Michigan Public Service Commission

Net Metering Program Report

for Calendar Year 2009

November 2010

This document is an annual report prepared by Staff from the Michigan Public Service Commission's Electric Reliability Division, Renewable Energy Section. The main source of the data provided is reports filed by Michigan electric utility companies. Staff thanks all of the utilities for their efforts to provide timely and accurate data and information used in preparing this report.

To stay informed about Michigan renewable energy activities, readers are invited to visit the Commission's Michigan Renewable Energy website, at http://www.michigan.gov/mrep. At that website, readers will find a Michigan Renewable Energy Calendar of Events and the opportunity to subscribe to the MPSC-MREP email distribution list, which presently has over 800 subscribers.

Michigan's Net Metering Program
Calendar Year 2009

2009 was a banner year for Michigan's net metering program as the Commission's new and improved Electric Interconnection and Net Metering Standards contributed to an 85% increase in customer participation levels for the last six months of the year. During 2009 Michigan's net metering program completed the transition from the voluntary program under Case No. U-14346 to the new program based on the net metering provision in 2008 PA 295. The MPSC Staff's final report[1] under the voluntary program for the year ended June 30, 2009 was issued in January 2010.

This report presents data from the utilities' March 31, 2010 annual net metering reports[2] which provide data for the calendar year 2009. Utilities will now report net metering program data each March 31 for the previous calendar year. As the report issued in January 2010 described the new net metering program in detail, this report will provide updated program participation data.

Net Metering Data and Analysis

This section of the report includes data and analysis about net metering. A detailed list of net metering customers is provided in Appendix A.

Program participation grew from 137 customers with a combined renewable generator nameplate total of 468 kW as of the end of June 2009 to 254 customers with 882 kW of renewable generation at year end.

The timing of the tremendous growth of 117 new customers and 414 kW of new renewable generation throughout the last six months of 2009 can be attributed to the implementation of the new net metering program and more importantly, the Commission's Electric Interconnection & Net Metering Standards which became effective in May 2009. Another factor which contributed to the increased participation is that Detroit Edison's SolarCurrents program incorporates net metering as one of the financial incentives. Twenty-six of Detroit Edison's 37 new net metering customers installed solar photovoltaic projects.

No utility reported net metering customers in the Category 2 (greater than 20 kW to 150 kW) or Category 3 (methane digester no larger than 550 kW) size categories. All data reported in this report reflects renewable generators in Category 1 (20 kW and under).

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[1] MREP Net Metering Report, January 2010:
http://www.michigan.gov/documents/mpsc/mrep_netmetering_2009_final_307978_7.pdf
[2] See docket U-15787 for utility net metering reports:
http://efile.mpsc.state.mi.us/efile/viewcase.php?casenum=15787

No Alternative Electric Suppliers (AES) filed reports indicating any of their customers were participating in net metering. Additionally, municipal utilities were asked to provide net metering customer participation information as part of 2008 PA 295 annual reporting. No municipal utilities reported any net metering customers.

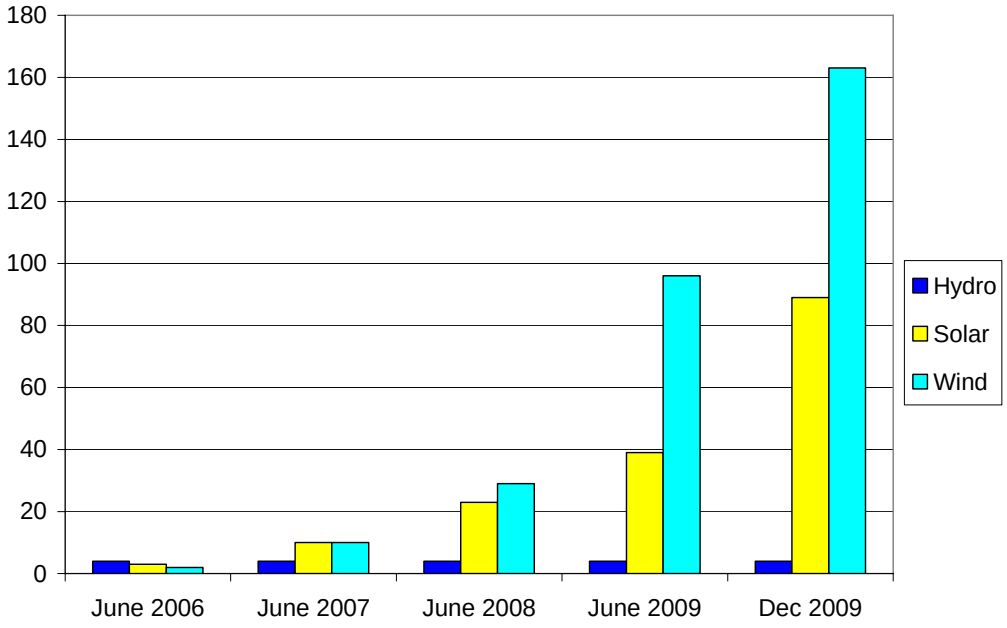
Table 1: Net Metering Summary by Company

