

STATE OF INDIANA

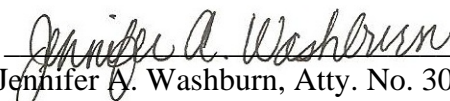
INDIANA UTILITY REGULATORY COMMISSION

IN THE MATTER OF THE VERIFIED PETITION OF )  
INDIANA MICHIGAN POWER COMPANY FOR )  
APPROVAL OF AN ADJUSTMENT TO ITS RATES )  
THROUGH ITS DEMAND SIDE MANAGEMENT )  
AND ENERGY EFFICIENCY PROGRAM COST )  
RIDER COMMENCING WITH THE BILLING )  
MONTH OF JANUARY 2016 AND FOR APPROVAL )  
OF ALTERNATIVE REGULATORY PLAN FOR )  
DEMAND SIDE MANAGEMENT (DSM) AND ) CAUSE NO. 43827 DSM 5  
ENERGY EFFICIENCY (EE) PROGRAMS FOR 2016 )  
AND ASSOCIATED ACCOUNTING AND )  
RATEMAKING MECHANISMS, INCLUDING )  
TIMELY RECOVERY THROUGH I&M'S DSM/EE )  
PROGRAM COST RIDER OF ASSOCIATED COSTS, )  
INCLUDING ALL PROGRAM COSTS, NET LOST )  
REVENUE, SHAREHOLDER INCENTIVES AND )  
CARRYING CHARGES, DEPRECIATION ON )  
CAPITAL EXPENDITURES AND OPERATIONS AND )  
MAINTENANCE EXPENSE. )

**SUBMISSION OF WORKPAPERS**

Citizens Action Coalition of Indiana, Inc. ("CAC"), respectfully submits the workpapers of Natalie A. Mims in the above referenced Cause to the Indiana Utility Regulatory Commission ("Commission").

Respectfully submitted,

  
Jennifer A. Washburn, Atty. No. 30462-49  
Citizens Action Coalition of Indiana, Inc.  
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## **CERTIFICATE OF SERVICE**

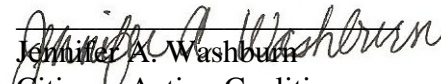
The undersigned hereby certifies that the foregoing was served by electronic mail or U.S.

Mail, first class postage prepaid, this 15<sup>th</sup> day of January, 2016, to the following:

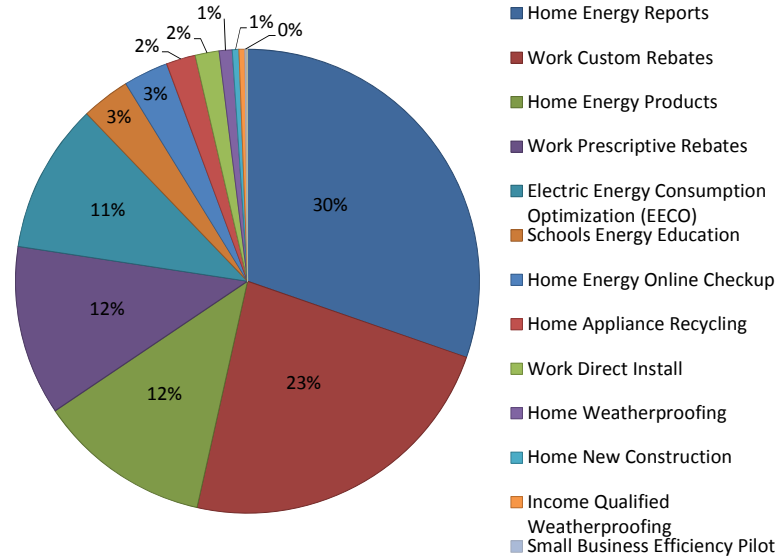
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Jennifer A. Washburn  
Citizens Action Coalition

	B	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Indiana Michigan Power Company - Indiana					Attachment JCW-2												
2	Demand Side Management - 2016 1 Year Plan					use No. 43827 DSN												
3	2016 DSM Plan Summary																	
4																		
5	I&M Indiana DSM Direct Program	2016 Energy Savings (kWh)	2016 Demand Savings (kW)	Annual Cost of Conserved Energy (cents/kwh)	Lifetime Cost of Conserved Energy (cents/kwh)													
6	DSM Program Portfolio Total	0	0	#DIV/0!	0.000													
7	Home Energy Reports	42,867,000	4,887	0.02	0.02													
8	Work Custom Rebates	32,758,023	7,017	0.11	0.01													
9	Home Energy Products	17,054,836	2,167	0.10	0.02													
10	Work Prescriptive Rebates	16,760,429	2,850	0.11	0.01													
11	Electric Energy Consumption Optimization (EECO)	14,735,618	5,263	0.07	0.004													
12	Schools Energy Education	4,784,890	660	0.13	0.02													
13	Home Energy Online Checkup	4,407,578	455	0.13	0.02													
14	Home Appliance Recycling	2,902,619	344	0.19	0.03													
15	Work Direct Install	2,346,372	334	0.19	0.02													
16	Home Weatherproofing	1,281,323	44	0.45	0.04													
17	Home New Construction	651,753	398	0.63	0.03													
18	Income Qualified Weatherproofing	588,874	22	0.96	0.06													
19	Small Business Efficiency Pilot	135,556	186	1.45	1.48													
20	Residential Peak Reduction	66,505	5,645	10.37	8.11													
21	Home Comfort & Efficiency Pilot	39,107	22	5.42	0.29													
22																		
23	Portfolio Level Expenses (Indirect Programs)	141,380,484																
24	Information Technology & Systems																	
25	Staff Development & Memberships																	
26	Potential Studies																	
27	Marketing & Customer Awareness																	
28	Planning & Analytic Support																	
29	New Program Development																	
30	Budgeting & Accounting Support																	
31	Total Portfolio Level Expenses																	
33	Total I&M Indiana DSM Portfolio																	
34	Count of Direct Programs																	
35																		
36																		
37																		
38																		
39																		
40																		
41						1000000												
42																		
43	I&M Indiana DSM Direct Program	kWh				Percentage of Portfolio Savings			GWh				Action Plan %					
44	Home Energy Reports	2016 Goal	2016 Action Plan	2015 YTD	2014 Savings	2014	2015	2016	2014	2015	2016							
45	Work Custom Rebates	42,867,000	7,517,350	21,707,865	23,776,713	19%	31%	30%	24	22	43	3%						
46	Home Energy products lighting	32,758,023	62,109,264	9,306,059	15,441,575	12%	13%	23%	15	9	33	26%						
47	C&I Retro Commissioning Lite	16,216,832	20,277,370	5,610,078	15,747,122	12%	8%	11%	16	6	16	9%						
48	Work Prescriptive Rebates	0	50,030,724	0	20,685,678	16%	0%	0%	21	0	0	21%						
49	Electric Energy Consumption Optimization (EECO)	16,760,429	46,603,172	11,672,369	23,782,606	19%	17%	12%	24	12	17	20%						
50	Schools Energy Education	14,735,618	0	6,453,066	7,733,573	6%	9%	10%	8	6	15	0%						
51	Home Energy Online Checkup	4,784,890	1,730,874	4,754,282	1,736,190	1%	7%	3%	2	5	5	1%						
52	Home Appliance Recycling	4,407,578	562,713	4,330,779	2,818,382	2%	6%	3%	3	4	4	0%						



