1,608,997	774	28
3,109,796	-	31	1,289,450	461	9	6,265,973	2,793	11
9,163,112	-	197	20,998,914	6,522	8	2,699,597	569	41
13,027,449	-	206	19,372,234	6,587	8	3,503,890	1,328	61
10,930,777	20	89	2,340,686	1,168	14	3,175,171	2,136	57
619,473	-	45	5,783,750	1,917	53	15,683,069	5,744	4
10,690,332	-	38	4,176,311	1,045	1	543	-	19
2,157,485	-	31	3,754,604	1,456	41	21,985,362	8,563	-
3,692,093	-	46	2,072,818	1,074	9	19,542,241	4,757	19
16,486,255	22	119	3,434,945	1,702	13	1,599,818	818	53

11,448,320	-	67	4,346,894	1,643	-	-	-	6
2,307,994	-	119	14,879,133	4,527	39	7,280,053	2,738	5
9,603,373	-	113	1,208,979	422	10	13,925,919	3,724	20
10,072,813	1	236	15,347,641	4,722	23	4,140,084	1,695	37
7,127,399	10	269	23,068,715	6,226	23	6,237,863	2,157	22
7,229,542	-	138	3,139,869	838	5	4,897,054	1,047	22
6,197,716	-	49	2,100,393	925	27	16,356,045	6,766	23
3,964,232	-	86	9,430,798	2,815	-	-	-	-
5,508,475	-	239	19,519,283	5,831	2	21,407	20	7
345,673	-	113	16,143,141	5,941	-	-	-	-
12,482,427	7	137	12,042,676	4,114	-	-	-	23
15,673,582	-	183	7,712,116	3,105	4	168,534	95	31
10,873,991	-	45	31,200,069	6,449	-	-	-	18
13,628,731	13	126	11,313,152	4,572	6	156,392	108	12
10,841,972	6	173	10,447,186	3,443	10	7,561,137	1,971	25
1992677.46	28.7	92	3342264.23	1277.44	11	63601818	11194.6	12
13265475.2	12.526	97	5049079.79	1663.16	4	1432576	565.76	27
12441555	75.8	98	6061135.36	2153.1	0	0	0	39
9594265.02	11	116	4460656.28	1643.06	4	17192411	2882.9	11
7356343.37	14	98	11064701.3	3729.1	10	1720159	750.12	20
4016615.26	21.6	72	2075378	987.7	15	7129671.15	1861.76	12
619141.615	0	50	2017267	899.08	4	94815	69.1	6
21441582.9	54.2	120	7836060.09	2773.83	2	42600	12	87
5551054.62	8	153	11034590.8	3585.1	16	1041737	418.4	36
2304760.69	3.6	19	1360092.23	427.5	26	6002705	1256.06	16
11498872	25.8	115	2170209.45	1158	4	253372	89.1	29
8022343.15	142.2	91	4640886.54	1818.42	2	77627	33.3	55
18250293.5	203.3	247	13911795.8	6552.248	7	1025702	442.9	89
9344387.21	1	142	14373269.4	4164.02	6	1571437	319	26
20988121.4	125.9	120	1834788.37	1207.46	8	1163364	839.44	115
19715729.2	0	161	7358958.8	1644.1	28	7831475.33	2970.9	72
14108377.1	7.9	46	1052501.31	330	0	0	0	53
4036165.8	137.6	21	240874.182	377.3	0	0	0	15
10745351.2	0	197	17214672.7	5364.144	2	4217	31.48	30
9020687.2	2.7	31	1977687.65	427.46	0	0	0	32
14547985.8	14.8	64	3271278.69	1365.086	0	0	0	46
12470106.8	0	178	7578758.08	2749.78	5	4779115	1025.8	64
8599725.65	15.3	107	9265467.38	3442.24	2	24841.7692	8.4	43
16705656.9	13	183	9577741.43	3192.536	2	56781	27.6	41
4867911.86	0	75	4081866.08	2015.7	17	9393051.46	3902.796	4
2273058.21	8.2	45	310475.923	215.5	2	3837360	715.6	10
12032560.5	18	159	8572474.61	2369.54	1	96000	41.6	48
1480505.64	35.2	49	1459375.34	767.3	17	20568598.1	5916.64	1
6739641.88	4.9	70	5384801	1803.84	6	6923272	1912.48	19

Res Lighting kWh	Com Lighting custs	Com Lighting kWh	Ind Lighting custs	Ind Lighting kWh	Street Lighting custs	Street Lighting kWh	Street Lighting Summer Pk
20,372	51	225,284	1	12,000	2	15,035	4
13,889	26	81,767	-	-	2	188,824	513
14,668	21	63,316	-	-	-	-	-
9,187	20	39,655	-	-	-	-	-
9,721	5	11,757	-	-	1	595	-
9,650	4	7,248	-	-	1	52	-
11,662	1	484	-	-	9	11,221	2
13,104	6	28,244	-	-	2	2,645	0
1,452	-	-	-	-	17	94,822	2
26,319	15	65,457	-	-	3	23,056	141
21,264	17	44,835	-	-	-	-	-
10,736	5	14,212	-	-	2	26,363	16
3,682	12	56,852	-	-	-	-	-
32,668	12	48,382	-	-	3	15,743	1
31,271	26	61,302	-	-	7	89,071	12
54,419	8	34,589	-	-	3	29,400	1
57,569	11	12,078	2	2,886	3	88,446	-
2,679	4	4,360	-	-	4	86,663	71
5,776	34	69,814	-	-	1	2,399	-
1,348	7	7,608	2	6,656	-	-	-
17,397	22	37,501	-	-	10	262,717	127
20,448	28	118,231	2	3,012	8	184,847	38
17,550	10	24,200	-	-	3	1,429	0
9,036	2	2,508	-	-	16	69,061	9
9,192	2	1,496	-	-	4	123,848	12
3,754	10	17,480	3	7,520	1	4,717	53
34,357	16	27,739	1	1,012	13	16,818	4
-	2	2,908	6	118,284	-	-	-
932	2	3,728	1	2,024	-	-	-
13,638	10	44,378	5	22,516	7	180,920	-
9,782	28	96,153	4	13,800	-	-	-
864	10	25,943	1	5,043	-	-	-
20,746	22	42,605	1	1,896	-	-	-
16,597	10	12,600	-	-	3	9,806	-
5,236	10	56,520	-	-	-	-	-
24,870	18	24,823	1	2,000	-	-	-
35,201	27	52,799	1	4,000	-	-	-
35,279	15	22,893	1	4,000	-	-	-
2,696	2	5,034	3	43,012	-	-	-
11,349	4	10,140	-	-	-	-	-
-	3	10,264	8	19,072	-	-	-
12,090	-	-	-	-	-	-	-
33,247	7	32,787	-	-	-	-	-

3,284	6	15,520	-	-	-	-	-
3,328	23	78,514	6	18,360	-	-	-
12,967	7	7,352	1	16,000	-	-	-
21,324	26	88,105	4	9,084	3	35,359	-
14,402	28	108,624	2	8,816	-	-	-
15,321	21	55,922	1	2,024	-	-	-
15,220	4	4,992	5	13,908	-	-	-
-	6	11,289	-	-	-	-	-
3,694	17	62,576	-	-	-	-	-
-	9	24,130	-	-	2	40,384	373
12,488	8	15,844	-	-	1	14,680	-
16,550	30	75,235	1	1,012	-	-	-
8,927	4	6,727	-	-	-	-	-
6,282	15	38,696	2	1,340	-	-	-
13,786	25	77,944	2	2,720	11	33,558	-
7283	15	17898.77	1	4000	1	2718	0.7
17190.68	14	28868	0	0	0	0	0
25436.54	10	67780	0	0	0	0	0
5591.643	14	31568.92	1	4000	0	0	0
12417.23	11	17164.92	1	5184	1	8640	104
6188	10	12460	0	0	0	0	0
3228	8	21436.33	0	0	0	0	0
54053.59	13	37277	0	0	1	13274	6.5
19114.4	31	72862.67	1	484	3	58409	22.5
9223.286	3	5778.4	2	1832	0	0	0
18540.69	10	10603	0	0	4	23116	0.12
37791.75	5	5856	0	0	0	0	0
67561.4	24	27055.62	4	2787.2	0	0	0
18125.6	18	38331	0	0	0	0	0
77471.28	11	17419.43	0	0	4	57351	0
46372.76	21	69073.37	2	15560	0	0	0
34435.39	7	21919.69	0	0	0	0	0
9277.662	2	2380	0	0	0	0	0
22542.76	26	47621.85	0	0	3	135628	38
19797.54	1	1452	0	0	3	21062	3.8
27703.86	4	7496	0	0	0	0	0
41734.72	20	60877.96	1	484	0	0	0
28777.76	8	15108	0	0	1	7920	68
24512.2	38	75816.31	1	2000	0	0	0
2844	7	19456	2	5036	0	0	0
4983	11	29989.69	1	484	0	0	0
27214.87	44	112511.5	1	484	1	27920	0
484	4	8542.769	4	6508	0	0	0
13030	5	5562	0	0	2	47245	0

Indiana Michigan Power Company
Electric Energy Consumption Optimization (EECO) F

Carrying Costs and Depreciation Expense Calcula
For the Period January 1, 2014 through December 3

Summary of Accounts 353, 362, 364, 365, 368, 369,

	(1)	(2)	(3)	(4)	(5)	(6)
Month	Beginning Balance - EPIS	Ending Balance - EPIS	Annual Depreciation Rate	Beginning Balance - Accumulated Depreciation	Monthly Depreciation Expense	Ending Balance - Accumulated Depreciation Col (4) + Col (5)
Jan 2014	$ 2,661,652	$ 2,670,126		$ 50,066	$ 5,852	$ 55,918
Feb 2014	2,670,126	2,683,529		55,918	5,899	61,817
Mar 2014	2,683,529	2,687,262		61,817	6,136	67,953
Apr 2014	2,687,262	2,695,368		67,953	6,234	74,187
May 2014	2,695,368	2,641,204		74,187	6,299	80,486
Jun 2014	2,641,204	2,632,858		80,486	6,495	86,981
Jan 2014 - Jun 2014					$ 36,915	
Jul 2014	2,632,858	2,522,088		86,981	6,711	93,691
Aug 2014	2,522,088	2,918,083		93,691	6,925	100,616
Sep 2014	2,918,083	2,904,748		100,616	8,095	108,711
Oct 2014	2,904,748	2,910,939		108,711	8,069	97,687
Nov 2014	2,910,939	2,981,223		97,687	8,083	103,683
Dec 2014	2,981,223	3,099,460		103,683	6,789	108,445
Total Jul 2014 - Dec 2014					$ 44,672	
Jan 2015	3,099,460	3,402,248		108,445	7,085	115,530
Feb 2015	3,402,248	3,425,679		115,530	9,221	124,751
Mar 2015	3,425,679	3,447,771		124,751	9,276	134,027
Apr 2015	3,447,771	3,509,422		134,027	9,327	143,354
May 2015	3,509,422	4,845,956		143,354	9,476	152,830
Jun 2015	4,845,956	5,075,854		152,830	12,143	164,973
Jul 2015	5,075,854	5,660,805		164,973	12,617	177,590
Aug 2015	5,660,805	5,789,236		177,590	13,499	191,089
Sep 2015	5,789,236	6,256,021		191,089	13,794	204,883
Oct 2015	6,256,021	6,264,733		204,883	14,550	219,433
Nov 2015	6,264,733	6,263,484		219,433	14,562	233,995

Dec 2015	6,263,484	6,544,246	233,995	14,560	248,555
Total Jan 2015 - Dec 2015				140,110	
Jan 2016	6,544,246	6,567,845	248,555	14,992	263,547
Feb 2016	6,567,845	6,574,213	263,547	15,041	278,588
Mar 2016	6,574,213	6,574,574	278,588	15,051	293,639
Apr 2016	6,574,574	6,566,043	293,639	15,053	308,692
May 2016	6,566,043	6,566,043	308,692	15,030	323,722
Jun 2016	6,566,043	6,566,043	323,722	15,030	338,752
Jul 2016	6,566,043	6,566,043	338,752	15,030	353,782
Aug 2016	6,566,043	6,566,043	353,782	15,030	368,812
Sep 2016	6,566,043	6,566,043	368,812	15,030	383,842
Oct 2016	6,566,043	6,566,043	383,842	15,030	398,872
Nov 2016	6,566,043	6,566,043	398,872	15,030	413,902
Dec 2016	6,566,043	6,566,043	413,902	15,030	428,932
Total Jan 2016 - Dec 2016				180,377	
Jan 2017	6,566,043	6,566,043	428,932	15,030	443,962
Feb 2017	6,566,043	6,566,043	443,962	15,030	458,992
Mar 2017	6,566,043	6,566,043	458,992	15,030	474,022
Apr 2017	6,566,043	6,566,043	474,022	15,030	489,052
May 2017	6,566,043	6,566,043	489,052	15,030	504,082
Jun 2017	6,566,043	6,566,043	504,082	15,030	519,112
Jul 2017	6,566,043	6,566,043	519,112	15,030	534,142
Aug 2017	6,566,043	6,566,043	534,142	15,030	549,172
Sep 2017	6,566,043	6,566,043	549,172	15,030	564,202
Oct 2017	6,566,043	6,566,043	564,202	15,030	579,232
Nov 2017	6,566,043	6,566,043	579,232	15,030	594,262
Dec 2017	6,566,043	6,566,043	594,262	15,030	609,292
Total Jan 2017 - Dec 2017				180,360	
Jan 2018	6,566,043	6,566,043	609,292	15,030	624,322
Feb 2018	6,566,043	6,566,043	624,322	15,030	639,352
Mar 2018	6,566,043	6,566,043	639,352	15,030	654,382
Apr 2018	6,566,043	6,566,043	654,382	15,030	669,412
May 2018	6,566,043	6,566,043	669,412	15,030	684,442
Jun 2018	6,566,043	6,566,043	684,442	15,030	699,472
Jul 2018	6,566,043	6,566,043	699,472	15,030	714,502
Aug 2018	6,566,043	6,566,043	714,502	15,030	729,532
Sep 2018	6,566,043	6,566,043	729,532	15,030	744,562
Oct 2018	6,566,043	6,566,043	744,562	15,030	759,592
Nov 2018	6,566,043	6,566,043	759,592	15,030	774,622
Dec 2018	6,566,043	6,566,043	774,622	15,030	789,652
Total Jan 2018 - Dec 2018				180,360	
Jan 2019	6,566,043	6,566,043	789,652	15,030	804,682
Feb 2019	6,566,043	6,566,043	804,682	15,030	819,712

Mar 2019	6,566,043	6,566,043	819,712	15,030	834,742
Apr 2019	6,566,043	6,566,043	834,742	15,030	849,772
May 2019	6,566,043	6,566,043	849,772	15,030	864,802
Jun 2019	6,566,043	6,566,043	864,802	15,030	879,832
Jul 2019	6,566,043	6,566,043	879,832	15,030	894,862
Aug 2019	6,566,043	6,566,043	894,862	15,030	909,892
Sep 2019	6,566,043	6,566,043	909,892	15,030	924,922
Oct 2019	6,566,043	6,566,043	924,922	15,030	939,952
Nov 2019	6,566,043	6,566,043	939,952	15,030	954,982
Dec 2019	6,566,043	6,566,043	954,982	15,030	970,012
Total Jan 2019 - Dec 2019				180,360	

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(7) Beginning Balance - Total Plant in Service Balance Eligible for Carrying Costs	(8) Ending Balance - Total Plant in Service Balance Eligible for Carrying Costs	(9) Annual WACC Rate	(10) Monthly Carrying Costs Avg Col (7)&(8) x Col (9) /12
$ 2,612,497	$ 2,615,118	9.42%	$ 20,518
2,615,118	2,622,622	9.42%	20,558
2,622,622	2,620,219	9.42%	20,578
2,620,219	2,622,092	9.42%	20,576
2,622,092	2,561,629	9.42%	20,346
2,561,629	2,546,788	9.42%	20,051
			$ 122,627
2,546,788	2,446,718	9.32%	19,390
2,446,718	2,842,507	9.32%	20,540
2,842,507	2,822,822	9.32%	22,000
2,822,822	2,840,038	9.32%	21,991
2,840,038	2,913,022	9.32%	22,342
2,913,022	3,026,498	9.32%	23,066
			$ 129,329
3,026,498	3,365,347	8.89%	23,677
3,365,347	3,384,628	8.89%	25,004
3,384,628	3,404,702	8.89%	25,149
3,404,702	3,460,856	8.89%	25,432
3,460,856	4,798,893	8.89%	30,599
4,798,893	5,021,402	8.89%	36,378
5,021,402	5,596,120	8.81%	38,978
5,596,120	5,711,152	8.81%	41,510
5,711,152	6,165,336	8.81%	43,600
6,165,336	6,162,217	8.81%	45,255
6,162,217	6,150,219	8.81%	45,200

6,150,219	6,428,879	8.81%	46,179
			$ 426,961
6,428,879	6,438,599	8.66%	46,431
6,438,599	6,429,925	8.66%	46,434
6,429,925	6,417,339	8.66%	46,357
6,417,339	6,394,816	8.66%	46,229
6,394,816	6,379,786	8.66%	46,095
6,379,786	6,364,756	8.66%	45,986
6,364,756	6,349,726	8.66%	45,878
6,349,726	6,334,696	8.66%	45,770
6,334,696	6,319,666	8.66%	45,661
6,319,666	6,304,636	8.66%	45,553
6,304,636	6,289,606	8.66%	45,444
6,289,606	6,274,576	8.66%	45,335
			$ 551,173
6,274,576	6,259,546	8.66%	45,227
6,259,546	6,244,516	8.66%	45,118
6,244,516	6,229,486	8.66%	45,011
6,229,486	6,214,456	8.66%	44,901
6,214,456	6,199,426	8.66%	44,794
6,199,426	6,184,396	8.66%	44,683
6,184,396	6,169,366	8.66%	44,576
6,169,366	6,154,336	8.66%	44,467
6,154,336	6,139,306	8.66%	44,360
6,139,306	6,124,276	8.66%	44,252
6,124,276	6,109,246	8.66%	44,143
6,109,246	6,094,216	8.66%	44,035
			$ 535,567
6,094,216	6,079,186	8.84%	44,839
6,079,186	6,064,156	8.84%	44,727
6,064,156	6,049,126	8.84%	44,617
6,049,126	6,034,096	8.84%	44,506
6,034,096	6,019,066	8.84%	44,394
6,019,066	6,004,036	8.84%	44,285
6,004,036	5,989,006	8.84%	44,174
5,989,006	5,973,976	8.84%	44,063
5,973,976	5,958,946	8.84%	43,953
5,958,946	5,943,916	8.84%	43,842
5,943,916	5,928,886	8.84%	43,731
5,928,886	5,913,856	8.84%	43,622
			$ 530,753
5,913,856	5,898,826	8.84%	43,509
5,898,826	5,883,796	8.84%	43,398

5,883,796	5,868,766	8.84%		43,289
5,868,766	5,853,736	8.84%		43,177
5,853,736	5,838,706	8.84%		43,065
5,838,706	5,823,676	8.84%		42,956
5,823,676	5,808,646	8.84%		42,845
5,808,646	5,793,616	8.84%		42,733
5,793,616	5,778,586	8.84%		42,625
5,778,586	5,763,556	8.84%		42,514
5,763,556	5,748,526	8.84%		42,402
5,748,526	5,733,496	8.84%		42,292
			$	514,805

Indiana Michigan Power Company
Electric Energy Consumption Optimization (EECO) F

Carrying Costs and Depreciation Expense Calcula

Forecasted 2018 through 2019

Summary of Accounts 353, 362, 364, 365, 368, 39

	(1)	(2)	(3)	(4)	(5)	(6)
Month	Beginning Balance - EPIS	Ending Balance - EPIS	Annual Depreciation Rate	Beginning Balance - Accumulated Depreciation	Monthly Depreciation Expense	Ending Balance - Accumulated Depreciation Col (4) + Col (5)
Jan 2014	$ -	$ -		$ -	$ -	$ -
Feb 2014	0	0		0	0	0
Mar 2014	0	0		0	0	0
Apr 2014	0	0		0	0	0
May 2014	0	0		0	0	0
Jun 2014	0	0		0	0	0
Jan 2014 - Jun 2014					$ -	
Jul 2014	0	0		0	0	0
Aug 2014	0	0		0	0	0
Sep 2014	0	0		0	0	0
Oct 2014	0	0		0	0	0
Nov 2014	0	0		0	0	0
Dec 2014	0	0		0	0	0
Total Jul 2014 - Dec 2014					$ -	
Jan 2015	0	0		0	0	0
Feb 2015	0	0		0	0	0
Mar 2015	0	0		0	0	0
Apr 2015	0	0		0	0	0
May 2015	0	0		0	0	0
Jun 2015	0	0		0	0	0
Jul 2015	0	0		0	0	0
Aug 2015	0	0		0	0	0
Sep 2015	0	0		0	0	0
Oct 2015	0	0		0	0	0
Nov 2015	0	0		0	0	0

Dec 2015	0	0	0	0	0
Total Jan 2015 - Dec 2015				0	
Jan 2016	0	0	0	0	0
Feb 2016	0	0	0	0	0
Mar 2016	0	0	0	0	0
Apr 2016	0	0	0	0	0
May 2016	0	0	0	0	0
Jun 2016	0	0	0	0	0
Jul 2016	0	0	0	0	0
Aug 2016	0	0	0	0	0
Sep 2016	0	0	0	0	0
Oct 2016	0	0	0	0	0
Nov 2016	0	0	0	0	0
Dec 2016	0	0	0	0	0
Total Jan 2016 - Dec 2016				0	
Jan 2017	0	0	0	0	0
Feb 2017	0	0	0	0	0
Mar 2017	0	0	0	0	0
Apr 2017	0	0	0	0	0
May 2017	0	0	0	0	0
Jun 2017	0	0	0	0	0
Jul 2017	0	0	0	0	0
Aug 2017	0	0	0	0	0
Sep 2017	0	0	0	0	0
Oct 2017	0	0	0	0	0
Nov 2017	0	0	0	0	0
Dec 2017	0	0	0	0	0
Total Jan 2017 - Dec 2017				0	
Jan 2018	0	0	0	0	0
Feb 2018	0	4,501,665	0	0	0
Mar 2018	4,501,665	4,501,665	0	10,293	10,293
Apr 2018	4,501,665	4,501,665	10,293	10,293	20,586
May 2018	4,501,665	4,501,665	20,586	10,293	30,879
Jun 2018	4,501,665	4,501,665	30,879	10,293	41,172
Jul 2018	4,501,665	4,501,665	41,172	10,293	51,465
Aug 2018	4,501,665	4,501,665	51,465	10,293	61,758
Sep 2018	4,501,665	4,501,665	61,758	10,293	72,051
Oct 2018	4,501,665	4,501,665	72,051	10,293	82,344
Nov 2018	4,501,665	4,501,665	82,344	10,293	92,637
Dec 2018	4,501,665	4,501,665	92,637	10,293	102,930
Total Jan 2018 - Dec 2018				102,930	
Jan 2019	4,501,665	4,501,665	102,930	10,293	113,223
Feb 2019	4,501,665	4,501,665	113,223	10,293	123,516

Mar 2019	4,501,665	4,501,665	123,516	10,293	133,809
Apr 2019	4,501,665	4,501,665	133,809	10,293	144,102
May 2019	4,501,665	9,587,655	144,102	10,293	154,395
Jun 2019	9,587,655	9,587,655	154,395	21,922	176,317
Jul 2019	9,587,655	9,587,655	176,317	21,922	198,239
Aug 2019	9,587,655	9,587,655	198,239	21,922	220,161
Sep 2019	9,587,655	9,587,655	220,161	21,922	242,083
Oct 2019	9,587,655	9,587,655	242,083	21,922	264,005
Nov 2019	9,587,655	9,587,655	264,005	21,922	285,927
Dec 2019	9,587,655	9,587,655	285,927	21,922	307,849
Total Jan 2019 - Dec 2019				204,919	

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(7)	(8)	(9)	(10)
Beginning Balance - Total Plant in Service Balance Eligible for Carrying Costs	Ending Balance - Total Plant in Service Balance Eligible for Carrying Costs	Annual WACC Rate	Monthly Carrying Costs Avg Col (7)&(8) x Col (9) /12
$ -	$ -	9.42%	$ -
0	0	9.42%	0
0	0	9.42%	0
0	0	9.42%	0
0	0	9.42%	0
0	0	9.42%	0
			$ -
0	0	9.32%	0
0	0	9.32%	0
0	0	9.32%	0
0	0	9.32%	0
0	0	9.32%	0
0	0	9.32%	0
			$ -
0	0	8.89%	0
0	0	8.89%	0
0	0	8.89%	0
0	0	8.89%	0
0	0	8.89%	0
0	0	8.89%	0
0	0	8.81%	0
0	0	8.81%	0
0	0	8.81%	0
0	0	8.81%	0
0	0	8.81%	0

0	0	8.81%	0
			$ -
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
			$ -
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
0	0	8.66%	0
			$ -
0	0	8.84%	0
0	4,501,665	8.84%	16,583
4,501,665	4,491,372	8.84%	33,123
4,491,372	4,481,079	8.84%	33,048
4,481,079	4,470,786	8.84%	32,973
4,470,786	4,460,493	8.84%	32,897
4,460,493	4,450,200	8.84%	32,821
4,450,200	4,439,907	8.84%	32,745
4,439,907	4,429,614	8.84%	32,670
4,429,614	4,419,321	8.84%	32,595
4,419,321	4,409,028	8.84%	32,517
4,409,028	4,398,735	8.84%	32,442
			$ 344,414
4,398,735	4,388,442	8.84%	32,367
4,388,442	4,378,149	8.84%	32,290

4,378,149	4,367,856	8.84%		32,214
4,367,856	4,357,563	8.84%		32,138
4,357,563	9,150,865	8.84%		49,756
9,150,865	9,411,338	8.84%		68,371
9,411,338	9,389,416	8.84%		69,249
9,389,416	9,367,494	8.84%		69,090
9,367,494	9,345,572	8.84%		68,925
9,345,572	9,323,650	8.84%		68,765
9,323,650	9,301,728	8.84%		68,604
9,301,728	9,279,806	8.84%		68,442
			$	660,211

	9,279,806
Check	0

Forecast Year: 2015-2016 **Forecast Sea**

Planner: All **Operating Unit:** AEP-Indiana Michigan Power **D**

Name	Source Voltage (kV)	Nominal Voltage (kV)	Max Nm Plate Rt	Limit Cap. (MVA)	Limit Factor	Power Factor (%)	Unbal. Factor (%)
ADAMS (#0557) 2X	138.0	12.47	12.50	18.05	Winding	94.51	26.42
LINN GROVE (#21)		12.47		15.55	Ph Pk Up	84.48	13.83
VERA CRUZ (#22)		12.47		13.48	Ph Pk Up	97.28	38.74
ALBANY (#0976) 1X	34.5	12.47	9.38	12.06	Winding	0.00	7.55
ALBANY (#21)		12.47		12.10	Breaker	0.00	7.55
ALBION (#0527) 2X	69.0	12.47	10.50	11.04	Bus Reg	91.60	0.00
CITY (#21)		12.47		12.10	Breaker	91.62	0.00
ALEXANDRIA (#0977) 2X	34.5	12.47	22.40	25.06	Winding		
NORTH (#21)		12.47		12.10	Breaker		
ORESTES (#23)		12.47		12.10	Breaker		
SOUTH (#22)		12.47		12.10	Breaker		
ALEXANDRIA (#0977) 3X	34.5	4.16	6.25	7.68	Winding		
COMMERCIAL (#11)		4.16		3.60	OH Exit		
JOHNS MANVILLE (#13)		4.16		2.31	OH Exit		
ALMENA (#5700) 1X	69.0	34.50	20.00	24.44	Winding	94.41	3.87
MATTAWAN (#54)		34.50		29.88	Ph Pk Up	94.41	3.87
ALMENA (#5700) 2X	69.0	12.47	6.25	8.83	Winding	100.00	6.12
PAW PAW (#22)		12.47		8.64	Breaker	-97.53	2.37
RED ARROW (#21)		12.47		8.64	Breaker	99.95	11.43
ALMENA (#5700) 3X	69.0	34.50	30.00	33.32	Winding	-99.83	16.59
BLOOMINGDALE (#53)		34.50		28.68	Ph Pk Up	-98.82	13.67
GOBLES (#55)		34.50		28.68	Ph Pk Up	99.81	17.43
ANACONDA (#0978) 1X	34.5	4.16	6.00	8.37	Winding	90.80	0.00
ANCHOR HOCKING (#9212) 1X	69.0	2.40	5.00	7.89	Winding		
ANCHOR HOCKING (#9212) 2X	69.0	2.40	8.40	8.40	Winding		
ANCHOR HOCKING (#9212) 3X	69.0	12.47	22.40	25.29	Winding		
ISLAND (#21)		12.47		15.77	OH Exit	99.98	8.63
RACE (#22)		12.47		15.77	OH Exit	98.87	9.44
ANCH-HOCK (#9212) 1X 2X	69.0	2.40	0.00	16.10	Winding		
ANTHONY (#9105) 4X	34.5	12.47	9.38	12.96	Switching	97.72	4.63
MCMILLEN (#23)		12.47		15.77	OH Exit	97.72	4.63
ANTHONY (#9105) 6X	34.5	12.47	20.00	25.18	Winding	97.36	2.61
BOWSER (#22)		12.47		13.85	UG Exit	96.95	15.29
TOKHEIM (#24)		12.47		13.85	UG Exit	95.52	6.29

WABASH (#21)		12.47		13.85	UG Exit	96.97	2.23
WALLACE (#25)		12.47		13.85	UG Exit	98.54	3.68
ANTIVILLE (#9221) 1X	69.0	12.47	3.75	4.60	Bus Reg	96.81	0.00
ARMSTRONG CORK (#9299) 1X	69.0	4.16	10.50	12.06	Winding	98.11	0.00
ARMSTRONG CORK (#9299) 2X	69.0	4.16	9.40	10.39	Winding	99.92	0.00
ARMSTRONG CORK (#9299) 1X 2X	69.0	4.16	0.00	20.77	Winding		
ARNOLD HOGAN (#0530) 2X	138.0	12.47	22.40	26.42	Winding	98.06	6.77
BRINDLE ROAD (#23)		12.47		12.10	Breaker	97.14	8.17
CAMMACK (#22)		12.47		12.10	Breaker	97.89	11.11
MORRISON ROAD (#21)		12.47		12.10	Breaker	98.49	6.36
RIVER ROAD (#24)		12.47		12.10	Breaker	98.19	10.35
BANGOR (#0901) 1X	69.0	12.47	6.25	8.66	Winding		
INDUSTRIAL (#22)		12.47		12.10	Breaker		
TOWN (#21)		12.47		12.10	Ph Pk Up		
BARLEY (#9289) 1X	34.5	12.47	2.00	3.10	Winding		
BARODA (#0909) 1X	138.0	12.47	20.00	22.30	Winding		
BARODA (#21)		12.47		15.55	Ph Pk Up	-99.95	15.84
CLEVELAND (#23)		12.47		10.86	UG Exit	99.07	6.73
LIVINGSTON (#22)		12.47		15.55	Ph Pk Up	-99.98	10.40
BEECH ROAD (#9387) 1X	138.0	12.47	20.00	22.36	Winding		
BITTERSWEET (#23)		12.47		10.45	UG Exit	-97.66	43.64
DUNN (#21)		12.47		10.45	UG Exit	95.32	13.14
MCKINLEY (#22)		12.47		10.45	UG Exit	-99.62	29.40
BENDIX GS (#1732) 1X	34.5	4.16	1.50	1.67	Winding		
BENTON HARBOR WATER WORKS (#9176) 1X	34.5	4.16	1.00	1.11	Winding		
BERNE (#9232) 1X	69.0	12.47	20.00	24.44	Winding	0.00	4.65
HARRISON (#23)		12.47		15.77	OH Exit	0.00	7.61
PARR (#22)		12.47		15.77	OH Exit	0.00	5.00
SWISS (#24)		12.47		11.49	UG Exit	0.00	18.31
BERRIEN SPRING HYDRO (#0507) 5X	34.5	12.47	6.25	7.93	Winding		
BERRIEN SPRING HYDRO (#0507) 6X	34.5	12.47	6.25	7.93	Winding		
BERRIEN SPRING HYDRO (#0507) 5X 6X	34.5	12.47	12.50	15.86	Winding		
NORTH (#22)		12.47		15.77	OH Exit	0.00	10.60
SOUTH (#21)		12.47		15.77	OH Exit	0.00	0.67
BETHEL (#9301) 3X	34.5	12.47	10.50	13.23	Winding	0.00	2.44
BROOK (#21)		12.47		10.95	UG Exit	0.00	2.78
VILLAGE (#22)		12.47		11.97	UG Exit	0.00	10.20
BIG RUN (#5165) 1X	69.0	0.48	2.50	2.78	Winding		
BIXLER (#9380) 1X	138.0	12.47	20.00	22.01	Bus Reg	96.36	3.64
ALLEN CHAPEL (#22)		12.47		12.59	UG Exit	96.67	1.75
INDUSTRIAL (#21)		12.47		15.77	OH Exit	96.67	6.06

BLAINE STREET (#0980) 1X	34.5	12.47	20.00	23.18	Winding	100.00	13.13
GRANT STREET (#24)		12.47		13.85	UG Exit	-99.10	21.88
LUICK AVE (#21)		12.47		13.85	UG Exit	-99.29	10.39
NORTH (#25)		12.47		13.85	UG Exit	94.91	0.23
BLAINE STREET (#0980) 5X	34.5	12.47	9.38	10.83	Winding	94.90	18.33
HEEKIN PARK (#26)		12.47		12.10	Breaker	94.90	18.33
BLOOMINGDALE (#9700) 1X	34.5	7.20	2.50	3.20	Winding	0.00	24.14
7.2 KV DELTA (#21)		7.20		2.88	Other	0.00	24.14
BLUFF POINT (#9177) 2X	69.0	12.47	7.00	8.64	Winding		
JAY CO REMC (#31)		12.47		5.40	Other	0.00	1.23
RIDGEVILLE (#21)		12.47		5.55	OH Exit	0.00	1.23
BOHN ALUMINUM AND BASS CORP (#9241) 1X	69.0	4.16	5.00	6.23	Winding		
BOSMAN (#9323) 1X	34.5	12.47	9.38	12.72	Winding		
EATON (#21)		12.47		15.77	OH Exit	0.00	5.50
SHIDLER (#22)		12.47		11.66	Ph Pk Up		
BRIDGMAN (#9290) 1X	69.0	12.47	10.50	13.80	Winding	-89.24	4.75
MANLEY (#22)		12.47		11.45	OH Exit	-95.71	3.00
SAWYER (#23)		12.47		11.45	OH Exit	0.00	9.00
BRIDGMAN (#9290) 2X	69.0	12.47	10.50	12.99	Winding	0.00	0.10
BARODA (#21)		12.47		15.10	UG Exit	95.31	5.90
LAKE STREET (#24)		12.47		15.77	OH Exit	-96.27	9.90
BUCHANAN HYDRO (#0508) 1X	69.0	12.47	9.38	11.37	Winding	0.00	10.10
RIVER ROAD (#21)		12.47		8.64	Ph Pk Up	0.00	10.40
TOWN (#22)		12.47		10.37	Ph Pk Up	0.00	9.90
BUCHANAN SOUTH (#0968) 1X	69.0	12.47	22.40	27.17	Winding	-99.87	3.27
CLARK (#22)		12.47		15.77	OH Exit	98.93	22.63
SOUTH (#23)		12.47		11.45	OH Exit	96.87	2.19
TERRE COUPE (#21)		12.47		10.80	OH Exit	99.99	6.57
BUTLER (#0928) 1X	69.0	12.47	20.00	25.18	Winding	99.50	2.66
CITY (#21)		12.47		15.77	OH Exit	97.21	3.39
RURAL (#22)		12.47		14.73	UG Exit	96.83	4.11
WEST (#23)		12.47		15.77	OH Exit	99.42	12.69
CALVERT (#9371) 1X	138.0	12.47	20.00	22.22	Winding		
CAMERON (#9701) 1X	69.0	34.50	9.38	11.89	Winding	0.00	14.30
LAWTON (#51)		34.50		29.88	Ph Pk Up	0.00	14.30
CAPITAL AVE (#5307) 2X	138.0	12.47	20.00	21.80	Winding	92.49	7.00
CURRANT RD (#22)		12.47		15.77	OH Exit	92.22	19.77
PENN (#21)		12.47		15.77	OH Exit	92.81	9.64
CARROLL (#9109) 1X	34.5	12.47	1.50	1.90	Winding	0.00	12.50
CARROLL (#21)		12.47		2.16	Breaker	0.00	12.50
CASAD (#9110) 1X	34.5	4.60	0.44	0.49	Winding		
CEDAR (#9222) 1X	34.5	12.47	3.13	2.76	Bus Reg	0.00	42.11
CEDAR (#21)		12.47		5.18	Breaker	0.00	42.11