Company	Category 1 Participation (No. of Customers)	Category 1 Nameplate Generation (kW)
Alpena	20	55
Consumers Energy	58	203
Detroit Edison	51	200
Cloverland (formerly Edison Sault)	10	23
Indiana Michigan	15	50
Uppco	21	52
We Energies	11	33
WPSC	1	2
Xcel	1	2
Alger Delta	4	9
Cherryland	5	8
Cloverland	7	16
Great Lakes	12	68
Midwest	12	43
Ontonagon	6	60
Presque Isle	17	48
Thumb	2	4
Tri County	1	5
Total	**254**	**882 kW**

Net metering data for Cherryland is not up to date due to the fact that the cooperative is member-regulated and no longer required to submit a net metering report.

Source: 2009 utility net metering annual reports.

Figure 1: Number of Michigan Net Metering Installations by Technology



Note: The total number of installations is higher than the number of customers because a few customers have installed two types of renewable energy (i.e., combined wind and solar generation, or solar and hydro).

Figure 2: Number of Net Metering Customers

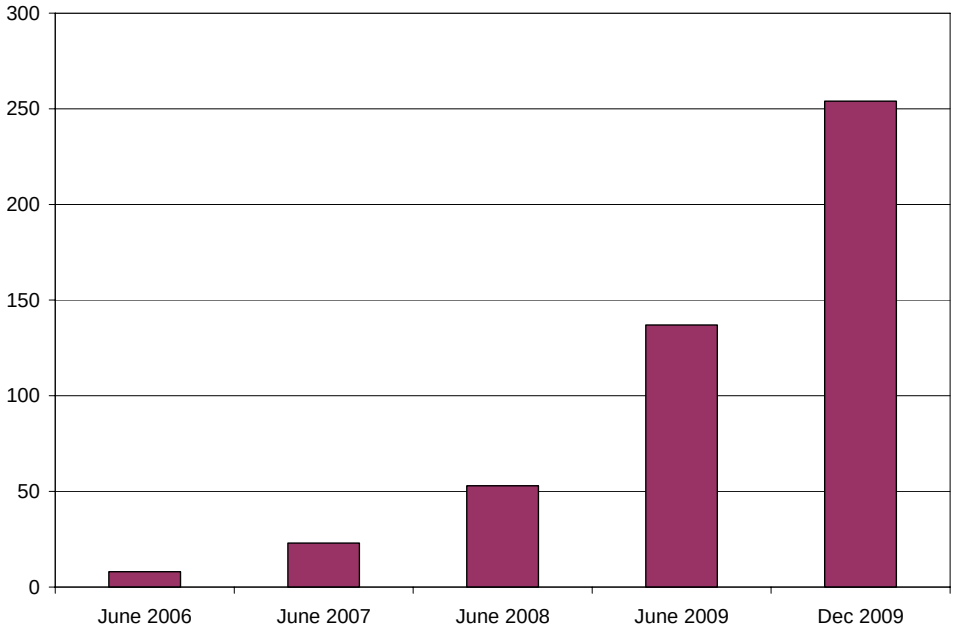
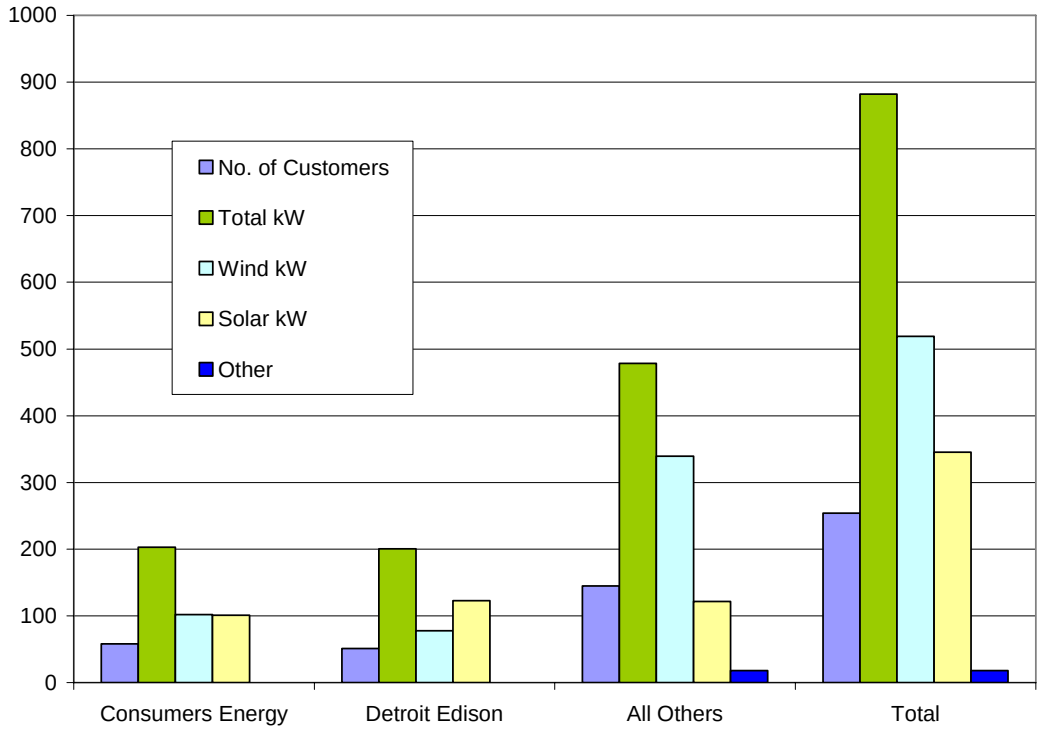