	B	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V																																																																																																																													
53	Work Direct Install	2,902,619	7,204,260	2,966,424	4,029,025	3%	4%	2%	4	3	3	3%																																																																																																																																			
54	Home Weatherproofing	2,346,372	0	1,271,102	3,045,736	2%	2%	2%	3	1	2	0%																																																																																																																																			
55	Home New Construction	1,281,323	2,956,530	39,189	1,401,869	1%	0%	1%	1	0	1	1%																																																																																																																																			
56	Income Qualified Weatherproofing	651,753	477,086	459,839	369,415	0%	1%	0%	0	0	1	0%																																																																																																																																			
57	Residential Peak Reduction	588,874	2,287,060	5,068	1,529,696	1%	0%	0%	2	0	1	1%																																																																																																																																			
58	Home energy products products	66,505	0	31,496	62,367	0%	0%	0%	0	0	0	0%																																																																																																																																			
59	Small Business Efficiency Pilot	838,004	15,287,886	430,256	524,551	0%	1%	1%	1	0	1	6%																																																																																																																																			
60	Home Comfort & Efficiency Pilot	135,556	0	0	0	0%	0%	0%	0	0	0	0%																																																																																																																																			
61	Home Energy Audit	39,107	0	0	0	0%	0%	0%	0	0	0	0%																																																																																																																																			
62	C&I HVAC & Refrigeration	0	2,535,645	0	2,181,517	2%	0%	0%	2	0	0	1%																																																																																																																																			
63	Renewables & Demonstrations	0	9,881,055	0	12,985	0%	0%	0%	0	0	0	4%																																																																																																																																			
64	School Audit	0	17,895	0	40,956	0%	0%	0%	0	0	0	0%																																																																																																																																			
65	C&I Audit	0	122,816	0	516,338	0%	0%	0%	1	0	0	0%																																																																																																																																			
66	Moderate Income Weatherization	0	1,773,003	0	1,337,788	1%	0%	0%	1	0	0	1%																																																																																																																																			
67	Neighborhood Energy	0	3,641,492	0	0		0					2%																																																																																																																																			
68		0	1,839,365	0	0		0					1%																																																																																																																																			
69	Total						0%	0%	0	0	0	0%																																																																																																																																			
70		126,774,082	236,855,560	69,037,871	141,380,484	100%	100%	100%	127	69	141	100%																																																																																																																																			
71																																																																																																																																															
72	2014 From CAC 1-04, Dec 2014 final OSB																																																																																																																																														
73	2015 From CAC 1-02, 2015 Plan																																																																																																																																														
74	Don't know if 2016 is net or gross.																																																																																																																																														
75																																																																																																																																															
76	<table><thead><tr><th>Program</th><th>2016 Goal</th><th>2016 Action Plan</th><th>2015 YTD</th><th>2014 Savings</th></tr></thead><tbody><tr><td>Home Energy Reports</td><td>43</td><td>8</td><td>22</td><td>22</td></tr><tr><td>Work Custom Rebates</td><td>33</td><td>62</td><td>10</td><td>15</td></tr><tr><td>Home Energy products...</td><td>16</td><td>20</td><td>5</td><td>15</td></tr><tr><td>C&amp;I Retro Commissioning...</td><td>50</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Work Prescriptive Rebates</td><td>17</td><td>47</td><td>11</td><td>23</td></tr><tr><td>Electric Energy...</td><td>14</td><td>0</td><td>7</td><td>8</td></tr><tr><td>Schools Energy Education</td><td>5</td><td>5</td><td>4</td><td>4</td></tr><tr><td>Home Energy Online...</td><td>4</td><td>0</td><td>3</td><td>3</td></tr><tr><td>Home Appliance Recycling</td><td>7</td><td>7</td><td>2</td><td>2</td></tr><tr><td>Work Direct Install</td><td>2</td><td>2</td><td>1</td><td>1</td></tr><tr><td>Home Weatherproofing</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Home New Construction</td><td>1</td><td>1</td><td>1</td><td>1</td></tr><tr><td>Income Qualified...</td><td>15</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Residential Peak Reduction</td><td>1</td><td>2</td><td>0</td><td>0</td></tr><tr><td>Home energy products...</td><td>1</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Small Business Efficiency...</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Home Comfort &amp;...</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Home Energy Audit</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>C&amp;I HVAC &amp; Refrigeration</td><td>10</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Renewables &amp;...</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>School Audit</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>C&amp;I Audit</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Neighborhood Energy</td><td>2</td><td>2</td><td>2</td><td>2</td></tr></tbody></table>												Program	2016 Goal	2016 Action Plan	2015 YTD	2014 Savings	Home Energy Reports	43	8	22	22	Work Custom Rebates	33	62	10	15	Home Energy products...	16	20	5	15	C&I Retro Commissioning...	50	0	0	0	Work Prescriptive Rebates	17	47	11	23	Electric Energy...	14	0	7	8	Schools Energy Education	5	5	4	4	Home Energy Online...	4	0	3	3	Home Appliance Recycling	7	7	2	2	Work Direct Install	2	2	1	1	Home Weatherproofing	1	1	1	1	Home New Construction	1	1	1	1	Income Qualified...	15	0	0	0	Residential Peak Reduction	1	2	0	0	Home energy products...	1	0	0	0	Small Business Efficiency...	0	0	0	0	Home Comfort &...	2	2	2	2	Home Energy Audit	0	0	0	0	C&I HVAC & Refrigeration	10	0	0	0	Renewables &...	0	0	0	0	School Audit	0	0	0	0	C&I Audit	2	2	2	2	Neighborhood Energy	2	2	2	2											
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## CAC Witness Mims Workpaper 2

