

**STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

MMEA is Michigan's trade association of municipally owned electric utilities. As units of local government, municipal electric systems are non-profit, community owned and operated, and regulated directly by the city and customers they serve. In 2015, MMEA members (Applicants) accounted for approximately 8% of all Michigan retail sales while serving over 300,000 customers. Municipal utilities are typically small with confined service territories, and customer concentration and budgets for Energy Waste Reduction programs can be very limited.

As referenced in 2016 PA 342 Sec. 73(1), MMEA is requesting to exercise the option to file joint Energy Waste Reduction (previously known as Energy Optimization or EO) biennial plans for the years 2018-2019 as allowed under docket number U-17008 approved by the MPSC on April 17, 2012.

Several of the municipals have elected to revise their Energy Waste Reduction Plans and others request to continue operating under the current Commission-approved (EO) plans, with no changes, through 2018 and 2019. The Energy Waste Reduction portfolio summary which details program budget and goals for 2018 and 2019 for each municipal utility can be found in Attachment A.

Administrative Changes under U-17008

On April 17, 2012, in Order U-17008 the MPSC allowed the MMEA members certain flexibility in the way the Municipal Utilities (MUs) would be permitted to design and administer their (then EO) Energy Waste Reduction plans. The benefits of this Order are outlined below.

A. Beginning with the 2011 annual reports due on May 31, 2012 and for all future annual reports thereafter, MUs shall be authorized to file individually or jointly in a combined energy waste reduction annual report format as provided in this order.

- Since 2011, the MUs have filed a joint annual report and this has resulted in time and cost-savings while providing consistent reporting data to the Michigan Public Service Commission (MPSC).

B. Beginning with the 2013 biennial energy waste reduction plans, MUs were authorized to have the option of filing either an individual or a joint energy waste reduction plan as provided in U-17008.

- MMEA is filing this joint biennial plan in 2017 for the years 2018 and 2019.

C. MUs were authorized to reallocate expenditures budgeted for a specific program offering within a customer class to successful programs in another customer class when the municipal utility's experience shows that the market in that customer class is not responding to energy waste reduction program offerings and the change is reasonable and cost effective as provided in U-17008.

- Allowing the member utilities to reallocate expenditures within a customer class has allowed active programs to receive additional funding when it becomes evident that the budget for a less successful program will not be spent. This allows customers to continue participating in popular and effective Energy Waste Reduction programs and ensures that these programs will not be shut down partway through a program year.

D. MUs were authorized to limit the third-party evaluations performed for certification purposes to the certification of a municipal utility's gross kilowatt-hour savings as provided in this order.

- This benefits MUs due to the limited funding available to invest in independent third party evaluations of incremental savings.

E. MUs were authorized to include savings resulting from load management programs that reduce overall energy usage and that allow for the transfer of renewable energy credits as provided in U-17008.

- At this time, no MU is participating in this option.

F. MUs were authorized to calculate net energy savings towards the kilowatt-hour goals by including energy savings resulting from a municipal utility customer's participation in an energy waste reduction heating, ventilation, and air conditioning program or a fuel-switching pilot program that results in the municipal utility customer thereafter undertaking fuel-switching that involves geothermal or air-to-air heat pumps as provided in this order. In addition, a municipal utility shall be authorized to include annual energy savings associated with customers installing solar thermal systems.

- MMEA members continue to evaluate these opportunities.

G. MUs were authorized the additional flexibility to allocate savings and budget over a multi-year period up to and including the projected life of the project by allowing their large commercial and industrial customers to implement multi-year projects with significant energy savings and costs as provided in this order if they continue to offer energy waste reduction programs to all customer classes.

- Several MUs have benefited from the ability to carry forward both savings and budgets into multiple years.

H. Upon petition by a municipal utility, the Commission may, for good cause, grant up to two extensions for compliance with the electric savings standard as provided for in U-17008. Upon subsequent petition by a municipal electric provider, at least three months before the expiration of the second extension, the Commission may, for good cause, establish a permanent revised energy efficiency standard of less than 1%.

- At this time, no MU is participating in this option. This may become more important as smaller municipal utilities reach market saturation of certain energy efficiency measures.

G. MUs and their governing bodies have sole discretion with respect to the use of volumetric or per-meter energy waste reduction surcharges as provided by law.

- At this time, there is only one municipal utility that has a per-meter charge for residential customers.

Attachment A: Bay City Electric Light & Power Energy Waste Reduction Program Portfolio U-18282

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	190,095	\$57,014	191,243	\$58,462	191,243	\$59,565
Residential Services	8.95	\$0.012	1,076,986	\$180,761	1,168,924	\$196,671	1,262,901	\$213,070
Educational Services	0.38	\$0.188	49,693	\$9,321	49,693	\$9,321	49,693	\$9,321
Pilot Programs	3.22	\$0.019	82,822	\$15,535	82,822	\$15,535	82,822	\$15,535
Administration				\$15,535		\$15,535		\$15,535
Evaluation				\$9,321		\$9,321		\$9,321
Subtotal - Residential Solutions	7.33	\$0.015	1,399,595	\$287,486	1,492,681	\$304,844	1,586,658	\$322,346
Business Services	5.02	\$0.010	1,678,127	\$248,560	1,688,262	\$254,870	1,688,262	\$259,679
Educational Services	0.21	\$0.151	78,481	\$11,848	78,481	\$11,848	78,481	\$11,848
Pilot/Emerging Technology Programs	1.89	\$0.015	130,801	\$19,747	130,801	\$19,747	130,801	\$19,747
Administration				\$19,747		\$19,747		\$19,747
Evaluation				\$11,848		\$11,848		\$11,848
Subtotal - Business Solutions	4.25	\$0.012	1,887,409	\$311,751	1,897,544	\$318,061	1,897,544	\$322,870
Total Program Portfolio	5.60	\$0.013	3,287,004	\$599,237	3,390,225	\$622,905	3,484,202	\$645,216

Attachment A: City of Charlevoix Energy Waste Reduction Program Portfolio U-18283

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	28,259	\$8,475	28,099	\$8,590	28,428	\$8,854
Residential Services	8.87	\$0.012	152,557	\$25,255	151,697	\$25,596	153,473	\$26,384
Educational Services	0.38	\$0.191	6,643	\$1,263	6,643	\$1,269	6,643	\$1,282
Pilot Programs	3.22	\$0.019	11,072	\$2,105	11,072	\$2,116	11,072	\$2,137
Administration				\$2,105		\$2,116		\$2,137
Evaluation				\$1,263		\$1,269		\$1,282
Subtotal - Residential Solutions	7.22	\$0.015	198,531	\$40,468	197,511	\$40,956	199,616	\$42,076
Business Services	4.77	\$0.010	365,417	\$55,863	363,356	\$56,616	367,610	\$58,359
Educational Services	0.40	\$0.156	16,510	\$2,573	16,593	\$2,585	16,759	\$2,611
Pilot/Emerging Technology Programs	3.42	\$0.016	27,517	\$4,288	27,655	\$4,309	27,931	\$4,352
Administration				\$4,288		\$4,309		\$4,352
Evaluation				\$2,573		\$2,585		\$2,611
Subtotal - Business Solutions	4.06	\$0.012	409,444	\$69,583	407,604	\$70,405	412,300	\$72,266
Total Program Portfolio	5.06	\$0.013	607,975	\$110,051	605,115	\$111,361	611,916	\$114,363