Figure 3: 2009 Net Metering Program - Installed Capacity (kW) & Number of Customers



Under 2008 PA 295, an electric utility is not required to allow for net metering that is greater than 1% of its in-state peak load for the preceding calendar year. One half of the 1% program size is allocated to Category 1 net metering. Table 2 shows the Category 1 net metering program space remaining for each electric utility.

Table 2: PA 295 Program Size and Net Metering Participation For Category 1, 20 kW and Under Projects

Company	2008 In-State Peak Load (MW)	Category 1 Cap 0.5% of 2008 Peak (kW)	Current Category 1 Participation (kW)	Category 1 Space Remaining (kW)
Investor Owned Utilities				
Alpena	**57**	284	55	229
Consumers Energy	**7,440**	37,200	203	36,997
Detroit Edison	**10,157**	50,785	200	50,585
Cloverland (formerly Edison Sault)	**103**	517	23	494
Indiana Michigan	**751**	3,755	50	3,705
Uppco	**144**	720	52	668
We Energies	**278**	1,391	33	1,358
WPSC	**154**	770	2	768
Xcel	**30**	150	2	148
Cooperative Utilities				
Alger Delta**	**20**	100	9	91
Cloverland	**42**	210	16	194
Great Lakes	**237**	1,183	68	1,115
Midwest	**121**	604	43	561
Ontonagon	**5**	27	60	0
Presque Isle	**44**	222	48	174
Thumb	**30**	150	4	146
Tri County	**74**	370	5	365

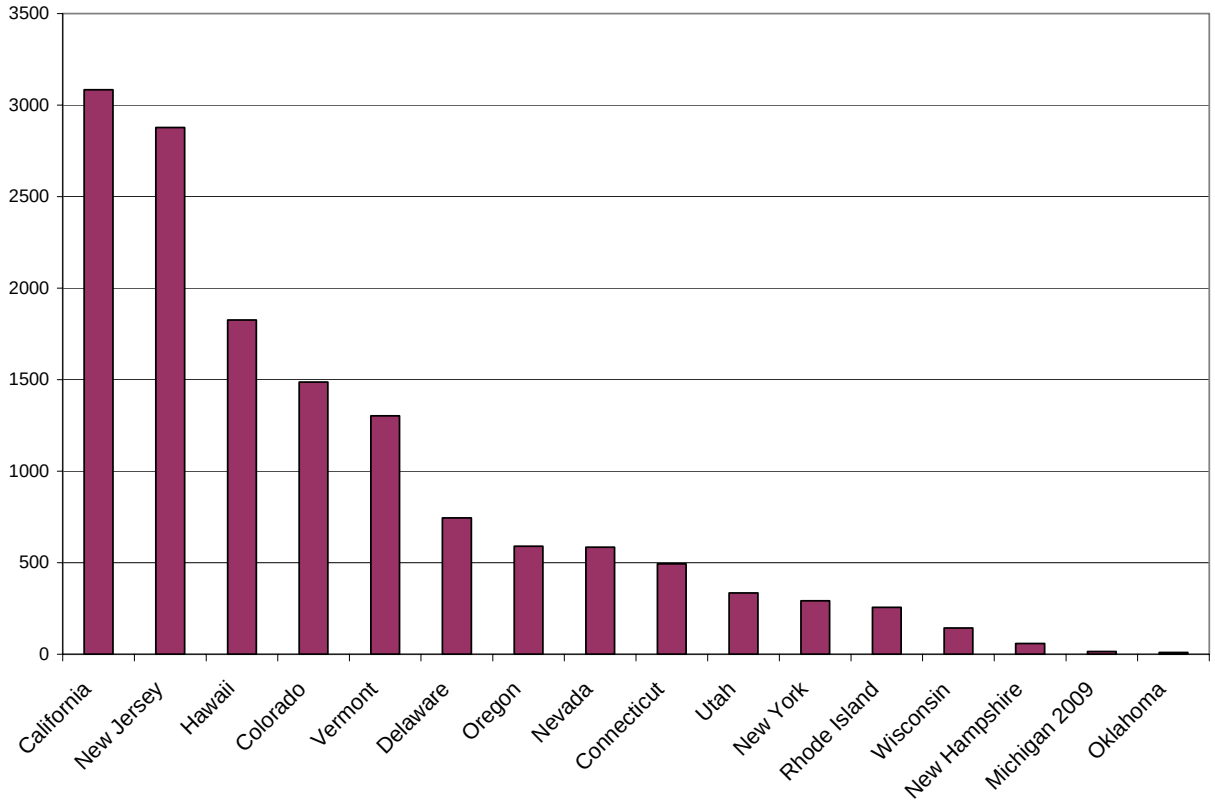
Note** Peak load taken from annual report.