CHARLES (#9274) 1X	34.5	4.16	2.00	2.23	Winding		
CHURUBUSCO (#9111) 1X	34.5	12.47	10.50	11.93	Bus Reg	92.16	2.00
BLUE LAKE (#21)		12.47		12.10	Breaker	92.16	2.00
CLEVELAND (#9333) 1X	138.0	12.47	20.00	24.84	Winding	97.27	1.38
DISCOVERY (#23)		12.47		11.86	UG Exit	92.86	12.40
MEMORIAL (#22)		12.47		12.10	Breaker	98.68	4.18
PARK FOREST (#21)		12.47		11.86	UG Exit	98.66	6.90
CLIPPER (#5299) 1X	69.0	12.47	0.00	8.89	Winding		
CEDAR (#21)		12.47		11.66	Ph Pk Up		
GARRETT (#22)		12.47		11.66	Ph Pk Up		
COLBY (#5701) 2X	138.0	12.47	10.50	10.94	Winding	0.00	7.40
WEST (#21)		12.47		8.75	UG Exit	0.00	7.40
COLFAX (#9217) 4X	34.5	12.47	22.40	25.00	Other	98.11	1.89
NO 1 (#21)		12.47		10.80	OH Exit	99.98	9.46
NO 2 (#22)		12.47		12.10	Breaker	93.39	5.63
NO 3 (#23)		12.47		11.45	OH Exit	95.61	3.25
COLONY BAY (#9319) 1X	69.0	12.47	22.40	25.92	Switching	99.40	0.90
COPPER HILL (#26)		12.47		14.73	UG Exit	96.79	8.14
DICKE (#22)		12.47		14.73	UG Exit	-99.93	14.24
GETZ (#24)		12.47		14.73	UG Exit	98.08	7.33
COLONY BAY (#9319) 2X	69.0	12.47	20.00	23.78	Winding	99.05	2.35
COLONY (#21)		12.47		14.73	UG Exit	99.56	2.89
INVERNESS (#23)		12.47		12.59	UG Exit	97.67	4.43
MEDICAL PARK (#25)		12.47		14.73	UG Exit	99.76	7.61
CONANT (#9309) 1X	34.5	12.47	22.40	26.20	Winding	0.00	3.36
NO 1 (#21)		12.47		12.10	Breaker	0.00	1.89
NO 2 (#22)		12.47		15.10	UG Exit	0.00	2.70
NO 3 (#23)		12.47		12.10	Breaker	0.00	7.81
CONCORD (#0506) 2X	138.0	12.47	22.40	23.00	Other	98.16	4.60
NO 1 (#21)		12.47		15.77	OH Exit	99.99	4.22
NO 2 (#22)		12.47		15.77	OH Exit	96.81	17.06
NO 3 (#23)		12.47		11.45	OH Exit	94.27	6.92
CONCORD (#0506) 3X	138.0	12.47	22.40	22.40	Other	-100.00	3.95
NO 4 (#24)		12.47		12.10	Breaker	99.97	11.14
NO 5 (#25)		12.47		11.86	UG Exit	-97.88	33.04
NO 6 (#26)		12.47		15.10	UG Exit	99.98	3.80
CONSTANTINE (#5702) 1X	2.4	12.47	3.00	3.67	Winding		
COOK PLANT (#5122) 10X	69.0	12.47	10.00	9.85	UG Cable		
CHILLER (#22)		12.47		9.85	UG Exit		
COOK PLANT (#5122) 7X	69.0	12.47	6.25	7.08	Winding		
SIMULATOR (#21)		12.47		8.14	UG Exit		
COUNTRYSIDE (#5281) 1X	138.0	12.47	0.00	25.81	Bus Reg	99.55	6.09
BENT OAK (#22)		12.47		15.77	OH Exit	-99.92	35.94
HOMESTEAD (#21)		12.47		15.77	OH Exit	99.32	7.02
JIMTOWN (#23)		12.47		15.77	OH Exit	98.28	7.26
COUNTY LINE (#9219) 1X	138.0	12.47	22.40	25.61	Winding	0.00	47.10

LEO (#21)		12.47		11.45	OH Exit	0.00	35.28
TONKEL (#22)		12.47		11.45	OH Exit	0.00	5.49
COUNTYROAD 4 (#0514) 1X	138.0	12.47	20.00	23.40	Winding	99.43	8.75
AIRPORT (#23)		12.47		15.64	UG Exit	99.94	7.67
GARVER LAKE (#22)		12.47		15.64	UG Exit	96.79	4.97
SIMONTON LAKE (#21)		12.47		15.55	Ph Pk Up	-99.16	9.00
COVERT (#9292) 1X	69.0	12.47	9.38	11.52	Winding	0.00	15.70
12KV (#21)		12.47		11.45	OH Exit	0.00	15.70
CROSS STREET (#9325) 1X	138.0	12.47	22.40	27.67	Winding		
CHESTERFIELD (#21)		12.47		15.03	Ph Pk Up	0.00	6.81
MOONVILLE (#22)		12.47		15.77	OH Exit		
WEST (#23)		12.47		15.55	Ph Pk Up		
CRYSTAL (#9280) 1X	138.0	12.47	22.40	25.43	Winding	0.00	3.13
COLOMA TIE (#21)		12.47		15.77	OH Exit	-98.05	10.48
LAKE MICHIGAN COLLEGE (#23)		12.47		15.77	OH Exit	94.55	4.85
MERCY HOSPITAL (#22)		12.47		15.77	OH Exit	-99.27	7.38
DALEVILLE (#9279) 1X	138.0	12.47	22.40	25.60	Winding	0.00	13.89
DALEVILLE (#21)		12.47		11.45	OH Exit	0.00	1.59
EAST (#23)		12.47		12.96	Ph Pk Up	0.00	23.16
YORKTOWN (#22)		12.47		14.26	Ph Pk Up	0.00	26.29
DARDEN ROAD (#9228) 1X	138.0	12.47	22.40	25.85	Winding	94.12	8.91
DOUGLAS (#21)		12.47		11.45	OH Exit	94.74	9.32
LILAC (#22)		12.47		11.45	OH Exit	92.84	17.33
DARDEN ROAD (#9228) 2X	138.0	12.47	20.00	23.45	Winding	97.91	4.32
AUTEN ROAD (#24)		12.47		15.64	UG Exit	93.44	15.75
EAST (#26)		12.47		11.45	OH Exit	97.38	7.34
NORTH (#25)		12.47		15.64	UG Exit	99.74	11.06
DECATUR (#9264) 1X	69.0	12.47	20.00	23.89	Winding	0.00	5.19
KRICK (#21)		12.47		13.85	UG Exit	0.00	8.00
ROOT (#22)		12.47		10.80	OH Exit	0.00	50.58
UNION (#23)		12.47		11.45	OH Exit	0.00	6.86
DECATUR (#9264) 2X	69.0	4.16	6.25	5.51	Bus Reg	0.00	5.26
RESIDENTIAL & BUSINESS (#11)		4.16		3.60	OH Exit	0.00	41.18
WEST END (#12)		4.16		3.60	OH Exit	0.00	9.57
DEER CREEK (#0519) 4X	138.0	12.47	22.40	25.87	Bus Reg		
EAST (#22)		12.47		15.77	OH Exit		
NORTH (#23)		12.47		15.77	OH Exit	94.20	5.92
VA HOSPITAL SOUTH ALTERNATE (#49)		12.47		7.99	OH Exit		
WEST (#21)		12.47		15.77	OH Exit	-99.84	3.17
DEER CREEK (#0519) 6X	34.5	12.47	3.75	4.20	Bus Reg	80.02	0.00
VA HOSPITAL NORTH PREFERRED (#48)		12.47		8.86	OH Exit	80.02	0.00

DIEBOLD ROAD (#5303) 1X	69.0	12.47	20.00	23.67	Winding	95.37	9.52
MARTIN (#22)		12.47		14.73	UG Exit	95.33	20.00
MEDICAL CAMPUS (#23)		12.47		14.73	UG Exit	95.78	2.29
PLEASANT VALLEY (#21)		12.47		14.73	UG Exit	95.96	20.54
DOOVILLE (#5280) T1X	138.0	12.47	20.00	24.54	Winding	98.59	3.90
COMMERCE (#21)		12.47		13.67	UG Exit	96.34	2.91
FARRVILLE (#23)		12.47		13.67	UG Exit	-99.04	1.24
HANFIELD (#22)		12.47		13.67	UG Exit	-78.15	4.76
DREWRYS (#0969) 1X	34.5	12.47	9.38	12.17	Winding	99.00	5.48
DIAMOND (#22)		12.47		13.15	UG Exit	92.63	7.26
PORTAGE (#21)		12.47		13.15	UG Exit	98.62	8.13
DREWRYS (#0969) 2X	34.5	12.47	10.50	12.68	Winding	-99.97	8.49
BROOKFIELD (#23)		12.47		13.15	UG Exit	93.26	3.71
WILBER (#24)		12.47		15.77	OH Exit	93.46	6.80
DUNLAP (#9327) 1X	138.0	12.47	22.40	25.89	Winding	0.00	55.20
NO 1 (#21)		12.47		12.10	Breaker	0.00	3.80
NO 2 (#22)		12.47		12.10	Breaker	0.00	18.20
NO 3 (#23)		12.47		12.10	Breaker	0.00	11.10
DUNLAP (#9327) 3X	138.0	12.47	20.00	24.54	Winding		
NO 4 (#24)		12.47		13.85	UG Exit	0.00	5.70
RIVER MANOR (#25)		12.47		15.64	UG Exit	0.00	12.80
EAST SIDE (#0931) 1X	138.0	12.47	25.00	29.90	Winding	-99.74	1.00
HASTINGS (#25)		12.47		10.80	OH Exit	-95.30	3.40
IUSB (#26)		12.47		11.45	OH Exit	99.99	7.60
WILSON (#24)		12.47		14.06	UG Exit	99.77	1.10
EAST SIDE (#0931) 2X	138.0	12.47	22.40	25.16	Winding	-100.00	4.90
ADAMS (#23)		12.47		10.80	OH Exit	-87.92	3.20
IRONWOOD (#22)		12.47		10.80	OH Exit	-99.41	8.02
PARK JEFF (#21)		12.47		14.06	UG Exit	-99.51	2.81
EAST WATERVLIET (#5317) 1X	138.0	12.47	20.00	25.10	Winding	99.75	16.17
COUNTY LINE (#22)		12.47		16.55	OH Exit	99.99	15.89
PANTHER (#21)		12.47		16.55	OH Exit	99.76	16.19
EAU CLAIRE (#0906) 1X	34.5	12.47	5.31	6.89	Winding	0.00	8.25
12KV (#21)		12.47		12.96	Ph Pk Up	0.00	8.25
EGE (#9347) 1X	138.0	12.47	5.00	5.99	Bus Reg	0.00	10.38
EIGHTH STREET (#0907) 1X	34.5	4.16	8.50	9.17	Bus Reg		
NO 3 (#11)		4.16		5.19	Ph Pk Up		
NO 4 (#12)		4.16		5.19	Ph Pk Up	0.00	50.00
NO 6 (#13)		4.16		5.26	OH Exit	0.00	50.00
ELCONA (#9381) 1X	138.0	12.47	22.40	24.30	Winding	99.98	3.47
COUNTRY CLUB (#23)		12.47		15.64	UG Exit	99.88	3.32
NO 1 (#21)		12.47		11.86	UG Exit	93.85	4.50
NO 2 (#22)		12.47		11.86	UG Exit	99.08	3.67
ELKHART HYDRO (#0512) 1X	34.5	4.16	9.38	9.38	Winding		

ELKHART HYDRO (#0512) 2X	34.5	4.16	8.50	8.50	Winding		
ELKHART HYDRO (#0512) 3X	34.5	12.47	9.38	11.53	Winding	0.00	0.89
NO 1 (#21)		12.47		12.96	Ph Pk Up	0.00	3.46
NO 2 (#22)		12.47		12.96	Ph Pk Up	0.00	3.81
ELKHART HYDRO (#0512) 34 busX	34.5	34.50	0.00	30.00	Winding		
NETWORK #1 (#51)		34.50		10.76	Ph Pk Up		
NETWORK #2 (#52)		34.50		10.76	Ph Pk Up		
ELKHARTHY (#0512) 1X 2X	34.5	4.16	20.20	17.00	Winding		
NETWORK #3 (#15)		4.16		2.49	UG Exit		
NETWORK #4 (#14)		4.16		2.49	UG Exit		
NO 9 (#19)		4.16		4.32	Ph Pk Up		
ELLISON ROAD (#1007) 1X	138.0	12.47	20.00	24.91	Winding	96.06	3.69
ABOITE (#21)		12.47		14.73	UG Exit	99.16	2.58
EAGLE MARSH (#23)		12.47		14.73	UG Exit	94.58	1.73
ELMRIDGE (#0984) 1X	34.5	12.47	9.38	12.09	Winding	98.21	2.65
BRINDLE ROAD (#23)		12.47		10.95	UG Exit	94.54	62.77
HINES ROAD (#22)		12.47		12.96	Breaker	96.32	1.37
SEWAGE PLANT (#24)		12.47		15.55	Ph Pk Up	-93.03	3.05
ELWOOD (#0985) 1X	34.5	12.47	9.38	11.16	Winding	99.05	7.86
COMMERCIAL (#22)		12.47		12.10	Breaker	93.37	3.07
EAST (#21)		12.47		12.96	Breaker	96.47	8.92
ELWOOD (#0985) 2X	34.5	12.47	9.38	11.94	Winding	99.45	3.80
LEISURE (#23)		12.47		11.45	OH Exit	99.51	3.99
FAIRMOUNT (#0986) 1X	34.5	12.47	10.50	11.84	Winding		
FOWLERTON (#22)		12.47		10.37	Ph Pk Up	0.00	10.91
WEST 8TH STREET (#21)		12.47		12.96	Ph Pk Up	0.00	11.21
FARMLAND (#9273) 1X	69.0	12.47	20.00	20.00	Winding		
BEARS (#23)		12.47		13.67	UG Exit		
WILDCAT (#22)		12.47		13.67	UG Exit		
FERGUSON (#9116) 1X	69.0	12.47	22.40	25.92	Switching	99.84	3.45
AIRPORT DRIVE (#23)		12.47		12.59	UG Exit	99.88	1.94
BAERFIELD (#21)		12.47		15.77	OH Exit	99.14	3.17
BROOKWOOD (#22)		12.47		12.10	Breaker	100.00	6.51
FISHER BODY (#9248) 1X	138.0	13.80	50.00	50.00	Winding		
FISHER BODY (#9248) 2X	138.0	13.80	50.00	50.00	Winding		
FISHER BODY (#9248) 1X 2X	0.0	0.00	0.00	100.00	Winding		
FLORENCE ROAD (#9706) 1X	69.0	12.47	20.00	23.63	Winding	91.88	3.85
INDUSTRIAL PARK (#22)		12.47		12.10	Breaker	81.25	2.99
RACE BANK (#21)		12.47		12.10	Breaker	99.77	6.48
VILLAGE (#23)		12.47		11.45	OH Exit	89.99	4.41
FULTON (#9244) 1X	34.5	12.47	20.00	24.38	Winding	99.96	5.60
BLOOMINGDALE (#22)		12.47		15.77	OH Exit	-99.82	14.86

BROADWAY (#21)		12.47		13.61	Other	-99.56	2.66
EDSALL (#23)		12.47		15.77	OH Exit	95.52	1.96
GARRETT (#0564) 2X	34.5	12.47	0.75	1.03	Winding	0.00	15.01
WELLER (#21)		12.47		1.51	Breaker	0.00	15.07
GAS CITY (#9195) 1X	34.5	12.47	22.40	25.25	Winding	98.13	16.44
EAST (#24)		12.47		11.51	UG Exit	83.10	63.74
JONESBORO (#23)		12.47		12.10	Breaker	98.13	16.39
GASTON (#9209) 2X	138.0	12.47	20.00	22.50	Winding	99.90	11.96
GASTON (#21)		12.47		12.96	Ph Pk Up	-96.12	14.56
MATTHEWS (#22)		12.47		12.96	Ph Pk Up	97.57	11.01
WHEELING PIKE (#23)		12.47		12.96	Ph Pk Up	97.56	9.59
GERMAN (#9255) 1X	138.0	12.47	22.40	25.33	Winding	0.00	1.70
NO 1 (#21)		12.47		15.10	UG Exit	0.00	23.70
NO 2 (#22)		12.47		11.45	OH Exit	0.00	9.60
NO 6 (#26)		12.47		12.10	Breaker	0.00	7.70
GERMAN (#9255) 2X	138.0	12.47	25.00	30.02	Winding	0.00	2.70
NO 3 (#23)		12.47		10.74	UG Exit	0.00	2.20
NO 4 (#24)		12.47		10.74	UG Exit	0.00	3.20
NO 5 (#25)		12.47		15.10	UG Exit	0.00	3.90
GLENBROOK (#9296) 1X	34.5	12.47	20.00	24.81	Winding	83.82	28.89
LEY ROAD (#25)		12.47		14.73	UG Exit	99.03	10.20
NO 1 (#21)		12.47		9.57	UG Exit	54.55	70.36
NORTHROP (#26)		12.47		14.73	UG Exit	98.24	10.89
GLENBROOK (#9296) 2X	34.5	12.47	20.00	24.38	Winding	94.92	2.67
FERNHILL (#23)		12.47		14.73	UG Exit	97.01	9.94
NO 2 (#22)		12.47		9.72	UG Exit	-30.47	98.41
SPEEDWAY (#24)		12.47		13.85	UG Exit	98.76	15.52
GRABILL (#9352) 1X	138.0	12.47	22.40	28.08	Winding	98.70	3.10
PAGE (#22)		12.47		15.77	OH Exit	100.00	3.15
SHELLER (#21)		12.47		15.77	OH Exit	95.29	11.50
GRANGER (#9283) 1X	138.0	12.47	20.00	25.50	Other	-99.99	14.15
NO 1 (#21)		12.47		12.10	Breaker	97.01	7.02
NO 2 (#22)		12.47		12.10	Breaker	-99.80	20.13
NO 3 (#23)		12.47		11.45	OH Exit	92.31	1.59
GRANGER (#9283) 2X	138.0	12.47	0.00	25.50	Winding	98.87	0.79
NO 4 (#24)		12.47		12.59	UG Exit	97.96	7.05
NO 5 (#25)		12.47		12.59	UG Exit	-99.18	13.14
NO 6 (#26)		12.47		15.77	OH Exit	98.20	17.73
GRANT (#0552) 2X	138.0	12.47	20.00	23.67	Bus Reg	99.67	1.75
NORTH (#21)		12.47		12.10	Breaker	99.79	22.09
SOUTH (#23)		12.47		14.73	UG Exit	-99.81	6.09
SWEETSER (#22)		12.47		12.10	Breaker	-98.68	4.19
GRAVEL PIT (#0967) 1X	34.5	12.47	6.25	7.43	Winding		
NO 1 (#21)		12.47		15.55	Ph Pk Up	0.00	3.49
NO 2 (#22)		12.47		15.55	Ph Pk Up	0.00	18.80

GREENLEAF (#9261) 1X	34.5	12.47	20.00	23.85	Winding	0.00	1.50
EAST (#22)		12.47		11.51	UG Exit	95.49	3.46
NORTH (#21)		12.47		14.54	UG Exit	99.60	39.06
SOUTH (#23)		12.47		11.51	UG Exit	93.11	0.89
HACIENDA (#9335) 1X	138.0	12.47	20.00	22.98	Winding	99.89	8.02
ARLINGTON (#24)		12.47		14.73	UG Exit	98.27	2.51
GOEGLEIN (#21)		12.47		14.73	UG Exit	-100.00	16.53
MAPLEWOOD (#23)		12.47		14.73	UG Exit	-99.85	15.03
HACIENDA (#9335) 2X	138.0	12.47	28.00	27.49	Bus Reg	99.59	3.62
HARTFORD (#25)		12.47		14.73	UG Exit	99.24	2.95
SCHWARTZ (#27)		12.47		14.73	UG Exit	99.74	5.72
WHEELOCK (#26)		12.47		14.73	UG Exit	99.63	6.40
HADLEY (#9121) 1X	69.0	12.47	22.40	25.92	Switching	97.31	2.18
ARCOLA (#21)		12.47		15.77	OH Exit	0.00	2.94
FLAUGH (#22)		12.47		13.82	Ph Pk Up	0.00	1.89
SUTTON (#23)		12.47		13.67	UG Exit	0.00	2.00
HADLEY (#9121) 2X	69.0	12.47	20.00	24.74	Winding	98.47	0.27
BLAKE (#24)		12.47		13.85	UG Exit	94.09	2.06
HICKORY POINTE (#25)		12.47		13.28	UG Exit	-86.32	13.43
HAGAR (#9338) 1X	69.0	12.47	10.50	13.27	Winding	0.00	8.90
MICHIGAN BEACH (#21)		12.47		12.10	Breaker	0.00	8.00
RIVERSIDE (#22)		12.47		12.10	Breaker	0.00	9.46
HAMILTON (#0933) 1X	69.0	12.47	10.50	11.62	Winding	97.70	31.67
FACTORY (#22)		12.47		15.77	OH Exit	98.56	4.62
HAMILTON (#21)		12.47		12.10	Breaker	96.35	46.34
HARLAN (#9306) 1X	69.0	12.47	7.00	7.92	Winding	-99.81	10.22
NOTESTINE (#22)		12.47		14.26	Ph Pk Up	99.90	18.25
SPRINGFIELD (#21)		12.47		15.77	OH Exit	99.97	21.50
HARLAN (#9306) 2X	69.0	12.47	12.50	14.77	Bus Reg	-98.77	1.64
THIMLER (#23)		12.47		14.73	UG Exit	-99.39	3.19
HARPER (#9288) 1X	138.0	12.47	20.00	22.15	Winding	99.97	4.93
MINICH (#22)		12.47		15.77	OH Exit	99.94	11.79
TANGLEWOOD (#21)		12.47		15.77	OH Exit	99.83	7.72
HARRISON STREET (#9272) 1X	34.5	4.16	4.68	6.24	Winding	0.00	3.40
NO 2 (#12)		4.16		3.82	OH Exit	0.00	3.40
HARTFORD (#0570) 2X	69.0	12.47	10.50	13.54	Winding		
EAST (#21)		12.47		8.75	UG Exit	0.00	3.40
WEST (#22)		12.47		8.75	UG Exit	0.00	6.00
HARTFORD CITY (#0988) 2X	69.0	12.47	22.40	27.55	Winding		
CENTRAL (#21)		12.47		16.55	OH Exit	0.00	15.79
NORTH (#22)		12.47		12.10	Breaker		
SOUTH (#23)		12.47		18.01	OH Exit	0.00	28.38
HARVEST PARK (#9372) 1X	34.5	12.47	22.40	17.67	UG Cable	0.00	7.46
GLADIEUX (#21)		12.47		13.82	Ph Pk Up		
MAIN STREET (#22)		12.47		13.82	Ph Pk Up		

RAIL (#23)		12.47		7.99	OH Exit	0.00	8.25
HAWTHORNE (#6912) 1X	69.0	12.47	22.40	24.69	Winding	0.00	5.00
HILLTOP (#21)		12.47		12.96	Ph Pk Up	0.00	8.70
INDUSTRIAL (#22)		12.47		12.96	Ph Pk Up	0.00	7.34
SHOREHAM (#23)		12.47		12.96	Ph Pk Up	0.00	14.77
HAYMOND (#0989) 1X	34.5	12.47	20.00	23.14	Winding	-99.92	4.07
JEFFERSON (#23)		12.47		12.96	Ph Pk Up	97.93	14.72
RIVERSIDE (#21)		12.47		11.86	UG Exit	-99.92	7.40
WHITELY (#22)		12.47		10.80	OH Exit	99.84	4.81
HAYMOND (#0989) 2X	34.5	12.47	20.00	23.14	Winding	95.65	1.51
NETWORK #1 (#51)		12.47		25.92	Breaker	95.64	1.10
NETWORK #2 (#28)		12.47		25.92	Breaker	95.86	0.43
HICKORY CREEK (#0535) 2AX	34.5	12.47	10.50	13.01	Winding	0.00	6.25
HILLTOP (#22)		12.47		11.45	OH Exit	0.00	2.13
MEMORIAL (#23)		12.47		12.10	Breaker	0.00	6.90
HICKORY CREEK (#0535) 2BX	34.5	12.47	22.40	25.11	Winding	0.00	3.70
GLENLORD (#25)		12.47		13.82	Ph Pk Up	0.00	8.00
NELSON ROAD (#21)		12.47		12.96	Breaker	0.00	8.14
NILES (#24)		12.47		11.45	OH Exit	0.00	6.67
HILLCREST (#9297) 1X	138.0	12.47	22.40	25.92	Switching	-99.73	1.75
SOUTHTOWN #1 (#21)		12.47		12.14	UG Exit	-98.00	8.17
VENTURA (#24)		12.47		13.67	UG Exit	-99.19	4.27
WARFIELD (#25)		12.47		13.85	UG Exit	98.99	12.50
HILLCREST (#9297) 2X	138.0	12.47	22.40	25.37	Winding	99.17	0.00
DUNBAR (#23)		12.47		12.14	UG Exit	96.72	0.00
SOUTHTOWN #2 (#22)		12.47		12.14	UG Exit	96.19	3.00
HUMMEL CREEK (#0563) 2X	138.0	12.47	22.40	26.67	Winding		
SOUTH (#21)		12.47		14.73	UG Exit		
WEST (#22)		12.47		14.73	UG Exit		
ILLINOIS ROAD (#5107) 2X	138.0	12.47	20.00	24.25	Winding	97.51	2.49
CHESTNUT (#23)		12.47		14.73	UG Exit	93.39	8.27
COVINGTON (#21)		12.47		15.77	OH Exit	99.41	7.57
SCOTT (#22)		12.47		15.77	OH Exit	96.92	14.20
INDIANA-PURDUE UNIVERSITY (#9337) 1X	34.5	12.47	22.40	28.52	Winding	0.00	4.17
CANTERBURY #1 (#21)		12.47		11.34	UG Exit	0.00	9.44
CANTERBURY #3 (#23)		12.47		11.34	UG Exit	0.00	20.58
CHILLER #1 / IUPU #1 (#24)		12.47		12.96	Ph Pk Up		
MARKETPLACE (#20)		12.47		12.05	UG Exit	0.00	6.75
INDIANA-PURDUE UNIVERSITY (#9337) 2X	34.5	12.47	22.40	28.28	Winding	0.00	9.09

CANTERBURY #2 (#22)		12.47		11.34	UG Exit	0.00	30.98
CANTERBURY #4 (#28)		12.47		11.34	UG Exit	0.00	48.81
CHILLER #2 / IUPU #2 (#25)		12.47		11.34	UG Exit	0.00	1.83
COLLEGE PARK (#29)		12.47		11.34	UG Exit	0.00	8.13
INDIANA-PURDUE UNIVERSITY (#9337) 21X	12.5	4.16	5.00	5.56	Winding	84.40	0.00
INDIANA-PURDUE UNIVERSITY (#9337) 22X	12.5	4.16	2.50	2.78	Winding		
INDIAN LAKE (#0912) 1X	34.5	12.47	1.60	2.63	Winding		
12KV (#21)		12.47		4.32	Ph Pk Up		
INDUSTRIAL PARK (#0594) 2X	34.5	12.47	22.40	25.92	Switching	97.86	1.61
CENTENNIAL (#26)		12.47		14.73	UG Exit	98.93	3.37
HARRIS (#21)		12.47		12.10	Breaker	98.49	4.53
PROGRESS (#22)		12.47		12.10	Breaker	95.93	2.17
INDUSTRIAL PARK (#0594) 3X	138.0	12.47	22.40	24.85	Winding	-99.89	2.13
PRODUCTION (#24)		12.47		12.10	Ph Pk Up	-97.19	4.78
SUMMIT (#25)		12.47		10.65	UG Exit	-99.68	1.32
WELLS (#23)		12.47		10.65	UG Exit	-99.51	5.35
IRELAND ROAD (#9265) 1X	138.0	12.47	22.40	25.79	Winding	0.00	7.40
NO 1 (#21)		12.47		11.45	OH Exit	0.00	42.90
NO 2 (#22)		12.47		15.77	OH Exit	0.00	4.10
NO 3 (#23)		12.47		11.45	OH Exit	0.00	4.00
NO 4 (#24)		12.47		11.86	UG Exit	0.00	3.40
JACKSON ROAD (#0533) 2X	138.0	12.47	20.00	24.53	Winding	97.76	4.40
LAFAYETTE (#21)		12.47		15.64	UG Exit	95.56	3.71
SCOTTSDALE (#22)		12.47		10.74	UG Exit	96.97	2.41
SOUTH MAIN (#23)		12.47		10.74	UG Exit	94.48	6.23
JACKSON ROAD (#0533) 4X	138.0	12.47	20.00	24.34	Winding	96.13	3.98
MICHIGAN STREET (#24)		12.47		15.64	UG Exit	97.80	7.75
ROOSEVELT ROAD (#25)		12.47		12.59	UG Exit	98.78	7.62
JAY (#0543) 3X	138.0	12.47	9.38	11.74	Winding	0.00	4.08
MILLGROVE (#22)		12.47		12.10	Breaker	0.00	7.24
REDKEY (#21)		12.47		12.10	Breaker	0.00	3.47
JOBES (#9226) 1X	34.5	4.16	9.38	12.27	Winding		
CENTRAL COMMERCIAL (#12)		4.16		3.82	OH Exit	0.00	6.15
EAST COMMERCIAL (#11)		4.16		6.01	OH Exit	0.00	12.50
SOUTH (#14)		4.16		3.82	OH Exit	0.00	38.46
JONES CREEK (#5278) 1X	138.0	12.47	20.00	26.27	Winding	91.55	7.74
GREEN (#22)		12.47		14.73	UG Exit	-94.94	3.74
INDUSTRIAL PARK (#21)		12.47		14.73	UG Exit	84.26	13.28

KANKAKEE (#0546) 3X	138.0	12.47	22.40	25.62	Winding	-98.69	7.32
OLIVE (#22)		12.47		15.77	OH Exit	98.82	28.36
PRAIRIE (#23)		12.47		15.64	UG Exit	-98.73	3.41
SAMPLE (#21)		12.47		15.77	OH Exit	-99.65	5.41
KENDALLVILLE (#9254) 1X	69.0	12.47	9.38	12.83	Winding		
CENTRAL (#21)		12.47		11.45	OH Exit	0.00	8.18
PARK (#24)		12.47		11.45	OH Exit	0.00	27.78
KENDALLVILLE (#9254) 2X	69.0	12.47	10.50	11.86	Winding		
KRAFT FOOD (#22)		12.47		11.45	OH Exit	0.00	3.89
KRUEGER (#23)		12.47		11.45	OH Exit	0.00	6.86
KINGSLAND (#9316) 1X	69.0	12.47	4.69	5.51	Bus Reg		
TOCSIN (#21)		12.47		8.64	Breaker	0.00	7.91
UNIONDALE (#22)		12.47		8.64	Breaker	0.00	15.38
LAKEHEAD (#9328) 1X	69.0	4.16	7.50	8.33	Winding		
LAKESIDE (#0913) 1X	69.0	12.47	9.38	12.50	Winding	98.91	10.46
NEW TROY (#22)		12.47		10.80	Ph Pk Up	-99.86	13.28
UNION PIER (#21)		12.47		12.10	Breaker	96.89	7.08
LAKESIDE (#0913) 2X	69.0	12.47	9.38	12.57	Winding	97.58	43.88
HARBERT (#23)		12.47		12.94	UG Exit	99.10	15.04
MUSTANG (#24)		12.47		12.94	UG Exit	95.51	76.03
LANGLEYAVENUE (#0957) 1X	34.5	12.47	9.38	10.72	Winding		
PARK STREET (#22)		12.47		12.10	Breaker	0.00	33.33
SHIP STREET (#23)		12.47		10.80	OH Exit	0.00	12.50
LANGLEYAVENUE (#0957) 2X	34.5	12.47	9.38	11.00	Winding	0.00	5.29
PEARL STREET (#21)		12.47		11.02	UG Exit	0.00	5.29
LANTERN PARK (#1802) 1X	138.0	12.47	20.00	24.45	Bus Reg	99.56	6.42
EAST (#22)		12.47		12.59	UG Exit	-99.68	11.47
NEBO (#21)		12.47		12.59	UG Exit	99.84	12.25
PETTY ROAD (#23)		12.47		14.51	Ph Pk Up	97.23	11.41
LAPAZ (#0937) 1X	34.5	12.47	4.68	6.39	Winding	0.00	3.57
NO 1 (#21)		12.47		7.99	OH Exit	0.00	3.57
LAUD (#9188) 1X	34.5	12.47	6.25	5.99	Bus Reg	0.00	66.67
LAUD (#21)		12.47		5.40	OH Exit		
WHITLEY CO REMC (#31)		12.47		5.40	Ph Pk Up	0.00	66.67
LIBERTY CENTER (#9178) 1X	69.0	12.47	4.69	5.65	Winding	97.14	5.80
BARBER MILL (#21)		12.47		4.32	Ph Pk Up	98.98	0.00
PONETO (#22)		12.47		4.32	Ph Pk Up	94.90	0.00
LIGONIER (#0938) 1X	138.0	12.47	20.00	24.66	Winding	98.75	0.00
GERBER STREET (#23)		12.47		14.73	UG Exit	94.28	1.18
GRANT (#21)		12.47		10.80	OH Exit	99.38	8.74