Attachment A: Chelsea Electric Department Energy Waste Reduction Program Portfolio U-18284

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	6,385	\$1,915	6,293	\$1,924	6,249	\$1,946
Residential Services	11.42	\$0.010	193,464	\$27,996	190,681	\$28,124	189,361	\$28,456
Educational Services	0.38	\$0.154	7,083	\$1,080	7,083	\$1,091	7,083	\$1,102
Pilot Programs	3.22	\$0.015	11,805	\$1,801	11,805	\$1,819	11,805	\$1,837
Administration				\$1,801		\$1,819		\$1,837
Evaluation				\$1,080		\$1,091		\$1,102
Subtotal - Residential Solutions	9.67	\$0.012	218,737	\$35,672	215,862	\$35,867	214,499	\$36,280
Business Services	5.19	\$0.010	681,933	\$90,721	685,434	\$91,187	694,169	\$92,349
Educational Services	0.40	\$0.133	27,407	\$3,646	28,229	\$3,755	29,076	\$3,868
Pilot/Emerging Technology Programs	3.42	\$0.013	45,678	\$6,077	47,048	\$6,259	48,459	\$6,447
Administration				\$6,077		\$6,259		\$6,447
Evaluation				\$3,646		\$3,755		\$3,868
Subtotal - Business Solutions	4.49	\$0.011	755,017	\$110,166	760,710	\$111,215	771,704	\$112,978
Total Program Portfolio	5.70	\$0.012	973,754	\$145,839	976,573	\$147,082	986,203	\$149,259

Attachment A: Village of Clinton Energy Waste Reduction Program Portfolio

U-18285

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	N/A	N/A	2,164	\$1,000	2,164	\$1,000	2,164	\$1,000
Efficient Lighting	6.6	\$0.01	97,380	\$12,100	97,380	\$12,100	97,380	\$12,100
Educational Services	2.00	\$0.04	3,246	\$300	3,246	\$300	3,246	\$300
Subtotal - Residential Solutions	2.51	\$0.02	102,790	\$13,400	102,790	\$13,400	102,790	\$13,400
Business Efficient Lighting	4.90	\$0.04	110,365	\$3,300	110,365	\$3,300	110,365	\$3,300
Educational Services	2.00	\$0.04	3,246	\$300	3,246	\$300	3,246	\$300
Subtotal - Business Solutions	3.60	\$0.01	113,611	\$3,600	113,611	\$3,600	113,611	\$3,600
Total Program Portfolio			216,401	\$17,000	216,401	\$17,000	216,401	\$17,000
Program Administration Evaluation (EM&V)				\$2,000		\$2,000		\$2,000
Subtotal - Admin/Evaluation				\$1,000		\$1,000		\$1,000
Projected Annual Totals	4.2	\$0.023	216,401	\$20,000	216,401	\$20,000	216,401	\$20,000

Village of Clinton will continue operating under the current Commission approved Plan with no changes at this time.

Attachment A: Coldwater Board of Public Utilities Energy Waste Reduction Program Portfolio U-18286

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	N/A	N/A	40,200	\$46,000	40,200	\$46,000	40,200	\$46,000
Efficient Lighting	6.70	\$0.01	494,100	\$107,500	494,100	\$107,500	494,100	\$107,500
Refrigerator/Freezer Recycling	2.90	\$0.03	43,300	\$8,500	43,300	\$8,500	43,300	\$8,500
Efficient Appliances/Electronics	2.50	\$0.06	40,000	\$11,600	40,000	\$11,600	40,000	\$11,600
Efficient HVAC Equipment	3.20	\$0.05	20,400	\$9,600	20,400	\$9,600	20,400	\$9,600
Educational Services	2.10	\$0.04	30,000	\$6,300	30,000	\$6,300	30,000	\$6,300
Pilot/Emerging Technology	2.10	\$0.04	45,000	\$7,800	45,000	\$7,800	45,000	\$7,800
Subtotal - Residential Solutions	N/A	N/A	713,000	\$191,000	713,000	\$191,000	713,000	\$191,000
Prescriptive Incentive Program	4.80	\$0.02	1,472,000	\$210,700	1,472,000	\$210,700	1,472,000	\$210,700
Custom Incentive Program	7.80	\$0.01	574,000	\$85,000	574,000	\$85,000	574,000	\$85,000
Educational Services	2.10	\$0.04	54,000	\$11,400	54,000	\$11,400	54,000	\$11,400
Pilot/Emerging Technology Programs	2.10	\$0.04	45,000	\$7,800	45,000	\$7,800	45,000	\$7,800
Subtotal - Business Solutions	N/A	N/A	2,145,000	\$314,900	2,145,000	\$314,900	2,145,000	\$314,900
Total Program Portfolio			2,858,000	\$505,900	2,858,000	\$505,900	2,858,000	\$505,900
Utility Program Administration Evaluation (EM&V)				\$61,900		\$61,900		\$61,900
Subtotal - Admin/Evaluation				\$65,200		\$65,200		\$65,200
Projected Annual Totals	4.6	\$0.02	2,858,000	\$570,100	2,858,000	\$570,100	2,858,000	\$570,100

Coldwater Board of Public Utilities will continue operating under the current Commission approved Plan with no changes at this time.

