

CITY OF STURGIS

RENEWABLE ENERGY PLAN U-16634

NOVEMBER 2017

- Based on this Renewable Energy Plan (REP) the City of Sturgis (City) will have the required Renewable Energy Credits (RECs) for the REP time period of 2017-2029 thereby complying with PA 342.
- Other than City owned hydro generation, the sole source of RECs is the City's wholesale power supplier, Indiana Michigan Power Company (I&M). I&M does not charge the City any incremental costs for renewable energy credits. The City, therefore, will also not incur any incremental costs of compliance with PA 342.
- The City will not exceed the renewable energy surcharge caps specified in PA 342 as none are planned to be charged.
- The financial impact of this REP to the City's customers will be minimized.
- The City will comply with Section 45 of PA 342 which refers to methods of notification to customers charges, if any, for costs associated with its REP.

STURGIS

2017 RENEWABLE ENERGY CREDIT SUMMARY

	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029	
	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent	RECs	Percent
Technology Mix																										
Wind	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Solar	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Biomass	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Steam	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Geothermal	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Municipal Solid Waste	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Landfill Gas	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Hydroelectric	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Incentive	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%
Other	22,356	100.00%	22,356	100.00%	29,209	100.00%	29,946	100.00%	36,441	100.00%	36,915	100.00%	37,376	100.00%	37,828	100.00%	38,273	100.00%	38,709	100.00%	39,134	100.00%	39,546	100.00%	39,942	100.00%
Totals	22,356	100.00%	22,356	100.00%	29,209	100.00%	29,946	100.00%	36,441	100.00%	36,915	100.00%	37,376	100.00%	37,828	100.00%	38,273	100.00%	38,709	100.00%	39,134	100.00%	39,546	100.00%	39,942	100.00%
Program Type																										
PURPA																										
Net Metering																										
Feed-In Tariffs																										
Community Solar																										
Other	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA	PPA
Total																										

*RECs generated and obtained during the year less RECs sold or expired.

STURGIS

M:\RPS\RPS-2017-11\Sturgis\FINAL REP-S

Used for Compliance in...

Baseline RECs	2012	2013	2014	2015	2016	2017
11,232	13,416	14,926	16,753	22,356	22,356	5,647

Total Credits	Yearly Addition	Required	Current Surplus (Deficiency)	Year-End Surplus (Deficiency)	Expired or Sold
2012 28,329	2012 28,329	2012 13,416	2012 -	2012 -	2012 -
2013 54,278	2013 25,949	2013 14,926	2013 -	2013 -	2013 -
2014 97,978	2014 43,700	2014 16,753	2014 -	2014 -	2014 -
2015 117,216	2015 19,238	2015 22,356	2015 61,387	2015 49,765	2015 -
2016 126,201	2016 8,985	2016 22,356	2016 -	2016 36,394	2016 -
2017 148,557	2017 22,356	2017 22,356	2017 -	2017 36,394	2017 -
2018 170,913	2018 22,356	2018 22,356	2018 -	2018 36,394	2018 -
2019 200,122	2019 29,209	2019 29,209	2019 -	2019 36,394	2019 -
2020 230,068	2020 29,946	2020 29,946	2020 -	2020 36,394	2020 -
2021 266,509	2021 36,441	2021 36,441	2021 -	2021 36,394	2021 -
2022 303,424	2022 36,915	2022 36,915	2022 -	2022 36,394	2022 -
2023 340,800	2023 37,376	2023 37,376	2023 -	2023 36,394	2023 -
2024 378,628	2024 37,828	2024 37,828	2024 -	2024 36,394	2024 -
2025 416,901	2025 38,273	2025 38,273	2025 -	2025 36,394	2025 -
2026 455,610	2026 38,709	2026 38,709	2026 -	2026 36,394	2026 -
2027 494,744	2027 39,134	2027 39,134	2027 -	2027 36,394	2027 -
2028 534,290	2028 39,546	2028 39,546	2028 -	2028 36,394	2028 -
2029 574,232	2029 39,942	2029 39,942	2029 -	2029 36,394	2029 -