KIMMELL (#22)		12.47		14.73	UG Exit	99.50	10.85
LIGONIER (#0938) 2X	138.0	12.47	9.38	11.45	Bus Reg	86.82	2.13
CAVIN STREET (#24)		12.47		14.73	UG Exit	86.82	2.13
LINCOLN (#0518) 3X	138.0	12.47	22.40	25.76	Winding	-99.23	2.17
HARTZELL (#21)		12.47		11.45	OH Exit	97.98	5.72
MAYSVILLE (#22)		12.47		15.77	OH Exit	-100.00	2.16
MOELLER (#23)		12.47		15.77	OH Exit		
PARROTT (#24)		12.47		15.77	OH Exit	96.46	2.66
LINWOOD (#9236) 1X	138.0	12.47	10.50	13.02	Winding		
FRANKTON (#22)		12.47		15.77	OH Exit		
LINWOOD (#21)		12.47		11.45	OH Exit		
LUSHER AVENUE (#0940) 2X	34.5	12.47	22.40	25.97	Winding	0.00	3.68
NO 1 (#21)		12.47		16.55	OH Exit	0.00	11.23
NO 2 (#22)		12.47		16.55	OH Exit	0.00	9.39
WOLF AVE (#23)		12.47		12.59	UG Exit	0.00	12.40
LYDICK (#0941) 1X	34.5	12.47	20.00	26.40	Winding	99.98	3.76
ARDMORE (#23)		12.47		13.61	Ph Pk Up	-93.70	9.98
COUNTRY CLUB (#21)		12.47		12.96	Ph Pk Up	95.70	3.61
TOWN (#22)		12.47		11.45	OH Exit	97.22	14.93
LYNN (#9281) 1X	69.0	12.47	7.00	8.86	Winding		
LYNN (#21)		12.47		12.96	Ph Pk Up	0.00	2.45
WHITE WATER REMC (#31)		12.47		11.45	OH Exit		
MADISON (#0522) 3X	34.5	12.47	6.25	7.97	Winding	0.00	12.41
MADISON (#21)		12.47		5.18	OH Exit	0.00	12.41
MAGLEY (#0593) 2X	69.0	12.47	10.50	8.87	Bus Reg	95.76	6.14
PREBLE (#21)		12.47		11.45	OH Exit	95.76	6.14
MAIN STREET (#0914) 1X	34.5	4.16	8.00	8.65	Switching	0.00	1.00
NO 1 NETWORK (#11)		4.16		4.04	Ph Pk Up		
NO 2 NETWORK (#12)		4.16		3.46	Ph Pk Up		
NO 5 (#15)		4.16		5.26	OH Exit		
NO 8 NETWORK (#18)		4.16		2.31	Ph Pk Up		
MAIN STREET (#0914) 4X	138.0	12.47	22.40	25.46	Winding	0.00	2.44
BRITAIN (#23)		12.47		11.45	OH Exit	0.00	20.00
EASTSIDE (#21)		12.47		11.69	UG Exit	0.00	9.09
RIVERVIEW (#22)		12.47		10.80	OH Exit	0.00	5.88
SEARS (#24)		12.47		11.45	OH Exit	0.00	11.90
MARATHON OIL (#9308) 1X	69.0	4.16	5.60	6.77	Winding	91.76	0.00
MARCELLUS (#9710) 1X	34.5	12.47	4.69	5.16	Winding	0.00	14.29
12KV (#21)		12.47		15.12	Ph Pk Up	0.00	14.29
MARION ETHANOL (#5284) 1X	34.5	4.16	10.50	8.25	Bus Reg	93.21	4.25
CO2 (#11)		4.16		4.20	UG Exit	95.82	4.67
ETHANOL (#12)		4.16		3.46	Ph Pk Up	81.17	1.07
MARION PLANT (#9230) 1X	34.5	12.47	22.40	25.98	Winding		
EAST (#22)		12.47		9.76	UG Exit		

HOSPITAL (#23)		12.47		9.76	UG Exit		
NORTH (#21)		12.47		9.76	UG Exit		
MARION PLANT (#9230) 2X	34.5	4.16	8.00	10.60	Winding		
COMMERCIAL (#11)		4.16		3.26	UG Exit		
SOUTH (#14)		4.16		3.26	UG Exit		
MAYFIELD (#9304) 1X	138.0	12.47	22.40	26.66	Winding	98.69	6.63
SELMA (#21)		12.47		12.10	Breaker	96.06	16.21
SPRINGWATER (#23)		12.47		12.10	Breaker	98.42	6.43
WATERWORKS (#22)		12.47		15.77	OH Exit	-99.42	9.69
MCCLURE (#9263) 1X	34.5	4.16	7.50	10.78	Winding		
EAST COMMERCIAL (#12)		4.16		3.82	OH Exit		
INDUSTRIAL (#11)		4.16		3.82	OH Exit		
WEST COMMERCIAL (#13)		4.16		3.82	OH Exit		
MCGALLIAR ROAD (#9189) 1X	34.5	12.47	20.00	24.35	Winding		
CHATEAU (#25)		12.47		12.10	Breaker	98.47	6.98
MALL (#24)		12.47		11.86	UG Exit		
WEST (#26)		12.47		11.86	UG Exit		
MCGALLIAR ROAD (#9189) 2X	34.5	12.47	9.38	11.81	Winding	99.88	10.16
MORNINGSIDE (#22)		12.47		11.86	UG Exit	98.47	6.98
WHEELING PIKE (#21)		12.47		12.10	Breaker	-95.13	26.48
MCKINLEY (#0559) 4X	138.0	12.47	22.40	25.38	Winding	0.00	18.09
ARDMORE (#21)		12.47		15.77	OH Exit	0.00	3.85
CONNETT (#26)		12.47		12.59	UG Exit	0.00	8.91
HALE (#22)		12.47		12.10	Breaker	0.00	22.73
MCKINLEY (#0559) 6X	138.0	12.47	20.00	23.02	Winding	0.00	4.35
ENGLE (#23)		12.47		15.77	OH Exit	0.00	16.13
PHENIE (#24)		12.47		13.85	UG Exit	0.00	14.29
TAYLOR (#25)		12.47		13.85	UG Exit	0.00	8.00
MIDDLEBURY (#9368) 1X	34.5	0.48	3.13	3.47	Winding		
MIER (#9277) 1X	138.0	12.47	10.50	14.39	Winding	98.60	22.42
SWAYZEE (#22)		12.47		11.45	OH Exit	97.37	20.87
SWEETSER (#21)		12.47		15.77	OH Exit	98.83	19.80
MILLER AVENUE (#9196) 1X	34.5	4.16	8.00	10.04	Winding		
NORTH (#14)		4.16		3.60	OH Exit		
SOUTH (#13)		4.16		3.60	OH Exit		
MISSISSINEWA (#5176) 1X	138.0	12.47	20.00	23.28	Winding	91.47	2.23
RACEWAY (#21)		12.47		15.55	Ph Pk Up	94.23	2.79
RIVER (#22)		12.47		15.55	Ph Pk Up	92.27	2.70
MOCK AVENUE (#9310) 1X	34.5	4.16	3.75	4.43	Bus Reg	0.00	7.73
FRANK FOUNDRIES (#11)		4.16		5.26	OH Exit	0.00	7.73
MODOC (#0523) 2X	69.0	12.47	7.00	5.80	Bus Reg		
MODOC (#21)		12.47		11.45	OH Exit		
MONROE (#9253) 1X	69.0	12.47	10.50	11.95	Bus Reg	0.00	3.23

JAY CO REMC (#31)		12.47		6.48	Ph Pk Up	100.00	0.00
MONROE (#21)		12.47		7.99	OH Exit	0.00	2.68
MONTPELIER (#0991) 1X	69.0	12.47	22.40	24.83	Winding		
EAST (#22)		12.47		11.45	OH Exit		
MONTPELIER (#21)		12.47		12.10	Breaker		
ROLL (#23)		12.47		12.10	Breaker		
MOORE PARK (#5751) 2X	138.0	12.47	20.00	24.20	Winding	98.19	4.59
PORTAGE (#23)		12.47		13.85	UG Exit	92.20	14.61
RAILROAD (#21)		12.47		16.55	OH Exit	99.27	20.15
ROCKY (#22)		12.47		16.55	OH Exit	98.39	10.11
MOTTVILLE (#5704) 1X	69.0	12.47	2.50	2.78	Winding	90.97	8.24
12KV (#21)		12.47		15.12	Ph Pk Up	90.97	8.24
MURCH (#9712) 1X	69.0	12.47	20.00	21.00	Other	0.00	6.15
LAKE CORA (#21)		12.47		15.77	OH Exit	0.00	17.73
NORTH (#23)		12.47		12.96	Ph Pk Up	0.00	61.25
VILLAGE (#22)		12.47		12.10	Breaker	0.00	5.50
MURRAY (#9133) 1X	69.0	12.47	4.69	4.10	Bus Reg	0.00	9.09
MURRAY (#21)		12.47		10.37	Ph Pk Up	0.00	9.09
NEW BUFFALO (#0917) 1X	69.0	12.47	20.00	23.62	Winding	99.81	7.38
BISON (#24)		12.47		15.77	OH Exit	99.63	3.71
CASINO (#23)		12.47		15.77	OH Exit	99.53	4.88
STATE LINE (#21)		12.47		15.77	OH Exit	-98.50	8.33
NEW BUFFALO (#0917) 2X	69.0	12.47	10.50	13.65	Winding	98.02	7.17
GRAND BEACH (#22)		12.47		15.10	UG Exit	98.02	7.07
NEW CARLISLE (#0502) 1X	34.5	12.47	9.38	12.90	Winding	0.00	4.60
NO 1 (#21)		12.47		12.10	Breaker	0.00	4.60
NICHOLSVILLE (#9713) 1X	34.5	12.47	1.50	2.33	Winding	0.00	6.67
12KV (#21)		12.47		15.12	Ph Pk Up	0.00	6.67
NICKERSON (#9356) 1X	138.0	12.47	20.00	24.77	Winding	0.00	2.30
MALL (#22)		12.47		12.10	Breaker	0.00	2.63
NAPIER (#21)		12.47		12.10	Breaker	0.00	15.40
NICKERSON (#23)		12.47		15.12	Ph Pk Up	0.00	2.01
NILES (#0927) 1X	69.0	12.47	20.00	23.75	Winding	99.20	5.14
EAST (#22)		12.47		15.77	OH Exit	99.82	12.95
NORTH (#23)		12.47		14.77	Ph Pk Up	97.88	3.71
SOUTH (#21)		12.47		15.55	Ph Pk Up	99.91	2.79
NILES (#0927) 2X	69.0	34.50	0.00	14.67	Winding	97.67	31.35
BERTRAND (#51)		34.50		25.81	Regulator	97.67	31.35
NOBLE (#9183) 1X	69.0	12.47	10.50	12.41	Winding	0.00	2.02
AVILLA (#21)		12.47		15.77	OH Exit	0.00	1.41
NOBLE CO REMC (#31)		12.47		6.48	Ph Pk Up	-95.05	0.00
NORTH KENDALLVILLE (#9318) 1X	69.0	12.47	22.40	25.92	Switching	0.00	9.35
HOSPITAL (#23)		12.47		13.20	UG Exit	0.00	5.39
PUBLIX (#21)		12.47		11.86	UG Exit	0.00	2.27
VILLAGE (#22)		12.47		12.40	UG Exit	0.00	2.07

NORTHLAND (#9334) 1X	138.0	12.47	22.40	23.50	Other	99.00	0.62
NO 1 (#21)		12.47		15.77	OH Exit	97.57	3.92
NO 2 (#22)		12.47		15.77	OH Exit	99.46	11.68
NO 3 (#23)		12.47		15.10	UG Exit	98.10	8.07
NORTHLAND (#9334) 2X	138.0	12.47	0.00	24.98	Winding	97.85	13.18
NO 4 (#24)		12.47		14.73	UG Exit	96.18	10.57
NO 5 (#25)		12.47		14.73	UG Exit	99.78	18.52
NO 6 (#26)		12.47		14.73	UG Exit	94.09	17.75
NORTH PORTLAND (#9320) 1X	69.0	12.47	20.00	25.06	Winding	0.00	5.74
FORGE (#23)		12.47		15.12	Ph Pk Up	0.00	0.33
NORTH (#21)		12.47		15.77	OH Exit	0.00	6.02
WEST (#22)		12.47		15.77	OH Exit	0.00	2.11
NORTHWEST (#0943) 1X	34.5	12.47	22.40	25.40	Winding	98.81	2.10
NO 1 (#21)		12.47		11.86	UG Exit	99.38	3.90
NO 2 (#26)		12.47		11.86	UG Exit	96.88	10.90
NO 3 (#27)		12.47		10.80	OH Exit	99.38	8.04
NORTHWEST (#0943) 2X	34.5	12.47	10.50	13.20	Winding	86.81	4.75
NO 4 (#28)		12.47		10.80	OH Exit	91.69	10.94
NO 5 (#22)		12.47		10.80	OH Exit	84.19	5.86
OHIO OIL (#0993) 1X	34.5	4.16	6.00	6.70	Winding	95.52	0.00
OLIVE (#0561) 4X	138.0	12.47	10.50	13.08	Winding	87.88	3.36
EAST (#21)		12.47		15.55	Ph Pk Up	87.88	3.43
WEST (#22)		12.47		12.59	UG Exit	94.59	0.00
OLIVER PLOW (#1023) 1X	138.0	12.47	25.00	25.00	Winding		
BISSELL (#22)		12.47		25.92	Breaker		
JAMES (#21)		12.47		25.92	Breaker		
ORONOKO (#9348) 1X	34.5	12.47	9.38	12.39	Winding	0.00	12.90
COLLEGE (#21)		12.47		13.82	Ph Pk Up	0.00	8.51
RED BUD (#22)		12.47		13.82	Ph Pk Up	0.00	17.39
OSOLO (#0580) 2X	138.0	12.47	22.40	26.14	Winding	98.86	12.15
NO 1 (#21)		12.47		15.77	OH Exit	99.55	18.64
NO 2 (#22)		12.47		15.77	OH Exit	97.67	15.16
NO 4 (#24)		12.47		15.64	UG Exit	98.70	16.42
OSOLO (#0580) 3X	138.0	12.47	20.00	22.80	Winding	97.67	9.47
NO 3 (#23)		12.47		12.10	Breaker	99.86	5.90
NO 5 (#25)		12.47		15.12	Ph Pk Up	91.26	45.48
NO 6 (#26)		12.47		15.77	OH Exit	95.03	11.78
OSSIAN (#9207) 1X	69.0	12.47	20.00	23.82	Bus Reg	99.78	4.32
BAKER (#24)		12.47		8.86	OH Exit	-99.33	9.09
LEFEVER (#22)		12.47		11.86	UG Exit	91.98	4.17
MILL (#23)		12.47		8.86	OH Exit	91.40	10.26
PARKWAY (#9367) 1X	34.5	12.47	4.69	4.69	Winding		
PARNELL (#9179) 1X	34.5	12.47	22.40	21.28	Other	100.00	1.93
COLISEUM (#21)		12.47		10.65	UG Exit	-98.21	3.66
NORTHCREST (#22)		12.47		9.78	UG Exit	98.72	6.61

UNIVERSITY (#23)		12.47		12.10	Breaker	99.95	7.47
PARNELL (#9179) 2X	34.5	12.47	20.00	24.27	Winding	98.65	9.43
SUMMERFIELD (#24)		12.47		11.45	OH Exit	98.73	10.60
VANCE (#25)		12.47		11.47	UG Exit	97.65	5.33
PEACOCK (#9321) 1X	34.5	12.47	4.69	5.58	Winding	0.00	3.28
SUMMITVILLE (#21)		12.47		10.37	Ph Pk Up	0.00	3.28
PEARL STREET (#9185) 1X	34.5	12.47	9.38	13.46	Winding	0.00	10.53
FAIRPLAIN SOUTH (#24)		12.47		11.45	OH Exit	0.00	16.34
PLAZA (#23)		12.47		15.10	UG Exit	0.00	7.18
PEARL STREET (#9185) 2X	34.5	12.47	9.38	11.29	Winding	0.00	10.00
FAIRPLAIN NORTH (#21)		12.47		11.45	OH Exit	0.00	11.04
MERCY HOSPITAL (#22)		12.47		15.77	OH Exit	0.00	16.81
PENNVILLE (#9269) 1X	138.0	12.47	7.50	6.05	Bus Reg		
JAY CO REMC (#22)		12.47		8.86	OH Exit		
PENNVILLE (#21)		12.47		11.45	OH Exit		
PETTIT AVENUE (#9172) 1X	34.5	12.47	20.00	23.47	Winding	0.00	4.82
BELMONT (#21)		12.47		12.96	Breaker	0.00	5.00
SEARS (#22)		12.47		12.33	UG Exit		
VERNON (#23)		12.47		12.33	UG Exit		
PHILIPS (#9331) 1X	69.0	0.48	2.50	2.78	Winding		
PIGEON RIVER (#9714) 1X	69.0	12.47	20.00	23.91	Winding	95.83	4.66
ELKHART STREET (#22)		12.47		15.77	OH Exit	91.28	13.49
PAPER COMPANY (#21)		12.47		15.77	OH Exit	99.22	2.92
PINE ROAD (#9386) 1X	138.0	12.47	20.00	23.26	Other	98.56	3.30
BLACKTHORN (#23)		12.47		15.64	UG Exit	98.56	3.30
LANDMARK (#22)		12.47		15.64	UG Exit	98.38	15.75
SOUTH (#21)		12.47		15.64	UG Exit	98.54	32.06
PIPE CREEK (#5290) 1X	138.0	12.47	20.00	23.67	Bus Reg	88.17	5.83
COLE (#23)		12.47		14.90	Ph Pk Up	97.55	13.89
CRUSHER (#22)		12.47		11.02	Ph Pk Up	73.70	2.06
PLEASANT (#9182) 1X	69.0	12.47	5.60	6.12	Bus Reg		
YODER (#21)		12.47		10.37	Ph Pk Up		
POE (#9112) 1X	34.5	12.47	6.28	8.29	Winding	0.00	12.50
HOAGLAND (#21)		12.47		4.32	Breaker	0.00	10.53
MAPLES (#22)		12.47		4.32	Ph Pk Up	0.00	60.91
MONMOUTH (#23)		12.47		3.24	Other	0.00	6.76
POKAGON (#0534) 1X	69.0	12.47	6.25	8.21	Winding	99.74	8.61
12KV (#21)		12.47		12.10	Ph Pk Up	99.74	8.55
PORTLAND (#9276) 1X	69.0	12.47	10.50	12.36	Winding		
PORTLAND (#9276) 2X	69.0	12.47	10.50	12.36	Winding		
PORTLAND (#9276) 1X 2X	69.0	12.47	0.00	24.72	Winding		
COMMERCIAL (#21)		12.47		11.45	OH Exit	0.00	3.52
EAST (#22)		12.47		15.77	OH Exit	0.00	11.72
SHELLER (#23)		12.47		15.77	OH Exit	0.00	7.58

PRICE (#5286) 1X	69.0	12.47	20.00	23.67	Bus Reg		
DISTILLER (#41)		12.47		14.26	Ph Pk Up		
HARRISVILLE (#21)		12.47		12.96	Ph Pk Up		
QUINN (#0936) 1X	34.5	12.47	9.38	10.42	Winding	97.17	18.02
LAKEVILLE (#21)		12.47		15.77	OH Exit	93.25	19.65
PLEASANT (#22)		12.47		15.77	OH Exit	-92.86	47.49
RANDOLPH (#0542) 1X	138.0	12.47	20.00	22.80	Winding		
COMMERCIAL (#24)		12.47		11.45	OH Exit		
INDUSTRIAL (#23)		12.47		12.10	Breaker		
RANDOLPH (#0542) 2X	138.0	12.47	22.40	30.03	Winding		
CHESTNUT (#21)		12.47		10.80	Ph Pk Up		
JACKSON PIKE (#22)		12.47		12.10	Breaker		
RANDOLPH (#0542) 3X	12.5	34.50	3.75	4.73	Winding		
SAWMILL (#41)		34.50		25.70	OH Exit		
REED (#9259) 1X	138.0	12.47	22.40	25.92	Switching	0.00	2.70
BOHDE (#23)		12.47		11.45	OH Exit	0.00	5.76
BROOKSIDE (#21)		12.47		11.86	UG Exit	0.00	4.49
PARKER (#24)		12.47		11.45	OH Exit	0.00	16.42
STELLHORN (#22)		12.47		11.86	UG Exit	0.00	12.50
RICKERMAN ROAD (#5316) 1X	138.0	12.47	9.38	13.10	Winding	98.02	4.53
GALIEN (#22)		12.47		16.55	OH Exit	98.07	4.65
SAWMILL (#21)		12.47		15.55	Ph Pk Up		
RIVERSIDE (#0558) 7X	138.0	12.47	20.00	24.71	Winding		
KLOCK PARK (#22)		12.47		10.86	UG Exit		
NORTH SHORE (#21)		12.47		10.86	UG Exit		
PAW PAW AVE (#23)		12.47		14.73	UG Exit	99.90	6.30
ROANOKE (#9206) 1X	34.5	12.47	2.88	3.87	Winding	0.00	8.43
ROANOKE (#21)		12.47		6.91	Ph Pk Up	0.00	8.43
ROBISON PARK (#0501) 3X	138.0	12.47	20.00	23.06	Winding	99.39	7.93
AUBURN ROAD (#25)		12.47		13.85	UG Exit	98.92	1.05
DUPONT (#23)		12.47		9.83	UG Exit	99.62	7.26
MAYHEW (#22)		12.47		9.83	UG Exit	99.90	39.57
ROBISON PARK (#0501) 6X	138.0	12.47	25.00	33.75	Winding	98.74	0.00
CONCORDIA (#21)		12.47		9.83	UG Exit		
MALLARD (#26)		12.47		8.36	UG Exit	99.37	9.64
PLAZA (#24)		12.47		13.67	UG Exit	92.16	8.30
ROCK CREEK (#0576) 1X	138.0	12.47	9.38	13.10	Winding		
BUCKEYE (#21)		12.47		7.34	OH Exit		
HEARTLAND REMC (#22)		12.47		13.67	UG Exit		
ROSEHILL (#9344) 1X	138.0	12.47	7.50	11.47	Winding		
ROSEHILL (#21)		12.47		12.10	Breaker		

ROYERTON (#0997) 1X	138.0	12.47	9.38	14.53	Winding	99.68	6.35
EDEN CHURCH (#21)		12.47		15.55	Ph Pk Up	99.89	4.90
RIGGINS (#22)		12.47		15.55	Ph Pk Up	99.34	6.39
SATURN (#5282) 1X	138.0	12.47	12.50	17.88	Winding	94.40	22.21
DUNFEE (#21)		12.47		12.96	Ph Pk Up	95.99	48.76
LAUD (#22)		12.47		12.96	Ph Pk Up	93.13	13.55
SAUK TRAIL (#9731) 1X	138.0	12.47	20.00	23.53	Winding	97.44	11.75
EAGLE LAKE (#21)		12.47		14.73	UG Exit	97.25	5.86
MOHAWK (#22)		12.47		16.55	OH Exit	97.35	27.62
SCHOOLCRAFT (#9715) 1X	69.0	12.47	22.40	24.09	Winding	0.00	1.30
SCHOOLCRAFT (#21)		12.47		15.64	UG Exit	0.00	7.80
SOUTH (#22)		12.47		15.64	UG Exit	0.00	1.70
SCOTTDALE (#0919) 1X	34.5	12.47	10.50	13.01	Winding	99.99	9.40
EAST (#21)		12.47		15.77	OH Exit	-98.49	28.76
WEST (#22)		12.47		15.77	OH Exit	99.93	1.93
SCOTTDALE (#0919) 2X	34.5	12.47	9.38	11.56	Winding	-99.08	13.26
OAKS (#23)		12.47		12.94	UG Exit	-98.78	11.39
SCOTT (#24)		12.47		12.94	UG Exit	-99.21	3.28
SELMA-PARKER (#0524) 1X	138.0	12.47	20.00	22.22	Winding		
PARKER (#22)		12.47		12.96	Ph Pk Up		
WAPAHANI (#21)		12.47		12.96	Ph Pk Up		
SHARON ROAD (#0981) 1X	34.5	12.47	2.50	3.36	Winding	0.00	16.48
DESOTO (#21)		12.47		3.78	OH Exit	0.00	16.48
SILVER LAKE (#9388) 1X	34.5	12.47	20.00	23.60	Winding	99.75	14.02
ROLLING PRARIE (#21)		12.47		11.51	UG Exit	-99.97	18.84
WIREKRAFT (#22)		12.47		11.51	UG Exit	98.71	9.24
SISTER LAKES (#9717) 1X	34.5	12.47	5.67	6.47	Winding	92.88	50.62
KEELER (#21)		12.47		5.79	Ph Pk Up	92.81	51.23
SISTER LAKES (#9717) 2X	34.5	12.47	9.38	11.26	Winding	-99.17	13.11
SISTER LAKES (#22)		12.47		8.64	Ph Pk Up	-99.32	13.20
SODUS (#9340) 1X	138.0	12.47	10.50	13.50	Winding	0.00	15.91
BAINBRIDGE (#22)		12.47		12.10	Ph Pk Up	0.00	35.98
SODUS (#21)		12.47		12.10	Ph Pk Up	0.00	42.50
SORENSON (#0550) 4X	138.0	12.47	9.38	11.00	Winding		
REDDING ROAD (#22)		12.47		11.66	Ph Pk Up		
VINE STREET (#21)		12.47		11.66	Ph Pk Up		
SOUTH BEND (#0503) 4X	138.0	12.47	20.00	23.44	Winding	-99.86	6.90
NO 1 (#21)		12.47		15.77	OH Exit	100.00	2.94
NO 2 (#22)		12.47		15.77	OH Exit	-99.99	19.13
NO 3 (#23)		12.47		15.10	UG Exit	-96.70	3.89
SOUTH BERNE (#9317) 1X	69.0	12.47	20.00	23.22	Bus Reg	98.19	6.27
FOREST PARK (#23)		12.47		15.77	OH Exit	99.86	18.58
GENEVA (#22)		12.47		15.77	OH Exit	97.82	5.69
JAY CO REMC (#31)		12.47		6.48	Ph Pk Up		
YAGER (#21)		12.47		11.45	OH Exit	94.18	11.15

SOUTH DECATUR (#9336) 1X	69.0	12.47	20.00	25.92	Switching	99.45	4.27
GAGE (#21)		12.47		12.10	Breaker	97.99	8.04
TYNDALL (#22)		12.47		12.10	Breaker	-95.27	17.20
SOUTH DECATUR (#9336) 2X	69.0	12.47	20.00	24.02	Bus Reg	99.57	3.10
PATTERSON (#23)		12.47		16.55	OH Exit	98.85	3.18
WEST (#24)		12.47		16.55	OH Exit	-99.87	0.55
SOUTH ELWOOD (#9303) 2X	138.0	12.47	22.40	25.59	Winding	99.94	4.59
COUNTRY CLUB (#22)		12.47		12.10	Breaker	-99.71	5.65
DUNDEE (#23)		12.47		15.55	Ph Pk Up	94.78	16.62
EXCELLO (#21)		12.47		12.10	Breaker	99.57	7.86
SOUTH SIDE (#0946) 1X	138.0	12.47	20.00	25.48	Winding		
SOUTH SIDE (#0999) 1X	34.5	12.47	20.00	22.48	Winding	98.16	4.85
COMMERCIAL (#21)		12.47		12.59	UG Exit	99.07	6.86
EAST (#23)		12.47		15.77	OH Exit	99.73	6.03
NO 1 (#21)		12.47		10.80	OH Exit		
NO 2 (#22)		12.47		10.80	OH Exit	0.00	8.10
NO 3 (#23)		12.47		10.80	OH Exit	0.00	5.50
NO 4 (#24)		12.47		11.86	UG Exit	0.00	4.30
NORTH (#22)		12.47		13.67	UG Exit	93.99	0.24
SOUTH SUMMITVILLE (#5291) 1X	34.5	12.47	20.00	22.01	Bus Reg	97.43	1.92
ETHANOL (#41)		12.47		12.59	UG Exit	97.43	1.92
SOYA (#9267) 1X	34.5	4.16	10.50	10.89	Winding	89.49	0.00
SPRING STREET (#9204) 1X	34.5	12.47	20.00	24.07	Winding	95.58	4.69
LEESBURG (#25)		12.47		15.77	OH Exit	87.95	5.77
TOWER (#21)		12.47		11.45	OH Exit	-98.94	3.85
TYLER (#23)		12.47		15.77	OH Exit	94.06	1.83
SPRING STREET (#9204) 2X	34.5	12.47	10.50	11.89	Winding	98.55	4.03
HIGHLAND (#22)		12.47		14.73	UG Exit	98.56	2.20
VIOLA (#24)		12.47		15.77	OH Exit	96.63	0.00
SPRINGVILLE (#9341) 1X	69.0	12.47	10.50	13.73	Winding	99.66	92.64
NEW BUFFALO (#22)		12.47		7.99	OH Exit	98.87	13.84
TOLL RD (#21)		12.47		11.66	Ph Pk Up	99.82	9.20
SPY RUN (#9233) 1X	138.0	12.47	22.40	27.26	Winding	96.99	7.05
DELAWARE (#23)		12.47		11.90	UG Exit	99.19	3.90
GOSHEN (#25)		12.47		13.20	UG Exit	94.27	9.29
RUMSEY (#24)		12.47		10.80	OH Exit	96.14	14.81
SPY RUN (#9233) 4X	34.5	12.47	20.00	22.01	Bus Reg	99.99	0.00
CENTLIVRE (#22)		12.47		12.10	Breaker	99.99	1.36
CRESCENT (#26)		12.47		12.96	Other		
THREE RIVERS (#21)		12.47		12.10	Breaker	100.00	12.81
STATE STREET (#9287) 1X	138.0	12.47	22.40	25.92	Switching	99.97	1.42
BRENTWOOD (#21)		12.47		14.84	UG Exit	100.00	3.61

LAHMEYER (#22)		12.47		14.84	UG Exit	99.93	2.17
TRIER (#23)		12.47		15.77	OH Exit	-98.04	2.69
STEVENSVILLE (#9293) 1X	69.0	12.47	10.50	11.57	Winding	98.72	8.47
EAST (#22)		12.47		12.10	Breaker	99.56	11.69
NORTH (#23)		12.47		12.10	Breaker	96.34	3.87
STEVENSVILLE (#9293) 2X	69.0	12.47	12.50	17.00	Winding	99.74	11.84
RED ARROW HIGHWAY (#24)		12.47		13.82	Ph Pk Up	99.82	10.26
SOUTH (#21)		12.47		12.10	Breaker	99.17	23.48
ST JOE (#0948) 1X	69.0	12.47	20.00	21.29	Winding	98.89	6.92
EAST (#23)		12.47		5.40	OH Exit	94.65	56.59
NEWVILLE (#24)		12.47		15.55	Ph Pk Up	90.83	100.00
WEST (#22)		12.47		11.45	OH Exit	99.93	8.45
ST MARYS COLLEGE (#9282) 1X	34.5	4.16	8.00	8.89	Winding		
STONE LAKE (#9718) 1X	69.0	12.47	9.38	12.55	Winding	99.65	9.55
DIAMOND (#22)		12.47		16.55	OH Exit	99.59	9.47
STONE LAKE (#9718) 2X	69.0	12.47	7.00	9.06	Winding	99.18	10.08
TOWN (#21)		12.47		15.77	OH Exit	99.14	10.03
STUBEY ROAD (#9729) 1X	69.0	12.47	9.38	13.02	Winding	0.00	4.29
WEST (#21)		12.47		10.80	Ph Pk Up	0.00	4.29
STUDEBAKER (#5533) 1X	138.0	13.80	30.00	30.00	Winding		
STUDEBAKER (#5533) 3X	138.0	13.80	30.00	30.00	Winding		
STUDEBAKER (#5533) 4X	138.0	12.47	20.00	24.02	Winding	95.37	1.52
HAWK (#29)		12.47		13.67	UG Exit	97.28	6.61
IGNITION (#01)		12.47		13.09	UG Exit	-99.80	4.55
LARK (#27)		12.47		13.67	UG Exit	96.51	8.44
ROADSTER (#28)		12.47		13.67	UG Exit	93.89	7.74
STUDEBAKER (#5533) 1X 3X	138.0	13.80	0.00	60.00	Winding		
NETWORK #1 (#21)		13.80		9.95	UG Exit		
NETWORK #2 (#22)		13.80		9.95	UG Exit		
NETWORK #3 (#23)		13.80		9.95	UG Exit		
NETWORK #5 (#25)		13.80		9.95	UG Exit		
NETWORK #6 (#26)		13.80		9.95	UG Exit		
SUMMIT (#9378) 1X	138.0	12.47	20.00	22.83	Winding	97.95	3.26
INNOVATION (#21)		12.47		13.85	UG Exit	94.32	1.87
LUDWIG (#22)		12.47		13.85	UG Exit	95.59	6.43
SALOMON (#23)		12.47		12.96	Other	99.57	3.73
SUMMIT (#9378) 2X	138.0	12.47	20.00	23.47	Bus Reg	98.08	1.33
CHALFANT (#24)		12.47		12.59	UG Exit	97.56	6.99
HUGUENARD (#25)		12.47		12.59	UG Exit	98.49	4.97
SWANSON (#9349) 1X	69.0	34.50	25.00	28.97	Winding	0.00	4.35
NO 1 (#51)		34.50		29.88	Ph Pk Up	0.00	2.33
NO 3 (#53)		34.50		35.14	Ph Pk Up	0.00	15.13
SWANSON (#9349) 2X	69.0	34.50	20.00	25.24	Winding	0.00	2.04
NO 2 (#52)		34.50		33.46	Ph Pk Up	0.00	2.04

THOMAS ROAD (#9816) 1X	69.0	12.47	20.00	24.74	Winding	96.82	3.54
APPLE GLEN (#21)		12.47		14.73	UG Exit	97.77	3.19
BEINEKE (#23)		12.47		14.73	UG Exit	95.21	19.63
PARKWEST (#22)		12.47		14.73	UG Exit	96.55	4.62
THREE M (#9300) 1X	69.0	4.16	12.50	16.32	Winding	91.47	0.00
3 M COMPANY (#10)		4.16		3.46	Regulator	99.56	0.00
VISY RECYCLE (#11)		4.16		10.11	Regulator	87.76	0.00
THREE OAKS (#0921) 1X	69.0	12.47	7.00	8.78	Winding	0.00	0.25
12KV (#21)		12.47		12.96	Ph Pk Up	0.00	0.25
THREE RIVERS (#9719) 1X	69.0	12.47	20.00	26.50	Winding	0.00	13.33
THREE RIVERS (#9811) 1X	34.5	2.40	5.00	6.41	Bus Reg		
COREY LAKE (#21)		12.47		10.11	UG Exit	0.00	13.33
STATE STREET (#22)		12.47		15.12	Ph Pk Up	0.00	13.33
WESTLAND (#23)		12.47		13.82	Ph Pk Up	0.00	13.33
THREE RIVERS (#9811) 2X	34.5	13.80	0.00	13.20	Winding		
THREE RIVERS (#9811) 3X	34.5	13.80	0.00	13.20	Winding		
THREE RIVERS (#9811) 4X	34.5	4.16	4.69	5.93	Winding		
THREE RIVERS (#9811) 2X 3X	34.5	13.80	0.00	26.40	Winding		
NETWORK #10 (#22)		13.80		9.94	UG Exit		
NETWORK #11 (#23)		13.80		9.94	UG Exit		
NETWORK #9 (#21)		13.80		9.94	UG Exit		
TILLMAN (#0551) 2X	138.0	12.47	12.50	16.92	Winding	99.03	0.46
PAULDING PUTNAM (REMC) (#31)		12.47		8.64	Other		
TOWNLEY (#21)		12.47		13.85	UG Exit	-99.63	6.40
ZULU (#22)		12.47		13.85	UG Exit	95.80	100.00
TILLOTSON (#9161) 2X	34.5	12.47	22.40	26.30	Winding	98.27	4.44
HOSPITAL (#23)		12.47		15.10	UG Exit	96.71	4.46
JACKSON (#22)		12.47		12.10	Breaker	98.81	8.13
WESTWOOD (#21)		12.47		12.10	Breaker	99.40	5.02
TORRINGTON (#0962) 1X	34.5	4.16	8.50	12.00	Winding	0.00	20.00
NO 1 (#11)		4.16		5.26	OH Exit		
NO 2 (#12)		4.16		5.26	OH Exit		
TRIER (#9364) 1X	138.0	12.47	20.00	24.40	Winding	-98.91	6.46
BUCKINGHAM (#21)		12.47		13.85	UG Exit	-88.66	4.30
WALDEN (#22)		12.47		13.85	UG Exit	-95.09	15.70
WEST (#23)		12.47		13.85	UG Exit	99.60	3.38
TRI-LAKES (#9224) 1X	69.0	12.47	3.75	4.74	Winding		
SHRINER (#21)		12.47		4.32	Breaker		
TWENTY-FIRST STREET (#9201) 1X	34.5	12.47	9.38	12.17	Winding	99.91	4.60
COWAN (#23)		12.47		11.45	OH Exit	99.85	2.71
WALNUT (#22)		12.47		15.77	OH Exit	100.00	18.10