Attachment A: Croswell Light & Power Department Energy Waste Reduction Program Portfolio U-18287

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	7,631	\$2,289	7,645	\$2,337	7,836	\$2,441
Residential Services	11.54	\$0.010	69,778	\$10,011	69,901	\$10,222	71,649	\$10,675
Educational Services	0.38	\$0.166	2,805	\$454	2,805	\$466	2,805	\$477
Pilot Programs	3.22	\$0.017	4,675	\$757	4,675	\$776	4,675	\$796
Administration				\$757		\$776		\$796
Evaluation				\$454		\$466		\$477
Subtotal - Residential Solutions	9.56	\$0.012	84,888	\$14,723	85,025	\$15,043	86,964	\$15,662
Business Services	4.99	\$0.010	294,033	\$44,597	294,555	\$44,676	301,919	\$45,793
Educational Services	0.40	\$0.152	10,981	\$1,666	11,256	\$1,707	11,537	\$1,750
Pilot/Emerging Technology Programs	3.42	\$0.015	18,302	\$2,776	18,760	\$2,845	19,229	\$2,917
Administration				\$2,776		\$2,845		\$2,917
Evaluation				\$1,666		\$1,707		\$1,750
Subtotal - Business Solutions	4.34	\$0.012	323,317	\$53,480	324,571	\$53,781	332,686	\$55,126
Total Program Portfolio	5.34	\$0.012	408,205	\$68,203	409,597	\$68,824	419,650	\$70,788

Attachment A: Daggett Electric Department Waste Reduction Program Portfolio U-18289

Portfolio Category	Program Portfolio	2018		2019		2020			
		USRCT Results	CCE Results	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	302	\$847	304	\$857		
	ENERGY STAR Products	2.84	\$0.011	8,407	\$1,299	8,512	\$1,239		
	Educational Services	0.28	\$0.346	268	\$57	270	\$55		
	Pilot Programs	2.61	\$0.011	488	\$95	492	\$92		
	Subtotal - Residential Solutions	2.30	\$0.018	9,465	\$2,298	9,578	\$2,243		
Commercial & Industrial	Self-Direct Customers								
	General Business Services	5.02	\$0.012	1,800	\$1,266	1,799	\$1,251		
	Educational Services	0.42	\$0.193	59	\$47	59	\$46		
	Pilot/Emerging Technology Programs	3.99	\$0.019	98	\$78	98	\$77		
	Subtotal - Business Solutions	4.23	\$0.014	1,957	\$1,391	1,956	\$1,374		
	Total Program Portfolio	2.94	\$0.016	11,422	\$3,689	11,534	\$3,617		
Portfolio-Level Costs	MECA Overall Administration				\$375		375		
	Municipal Overhead/Indirect Tracking Systems Evaluation				\$300		300		
	Subtotal - Portfolio Level Costs				\$35		35		
	Projected Annual Totals			11,422	\$4,399	11,534	\$4,327		

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not Included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: Eaton Rapids Energy Waste Reduction Program Portfolio U-18292

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	23,851	\$7,154	22,293	\$6,686	22,837	\$6,849
Residential Services	11.54	\$0.010	254,611	\$36,313	264,417	\$37,712	273,418	\$38,964
Educational Services	0.38	\$0.159	10,089	\$1,566	10,089	\$1,605	10,089	\$1,645
Pilot Programs	3.22	\$0.016	16,815	\$2,609	16,815	\$2,675	16,815	\$2,741
Administration Evaluation				\$2,609		\$2,675		\$2,741
Subtotal - Residential Solutions	9.79	\$0.012	305,366	\$51,817	313,613	\$52,957	323,159	\$54,586
Business Services	4.99	\$0.010	630,186	\$88,225	655,036	\$91,704	671,595	\$94,022
Educational Services	0.40	\$0.140	24,178	\$3,385	24,804	\$3,473	25,446	\$3,562
Pilot/Emerging Technology Programs	3.42	\$0.014	40,296	\$5,641	41,340	\$5,788	42,410	\$5,937
Administration Evaluation				\$5,641		\$5,788		\$5,937
Subtotal - Business Solutions	4.35	\$0.011	694,660	\$106,278	721,181	\$110,224	739,452	\$3,562
Total Program Portfolio	5.96	\$0.011	1,000,026	\$158,095	1,034,794	\$163,181	1,062,611	\$167,608

Attachment A: Escanaba Electric Department Waste Reduction Program Portfolio U-18293

Portfolio Category	Program Portfolio	2018		2019		2020			
		USRCT Results	CCE Results	Gross First Year Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	21,298	\$8,847	21,298	\$8,847		
	ENERGY STAR Products	2.84	\$0.011	196,275	\$29,722	196,933	\$29,773		
	Appliance Recycling	2.23	\$0.030	45,689	\$12,882	45,689	\$12,882		
	Efficient HVAC Equipment	1.81	\$0.034	33,285	\$18,707	33,285	\$18,707		
	Audit/Weatherization/New Construction	2.68	\$0.023	30,337	\$7,201	30,337	\$7,201		
	Educational Services	0.28	\$0.200	10,665	\$2,454	10,681	\$2,531		
	Pilot Programs	2.61	\$0.018	17,774	\$4,090	17,802	\$4,219		
Subtotal - Residential Solutions	2.3	\$0.020	355,323	\$83,903	356,025	\$84,160			
Commercial & Industrial	Self-Direct Customers								
	General Business Services	5.02	\$0.012	969,029	\$146,000	971,264	\$148,920		
	Educational Services	0.42	\$0.146	31,599	\$5,694	31,672	\$5,875		
	Pilot/Emerging Technology Programs	3.99	\$0.015	52,665	\$9,489	52,786	\$9,792		
	Subtotal - Business Solutions	4.23	\$0.013	1,053,293	\$161,183	1,055,722	\$164,587		
	Total Program Portfolio	2.94	\$0.015	1,408,616	\$245,086	1,411,747	\$248,747		
Portfolio-Level Costs	MECA Overall Administration								
	Municipal Overhead/Indirect Tracking Systems Evaluation								
	Subtotal - Portfolio Level Costs				\$12,406		\$12,534		
	Projected Annual Totals			1,408,616	\$257,492	1,411,747	\$261,281		

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: Grand Haven Board of Light & Power Energy Waste Reduction Program Portfolio U-18295

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	111,886	\$33,558	108,618	\$32,578	112,034	\$33,602
Residential Services	9.13	\$0.012	728,422	\$123,267	707,149	\$119,666	729,387	\$123,430
Educational Services	0.38	\$0.180	38,577	\$7,200	38,577	\$6,808	38,577	\$6,881
Pilot Programs	3.22	\$0.018	64,295	\$11,999	64,295	\$11,346	64,295	\$11,469
Administration				\$11,999		\$11,346		\$11,469
Evaluation				\$7,200		\$6,808		\$6,881
Subtotal - Residential Solutions	7.23	\$0.015	943,181	\$195,222	918,640	\$188,552	944,294	\$193,732
Business Services	4.94	\$0.010	1,815,540	\$276,510	1,884,114	\$286,954	1,911,202	\$291,079
Educational Services	0.40	\$0.152	102,798	\$15,656	103,910	\$15,826	103,295	\$15,732
Pilot/Emerging Technology Programs	3.42	\$0.015	171,329	\$26,094	173,183	\$26,376	172,158	\$26,220
Administration				\$26,094		\$26,376		\$26,220
Evaluation				\$15,656		\$15,826		\$15,732
Subtotal - Business Solutions	4.07	\$0.012	2,089,667	\$360,009	2,161,206	\$371,357	2,186,654	\$374,983
Total Program Portfolio	5.02	\$0.013	3,032,848	\$555,231	3,079,846	\$559,909	3,130,948	\$568,715