## Tables 2 and 6

	A	B	C	D	E
1					
2		Table 2			
3		2013 Retail Sales	18,315		
4		2014 Retail Sales	18,371		
5		Scenario	GWh	Percentage of prior year sales	
6		Proposed Goal	141	0.77%	
7		Action Plan (2016 only)	236	1.28%	
8		Former state target	225	1.22%	
9		2014 Actual savings	127	0.69%	
10		2015 YTD	69	0.38%	
11		2015 goal	155	0.85%	
12					
13		Table 6	2014	2015	2016
14		Housing starts	119128	119628	120285
15		Goal units	449	449	360
16		Actual units	204	280	NA
17		Goal/Starts (%)	0.38%	0.38%	0.30%
18		Actual/Starts (%)	0.17%	0.23%	N/A
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CAC Witness Mims Workpaper 2

Tables 2 and 6

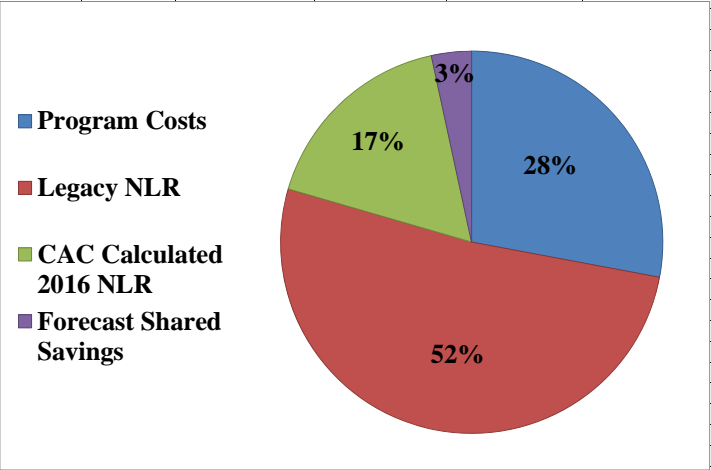
	A	B	C	D	E
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51					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1															
2		From filing and discovery request 1													
3		Attach JCW-10 2016 Rev Req													
4		Indiana Michigan Power Company - Indiana											Attachment JCW-10		
5		Cause 43827 DSM 5 2016 Plan & Program Cost Rider Reconciliation											Cause No. 43827 DSM 5		
6		2016 Revenue Requirement													
7															
8		(Over)/Under									Total Revenue Requirement	Residential Revenue Requirement	C&I Revenue Requirement		
9		DSM 2 Rider Reconciliation Cumulative (Over)/Under		(\$14,934,397)						(\$14,934,397)					
10		Residential		(\$7,665,941)							(\$7,665,941)				
11		C&I		(\$7,268,456)								(\$7,268,456)			
12		PY 3 (Over)/Under from JLB-1		\$4,521,202						\$4,521,202					
13		Residential		\$3,499,507							\$3,499,507				
14		C&I		\$1,021,695								\$1,021,695			
15		Verified Performance													
16			DSM 2 Reported	PY 1 Verified	Adjusted PY 2 Verified	Total Cumulative PY 2 Verified	(Over)/Under				In DSM 4 Per Books				
17		PY 2 NLR	\$2,743,995	\$1,442,214	\$1,384,150	\$2,826,364	\$82,369			\$82,369					
18		Residential	\$1,459,609	\$767,800	\$653,562	\$1,421,362	(\$38,247)				(\$38,247)				
19		C&I	\$1,284,386	\$674,414	\$730,588	\$1,405,002	\$120,616					\$120,616			
20		PY 2 Shared Savings	\$111,868		\$56,266		(\$55,602)			(\$55,602)					
21		Residential	\$55,589		\$0		(\$55,589)				(\$55,589)				
22		C&I	\$56,279		\$56,266		(\$13)						(\$13)		
24		Verified Performance													
25			DSM 2 Forecasted	Reported Performance	PY 1 Verified (8 months)	PY 2 Verified (8 months)	Partial PY 3 Verified	Total Cumulative PY 3 Verified	Revised (Over)/Under-Updated in Cause 43827 DSM 5	Reported Over/Under Cause 43827 DSM 4-In DSM 4 Per Books					
26		PY 3 NLR	\$6,924,229	\$4,371,039	\$961,476	\$1,768,741	\$1,089,767	\$3,819,984	(\$551,054)	(\$3,104,245)					
27		Residential	\$3,273,735	\$2,094,510	\$511,867	\$822,490	\$595,969	\$1,930,326	(\$164,184)		(\$1,343,409)				
28		C&I	\$3,650,494	\$2,276,529	\$449,609	\$946,251	\$493,798	\$1,889,659	(\$386,870)			(\$1,760,835)			
29		PY 3 Shared Savings	\$999,130	\$33,990			\$0		(\$33,990)	(\$999,130)					
30		Residential	\$244,078	\$33,990			\$0		(\$33,990)		(\$244,078)				
31		C&I	\$755,052	\$0			\$0		\$0			(\$755,052)			
33		PY 3 NLR Per Books Adjustments*								In DSM 4 Per Books					
34		Reverse PY 2 adjustment identified in DSM-2		(\$18,471)						(\$18,471)					
35		Residential		(\$40,936)							(\$40,936)				
36		C&I		\$22,465								\$22,465			
37		Reverse over-booking of PY 3 Cumulative NLR		(\$337,148)						(\$337,148)					
38		Residential		(\$177,893)							(\$177,893)				
39		C&I		(\$159,255)								(\$159,255)			
40		Reverse booking of PY 3 Cumulative NLR for PY 4		(\$284,598)						(\$284,598)					
41		Residential		(\$150,837)							(\$150,837)				
42		C&I		(\$133,761)								(\$133,761)			
43		Adjust PY 3 Per Books to Final Scorecard Results--WP JCW-1		(\$74,716)						(\$74,716)					
44		Residential		(\$48,327)							(\$48,327)				
45		C&I		(\$26,388)								(\$26,388)			
46		Cause 43827 DSM 3 (Over)/Under Balance								(\$10,413,195)	(\$4,166,434)	(\$6,246,761)			
47		January 2013 - June 2014 Per Books Balance								\$17,984,383	\$5,605,286	\$12,379,097			
49		2013 PY 4 Per Books True Up	2013 PY 4 Forecast from Cause 43827 DSM 2	2013 PY 4 Per Books	2013 PY 4 Actuals		(Over)/Under			In DSM 5 Per Books					