TWENTY-FIRST STREET (#9201) 2X	34.5	12.47	9.38	12.03	Winding	99.47	28.66
ARCADIA (#24)		12.47		12.10	Breaker	93.45	14.64
HACKLEY (#21)		12.47		12.10	Breaker	-93.89	67.35
TWIN BRANCH (#0504) 1X	138.0	12.47	20.00	24.89	Winding	96.06	10.26
NO 1 (#21)		12.47		12.10	Breaker	97.32	19.17
NO 2 (#22)		12.47		11.45	OH Exit	89.96	5.78
NO 3 (#23)		12.47		11.45	OH Exit	99.39	1.09
UNIVERSAL TOOL AND STAMPING (#9205) 1X	69.0	0.48	0.50	0.56	Winding		
UPLAND (#9101) 1X	69.0	12.47	20.00	22.83	Winding		
NORTH (#21)		12.47		12.10	Breaker		
SOUTH (#22)		12.47		12.10	Breaker		
WEST (#23)		12.47		11.86	UG Exit	92.99	1.19
UP RIVER DAM (#9812) 3X	34.5	2.40	4.69	5.93	Winding		
UTICA (#9322) 1X	34.5	12.47	22.40	23.67	Bus Reg	99.24	6.45
FOREST PARK (#21)		12.47		13.85	UG Exit	99.18	16.28
NICHOLS (#24)		12.47		13.85	UG Exit	99.76	2.61
ROSS (#23)		12.47		13.85	UG Exit	98.40	7.28
UTICA (#9322) 2X	34.5	12.47	20.00	23.42	Winding	97.82	7.78
INDUSTRIAL PARK (#26)		12.47		13.85	UG Exit	93.77	5.04
MEADOWS (#22)		12.47		13.85	UG Exit	-99.76	11.20
MEMORIAL (#25)		12.47		13.85	UG Exit	94.43	43.60
VALLEY (#5705) 1X	138.0	34.50	50.00	56.00	Winding	0.00	9.09
VALLEY (#51)		34.50		12.21	Regulator	0.00	9.09
VAN BUREN (#0532) 1X	138.0	12.47	11.08	11.82	Bus Reg		
LANDESS (#21)		12.47		7.99	OH Exit		
VAN BUREN (#22)		12.47		12.10	Breaker		
VICKSBURG (#9721) 1X	69.0	12.47	9.38	12.00	Winding	88.67	23.37
WEST (#22)		12.47		15.77	OH Exit	88.67	23.41
VICKSBURG (#9721) 2X	69.0	12.47	20.00	23.66	Winding	99.98	25.73
EAST (#21)		12.47		12.96	Ph Pk Up	-98.84	15.00
RICHARDSON (#23)		12.47		12.59	UG Exit	99.10	32.35
WABASH AVENUE (#9200) 1X	69.0	12.47	20.00	23.26	Winding		
GILKEY (#23)		12.47		12.10	Breaker	0.00	18.14
NORTH (#21)		12.47		12.10	Breaker	0.00	8.06
SOUTH (#22)		12.47		15.77	OH Exit	0.00	5.26
WALLEN (#9234) 3X	138.0	12.47	25.00	29.66	Winding	-99.92	4.57
COOK (#21)		12.47		13.85	UG Exit	-97.67	12.34
IRENE BYRON (#22)		12.47		12.40	UG Exit	99.30	1.57
WINDSOR (#23)		12.47		13.67	UG Exit	-99.09	19.15
WALLEN (#9234) 4X	138.0	12.47	20.00	25.37	Winding	96.74	10.48
FRITZ (#24)		12.47		12.40	UG Exit	91.34	58.60
HONEYWELL (#25)		12.47		12.40	UG Exit	95.49	2.97
PINE VALLEY (#26)		12.47		12.40	UG Exit	98.42	10.58
WARREN (#9194) 1X	69.0	12.47	7.00	7.73	Winding		

WARREN (#21)		12.47		6.05	Breaker		
WATER POLLUTION (#9814) 1X	34.5	4.16	7.00	8.00	Winding		
WATER POLLUTION (#9814) 2X	34.5	4.16	4.69	4.41	Winding	0.00	2.30
WATERVLIET (#0922) 2X	34.5	12.47	7.62	8.33	Winding		
12KV (#21)		12.47		12.96	Breaker		
WAYNEDALE (#9324) 1X	138.0	12.47	22.40	25.80	Winding	93.58	2.84
COVINGTON (#22)		12.47		15.77	OH Exit	95.10	22.19
RIDGE (#25)		12.47		15.77	OH Exit	90.93	2.11
SMITH (#26)		12.47		14.73	UG Exit	93.29	14.54
WAYNEDALE (#9324) 2X	138.0	12.47	20.00	23.67	Bus Reg	99.94	4.41
AVALON (#21)		12.47		11.86	UG Exit	99.82	5.06
IDEAL (#23)		12.47		12.10	Breaker	88.68	25.61
LAKEWOOD (#24)		12.47		12.10	Breaker	99.06	9.15
WAYNE TRACE (#9270) 1X	138.0	12.47	22.40	25.70	Winding	99.70	5.66
MEYER (#23)		12.47		14.73	UG Exit	97.90	3.10
PAULDING (#21)		12.47		15.77	OH Exit	99.56	9.18
STINSON (#22)		12.47		11.45	OH Exit	-99.70	30.20
WEBSTER STREET (#9151) 1X	34.5	13.80	7.50	9.57	Winding		
WEBSTER STREET (#9151) 2X	34.5	12.47	20.00	23.93	Bus Reg	98.30	0.00
HARMAR (#21)		12.47		12.96	Other		
OAKDALE (#22)		12.47		11.86	UG Exit		
OXFORD (#23)		12.47		15.77	OH Exit		
WEBSTER STREET (#9151) 4X	34.5	13.80	10.00	12.01	Bus Reg		
WEBSTER STREET (#9151) 1X 4X	34.5	13.80	0.00	21.27	Winding		
NETWORK #4 (#24)		13.80		12.19	UG Exit		
NETWORK #7 (#27)		13.80		9.94	UG Exit		
NETWORK #8 (#28)		13.80		12.19	UG Exit		
WES-DEL (#9305) 1X	138.0	12.47	22.40	26.63	Winding	98.56	6.82
ANTHONY (#21)		12.47		11.86	UG Exit	94.45	5.90
DICE ACRES (#24)		12.47		13.82	Ph Pk Up	99.13	11.95
FARMINGTON (#23)		12.47		11.86	UG Exit	97.57	5.63
HARRISON (#22)		12.47		11.86	UG Exit	99.37	15.10
WEST END (#9103) 1X	34.5	4.16	6.00	9.84	Winding		
EAST (#12)		4.16		5.26	OH Exit	0.00	20.00
GENERAL TIRE (#41)		4.16		5.26	OH Exit	0.00	18.68
WEST END (#9103) 2X	34.5	12.47	5.00	7.53	Winding		
WEST END (#9103) 3X	34.5	12.47	3.75	5.71	Winding		
W.END (#9103) 2X 3X	34.5	12.47	8.75	10.11	Winding		
NORTH (#23)		12.47		15.77	OH Exit		
SOUTH (#21)		12.47		12.10	Breaker		
WEST SIDE (#0951) 3X	138.0	12.47	22.40	23.40	Winding	100.00	4.84
NO 1 (#21)		12.47		13.85	UG Exit	-97.13	12.21
NO 2 (#22)		12.47		13.85	UG Exit	98.27	11.03

NO 3 (#23)		12.47		11.45	OH Exit	98.38	19.39
WEST SIDE (#0951) 5X	138.0	12.47	20.00	24.30	Winding	-99.80	8.52
NO 4 (#24)		12.47		16.55	OH Exit	-99.43	15.92
NO 5 (#25)		12.47		16.55	OH Exit	-98.11	17.11
NO 6 (#26)		12.47		16.55	OH Exit	96.42	16.83
WEST STREET (#9730) 1X	138.0	12.47	20.00	24.40	Winding	99.47	6.55
COLOMA (#21)		12.47		15.64	UG Exit	95.52	12.91
MILLBURG (#23)		12.47		15.64	UG Exit	91.64	30.60
PAW PAW LAKE (#22)		12.47		15.64	UG Exit	98.42	12.21
RYNO ROAD (#24)		12.47		12.59	UG Exit	97.28	25.15
WHEELER STREET (#9724) 1X	69.0	12.47	9.38	12.11	Winding	0.00	3.00
EAST (#22)		12.47		13.82	Ph Pk Up		
FISHER LAKE (#21)		12.47		11.45	OH Exit		
WHITAKER (#9245) 2X	34.5	12.47	22.40	25.10	Winding	0.00	4.80
NO 1 (#21)		12.47		12.10	Breaker	0.00	8.80
NO 2 (#22)		12.47		12.10	Breaker	0.00	10.00
NO 3 (#23)		12.47		15.10	UG Exit	0.00	4.65
WINCHESTER (#9199) 2X	69.0	12.47	22.40	26.92	Winding		
FOUNTAIN PARK (#21)		12.47		12.10	Ph Pk Up		
SARATOGA (#22)		12.47		11.45	OH Exit	0.00	12.40
WINCHESTER (#9199) 3X	69.0	12.47	6.25	8.86	Winding		
OVERMEYER (#43)		12.47		11.86	UG Exit		
WOLF LAKE (#9243) 1X	69.0	12.47	9.38	12.06	Winding	96.97	9.73
MARKET (#21)		12.47		7.99	OH Exit	92.25	45.63
NOBLE CO REMC (#31)		12.47		11.45	OH Exit	97.74	11.09
WOLVERINE (#9726) 1X	69.0	4.16	5.00	5.56	Winding		
WOODBURN (#9258) 1X	69.0	12.47	10.50	11.17	Winding	0.00	15.07
WOODBURN (#21)		12.47		11.86	UG Exit	0.00	15.07
WOODS ROAD (#5293) 1X	138.0	12.47	12.50	15.56	Winding	96.79	5.56
NORTH (#22)		12.47		13.85	UG Exit	98.94	5.60
SOUTH (#21)		12.47		13.85	UG Exit	92.66	11.95

Forecast Year: 2015-2016 **Forecast Sea**

Planner: All **Operating Unit:** AEP-Indiana Michigan Power **D**

Name	
GLENBROOK (#9296) 2X	3.09 MVA permenant transfer from Parnell. 2.27 MVA summer load relief transf
GLENBROOK (#9296) / SPEEDWAY (#24)	Fernhill and Speedway data swapped in CSII 3.09 MVA to be transferred from Parnell. 1.42 MVA from Parnell - Northcrest, 1
PARNELL (#9179) 2X	1.67 MVA permenantly transferred from Parnell - Summerfield to Glenbrook - S 2.27 MVA transferred to Glenbrook - Fernhill during peak Switches closed at AL389-672 Reclosers open at AL390-237 0.6 MVA net adjustment
RIVERSIDE (#0558) / PAW PAW AVE (#23)	Est peak - TLT- Paw Paw ckt carrying Main St -Eastside since 7/30/15 UG cab

ison: **Projections b**

istrict: **Sub Area:** All **Station:**

2015	Forcst Adj. (MVA)	AGR (MVA)	2016	2017	2018	2019	2020	
4.50	0.50	0.30	5.30	5.60	5.90	6.20	6.50	
2.35	0.00	0.10	2.45	2.55	2.65	2.75	2.85	
2.52	0.10	0.20	2.82	3.02	3.22	3.42	3.62	
7.95	0.00	0.00	7.95	7.95	7.95	7.95	7.95	Any update on Bell Aquaculture?
7.95	0.00	0.00	7.95	7.95	7.95	7.95	7.95	
10.68	0.70	0.10	11.48	11.58	11.68	11.78	11.88	ADX Load Bonus feature instituted +-8.75% to allow a
10.68	0.70	0.10	11.48	11.58	11.68	11.78	11.88	ADX
14.16	0.00	0.00	14.16	14.16	14.16	14.16	14.16	
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
3.06	0.00	0.00	3.06	3.06	3.06	3.06	3.06	
6.30	0.00	0.00	6.30	6.30	6.30	6.30	6.30	
3.12	0.00	0.00	3.12	3.12	3.12	3.12	3.12	
1.62	0.00	0.00	1.62	1.62	1.62	1.62	1.62	
2.16	0.00	0.00	2.16	2.16	2.16	2.16	2.16	
15.46	0.00	0.10	15.56	15.66	15.76	15.86	15.96	
15.46	0.00	0.10	15.56	15.66	15.76	15.86	15.96	
6.12	0.00	0.00	6.12	6.12	6.12	6.12	6.12	
4.14	0.00	0.10	4.24	4.34	4.44	4.54	4.64	
2.75	0.00	0.00	2.75	2.75	2.75	2.75	2.75	
11.87	0.00	0.00	11.87	11.87	11.87	11.87	11.87	
5.34	0.00	0.00	5.34	5.34	5.34	5.34	5.34	
6.87	0.00	0.00	6.87	6.87	6.87	6.87	6.87	
4.11	0.00	0.00	4.11	4.11	4.11	4.11	4.11	
5.50	0.00	0.00	5.50	5.50	5.50	5.50	5.50	
5.73	0.00	0.00	5.73	5.73	5.73	5.73	5.73	
13.80	0.00	0.00	13.80	13.80	13.80	13.80	13.80	
4.01	0.85	0.00	4.86	4.86	4.86	4.86	4.86	
9.89	0.00	0.00	9.89	9.89	9.89	9.89	9.89	
11.23	0.00	0.00	11.23	11.23	11.23	11.23	11.23	
4.82	0.90	0.00	5.72	5.72	5.72	5.72	5.72	
4.82	0.90	0.00	5.72	5.72	5.72	5.72	5.72	
18.61	1.90	0.00	**21.52**	21.52	21.52	21.52	21.52	
3.75	0.60	0.00	4.35	4.35	4.35	4.35	4.35	
3.22	0.00	0.00	**4.22**	4.22	4.22	4.22	4.22	

10.14	1.30	0.00	**11.45**	11.45	11.45	11.45	11.45	
2.64	0.00	0.00	2.64	2.64	2.64	2.64	2.64	
2.46	0.00	0.00	2.46	2.46	2.46	2.46	2.46	
9.30	0.00	0.00	9.30	9.30	9.30	9.30	9.30	
5.63	0.00	0.00	5.63	5.63	5.63	5.63	5.63	
14.93	0.00	0.00	14.93	14.93	14.93	14.93	14.93	
18.53	0.00	0.00	**18.73**	18.73	18.73	18.73	18.73	
5.98	0.00	0.00	**6.18**	6.18	6.18	6.18	6.18	
5.89	0.00	0.00	5.89	5.89	5.89	5.89	5.89	
3.33	0.00	0.00	3.33	3.33	3.33	3.33	3.33	
6.56	0.00	0.00	6.56	6.56	6.56	6.56	6.56	
7.20	0.00	0.00	7.20	7.20	7.20	7.20	7.20	
4.70	0.00	0.00	4.70	4.70	4.70	4.70	4.70	est; no data from kv2 meter
2.50	0.00	0.00	2.50	2.50	2.50	2.50	2.50	est; no data from KV2 meters
2.10	0.00	0.00	2.10	2.10	2.10	2.10	2.10	
13.81	0.00	0.00	13.81	13.81	13.81	13.81	13.81	sum of ckts
5.01	0.00	0.00	5.01	5.01	5.01	5.01	5.01	
3.95	0.00	0.00	3.95	3.95	3.95	3.95	3.95	
4.85	0.00	0.00	4.85	4.85	4.85	4.85	4.85	
14.37	0.00	0.00	**14.89**	14.89	14.89	14.89	14.89	sum of ckts
1.58	0.00	0.00	1.58	1.58	1.58	1.58	1.58	
7.82	0.00	0.00	**8.34**	8.34	8.34	8.34	8.34	
4.97	0.00	0.00	4.97	4.97	4.97	4.97	4.97	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.57	0.00	0.00	0.57	0.57	0.57	0.57	0.57	
15.48	0.80	0.00	**16.58**	**17.58**	17.58	17.58	17.58	
6.90	0.00	0.00	**7.20**	**8.20**	8.20	8.20	8.20	
3.00	0.50	0.00	3.50	3.50	3.50	3.50	3.50	
5.30	0.30	0.00	5.60	5.60	5.60	5.60	5.60	IPS
5.33	0.00	0.00	5.33	5.33	5.33	5.33	5.33	
5.33	0.00	0.00	5.33	5.33	5.33	5.33	5.33	
10.65	0.00	0.00	10.65	10.65	10.65	10.65	10.65	
5.72	0.00	0.00	5.72	5.72	5.72	5.72	5.72	
5.59	0.00	0.00	5.59	5.59	5.59	5.59	5.59	
11.33	0.00	0.00	11.33	11.33	11.33	11.33	11.33	
8.10	0.00	0.00	8.10	8.10	8.10	8.10	8.10	
3.68	0.00	0.00	3.68	3.68	3.68	3.68	3.68	
0.40	0.00	0.00	0.40	0.40	0.40	0.40	0.40	Multimatic Indiana Inc: 046-023-452-2
18.88	0.00	0.20	19.08	19.28	**19.58**	19.78	19.98	ADX
10.42	0.00	0.10	10.52	10.62	10.72	10.82	10.92	ADX
9.15	0.00	0.10	9.25	9.35	**9.55**	9.65	9.75	ADX

9.83	0.00	0.00	9.83	9.83	9.83	9.83	9.83	
1.94	0.00	0.00	1.94	1.94	1.94	1.94	1.94	
5.10	0.00	0.00	5.10	5.10	5.10	5.10	5.10	
3.28	0.00	0.00	3.28	3.28	3.28	3.28	3.28	
6.44	0.00	0.00	6.44	6.44	6.44	6.44	6.44	
6.44	0.00	0.00	6.44	6.44	6.44	6.44	6.44	
1.26	0.00	0.00	1.26	1.26	1.26	1.26	1.26	
1.26	0.00	0.00	1.26	1.26	1.26	1.26	1.26	
6.42	0.00	0.00	6.42	6.42	6.42	6.42	6.42	
4.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	
2.45	0.00	0.00	2.45	2.45	2.45	2.45	2.45	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Pate Holdings Inc. 040-596-020-1. No load. Disc
8.91	0.01	0.00	8.92	8.92	8.92	8.92	8.92	
7.23	0.01	0.00	7.24	7.24	7.24	7.24	7.24	
1.70	0.00	0.00	1.70	1.70	1.70	1.70	1.70	
8.78	0.00	0.00	8.78	8.78	8.78	8.78	8.78	
4.28	0.00	0.00	4.28	4.28	4.28	4.28	4.28	
5.02	0.00	0.00	5.02	5.02	5.02	5.02	5.02	
8.10	0.00	0.00	8.10	8.10	8.10	8.10	8.10	
4.68	0.00	0.00	4.68	4.68	4.68	4.68	4.68	
3.85	0.00	0.00	3.85	3.85	3.85	3.85	3.85	
8.44	0.02	0.00	8.46	8.46	8.46	8.46	8.46	sum of ckts
4.06	0.00	0.00	4.06	4.06	4.06	4.06	4.06	
4.38	0.00	0.00	4.38	4.38	4.38	4.38	4.38	
13.51	0.00	0.00	13.51	13.51	13.51	13.51	13.51	
3.39	0.00	0.00	3.39	3.39	3.39	3.39	3.39	
4.11	0.00	0.00	4.11	4.11	4.11	4.11	4.11	
5.98	0.00	0.00	5.98	5.98	5.98	5.98	5.98	
16.47	1.20	0.15	17.82	17.97	18.12	18.27	18.42	
8.05	0.40	0.00	8.45	8.45	8.45	8.45	8.45	
4.91	0.80	0.05	5.76	5.81	5.86	5.91	5.96	
4.43	0.00	0.10	4.53	4.63	4.73	4.83	4.93	
11.34	0.00	0.00	11.34	11.34	11.34	11.34	11.34	
7.56	0.00	0.00	7.56	7.56	7.56	7.56	7.56	
7.56	0.00	0.00	7.56	7.56	7.56	7.56	7.56	
8.51	0.00	0.00	**9.09**	9.09	9.09	9.09	9.09	
3.90	0.00	0.00	**4.49**	4.49	4.49	4.49	4.49	
4.81	0.00	0.00	4.81	4.81	4.81	4.81	4.81	
0.84	0.00	0.00	0.84	0.84	0.84	0.84	0.84	IPS
0.84	0.00	0.00	0.84	0.84	0.84	0.84	0.84	IPS
0.02	0.00	0.00	0.02	0.02	0.02	0.02	0.02	General Service Admin 041-698-757-1
1.14	0.60	0.00	1.74	1.74	1.74	1.74	1.74	IPS
1.14	0.60	0.00	1.74	1.74	1.74	1.74	1.74	IPS

0.62	0.00	0.00	0.62	0.62	0.62	0.62	0.62	Melt Solutions Llc Acct#: 044-110-557-5
9.11	0.00	0.10	9.21	9.31	9.41	9.51	9.61	
9.11	0.00	0.10	9.21	9.31	9.41	9.51	9.61	
18.64	0.01	0.00	18.65	18.65	18.65	18.65	18.65	
3.42	0.00	0.00	3.42	3.42	3.42	3.42	3.42	
7.40	0.00	0.00	7.40	7.40	7.40	7.40	7.40	est from 2014
7.82	0.00	0.00	7.82	7.82	7.82	7.82	7.82	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Not in service Summer 2015
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Not in service summer 2015
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Not in service summer 2015
4.88	0.00	0.00	4.88	4.88	4.88	4.88	4.88	
4.88	0.00	0.00	4.88	4.88	4.88	4.88	4.88	
17.78	0.00	0.00	**18.20**	18.20	18.20	18.20	18.20	
9.41	0.00	0.00	**9.83**	9.83	9.83	9.83	9.83	
2.16	0.00	0.00	2.16	2.16	2.16	2.16	2.16	
6.95	0.00	0.00	6.95	6.95	6.95	6.95	6.95	
11.58	2.00	0.00	13.58	13.58	13.58	13.58	13.58	
4.52	1.00	0.00	5.52	5.52	5.52	5.52	5.52	ADX
2.40	0.00	0.05	2.45	2.50	2.55	2.60	2.65	
5.14	1.00	0.00	6.14	6.14	6.14	6.14	6.14	
15.61	2.70	0.10	18.41	18.51	18.61	18.71	18.81	
5.45	0.90	0.00	6.35	6.35	6.35	6.35	6.35	
6.31	1.30	0.10	7.71	7.81	7.91	8.01	8.11	
4.16	0.50	0.00	4.66	4.66	4.66	4.66	4.66	CSII
21.42	0.00	0.10	**22.44**	22.54	22.64	22.74	22.84	
7.95	0.00	0.10	8.05	8.15	8.25	8.35	8.45	
8.52	0.00	0.00	**9.44**	9.44	9.44	9.44	9.44	
4.80	0.00	0.00	4.80	4.80	4.80	4.80	4.80	
17.41	0.00	0.00	17.41	17.41	17.41	17.41	17.41	
8.55	0.00	0.10	8.65	8.75	8.85	8.95	9.05	
3.25	0.00	0.00	3.25	3.25	3.25	3.25	3.25	
7.43	0.00	0.00	7.43	7.43	7.43	7.43	7.43	
15.69	0.00	0.00	15.69	15.69	15.69	15.69	15.69	
4.76	0.00	0.00	4.76	4.76	4.76	4.76	4.76	
3.09	0.00	0.00	3.09	3.09	3.09	3.09	3.09	
9.19	0.00	0.10	9.29	9.39	9.49	9.59	9.69	
0.13	0.00	0.00	0.13	0.13	0.13	0.13	0.13	
1.43	0.00	0.00	1.43	1.43	1.43	1.43	1.43	ADX data
1.43	0.00	0.00	1.43	1.43	1.43	1.43	1.43	
2.33	0.00	0.00	2.33	2.33	2.33	2.33	2.33	ADX data
2.33	0.00	0.00	2.33	2.33	2.33	2.33	2.33	
12.17	0.00	0.00	12.17	12.17	12.17	12.17	12.17	7.7MVA on Tx1 + 4.47MVA earthmover's DG
2.42	0.00	0.00	2.42	2.42	2.42	2.42	2.42	
6.13	0.02	0.00	6.14	6.14	6.14	6.14	6.14	peak including 4.47MVA Earthmover's DG
4.26	0.00	0.00	4.26	4.26	4.26	4.26	4.26	
9.36	0.71	0.30	10.37	10.67	10.97	11.27	11.57	IPS

2.71	0.80	0.10	3.61	3.71	3.81	3.91	4.01	IPS
6.00	1.01	0.20	7.21	7.41	7.61	7.81	8.01	IPS
15.12	0.00	0.00	**15.69**	15.69	15.69	15.69	15.69	ADX load
7.88	0.00	0.00	**8.45**	8.45	8.45	8.45	8.45	
3.65	0.00	0.00	3.65	3.65	3.65	3.65	3.65	
6.48	0.00	0.00	6.48	6.48	6.48	6.48	6.48	
4.59	0.00	0.10	4.69	4.79	4.89	4.99	5.09	
4.59	0.00	0.10	4.69	4.79	4.89	4.99	5.09	
12.24	0.00	0.00	12.24	12.24	12.24	12.24	12.24	
4.05	0.00	0.00	4.05	4.05	4.05	4.05	4.05	
4.20	0.00	0.00	4.20	4.20	4.20	4.20	4.20	
4.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	
15.36	0.00	0.00	15.36	15.36	15.36	15.36	15.36	
5.19	0.00	0.00	5.19	5.19	5.19	5.19	5.19	
5.25	0.00	0.00	5.25	5.25	5.25	5.25	5.25	
4.30	0.00	0.00	4.30	4.30	4.30	4.30	4.30	
19.44	0.00	0.00	**19.45**	19.45	19.45	19.45	19.45	
7.00	0.00	0.00	**7.01**	7.01	7.01	7.01	7.01	Daleville Town Hall Park load increase?
8.27	0.00	0.00	8.27	8.27	8.27	8.27	8.27	
6.25	0.00	0.00	6.25	6.25	6.25	6.25	6.25	
8.85	0.00	0.00	**9.35**	9.35	9.35	9.35	9.35	
5.50	0.00	0.00	**5.99**	5.99	5.99	5.99	5.99	
3.41	0.00	0.00	3.41	3.41	3.41	3.41	3.41	
15.68	0.00	0.00	**17.43**	**17.93**	**18.68**	18.68	18.68	
5.28	0.00	0.10	**7.13**	**7.73**	**8.58**	8.68	8.78	
4.24	0.00	0.00	4.24	4.24	4.24	4.24	4.24	
6.30	0.00	0.00	6.30	6.30	6.30	6.30	6.30	
13.86	1.50	0.10	**17.56**	**18.96**	**20.02**	**20.24**	20.34	IPS
5.05	0.30	0.00	5.35	**6.65**	**7.61**	**7.73**	7.73	IPS
2.32	0.20	0.00	**4.62**	4.62	4.62	4.62	4.62	
6.04	0.50	0.10	6.64	6.74	6.84	6.94	7.04	
2.88	0.00	0.00	**2.38**	**1.08**	**0.12**	**0.00**	0.00	Sum of Circuits
1.02	0.00	0.00	1.02	**0.52**	**0.12**	**0.00**	0.00	IPS
1.86	0.00	0.00	**1.36**	**0.56**	**0.00**	0.00	0.00	IPS
11.06	0.00	0.00	11.06	11.06	11.06	11.06	11.06	I&M Solar installed 12-2015 on East Circuit Cap
3.70	0.00	0.00	3.70	3.70	3.70	3.70	3.70	I&M Solar installed on East Circuit - 2.5MVA cap
4.05	0.00	0.00	4.05	4.05	4.05	4.05	4.05	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.14	0.00	0.00	5.14	5.14	5.14	5.14	5.14	
2.92	0.00	0.00	2.92	2.92	2.92	2.92	2.92	
2.92	0.00	0.00	2.92	2.92	2.92	2.92	2.92	

16.46	0.40	0.35	17.21	17.56	**19.71**	20.06	20.41	
3.96	0.00	0.20	4.16	4.36	**6.36**	6.56	6.76	
10.53	0.20	0.00	10.73	10.73	10.73	10.73	10.73	
2.51	0.00	0.15	2.66	2.81	2.96	3.11	3.26	
7.02	0.00	0.00	7.02	7.02	7.02	7.02	7.02	
2.34	0.00	0.00	2.34	2.34	2.34	2.34	2.34	
3.05	0.00	0.00	3.05	3.05	3.05	3.05	3.05	
3.33	0.00	0.00	3.33	3.33	3.33	3.33	3.33	
9.46	0.00	0.00	9.46	9.46	9.46	9.46	9.46	
4.24	0.00	0.00	4.24	4.24	4.24	4.24	4.24	
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
7.74	0.00	0.00	7.74	7.74	7.74	7.74	7.74	
3.73	0.00	0.00	3.73	3.73	3.73	3.73	3.73	
4.02	0.00	0.10	4.12	4.22	4.32	4.42	4.52	
15.19	0.00	0.00	15.19	15.19	15.19	15.19	15.19	
5.85	0.00	0.00	5.85	5.85	5.85	5.85	5.85	
4.95	0.00	0.00	4.95	4.95	4.95	4.95	4.95	
6.08	0.00	0.00	6.08	6.08	6.08	6.08	6.08	
9.12	0.00	0.00	9.12	9.12	9.12	9.12	9.12	
4.07	0.00	0.00	4.07	4.07	4.07	4.07	4.07	
6.06	0.00	0.00	6.06	6.06	6.06	6.06	6.06	
15.91	0.00	0.00	15.91	15.91	15.91	15.91	15.91	
6.20	0.00	0.00	6.20	6.20	6.20	6.20	6.20	
4.22	0.00	0.10	4.32	4.42	4.52	4.62	4.72	
6.35	0.00	0.00	6.35	6.35	6.35	6.35	6.35	
17.61	0.00	0.00	17.61	17.61	17.61	17.61	17.61	
7.94	0.00	0.10	8.04	8.14	8.24	8.34	8.44	
7.64	0.00	0.10	7.74	7.84	7.94	8.04	8.14	
4.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	
10.66	0.00	0.00	10.66	10.66	10.66	10.66	10.66	
0.80	0.00	0.00	0.80	0.80	0.80	0.80	0.80	
6.31	0.00	0.00	6.31	6.31	6.31	6.31	6.31	
5.82	0.00	0.00	5.82	5.82	5.82	5.82	5.82	
5.82	0.00	0.00	5.82	5.82	5.82	5.82	5.82	
2.39	0.00	0.05	2.44	2.49	2.54	2.59	2.64	IPS
1.80	0.00	0.00	1.80	1.80	1.80	1.80	1.80	
1.35	0.00	0.00	1.35	1.35	1.35	1.35	1.35	
0.23	0.00	0.00	0.23	0.23	0.23	0.23	0.23	
0.48	0.00	0.00	0.48	0.48	0.48	0.48	0.48	
21.46	0.00	0.00	**21.81**	21.81	21.81	21.81	21.81	
11.24	0.00	0.00	11.24	11.24	11.24	11.24	11.24	
6.67	0.00	0.00	**7.02**	7.02	7.02	7.02	7.02	
4.66	0.00	0.00	4.66	4.66	4.66	4.66	4.66	

10.17	0.00	0.00	10.17	10.17	10.17	10.17	10.17	
5.20	0.00	0.00	5.20	5.20	5.20	5.20	5.20	
5.31	0.00	0.00	5.31	5.31	5.31	5.31	5.31	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Load transferred to Elkhart-#2 in field with stepd
13.77	1.30	0.05	15.12	15.17	15.22	15.27	15.32	
3.49	0.30	0.00	3.79	3.79	3.79	3.79	3.79	
10.02	1.00	0.05	11.07	11.12	11.17	11.22	11.27	
9.71	0.00	0.00	**11.11**	11.11	11.11	11.11	11.11	
0.87	0.00	0.00	0.87	0.87	0.87	0.87	0.87	
8.42	0.00	0.00	**9.82**	9.82	9.82	9.82	9.82	
1.23	0.00	0.00	1.23	1.23	1.23	1.23	1.23	
5.92	0.00	0.00	5.92	5.92	5.92	5.92	5.92	
1.24	0.00	0.00	1.24	1.24	1.24	1.24	1.24	
4.80	0.00	0.00	4.80	4.80	4.80	4.80	4.80	
6.59	0.00	0.00	6.59	6.59	6.59	6.59	6.59	
6.59	0.00	0.00	6.59	6.59	6.59	6.59	6.59	
8.50	0.00	0.00	**9.25**	9.25	9.25	9.25	9.25	
3.37	0.00	0.00	**4.12**	4.12	4.12	4.12	4.12	Texas Eastern Load?
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
9.07	0.00	0.00	9.07	9.07	9.07	9.07	9.07	
6.44	0.00	0.00	6.44	6.44	6.44	6.44	6.44	
2.83	0.00	0.00	2.83	2.83	2.83	2.83	2.83	
17.15	1.80	0.05	**19.60**	19.65	19.70	19.75	19.80	
7.34	0.90	0.00	8.24	8.24	8.24	8.24	8.24	
6.10	0.40	0.00	**7.10**	7.10	7.10	7.10	7.10	
4.65	0.50	0.05	5.20	5.25	5.30	5.35	5.40	
4.73	0.00	0.00	4.73	4.73	4.73	4.73	4.73	
4.75	0.00	0.00	4.75	4.75	4.75	4.75	4.75	
9.48	0.00	0.00	9.48	9.48	9.48	9.48	9.48	
13.38	0.00	0.10	13.48	13.58	13.68	13.78	13.88	
7.42	0.00	0.00	7.42	7.42	7.42	7.42	7.42	
3.64	0.00	0.00	3.64	3.64	3.64	3.64	3.64	
5.37	0.00	0.10	5.47	5.57	5.67	5.77	5.87	
16.01	1.70	0.10	**20.31**	20.41	20.51	20.61	20.71	
6.98	1.00	0.00	7.98	7.98	7.98	7.98	7.98	