Attachment A: Hart Hydro Electric Energy Waste Reduction Program Portfolio U-18297

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	NA	NA	7,526	\$2,150	7,662	\$2,189	7,726	\$2,207
Residential Services	8.95	\$0.011	60,613	\$9,812	66,971	\$10,674	73,358	\$11,520
Educational Services	0.38	\$0.175	2,923	\$506	2,923	\$514	2,923	\$516
Pilot Programs	3.22	\$0.018	4,871	\$843	4,871	\$856	4,871	\$860
Administration Evaluation				\$843		\$856		\$860
Subtotal - Residential Solutions	8.11	\$0.014	75,933	\$14,659	82,427	\$15,602	88,878	\$16,479
Business Services	4.95	\$0.010	367,522	\$55,887	378,376	\$57,537	380,684	\$57,889
Educational Services	0.40	\$0.009	16,410	\$2,495	16,667	\$2,534	16,730	\$2,544
Pilot/Emerging Technology Programs	3.42	\$0.253	27,350	\$4,159	27,778	\$4,224	27,883	\$4,240
Administration Evaluation				\$8,318		\$8,448		\$8,480
Subtotal - Business Solutions	3.85	\$0.013	411,282	\$75,850	422,820	\$77,813	425,297	\$78,241
Total Program Portfolio	4.48	\$0.013	487,215	\$90,510	505,247	\$93,414	514,175	\$94,720

Attachment A: Holland Board of Public Works Energy Waste Reduction Program Portfolio U-18299

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	304,390	\$91,295	315,094	\$94,505	320,299	\$96,066
Residential Services	10.17	\$0.011	1,723,745	\$270,117	1,784,146	\$279,563	1,813,520	\$284,156
Educational Services	0.38	\$0.678	425,529	\$75,738	425,529	\$80,317	425,529	\$80,268
Pilot Programs	3.22	\$0.045	283,686	\$50,492	283,686	\$53,545	283,686	\$53,512
Administration				\$25,658		\$27,749		\$27,890
Evaluation				\$10,263		\$11,100		\$11,156
Subtotal - Residential Solutions	6.70	\$0.017	2,737,350	\$523,564	2,808,454	\$546,779	2,843,034	\$553,048
Business Services	4.92	\$0.010	7,695,430	\$1,128,349	7,773,380	\$1,139,779	7,846,036	\$1,150,432
Educational Services	0.40	\$0.046	172,180	\$25,246	182,590	\$26,772	182,478	\$26,756
Pilot/Emerging Technology Programs	3.42	\$0.009	344,361	\$50,492	365,180	\$53,545	364,955	\$53,512
Administration				\$63,373		\$66,880		\$66,745
Evaluation				\$25,349		\$26,752		\$26,698
Subtotal - Business Solutions	4.43	\$0.011	8,211,971	\$1,292,810	8,321,150	\$1,313,729	8,393,468	\$1,324,142
Total Program Portfolio	5.01	\$0.012	10,949,321	\$1,816,374	11,129,604	\$1,860,507	11,236,502	\$1,877,190

Attachment A: Lansing Board of Water & Light Energy Waste Reduction Program Portfolio U-18301

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	592,565	\$239,247	552,697	\$247,059	529,340	\$267,149
Residential Services	5.06	\$0.020	4,819,059	\$840,112	2,418,729	\$609,059	1,753,851	\$531,179
Educational Services	0.83	\$0.050	534,387	\$106,877	534,387	\$106,790	534,387	\$109,602
Pilot Programs	1.92	\$0.020	427,509	\$85,502	427,509	\$85,432	427,509	\$87,682
Subtotal - Residential Solutions	4.22	\$0.022	6,373,520	\$1,271,738	3,933,322	\$1,048,340	3,245,087	\$995,612
Business Services	4.76	\$0.010	14,598,439	\$2,232,275	17,173,559	\$2,656,992	17,923,052	\$2,822,864
Educational Services	0.21	\$0.200	106,877	\$21,375	106,877	\$21,375	106,877	\$21,375
Pilot/Emerging Technology Programs	1.89	\$0.020	534,387	\$106,877	534,387	\$106,877	534,387	\$106,877
Subtotal - Business Solutions	4.61	\$0.011	15,239,703	\$2,360,527	17,814,823	\$2,785,244	18,564,316	\$2,951,116
Total Program Portfolio	4.51	0.012	21,613,223	\$3,632,265	21,748,145	\$3,833,584	21,809,403	\$3,946,728
LBWL Program Administration Evaluation (EM&V)				\$400,000		\$400,000		\$400,000
Subtotal - Admin/Evaluation				\$650,000		\$650,000		\$650,000
Projected Annual Totals	3.81	\$0.014	21,613,223	\$4,282,265	21,748,145	\$4,483,584	21,809,403	\$4,596,728

Attachment A: Lowell Light and Power Energy Waste Reduction Program Portfolio U-18302

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	14,889	\$4,466	14,458	\$4,336	14,349	\$4,304
Residential Services	9.08	\$0.012	171,996	\$28,792	167,013	\$27,958	165,757	\$27,748
Educational Services	0.38	\$0.169	7,702	\$1,371	7,702	\$1,291	7,702	\$1,252
Pilot Programs	3.22	\$0.017	12,837	\$2,284	12,837	\$2,152	12,837	\$2,087
Administration				\$2,284		\$2,152		\$2,087
Evaluation				\$1,371		\$1,291		\$1,252
Subtotal - Residential Solutions	7.49	\$0.014	207,424	\$40,568	202,011	\$39,182	200,646	\$38,729
Business Services	4.95	\$0.038	537,657	\$81,758	555,938	\$84,538	570,433	\$86,743
Educational Services	0.40	\$0.030	25,054	\$3,810	25,136	\$3,822	25,195	\$3,831
Pilot/Emerging Technology Programs	3.42	\$0.054	41,757	\$6,350	41,894	\$6,371	41,992	\$6,385
Administration				\$6,350		\$6,371		\$6,385
Evaluation				\$3,810		\$3,822		\$3,831
Subtotal - Business Solutions	4.21	\$0.042	604,468	\$102,078	622,967	\$104,924	637,620	\$107,176
Total Program Portfolio	5.03	\$0.029	811,892	\$142,646	824,978	\$144,106	838,266	\$145,905

Attachment A: Marquette Board of Light & Power Energy Waste Reduction Program Portfolio U-18303