50		Program Cost 2013 PY 4	\$34,662,856		\$31,597,626		\$0			\$0					
51		Residential	\$13,392,600		\$10,166,041		\$0				\$0				
52		C&I	\$21,270,256		\$21,431,586		\$0					\$0			
53		NLR 2013 PY 4	\$14,963,394	\$12,291,288	\$9,839,423		(\$2,451,865)			(\$2,451,865)					
54		Residential	\$5,903,389	\$5,186,993	\$5,087,140		(\$99,853)				(\$99,853)				
55		C&I	\$9,060,005	\$7,104,295	\$4,752,283		(\$2,352,012)					(\$2,352,012)			
56		Shared Savings 2013 PY 4	\$2,130,503	\$891,213	\$963,161		\$71,948			\$71,948					
57		Residential	\$503,954	\$128,785	\$223,052		\$94,267				\$94,267				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
58		C&I	\$1,626,549	\$762,428	\$740,109		(\$22,319)					(\$22,319)		
59		<b>Total Revenues 2013 PY 4</b>	<b>\$51,756,753</b>		<b>\$42,400,210</b>		<b>(\$2,379,917)</b>			<b>(\$2,379,917)</b>				
60		Residential	\$19,799,943		\$15,476,232		(\$5,587)				(\$5,587)			
61		C&I	\$31,956,810		\$26,923,978		(\$2,374,331)					(\$2,374,331)		
63		<b>Historical &amp; 2013 PY 4 Per Books True Up Subtotal</b>								\$5,191,271				
64		Residential									\$1,433,265			
65		C&I										\$3,758,005		
67		<b>Cause 43827 DSM 4 Cumulative (Over)/Under Balance</b>								\$5,191,271	\$1,433,265	\$3,758,005		
68		<b>July - Dec 2014 (Over)/Under Per Books Balance</b>								\$11,337,880				
69		Residential									\$3,077,147			
70		C&I										\$8,260,733		
71		<b>Cause 43827 DSM 5 Cumulative (Over)/Under Balance</b>								\$18,909,068				
72		Residential									\$4,515,999			
73		C&I										\$14,393,069		
74		<b>Revenue Requirement Adjustment to Cause 43827 DSM 4 Reported Per Books Cumulative*</b>								\$4,791,541				
75		Residential									\$2,099,317			
76		C&I										\$2,692,224		
77														
78			<b>Per Books Reported Cumulative Jan - June 2014 Cause 43827 DSM 4</b>	<b>Verified Cumulative Jan - June 2014</b>										
79		<b>Jan - June 2014 PY 5 NLR Per Books Adjustment to Verified Savings</b>	<b>\$10,978,881</b>	<b>\$10,334,562</b>						(\$644,319)				
80		Residential	\$4,688,075	\$4,541,820							(\$146,255)			
81		C&I	\$6,290,806	\$5,792,741								(\$498,065)		
82														
83			<b>Per Books Reported Cumulative July - Dec 2014</b>	<b>Verified Cumulative July - Dec 2014</b>										
84		<b>July - Dec 2014 PY 5 NLR Per Books Adjustment to Verified Savings</b>	<b>\$9,575,430</b>	<b>\$8,912,798</b>						(\$662,632)				
85		Residential	\$3,899,699	\$3,479,416							(\$420,283)			
86		C&I	\$5,675,731	\$5,433,382								(\$242,349)		
87														
88		<b>2014 PY 5</b>	<b>2014 PY 5 Forecast Cause 43827 DSM 3</b>	<b>2014 PY 5 Revised Forecast Cause 43827 DSM 4</b>	<b>January - June 2014 Per Books Reported Cause 43827 DSM 4</b>	<b>July - Dec 2014 Per Books Reported</b>	<b>Full Year 2014 PY 5 Actuals</b>							
89		<b>2014 PY 5 Program Cost Without EECO</b>	<b>\$23,071,139</b>	<b>\$16,331,349</b>			<b>\$14,851,657</b>			\$0				
90		Residential	\$11,951,009	\$8,584,848			\$7,437,940				\$0			
91		C&I	\$11,120,130	\$7,746,501			\$7,413,717					\$0		
92		<b>2014 EECO Program Cost</b>	<b>\$445,487</b>	<b>\$456,000</b>			<b>\$377,213</b>			\$0				
93		Residential	\$396,483	\$405,840			\$335,719				\$0			
94		C&I	\$49,004	\$50,160			\$41,493					\$0		
95		<b>2014 PY 5 NLR</b>	<b>\$16,487,300</b>	<b>\$21,141,925</b>			<b>\$19,247,359</b>			\$0				
96		Residential	\$7,056,781	\$8,742,147			\$8,021,236				\$0			
97		C&I	\$9,430,519	\$12,399,778			\$11,226,123					\$0		
98		<b>2014 PY 5 Shared Savings Per Books Adjustment</b>	<b>\$891,015</b>	<b>\$1,292,242</b>	<b>\$131,220</b>	<b>\$932,773</b>	<b>\$1,152,816</b>			\$88,823				
99		Residential	\$358,116	\$567,684	\$53,062	\$294,469	\$447,339				\$99,808			
100		C&I	\$532,899	\$724,557	\$78,158	\$638,304	\$705,477					(\$10,985)		
101		<b>Total Revenues 2014 PY 5</b>	<b>\$40,894,941</b>	<b>\$39,221,515</b>			<b>\$35,629,045</b>			\$88,823				
102		Residential	\$19,762,389	\$18,300,519			\$16,242,234				\$99,808			
103		C&I	\$21,132,552	\$20,920,997			\$19,386,810					(\$10,985)		
104														
105		<b>Reconciliation Sub-total</b>								\$22,482,480				