Alger Delta and Tri-County are member-regulated cooperatives and are not required to offer net metering.

Data for Cherryland, a member-regulated cooperative, is not shown.

Source: 2009 MPSC electric provider net metering reports.

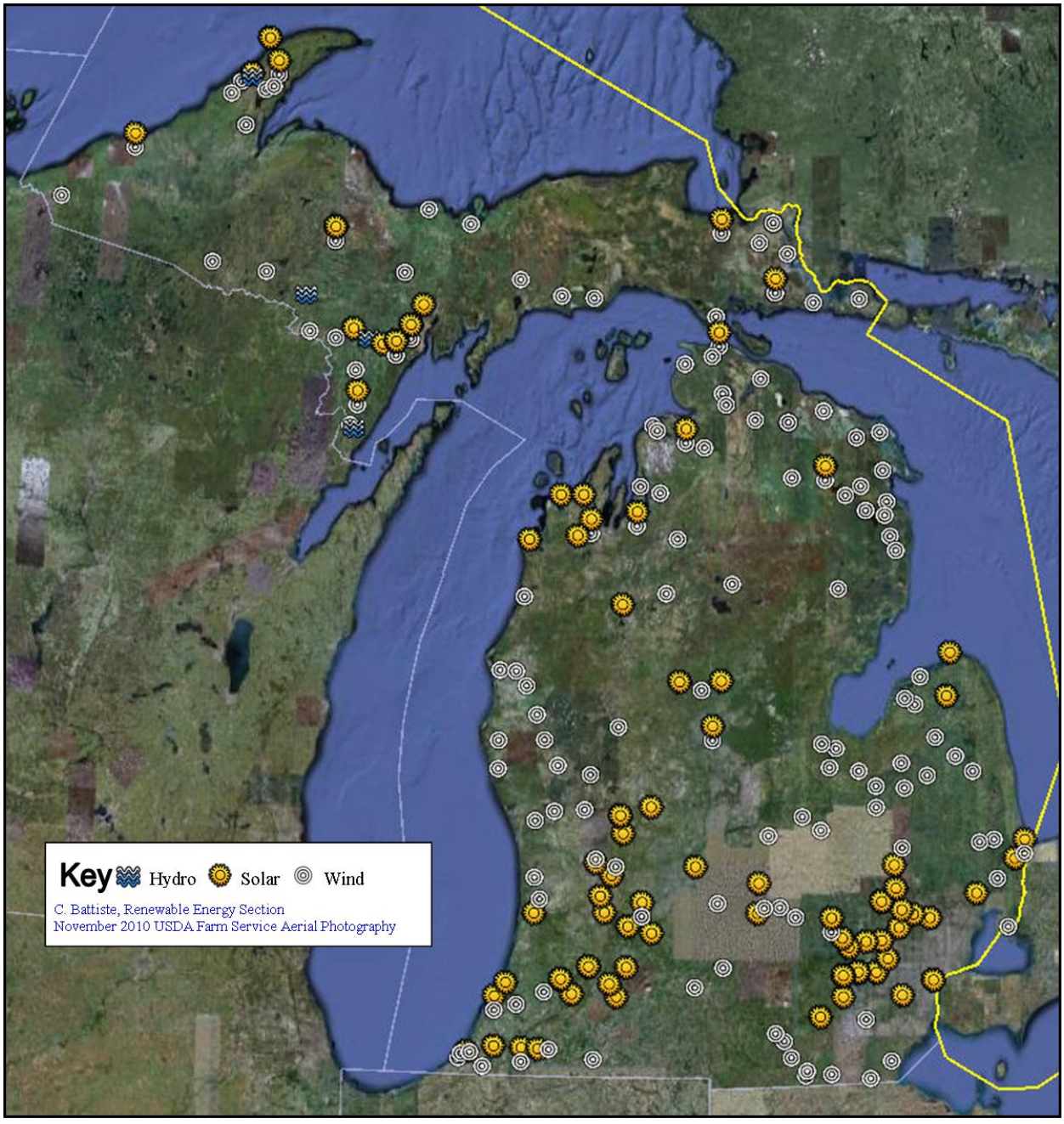
Figure 4: Comparative Net Metering Program Participation Rates in Selected States
2008 Net Metering Customers per Million Total Utility Customers (EIA Data)
2009 Data Shown for Michigan