Portfolio Category	Program Portfolio	2018		2019		2020			
		USRCT Results	CCE Results	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	42,502	\$17,654	42,502	\$17,654		
	ENERGY STAR Products	2.84	\$0.010	704,477	\$86,868	699,532	\$77,777		
	Appliance Recycling	2.23	\$0.030	136,762	\$38,560	136,762	\$38,560		
	Efficient HVAC Equipment	1.81	\$0.029	61,166	\$28,914	61,166	\$28,914		
	Audit/Weatherization/New Construction	2.68	\$0.022	34,014	\$7,897	34,014	\$7,897		
	Educational Services	0.28	\$0.179	31,928	\$6,363	31,768	\$6,331		
	Pilot Programs	2.61	\$0.016	53,214	\$10,604	52,947	\$10,552		
	Subtotal - Residential Solutions	2.30	\$0.016	1,064,063	\$196,860	1,058,691	\$187,685		
Commercial & Industrial	Self-Direct Customers								
	General Business Services	5.03	\$0.012	1,783,722	\$273,736	1,774,739	\$279,211		
	Educational Services	0.40	\$0.147	58,165	\$10,208	57,872	\$10,157		
	Pilot/Emerging Technology Programs	3.74	\$0.015	96,941	\$17,014	96,453	\$16,929		
	Subtotal - Business Solutions	4.18	\$0.013	1,938,828	\$300,958	1,929,064	\$306,297		
	Total Program Portfolio	2.90	\$0.014	3,002,891	\$497,818	2,987,755	\$493,982		
Portfolio-Level Costs	MECA Overall Administration								
	Municipal Overhead/Indirect Tracking Systems Evaluation								
	Subtotal - Portfolio Level Costs				\$25,889		\$26,169		
	Projected Annual Totals			3,002,891	\$523,707	2,987,755	\$520,151		

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not Included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: City of Marshall Energy Waste Reduction Program Portfolio

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	N/A	N/A	27,201	\$8,148	27,201	\$8,148	27,201	\$8,148
Residential Services	3.2	\$0.02	158,384	\$32,651	158,384	\$32,651	158,384	\$32,651
Educational Services	4.1	\$0.01	15,907	\$2,549	15,907	\$2,549	15,907	\$2,549
Subtotal - Residential Solutions	3.2	\$1.00	201,492	\$43,348	201,492	\$43,348	201,492	\$43,348
Business Services	4.3	\$0.01	843,084	\$108,737	843,084	\$108,737	843,084	\$108,737
Educational Services	4.1	\$0.01	15,907	\$2,549	15,907	\$2,549	15,907	\$2,549
Subtotal - Business Solutions	4.3	\$0.01	858,991	\$111,286	858,991	\$111,286	858,991	\$111,286
Total Program Portfolio			1,060,483	\$154,634	1,060,483	\$154,634	1,060,483	\$154,634
Program Administration Evaluation (EM&V)				\$8,496		\$8,496		\$8,496
Subtotal - Admin/Evaluation				\$6,797		\$6,797		\$6,797
Projected Annual Totals	3.7	\$0.01	1,060,483	\$169,927	1,060,483	\$169,927	1,060,483	\$169,927

City of Marshall will continue operating under the current Commission approved Plan with no changes at this time.

Attachment A: Newberry Water & Light Board Energy Waste Reduction Program Portfolio U-18306

Portfolio Category	Program Portfolio	2018		2019		2020			
		USRCT Results	CCE Results	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	3,157	\$1,311	3,157	\$1,311		
	ENERGY STAR Products	2.84	\$0.010	49,770	\$5,877	48,850	\$5,147		
	Appliance Recycling	2.23	\$0.030	10,159	\$2,864	10,159	\$2,864		
	Efficient HVAC Equipment	1.81	\$0.029	4,544	\$2,148	4,544	\$2,148		
	Audit/Weatherization/New Construction	2.68	\$0.022	2,527	\$587	2,527	\$587		
	Educational Services	0.28	\$0.175	2,289	\$451	2,258	\$446		
	Pilot Programs	2.61	\$0.016	3,815	\$752	3,763	\$744		
	Subtotal - Residential Solutions	2.30	\$0.017	76,261	\$13,990	75,258	\$13,247		
Commercial & Industrial	Self-Direct Customers								
	General Business Services	5.03	\$0.012	86,846	\$13,524	85,085	\$13,794		
	Educational Services	0.40	\$0.177	2,832	\$608	2,775	\$596		
	Pilot/Emerging Technology Programs	3.74	\$0.018	4,720	\$1,014	4,624	\$994		
	Subtotal - Business Solutions	4.18	\$0.014	94,398	\$15,146	92,484	\$15,384		
	Total Program Portfolio	2.90	\$0.015	170,659	\$29,136	167,742	\$28,631		
Portfolio-Level Costs	MECA Overall Administration								
	Municipal Overhead/Indirect Tracking Systems Evaluation								
	Subtotal - Portfolio Level Costs				\$2,586		\$2,615		
	Projected Annual Totals			170,659	\$31,722	167,742	\$31,246		

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not Included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: Niles Utilities Department Energy Waste Reduction Program Portfolio U-18307

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	41,296	\$12,386	40,443	\$12,130	39,839	\$11,949
Residential Services	10.65	\$0.011	460,733	\$70,572	490,963	\$74,282	526,699	\$78,772
Educational Services	0.38	\$0.160	22,238	\$3,615	22,238	\$3,741	22,238	\$3,854
Pilot Programs	3.22	\$0.070	37,063	\$6,025	37,063	\$6,236	37,063	\$6,423
Administration				\$6,025		\$6,236		\$6,423
Evaluation				\$3,615		\$3,741		\$3,854
Subtotal - Residential Solutions	8.67	\$0.013	561,329	\$102,237	590,707	\$106,366	625,838	\$111,274
Business Services	5.11	\$0.009	626,707	\$92,826	613,761	\$90,909	604,594	\$89,551
Educational Services	0.21	\$0.146	29,091	\$4,309	30,109	\$4,460	31,012	\$4,593
Pilot/Emerging Technology Programs	1.89	\$0.015	48,485	\$7,181	50,182	\$7,433	51,687	\$7,656
Administration				\$7,181		\$7,433		\$7,656
Evaluation				\$4,309		\$4,460		\$4,593
Subtotal - Business Solutions	4.29	\$0.011	704,283	\$115,807	694,052	\$114,694	687,293	\$114,049
Total Program Portfolio	6.26	\$0.012	1,265,612	\$218,044	1,284,759	\$221,060	1,313,131	\$225,323

Attachment A: Village of Paw Paw Energy Waste Reduction Program Portfolio U-18309