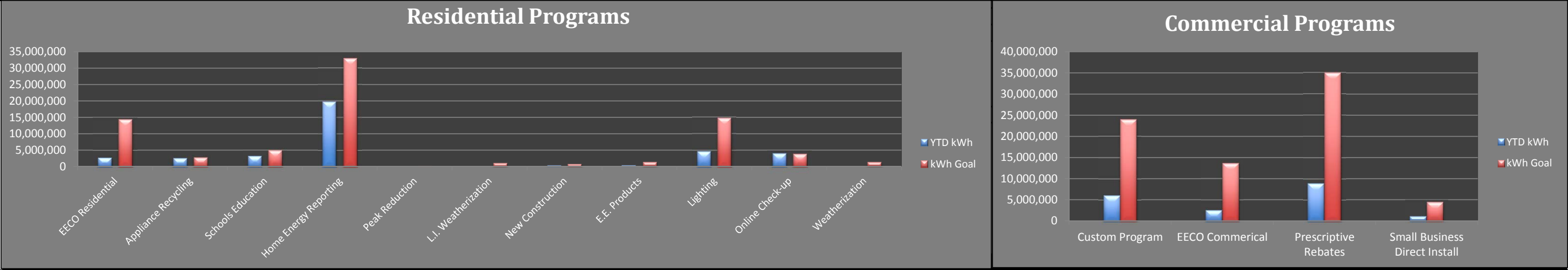
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
106		Residential									\$6,148,586			
107		C&I										\$16,333,894		
108														
109		2016 PY 7 Forecast	2016 PY 7 Forecast											
110		Forecast Program Cost Without EECO	\$13,658,695	\$14,697,485						\$13,658,695				
111		Residential	\$7,570,985	\$8,509,619							\$7,570,985			
112		C&I	\$6,087,710	\$6,187,866								\$6,087,710		
113		EECO Program Cost	\$1,038,790							\$1,038,790				
114		Residential	\$938,634								\$938,634			
115		C&I	\$100,156									\$100,156		
116		Forecast NLR	\$32,046,262							\$32,046,262				
117		Residential	\$14,300,010								\$14,300,010			
118		C&I	\$17,746,252									\$17,746,252		
119		Forecast Shared Savings	\$1,780,862							\$1,780,862				
120		Residential	\$870,716								\$870,716			
121		C&I	\$910,146									\$910,146		
122		Total Revenues 2016 PY 7	\$48,524,609							\$48,524,609				
123		Residential	\$23,680,345								\$23,680,345			
124		C&I	\$24,844,264									\$24,844,264		
125														
126		Total Revenue Requirement-Net of Gross Revenue Conversion								\$71,007,089				
127		Residential									\$29,828,931			
128		C&I										\$41,178,158		
129														
130		Gross Revenue Conversion Factor (GRCF)	1.853%											
131														
132		Gross Revenue Conversion--Required Revenue								\$1,340,603				
133		Residential									\$563,166			
134		C&I										\$777,437		
135														
136		Total Revenue Requirement								\$72,347,692				
137		Residential									\$30,392,096			
138		C&I										\$41,955,596		
139														
140		*Cause 43827 DSM 4 overstated the beginning over-recovered cumulative balance of Cause 43827 DSM 3 beginning cumulative balance resulting in an understatement of revenue requirements in that Cause												
141														
142														
143		Chart												
144		2016 PY 7 Forecast	2016 PY 7 Forecast											
145		Forecast Program Cost Without EECO	\$13,658,695											
146		Residential	\$7,570,985											
147		C&I	\$6,087,710											
148		EECO Program Cost	\$1,038,790											
149		Residential	\$938,634											
150		C&I	\$100,156											
151		Program Costs	\$14,697,485											
155		Legacy NLR	\$27,119,082											
156		CAC Calculated 2016 NLR	\$9,000,000											
157		Forecast Shared Savings	\$1,780,862											
160														
161		Total Revenues 2016 PY 7	\$52,597,429											
162														
163														
164														
165														
166														
167														
168														
169														
170														
171														