4.89	0.50	0.00	**7.89**	7.89	7.89	7.89	7.89	
4.81	0.20	0.10	5.11	5.21	5.31	5.41	5.51	
0.55	0.00	0.00	0.55	0.55	0.55	0.55	0.55	
0.55	0.00	0.00	0.55	0.55	0.55	0.55	0.55	IPS
5.45	0.00	0.00	5.45	5.45	5.45	5.45	5.45	
1.23	0.00	0.00	1.23	1.23	1.23	1.23	1.23	
5.45	0.00	0.00	5.45	5.45	5.45	5.45	5.45	
5.54	0.00	0.00	5.54	5.54	5.54	5.54	5.54	
2.30	0.00	0.00	2.30	2.30	2.30	2.30	2.30	
2.49	0.00	0.00	2.49	2.49	2.49	2.49	2.49	
3.30	0.00	0.00	3.30	3.30	3.30	3.30	3.30	
18.15	0.00	0.00	18.15	18.15	18.15	18.15	18.15	
2.91	0.00	0.00	2.91	2.91	2.91	2.91	2.91	
7.78	0.00	0.10	7.88	7.98	8.08	8.18	8.28	
9.75	0.00	0.10	9.85	9.95	10.05	10.15	10.25	
19.98	0.00	0.10	20.08	20.18	20.28	20.38	20.48	
9.30	0.00	0.20	9.50	9.70	9.90	10.10	10.30	
5.36	0.00	0.10	5.46	5.56	5.66	5.76	5.86	
7.62	0.00	0.00	7.62	7.62	7.62	7.62	7.62	
11.99	2.80	0.10	14.89	14.99	15.09	15.19	15.29	ADX 2.4 MVA to be transferred from Industrial Park -
5.16	2.80	0.00	7.96	7.96	7.96	7.96	7.96	2.4 MVA to be transferred from Industrial Park -
6.13	0.00	0.00	6.13	6.13	6.13	6.13	6.13	
2.62	0.00	0.10	2.72	2.82	2.92	3.02	3.12	
11.48	0.84	0.05	12.37	12.42	12.47	12.52	12.57	See Footnote
7.66	-2.27	0.00	**5.40**	5.40	5.40	5.40	5.40	
4.10	0.00	0.00	4.10	4.10	4.10	4.10	4.10	
2.51	3.09	0.05	5.65	5.70	5.75	5.80	5.85	See Footnote
14.72	2.20	0.38	17.31	17.69	18.07	18.45	18.83	
9.98	2.20	0.30	12.49	12.79	13.09	13.39	13.69	
5.31	0.00	0.08	5.39	5.47	5.55	5.63	5.71	
11.27	0.00	0.00	11.27	11.27	11.27	11.27	11.27	
8.14	0.00	0.00	8.14	8.14	8.14	8.14	8.14	
3.53	0.00	0.00	3.53	3.53	3.53	3.53	3.53	
1.91	0.00	0.10	2.01	2.11	2.21	2.31	2.41	
14.65	0.00	0.00	14.65	14.65	14.65	14.65	14.65	
5.14	0.00	0.00	5.14	5.14	5.14	5.14	5.14	
5.34	0.00	0.00	5.34	5.34	5.34	5.34	5.34	
4.56	0.00	0.00	4.56	4.56	4.56	4.56	4.56	
19.66	0.00	0.00	**21.66**	21.66	21.66	21.66	21.66	
5.82	0.00	0.00	5.82	5.82	5.82	5.82	5.82	
7.78	0.00	0.00	**9.78**	9.78	9.78	9.78	9.78	
8.70	0.00	0.00	8.70	8.70	8.70	8.70	8.70	
5.67	0.00	0.00	5.67	5.67	5.67	5.67	5.67	est. 90% sum of ckts
1.60	0.00	0.00	1.60	1.60	1.60	1.60	1.60	
4.70	0.00	0.00	4.70	4.70	4.70	4.70	4.70	

15.18	0.00	0.00	15.18	15.18	15.18	15.18	15.18	
5.01	0.00	0.00	5.01	5.01	5.01	5.01	5.01	
1.45	0.00	0.00	1.45	1.45	1.45	1.45	1.45	
8.48	0.02	0.00	**8.92**	8.92	8.92	8.92	8.92	
15.89	3.80	0.15	19.84	19.99	20.14	20.29	20.44	
5.69	1.40	0.05	7.14	7.19	7.24	7.29	7.34	
5.14	1.20	0.10	6.44	6.54	6.64	6.74	6.84	
4.98	1.20	0.00	6.18	6.18	6.18	6.18	6.18	
21.55	2.16	0.20	23.91	24.11	24.31	24.51	24.71	
7.30	1.50	0.00	8.80	8.80	8.80	8.80	8.80	
6.70	1.01	0.05	7.75	7.80	7.85	7.90	7.95	
7.67	1.20	0.15	9.02	9.17	9.32	9.47	9.62	
20.28	0.70	0.35	**23.43**	23.78	24.13	24.48	24.83	
6.12	0.00	0.20	6.32	6.52	6.72	6.92	7.12	IPS
6.36	0.00	0.15	6.51	6.66	6.81	6.96	7.11	IPS
9.00	0.70	0.00	**11.80**	11.80	11.80	11.80	11.80	IPS
8.14	0.00	0.00	**9.94**	9.94	9.94	9.94	9.94	
7.32	0.00	0.00	**9.12**	9.12	9.12	9.12	9.12	
2.14	0.00	0.00	2.14	2.14	2.14	2.14	2.14	
7.44	0.00	0.00	7.44	7.44	7.44	7.44	7.44	
3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	
4.44	0.00	0.00	4.44	4.44	4.44	4.44	4.44	
8.18	0.81	0.10	9.08	9.18	9.28	9.38	9.48	
3.22	0.80	0.00	4.02	4.02	4.02	4.02	4.02	
5.83	0.01	0.10	5.93	6.03	6.13	6.23	6.33	
4.09	1.10	0.00	5.19	5.19	5.19	5.19	5.19	
1.99	0.40	0.00	2.39	2.39	2.39	2.39	2.39	
2.40	0.70	0.00	3.10	3.10	3.10	3.10	3.10	
2.38	0.02	0.00	2.40	2.40	2.40	2.40	2.40	
2.36	0.02	0.00	2.38	2.38	2.38	2.38	2.38	
15.99	1.60	0.15	**15.44**	15.59	15.74	15.89	16.04	
8.84	0.00	0.15	**8.30**	8.45	8.60	8.75	8.90	ADX
7.28	1.60	0.00	**7.28**	7.28	7.28	7.28	7.28	ADX
2.84	0.00	0.00	2.84	2.84	2.84	2.84	2.84	
2.84	0.00	0.00	2.84	2.84	2.84	2.84	2.84	
10.02	0.00	0.00	10.02	10.02	10.02	10.02	10.02	
5.66	0.00	0.00	5.66	5.66	5.66	5.66	5.66	
5.42	0.00	0.10	5.52	5.62	5.72	5.82	5.92	
8.16	0.00	0.00	8.16	8.16	8.16	8.16	8.16	
1.71	0.00	0.00	1.71	1.71	1.71	1.71	1.71	
4.08	0.00	0.00	4.08	4.08	4.08	4.08	4.08	
3.28	0.00	0.00	3.28	3.28	3.28	3.28	3.28	
10.05	0.00	0.00	**10.95**	10.95	10.95	10.95	10.95	IPS
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.40	0.00	0.00	**6.30**	6.30	6.30	6.30	6.30	IPS

2.91	0.00	0.00	2.91	2.91	2.91	2.91	2.91	IPS
12.00	0.00	0.00	12.00	12.00	12.00	12.00	12.00	
5.18	0.00	0.00	5.18	5.18	5.18	5.18	5.18	
4.10	0.00	0.00	4.10	4.10	4.10	4.10	4.10	
3.96	0.00	0.00	3.96	3.96	3.96	3.96	3.96	
14.87	0.00	0.00	14.87	14.87	14.87	14.87	14.87	
4.20	0.00	0.00	4.20	4.20	4.20	4.20	4.20	
6.94	0.00	0.00	6.94	6.94	6.94	6.94	6.94	
6.59	0.00	0.00	6.59	6.59	6.59	6.59	6.59	
3.83	0.00	0.00	3.83	3.83	3.83	3.83	3.83	
2.04	0.00	0.00	2.04	2.04	2.04	2.04	2.04	
3.44	0.00	0.00	3.44	3.44	3.44	3.44	3.44	
9.54	0.00	0.10	9.64	9.74	9.84	9.94	10.04	
3.60	0.00	0.00	3.60	3.60	3.60	3.60	3.60	
5.82	0.00	0.10	5.92	6.02	6.12	6.22	6.32	
21.16	0.00	0.00	21.16	21.16	21.16	21.16	21.16	
10.80	0.00	0.00	10.80	10.80	10.80	10.80	10.80	
7.98	0.00	0.10	8.08	8.18	8.28	8.38	8.48	
5.40	0.00	0.00	5.40	5.40	5.40	5.40	5.40	
10.85	1.50	0.12	12.47	12.59	12.71	12.83	12.95	
2.66	0.40	0.08	3.14	3.22	3.30	3.38	3.46	
5.08	0.70	0.00	5.78	5.78	5.78	5.78	5.78	
3.37	0.40	0.05	3.82	3.87	3.92	3.97	4.02	
11.43	1.80	0.10	**14.33**	**16.43**	**17.53**	17.63	17.73	ADX
5.29	0.80	0.00	6.09	6.09	6.09	6.09	6.09	ADX
6.56	1.00	0.10	**8.66**	**10.76**	**11.86**	11.96	12.06	
10.32	0.00	0.00	10.32	10.32	10.32	10.32	10.32	
5.50	0.00	0.00	5.50	5.50	5.50	5.50	5.50	
4.82	0.01	0.00	4.83	4.83	4.83	4.83	4.83	
14.49	2.30	0.30	17.09	17.39	17.69	17.99	18.29	
3.61	0.00	0.15	3.76	3.91	4.06	4.21	4.36	Reflects permenant load transfer to Saturn - Du
5.36	1.00	0.10	6.46	6.56	6.66	6.76	6.86	
6.09	1.30	0.05	7.44	7.49	7.54	7.59	7.64	
12.96	1.30	0.08	14.34	14.42	14.50	14.58	14.66	
1.05	1.10	0.00	2.15	2.15	2.15	2.15	2.15	IPS inspection information contains no multiplier
0.94	1.00	0.00	1.94	1.94	1.94	1.94	1.94	IPS inspection information contains no multiplier
3.46	1.00	0.00	4.46	4.46	4.46	4.46	4.46	IPS station inspection information contains no m
7.34	1.00	0.08	8.42	8.50	8.58	8.66	8.74	IPS station inspection information contains no m
9.90	2.50	0.05	12.45	12.50	12.55	12.60	12.65	IPS

0.95	1.00	0.00	1.95	1.95	1.95	1.95	1.95	IPS station inspection information contains no m
1.34	1.00	0.00	2.34	2.34	2.34	2.34	2.34	IPS station inspection information contains no m
2.66	1.50	0.00	4.16	4.16	4.16	4.16	4.16	IPS station inspection information contains no m
6.03	1.00	0.05	7.08	7.13	7.18	7.23	7.28	IPS station inspection information contains no m
0.52	0.10	0.00	0.62	0.62	0.62	0.62	0.62	IPFW Chiller Plant #2 Acct# 042-922-757-0
1.19	0.10	0.00	1.29	1.29	1.29	1.29	1.29	IPFW Chiller Plant North Pad. Acct # 046-315-0
1.40	0.00	0.00	1.40	1.40	1.40	1.40	1.40	
1.40	0.00	0.00	1.40	1.40	1.40	1.40	1.40	est
16.61	0.80	0.15	17.56	17.71	17.86	18.01	18.16	
4.69	0.60	0.00	5.29	5.29	5.29	5.29	5.29	
5.50	0.60	0.10	6.20	6.30	6.40	6.50	6.60	
6.66	0.00	0.05	6.71	6.76	6.81	6.86	6.91	
13.66	0.10	0.00	13.76	13.76	13.76	13.76	13.76	2.4 MVA permenantly transferred from Summit t
2.93	0.90	0.00	3.83	3.83	3.83	3.83	3.83	
6.49	-1.40	0.00	5.09	5.09	5.09	5.09	5.09	2.4 MVA permenantly transferred to Glenbrook -
4.50	0.60	0.00	5.10	5.10	5.10	5.10	5.10	
18.15	0.00	0.00	18.15	18.15	18.15	18.15	18.15	
3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	
1.47	0.00	0.00	1.47	1.47	1.47	1.47	1.47	
7.68	0.00	0.00	7.68	7.68	7.68	7.68	7.68	
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
17.18	0.00	0.00	17.18	17.18	17.18	17.18	17.18	
8.20	0.00	0.00	8.20	8.20	8.20	8.20	8.20	
5.16	0.00	0.00	5.16	5.16	5.16	5.16	5.16	
5.49	0.00	0.00	5.49	5.49	5.49	5.49	5.49	
8.76	0.00	0.00	8.76	8.76	8.76	8.76	8.76	
4.97	0.00	0.00	4.97	4.97	4.97	4.97	4.97	
4.49	0.00	0.00	4.49	4.49	4.49	4.49	4.49	
7.35	0.00	0.00	7.35	7.35	7.35	7.35	7.35	
4.97	0.00	0.00	4.97	4.97	4.97	4.97	4.97	
3.68	0.00	0.00	3.68	3.68	3.68	3.68	3.68	
4.95	0.00	0.00	4.95	4.95	4.95	4.95	4.95	
0.98	0.00	0.00	0.98	0.98	0.98	0.98	0.98	
2.08	0.00	0.00	2.08	2.08	2.08	2.08	2.08	
1.95	0.00	0.00	1.95	1.95	1.95	1.95	1.95	
3.29	0.00	0.00	3.29	3.29	3.29	3.29	3.29	
0.82	0.00	0.00	0.82	0.82	0.82	0.82	0.82	
2.90	0.00	0.00	2.90	2.90	2.90	2.90	2.90	

10.34	0.00	0.00	10.34	10.34	10.34	10.34	10.34	
4.57	0.00	0.00	4.57	4.57	4.57	4.57	4.57	
3.79	0.00	0.00	3.79	3.79	3.79	3.79	3.79	
3.63	0.00	0.00	**4.55**	4.55	4.55	4.55	4.55	
5.69	1.30	0.00	6.99	6.99	6.99	6.99	6.99	ADX
2.46	0.80	0.00	3.26	3.26	3.26	3.26	3.26	ADX
3.24	0.50	0.00	3.74	3.74	3.74	3.74	3.74	ADX
8.01	-1.00	0.00	**6.41**	6.41	6.41	6.41	6.41	ADX (-) 1.0 MVA adjustment for Kraft Foods power fa
6.08	-1.00	0.00	5.08	5.08	5.08	5.08	5.08	ADX Adjusted (-)1 MVA for Kraft Foods Power Factor
2.28	0.50	0.00	**2.18**	2.18	2.18	2.18	2.18	ADX
2.86	0.40	0.05	3.31	3.36	3.41	3.46	3.51	ADX
1.09	0.10	0.05	1.24	1.29	1.34	1.39	1.44	ADX
1.83	0.30	0.00	2.13	2.13	2.13	2.13	2.13	ADX
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	station sold to Enbridge in 2014
8.21	0.00	0.00	8.21	8.21	8.21	8.21	8.21	
3.60	0.00	0.00	3.60	3.60	3.60	3.60	3.60	
4.85	0.00	0.00	4.85	4.85	4.85	4.85	4.85	
5.72	0.00	0.00	5.72	5.72	5.72	5.72	5.72	
2.99	0.00	0.00	2.99	2.99	2.99	2.99	2.99	
2.70	0.00	0.00	2.70	2.70	2.70	2.70	2.70	
5.76	0.00	0.00	5.76	5.76	5.76	5.76	5.76	
3.24	0.00	0.00	3.24	3.24	3.24	3.24	3.24	
2.88	0.00	0.00	2.88	2.88	2.88	2.88	2.88	
7.60	0.00	0.00	7.60	7.60	7.60	7.60	7.60	
7.60	0.00	0.00	7.60	7.60	7.60	7.60	7.60	
12.90	0.00	0.00	12.90	12.90	12.90	12.90	12.90	
4.39	0.00	0.00	4.39	4.39	4.39	4.39	4.39	
3.44	0.00	0.00	3.44	3.44	3.44	3.44	3.44	
5.41	0.00	0.00	5.41	5.41	5.41	5.41	5.41	
3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	
3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	
0.54	0.00	0.00	0.54	0.54	0.54	0.54	0.54	IPS
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Load permenantly transferred to Saturn Station
0.54	0.00	0.00	0.54	0.54	0.54	0.54	0.54	IPS
2.67	1.21	0.00	3.88	3.88	3.88	3.88	3.88	ADX
1.09	0.51	0.00	1.60	1.60	1.60	1.60	1.60	Modeled
1.60	0.70	0.00	2.30	2.30	2.30	2.30	2.30	Modeled
14.77	1.10	0.00	**15.47**	15.47	15.47	15.47	15.47	ADX
6.56	0.00	0.00	**6.16**	6.16	6.16	6.16	6.16	ADX
6.34	0.50	0.00	6.84	6.84	6.84	6.84	6.84	ADX

2.94	0.60	0.00	3.54	3.54	3.54	3.54	3.54	ADX
7.05	0.00	0.00	**8.05**	8.05	8.05	8.05	8.05	
7.05	0.00	0.00	**8.05**	8.05	8.05	8.05	8.05	ADX
17.13	2.10	0.00	**20.73**	20.73	20.73	20.73	20.73	
7.19	0.80	0.00	7.99	7.99	7.99	7.99	7.99	
6.91	1.00	0.00	7.91	7.91	7.91	7.91	7.91	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3.92	0.30	0.08	**5.80**	5.88	5.96	6.04	6.12	
9.00	0.00	0.00	9.00	9.00	9.00	9.00	9.00	
4.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	
5.20	0.00	0.00	5.20	5.20	5.20	5.20	5.20	
16.32	0.00	0.00	16.32	16.32	16.32	16.32	16.32	
6.41	0.00	0.00	6.41	6.41	6.41	6.41	6.41	
6.95	0.00	0.00	6.95	6.95	6.95	6.95	6.95	
4.52	0.00	0.00	4.52	4.52	4.52	4.52	4.52	
14.11	0.00	0.00	14.11	14.11	14.11	14.11	14.11	
4.26	0.00	0.00	4.26	4.26	4.26	4.26	4.26	
5.33	0.00	0.00	5.33	5.33	5.33	5.33	5.33	
5.58	0.00	0.00	5.58	5.58	5.58	5.58	5.58	
5.60	0.00	0.00	5.60	5.60	5.60	5.60	5.60	
3.67	0.00	0.00	3.67	3.67	3.67	3.67	3.67	
1.96	0.00	0.00	1.96	1.96	1.96	1.96	1.96	
3.26	0.00	0.00	3.26	3.26	3.26	3.26	3.26	
3.26	0.00	0.00	3.26	3.26	3.26	3.26	3.26	
5.52	0.00	0.10	**3.52**	3.62	3.72	3.82	3.92	ADX
5.52	0.00	0.10	**3.52**	3.62	3.72	3.82	3.92	ADX
1.20	0.00	0.00	1.20	1.20	1.20	1.20	1.20	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12.30	0.00	0.00	12.30	12.30	12.30	12.30	12.30	
2.48	0.00	0.00	2.48	2.48	2.48	2.48	2.48	
6.60	0.00	0.00	6.60	6.60	6.60	6.60	6.60	
2.30	0.00	0.00	2.30	2.30	2.30	2.30	2.30	est
2.66	0.00	0.10	2.76	2.86	2.96	3.06	3.16	
4.34	0.00	0.00	4.34	4.34	4.34	4.34	4.34	
2.52	0.00	0.00	2.52	2.52	2.52	2.52	2.52	
2.52	0.00	0.00	2.52	2.52	2.52	2.52	2.52	
3.07	0.00	0.00	3.07	3.07	3.07	3.07	3.07	
2.31	0.00	0.00	2.31	2.31	2.31	2.31	2.31	
0.94	0.00	0.00	0.94	0.94	0.94	0.94	0.94	
12.48	0.00	0.00	12.48	12.48	12.48	12.48	12.48	
3.84	0.00	0.00	3.84	3.84	3.84	3.84	3.84	

6.64	0.00	0.00	6.64	6.64	6.64	6.64	6.64	
3.68	0.00	0.00	3.68	3.68	3.68	3.68	3.68	
3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	
1.70	0.00	0.00	1.70	1.70	1.70	1.70	1.70	
1.40	0.00	0.00	1.40	1.40	1.40	1.40	1.40	
16.02	0.00	0.00	16.02	16.02	16.02	16.02	16.02	
7.77	0.00	0.00	7.77	7.77	7.77	7.77	7.77	
2.69	0.00	0.00	2.69	2.69	2.69	2.69	2.69	
5.15	0.00	0.00	5.15	5.15	5.15	5.15	5.15	
3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	
1.41	0.00	0.00	1.41	1.41	1.41	1.41	1.41	
1.50	0.00	0.00	1.50	1.50	1.50	1.50	1.50	
0.87	0.00	0.00	0.87	0.87	0.87	0.87	0.87	
19.80	0.00	0.00	19.80	19.80	19.80	19.80	19.80	
6.64	0.00	0.00	6.64	6.64	6.64	6.64	6.64	
7.38	0.00	0.00	7.38	7.38	7.38	7.38	7.38	
5.80	0.00	0.00	5.80	5.80	5.80	5.80	5.80	
8.73	0.00	0.00	8.73	8.73	8.73	8.73	8.73	
6.64	0.00	0.00	6.64	6.64	6.64	6.64	6.64	
2.36	0.00	0.00	2.36	2.36	2.36	2.36	2.36	
16.92	1.60	0.00	**19.52**	19.52	19.52	19.52	19.52	IPS
11.70	0.00	0.00	**7.70**	7.70	7.70	7.70	7.70	
3.30	0.40	0.00	**8.70**	8.70	8.70	8.70	8.70	
4.95	1.20	0.00	6.15	6.15	6.15	6.15	6.15	
16.56	1.00	0.00	17.56	17.56	17.56	17.56	17.56	
2.79	0.00	0.00	2.79	2.79	2.79	2.79	2.79	
1.89	3.44	0.00	5.33	5.33	5.33	5.33	5.33	Essex on Spring Street Highland during Peak. 2
2.25	0.30	0.00	2.55	2.55	2.55	2.55	2.55	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5.67	0.00	0.00	5.67	5.67	5.67	5.67	5.67	
1.57	0.00	0.00	1.57	1.57	1.57	1.57	1.57	
4.51	0.00	0.00	4.51	4.51	4.51	4.51	4.51	
3.32	0.00	0.00	3.32	3.32	3.32	3.32	3.32	
1.84	0.00	0.00	1.84	1.84	1.84	1.84	1.84	
1.48	0.00	0.00	1.48	1.48	1.48	1.48	1.48	
6.86	0.00	0.00	6.86	6.86	6.86	6.86	6.86	
4.01	0.00	0.00	4.01	4.01	4.01	4.01	4.01	
3.63	0.00	0.00	3.63	3.63	3.63	3.63	3.63	
1.46	0.00	0.00	1.46	1.46	1.46	1.46	1.46	
1.46	0.00	0.00	1.46	1.46	1.46	1.46	1.46	
2.85	0.00	0.00	2.85	2.85	2.85	2.85	2.85	
2.85	0.00	0.00	2.85	2.85	2.85	2.85	2.85	
6.98	1.30	0.00	**8.69**	8.69	8.69	8.69	8.69	IPS

2.68	0.30	0.00	2.98	2.98	2.98	2.98	2.98	
4.69	1.00	0.00	**6.10**	6.10	6.10	6.10	6.10	IPS
11.70	0.00	0.00	11.70	11.70	11.70	11.70	11.70	
2.52	0.00	0.00	2.52	2.52	2.52	2.52	2.52	
5.04	0.00	0.00	5.04	5.04	5.04	5.04	5.04	
4.23	0.00	0.00	4.23	4.23	4.23	4.23	4.23	
10.70	0.00	0.00	10.70	10.70	10.70	10.70	10.70	
4.94	0.00	0.00	4.94	4.94	4.94	4.94	4.94	
2.98	0.00	0.00	2.98	2.98	2.98	2.98	2.98	
3.43	0.00	0.00	3.43	3.43	3.43	3.43	3.43	
1.92	0.00	0.00	1.92	1.92	1.92	1.92	1.92	
1.92	0.00	0.00	1.92	1.92	1.92	1.92	1.92	
11.70	0.00	0.00	11.70	11.70	11.70	11.70	11.70	
4.36	0.00	0.00	4.36	4.36	4.36	4.36	4.36	
2.89	0.00	0.00	2.89	2.89	2.89	2.89	2.89	est from 2014
6.83	0.00	0.00	6.83	6.83	6.83	6.83	6.83	
1.65	0.20	0.00	1.85	1.85	1.85	1.85	1.85	IPS
1.65	0.20	0.00	1.85	1.85	1.85	1.85	1.85	IPS
17.95	0.00	0.10	18.05	18.15	18.25	18.35	18.45	
6.31	0.00	0.00	6.31	6.31	6.31	6.31	6.31	
6.80	0.00	0.10	6.90	7.00	7.10	7.20	7.30	
5.41	0.00	0.00	5.41	5.41	5.41	5.41	5.41	
6.50	0.00	0.00	6.50	6.50	6.50	6.50	6.50	
6.50	0.00	0.00	6.50	6.50	6.50	6.50	6.50	
9.81	0.00	0.10	9.91	10.01	10.11	10.21	10.31	
9.81	0.00	0.10	9.91	10.01	10.11	10.21	10.31	
1.50	0.00	0.00	1.50	1.50	1.50	1.50	1.50	
1.50	0.00	0.00	1.50	1.50	1.50	1.50	1.50	est.
15.48	0.00	0.00	15.48	15.48	15.48	15.48	15.48	
6.06	0.00	0.00	6.06	6.06	6.06	6.06	6.06	
2.34	0.00	0.00	2.34	2.34	2.34	2.34	2.34	
8.60	0.00	0.00	8.60	8.60	8.60	8.60	8.60	
18.03	0.00	0.00	18.03	18.03	18.03	18.03	18.03	
5.65	0.00	0.00	5.65	5.65	5.65	5.65	5.65	
5.85	0.00	0.10	5.95	6.05	6.15	6.25	6.35	
7.03	0.00	0.00	7.03	7.03	7.03	7.03	7.03	
12.00	0.00	0.10	12.10	12.20	12.30	12.40	12.50	
12.00	0.01	0.10	12.12	12.22	12.32	12.42	12.52	
9.27	0.00	0.05	9.32	9.37	9.42	9.47	9.52	IPS
6.39	0.00	0.05	6.44	6.49	6.54	6.59	6.64	
2.95	0.00	0.00	2.95	2.95	2.95	2.95	2.95	
13.13	2.00	0.00	15.13	15.13	15.13	15.13	15.13	Calculated using 95% of sum of circuits.
4.08	0.80	0.00	4.88	4.88	4.88	4.88	4.88	IPS
3.96	0.50	0.00	4.46	4.46	4.46	4.46	4.46	IPS
5.80	1.30	0.00	7.10	7.10	7.10	7.10	7.10	IPS

17.15	0.00	0.20	17.35	17.55	17.75	17.95	18.15	
6.36	0.00	0.10	6.46	6.56	6.66	6.76	6.86	
4.10	0.00	0.00	4.10	4.10	4.10	4.10	4.10	
8.02	0.00	0.20	8.22	8.42	8.62	8.82	9.02	
14.01	0.00	0.00	**14.56**	14.56	14.56	14.56	14.56	TLT in june and july?
5.45	0.00	0.10	**5.10**	5.20	5.30	5.40	5.50	
5.81	0.00	0.00	**6.81**	6.81	6.81	6.81	6.81	
4.41	0.00	0.10	4.51	4.61	4.71	4.81	4.91	
19.60	3.00	0.00	**23.14**	**23.68**	**24.22**	24.22	24.22	
4.53	1.00	0.00	5.53	5.53	5.53	5.53	5.53	
7.60	1.00	0.00	8.60	8.60	8.60	8.60	8.60	
7.12	1.00	0.00	**8.66**	**9.20**	**9.74**	9.74	9.74	
20.30	0.00	0.10	20.40	20.50	20.60	20.70	20.80	
7.87	0.00	0.00	7.87	7.87	7.87	7.87	7.87	
5.31	0.00	0.10	5.41	5.51	5.61	5.71	5.81	
7.88	0.00	0.10	7.98	8.08	8.18	8.28	8.38	
7.48	0.00	0.10	7.58	7.68	7.78	7.88	7.98	
3.28	0.00	0.10	3.38	3.48	3.58	3.68	3.78	
4.50	0.00	0.10	4.60	4.70	4.80	4.90	5.00	
5.41	0.00	0.00	5.41	5.41	5.41	5.41	5.41	
9.85	0.00	0.00	**15.75**	15.75	15.75	15.75	15.75	
9.85	0.00	0.00	**11.05**	11.05	11.05	11.05	11.05	
0.15	0.00	0.00	**4.85**	4.85	4.85	4.85	4.85	
0.00	0.00	0.00	**10.00**	10.00	10.00	10.00	10.00	
0.00	0.00	0.00	**10.00**	10.00	10.00	10.00	10.00	
8.37	0.00	0.00	8.37	8.37	8.37	8.37	8.37	
2.82	0.00	0.00	2.82	2.82	2.82	2.82	2.82	
5.52	0.00	0.00	5.52	5.52	5.52	5.52	5.52	
18.50	0.00	0.00	18.50	18.50	18.50	18.50	18.50	
5.38	0.00	0.00	5.38	5.38	5.38	5.38	5.38	
5.82	0.00	0.00	5.82	5.82	5.82	5.82	5.82	
7.76	0.00	0.00	7.76	7.76	7.76	7.76	7.76	
16.03	0.00	0.00	16.03	16.03	16.03	16.03	16.03	
6.34	0.00	0.00	6.34	6.34	6.34	6.34	6.34	
3.81	0.00	0.10	3.91	4.01	4.11	4.21	4.31	
6.69	0.00	0.10	6.79	6.89	6.99	7.09	7.19	
9.76	0.71	0.05	10.52	10.57	10.62	10.67	10.72	
2.66	0.21	0.05	2.91	2.96	3.01	3.06	3.11	
3.81	0.00	0.00	3.81	3.81	3.81	3.81	3.81	
4.43	0.50	0.00	4.93	4.93	4.93	4.93	4.93	
2.23	0.00	0.00	2.23	2.23	2.23	2.23	2.23	
13.56	-0.22	0.08	**13.92**	14.00	14.08	14.16	14.24	1.42 MVA permenantly transferred from Parnell
4.12	0.70	0.00	**5.32**	5.32	5.32	5.32	5.32	
7.29	-1.42	0.08	5.95	6.03	6.11	6.19	6.27	1.42 MVA permenant load transfer to Glenbrook

3.25	0.50	0.00	3.75	3.75	3.75	3.75	3.75	
12.70	2.40	0.15	15.25	15.40	15.55	15.70	15.85	See Footnote
8.41	-0.27	0.05	8.19	8.24	8.29	8.34	8.39	1.67 MVA permenantly transferred from Parnell
4.69	2.67	0.10	7.46	7.56	7.66	7.76	7.86	
4.50	0.01	0.00	4.51	4.51	4.51	4.51	4.51	
4.50	0.01	0.00	4.51	4.51	4.51	4.51	4.51	
8.37	0.00	0.00	8.37	8.37	8.37	8.37	8.37	
3.81	0.00	0.00	3.81	3.81	3.81	3.81	3.81	
5.02	0.00	0.00	5.02	5.02	5.02	5.02	5.02	
7.56	0.00	0.10	7.66	7.76	7.86	7.96	8.06	
4.82	0.00	0.10	4.92	5.02	5.12	5.22	5.32	
2.54	0.00	0.00	2.54	2.54	2.54	2.54	2.54	
4.08	0.00	0.00	4.08	4.08	4.08	4.08	4.08	
1.95	0.00	0.00	1.95	1.95	1.95	1.95	1.95	
2.75	0.00	0.00	2.75	2.75	2.75	2.75	2.75	
14.94	0.00	0.00	14.94	14.94	14.94	14.94	14.94	IPS
6.00	0.80	0.00	6.80	6.80	6.80	6.80	6.80	IPS
5.76	0.00	0.00	5.76	5.76	5.76	5.76	5.76	Estimated phase 3 amps, no IPS data.
2.43	0.00	0.00	2.43	2.43	2.43	2.43	2.43	Estimation
0.13	0.00	0.00	0.13	0.13	0.13	0.13	0.13	Dexter Axle Acct. #049-836-596-1
9.67	0.00	0.00	**10.81**	10.81	10.81	10.81	10.81	
4.68	0.00	0.10	**5.92**	6.02	6.12	6.22	6.32	
5.46	0.00	0.00	5.46	5.46	5.46	5.46	5.46	
19.44	0.00	0.00	**21.90**	**22.70**	22.70	22.70	**27.70**	
7.75	0.00	0.00	**8.55**	**9.35**	9.35	9.35	9.35	
8.14	0.00	0.00	**9.80**	9.80	9.80	9.80	**14.80**	
3.18	0.00	0.10	3.28	3.38	3.48	3.58	3.68	
5.76	0.00	0.00	**6.01**	6.01	6.01	6.01	6.01	
3.26	0.00	0.00	**3.51**	3.51	3.51	3.51	3.51	
3.32	0.00	0.00	3.32	3.32	3.32	3.32	3.32	
3.20	0.01	0.00	3.21	3.21	3.21	3.21	3.21	Estimated
3.20	0.01	0.00	3.21	3.21	3.21	3.21	3.21	Estimated
5.76	1.00	0.20	6.96	7.16	7.36	7.56	7.76	IPS
2.88	0.70	0.00	3.58	3.58	3.58	3.58	3.58	IPS
1.64	0.30	0.05	1.99	2.04	2.09	2.14	2.19	IPS
2.22	0.00	0.15	2.37	2.52	2.67	2.82	2.97	IPS
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
5.22	0.00	0.00	5.22	5.22	5.22	5.22	5.22	
9.72	1.00	0.00	**11.47**	11.47	11.47	11.47	11.47	Source - IPS Transformer 1 CB B
9.72	1.00	0.00	**11.47**	11.47	11.47	11.47	11.47	Source - IPS Transformer 2 CB
19.45	2.00	0.00	**22.95**	22.95	22.95	22.95	22.95	
9.59	0.50	0.00	10.09	10.09	10.09	10.09	10.09	
7.55	1.00	0.00	**10.05**	10.05	10.05	10.05	10.05	
2.97	0.50	0.00	3.47	3.47	3.47	3.47	3.47	