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	8,001	\$2,400	8,232	\$2,469	8,410	\$2,522
Residential Services	14.44	\$0.008	131,451	\$16,459	140,789	\$16,798	141,656	\$16,757
Educational Services	0.38	\$0.134	5,179	\$678	5,179	\$695	5,179	\$710
Pilot Programs	3.22	\$0.013	8,631	\$1,130	8,631	\$1,158	8,631	\$1,184
Administration				\$1,130		\$1,158		\$1,184
Evaluation				\$678		\$695		\$710
Subtotal - Residential Solutions	12.06	\$0.010	153,262	\$22,474	162,830	\$22,972	163,876	\$23,068
Business Services	5.05	\$0.010	236,772	\$30,890	243,604	\$31,781	248,878	\$32,469
Educational Services	0.40	\$0.130	8,657	\$1,129	8,873	\$1,158	9,073	\$1,184
Pilot/Emerging Technology Programs	3.42	\$0.013	14,428	\$1,882	14,789	\$1,929	15,122	\$1,973
Administration				\$1,882		\$1,929		\$1,973
Evaluation				\$1,129		\$1,158		\$1,184
Subtotal - Business Solutions	4.44	\$0.012	259,858	\$36,913	267,267	\$37,955	273,073	\$38,782
Total Program Portfolio	7.11	\$0.011	413,120	\$59,387	430,097	\$60,927	436,949	\$61,850

Attachment A: City of Petoskey Energy Waste Reduction Program Portfolio U-18310

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	20,922	\$6,275	21,021	\$6,305	21,126	\$6,336
Residential Services	12.86	\$0.009	302,248	\$40,653	303,677	\$40,845	305,195	\$41,049
Educational Services	0.38	\$0.148	10,264	\$1,491	10,264	\$1,519	10,264	\$1,548
Pilot Programs	3.22	\$0.015	17,107	\$2,484	17,107	\$2,531	17,107	\$2,579
Administration				\$994		\$1,013		\$1,032
Evaluation				\$994		\$1,013		\$1,032
Subtotal - Residential Solutions	11.40	\$0.010	350,542	\$52,890	352,069	\$53,225	353,693	\$53,576
Business Services	5.12	\$0.010	617,997	\$82,687	620,918	\$83,077	624,022	\$83,493
Educational Services	0.40	\$0.134	21,913	\$2,932	22,329	\$2,988	22,754	\$3,044
Pilot/Emerging Technology Programs	3.42	\$0.013	36,522	\$4,887	37,216	\$4,979	37,923	\$5,074
Administration				\$1,955		\$1,992		\$2,030
Evaluation				\$1,955		\$1,992		\$2,030
Subtotal - Business Solutions	4.69	\$0.011	676,432	\$94,414	680,463	\$95,028	684,699	\$95,670
Total Program Portfolio	6.91	\$0.011	1,026,974	\$147,304	1,032,532	\$148,253	1,038,391	\$149,246

Attachment A: Portland Light and Power Board Energy Waste Reduction Program Portfolio U-18311

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	21,880	\$6,562	22,372	\$6,710	22,931	\$6,878
Residential Services	9.13	\$0.011	146,212	\$21,953	149,496	\$22,446	153,234	\$23,007
Educational Services	0.38	\$0.174	6,282	\$1,066	6,282	\$1,092	6,282	\$1,120
Pilot Programs	3.22	\$0.017	10,470	\$1,776	10,470	\$1,820	10,470	\$1,866
Administration				\$1,776		\$1,820		\$1,866
Evaluation				\$1,066		\$1,092		\$1,120
Subtotal - Residential Solutions	8.95	\$0.013	184,844	\$34,199	188,619	\$34,981	192,916	\$35,856
Business Services	5.09	\$0.010	157,784	\$23,399	161,328	\$23,925	165,361	\$24,523
Educational Services	0.40	\$0.148	6,823	\$1,012	6,993	\$1,037	7,168	\$1,063
Pilot/Emerging Technology Programs	3.42	\$0.015	11,371	\$1,686	11,655	\$1,728	11,947	\$1,772
Administration				\$1,686		\$1,728		\$1,772
Evaluation				\$1,012		\$1,037		\$1,063
Subtotal - Business Solutions	4.35	\$0.011	175,978	\$28,795	179,977	\$29,456	184,476	\$30,192
Total Program Portfolio	6.60	\$0.012	360,822	\$62,994	368,596	\$64,437	377,392	\$66,048

Attachment A: Sebawaing Light & Water Dept. Energy Waste Reduction Program Portfolio U-18312

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	N/A	N/A	21,923	\$6,929	21,923	\$6,929	21,923	\$6,929
Residential Services	2.40	\$0.02	43,806	\$8,743	43,806	\$8,743	43,806	\$8,743
Educational Services	4.00	\$0.01	5,800	\$1,012	5,800	\$1,012	5,800	\$1,012
Pilot Programs	4.00	\$0.01	9,666	\$1,687	9,666	\$1,687	9,666	\$1,687
Subtotal - Residential Solutions	2.80	\$0.02	81,195	\$18,372	81,195	\$18,372	81,195	\$18,372
Business Services	4.30	\$0.01	289,981	\$41,020	289,981	\$41,020	289,981	\$41,020
Educational Services	4.00	\$0.01	5,800	\$1,012	5,800	\$1,012	5,800	\$1,012
Pilot/Emerging Technology Programs	4.00	\$0.01	9,666	\$1,687	9,666	\$1,687	9,666	\$1,687
Subtotal - Business Solutions	4.30	\$0.01	305,447	\$43,719	305,447	\$43,719	305,447	\$43,719
Total Program Portfolio			386,641	\$62,091	386,641	\$62,091	386,641	\$62,091
Utility Administration				\$2,700		\$2,700		\$2,700
Evaluation (EM&V)				\$2,700		\$2,700		\$2,700
Subtotal - Admin/Evaluation				\$5,399		\$5,399		\$5,399
Projected Annual Totals	3.8	\$0.01	386,641	\$67,490	386,641	\$67,490	386,641	\$67,490

Sebawaing Light & Water Dept. will continue operating under the current Commission approved Plan with no changes at this time.