Source: http://www.eia.doe.gov/cneaf/solar.renewables/page/greenprice/table5_2.xls

On the Energy Information Administration (EIA) web site, 2008 net metering data is the most recent available. As Michigan has 2009 net metering data available now, Michigan's 2009 data was substituted for the EIA Michigan 2008 data.

Figure 5: Locations of Michigan Net Metering Customers
(Cumulative Installations, December 2009, by Zip Code)



Source: Zip codes of participating net metering customers are provided to MPSC Staff by Michigan electric utilities. Customer identification information (name, address, account number, etc.) is confidential and protected from disclosure by Michigan electric suppliers.

Appendix A

Net Metering Installations by Utility, Year End 2009

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
1	1	Alger Delta	49858	August-03	Hydro	3
2	2	Alger Delta	49822	May-05	Wind	2.5
3	3	Alger Delta	49887	August-05	Solar	2
4	4	Alger Delta	49887	April-08	Wind	1.9
5	1	Alpena Power	49746	November-06	Solar	10
6	2	Alpena Power	49707	December-06	Wind	3
7	3	Alpena Power	49707	April-08	Wind	1.8
8	4	Alpena Power	49707	June-08	Wind	1.8
9	5	Alpena Power	49747	June-08	Wind	1.8
10	6	Alpena Power	49747	June-08	Wind	1.8
11	7	Alpena Power	49707	July-08	Wind	1.8
12	8	Alpena Power	49707	August-08	Wind	1.8
13	9	Alpena Power	49707	August-08	Wind	1.8
14	10	Alpena Power	49766	August-08	Wind	1.8
15	11	Alpena Power	49747	August-08	Wind	1.8
16	12	Alpena Power	49707	November-08	Wind	1.8
17	13	Alpena Power	49707	February-09	Wind	10
18	14	Alpena Power	49707	September-08	Wind	3.6
19	15	Alpena Power	49707	October-08	Wind	1.8
20	16	Alpena Power	49744	October-08	Wind	1.8
21	17	Alpena Power	49707	December-08	Wind	1.8
22	18	Alpena Power	49707	January-09	Wind	1.8
23	19	Alpena Power	49777	January-09	Wind	1.8
24	20	Alpena Power	49707	December-09	Wind	1.8
25	1	AEP/Indiana Michigan	49022	June-07	Solar	7.1
26	2	AEP/Indiana Michigan	49038	July-07	Solar	3.6
27	3	AEP/Indiana Michigan	49022	September-08	Wind	1.9
28	4	AEP/Indiana Michigan	49098	April-08	Wind	1.9
29	5	AEP/Indiana Michigan	49107	September-08	Solar	2.1
30	6	AEP/Indiana Michigan	49120	January-09	Wind	1.9
31	7	AEP/Indiana Michigan	49113	January-09	Wind	1.9
32	8	AEP/Indiana Michigan	49042	January-09	Wind	1.9
33	9	AEP/Indiana Michigan	49120	October-08	Solar	3.5
34	10	AEP/Indiana Michigan	49120	January-09	Wind	10
35	11	AEP/Indiana Michigan	49128	May-09	Solar	5.3
36	12	AEP/Indiana Michigan	49079	June-09	Solar	4
37	13	AEP/Indiana Michigan	49116	June-09	Wind	1.2