2009	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Total
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	-	-	-	-	-	-	-	-	-	-	-	-	-
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-

2010	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Total
Indiana Michigan	-	-	-	-	-	-	-	524	3,874	-	-	-	4,398
Current Vintage	-	-	-	-	-	-	-	524	3,874	-	-	-	4,398
Used for Compliance in 2012	-	-	-	-	-	-	-	524	3,874	-	-	-	4,398
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-

2011	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Total
Sturgis Hydro	-	-	-	-	-	-	-	-	-	-	763	843	1,606
Hydro iRECs	-	-	-	-	-	-	-	-	-	-	70	76	146
Indiana Michigan	-	4,680	8,306	1,940	-	-	-	-	-	-	-	-	14,926
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	-	4,680	8,306	1,940	-	-	-	-	-	-	833	919	16,678
Used for Compliance in 2012	-	-	-	-	-	-	-	-	-	-	833	919	1,752
Used for Compliance in 2013	-	4,680	8,306	1,940	-	-	-	-	-	-	-	-	14,926
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-

2012	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Total
3-Year Avg Sales	-	-	-	-	-	-	-	-	-	-	-	-	221,536
Baseline RECs	-	-	-	-	-	-	-	-	-	-	-	-	11,232
Required REC's	-	-	-	-	-	-	-	-	-	-	-	-	13,416
Sturgis RECs	1,022	1,178	1,128	1,075	784	246	70	114	92	202	296	418	6,625
Sturgis iRECs	94	112	108	97	76	24	9	16	11	19	27	35	628
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	1,116	1,290	1,236	1,172	860	270	79	130	103	221	323	453	7,253
Used for Compliance in 2012	1,116	1,290	1,236	1,172	860	270	79	130	103	221	323	434	7,234
Used for Compliance in 2014	-	-	-	-	-	-	-	-	-	-	-	19	19
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-

2013	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Total
3-Year Avg Sales	-	-	-	-	-	-	-	-	-	-	-	-	224,250
Baseline RECs	-	-	-	-	-	-	-	-	-	-	-	-	11,232
Required REC's	-	-	-	-	-	-	-	-	-	-	-	-	14,926
Sturgis RECs	530	960	1,056	989	1,095	706	647	432	365	325	635	677	8,417
iRECs	54	91	98	94	104	62	56	42	34	31	54	59	779
Indiana Michigan	-	-	-	-	16,753	-	-	-	-	-	-	-	16,753
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	584	1,051	1,154	1,083	17,952	768	703	474	399	356	689	736	25,949
Used for Compliance in 2012	-	-	-	32	-	-	-	-	-	-	-	-	32
Used for Compliance in 2014	584	1,051	1,154	1,051	1,199	768	703	474	399	356	689	736	9,164
Used for Compliance in 2015	-	-	-	-	16,753	-	-	-	-	-	-	-	16,753
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	-	-

2014	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Total
3-Year Avg Sales	-	-	-	-	-	-	-	-	-	-	-	-	222,747
Baseline RECs	-	-	-	-	-	-	-	-	-	-	-	-	11,232

Required REC's													16,753
Sturgis RECs	826	686	1,103	1,210	1,074	867	610	298	425	462	581	663	8,805
iRECs	77	65	100	118	101	78	54	27	38	47	50	58	813
Indiana Michigan	18,719	3,689	-	-	-	-	-	-	-	-	9,557	2,117	34,082
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	19,622	4,440	1,203	1,328	1,175	945	664	325	463	509	10,188	2,838	43,700
Used for Compliance in 2014	903	751	1,203	1,328	1,175	945	664	325	276	-	-	-	7,570
Used for Compliance in 2015	3,555	-	-	-	-	-	-	-	187	509	631	721	5,603
Used for Compliance in 2016	14,757	3,689	-	-	-	-	-	-	-	-	3,910	-	22,356
Used for Compliance in 2017	-	-	-	-	-	-	-	-	-	-	5,647	-	5,647
Expired/Sold RECs	407	-	-	-	-	-	-	-	-	-	-	-	407
Current Surplus	-	-	-	-	-	-	-	-	-	-	-	2,117	7,764