Attachment A: South Haven Dept. of Public Works Energy Waste Reduction Program Portfolio U-18313

Portfolio Category	Program Portfolio	2018		2019		2020	
		USRCT Results	CCE Results	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	19,292	\$8,013	19,292	\$8,013
	ENERGY STAR Products	2.84	\$0.010	286,535	\$38,461	290,965	\$39,534
	Appliance Recycling	2.23	\$0.030	45,689	\$12,882	45,689	\$12,882
	Efficient HVAC Equipment	1.81	\$0.034	33,285	\$18,707	33,285	\$18,707
	Audit/Weatherization/New Construction	2.68	\$0.029	41,250	\$12,454	41,250	\$12,454
	Farm Services	5.02	\$0.014	15,240	\$2,315	15,240	\$2,315
	Educational Services	0.28	\$0.192	14,390	\$3,156	14,534	\$3,187
	Pilot Programs	2.61	\$0.018	23,983	\$5,260	24,223	\$5,312
	Subtotal - Residential Solutions	2.30	\$0.017	479,664	\$101,248	484,478	\$102,404
	Commercial & Industrial	Self-Direct Customers					
General Business Services		5.03	\$0.012	822,685	\$121,377	830,912	\$123,804
Educational Services		0.40	\$0.146	26,827	\$4,760	27,095	\$4,808
Pilot/Emerging Technology Programs		3.74	\$0.015	44,711	\$7,933	45,158	\$8,013
Subtotal - Business Solutions		4.18	\$0.013	894,223	\$134,070	903,165	\$136,625
Portfolio-Level Costs	Total Program Portfolio	2.90	\$0.014	1,373,887	\$235,318	1,387,643	\$239,029
	MECA Overall Administration						
	Municipal Overhead/Indirect Tracking Systems Evaluation						
	Subtotal - Portfolio Level Costs				\$12,649		\$12,901
Projected Annual Totals				1,373,887	\$247,967	1,387,643	\$251,930

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not Included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: St. Louis' Energy Waste Reduction Program Portfolio U-18314

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	15,749	\$4,723	15,705	\$4,710	15,893	\$4,767
Residential Services	10.22	\$0.013	104,433	\$16,517	104,142	\$16,471	105,393	\$16,669
Educational Services	0.38	\$0.181	5,064	\$895	5,064	\$917	5,064	\$940
Pilot Programs	3.22	\$0.018	8,439	\$1,492	8,439	\$1,529	8,439	\$1,567
Administration				\$1,492		\$1,529		\$1,567
Evaluation				\$895		\$917		\$940
Subtotal - Residential Solutions	8.12	\$0.015	133,685	\$26,013	133,350	\$26,073	134,789	\$26,450
Business Services	4.97	\$0.010	206,794	\$31,285	206,218	\$31,198	208,695	\$31,573
Educational Services	0.40	\$0.176	10,072	\$1,524	10,324	\$1,562	10,582	\$1,601
Pilot/Emerging Technology Programs	3.42	\$0.018	16,787	\$2,540	17,206	\$2,603	17,636	\$2,668
Administration				\$2,540		\$2,603		\$2,668
Evaluation				\$1,524		\$1,562		\$1,601
Subtotal - Business Solutions	4.16	\$0.012	233,653	\$39,412	233,748	\$39,528	236,913	\$40,111
Total Program Portfolio	5.55	\$0.013	367,337	\$65,425	367,097	\$65,601	371,702	\$66,561

Attachment A: City of Stephenson Energy Waste Reduction Program Portfolio U-18315

Portfolio Category	Program Portfolio	USRCT Results	CCE Results	2018		2019		2020	
				Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Residential	Low Income Services	1.72	\$0.037	1,133	\$470	1,133	\$470		
	ENERGY STAR Products	2.84	\$0.011	18,465	\$2,751	18,338	\$2,563		
	Appliance Recycling	2.23	\$0.030	3,645	\$1,028	3,645	\$1,028		
	Efficient HVAC Equipment	1.81	\$0.029	1,630	\$771	1,630	\$771		
	Audit/Weatherization/New Construction	2.68	\$0.022	906	\$210	906	\$210		
	Educational Services	0.28	\$0.346	841	\$199	836	\$201		
	Pilot Programs	2.61	\$0.011	1,401	\$332	1,394	\$335		
Subtotal - Residential Solutions		2.30	\$0.018	28,021	\$5,761	27,882	\$5,578		
Commercial & Industrial	Self-Direct Customers								
	General Business Services	5.02	\$0.012	29,456	\$4,525	29,307	\$4,615		
	Educational Services	0.42	\$0.193	961	\$227	956	\$229		
	Pilot/Emerging Technology Programs	3.99	\$0.019	1,601	\$379	1,593	\$382		
	Subtotal - Business Solutions	4.23	\$0.014	32,018	\$5,131	31,856	\$5,226		
	Total Program Portfolio	2.94	\$0.016	60,039	\$10,892	59,738	\$10,804		
Portfolio-Level Costs	MECA Overall Administration								
	Municipal Overhead/Indirect Tracking Systems Evaluation								
	Subtotal - Portfolio Level Costs				\$1,107		\$1,118		
Projected Annual Totals				60,039	\$11,999	59,738	\$11,922		

Will be included in next 2 year plan filing for 2020 & 2021

N/I = Not Included in Benefit/Cost Calculation
 N/A = Not appropriate; Included in overall B/C

Attachment A: Sturgis' Energy Waste Reduction Program Portfolio U-18316

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	66,870	\$20,056	67,755	\$20,321	68,093	\$20,423
Residential Services	9.78	\$0.012	450,650	\$72,513	456,613	\$73,472	458,896	\$73,840
Educational Services	0.38	\$0.182	21,809	\$3,901	21,809	\$3,975	21,809	\$4,051
Pilot Programs	3.22	\$0.018	36,348	\$6,502	36,348	\$6,625	36,348	\$6,751
Administration				\$6,502		\$6,625		\$6,751
Evaluation				\$3,901		\$3,975		\$4,051
Subtotal - Residential Solutions	7.81	\$0.014	575,676	\$113,374	582,524	\$114,994	585,146	\$115,866
Business Services	4.95	\$0.010	1,567,893	\$238,444	1,588,638	\$241,599	1,596,582	\$242,807
Educational Services	0.40	\$0.152	78,615	\$11,956	80,109	\$12,183	81,631	\$12,414
Pilot/Emerging Technology Programs	3.42	\$0.015	131,025	\$19,926	133,515	\$20,305	136,052	\$20,691
Administration				\$19,926		\$20,305		\$20,691
Evaluation				\$11,956		\$12,183		\$12,414
Subtotal - Business Solutions	4.14	\$0.012	1,777,533	\$302,208	1,802,262	\$306,575	1,814,264	\$309,017
Total Program Portfolio	5.01	\$0.013	2,353,210	\$415,582	2,384,786	\$421,568	2,399,410	\$424,883

Attachment A: Traverse City Light and Power Energy Waste Reduction Program Portfolio U-18317