12.38	0.00	0.00	12.38	12.38	12.38	12.38	12.38	
10.08	0.00	0.00	10.08	10.08	10.08	10.08	10.08	
2.38	0.00	0.00	2.38	2.38	2.38	2.38	2.38	
6.09	0.01	0.10	6.20	6.30	6.40	6.50	6.60	
5.14	0.00	0.10	5.24	5.34	5.44	5.54	5.64	
1.25	0.00	0.00	1.25	1.25	1.25	1.25	1.25	
5.80	0.00	0.00	5.80	5.80	5.80	5.80	5.80	
4.50	0.00	0.00	4.50	4.50	4.50	4.50	4.50	
1.50	0.00	0.00	1.50	1.50	1.50	1.50	1.50	
8.10	0.00	0.00	8.10	8.10	8.10	8.10	8.10	
4.50	1.00	0.00	5.50	5.50	5.50	5.50	5.50	
5.00	0.00	0.00	5.00	5.00	5.00	5.00	5.00	
1.53	0.00	0.00	1.53	1.53	1.53	1.53	1.53	Frank Miller Load 040-854-757-0
1.53	0.00	0.00	1.53	1.53	1.53	1.53	1.53	Frank Miller Load 040-854-757-0
19.98	3.10	0.20	23.28	**24.18**	24.38	24.58	24.78	IPS
8.34	1.30	0.15	9.79	**10.64**	10.79	10.94	11.09	IPS
5.34	1.20	0.00	6.54	6.54	6.54	6.54	6.54	IPS
4.02	0.30	0.05	4.37	4.42	4.47	4.52	4.57	IPS
2.40	0.30	0.00	2.70	2.70	2.70	2.70	2.70	IPS
6.46	0.00	0.00	**6.94**	6.94	6.94	6.94	6.94	
4.24	0.00	0.00	**3.55**	3.55	3.55	3.55	3.55	Galien TLT with Sawmill load until ROW issue is
0.00	0.00	0.00	**1.17**	1.17	1.17	1.17	1.17	
10.20	0.01	0.10	10.31	10.41	10.51	10.61	10.71	
4.59	0.00	0.00	4.59	4.59	4.59	4.59	4.59	
3.60	0.00	0.10	3.70	3.80	3.90	4.00	4.10	
3.10	0.00	0.00	3.10	3.10	3.10	3.10	3.10	See Footnote
2.49	0.20	0.00	2.69	2.69	2.69	2.69	2.69	IPS
2.49	0.20	0.00	2.69	2.69	2.69	2.69	2.69	IPS
18.64	-4.09	0.35	14.90	15.25	15.60	15.95	16.30	Concordia load subtracted from peak
10.26	-4.11	0.25	6.40	6.65	6.90	7.15	7.40	Concordia ckt on Auburn Road during peak. 4.1
5.74	0.02	0.10	5.86	5.96	6.06	6.16	6.26	CSII
2.71	0.20	0.00	2.91	2.91	2.91	2.91	2.91	
6.40	5.81	0.00	12.21	12.21	12.21	12.21	12.21	Concordia Load added back to Xfmr 6
0.00	4.81	0.00	4.81	4.81	4.81	4.81	4.81	Concordia Ckt on Auburn Road during peak 4.1
5.46	1.00	0.00	6.46	6.46	6.46	6.46	6.46	
1.37	0.00	0.05	1.42	1.47	1.52	1.57	1.62	
4.10	0.00	0.00	4.10	4.10	4.10	4.10	4.10	Estimate - New transformer placed inservice 12/
1.70	0.00	0.00	1.70	1.70	1.70	1.70	1.70	
2.40	0.00	0.00	2.40	2.40	2.40	2.40	2.40	Estimate - circuit placed inservice 12-18-2015
5.72	0.00	0.00	5.72	5.72	5.72	5.72	5.72	
5.72	0.00	0.00	5.72	5.72	5.72	5.72	5.72	

8.83	0.00	0.00	8.83	8.83	8.83	8.83	8.83
4.45	0.00	0.00	4.45	4.45	4.45	4.45	4.45
4.68	0.00	0.00	4.68	4.68	4.68	4.68	4.68
5.48	0.00	0.00	5.48	5.48	5.48	5.48	5.48
2.98	0.00	0.00	2.98	2.98	2.98	2.98	2.98
2.48	0.00	0.08	2.56	2.64	2.72	2.80	2.88
8.36	0.00	0.10	8.46	8.56	8.66	8.76	8.86
6.08	0.00	0.10	6.18	6.28	6.38	6.48	6.58
2.75	0.00	0.00	2.75	2.75	2.75	2.75	2.75
15.40	0.00	0.10	**17.60**	17.70	17.80	17.90	18.00
8.02	0.00	0.00	8.02	8.02	8.02	8.02	8.02
6.83	0.00	0.10	**9.03**	9.13	9.23	9.33	9.43
8.58	0.00	0.00	8.58	8.58	8.58	8.58	8.58
3.40	0.00	0.00	3.40	3.40	3.40	3.40	3.40
5.48	0.00	0.00	5.48	5.48	5.48	5.48	5.48
6.65	0.00	0.00	6.65	6.65	6.65	6.65	6.65
3.56	0.00	0.00	3.56	3.56	3.56	3.56	3.56
3.67	0.00	0.00	3.67	3.67	3.67	3.67	3.67
7.30	0.00	0.00	7.30	7.30	7.30	7.30	7.30
3.80	0.00	0.00	3.80	3.80	3.80	3.80	3.80
3.50	0.00	0.00	3.50	3.50	3.50	3.50	3.50
2.05	0.00	0.00	2.05	2.05	2.05	2.05	2.05
2.05	0.00	0.00	2.05	2.05	2.05	2.05	2.05
9.45	0.00	0.00	9.45	9.45	9.45	9.45	9.45
3.87	0.00	0.00	3.87	3.87	3.87	3.87	3.87
5.60	0.00	0.00	5.60	5.60	5.60	5.60	5.60
1.25	0.00	0.00	1.25	1.25	1.25	1.25	1.25
1.85	0.00	0.00	1.85	1.85	1.85	1.85	1.85
5.28	0.00	0.00	5.28	5.28	5.28	5.28	5.28
5.27	0.00	0.00	5.27	5.27	5.27	5.27	5.27
7.92	0.00	0.00	7.92	7.92	7.92	7.92	7.92
5.30	0.00	0.00	5.30	5.30	5.30	5.30	5.30
3.60	0.00	0.00	3.60	3.60	3.60	3.60	3.60
18.97	0.00	0.00	18.97	18.97	18.97	18.97	18.97
8.71	0.00	0.00	8.71	8.71	8.71	8.71	8.71
6.05	0.00	0.00	6.05	6.05	6.05	6.05	6.05
4.49	0.00	0.00	4.49	4.49	4.49	4.49	4.49
13.35	0.60	0.05	14.00	14.05	14.10	14.15	14.20
1.91	0.00	0.00	1.91	1.91	1.91	1.91	1.91
8.02	0.20	0.05	8.27	8.32	8.37	8.42	8.47
2.08	0.40	0.00	2.48	2.48	2.48	2.48	2.48
2.29	0.00	0.00	2.29	2.29	2.29	2.29	2.29

11.39	1.30	0.05	**13.24**	13.29	13.34	13.39	13.44	
7.32	1.00	0.05	**8.87**	8.92	8.97	9.02	9.07	
4.30	0.30	0.00	4.60	4.60	4.60	4.60	4.60	
11.13	0.22	0.05	11.40	11.45	11.50	11.55	11.60	
8.76	0.20	0.00	8.96	8.96	8.96	8.96	8.96	
2.76	0.02	0.05	2.83	2.88	2.93	2.98	3.03	
19.14	0.00	0.00	**19.64**	**21.02**	**22.02**	22.02	22.02	
5.20	0.00	0.00	5.20	5.20	5.20	5.20	5.20	
8.24	0.00	0.00	**8.44**	**9.82**	**10.82**	10.82	10.82	
6.97	0.00	0.00	**7.27**	7.27	7.27	7.27	7.27	Red Gold Load increase in 2015?
11.70	0.00	0.00	11.70	11.70	11.70	11.70	11.70	
18.64	0.00	0.00	18.64	18.64	18.64	18.64	18.64	
9.60	0.00	0.00	9.60	9.60	9.60	9.60	9.60	
3.62	0.00	0.00	3.62	3.62	3.62	3.62	3.62	
0.54	0.74	0.00	1.28	1.28	1.28	1.28	1.28	
6.60	0.00	0.00	6.60	6.60	6.60	6.60	6.60	
3.98	0.00	0.00	3.98	3.98	3.98	3.98	3.98	
1.38	0.00	0.00	1.38	1.38	1.38	1.38	1.38	
6.22	0.00	0.00	6.22	6.22	6.22	6.22	6.22	
8.98	0.00	0.00	8.98	8.98	8.98	8.98	8.98	
8.98	0.00	0.00	8.98	8.98	8.98	8.98	8.98	
9.53	0.00	0.00	9.53	9.53	9.53	9.53	9.53	
7.57	1.30	0.00	**9.17**	9.17	9.17	9.17	9.17	
2.36	0.10	0.00	2.46	2.46	2.46	2.46	2.46	
3.54	0.80	0.00	4.34	4.34	4.34	4.34	4.34	
2.09	0.40	0.00	**2.79**	2.79	2.79	2.79	2.79	
5.53	-2.74	0.00	2.79	2.79	2.79	2.79	2.79	
5.43	-2.74	0.00	2.69	2.69	2.69	2.69	2.69	Essex Group on Spring Street Highland during p
0.18	0.00	0.00	0.18	0.18	0.18	0.18	0.18	
10.56	0.00	0.00	10.56	10.56	10.56	10.56	10.56	
4.20	0.00	0.00	4.20	4.20	4.20	4.20	4.20	
6.55	0.00	0.00	6.55	6.55	6.55	6.55	6.55	
21.32	0.00	0.05	21.37	21.42	21.47	21.52	21.57	
7.64	0.00	0.00	7.64	7.64	7.64	7.64	7.64	
7.33	0.60	0.05	7.98	8.03	8.08	8.13	8.18	
7.06	0.00	0.00	7.06	7.06	7.06	7.06	7.06	
13.80	0.00	0.05	13.85	13.90	13.95	14.00	14.05	
8.86	0.00	0.05	8.91	8.96	9.01	9.06	9.11	ADX
4.55	0.00	0.00	4.55	4.55	4.55	4.55	4.55	ADX
17.45	0.00	0.10	17.55	17.65	17.75	17.85	17.95	
8.31	0.00	0.10	8.41	8.51	8.61	8.71	8.81	

6.22	0.00	0.00	6.22	6.22	6.22	6.22	6.22
3.07	0.00	0.00	3.07	3.07	3.07	3.07	3.07
10.61	0.00	0.10	10.71	10.81	10.91	11.01	11.11
5.51	0.00	0.00	5.51	5.51	5.51	5.51	5.51
5.41	0.00	0.10	5.51	5.61	5.71	5.81	5.91
8.63	0.00	0.00	8.63	8.63	8.63	8.63	8.63
5.94	0.00	0.00	5.94	5.94	5.94	5.94	5.94
2.86	0.00	0.00	2.86	2.86	2.86	2.86	2.86
8.22	1.41	0.20	9.82	10.02	10.22	10.42	10.62
1.56	0.31	0.05	1.91	1.96	2.01	2.06	2.11
0.99	0.10	0.00	1.09	1.09	1.09	1.09	1.09
4.46	1.00	0.15	5.61	5.76	5.91	6.06	6.21
3.38	0.00	0.00	3.38	3.38	3.38	3.38	3.38
5.47	0.00	0.00	5.47	5.47	5.47	5.47	5.47
5.45	0.00	0.00	5.45	5.45	5.45	5.45	5.45
2.62	0.00	0.00	2.62	2.62	2.62	2.62	2.62
2.61	0.00	0.00	2.61	2.61	2.61	2.61	2.61
5.42	0.00	0.00	**5.82**	5.82	5.82	5.82	5.82
5.42	0.00	0.00	**5.82**	5.82	5.82	5.82	5.82
15.25	0.00	0.10	**17.25**	17.35	17.45	17.55	17.65
3.66	0.00	0.00	3.66	3.66	3.66	3.66	3.66
1.52	0.00	0.00	**3.42**	3.42	3.42	3.42	3.42
7.46	0.00	0.10	7.56	7.66	7.76	7.86	7.96
3.82	0.00	0.10	3.92	4.02	4.12	4.22	4.32
15.49	2.10	0.00	**17.29**	17.29	17.29	17.29	17.29
4.85	0.40	0.00	**4.95**	4.95	4.95	4.95	4.95
4.20	0.60	0.00	4.80	4.80	4.80	4.80	4.80
7.04	1.10	0.00	8.14	8.14	8.14	8.14	8.14
15.01	0.00	0.00	**16.21**	16.21	16.21	16.21	16.21
8.20	0.60	0.10	**10.10**	10.20	10.30	10.40	10.50
6.99	0.30	0.05	7.34	7.39	7.44	7.49	7.54
22.08	0.00	0.00	22.08	22.08	22.08	22.08	22.08
17.97	0.00	0.00	17.97	17.97	17.97	17.97	17.97
5.39	0.00	0.00	5.39	5.39	5.39	5.39	5.39
11.70	0.00	0.00	11.70	11.70	11.70	11.70	11.70
11.70	0.00	0.00	11.70	11.70	11.70	11.70	11.70

13.50	2.20	0.10	15.80	15.90	16.00	16.10	16.20	
5.69	1.00	0.05	6.74	6.79	6.84	6.89	6.94	
1.23	0.20	0.05	1.48	1.53	1.58	1.63	1.68	
6.86	1.00	0.00	7.86	7.86	7.86	7.86	7.86	
9.85	0.00	0.00	**11.25**	**11.97**	**12.54**	12.54	12.54	
1.79	0.00	0.00	1.79	1.79	1.79	1.79	1.79	
8.48	0.00	0.00	**9.88**	**10.60**	**11.17**	11.17	11.17	
5.90	0.00	0.00	5.90	5.90	5.90	5.90	5.90	
5.90	0.00	0.00	5.90	5.90	5.90	5.90	5.90	
15.98	0.00	0.00	15.98	15.98	15.98	15.98	15.98	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Disconnected from system
4.12	0.00	0.00	4.12	4.12	4.12	4.12	4.12	
4.73	0.00	0.00	4.73	4.73	4.73	4.73	4.73	
1.97	0.00	0.00	1.97	1.97	1.97	1.97	1.97	
5.13	0.00	0.00	5.13	5.13	5.13	5.13	5.13	ADX
4.39	0.20	0.00	4.59	4.59	4.59	4.59	4.59	ADX
2.53	0.00	0.00	2.53	2.53	2.53	2.53	2.53	City of Fort Wayne Water Filtration Acct# 041-5
9.52	0.20	0.00	9.72	9.72	9.72	9.72	9.72	
4.87	0.00	0.00	**5.57**	5.57	5.57	5.57	5.57	
1.50	0.00	0.00	1.50	1.50	1.50	1.50	1.50	Calculated 95% sum of circuits
2.61	0.00	0.00	2.61	2.61	2.61	2.61	2.61	
0.53	0.00	0.00	**1.23**	1.23	1.23	1.23	1.23	
18.74	0.00	0.00	18.74	18.74	18.74	18.74	18.74	
8.39	0.00	0.00	8.39	8.39	8.39	8.39	8.39	
4.71	0.00	0.00	4.71	4.71	4.71	4.71	4.71	
5.98	0.00	0.00	5.98	5.98	5.98	5.98	5.98	
1.25	0.00	0.00	1.25	1.25	1.25	1.25	1.25	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.20	0.00	0.00	1.20	1.20	1.20	1.20	1.20	
13.53	2.00	0.00	15.53	15.53	15.53	15.53	15.53	
1.93	0.30	0.00	2.23	2.23	2.23	2.23	2.23	
4.54	0.70	0.00	5.24	5.24	5.24	5.24	5.24	
7.48	1.00	0.00	8.48	8.48	8.48	8.48	8.48	
2.00	0.00	0.05	2.05	2.10	2.15	2.20	2.25	Estimation
2.00	0.00	0.05	2.05	2.10	2.15	2.20	2.25	Estimated
7.29	0.00	0.00	7.29	7.29	7.29	7.29	7.29	
5.87	0.00	0.00	5.87	5.87	5.87	5.87	5.87	
1.46	0.00	0.00	1.46	1.46	1.46	1.46	1.46	

7.33	0.00	0.00	7.33	7.33	7.33	7.33	7.33	
6.37	0.00	0.00	6.37	6.37	6.37	6.37	6.37	
1.45	0.00	0.00	1.45	1.45	1.45	1.45	1.45	
18.38	0.00	0.20	18.58	18.78	18.98	19.18	19.38	
6.49	0.00	0.10	6.59	6.69	6.79	6.89	6.99	
9.26	0.00	0.20	9.46	9.66	9.86	10.06	10.26	
4.17	0.00	0.00	4.17	4.17	4.17	4.17	4.17	
0.02	0.00	0.00	0.02	0.02	0.02	0.02	0.02	Autoline Industries Indiana Llc. Acct # 043-416-(
9.10	0.00	0.00	9.10	9.10	9.10	9.10	9.10	
3.20	0.00	0.00	3.20	3.20	3.20	3.20	3.20	
5.64	0.00	0.00	5.64	5.64	5.64	5.64	5.64	
0.34	0.00	0.00	0.34	0.34	0.34	0.34	0.34	
0.58	0.10	0.00	0.68	0.68	0.68	0.68	0.68	City of Fort Wayne Acct# 047-691-757-0
10.73	0.00	0.00	10.73	10.73	10.73	10.73	10.73	
2.87	0.00	0.00	2.87	2.87	2.87	2.87	2.87	
3.41	0.00	0.00	3.41	3.41	3.41	3.41	3.41	
4.68	0.00	0.00	4.68	4.68	4.68	4.68	4.68	
16.22	0.00	0.00	16.22	16.22	16.22	16.22	16.22	
10.26	0.00	0.00	10.26	10.26	10.26	10.26	10.26	
5.43	0.00	0.00	5.43	5.43	5.43	5.43	5.43	
1.60	0.00	0.00	1.60	1.60	1.60	1.60	1.60	
7.30	0.00	0.10	7.40	7.50	7.60	7.70	7.80	
7.30	0.00	0.10	7.40	7.50	7.60	7.70	7.80	
7.30	0.00	0.00	7.30	7.30	7.30	7.30	7.30	
1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	
6.40	0.00	0.00	6.40	6.40	6.40	6.40	6.40	
6.69	0.00	0.10	**7.44**	7.54	7.64	7.74	7.84	
6.69	0.00	0.10	**7.44**	7.54	7.64	7.74	7.84	
7.03	0.00	0.00	7.03	7.03	7.03	7.03	7.03	
2.50	0.00	0.00	2.50	2.50	2.50	2.50	2.50	
4.77	0.00	0.10	4.87	4.97	5.07	5.17	5.27	
10.89	0.00	0.00	10.89	10.89	10.89	10.89	10.89	
5.84	0.00	0.00	5.84	5.84	5.84	5.84	5.84	
3.25	0.00	0.00	3.25	3.25	3.25	3.25	3.25	
2.80	0.00	0.00	2.80	2.80	2.80	2.80	2.80	
13.95	2.00	0.40	16.35	16.75	17.15	17.55	17.95	
5.37	0.70	0.20	6.27	6.47	6.67	6.87	7.07	
6.74	1.20	0.20	8.14	8.34	8.54	8.74	8.94	
2.14	0.30	0.00	2.44	2.44	2.44	2.44	2.44	
13.81	2.00	0.10	15.91	16.01	16.11	16.21	16.31	
1.21	0.10	0.00	1.31	1.31	1.31	1.31	1.31	
6.63	0.70	0.00	7.33	7.33	7.33	7.33	7.33	
6.50	1.30	0.10	7.90	8.00	8.10	8.20	8.30	
3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	

3.78	0.00	0.00	3.78	3.78	3.78	3.78	3.78	
0.00	1.73	0.00	**1.53**	1.53	1.53	1.53	1.53	Transformer 1X out of service during peak
3.46	-1.73	0.00	**1.53**	1.53	1.53	1.53	1.53	Transformer 1X out of service during peak
14.32	0.50	0.20	**21.02**	21.22	21.42	21.62	21.82	
5.36	0.30	0.10	5.76	5.86	5.96	6.06	6.16	
5.01	0.00	0.10	**11.11**	11.21	11.31	11.41	11.51	
4.29	0.20	0.00	4.49	4.49	4.49	4.49	4.49	
12.07	2.40	0.10	14.57	14.67	14.77	14.87	14.97	
6.03	1.30	0.00	7.33	7.33	7.33	7.33	7.33	
1.39	0.20	0.00	1.59	1.59	1.59	1.59	1.59	ADX
4.87	1.10	0.10	6.07	6.17	6.27	6.37	6.47	
13.93	3.40	0.00	17.33	17.33	17.33	17.33	17.33	
5.49	0.70	0.00	6.19	6.19	6.19	6.19	6.19	
5.52	1.80	0.00	7.32	7.32	7.32	7.32	7.32	
3.25	1.90	0.00	5.15	5.15	5.15	5.15	5.15	
4.94	0.00	0.00	**5.79**	5.79	5.79	5.79	5.79	ADX
15.74	2.03	0.20	17.97	18.17	18.37	18.57	18.77	ADX
8.00	0.42	0.05	8.47	8.52	8.57	8.62	8.67	Estimated
4.00	0.70	0.00	4.70	4.70	4.70	4.70	4.70	Estimated
5.10	0.31	0.15	5.56	5.71	5.86	6.01	6.16	Estimated
6.03	0.00	0.00	**7.08**	7.08	7.08	7.08	7.08	ADX
10.97	0.00	0.00	**12.87**	12.87	12.87	12.87	12.87	ADX
16.29	0.00	0.00	16.29	16.29	16.29	16.29	16.29	
4.33	0.00	0.00	4.33	4.33	4.33	4.33	4.33	
4.98	0.00	0.00	4.98	4.98	4.98	4.98	4.98	
4.10	0.00	0.00	4.10	4.10	4.10	4.10	4.10	
3.13	0.00	0.00	3.13	3.13	3.13	3.13	3.13	
2.76	0.00	0.00	2.76	2.76	2.76	2.76	2.76	
2.50	0.00	0.00	2.50	2.50	2.50	2.50	2.50	
1.14	0.00	0.00	1.14	1.14	1.14	1.14	1.14	
3.70	0.00	0.00	3.70	3.70	3.70	3.70	3.70	
4.80	0.00	0.00	4.80	4.80	4.80	4.80	4.80	
8.50	0.00	0.00	8.50	8.50	8.50	8.50	8.50	
5.90	0.00	0.00	5.90	5.90	5.90	5.90	5.90	
2.70	0.00	0.00	2.70	2.70	2.70	2.70	2.70	
14.46	0.00	0.10	14.56	14.66	14.76	14.86	14.96	
2.87	0.00	0.00	2.87	2.87	2.87	2.87	2.87	
5.42	0.00	0.00	5.42	5.42	5.42	5.42	5.42	

4.45	0.00	0.10	4.55	4.65	4.75	4.85	4.95	
15.44	0.00	0.10	15.54	15.64	15.74	15.84	15.94	
5.55	0.00	0.00	5.55	5.55	5.55	5.55	5.55	
5.93	0.00	0.00	5.93	5.93	5.93	5.93	5.93	
4.68	0.00	0.10	4.78	4.88	4.98	5.08	5.18	
21.23	0.00	0.10	21.33	21.43	21.53	21.63	21.73	
5.49	0.00	0.00	5.49	5.49	5.49	5.49	5.49	
3.50	0.00	0.10	3.60	3.70	3.80	3.90	4.00	
6.84	0.00	0.00	6.84	6.84	6.84	6.84	6.84	
7.49	0.00	0.00	7.49	7.49	7.49	7.49	7.49	Watervliet TLT?
7.33	0.00	0.10	7.43	7.53	7.63	7.73	7.83	
3.63	0.00	0.10	3.73	3.83	3.93	4.03	4.13	
3.70	0.00	0.10	3.80	3.90	4.00	4.10	4.20	
18.90	0.00	0.00	18.90	18.90	18.90	18.90	18.90	
9.18	0.00	0.00	9.18	9.18	9.18	9.18	9.18	
5.40	0.00	0.00	5.40	5.40	5.40	5.40	5.40	
6.45	0.00	0.10	6.55	6.65	6.75	6.85	6.95	
9.45	0.00	0.00	9.45	9.45	9.45	9.45	9.45	
4.62	0.00	0.00	4.62	4.62	4.62	4.62	4.62	
5.57	0.00	0.00	5.57	5.57	5.57	5.57	5.57	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4.38	0.80	0.00	5.18	5.18	5.18	5.18	5.18	
0.80	0.10	0.00	0.90	0.90	0.90	0.90	0.90	
3.62	0.70	0.00	4.32	4.32	4.32	4.32	4.32	
2.16	0.00	0.00	2.16	2.16	2.16	2.16	2.16	
6.57	0.83	0.20	7.60	**8.30**	8.50	8.70	8.90	IPS
6.57	0.83	0.20	7.60	**8.30**	8.50	8.70	8.90	IPS
7.67	1.10	0.15	8.92	9.07	9.22	9.37	9.52	
4.19	0.70	0.15	5.04	5.19	5.34	5.49	5.64	
3.61	0.40	0.00	4.01	4.01	4.01	4.01	4.01	

ason: **Projections based on System Normal and No n**

istrict: **Sub Area:** All **Station:**

Comments
fer off of Parnell - Vance. 0.83 MVA net adjustment
.67 from Parnell - Summerfield
Speedway.
le failure at Main St between Tx's

ased on System Normal and No new construction.

All

Comments
a 12.088 MVA capability.

connected from system

acity =2.5MVA

ɔacity 12-2015

own Tx at EL211-1384

Summit to Glenbrook - Ley Road

Summit

nfee

', assumed multiplier to be 1.

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14-0

:o Glenbrook - Ley Road

- Ley Road

ıctor correction

· correction.

4/23/2015

.74 MVA added back to McKinley Phenie

- Northcrest to Glenbrook - Speedway.

- Speedway.

- Summerfield to Glenbrook - Speedway.

s resolved

1 MVA subtracted from peak.

1 added back to Concordia

/16/2015

ɔeak

18-457-0

357-3

ew construction.

All

Indiana DSM (MWh) in the

	Cumulative							
	Residential					Commercial		
YEAR	Cooling	Heating	Lighting	Other	**Res- Total**	Cooling	Heating	Other
2015	14,939	26,497	-	1,699	**43,135**	15,661	14,900	6,236
2016	28,550	50,671	-	3,072	**82,293**	29,828	28,466	-
2017	40,476	71,868	-	4,157	**116,501**	42,260	40,364	-

Without losses

June 2015 Forecast - AEP Utility Operations

Indiana Michigan - Peak Forecast

		Booked Sales		Losses	Loss	Internal Energy		Summer
Notes	Year	GWh	Growth	GWh	Factor	GWh	Growth	MW
A	2005	21,418	0.6%	1,965	9.2%	23,382	1.9%	4,193
A	2006	22,481	5.0%	1,940	8.6%	24,421	4.4%	4,650
A	2007	24,092	7.2%	1,912	7.9%	26,004	6.5%	4,528
A	2008	23,495	-2.5%	1,950	8.3%	25,446	-2.1%	4,264
A	2009	22,195	-5.5%	2,102	9.5%	24,297	-4.5%	4,262
A	2010	23,536	6.0%	2,294	9.7%	25,829	6.3%	4,474
A	2011	23,541	0.0%	2,388	10.1%	25,929	0.4%	4,837
A	2012	23,441	-0.4%	2,242	9.6%	25,683	-0.9%	4,726
A	2013	23,345	-0.4%	2,342	10.0%	25,687	0.0%	4,540
A	2014	23,403	0.2%	2,339	10.0%	25,741	0.2%	4,388
3 + 9 *	2015	23,558	0.7%	2,182	9.3%	25,740	0.0%	4,545
F	2016	23,603	0.2%	2,248	9.5%	25,850	0.4%	4,559
F	2017	23,527	-0.3%	2,347	10.0%	25,874	0.1%	4,566
F	2018	23,137	-1.7%	2,155	9.3%	25,292	-2.2%	4,475
F	2019	23,016	-0.5%	2,246	9.8%	25,262	-0.1%	4,473
F	2020	22,995	-0.1%	2,240	9.7%	25,235	-0.1%	4,460
F	2021	23,071	0.3%	2,170	9.4%	25,241	0.0%	4,475
F	2022	23,045	-0.1%	2,230	9.7%	25,275	0.1%	4,486
F	2023	23,081	0.2%	2,237	9.7%	25,318	0.2%	4,494
F	2024	23,133	0.2%	2,228	9.6%	25,361	0.2%	4,497
F	2025	23,195	0.3%	2,216	9.6%	25,410	0.2%	4,523
F	2026	23,246	0.2%	2,220	9.5%	25,466	0.2%	4,540

* Indicates 3 months of actual and 9 months of forecast

Compound Growth Rates:			
Historical 5-Yr (2010-15)	0.0%	-1.0%	-0.1%

Historical 10-Yr (2005-15)	1.0%	1.1%	1.0%
Forecast 5-Yr (2016-21)	-0.5%	-0.7%	-0.5%
Forecast 10-Yr (2016-26)	-0.2%	-0.1%	-0.1%

4/30/2015

June 2015 Forecast--Represents "Net" MWh Savings at the meter

										Incremental	
				Residential						Comm	
Com- Total	Industrial	Total		Cooling	Heating	Lighting	Other	Res- Total	Cooling	Heating	
36,796	9,978	89,909		14,939	26,497	-	1,699	43,135	15,661	14,900	
58,295	17,461	158,049		13,611	24,174	-	1,373	39,158	14,168	13,567	
82,624	23,182	222,307		11,926	21,197	-	1,085	34,208	12,432	11,898	

, Actual

Peak Growth	Load Factor	Winter Peak MW	Winter Peak Growth	Load Factor
4.4%	63.7%	3,465	0.0%	77.0%
10.9%	60.0%	3,537	2.1%	78.8%
-2.6%	65.6%	3,945	11.5%	75.2%
-5.8%	68.1%	3,875	-1.8%	75.0%
0.0%	65.1%	3,728	-3.8%	74.4%
5.0%	65.9%	3,858	3.5%	76.4%
8.1%	61.2%	3,785	-1.9%	78.2%
-2.3%	61.9%	3,686	-2.6%	79.3%
-3.9%	64.6%	3,764	2.1%	77.9%
-3.4%	67.0%	3,938	4.6%	74.6%
3.6%	64.7%	3,952	0.4%	74.3%
0.3%	64.5%	3,827	-3.2%	76.9%
0.1%	64.7%	3,821	-0.2%	77.3%
-2.0%	64.5%	3,711	-2.9%	77.8%
-0.1%	64.5%	3,692	-0.5%	78.1%
-0.3%	64.4%	3,666	-0.7%	78.4%
0.3%	64.4%	3,671	0.1%	78.5%
0.2%	64.3%	3,672	0.0%	78.6%
0.2%	64.3%	3,673	0.0%	78.7%
0.1%	64.2%	3,666	-0.2%	78.8%
0.6%	64.1%	3,683	0.5%	78.8%
0.4%	64.0%	3,689	0.2%	78.8%
0.3%			0.5%	

June 2015 Forecast - AEP Utility Operations

Year	2008
Res - Low/Moderate Income	-
Res - Rebates	-
Res - Appliance Recycling	-
Res - Whole House(home energy audit)	-
Res - URWP Loans	18,000
Res - Statewide Core Lighting	1,800,000
Res - Statewide Core Home Energy Assessments	-
Res - Statewide Core Income Qualified Weatherizatior	-
Res - EE Products	-
C&I - Rebates Prescriptive	-
C&I - Incentives	-
R/C/I - School Energy Education	-
Res - Online Audit	-
Res - New Construction	-
Res - Home Weatherization	471,000
Res - Home Energy Reporting	-
Res - Renewables & Demonstration	-
C&I Retro Commisioning Lite	-
C&I HVAC Optimization	-
C&I Audit	-
C&I Rebates	-
Res - Peak Reduction	-
Internal Facility / Other (VVO)	-
TOTAL	**2,289,000**

June 2014 Forecast	**2,289,000**
Variance	**-**

0.8%	1.3%
-0.4%	-0.8%
0.0%	-0.4%

				I&M Native Demand (MW)		
ıercial				MI	IN	Total
Other	**Com- Total**	**Industrial**	Total			
6,236	36,796	9,978	89,909			
(6,236)	21,499	7,483	68,139.42000	4.2	22.2	26.5
-	24,329	5,721	64,259	5.8	31.2	36.9

DSM Filed Programs - Indiana

Incremental kWh Reduction								
2009	2010	2011	2012	2013	2014	2015	2016	2017
-	467,000	591,552	-	-	-	-	-	
-	9,816,000	38,991,004	(1,411,010)	-	-	-	-	
-	2,469,000	3,030,422	4,260,656	3,987,730	4,029,025	2,800,000	2,500,000	2,5
-	-	877,408	15,295	6,333,587	2,181,517	-	-	
9,200	-	-	779	-	-	-	-	
875,440	-	-	21,229,646	19,606,993	15,747,122	-	-	
-	-	-	4,237,391	-	-	-	-	
-	90,000	-	1,723,888	2,119,206	1,529,696	3,425,430	3,425,430	3,4
-	-	-	465,733	-	525,115	16,064,742	15,000,000	10,0
-	4,079,000	24,910,220	38,491,566	91,826,921	23,782,606	35,000,000	25,000,000	25,0
-	-	-	5,451,966	34,832,235	15,441,282			
-	12,000	766,479	2,063,010	4,117,010	2,252,528	1,730,874	1,400,000	1,2
-	-	-	-	12,257,878	2,818,382	3,865,320	3,750,000	3,7
-	-	-	-	-	369,415	731,022	731,022	7
291,000	-	-	-	50,919	1,395,949	1,018,912	1,018,912	1,0
-	259,000	-	3,662,381	16,698,313	23,776,713	33,000,000	28,000,000	25,0
-	-	-	-	58,978	40,315	-	-	
-	-	-	-	18,571,762	20,465,602	24,000,000	25,000,000	25,0
-	-	-	-	-	12,985	-	-	
-	-	-	100,691	3,780,638	4,383,524	4,430,770	4,430,770	4,4
-	-	-	687,018	-	-	-	-	
-	26,331	-	-	213,356	62,367	112,014	112,014	1
3,299,037	1,755,214	491,492	8,588,707	-	7,733,573	27,952,632	52,907,530	75,4
4,474,677	**18,973,545**	**69,658,577**	**89,567,717**	**214,455,526**	**126,547,716**	**154,131,716**	**163,275,678**	**177,5**

4,474,677	**18,973,545**	**69,658,577**	**89,567,717**	**214,455,526**	**152,220,429**	**152,220,429**
-	-	-	-	-	(25,672,713)	1,911,287

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Indiana Energy by Class (MWh) in the June 2015 Forecast