* 102 RECS sold

2015	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Total
3-Year Avg Sales													223,562
Baseline RECs													11,232
Required REC's													22,356
Sturgis RECs	624	419	909	857	650	917	1,200	483	403	303	402	605	7,772
iRECs	61	41	84	84	61	81	115	45	38	28	36	58	732
Indiana Michigan	-	-	2,626	8,108	-	-	-	-	-	-	-	-	10,734
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	685	460	3,619	9,049	711	998	1,315	528	441	331	438	663	19,238
Used for Compliance in 2015	-	-	-	-	-	-	-	-	-	-	-	-	-
Used for Compliance in 2016	-	-	-	-	-	-	-	-	-	-	-	-	-
Expired RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	685	460	3,619	9,049	711	998	1,315	528	441	331	438	663	19,238

IN MIRECS
8,504

2016	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
3-Year Avg Sales													223,562
Baseline RECs													11,232
Required REC's													22,356
Sturgis RECs	808	601	1,023	1,021	1,164	473	292	715	599	672	842	-	8,210
iRECs	66	58	101	117	102	46	23	67	56	62	77	-	775
Indiana Michigan	-	-	-	-	-	-	-	-	-	-	-	-	-
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	874	659	1,124	1,138	1,266	519	315	782	655	734	919	-	8,985
Used for Compliance in 2016	-	-	-	-	-	-	-	-	-	-	-	-	-
Expired RECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Surplus	874	659	1,124	1,138	1,266	519	315	782	655	734	919	-	8,985

2017	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
3-Year Avg Sales													223,562
Baseline RECs													11,232
Required REC's													22,356
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	927	927	927	927	927	927	927	927	927	927	927	927	11,124
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	22,356
Expired RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2018	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total
3-Year Avg Sales													223,562
Baseline RECs													11,232
Required REC's													22,356
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	927	927	927	927	927	927	927	927	927	927	927	927	11,124
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	1,863	22,356
Expired RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2019	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
3-Year Avg Sales													233,676
Baseline RECs													11,232
Required REC's													29,209
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	1,498	17,977
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	2,434	2,434	2,434	2,434	2,434	2,434	2,434	2,434	2,434	2,434	2,434	2,434	29,209
Expired RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2020	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
3-Year Avg Sales													239,564
Baseline RECs													11,232
Required REC's													29,946
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	18,714
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	29,946

Expired RECs

2021	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Total
3-Year Avg Sales													242,938
Baseline RECs													11,232
Required REC's													36,441
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,101	2,101	2,101	2,101	2,101	2,101	2,101	2,101	2,101	2,101	2,101	2,101	25,209
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,037	3,037	3,037	3,037	3,037	3,037	3,037	3,037	3,037	3,037	3,037	3,037	36,441
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2022	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
3-Year Avg Sales													246,098
Baseline RECs													11,232
Required REC's													36,915
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	25,683
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,076	3,076	3,076	3,076	3,076	3,076	3,076	3,076	3,076	3,076	3,076	3,076	36,915
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2023	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Total
3-Year Avg Sales													249,171
Baseline RECs													11,232
Required REC's													37,376
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,179	2,179	2,179	2,179	2,179	2,179	2,179	2,179	2,179	2,179	2,179	2,179	26,144
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,115	3,115	3,115	3,115	3,115	3,115	3,115	3,115	3,115	3,115	3,115	3,115	37,376
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2024	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Total
3-Year Avg Sales													252,189
Baseline RECs													11,232
Required REC's													37,828
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	2,216	26,596
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,152	3,152	3,152	3,152	3,152	3,152	3,152	3,152	3,152	3,152	3,152	3,152	37,828
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2025	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Total
3-Year Avg Sales													255,155
Baseline RECs													11,232
Required REC's													38,273
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,253	2,253	2,253	2,253	2,253	2,253	2,253	2,253	2,253	2,253	2,253	2,253	27,041
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	3,189	38,273
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2026	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Total
3-Year Avg Sales													258,063
Baseline RECs													11,232
Required REC's													38,709
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,290	2,290	2,290	2,290	2,290	2,290	2,290	2,290	2,290	2,290	2,290	2,290	27,477
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,226	3,226	3,226	3,226	3,226	3,226	3,226	3,226	3,226	3,226	3,226	3,226	38,709
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2027	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27	Total
3-Year Avg Sales													260,895
Baseline RECs													11,232
Required REC's													39,134
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,325	2,325	2,325	2,325	2,325	2,325	2,325	2,325	2,325	2,325	2,325	2,325	27,902
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,261	3,261	3,261	3,261	3,261	3,261	3,261	3,261	3,261	3,261	3,261	3,261	39,134
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-