	A	B	C	D	E	F	G	H	I	J	K	L	M
1					Indiana Michigan Power Company - Indiana							Attachment JCW-5	
2					Demand Side Management - 2016 DSM Plan							Cause No. 43827 DSM 5	
3					2016 (PY 7) Net Lost Revenue Forecast								
4		Attach JCW-5 2016 NLR		2016 PY 7 Current Year Measures Portion			2015 PY 6 Cumulative (Prior Year) Energy Savings Portion						
5				DSM Program 2016 PY 7 Expected Energy Savings Current Year Measures (kWh)	PY 7 2016 Program Net to Gross Ratios (PY 5 Evaluated NTG Ratios)	Total Adjusted** 2016 PY 7 DSM Program Net Energy Savings Current Year Measures (kWh)	2010-2014 Cumulative Verified Net Energy Savings (kWh)*	2015 PY 6 Forecast Net Energy Savings Full Year Measures in 2016 (kWh)	2016 PY 7 Net Lost Energy Savings (kWh)	2016 PY 7 Net Lost Revenue Forecast (\$)	2016 Full Year Convention NLR, CAC calculation	Legacy NLR, CAC calculation	
6				DSM Program	1	2	3 = (1 x .5) x 2	4	5	6 = 3 + 4 + 5	7 = 6 x Net Lost Realization (cents/kWh)		
7				Residential Lighting (2010 - 2014)	0	49%	0	38,247,524	0	38,247,524	\$2,591,652	\$0	\$2,591,652
8				Home Energy Products	17,054,836	52%	4,434,257	273,148	8,353,666	13,061,071	\$885,018	\$1,155,636	\$584,553
9				Home Energy Audit (2010 - 2014)	0	89%	0	8,458,847	0	8,458,847	\$573,171	\$0	\$573,171
10				Income Qualified Weatherproofing	588,874	100%	294,437	4,113,999	1,018,912	5,427,348	\$367,757	\$39,902	\$347,806
11				Schools Energy Education	4,784,890	162%	3,875,761	12,206,579	2,804,016	18,886,356	\$1,279,739	\$324,224	\$1,017,118
12				Home Appliance Recycling	2,902,619	72%	1,044,943	11,960,325	2,016,000	15,021,268	\$1,017,841	\$196,681	\$947,036
13				Home New Construction	651,753	80%	260,701	295,532	584,818	1,141,051	\$77,318	\$44,163	\$59,652
14				Home Weatherproofing	1,281,323	72%	461,276	1,636,796	2,466,309	4,564,382	\$309,283	\$86,822	\$278,026
15				Home Energy Online Checkup	4,407,578	85%	1,873,221	7,100,097	3,285,522	12,258,840	\$830,659	\$298,657	\$703,730
16				Home Energy Reports	42,867,000	100%	21,433,500	0	33,000,000	54,433,500	\$3,688,414	\$2,904,668	\$2,236,080
17				Residential Peak Reduction	66,505	100%	33,253	0	0	33,253	\$2,253	\$4,506	\$0
18				Work Prescriptive Rebates	16,760,429	81%	6,787,974	128,471,876	28,350,000	163,609,850	\$9,371,572	\$960,037	\$8,982,757
19				C&I Retro Commissioning Lite (2010 - 2014)	0		0	34,981,606	0	34,981,606	\$2,003,746	\$0	\$2,003,746
20				Work Custom Rebates	32,758,023	99%	16,215,221	52,960,504	23,760,000	92,935,725	\$5,323,358	\$1,876,380	\$4,394,550
21				Work Direct Install	2,346,372	100%	1,173,186	6,766,148	4,430,770	12,370,104	\$708,560	\$134,400	\$641,359
22				C&I HVAC	0	86%	0	11,167	0	11,167	\$640	\$0	\$640
23				Renewables & Demonstrations-Residential	0		0	0	0	0	\$0	\$0	\$0
24				Renewables & Demonstrations-C&I	0		0	0	0	0	\$0	\$0	\$0
25				Electric Energy Consumption Optimization (EECO) Residential***	13,314,862	100%	13,314,862	1,312,960	24,877,842	39,505,664	\$2,676,904	\$902,215	\$1,500,209
26				Electric Energy Consumption Optimization (EECO) C&I****	1,420,756	100%	1,420,756	1,411,853	3,074,789	5,907,399	\$338,376	\$81,381	\$256,995
27				DSM Program Portfolio Total	141,205,821		72,623,348	310,208,961	138,022,645	520,854,954	\$32,046,262	\$9,009,674	\$27,119,082
28				Residential			47,026,211	85,605,807	78,407,085	211,039,103	\$14,300,010	\$5,957,476	\$10,839,034
29				C&I****			25,597,137	224,591,987	59,615,559	309,804,684	\$17,746,252	\$3,052,198	\$16,280,048
30													
31				*As accounted for through measure life tracking for measures installed as of Dec 31, 2014 but with life remaining in 2016; 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.									
32				**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.									
33				***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.									
34				****Total C&I Customer 2016 Net Lost Revenue cost responsibility is \$17,746,252; 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 2016 Net Lost Revenue in 2016 for July 1 2014 Opt Out customers is \$10,675,602 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 2016 stemming from measures installed up to December 31, 2014. The portion of total C&I class 2016 Net Lost Revenue to be allocated to Nov 15, 2014 Opt Out customers is \$12,865,269 based on Measure Life tracking of measures installed since I&M last basic rate case test year of March 2010 through April 2011.									
35													
36													
37													
38													
39													
40													
41													
42				Net Lost Realization Rates									
43				Residential	0.06776	cents/kWh							
44				C&I	0.05728	cents/kWh							
45													
46													