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	75,901	\$22,765	78,674	\$23,596	79,105	\$23,726
Residential Services	13.62	\$0.011	463,612	\$72,505	522,107	\$80,557	570,939	\$86,976
Educational Services	0.38	\$0.177	21,095	\$3,654	21,095	\$3,678	21,095	\$3,840
Pilot Programs Administration Evaluation	3.22	\$0.018	35,159	\$6,090	35,159	\$6,130	35,159	\$6,400
				\$6,090		\$6,130		\$6,400
				\$3,654		\$3,678		\$3,840
Subtotal - Residential Solutions	8.49	\$0.013	595,767	\$114,759	657,034	\$123,769	706,298	\$131,181
Business Services	4.89	\$0.010	2,642,960	\$395,284	2,662,041	\$398,138	2,694,401	\$402,978
Educational Services	0.40	\$0.150	102,604	\$15,346	100,354	\$15,009	105,469	\$15,774
Pilot/Emerging Technology Programs Administration Evaluation	3.42	\$0.015	171,006	\$25,576	167,256	\$25,015	175,781	\$26,290
				\$25,576		\$25,015		\$26,290
				\$15,346		\$15,009		\$15,774
Subtotal - Business Solutions	4.26	\$0.011	2,916,570	\$477,127	2,929,650	\$478,186	2,975,651	\$487,106
Total Program Portfolio	5.26	\$0.012	3,512,337	\$591,885	3,586,685	\$601,955	3,681,949	\$618,287

Attachment A: Union City's Energy Waste Reduction Program Portfolio

U-18318

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	N/A	N/A	2,098	\$1,903	2,098	\$1,903	2,098	\$1,903
Residential Services	3.83	\$0.04	88,816	\$19,329	88,816	\$19,329	88,816	\$19,329
Educational Services	2.00	\$0.04	2,384	\$571	2,384	\$571	2,384	\$571
Subtotal - Residential Solutions			93,298	\$21,803	93,298	\$21,803	93,298	\$21,803
Business Services	4.50	\$0.02	63,258	\$12,252	63,258	\$12,252	63,258	\$12,252
Educational Services	2.00	\$0.04	2,384	\$571	2,384	\$571	2,384	\$571
Subtotal - Business Solutions			65,642	\$12,823	65,642	\$12,823	65,642	\$12,823
Total Program Portfolio			158,940	\$34,626	158,940	\$34,626	158,940	\$34,626
Utility Administration Evaluation (EM&V)				\$1,903		\$1,903		\$1,903
Subtotal - Admin/Evaluation				\$3,425		\$3,425		\$3,425
Projected Annual Totals	3.9	\$0.025	158,940	\$38,050	158,940	\$38,050	158,940	\$38,050

Union City will continue operating under the current Commission approved Plan with no changes at this time.

Attachment A: Wakefield Power and Light's Energy Waste Reduction Program Portfolio U-18319

Program Portfolio	USRT Results	CCE Results	2015 Plan Filing		2016 Plan Filing		2017 Plan Filing	
			Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget	Gross First Year kWh	Program Budget
Low Income Services	N/A	N/A	3,899	\$2,477	3,899	\$2,477	3,899	\$2,477
Residential Services	4.70	\$0.03	60,439	\$7,533	60,439	\$7,533	60,439	\$7,533
Educational Services	2.10	\$0.04	1,950	\$310	1,950	\$310	1,950	\$310
Subtotal - Residential Solutions			66,288	\$10,320	66,288	\$10,320	66,288	\$10,320
Business Services	6.30	\$0.02	61,739	\$8,152	61,739	\$8,152	61,739	\$8,152
Educational Services	2.10	\$0.04	1,950	\$310	1,950	\$310	1,950	\$310
Subtotal - Business Solutions			63,688	\$8,462	63,688	\$8,462	63,688	\$8,462
Total Program Portfolio			129,976	\$18,781	129,976	\$18,781	129,976	\$18,781
Utility Administration				\$1,032		\$1,032		\$1,032
Evaluation (EM&V)				\$826		\$826		\$826
Subtotal - Admin/Evaluation				\$1,858		\$1,858		\$1,858
Projected Annual Totals	4.6	\$0.02	129,976	\$20,639	129,976	\$20,639	129,976	\$20,639

Attachment A: Wyandotte's Energy Waste Reduction Program Portfolio U-18320

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	105,508	\$31,645	102,531	\$30,752	92,595	\$27,772
Residential Services	11.04	\$0.010	678,995	\$101,132	659,831	\$98,278	595,890	\$88,754
Educational Services	0.38	\$0.164	42,809	\$7,245	42,809	\$7,078	42,809	\$6,792
Pilot Programs	3.22	\$0.016	71,349	\$12,076	71,349	\$11,796	71,349	\$11,320
Administration				\$24,152		\$23,592		\$22,639
Evaluation				\$14,491		\$14,155		\$13,584
Subtotal - Residential Solutions	7.23	\$0.015	898,661	\$190,741	876,520	\$185,650	802,644	\$170,861
Business Services	4.94	\$0.010	561,561	\$85,538	570,257	\$86,863	617,833	\$94,109
Educational Services	0.40	\$0.152	34,599	\$5,270	35,317	\$5,380	40,659	\$6,193
Pilot/Emerging Technology Programs	3.42	\$0.015	57,665	\$8,784	58,862	\$8,966	67,764	\$10,322
Administration				\$17,567		\$17,932		\$20,644
Evaluation				\$10,540		\$10,759		\$12,386
Subtotal - Business Solutions	3.52	\$0.014	653,824	\$127,699	664,436	\$129,899	726,256	\$143,655
Total Program Portfolio	5.50	\$0.015	1,552,486	\$318,440	1,540,956	\$315,549	1,528,899	\$314,516

Attachment A: Zeeland's Energy Waste Reduction Program Portfolio U-18321

Program Portfolio	USRT Results	CCE Results	2018 Plan Filing		2019 Plan Filing		2020 Plan Filing	
			Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	NA	NA	31,438	\$9,429	32,569	\$9,768	33,111	\$9,931
Residential Services	13.62	\$0.009	415,709	\$56,252	515,645	\$64,400	522,413	\$63,738
Educational Services	0.83	\$0.139	17,321	\$2,385	17,321	\$2,425	17,321	\$2,387
Pilot Programs								
Administration				\$3,975		\$4,042		\$3,979
Evaluation				\$2,385		\$2,425		\$2,387
Subtotal - Residential Solutions	11.93	\$0.010	464,469	\$74,425	565,535	\$83,061	572,845	\$82,423
Business Services	4.81	\$0.010	3,166,566	\$413,638	3,266,003	\$426,627	3,354,678	\$438,210
Educational Services	0.21	\$0.131	111,397	\$14,551	112,791	\$14,734	112,175	\$14,653
Pilot/Emerging Technology Programs								
Administration				\$24,252		\$24,556		\$24,422
Evaluation				\$14,551		\$14,734		\$14,653
Subtotal - Business Solutions	4.29	\$0.012	3,277,963	\$466,993	3,378,795	\$480,650	3,466,853	\$491,938
Total Program Portfolio	5.26	\$0.011	3,742,432	\$541,418	3,944,330	\$563,711	4,039,698	\$574,361