	29%	27%	44%	0%		
YEAR	Residential	Commercial	Industrial	Other Retail	Wholesales	**Total**
2015	4,980,547	4,622,085	7,381,866	68,748	4,654,488	**21,707,733**
2016	4,966,927	4,628,786	7,395,933	68,880	4,642,461	**21,702,986**
2017	4,930,921	4,627,068	7,445,442	68,948	4,649,375	**21,721,754**
2018	4,888,596	4,616,585	7,463,973	68,970	4,102,309	**21,140,433**
2019	4,835,050	4,607,778	7,495,755	68,980	4,109,343	**21,116,906**
2020	4,791,550	4,595,610	7,524,863	68,985	4,113,794	**21,094,801**
2021	4,760,257	4,596,286	7,557,327	69,005	4,120,977	**21,103,853**
2022	4,738,502	4,613,174	7,585,786	69,044	4,131,045	**21,137,551**
2023	4,724,881	4,636,726	7,606,791	69,073	4,139,965	**21,177,436**
2024	4,719,061	4,659,533	7,623,491	69,080	4,147,881	**21,219,046**
2025	4,720,207	4,684,048	7,637,706	69,083	4,155,421	**21,266,464**
2026	4,725,508	4,711,239	7,650,720	69,087	4,162,295	**21,318,848**
2027	4,732,302	4,737,279	7,665,671	69,095	4,169,890	**21,374,236**
2028	4,741,124	4,769,398	7,682,052	69,125	4,179,597	**21,441,296**
2029	4,748,043	4,802,681	7,694,290	69,131	4,188,523	**21,502,667**
2030	4,755,208	4,821,654	7,707,571	69,139	4,198,041	**21,551,613**
2031	4,757,311	4,837,705	7,720,712	69,151	4,206,575	**21,591,454**
2032	4,762,211	4,858,199	7,733,732	69,170	4,215,961	**21,639,274**
2033	4,770,417	4,883,656	7,748,426	69,206	4,227,575	**21,699,279**
2034	4,779,406	4,908,776	7,764,304	69,239	4,238,396	**21,760,121**
2035	4,787,677	4,934,693	7,777,696	69,265	4,249,570	**21,818,901**
2036	4,796,444	4,961,406	7,793,307	69,288	4,260,564	**21,881,010**
2037	4,807,010	4,989,951	7,811,791	69,315	4,271,584	**21,949,650**
2038	4,818,526	5,018,917	7,832,785	69,345	4,282,332	**22,021,904**
2039	4,830,990	5,046,619	7,856,004	69,382	4,293,392	**22,096,386**
2040	4,844,882	5,072,285	7,879,212	69,413	4,305,148	**22,170,939**
2041	4,857,313	5,103,235	7,902,289	69,431	4,316,412	**22,248,681**
2042	4,869,856	5,135,210	7,926,044	69,449	4,327,701	**22,328,259**
2043	4,882,847	5,165,911	7,949,649	69,467	4,339,301	**22,407,175**
2044	4,896,277	5,194,792	7,973,300	69,501	4,350,880	**22,484,749**
2045	4,909,026	5,223,431	7,996,314	69,520	4,362,067	**22,560,357**

I&M Indiana 2015 Retail Revenue--Billed & Accrued $1,245,810,269

I&M Total E

Retail	Retail % of I&M	Wholesale % of I&M	IN MI Check Total	YEAR	Residential
17,053,245	66.68%	18.00%	Ok	2015	6,345,385
17,060,526	66.74%	18.00%	Ok	2016	6,318,057
17,072,379	66.73%	18.00%	Ok	2017	6,267,365
17,038,123	68.13%	16.00%	Ok	2018	6,211,550
17,007,563	68.09%	16.00%	Ok	2019	6,144,551
16,981,007	68.04%	16.00%	Ok	2020	6,090,925
16,982,876	68.02%	17.00%	Ok	2021	6,052,106
17,006,507	68.00%	17.00%	Ok	2022	6,026,593
17,037,470	67.99%	17.00%	Ok	2023	6,012,226
17,071,165	68.00%	17.00%	Ok	2024	6,006,148
17,111,044	68.01%	17.00%	Ok	2025	6,008,417
17,156,553	68.02%	17.00%	Ok	2026	6,015,631
17,204,346	68.04%	16.00%	Ok	2027	6,024,580
17,261,700	68.05%	16.00%	Ok	2028	6,036,171
17,314,145	68.07%	16.00%	Ok	2029	6,045,685
17,353,572	68.07%	16.00%	Ok	2030	6,055,251
17,384,879	68.07%	16.00%	Ok	2031	6,058,405
17,423,312	68.07%	16.00%	Ok	2032	6,064,818
17,471,704	68.06%	16.00%	Ok	2033	6,075,238
17,521,725	68.05%	16.00%	Ok	2034	6,087,011
17,569,331	68.04%	16.00%	Ok	2035	6,098,328
17,620,445	68.03%	16.00%	Ok	2036	6,109,417
17,678,067	68.02%	16.00%	Ok	2037	6,122,015
17,739,572	68.02%	16.00%	Ok	2038	6,135,902
17,802,994	68.02%	16.00%	Ok	2039	6,150,879
17,865,791	68.03%	16.00%	Ok	2040	6,167,225
17,932,269	68.04%	16.00%	Ok	2041	6,182,401
18,000,558	68.05%	16.00%	Ok	2042	6,197,739
18,067,875	68.06%	16.00%	Ok	2043	6,213,260
18,133,869	68.05%	16.00%	Ok	2044	6,229,043
18,198,290	68.05%	16.00%	Ok	2045	6,244,196

Energy by Class (MWh) in the June 2015 Forecast

Commercial	Industrial	Other Retail	Wholesales	**Total**
5,527,429	8,310,296	81,266	5,310,992	**25,575,369**
5,531,155	8,328,671	81,384	5,302,949	**25,562,216**
5,529,103	8,393,950	81,418	5,314,290	**25,586,125**
5,517,526	8,425,210	81,409	4,770,800	**25,006,495**
5,507,832	8,465,993	81,381	4,779,658	**24,979,414**
5,495,189	8,503,294	81,354	4,785,984	**24,956,746**
5,496,971	8,542,097	81,339	4,795,731	**24,968,242**
5,516,791	8,574,875	81,342	4,808,748	**25,008,349**
5,543,993	8,599,056	81,334	4,820,365	**25,056,974**
5,569,721	8,618,034	81,296	4,830,881	**25,106,079**
5,597,087	8,633,682	81,265	4,840,918	**25,161,369**
5,627,857	8,647,921	81,239	4,850,340	**25,222,988**
5,657,214	8,662,911	81,222	4,860,607	**25,286,533**
5,693,871	8,679,893	81,231	4,873,193	**25,364,359**
5,732,044	8,692,709	81,211	4,884,636	**25,436,285**
5,753,792	8,706,168	81,188	4,896,608	**25,493,007**
5,772,997	8,719,870	81,156	4,907,761	**25,540,190**
5,797,812	8,734,151	81,129	4,919,950	**25,597,860**
5,828,838	8,751,243	81,116	4,934,512	**25,670,947**
5,860,135	8,770,833	81,105	4,948,211	**25,747,295**
5,892,244	8,788,857	81,091	4,962,010	**25,822,530**
5,924,670	8,810,918	81,075	4,975,621	**25,901,701**
5,959,182	8,836,762	81,055	4,989,477	**25,988,491**
5,994,511	8,865,092	81,038	5,003,224	**26,079,767**
6,027,944	8,894,256	81,034	5,017,375	**26,171,487**
6,058,521	8,922,169	81,026	5,032,160	**26,261,102**
6,095,341	8,950,682	81,006	5,046,470	**26,355,900**
6,133,539	8,980,541	80,988	5,060,811	**26,453,618**
6,169,887	9,008,880	80,971	5,075,485	**26,548,482**
6,205,587	9,040,699	80,968	5,090,291	**26,646,587**
6,240,918	9,071,682	80,947	5,104,460	**26,742,203**

Retail
20,264,377
20,259,267
20,271,835
20,235,695
20,199,756
20,170,761
20,172,512
20,199,600
20,236,609
20,275,198
20,320,451
20,372,648
20,425,926
20,491,166
20,551,649
20,596,400
20,632,428
20,677,910
20,736,435
20,799,084
20,860,521
20,926,080
20,999,014
21,076,543
21,154,112
21,228,941
21,309,430
21,392,807
21,472,997
21,556,296
21,637,743

I&M Util
2015 Actuals by Month In
Authorized / Contro

Project	Expense Category
000023305 IN-Resi Energy Efficient Products	Staffing
	Incentives
	Incentive Accrual
	Delivery
	Delivery Accrual
	Direct Mailers / Postage
	EM&V
	EM&V Accrual
	Other
	Sum:
000020613 IN-Resi EEP - LIGHTING	Staffing
	Incentives
	Incentive Accrual
	Delivery
	Delivery Accrual
	EM&V
	EM&V Accrual
	Other
	Sum:
000020615 IN-Resi Low Income Weatherization	Staffing
	AEP Labor (Load Research)
	AEP Labor (Creative Svcs.)
	Incentives
	Incentive Accrual
	Delivery
	Delivery Accrual
	EM&V
	EM&V Accrual
	Other (BPI / audit tools)
	Sum:
000020616 IN-Resi Schools Energy Education	Staffing
	Incentives
	Incentive Accrual
	Delivery
	Delivery Accrual
	EM&V
	EM&V Accrual
	Other (stores loading / use tax)
	Sum:

000018505	IN-Resi Appliance Recycling	Staffing
		AEP IT - contract labor
		Incentives
		Incentive Accrual
		Delivery
		Delivery Accrual
		EM&V
		EM&V Accrual
		Other
		Sum:
000020619	IN-Resi New Construction	Staffing
		Incentives
		Incentive Accrual
		Delivery
		Delivery Accrual
		EM&V
		EM&V Accrual
		Other
		Sum:
000020621	IN-Resi Weatherization	Staffing
		AEP Labor (Load Research)
		AEP Labor (Creative Svcs.)
		Incentives
		Incentive Accrual
		Delivery
		Delivery Accrual
		EM&V
		EM&V Accrual
		Direct Mailers / Postage
		Other (BPI / audit tools)
		Sum:
000020618	IN-Resi Online Audit	Staffing
		Incentives
		Incentive Accrual
		Delivery
		Delivery Accrual
		Direct Mailers (KPC Media)
		EM&V
		EM&V Accrual
		Other (stores loading / use tax)
		Sum:
000020622	IN-Resi Home Energy Reports	Staffing
		AEP IT - contract labor
		Delivery
		Delivery Accrual
		EM&V
		EM&V Accrual

			Other
			Sum:
000020623	IN-Resi Peak Reduction Program		Staffing
		(Bill Credits)	Incentives
			Delivery
			Delivery Accrual
			EM&V
			EM&V Accrual
			Other
			Sum:
000020617	IN-C&I Prescriptives Program		Staffing
			Incentives
			Incentive Accrual
			Delivery
			Delivery Accrual
			EM&V
			EM&V Accrual
			Other
			Sum:
000019206	IN-C&I Custom Incentives Program		Staffing
			Incentives
			Incentive Accrual
			Delivery
			Delivery Accrual
			EM&V
			EM&V Accrual
			Other
			Sum:
000020627	IN-C&I Audit & SBDI		Staffing
			Incentives
			Incentive Accrual
			Delivery
			Delivery Accrual
			EM&V
			EM&V Accrual
			Other
			Sum:
000023311	IN EECO		Staffing
			AEP Labor
			Depreciation
			Carrying Costs
			Delivery
			EM&V
			EM&V Accrual
			Other
			Ongoing O&M (WO UTINEECO01
			Sum:

000018501	IN-Staff Development & Memberships	Staffing
		Development Budget
		Hiring (background checks)
		Memberships
		Training / Classes
		Conference Registration
		Other / Travel
		Sum:
000018502	IN-Information Technology Systems	Staffing
		Delivery
		Other
		Sum:
000018503	IN-Marketing & Customer Awareness	Staffing
		Agency / Creative Services
		Website Maintenance
		TV Media
		Print Media
		Digital Media
		EE Video Series
		Event Expenses
		eNewsletter
		Supplies
		Other / cell phones
		Sum:
000023308	IN-Market Potential Studies	Staffing
		Delivery
		Delivery Accrual
		Other
		Sum:
000023310	IN-Planning & Analytic Support (EM&V)	Staffing
		AEP Labor
		Delivery
		Delivery Accrual
		Other
		Sum:
000023306	IN-New Program Development	Staffing
		Delivery
		Other
		Sum:
000023307	IN-Budgeting & Accounting Support	Staffing
		Office Supplies
		Other / cell phones
		Sum:

GRAND TOTAL:

Approved Budget Transfers:

04/10/2015 From Resi Home Weatherization TO Schools Energy Education
05/07/2015 From Resi Home Weatherization TO Schools Energy Education
08/12/2015 From Resi Home Weatherization TO Schools Energy Education
08/24/2015 From Home Energy Reports TO EEP - Lighting
08/24/2015 From Resi Home Weatherization TO EEP - Lighting
11/13/2015 From Planning & Analytic Support TO Staff Development & Memberships
11/13/2015 From Market Potential Studies TO Staff Development & Memberships
12/03/2015 From C&I Prescriptive TO C&I Custom
12/03/2015 From C&I Audit / SBDI TO C&I Custom

ity Operations
diana DSM_EE Program Year 6
l Budget Variance Report

2015 December Year-to-Date			ANNUAL Budget $s Remaining	2015 Authorized
Forecast $	Actual $ *(includes accruals)*			
$25,875.00	$28,625.08		($2,750.08)	$25,875.00
$179,969.00	$134,175.06		$45,793.94	$179,969.00
$0.00	$0.00			$0.00
$154,170.00	$130,426.93		$23,743.07	$154,170.00
$0.00	$0.00			$0.00
$0.00	$7,506.34		($7,506.34)	$0.00
$11,250.00	$16,802.94		($8,019.66)	$11,250.00
$0.00	$2,466.72			$0.00
$0.00	$804.55		($804.55)	$0.00
$371,264.00	**$320,807.62**		**$50,456.38**	**$371,264.00**
$36,154.00	$28,859.12		$7,294.88	$36,154.00
$979,600.00	$482,144.40		$497,455.60	$979,600.00
$0.00	$0.00			$0.00
$299,321.39	$244,515.27		$54,806.12	$299,321.39
$0.00	$0.00			$0.00
$50,000.00	$72,651.89		($22,651.89)	$50,000.00
$0.00	$0.00			$0.00
$0.00	$599.20		($599.20)	$0.00
$1,365,075.39	**$828,769.88**		**$536,305.51**	**$1,365,075.39**
$30,238.00	$33,992.46		($6,752.05)	$30,238.00
$0.00	$669.03			$0.00
$0.00	$2,328.56			$0.00
$237,102.00	$9,400.76		$227,701.24	$237,102.00
$0.00	$0.00			$0.00
$852,567.00	$116,906.84		$735,660.16	$852,567.00
$0.00	$0.00			$0.00
$85,998.00	$43,024.10		$42,973.90	$85,998.00
$0.00	$0.00			$0.00
$0.00	$11,644.59		($11,644.59)	$0.00
$1,205,905.00	**$217,966.34**		**$987,938.66**	**$1,205,905.00**
$30,518.00	$22,118.22		$8,399.78	$30,518.00
$363,177.00	$348,734.00		$14,443.00	$363,177.00
$0.00	$0.00			$0.00
$204,080.00	$211,773.75		($7,693.75)	$204,080.00
$0.00	$0.00			$0.00
$50,000.00	$33,386.73		$16,613.27	$50,000.00
$0.00	$0.00			$0.00
$0.00	$29,397.09		($29,397.09)	$0.00
$647,775.00	**$645,409.79**		**$2,365.21**	**$647,775.00**

$52,460.00	$44,437.05	$8,022.95	$52,460.00
$0.00	$2,200.00	($2,200.00)	$0.00
$134,000.00	$128,996.80	$5,003.20	$134,000.00
$0.00	$0.00		$0.00
$424,222.95	$366,129.12	$58,093.83	$424,222.95
$0.00	$0.00		$0.00
$38,010.05	$25,103.39	$12,906.66	$38,010.05
$0.00	$0.00		$0.00
$0.00	$494.32	($494.32)	$0.00
$648,693.00	**$567,360.68**	**$81,332.32**	**$648,693.00**
$40,000.00	$35,606.65	$4,393.35	$40,000.00
$228,079.00	$221,700.00	$6,379.00	$228,079.00
$0.00	$0.00		$0.00
$174,343.00	$168,097.36	$6,245.64	$174,343.00
$0.00	$0.00		$0.00
$50,000.00	$14,425.81	$35,574.19	$50,000.00
$0.00	$0.00		$0.00
$0.00	$366.62	($366.62)	$0.00
$492,422.00	**$440,196.44**	**$52,225.56**	**$492,422.00**
$30,238.00	$80,023.69	($52,375.71)	$30,238.00
$0.00	$989.03		$0.00
$0.00	$1,600.99		$0.00
$462,433.00	$55,062.41	$407,370.59	$462,433.00
$0.00	$0.00		$0.00
$853,808.61	$86,332.54	$767,476.07	$853,808.61
$0.00	$0.00		$0.00
$85,998.00	$37,166.69	$48,831.31	$85,998.00
$0.00	$0.00		$0.00
$0.00	$9,716.01	($9,716.01)	$0.00
$0.00	$16,733.34	($16,733.34)	$0.00
$1,432,477.61	**$287,624.70**	**$1,144,852.91**	**$1,432,477.61**
$69,863.00	$35,740.66	$34,122.34	$69,863.00
$252,335.00	$257,364.80	($5,029.80)	$252,335.00
$0.00	($0.00)		$0.00
$129,838.00	$37,897.80	$91,940.20	$129,838.00
$0.00	$0.00		$0.00
$178,750.00	$150,013.69	$28,736.31	$178,750.00
$46,000.00	$21,422.63	$24,577.37	$46,000.00
$0.00	$0.00		$0.00
$0.00	$19,552.55	($19,552.55)	$0.00
$676,786.00	**$521,992.13**	**$154,793.87**	**$676,786.00**
$25,875.00	$26,749.90	($874.90)	$25,875.00
$0.00	$105,054.73	($105,054.73)	$0.00
$1,115,772.00	$1,029,806.01	$79,361.00	$1,115,772.00
$0.00	$6,604.99		$0.00
$40,000.00	$23,092.99	$16,907.01	$40,000.00
$0.00	$0.00		$0.00

$0.00	$303.70	($303.70)	$0.00
$1,181,647.00	**$1,191,612.32**	**($9,965.32)**	**$1,181,647.00**
$110,405.00	$19,782.35	$90,622.65	$110,405.00
$360,000.00	$321,592.00	$38,408.00	$360,000.00
$304,430.00	$247,642.49	$56,787.51	$304,430.00
$0.00	$0.00		$0.00
$50,000.00	$28,574.92	$21,425.08	$50,000.00
$0.00	$0.00		$0.00
$0.00	$333.54	($333.54)	$0.00
$824,835.00	**$617,925.30**	**$206,909.70**	**$824,835.00**
$88,202.00	$143,083.90	($54,881.90)	$88,202.00
$1,450,000.00	$1,326,593.16	$123,406.84	$1,450,000.00
$0.00	$0.00		$0.00
$817,519.00	$602,910.98	$214,608.02	$817,519.00
$0.00	$0.00		$0.00
$97,547.00	$115,074.41	($17,527.41)	$97,547.00
$0.00	$0.00		$0.00
$0.00	$8,919.99	($8,919.99)	$0.00
$2,453,268.00	**$2,196,582.44**	**$256,685.56**	**$2,453,268.00**
$85,835.00	$146,445.02	($60,610.02)	$85,835.00
$2,034,000.00	$1,828,851.30	$205,148.70	$2,034,000.00
$0.00	$0.00		$0.00
$900,486.00	$856,157.82	$44,328.18	$900,486.00
$0.00	$0.00		$0.00
$150,000.00	$76,186.00	$73,814.00	$150,000.00
$0.00	$0.00		$0.00
$0.00	$8,569.20	($8,569.20)	$0.00
$3,170,321.00	**$2,916,209.34**	**$254,111.66**	**$3,170,321.00**
$34,931.00	$34,945.95	($14.95)	$34,931.00
$304,385.00	$231,092.27	$73,292.73	$304,385.00
$0.00	$0.00		$0.00
$283,949.00	$155,164.77	$128,784.23	$283,949.00
$0.00	$0.00		$0.00
$45,000.00	$91,483.77	($46,483.77)	$45,000.00
$0.00	$0.00		$0.00
$0.00	$686.60	($686.60)	$0.00
$668,265.00	**$513,373.36**	**$154,891.64**	**$668,265.00**
$60,885.00	$19,331.19	$41,553.81	$60,885.00
$0.00	$0.00	$0.00	$0.00
$0.00	$140,103.41	($140,103.41)	$0.00
$0.00	$426,934.93	($426,934.93)	$0.00
$1,092,715.00	$0.00	$1,092,715.00	$1,092,715.00
$75,000.00	$49,821.71	$25,178.29	$75,000.00
$0.00	$0.00		$0.00
$0.00	$281.39	($281.39)	$0.00
$56,000.00	$30,125.04	$25,874.96	$56,000.00
$1,284,600.00	**$666,597.67**	**$618,002.33**	**$1,284,600.00**

$0.00	$33,958.75	($33,958.75)	$0.00
$65,000.00	$0.00	$36,195.87	$65,000.00
$0.00	$435.55		$0.00
$0.00	$11,426.55		$0.00
$0.00	$3,184.00		$0.00
$0.00	$3,625.00		$0.00
$0.00	$10,133.03		$0.00
$65,000.00	**$62,762.88**	**$2,237.12**	**$65,000.00**
$0.00	$303.88	($303.88)	$0.00
$200,000.00	$177,743.33	$22,256.67	$200,000.00
$0.00	$0.83	($0.83)	$0.00
$200,000.00	**$178,048.04**	**$21,951.96**	**$200,000.00**
$0.00	$39,545.03	($39,545.03)	$0.00
$300,000.00	$14,026.72	$48,654.24	$300,000.00
$0.00	$18,957.00		$0.00
$0.00	$116,489.00		$0.00
$0.00	$23,619.64		$0.00
$0.00	$26,011.00		$0.00
$0.00	$34,500.00		$0.00
$0.00	$4,312.33		$0.00
$0.00	$10,300.00		$0.00
$0.00	$3,130.07		$0.00
$0.00	$811.21	($811.21)	$0.00
$300,000.00	**$291,702.00**	**$8,298.00**	**$300,000.00**
$0.00	$0.00	$0.00	$0.00
$65,000.00	$100,890.00	($35,890.00)	$65,000.00
$0.00	$0.00		$0.00
$0.00	$0.00	$0.00	$0.00
$65,000.00	**$100,890.00**	**($35,890.00)**	**$65,000.00**
$100,000.00	$69,462.17	$30,537.83	$100,000.00
$0.00	$0.00	$0.00	$0.00
$0.00	$9,684.89	($9,684.89)	$0.00
$0.00	$0.00		$0.00
$0.00	$2,109.21	($2,109.21)	$0.00
$100,000.00	**$81,256.27**	**$18,743.73**	**$100,000.00**
$0.00	$0.00	$0.00	$0.00
$50,000.00	$45,000.00	$5,000.00	$50,000.00
$0.00	$0.00	$0.00	$0.00
$50,000.00	**$45,000.00**	**$5,000.00**	**$50,000.00**
$125,000.00	$123,760.53	$1,239.47	$125,000.00
$0.00	$627.13	($627.13)	$0.00
$0.00	$422.02	($422.02)	$0.00
$125,000.00	**$124,809.68**	**$190.32**	**$125,000.00**

$17,328,334.00	***$12,816,896.88***	***$4,511,437.12***	***$17,328,334.00***

110,515.00	000020614	IN Statewide Home Energy Audit
577.00	000020624	IN Renewables & Demonstrations
187,880.00	000020625	IN C&I Retro-Commissioning Lite
267,228.00	000020626	IN C&I HVAC Optimization
25,833.39		
25,000.00		
10,000.00		
310,626.00		
154,777.00		

January Actual $ *(includes accruals)*	**February Actual $** *(includes accruals)*	**March Actual $** *(includes accruals)*	**April Actual $** *(includes accruals)*
$1,575.51	$1,748.60	$1,024.56	$2,108.37
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$49,000.00	$25,000.00	($47,000.00)	$6,000.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$2,000.00	$3,000.00	$3,000.00	($1,000.00)
$13.60	$26.93	$12.18	$4.25
$52,589.11	**$29,775.53**	**($42,963.26)**	**$7,112.62**
$32.31	$388.87	$960.11	$1,765.77
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$78,200.00	$12,800.00
$0.00	$0.00	$5,490.78	$8,248.11
$2,500.00	$2,500.00	($1,300.00)	($1,000.00)
$1.81	$0.00	$35.09	$75.48
$2,534.12	**$2,888.87**	**$83,385.98**	**$21,889.36**
$142.56	$0.00	$0.00	$4,852.36
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$9,000.00	$9,000.00	$56,085.00	$17,915.00
$0.00	$0.00	$5,401.00	$11,129.60
$4,000.00	$1,500.00	($2,700.00)	$300.00
$4.53	$0.00	$348.03	$1,194.74
$13,147.09	**$10,500.00**	**$59,134.03**	**$35,391.70**
$890.67	$4,509.71	$2,009.62	$2,770.49
$0.00	$0.00	$0.00	$136,536.40
$0.00	$0.00	$93,447.50	($28,428.70)
$0.00	$0.00	$0.00	$76,469.25
$0.00	$0.00	$52,336.50	($15,921.75)
$0.00	$0.00	$7,292.24	$5,217.60
$4,500.00	$2,500.00	($2,500.00)	$0.00
$3.61	$17.66	$18.52	$11,498.64
$5,394.28	**$7,027.37**	**$152,604.38**	**$188,141.93**

$1,522.34	$2,934.86	$1,940.90	$3,234.30
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$8,880.00
$0.00	$0.00	$0.00	$19,320.00
$0.00	$0.00	$0.00	$0.00
$24,727.50	$27,115.00	$21,718.50	$4,024.15
$0.00	$0.00	$0.00	$0.00
$2,000.00	$3,500.00	$3,000.00	($941.65)
$7.27	$27.15	$12.05	$58.13
$28,257.11	**$33,577.01**	**$26,671.45**	**$34,574.93**
$1,015.81	$1,572.71	$1,602.25	$2,607.01
$0.00	$19,260.00	$13,020.00	$3,240.00
$8,820.00	($8,820.00)	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$5,000.00	$15,443.88	$11,357.44	$13,341.59
$0.00	$0.00	$0.00	$0.00
$1,000.00	$1,500.00	$1,000.00	($22.55)
$11.46	$16.78	$6.44	$46.25
$15,847.27	**$28,973.37**	**$26,986.13**	**$19,212.30**
$887.09	$716.28	$1,038.77	$5,906.55
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$4,000.00	$4,000.00	$47,858.00	$9,608.00
$0.00	$0.00	$0.00	$0.00
$5,000.00	$10,000.00	$6,000.00	($2,898.70)
$0.00	$0.00	$0.00	$0.00
$15.54	$13.23	$101.01	$1,178.91
$9,902.63	**$14,729.51**	**$54,997.78**	**$13,794.76**
$2,398.06	$1,633.12	$1,509.35	$1,822.13
$0.00	$0.00	$0.00	$7,751.80
$0.00	$0.00	$3,518.40	$54,846.27
$0.00	$2,835.00	$1,417.50	$506.90
$0.00	$72,075.00	$229.40	($68,349.10)
$0.00	$0.00	$26,449.80	$20,286.82
$0.00	$0.00	$0.00	$0.00
$1,000.00	$1,500.00	$1,000.00	($633.30)
$16.07	$40.73	$6.71	$1,762.81
$3,414.13	**$78,083.85**	**$34,131.16**	**$17,994.33**
$1,031.58	$2,004.82	$2,431.47	$2,780.55
$0.00	$0.00	$0.00	$0.00
$160,864.00	$0.00	$81,167.00	$81,167.00
$0.00	$0.00	$81,167.00	($81,167.00)
$0.00	$0.00	$0.00	$0.00
$1,000.00	$2,000.00	$1,000.00	($425.70)

$8.62	$17.57	$17.24	$10.06
$162,904.20	**$4,022.39**	**$165,782.71**	**$2,364.91**
$1,491.62	$881.35	$1,289.28	$1,282.13
$0.00	$0.00	$0.00	$8.00
$0.00	$0.00	$36,571.42	$0.00
$18,285.71	$18,275.81	$19,467.71	($3,623.67)
$0.00	$0.00	$0.00	$0.00
$4,000.00	$4,000.00	$4,000.00	($3,383.30)
$9.07	$173.47	$3.61	$5.35
$23,786.40	**$23,330.63**	**$61,332.02**	**($5,711.49)**
$3,728.80	$11,866.87	$12,252.34	$10,377.57
$0.00	$0.00	$19,898.00	$10,332.38
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$113,323.00	$45,117.16	$40,628.82	$40,294.12
$0.00	$0.00	$10,977.38	$8,079.33
$6,500.00	$2,700.00	($4,000.00)	$1,300.00
$56.55	$970.69	$1,274.24	$859.99
$123,608.35	**$60,654.72**	**$81,030.78**	**$71,243.39**
$5,048.35	$11,954.23	$12,753.28	$10,788.70
$0.00	$0.00	$7,218.09	$1,870.41
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$153,680.00	$61,187.42	$54,602.62	$54,290.41
$0.00	$0.00	$0.00	$0.00
$7,000.00	$10,000.00	$9,000.00	$3,707.75
$22.67	$905.81	$1,086.54	$835.24
$165,751.02	**$84,047.46**	**$84,660.53**	**$71,492.51**
$683.03	$964.76	$1,060.99	$1,507.52
$0.00	$0.00	$0.00	$22,340.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$29,603.00	$11,786.54	$10,436.77	$23,415.36
$0.00	$0.00	$0.00	$0.00
$13,000.00	$15,000.00	$13,000.00	($2,719.23)
$3.39	$394.39	$3.96	$4.39
$43,289.42	**$28,145.69**	**$24,501.72**	**$44,548.04**
$1,268.50	$1,682.73	$1,391.53	$2,093.39
$0.00	$0.00	$0.00	$0.00
$6,598.18	$8,562.71	$8,562.71	$8,562.71
$22,157.27	$23,170.85	$23,106.63	$23,042.41
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$6,000.00	$7,000.00	$12,000.00	$7,012.35
$3.81	$23.08	$6.97	$93.22
$0.00	$0.00	$0.00	$0.00
$36,027.76	**$40,439.37**	**$45,067.84**	**$40,804.08**

$54.39	$120.09	$118.31	$212.85
$0.00	$0.00	$0.00	$0.00
$0.00	$183.45	$107.40	$144.70
$0.00	$330.00	$0.00	$0.00
$0.00	$695.00	$0.00	$695.00
$0.00	$0.00	$1,510.00	$1,355.00
$0.00	$0.00	$2,760.38	$782.00
$54.39	**$1,328.54**	**$4,496.09**	**$3,189.55**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$0.00**
$401.81	$801.24	$1,265.08	$1,048.96
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$1,077.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$183.00	$834.42	$144.94
$0.00	$0.00	$0.00	$0.00
$0.00	$724.38	$509.43	$209.59
$4.87	$6.80	$3.22	$46.18
$406.68	**$1,715.42**	**$3,689.15**	**$1,449.67**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$0.00**
$1,762.74	$5,158.60	$5,960.46	$5,430.07
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$12.47	$29.04	$21.16	$24.66
$1,775.21	**$5,187.64**	**$5,981.62**	**$5,454.73**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$0.00**
$2,014.06	$12,606.98	$14,514.26	$15,054.19
$0.00	$249.42	$0.00	$0.00
$0.00	$40.19	$51.60	$60.01
$2,014.06	**$12,896.59**	**$14,565.86**	**$15,114.20**

$690,703.23	***$467,323.96***	***$886,055.97***	***$588,061.52***

5,500.00	0.00	1,938.56	11,414.86
3,000.00	2,000.00	2,000.00	(2,300.00)
0.00	8,500.00	2,000.00	(1,870.09)
0.00	0.00	0.00	0.00
$ 8,500.00	**$ 10,500.00**	**$ 5,938.56**	**$ 7,244.77**

May Actual $ *(includes accruals)*	**June Actual $** *(includes accruals)*	**July Actual $** *(includes accruals)*	**August Actual $** *(includes accruals)*
$3,066.52	$2,731.64	$3,361.90	$3,100.84
$0.00	$2,820.00	$20,568.41	$16,563.29
$425.00	$16,685.00	($17,110.00)	$11,592.50
$21,000.00	$0.00	$17,760.88	$29,276.83
($15,139.00)	$6,732.78	$11,486.22	$409.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$14,336.27	$0.00
$2,000.00	$1,000.00	($8,310.00)	($255.01)
$0.28	$85.98	$166.72	$11.91
$11,352.80	**$30,055.40**	**$42,260.40**	**$60,699.36**
$2,385.28	$1,634.23	$2,613.24	$2,490.91
$0.00	$0.00	$68,684.70	$80,363.17
$47,397.00	($26,110.00)	$14,602.00	($35,889.00)
$0.00	$0.00	$105,902.69	$0.00
$14,903.00	$64,255.60	($134,549.60)	$58.00
$0.00	$2,330.31	$1,090.91	$10,023.66
$750.00	$800.00	$12,110.00	($8,550.59)
$89.81	$10.69	$107.72	$9.27
$65,525.09	**$42,920.83**	**$70,561.66**	**$48,505.42**
$7,102.64	$1,587.35	$2,068.42	$2,736.14
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$2,641.68
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$47,000.00	$26,100.00
($27,000.00)	$10,233.00	($38,900.00)	($15,183.00)
$0.00	$2,330.31	$1,090.91	$9,814.43
$750.00	($600.00)	$11,565.00	($7,522.69)
$15.83	$2,019.58	$586.18	$7.33
($19,131.53)	**$15,570.24**	**$23,410.51**	**$18,593.89**
$3,625.48	$1,036.57	$775.31	$1,342.01
$0.00	$0.00	$102,317.60	$1,050.30
$37,298.80	$0.00	($102,317.60)	$0.00
$0.00	$0.00	$57,304.50	$0.00
$20,889.75	$0.00	($57,304.50)	$0.00
$0.00	$2,770.75	$1,217.40	$5,866.96
$750.00	($3,000.00)	$6,060.00	($2,288.36)
$0.35	$16.26	$8,610.62	$2.75
$62,564.38	**$823.58**	**$16,663.33**	**$5,973.66**

$5,185.41	$4,509.65	$3,577.84	$5,384.24
$0.00	$0.00	$0.00	$0.00
$24,560.00	$11,800.00	$18,120.00	$17,360.00
($13,680.00)	($3,560.00)	$1,920.00	$3,440.00
$45,632.35	$52,102.51	$0.00	$90,704.85
($11,090.26)	$539.92	$35,184.47	($35,417.80)
$58.35	$0.00	$11,462.82	$2,981.22
$441.65	$1,000.00	($5,190.00)	$148.75
$0.42	$29.41	$0.00	$12.65
$51,107.92	**$66,421.49**	**$65,075.13**	**$84,613.91**
$3,877.69	$4,511.71	$2,589.50	$4,246.26
$10,620.00	$27,120.00	$12,840.00	$10,440.00
$16,440.00	($16,440.00)	$0.00	$9,420.00
$31,801.32	$13,341.59	$23,615.86	$10,244.76
($19,100.27)	($2,426.78)	($13,371.10)	$2,683.70
$477.45	$0.00	$6,479.93	$1,787.64
$22.55	$1,000.00	($955.00)	($1,526.51)
$0.35	$70.58	$0.00	$9.16
$44,139.09	**$27,177.10**	**$31,199.19**	**$37,305.01**
$7,112.53	$5,559.66	$6,980.51	$8,208.01
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$4,735.14
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$25,000.00	$30,100.00
($12,000.00)	$3,653.00	($21,400.00)	($25,721.00)
$101.30	$0.00	$21,171.18	$0.00
$1,398.70	$1,500.00	($16,265.00)	($1,208.64)
$0.00	$0.00	$0.00	$0.00
$0.70	$5,934.01	$1,797.88	$24.73
($3,386.77)	**$16,646.67**	**$17,284.57**	**$16,138.24**
$2,768.99	$3,017.57	$2,719.47	$3,116.16
$0.00	$52,840.48	$92,484.84	$8,884.12
$53,073.02	($77,310.31)	($25,195.94)	($4,184.39)
$0.00	$3,592.70	$13,069.10	$2,423.60
$6,600.29	$59,453.47	($69,393.01)	($284.90)
$18,565.45	$0.00	$0.00	$22,032.23
$116.70	$0.00	$5,069.70	$2,079.39
$133.30	$2,000.00	($300.00)	($1,064.81)
$0.21	$3,841.43	$6,402.82	$620.02
$81,257.96	**$47,435.34**	**$24,856.98**	**$33,621.42**
$4,567.06	$3,609.12	$2,325.11	$2,490.92
$0.00	$0.00	$0.00	$0.00
$0.00	$52,666.00	$257,179.86	$79,352.43
$52,666.00	$126,105.00	($176,883.86)	$943.57
$74.30	$0.00	$7,392.06	$2,986.49
$425.70	$3,000.00	($2,145.00)	($762.24)