Program Year 6: January 1, 2015 - December 31, 2015

Measures Implemented					Program Budget Expenditures				Gross Energy Impacts (kWh)				Gross Demand Impacts (kW)				Net kWh		Net kW
Program	Current Month	YTD	Planning Goal	% to Goal	Current Month Actuals	YTD	Budget	% to Goal	Current Month kWh Savings	YTD	Energy Savings Goal	% to Goal	Current Month kW Savings	YTD	Demand Savings Goal	% to Goal	NTG Ratio	YTD	YTD
C&I Programs																			
Prescriptive Rebates	9,598	32,601	0		\$242,832	\$1,357,928	\$2,763,894	49%	2,753,899	11,672,369	35,000,000	33%	726	2,676	5,600	48%	0.81	9,454,619	2,168
Custom Program	1,454	7,666	0		\$282,387	\$1,429,265	\$2,704,917	53%	3,212,930	9,306,059	24,000,000	39%	426	1,336	5,021	27%	0.99	9,212,998	1,323
Small Business Direct Install	432	3,616	0		\$31,619	\$352,188	\$823,042	43%	140,586	1,271,102	4,430,770	29%	31	323	349	93%	1	1,271,102	323
EECO Commerical	18	18	27	67%	\$7,940	\$44,895	\$107,393	42%	485,995	3,136,190	13,581,338	23%	99	637	2,810	23%	1	3,136,190	637
Subtotal	11,502	43,901			\$564,778	\$3,184,276	\$6,399,246	50%	6,593,410	25,385,720	77,012,108	33%	1,283	4,972	13,780	36%		23,074,909	4,450
Residential Programs																			
EECO Residential					\$87,039	\$489,960	\$1,177,207	42%	513,995	3,316,876	14,371,293	23%	103	662	3,044	22%	1	3,316,876	662
Appliance Recycling	427	3,061	3,350	91%	\$58,459	\$527,041	\$648,693	81%	411,656	2,966,424	3,068,260	97%	49	351	361	97%	0.72	2,135,825	253
Online Check-up	646	7,729	11,423	68%	\$53,211	\$436,287	\$676,785	64%	302,349	4,330,779	3,865,320	112%	33	476	483	99%	0.85	3,681,162	405
Schools Education	3,506	11,261	11,755	96%	\$168,382	\$609,954	\$647,775	94%	1,480,198	4,754,282	4,962,843	96%	210	676	705	96%	0.997	4,740,019	674
Home Energy Reporting	168,156	168,156	145,000	116%	\$81,757	\$921,735	\$1,181,647	78%	1,872,158	21,707,865	33,000,000	66%	369	2,923	3,762	78%	1	21,707,865	2,923
Peak Reduction	0	8,079	9,000	90%	\$13,119	\$576,122	\$824,835	70%	0	31,496	112,014	28%	0	5,632	5,670	99%	1	31,496	5,632
L.I. Weatherization	0	105	5,117	2%	\$19,554	\$193,272	\$1,205,905	16%	0	5,068	1,029,804	0%	0	0	109	0%	1	5,068	0
Weatherization	0	815	8,878	9%	\$43,946	\$222,885	\$1,432,478	16%	0	39,189	1,276,803	3%	0	4	395	1%	0.72	28,216	3
New Construction	54	280	449	62%	\$54,624	\$303,254	\$492,422	62%	85,950	459,839	731,022	63%	67	340	545	62%	0.8	367,871	272
E.E. Products	133	962	1,183	81%	\$43,321	\$241,295	\$371,264	65%	71,827	430,256	1,294,877	33%	7	48	397	12%	0.52	223,733	25
Lighting	31,768	195,680	513,715	38%	\$108,100	\$524,398	\$1,072,014	49%	902,007	5,610,078	14,770,000	38%	108	670	2,300	29%	0.5	2,805,039	335
Subtotal	204,690	396,128	709,870	56%	\$731,512	\$5,046,203	\$9,731,025	52%	5,640,140	43,652,151	78,482,236	56%	946	11,782	17,771	66%		39,043,170	11,183
INDIRECT COSTS																			
Staff Dev. & Prof. Organizations					\$12,053	\$49,355	\$65,000	76%	OCTOBER 2015 SCORECARD SUMMARY										
Computer System Development					\$13,801	\$178,048	\$200,000	89%											
Marketing & Cust. Awareness					\$17,359	\$132,586	\$300,000	44%											
New Program Development					\$0	\$0	\$50,000	0%											
Potential Studies					\$0	\$0	\$65,000	0%											
Planning & Analytic Support					\$8,034	\$68,840	\$100,000	69%											
Budgeting & Acct. Support					\$8,767	\$120,634	\$125,000	97%											
Subtotal					\$60,014	\$549,463	\$905,000	61%											
PORTFOLIO TOTALS																			
Total Residential	204,690	396,128	709,870	56%	\$731,512	\$5,046,203	\$9,731,025	52%	5,640,140	43,652,151	78,482,236	56%	946	11,782	17,771	66%		39,043,170	4,450
Total C&I	11,502	43,901			\$321,946	\$1,826,348	\$6,399,246	29%	6,593,410	25,385,720	77,012,108	33%	1,283	4,972	13,780	36%		23,074,909	11,183
Total Portfolio	204,690	396,128	709,870	56%	\$1,356,304	\$8,779,942	\$17,035,271	52%	12,233,550	69,037,871	155,494,344	44%	2,229	16,754	31,551	53%		62,118,080	15,633



PROGRAM NOTES:

EECO

EECO

Home Energy Reports

Peak Reduction

Indirect Costs

Total Portfolio

Participants = Number of Circuits with VVO equipment; Budget Expenditures are split 91.64% Residential, 8.36% Commercial

Revised Savings target based on number of Stations with Volt Var installed & operating.

Program Savings are based on total # of active participants which is fluid based on opt outs & move outs / Updated Opower savings with final ytd totals received in August.

YTD participants includes all that have enrolled since 2012; minus opt outs, move outs, & removals.