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
38	14	AEP/Indiana Michigan	49022	June-09	Wind	1.9
39	15	AEP/Indiana Michigan	49115	November-09	Wind	1.9
40	1	Cherryland	49643	January-07	Solar	0.66
41	2	Cherryland	49684	April-08	Wind	1.8
42	3	Cherryland	49684	June-08	Wind	1.8
43	4	Cherryland	49570	May-08	Wind	1.8
44	5	Cherryland	49690	February-08	Solar	2
45	1	Cloverland	49726	November-07	Wind	5
46	2	Cloverland	49725	August-08	Wind	1.8
47	3	Cloverland	49783	August-08	Wind	1.8
48	4	Cloverland	49715	June-09	Solar	2.4
49	5	Cloverland	49783	December-09	Wind	2.4
50	6	Cloverland	49783	November-09	Wind	1.2
51a	7a	Cloverland	49719	November-09	Solar	1.2
51b	7b	Cloverland	49719	November-09	Wind	0.06
52	1	Consumers Energy	49058	January-07	Wind	1.8
53	2	Consumers Energy	49621	January-07	Solar	5.5
54	3	Consumers Energy	49341	March-07	Solar	2.5
55	4	Consumers Energy	48145	April-07	Wind	3.7
56	5	Consumers Energy	49546	May-07	Wind	3.7
57	6	Consumers Energy	49635	August-07	Solar	1.8
58	7	Consumers Energy	49421	January-08	Wind	1.8
59	8	Consumers Energy	48858	January-08	Solar	10
60	9	Consumers Energy	49341	Febuary-08	Solar	3
61	10	Consumers Energy	48838	Febuary-08	Solar	3
62	11	Consumers Energy	49601	July-08	Solar	2.5
63	12	Consumers Energy	49675	July-08	Wind	1.8
64	13	Consumers Energy	48740	August-08	Wind	1.8
65	14	Consumers Energy	49058	August-08	Solar	5.8
66	15	Consumers Energy	48617	May-09	Solar	1.8
67	16	Consumers Energy	49284	July-09	Wind	10
68	17	Consumers Energy	49301	August-09	Solar	4
69	18	Consumers Energy	49307	August-09	Wind	1.2
70	19	Consumers Energy	48837	August-09	Wind	1.6
71	20	Consumers Energy	48653	August-09	Wind	3.7
72	21	Consumers Energy	49058	August-09	Wind	1.2
73	22	Consumers Energy	48762	August-09	Wind	3.7
74	23	Consumers Energy	48144	September-09	Wind	1.8
75	24	Consumers Energy	49451	September-09	Wind	1.8
76	25	Consumers Energy	49415	September-09	Wind	1.2
77	26	Consumers Energy	49424	September-09	Wind	2.4

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
78	27	Consumers Energy	48746	September-09	Wind	2.4
79	28	Consumers Energy	49412	September-09	Wind	1.2
80	29	Consumers Energy	49053	September-09	Solar	5
81	30	Consumers Energy	48616	September-09	Wind	2.4
82	31	Consumers Energy	49712	October-09	Solar	2
83	32	Consumers Energy	48742	October-09	Wind	3.7
84	33	Consumers Energy	48460	October-09	Wind	3.7
85	34	Consumers Energy	49408	October-09	Solar	3
86	35	Consumers Energy	49636	October-09	Solar	6
87	36	Consumers Energy	49330	October-09	Wind	1.2
88	37	Consumers Energy	48823	October-09	Solar	7
89	38	Consumers Energy	49009	October-09	Solar	7.2
90	39	Consumers Energy	48854	October-09	Solar	0.84
91	40	Consumers Energy	48858	October-09	Wind	1.8
92	41	Consumers Energy	49235	October-09	Wind	2.4
93	42	Consumers Energy	49009	October-09	Solar	3
94	43	Consumers Energy	49228	October-09	Wind	2.8
95	44	Consumers Energy	49046	October-09	Solar	5
96	45	Consumers Energy	49348	October-09	Solar	1.1
97	46	Consumers Energy	49651	October-09	Wind	1.2
98	47	Consumers Energy	48740	October-09	Wind	4.6
99	48	Consumers Energy	49064	November-09	Wind	10
100	49	Consumers Energy	49431	November-09	Wind	2.4
101	50	Consumers Energy	49253	November-09	Wind	1.2
102	51	Consumers Energy	49503	November-09	Wind	1.2
103	52	Consumers Energy	49423	November-09	Wind	10
104	53	Consumers Energy	49284	December-09	Wind	1.8
105	54	Consumers Energy	49316	December-09	Solar	3.5
106	55	Consumers Energy	48831	December-09	Wind	2.4
107	56	Consumers Energy	49068	December-09	Wind	2.4
108	57	Consumers Energy	49684	December-09	Solar	15.3
109	58	Consumers Energy	49701	December-09	Solar	2.1
110	1	Detroit Edison	48755	October-06	Wind	10
111	2	Detroit Edison	48755	October-06	Wind	10
112	3	Detroit Edison	48895	April-07	Wind	2.3
113	4	Detroit Edison	48103	August-07	Solar	2
114	5	Detroit Edison	48103	September-07	Solar	3.8
115	6	Detroit Edison	48198	Jaunuary-08	Solar	0.7
116	7	Detroit Edison	48187	Febuary-08	Solar	1.9
117	8	Detroit Edison	48472	June-08	Wind	0.3
118	9	Detroit Edison	48063	May-08	Wind	17