$0.35	$20.47	$199.36	$8.23
$57,733.41	**$185,400.59**	**$88,067.53**	**$85,019.40**
$2,008.01	$956.52	$1,166.64	$908.84
$64,856.00	$64,680.00	$64,976.00	$63,760.00
$53,089.99	$0.00	$40,992.77	$0.00
($32,501.50)	$20,958.96	($19,863.02)	$27,793.41
$116.70	$0.00	$14,961.95	$7,145.60
$2,383.30	$2,000.00	($4,565.00)	($6,409.85)
$0.14	$9.00	$0.00	$4.14
$89,952.64	**$88,604.48**	**$97,669.34**	**$93,202.14**
$15,384.93	$10,770.04	$9,644.50	$12,021.15
$36,137.52	$40,273.00	$66,283.35	$100,004.18
$0.00	$37,003.50	($37,003.50)	$0.00
$0.00	$0.00	$280,534.60	$83,033.11
$41,420.51	$41,049.36	($238,202.96)	($39,948.30)
$0.00	$5,363.75	$1,290.14	$16,343.32
$3,500.00	($300.00)	$8,625.00	$4,068.02
$502.44	$728.19	$810.28	$658.90
$96,945.40	**$134,887.84**	**$91,981.41**	**$176,180.38**
$16,427.59	$10,892.65	$9,545.07	$12,456.87
$30,439.97	$25,839.85	$39,923.47	$179,787.61
$0.00	$6,474.37	($6,474.37)	$0.00
$0.00	$0.00	$379,941.73	$111,391.10
$56,462.47	$55,189.86	($323,403.97)	($46,684.93)
$7,707.75	$0.00	$31,508.26	$5,055.23
($6,707.75)	$3,000.00	($17,920.00)	$137.30
$576.93	$661.05	$880.54	$652.95
$104,906.96	**$102,057.78**	**$114,000.73**	**$262,796.13**
$3,778.03	$2,351.90	$2,316.76	$2,686.87
$14,374.00	$15,539.00	$10,517.25	$11,343.00
$0.00	$5,664.25	($5,664.25)	$0.00
$0.00	$0.00	$74,163.10	$21,896.10
$11,091.64	($814.67)	($63,346.32)	($11,041.05)
$6,280.77	$0.00	$54,445.45	$9,076.10
($3,780.77)	$2,500.00	($27,260.00)	($5,047.85)
$0.21	$16.95	$0.00	$8.20
$31,743.88	**$25,257.43**	**$45,171.99**	**$28,921.37**
$1,943.10	$637.06	$1,165.78	$1,239.91
$0.00	$0.00	$0.00	$0.00
$8,562.71	$8,562.71	$8,562.71	$24,667.46
$22,978.19	$22,914.01	$22,849.77	$89,734.53
$0.00	$0.00	$0.00	$0.00
$9,012.34	$0.00	$20,837.92	$116.70
($1,512.35)	$1,000.00	($28,500.00)	($1,824.95)
$0.21	$8.74	$0.00	$4.14
$0.00	$0.00	$0.00	$4,382.47
$40,984.20	**$33,122.52**	**$24,916.18**	**$118,320.26**

$160.72	$2,541.37	$406.22	$2,558.17
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$190.00	$140.00	$0.00	$6,221.55
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$213.52	$20.00	$757.44
$350.72	**$2,894.89**	**$426.22**	**$9,537.16**
$0.00	$0.00	$0.00	$0.00
$43,893.33	$106,250.00	$4,600.00	$4,600.00
$0.00	$0.00	$0.00	$0.00
$43,893.33	**$106,250.00**	**$4,600.00**	**$4,600.00**
$1,002.90	$384.45	$997.52	$219.07
$0.00	$527.09	$5,575.00	$1,641.13
$0.00	$3,950.00	$4,849.75	$1,353.50
$39,500.00	$0.00	$0.00	$0.00
$13,523.34	$6,085.42	$983.88	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$15,500.00	$0.00
$88.79	$127.88	$975.00	$143.67
$0.00	$5,150.00	$0.00	$2,575.00
$0.00	$0.00	($265.99)	$1,687.45
$0.14	$34.25	$0.00	$3.51
$54,115.17	**$16,259.09**	**$28,615.16**	**$7,623.33**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$0.00**
$8,832.30	$5,646.88	$6,060.32	$6,179.92
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$8,217.50
$0.70	$39.57	$155.80	$1,499.35
$8,833.00	**$5,686.45**	**$6,216.12**	**$15,896.77**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$0.00**
$22,413.60	$10,416.34	$11,298.58	$11,670.00
$199.88	$33.75	$101.38	$0.00
$1.89	$100.46	$0.00	$40.02
$22,615.37	**$10,550.55**	**$11,399.96**	**$11,710.02**

$845,503.02	***$958,022.27***	***$804,376.41***	***$1,119,257.87***

750.00	(69.69)	9,535.91	3,067.46
250.00	0.00	2,508.27	
1,000.00	0.00	6,733.33	
0.00	0.00	1,929.23	
$ 2,000.00	**$ (69.69)**	**$ 20,706.74**	**$ 3,067.46**

September Actual $ *(includes accruals)*	**October Actual $** *(includes accruals)*	**November Actual $** *(includes accruals)*	**December Actual $** *(includes accruals)*
$3,849.72	$3,856.52	$1,625.97	$574.93
$20,000.58	$22,757.66	$8,676.34	$18,317.13
($4,091.00)	($916.50)	$4,395.00	$8,744.50
$7,142.24	$0.00	$0.00	$0.00
($21,918.00)	$18,497.03	$11,421.86	$9,746.16
$0.00	$0.00	$0.00	$7,605.34
$1,034.41	$116.70	$498.66	$350.10
$1,065.01	($1,000.00)	$1,000.00	($1,533.20)
$8.89	$9.57	$16.34	$30.05
$7,091.85	**$43,320.98**	**$27,634.17**	**$43,835.01**
$2,587.57	$4,365.23	$4,803.01	$4,832.59
($3,379.02)	$32,280.05	$34,524.60	$70,810.80
$49,280.00	$36,274.80	($14,744.00)	$104,143.60
$0.00	$35,676.72	$0.00	$0.00
$19,219.00	($904.17)	$21,022.17	$25,868.62
$9,181.23	$1,400.40	$1,750.50	$3,769.55
$1,190.59	($1,000.00)	$17,000.00	($4,841.39)
$7.13	$6.73	$47.52	$207.95
$78,086.50	**$108,099.76**	**$64,403.80**	**$204,791.72**
$2,843.51	$3,869.93	$2,044.13	$6,745.42
$0.00	$0.00	$0.00	$509.03
$2,325.72	$2.84	$0.00	$0.00
($2,641.68)	$3,403.13	$379.57	$2,355.01
$1,623.00	($0.32)	($309.03)	($124.16)
$0.00	$0.00	$0.00	$0.00
$6,219.00	$12,162.07	$867.26	$6,564.88
$6,926.79	$758.55	$466.80	$1,365.94
($292.31)	($1,000.00)	$10,000.00	($10,008.05)
$98.14	$357.39	$20.33	$6,992.51
$17,102.17	**$19,553.59**	**$13,469.06**	**$14,400.58**
$1,382.29	$1,545.70	$1,370.81	$859.56
($1,050.30)	$1,596.15	($1,596.15)	$0.00
$0.00	$96,309.82	$13,570.18	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$68,367.00	$9,633.00	$0.00
$6,064.73	$560.10	$1,596.15	$758.55
($4,021.64)	$0.00	$2,000.00	($2,033.20)
$3.87	$3.62	$13.61	$38.38
$2,378.95	**$168,382.39**	**$26,587.60**	**($376.71)**

$6,008.21	$6,567.99	$1,935.85	$1,635.46
$0.00	$0.00	$0.00	$1,480.00
$15,240.00	$16,916.80	$9,360.00	$6,760.00
$3,760.00	($3,400.00)	($3,640.00)	($4,160.00)
$0.00	$51,689.31	$31,901.55	$0.00
$48,171.25	($12,576.91)	$23,224.40	($31,521.67)
$1,458.75	$3,608.35	$0.00	$933.60
$3,541.25	($4,500.00)	$1,500.00	($2,683.10)
$103.91	$153.38	$19.43	$70.52
$78,283.37	**$58,458.92**	**$64,301.23**	**($27,485.19)**
$2,787.51	$4,946.10	$3,480.41	$2,369.69
$12,480.00	$8,280.00	$34,140.00	$70,260.00
($7,260.00)	$20,040.00	($4,560.00)	($17,640.00)
$13,612.55	$8,539.80	$16,110.97	$17,280.92
($6,384.33)	$9,740.49	$996.30	$7,298.67
$1,018.49	$1,570.17	$0.00	$1,691.73
$1,481.51	$1,500.00	$3,000.00	($6,416.50)
$54.73	$7.50	$34.59	$108.78
$17,790.46	**$54,624.06**	**$53,202.27**	**$74,953.29**
$8,626.39	$11,489.99	$9,271.65	$14,226.26
$0.00	$0.00	$0.00	$509.03
$1,599.04	$1.95	$0.00	$0.00
($2,312.79)	$9,750.16	$8,700.33	$10,120.16
$4,295.00	$16,778.59	($20,454.84)	$10,967.65
$0.00	$0.00	$0.00	$0.00
$11,301.00	$2,856.59	$12,647.26	($2,055.03)
$4,339.15	$1,517.10	$466.80	$2,702.78
$973.64	$500.00	$10,000.00	($7,287.89)
$9,716.01	$0.00	$0.00	$0.00
$294.74	$1,051.48	$91.72	$6,229.39
$38,832.18	**$43,945.86**	**$20,722.92**	**$35,412.35**
$2,930.60	$6,740.01	$4,815.56	$2,269.64
$4,668.86	$26,217.52	$16,834.51	$38,376.03
$21,470.47	($9,383.01)	$21,650.58	($29,178.45)
$2,136.85	$3,659.40	$3,006.35	$4,588.10
$1,517.00	($653.05)	$1,589.15	($2,121.95)
$25,101.12	$19,438.08	$9,954.10	$0.00
$1,135.19	$9,812.40	$0.00	$1,283.70
$2,864.81	($4,500.00)	$2,000.00	($1,416.50)
$455.79	$1,879.73	$1,193.71	$2,699.52
$62,280.69	**$53,211.08**	**$61,043.96**	**$16,500.09**
$2,379.82	$2,462.81	$666.64	$0.00
$0.00	$0.00	$0.00	$2,880.00
$79,352.43	$79,352.43	$79,352.43	$79,352.43
$943.57	$943.57	$943.57	$943.57
$1,092.76	$2,991.90	$0.00	$1,177.65
$4,907.24	($4,000.00)	$2,500.00	($4,013.33)

$7.13	$5.93	$6.73	$2.01
$88,682.95	**$81,756.64**	**$83,469.37**	**$80,342.33**
$2,059.42	$2,911.37	$2,530.54	$2,296.63
$63,272.00	$32.00	$8.00	$0.00
$20,614.46	$41,534.87	$18,267.56	$18,285.71
$1,388.00	($29,181.41)	($2,714.29)	$0.29
$525.15	$816.90	$0.00	$3,955.66
$2,974.85	($3,000.00)	$4,000.00	($3,797.14)
$2.63	$5.25	$25.08	$95.80
$90,836.51	**$13,118.98**	**$22,116.89**	**$20,836.95**
$12,375.00	$18,680.42	$12,401.41	$13,580.87
$106,896.95	$256,770.61	$180,907.15	$492,479.52
$101,898.00	($101,898.00)	$400.00	$16,210.50
$42,771.44	$46,020.65	$44,293.60	$44,042.10
$3,923.61	$591.18	($1,632.67)	$15,651.65
$17,385.80	$17,070.51	$0.00	$11,799.24
($7,393.02)	$5,000.00	$15,000.00	($10,723.59)
$706.37	$596.52	$476.38	$1,279.44
$278,564.15	**$242,831.89**	**$251,845.87**	**$584,319.73**
$13,055.76	$18,737.18	$12,135.21	$12,650.13
$37,276.41	$234,231.91	$131,591.22	$1,047,094.80
$41,456.10	($41,456.10)	$87,550.98	$6,026.58
$63,653.67	$58,359.19	$64,310.61	$65,696.03
($4,830.27)	$7,076.91	$2,664.85	$42,570.11
$2,217.30	$10,848.13	$0.00	$7,737.99
$3,782.70	($6,000.00)	$6,000.00	($1,915.96)
$553.26	$589.67	$576.21	$1,228.33
$157,164.93	**$282,386.89**	**$304,829.08**	**$1,181,088.01**
$4,388.83	$6,282.56	$4,355.74	$4,568.96
$29,205.00	$9,995.32	$30,479.50	$87,299.20
$0.00	$0.00	$0.00	$0.00
$10,813.23	$11,293.32	$10,899.23	$11,393.16
$575.26	($342.71)	$4,316.88	($974.03)
$1,692.15	$5,379.03	$0.00	$4,840.96
$2,307.85	($1,000.00)	$5,000.00	($4,637.87)
$7.70	$11.24	$43.24	$192.93
$48,990.02	**$31,618.76**	**$55,094.59**	**$102,683.31**
$703.49	$1,876.87	$2,800.09	$2,528.74
$0.00	$0.00	$0.00	$0.00
$13,792.78	$14,548.77	$14,560.89	$14,559.07
$38,688.97	$46,931.09	$45,229.47	$45,108.82
$0.00	$0.00	$0.00	$0.00
$175.05	$17,149.45	$0.00	$2,355.20
$824.95	$6,000.00	$8,000.00	($7,883.30)
$3.56	$2.10	$27.61	$107.95
$6,003.38	$8,471.35	$5,430.66	$5,837.18
$60,192.18	**$94,979.63**	**$76,048.72**	**$62,613.66**

$13,679.92	$10,110.26	$3,864.18	$132.27
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$600.00	$0.00	$0.00	$3,945.00
$0.00	$199.00	$1,595.00	$0.00
$355.00	$405.00	$0.00	$0.00
$389.31	$1,338.90	$1,969.37	$1,902.11
$15,024.23	**$12,053.16**	**$7,428.55**	**$5,979.38**
$303.88	$0.00	$0.00	$0.00
$4,600.00	$13,800.00	$0.00	$0.00
$0.00	$0.83	$0.00	$0.00
$4,903.88	**$13,800.83**	**$0.00**	**$0.00**
$280.05	$12,222.34	$10,019.41	$10,902.20
$2.50	$0.00	$6,281.00	$0.00
$1,003.75	$4,750.00	($62.50)	$3,112.50
$0.00	$0.00	$76,989.00	$0.00
$0.00	$0.00	$0.00	$1,950.00
$0.00	$0.00	$26,011.00	$0.00
$0.00	$0.00	$15,000.00	$4,000.00
$66.64	$202.99	$0.00	$1,545.00
$0.00	$0.00	$2,575.00	$0.00
$0.00	$180.13	$85.08	$0.00
$0.64	$3.17	$248.25	$460.18
$1,353.58	**$17,358.63**	**$137,146.24**	**$21,969.88**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$100,890.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$100,890.00**
$5,757.13	$8,019.13	$5,685.55	$4,969.07
$0.00	$0.00	$0.00	$0.00
$8,217.50	$0.00	$0.00	$1,467.39
($8,217.50)	$0.00	$0.00	$0.00
$17.69	$14.56	$82.50	$211.71
$5,774.82	**$8,033.69**	**$5,768.05**	**$6,648.17**
$0.00	$0.00	$0.00	$0.00
$0.00	$0.00	$0.00	$45,000.00
$0.00	$0.00	$0.00	$0.00
$0.00	**$0.00**	**$0.00**	**$45,000.00**
$10,967.41	$8,740.40	$4,064.71	$0.00
$0.00	$0.00	$0.00	$42.70
$33.40	$26.56	$55.77	$12.12
$11,000.81	**$8,766.96**	**$4,120.48**	**$54.82**

$1,064,334.23	***$1,356,302.70***	***$1,279,232.85***	***$2,574,457.38***

(7.21)			
$ (7.21)	**$ -**	**$ -**	**$ -**

Per 12

2015 Actual $s Booked in 2016	2015 Year-to-Date Actual $ *(includes accruals)*
$0.00	$28,625.08
$24,471.65	$134,175.06
($19,724.50)	$0.00
$55,246.98	$130,426.93
($54,236.05)	$0.00
($99.00)	$7,506.34
$466.80	$16,802.94
$1,499.92	$2,466.72
$417.85	$804.55
$8,043.65	**$320,807.62**
$0.00	$28,859.12
$198,860.10	$482,144.40
($174,954.40)	$0.00
$102,935.86	$244,515.27
($100,872.62)	$0.00
$29,366.44	$72,651.89
($20,158.61)	$0.00
$0.00	$599.20
$35,176.77	**$828,769.88**
$0.00	$33,992.46
$160.00	$669.03
$0.00	$2,328.56
$3,263.05	$9,400.76
($1,189.49)	$0.00
$43,806.84	$116,906.84
($46,963.21)	$0.00
$3,739.77	$43,024.10
($5,991.95)	$0.00
$0.00	$11,644.59
($3,174.99)	**$217,966.34**
$0.00	$22,118.22
$109,880.00	$348,734.00
($109,880.00)	$0.00
$78,000.00	$211,773.75
($78,000.00)	$0.00
$2,042.25	$33,386.73
($1,966.80)	$0.00
$9,169.20	$29,397.09
$9,244.65	**$645,409.79**

$0.00	$44,437.05
$720.00	$2,200.00
$0.00	$128,996.80
$0.00	$0.00
$94,098.55	$366,129.12
($94,098.55)	$0.00
$4,600.30	$25,103.39
($1,816.90)	$0.00
$0.00	$494.32
$3,503.40	**$567,360.68**
$0.00	$35,606.65
$0.00	$221,700.00
$0.00	$0.00
$33,549.59	$168,097.36
($24,579.59)	$0.00
$1,400.40	$14,425.81
($1,583.50)	$0.00
$0.00	$366.62
$8,786.90	**$440,196.44**
$0.00	$80,023.69
$480.00	$989.03
$0.00	$1,600.99
$24,069.41	$55,062.41
($11,586.40)	$0.00
$31,232.54	$86,332.54
($34,747.82)	$0.00
$6,868.38	$37,166.69
($7,712.11)	$0.00
$0.00	$9,716.01
$0.00	$16,733.34
$8,604.00	**$287,624.70**
$0.00	$35,740.66
$9,306.64	$257,364.80
($9,306.64)	($0.00)
$662.30	$37,897.80
($662.30)	$0.00
$8,186.09	$150,013.69
$1,925.55	$21,422.63
($2,583.50)	$0.00
$633.00	$19,552.55
$8,161.14	**$521,992.13**
$0.00	$26,749.90
$102,174.73	$105,054.73
$0.00	$1,029,806.01
$0.00	$6,604.99
$7,377.83	$23,092.99
($3,486.67)	$0.00

$0.00	$303.70
$106,065.89	**$1,191,612.32**
$0.00	$19,782.35
$0.00	$321,592.00
$18,285.71	$247,642.49
($18,286.00)	$0.00
$1,052.96	$28,574.92
($2,202.86)	$0.00
$0.00	$333.54
($1,150.19)	**$617,925.30**
$0.00	$143,083.90
$16,610.50	$1,326,593.16
($16,610.50)	$0.00
$62,215.48	$602,910.98
($62,215.48)	$0.00
$26,764.94	$115,074.41
($24,276.41)	$0.00
$0.00	$8,919.99
$2,488.53	**$2,196,582.44**
$0.00	$146,445.02
$93,577.56	$1,828,851.30
($93,577.56)	$0.00
$112,805.49	$856,157.82
($112,805.48)	$0.00
$11,111.34	$76,186.00
($10,084.04)	$0.00
$0.00	$8,569.20
$1,027.31	**$2,916,209.34**
$0.00	$34,945.95
$0.00	$231,092.27
$0.00	$0.00
$14,706.63	$155,164.77
($14,706.67)	$0.00
$9,769.31	$91,483.77
($6,362.13)	$0.00
$0.00	$686.60
$3,407.14	**$513,373.36**
$0.00	$19,331.19
$0.00	$0.00
$0.00	$140,103.41
$1,022.92	$426,934.93
$0.00	$0.00
$175.05	$49,821.71
($8,116.70)	$0.00
$0.00	$281.39
$0.00	$30,125.04
($6,918.73)	**$666,597.67**

$0.00	$33,958.75
$0.00	$0.00
$0.00	$435.55
$0.00	$11,426.55
$0.00	$3,184.00
$0.00	$3,625.00
$0.00	$10,133.03
$0.00	**$62,762.88**
$0.00	$303.88
$0.00	$177,743.33
$0.00	$0.83
$0.00	**$178,048.04**
$0.00	$39,545.03
$0.00	$14,026.72
$0.00	$18,957.00
$0.00	$116,489.00
$0.00	$23,619.64
$0.00	$26,011.00
$0.00	$34,500.00
$0.00	$4,312.33
$0.00	$10,300.00
$0.00	$3,130.07
$0.00	$811.21
$0.00	**$291,702.00**
$0.00	$0.00
$100,890.00	$100,890.00
($100,890.00)	$0.00
$0.00	$0.00
$0.00	**$100,890.00**
$0.00	$69,462.17
$0.00	$0.00
$0.00	$9,684.89
$0.00	$0.00
$0.00	$2,109.21
$0.00	**$81,256.27**
$0.00	$0.00
$0.00	$45,000.00
$0.00	$0.00
$0.00	**$45,000.00**
$0.00	$123,760.53
$0.00	$627.13
$0.00	$422.02
$0.00	**$124,809.68**

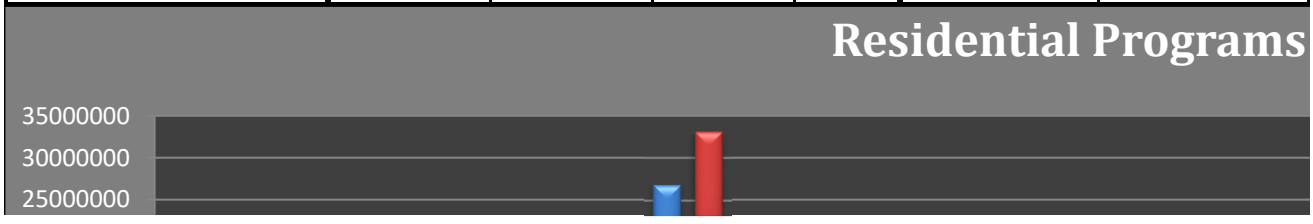
$183,265.47	***$12,816,896.88***

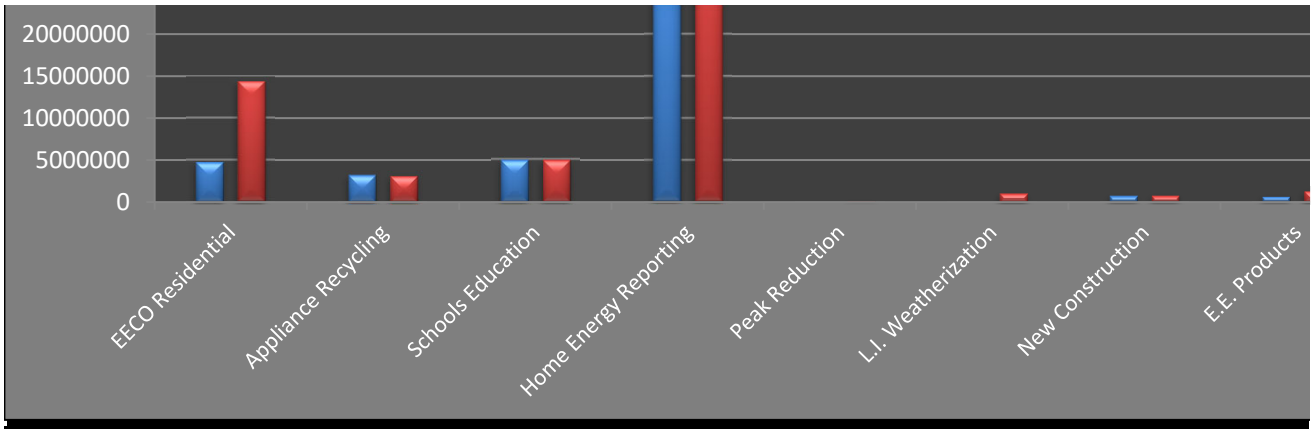
	$32,129.89	
	$7,458.27	
	$16,363.24	
	$1,929.23	
$ -	**$ 57,880.63**	$12,874,777.51

:/2016 YE Over / Under		
Program Expenses	11,793,957.62	
Res Peak Bill Credits	321,592.00	
EECO Costs	566,015.42	
2016 Costs pulled back	183,265.47	12,864,830.51

9947

	Measures Implemented				Program Budget Ex	
Program	Current Month	YTD	Planning Goal	% to Goal	Current Month Actuals	YTD
Prescriptive Rebates	31,967	76,661	0		$586,808	$2,196,582
Custom Program	17,450	26,987	0		$1,182,115	$2,916,209
Small Business Direct Instal	2,749	7,227	0		$106,090	$513,373
EECO Commerical	18	18	27	67%	$4,656	$55,728
Subtotal	**52,184**	**110,893**			**$1,879,670**	**$5,681,893**
EECO Residential					$51,039	$610,870
Appliance Recycling	0	3,289	3,350	98%	-$24,142	$567,361
Online Check-up	358	9,588	11,423	84%	$24,661	$521,992
Schools Education	0	11,755	11,755	100%	$6,830	$645,410
Home Energy Reporting	155,458	155,458	145,000	107%	$89,260	$1,191,612
Peak Reduction	0	8,014	9,000	89%	$19,687	$617,925
L.I. Weatherization	3,714	3,801		#DIV/0!	$11,066	$217,966
Weatherization	64,468	65,328		#DIV/0!	$43,287	$287,625
New Construction	104	445	449	99%	$74,770	$440,196
E.E. Products	265	1,378	1,183	116%	$51,461	$320,808
Lighting	122,130	377,535	513,715	73%	$239,968	$828,770
Subtotal	**346,497**	**636,591**	**695,875**	**91%**	**$587,888**	**$6,250,535**
Staff Dev. & Prof. Organizati					$5,979	$62,763
Computer System Developn					$0	$178,048
Marketing & Cust. Awarene:					$21,970	$291,702
New Program Development					$45,000	$45,000
Potential Studies					$100,890	$100,890
Planning & Analytic Suppor					$6,648	$81,256
Budgeting & Acct. Support					$55	$124,810
Subtotal					**$180,542**	**$884,469**
Total Residential	346,497	636,591	695,875	91%	$587,888	$6,250,535
Total C&I	52,184	110,893			$1,292,862	$5,681,893
Total Portfolio	***346,497***	***636,591***	***695,875***	***91%***	***$2,648,100***	***$12,816,897***

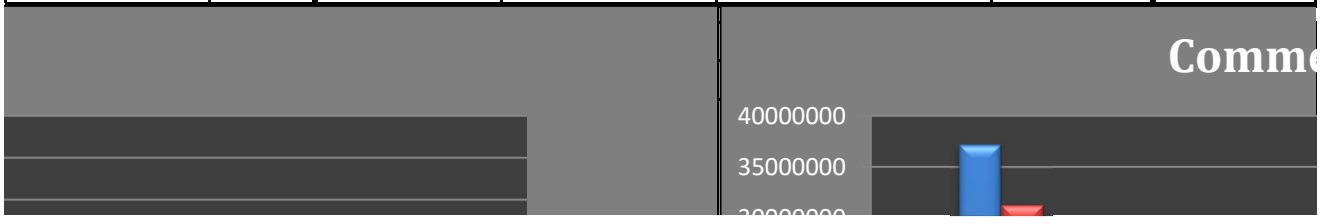


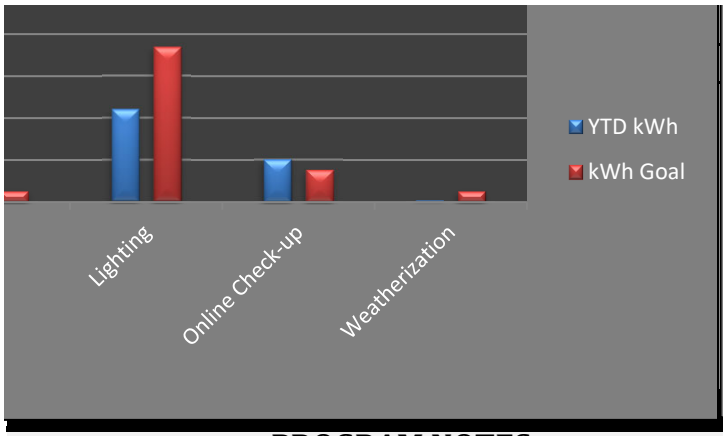


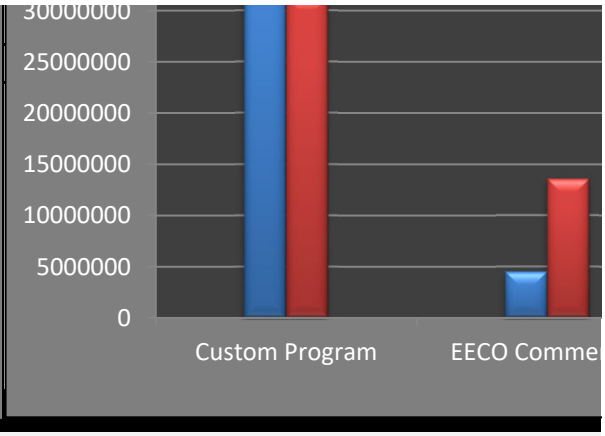
EECO	Participants = Number of Circuits with VVO equipment; Budget Expenditures are split
Home Energy Reports	Program Savings are based on total # of active participants which is fluid based on opt
Peak Reduction	YTD participants includes all that have enrolled since 2012; minus opt outs, move outs
Total Portfolio	% to Goal for Measures doesn't include Commercial Measures

I&M
DSM/EE Program Scorecard
December 2015
Program Year 6: January 1, 2015 - December 31, 2015

penditures		Gross Energy Impacts (kWh)				Gross
Budget	% to Goal	Current Month kWh Savings	YTD	Energy Savings Goal	% to Goal	Current Month kW Savings
C&I Programs						
$2,763,894	79%	11,009,380	25,071,645	29,000,000	86%	2,219
$2,704,917	108%	24,111,163	37,067,927	31,363,636	118%	3,265
$823,042	62%	979,456	2,490,985	3,067,134	81%	235
$107,393	52%	929,226	5,353,106	13,581,338	39%	160
$6,399,246	**89%**	**37,029,224**	**69,983,663**	**77,012,108**	**91%**	**5,879**
Residential Programs						
$1,177,207	52%	982,761	5,661,516	14,371,293	39%	166
$648,693	87%	0	3,113,940	3,068,260	101%	0
$676,785	77%	110,123	3,414,869	3,865,320	88%	18
$647,775	100%	0	3,578,106	4,962,843	72%	0
$1,181,647	101%	2,792,172	26,810,824	33,000,000	81%	341
$824,835	75%	0	31,496	112,014	28%	0
$1,205,905	18%	30,340	36,442	1,029,804	4%	2
$1,432,478	20%	158,792	197,978	1,276,803	16%	15
$492,422	89%	163,148	719,602	731,022	98%	98
$371,264	86%	144,211	654,713	1,294,877	51%	29
$1,072,014	77%	3,759,452	11,077,430	18,452,000	60%	446
$9,731,025	**64%**	**8,141,000**	**55,296,917**	**82,164,236**	**67%**	**1,115**
INDIRECT COSTS						
$65,000	97%					
$200,000	89%					
$300,000	97%					
$50,000	90%					
$65,000	155%					
$100,000	81%					
$125,000	100%					
$905,000	**98%**					
PORTFOLIO TOTALS						
$9,731,025	64%	8,141,000	55,296,917	82,164,236	67%	1,115
$6,399,246	89%	37,029,224	69,983,663	77,012,108	91%	5,879
$17,035,271	***75%***	***45,170,223***	***125,280,580***	***159,176,344***	***79%***	***6,994***







PROGRAM NOTES:

t 91.64% Residental, 8.36% Commercial

t outs & move outs / Updated Opower savings with final ytd totals received in August.

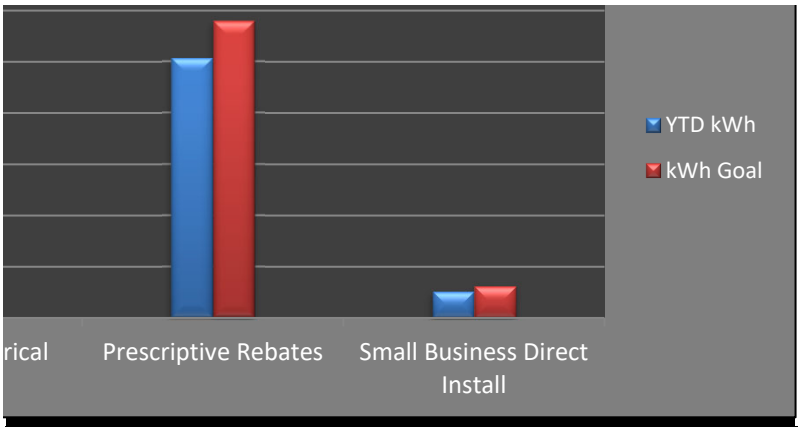
s, & removals.

Demand Impacts (kW)				Net kWh	Net kW
YTD	Demand Savings Goal	% to Goal	NTG Ratio	YTD	YTD
5,736	5,600	102%	0.81	20,308,032	4,646
5,034	5,021	100%	0.99	36,697,248	4,983
629	349	180%	1	2,490,985	629
920	2,810	33%	1	5,353,106	920
12,319	**13,780**	**89%**		**64,849,372**	**11,178**
956	3,044	31%	1	5,661,516	956
368	361	102%	0.72	2,242,037	265
372	483	77%	0.85	2,902,639	316
509	705	72%	0.997	3,567,372	507
3,636	3,762	97%	1	26,810,824	3,636
5,632	5,670	99%	1	31,496	5,632
2	109	2%	1	36,442	2
19	395	5%	0.72	142,544	14
534	545	98%	0.8	575,682	427
89	397	22%	0.52	340,451	46
1,319	2,300	57%	0.5	5,538,715	660
13,436	**17,771**	**76%**		**47,849,717**	**12,461**

RD SUMMARY

13,436	17,771	76%		47,849,717	11,178
12,319	13,780	89%		64,849,372	12,461
25,755	***31,551***	***82%***		***112,699,089***	***23,640***

ercial Programs


YTD kWh
kWh Goal
rical
Prescriptive Rebates
Small Business Direct Install

10/6/2020