\$25,000 transferred from Planning & Analytical Support, \$10,000 transferred from Market Potential Studies; to Staff Development & Memberships. (\$35,000 total)

% to Goal for Measures doesn't include Commercial Measures

## CAC Witness Mims Workpaper 6

2015 YTD

	A	B	C	D
1				
2				
3				Gross kWh
4		Residential Home Energy Assessment		2,181,517
5		Residential Low Income Weatherization		1,529,696
6		Residential Lighting		15,747,122
7		Energy Efficient Schools - Kits		1,736,190
8		Energy Efficient Schools - Audits		516,338
9		C&I Rebate Programs		23,782,606
10		Appliance Recycling Program		4,029,025
11		Online Energy Check-up Program		2,818,382
12		Home Energy Reporting Program		23,776,713
13		Peak Reduction		62,367
14		Renewables/Demo. Residential		19,079
15		Renewables/Demo. Commercial		21,877
16		Home Weatherization		1,401,869
17		Res. New Construction		369,415
18		Energy Efficient Products		524,551
19		C&I Incentives Program		15,441,575
20		C&I Audit Program		1,337,788
21		C&I Small Business Direct Install		3,045,736
22		C&I Retro-Commissioning Lite Program		20,685,678
23		C&I HVAC Optimization Program		12,985
24		EEO (Volt Var) Residential		3,712,115
25		EEO (Volt Var) Commercial		4,021,458
26				
27		Total		126,774,082

[illegible]

	B	C	D	E	F	G	H	I	J	K	L
1			Indiana Michigan Power Company - Indiana				Attachment JCW-2				
2			Demand Side Management - 2016 1 Year Plan				Cause No. 43827 DSM 5				
3			2016 DSM Plan Summary								
4				DSM 2016 1 year Plan			2013 Action Plan, year 2016 only				
5		I&M Indiana DSM Direct Program	Program Description	2016 Program Budget (\$)	2016 Energy Savings (kWh)	2016 Demand Savings (kW)	2016 Program Budget (\$)	2016 Energy Savings (kWh)	2016 Demand Savings (kW)	Annual Cost of Conserved Energy (cents/kwh)	Lifetime Cost of Conserved Energy (cents/kwh)
6		DSM Program Portfolio Total		0	0	0					
7		Home Energy Reports	Home consumption comparison reports	973,599	42,867,000	4,887	555,118	7,517,350	1,930	0.07	
8		Work Custom Rebates	Rebates for custom C&I efficiency improvements	3,442,741	32,758,023	7,017	1,906,757	62,109,264	10,318	0.03	
9		Home Energy Products	Rebates for efficient residential lighting & other electro-technologies	1,696,311	17,054,836	2,167	5,053,415	15,287,886	3,542	0.33	
10		Work Prescriptive Rebates	Rebates for efficient lighting, efficient motors, etc.	1,778,328	16,760,429	2,850	8,759,206	46,603,172	7,394	0.19	
11		Electric Energy Consumption Op	Utility distribution voltage control program to optimize & reduce end use consumption	1,038,790	14,735,618	5,263				#DIV/0!	
12		Schools Energy Education	Energy education for elementary age children with take home kits	632,031	4,784,890	660	383,437	1,730,874	446	0.22	
13		Home Energy Online Checkup	Online basic home audit with mailed participant kits	571,486	4,407,578	455	203,981	562,713	145	0.36	
14		Home Appliance Recycling	Rebates for pick up, and recycling of refrigerators and freezers	562,346	2,902,619	344	1,432,619	7,204,260	1,511	0.20	
15		Work Direct Install	Walk through audits and direct install cost effective measures for small business customers	444,071	2,346,372	334				#DIV/0!	
16		Home Weatherproofing	Walk through audit with rebates for home weatherization & efficiency	574,442	1,281,323	44	1,814,493	2,956,530	1,047	0.61	
17		Home New Construction	Rebates for efficient new home construction	412,652	651,753	398	323,419	477,086	156	0.68	
18		Income Qualified Weatherproofin	Low Income home weatherization & efficiency	567,971	588,874	22	3,250,371	2,287,060	810	1.42	
19		Small Business Efficiency Pilot	Small business consumption reports, owner energy education, & online efficiency tool	196,320	135,556	186				#DIV/0!	
20		Residential Peak Reduction	Peak period cycling of residential air conditioners	689,632	66,505	5,645	9,495,616	0	14,960		
21		Home Comfort & Efficiency Pilot	Assess, demonstrate, evaluate, educate, & train on new HVAC technology	211,765	39,107	22					
22											
23		Portfolio Level Expenses (Indirect Programs)									
24		Information Technology & Systems		\$200,000							
25		Staff Development & Memberships		\$30,000							
26		Potential Studies		\$75,000							
27		Marketing & Customer Awareness		\$300,000							
28		Planning & Analytic Support		\$125,000							
29		New Program Development		\$50,000							
30		Budgeting & Accounting Support		\$125,000							
31		Total Portfolio Level Expenses		\$905,000							
33		Total I&M Indiana DSM Portfolio		\$1,116,765							
34		Count of Direct Programs		15							
35											
36			2016 DSM Energy Savings as % I&M IN Utility GWh Sales	0.00%							
37			2016 IN DSM Program Cost as % of I&M IN Utility Revenues	0.09%							
38			2016 IN DSM Program Cost	\$1,116,765							
39			2016 IN DSM Energy Savings Plan Target (kWh)	39,107							
40			2016 IN DSM Program Operating Cost (cents/kwh saved)	\$28.56							
41											
42											
43											
44		Notes:									
45		Action Plan program Res EE products = Home Energy Products									
46		Action Plan program Res Online Audits = Home Energy Online Checkup									
47		Action Plan program Res Weatherization = Home Weatherproofing									
48		Action Plan program Res Income Qualified Weatherization = Income Qualified Weatherproofing									
49		Action Plan program EE Schools Education = Schools Energy Education									
50		Action Plan program C&I Rebates = Work Prescriptive rebates									
51											
52		Table Data	2016 DSM Plan	2016 Action Plan	2016 DSM Plan	2016 Action Plan					
53			Budget (\$)	Budget (\$)	kWh	kWh					
54		Home Energy Reports	973,599	555,118	42,867,000	7,517,350					
55		Work Custom Rebates	3,442,741	1,906,757	32,758,023	62,109,264					
56		Home Energy Products	1,696,311	5,053,415	838,400	15,287,886					
57		Work Prescriptive Rebates	1,778,328	8,759,206	16,760,429	46,603,172					

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