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
119	10	Detroit Edison	48302	May-08	Solar	3
120	11	Detroit Edison	48079	August-08	Solar	4
121	12	Detroit Edison	48843	August-08	Wind	1.8
122	13	Detroit Edison	48022	September-08	Wind	3.7
123	14	Detroit Edison	48723	September-08	Wind	1.8
124	15	Detroit Edison	48723	September-08	Wind	1.8
125	16	Detroit Edison	48726	October-08	Wind	10
126	17	Detroit Edison	48060	March-09	Wind	3.7
127	18	Detroit Edison	48060	March-09	Solar	3.6
128	19	Detroit Edison	48467	July-09	Solar	1.4
129	20	Detroit Edison	48176	August-9	Solar	2
130	21	Detroit Edison	48189	September-09	Solar	4
131	22	Detroit Edison	48383	September-09	Solar	4
132	23	Detroit Edison	48471	September-09	Wind	1.8
133	24	Detroit Edison	48084	September-09	Solar	1.5
134	25	Detroit Edison	48892	September-09	Wind	1.8
135	26	Detroit Edison	48331	October-09	Solar	4.1
136	27	Detroit Edison	48446	October-09	Wind	2
137	28	Detroit Edison	48103	October-09	Solar	7.2
138	29	Detroit Edison	48104	October-09	Solar	2
139	30	Detroit Edison	48104	October-09	Solar	4
140	31	Detroit Edison	48198	November-09	Solar	2.1
141	32	Detroit Edison	48028	November-09	Wind	1.2
142	33	Detroit Edison	48104	November-09	Solar	3.6
143	34	Detroit Edison	48143	November-09	Solar	2
144	35	Detroit Edison	48720	November-09	Wind	1.8
145	36	Detroit Edison	48768	November-09	Wind	1.9
146	37	Detroit Edison	48192	December-09	Solar	10.8
147	38	Detroit Edison	48192	December-09	Solar	1.4
148	39	Detroit Edison	48178	December-09	Solar	2.5
149	40	Detroit Edison	48324	December-09	Solar	2.5
150	41	Detroit Edison	48346	December-09	Solar	1.5
151	42	Detroit Edison	48383	December-09	Solar	3.8
152	43	Detroit Edison	48413	December-09	Solar	19.8
153	44	Detroit Edison	48462	December-09	Solar	3
154	45	Detroit Edison	48006	December-09	Wind	1.8
155	46	Detroit Edison	48051	December-09	Solar	8.6
156	47	Detroit Edison	48160	December-09	Wind	1.2
157	48	Detroit Edison	48164	December-09	Solar	3
158	49	Detroit Edison	48167	December-09	Solar	5
159	50	Detroit Edison	48726	December-09	Wind	1.8

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
160	51	Detroit Edison	48843	December-09	Solar	4
161	1	Edison Sault	49783	September-08	Wind	1.8
162	2	Edison Sault	49781	January-09	Wind	2
163	3	Edison Sault	49719	June-09	Wind	2.4
164	4	Edison Sault	49719	June-09	Wind	2.4
165	5	Edison Sault	49783	June-09	Wind	2.4
166	6	Edison Sault	49840	July-09	Wind	2.4
167	7	Edison Sault	49838	August-09	Wind	2.4
168	8	Edison Sault	49854	December-09	Wind	2.4
169	9	Edison Sault	49715	December-09	Wind	2.4
170	10	Edison Sault	49719	December-09	Wind	2.4
171	1	Great Lakes Energy	49455	August-08	Wind	1.8
172	2	Great Lakes Energy	49050	February-09	Solar	4
173	3	Great Lakes Energy	49459	July-09	Wind	1.8
174	4	Great Lakes Energy	49437	July-09	Wind	4
175	5	Great Lakes Energy	49646	July-09	Wind	20
176	6	Great Lakes Energy	49454	July-09	Wind	20
177	7	Great Lakes Energy	49405	July-09	Wind	1.8
178	8	Great Lakes Energy	49648	July-09	Wind	1.8
179	9	Great Lakes Energy	49615	July-09	Wind	1.8
180	10	Great Lakes Energy	49720	July-09	Wind	1.8
181	11	Great Lakes Energy	49344	July-09	Solar	4
182	12	Great Lakes Energy	49337	July-09	Wind	5
183	1	HomeWorks Tri-County	48875	January-09	Solar	5
184	1	Midwest	49002	January-08	Solar	2
185	2	Midwest	49220	January-08	Wind	5
186	3	Midwest	49097	August-08	Solar	3
187	4	Midwest	46514	November-08	Wind	10
188	5	Midwest	49279	December-08	Wind	5
189	6	Midwest	43521	January-09	Wind	1.8
190	7	Midwest	46530	February-09	Wind	1.8
191	8	Midwest	49065	April-09	Solar	2.8
192	9	Midwest	49031	June-09	Wind	1.8
193	10	Midwest	49112	August-09	Solar	3
194	11	Midwest	49286	August-09	Solar	4
195	12	Midwest	49079	October-09	Solar	3
196	1	Northern States/Xcel	49911	June-09	Wind	2.4
197	1	Ontonagon	49930	Late 1990s	Hydro & Solar	10
198	2	Ontonagon	49913	June-06	Solar	10
199	3	Ontonagon	49930	September-06	Solar	10
200	4	Ontonagon	49953	June-09	Wind	10

