

**DOWAGIAC DEPARTMENT OF PUBLIC SERVICES**

**RENEWABLE ENERGY PLAN  
U-16609**

**JULY 1, 2011**

- Based on this Renewable Energy Plan (REP) the Dowagiac Department of Public Services (City) will have the required Renewable Energy Credits (RECs) for the REP time period of 2012-2029 thereby complying with PA 295.
- The source of RECs is the City's wholesale power supplier, Indiana Michigan Power Company (I&M). According to their Amended REP filing (Case # U-16584), I&M has no incremental costs of compliance with PA 295. The City, therefore, will also not incur any incremental costs of compliance with PA 295.
- The City will not exceed the renewable energy surcharge caps specified in PA 295 in the event such surcharges are even used.
- The financial impact of this REP to the City's customers will be minimized.
- The City will comply with Section 45 of PA 295 which refers to methods of notification to customers charges, if any, for costs associated with its REP.

**ATTACHMENT C - RENEWABLE ENERGY PLAN SURCHARGE SUMMARY FOR MUNICIPAL UTILITIES**

ITEM		Units	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Sales Forecast - 3 yr running average</b>		MWH			64,982	65,140	69,532	70,662	71,114					
10% Compliance Factor					0.10	0.10	0.10	0.10	0.10					
RPS Requirement		MWH	-	-	-	6,514	6,953	7,066	7,111	7,111	7,111	7,111	7,111	7,111
RPS Required REC's		RECS	-	-	-	6,514	6,953	7,066	7,111	7,111	7,111	7,111	7,111	7,111
<b>BASELINE</b>	(-) REC's from Existing Renew. Energy Supply	RECS	-	-	-	-	-	-	-	-	-	-	-	-
<b>RECS - Incremental Difference</b>		RECS	-	-	-	6,514	6,953	7,066	7,111	7,111	7,111	7,111	7,111	7,111
<b>FACTOR</b>			-	-	-	0.20	0.33	0.50	1.00	1.00	1.00	1.00	1.00	1.00
<b>Required New RECS</b>		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
<b>RPS Renewable Energy Credit Compliance</b>														
Total RPS Required REC's		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
Required New RECS		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
RECs Obtained from New Resources		RECS	-	-	-	-	-	-	-	-	-	-	-	-
RECs Over / (Short) without carryover		RECS	-	-	-	(1,303)	(2,295)	(3,533)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)
REC Purchases / (Sales)		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
Cumulative RECs Compliance Balance		RECS	-	-	-	-	-	-	-	-	-	-	-	-
Incremental Compliance with New RECS		%	NA	NA	NA	0%	0%	0%	0%	0%	0%	0%	0%	0%
Compliance % with Cumulative REC Balance		%	NA	NA	NA	100%	100%	100%	100%	100%	100%	100%	100%	100%
<b>Revenue Requirements for New Renewables</b>														
Build		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PPA		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
REC Purchases (Sales)		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>New RECs Obtained</b>														
Generation Based														
Build		MWH	-	-	-	-	-	-	-	-	-	-	-	-
PPA		MWH	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		MWH	-	-	-	-	-	-	-	-	-	-	-	-
Purchase (Sold) From New RECS		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
Incentive (SB 213 Sec 39 (2))		RECS	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		RECS	-	-	-	1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111
<b>Forecasted Transfer Price per MWH - SUGGESTED</b>		\$/MWH	-	-	-	-	-	-	-	-	-	-	-	-
<b>Amount recovered through PSCR</b>														
Transfer price x volume of energy		\$	-	-	-	-	-	-	-	-	-	-	-	-
<b>Incremental Cost of Compliance</b>		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Non-Volumetric Surcharge</b>														
<b>Meter (or customer) Forecast (Number)</b>														
Residential		No.	2,209	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216
Secondary (Commercial)		No.	846	811	811	811	811	811	811	811	811	811	811	811
Primary (Industrial)		No.	42	41	41	41	41	41	41	41	41	41	41	41
<b>Total</b>		No.	3,097	3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068
<b>Maximum Surcharge (all rate classes at caps)</b>														
Residential		\$/MO	\$ 3.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial		\$/MO	\$ 16.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Industrial		\$/MO	\$ 187.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Streetsights		\$/MO	\$ 16.58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered		\$/MO	\$ 0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>		\$/MO	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Planned Surcharge</b>														
Residential		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Industrial		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Streetsights		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unmetered		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>		\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
-	-	-	-	-	-	-	-	-
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
(7,111)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)	(7,111)
7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111
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100%	100%	100%	100%	100%	100%	100%	100%	100%

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7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111

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2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216
811	811	811	811	811	811	811	811	811
41	41	41	41	41	41	41	41	41
3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068	3,068

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Dowagaic																									
2	REQUIRED RECS	RECS	Total	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
3																										
4	LOAD - 3 YEAR AVERAGE		***	-	-	64,982	65,140	69,532	70,662	71,114																
5	FACTOR			-	-	-	0.10	0.10	0.10	0.10																
6	RECS - REQUIRED		127,205				6,514	6,953	7,066	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	
7																										
8	RECS - PRE-REP RECS (BASELINE)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	RECS - INCREMENTAL DIFFERENCE						6,514	6,953	7,066	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	
10																										
11	FACTOR						0.20	0.33	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
12	RECS - NEW REQUIRED		113,802				1,303	2,295	3,533	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	7,111	
13																										
14																										
15	SOURCES			2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
16																										
17	EXISTING RENEWABLE SOURCES																									
18	ADDITIONS	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	XXX	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20	XXX	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	TOTAL	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22																										
23				-	-	-																				
24				-	-	-																				
25																										
26																										
27	NEW RENEWABLES:																									
28		RECS																								
29		RECS																								
30		RECS																								
31		RECS																								
32		RECS																								
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34		RECS																								
35																										
36	TOTAL NEW RENEWABLES	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
37	TOTAL OTHER RENEWABLES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
38	LESS PURCHASES/(SALES) by City			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
39	TOTAL SOURCES			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
40																										
41																										
42																										
43																										
44																										
45	USES		TOTAL																							
46	EXISTING SITE - 2009	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	EXISTING SITE - 2010	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
48	EXISTING SITE - 2011	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
49																										
50	WHOLESALE SUPPLIER - 2010	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
51	WHOLESALE SUPPLIER - 2011	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
52	WHOLESALE SUPPLIER - 2012	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
53	WHOLESALE SUPPLIER - 2013	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
54	WHOLESALE SUPPLIER - 2014	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
55	WHOLESALE SUPPLIER - 2015	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
56	WHOLESALE SUPPLIER - 2016	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
57	WHOLESALE SUPPLIER - 2017	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
58	WHOLESALE SUPPLIER - 2018	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
59	WHOLESALE SUPPLIER - 2019	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
60	WHOLESALE SUPPLIER - 2020	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
61	WHOLESALE SUPPLIER - 2021	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
62	WHOLESALE SUPPLIER - 2022	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
63	WHOLESALE SUPPLIER - 2023	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
64	WHOLESALE SUPPLIER - 2024	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
65	WHOLESALE SUPPLIER - 2025	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
66	WHOLESALE SUPPLIER - 2026	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
67	WHOLESALE SUPPLIER - 2027	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
68	WHOLESALE SUPPLIER - 2028	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
69	WHOLESALE SUPPLIER - 2029	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
70	TOTAL USES	RECS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
71	REMAINING NEEDED																									