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
201	5	Ontonagon	49916	July-09	Wind	10
202	6	Ontonagon	49913	November-09	Wind	10
203	1	Presque Isle	49746	June-08	Wind	2.8
204	2	Presque Isle	49753	July-08	Wind	2.8
205	3	Presque Isle	49776	August-08	Wind	2.8
206	4	Presque Isle	49776	September-08	Wind	2.8
207	5	Presque Isle	49707	September-08	Wind	2.8
208	6	Presque Isle	49707	October-08	Wind	2.8
209	7	Presque Isle	49721	October-08	Wind	2.8
210	8	Presque Isle	49709	November-08	Wind	2.8
211	9	Presque Isle	49709	November-08	Wind	2.8
212	10	Presque Isle	49779	Febuary-09	Wind	2.8
213	11	Presque Isle	49707	June-09	Wind	2.8
214	12	Presque Isle	49707	January-09	Wind	2.8
215	13	Presque Isle	49709	July-09	Wind	2.8
216	14	Presque Isle	49765	July-09	Wind	2.8
217	15	Presque Isle	49765	August-09	Wind	2.8
218	16	Presque Isle	49765	September-09	Wind	2.8
219	17	Presque Isle	49765	October-09	Wind	2.8
220	1	Thumb	48744	June-08	Wind	1.9
221	2	Thumb	48744	July-09	Wind	1.9
222	1	UPPCo	49829	December-06	Wind	2
223	2	UPPCo	49829	May-08	Solar	7.6
224	3	UPPCo	49905	November-08	Wind	1.9
225	4	UPPCo	49931	December-08	Wind	1.9
226	5	UPPCo	49837	January-09	Solar	2
227	6	UPPCo	49913	January-09	Wind	1.9
228	7	UPPCo	49945	January-09	Wind	1.9
229	8	UPPCo	49807	July-09	Solar	2
230	9	UPPCo	49931	July-09	Wind	1.5
231	10	UPPCo	49805	August-09	Solar	2.7
232	11	UPPCo	49805	Auguat-09	Solar	2.7
233	12	UPPCo	49829	August-09	Wind	2.4
234	13	UPPCo	49849	August-09	Wind	2.4
235	14	UPPCo	49913	August-09	Wind	2.4
236	15	UPPCo	49934	August-09	Wind	2.4
237	16	UPPCo	49953	August-09	Solar	0.7
238	17	UPPCo	49807	October-09	Solar	2.7
239	18	UPPCo	49807	October-09	Wind	2.4
240	19	UPPCo	49829	October-09	Solar	2.8
241	20	UPPCo	49935	October-09	Wind	2.4

Number of Customers		Utility Company	Zip Code	Starting Month & Year	Technology Type	Generator Size (kW)
Total	Per Utility					
242	21	UPPCo	49916	December-09	Wind	3
243	1	We Energies	49886	April-86	Hydro	2.5
244	2	We Energies	49801	November-83	Hydro	2.5
245	3	We Energies	49807	April-07	Solar	0.7
246	4	We Energies	49896	September-08	Solar	1.2
247	5	We Energies	49880	October-08	Wind	5.5
248	6	We Energies	49880	November-08	Wind	5.5
249	7	We Energies	49812	April-09	Wind	6
250	8	We Energies	49876	June-09	Wind	2.4
251	9	We Energies	49892	July-09	Wind	2.4
252	10	We Energies	49920	September-09	Wind	2.4
253	11	We Energies	49847	November-09	Solar	2
254	1	WPSC	49893	June-08	Wind	2.5
Michigan Total	**254**	**Customers**				**882 kW**