2028	Jan-28	Feb-28	Mar-28	Apr-28	May-28	Jun-28	Jul-28	Aug-28	Sep-28	Oct-28	Nov-28	Dec-28	Total
------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------

3-Year Avg Sales													263,637	
Baseline RECs													11,232	
Required REC's													39,546	
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	2,360	28,314
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	3,296	39,546
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2029	Jan-29	Feb-29	Mar-29	Apr-29	May-29	Jun-29	Jul-29	Aug-29	Sep-29	Oct-29	Nov-29	Dec-29	Total	
	3-Year Avg Sales													266,283
	Baseline RECs													11,232
Required REC's													39,942	
Sturgis RECs	468	468	468	468	468	468	468	468	468	468	468	468	468	5,616
iRECs	468	468	468	468	468	468	468	468	468	468	468	468	468	5,616
Indiana Michigan	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	2,393	28,710
iRECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Current Vintage	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	3,329	39,942
Expired/Sold RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ITEM	Units	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Sales Forecast - 3 yr running average	MWH	223,562	223,562	223,562	233,676	239,564	242,938	246,098	249,171	252,189	255,155	258,063	260,895	263,637	266,283	
10% Compliance Factor		0.10	0.10	0.10	0.125	0.125	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
RPS Requirement	MWH	22,356	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,273	38,709	39,134	39,546	39,942	
RECS - RPS Required	RECS	22,356	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,273	38,709	39,134	39,546	39,942	
RECS - PRE-REP (BASELINE)	RECS	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	
RECS - Incremental Difference	RECS	11,124	11,124	11,124	17,977	18,714	25,209	25,683	26,144	26,596	27,041	27,477	27,902	28,314	28,710	
FACTOR		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	
Required New RECS	RECS	11,124	11,124	11,124	17,977	18,714	25,209	25,683	26,144	26,596	27,041	27,477	27,902	28,314	28,710	
RPS Renewable Energy Credit Compliance																
RECS CARRIED OVER	RECS	94,450	92,311	103,543	114,775	126,007	137,239	148,471	159,703	170,935	182,167	193,494	205,073	216,657	228,246	
RECS OBTAINED (NEW)	RECS	8,985	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,368	39,056	39,486	39,903	40,304	
RECS OBTAINED (BASELINE PLUS DIFFERENTIAL)	RECS	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	11,232	
REC PURCHASES / (SALES) FROM OTHER SOURCES	RECS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL RECS SOURCES		114,667	125,899	137,131	155,216	167,185	184,912	196,618	208,311	219,995	231,767	243,782	255,791	267,792	279,782	
REQUIRED RECS (BASELINE PLUS NEW)	RECS	22,356	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,273	38,709	39,134	39,546	39,942	
RECS USED FOR COMPLIANCE	RECS	22,356	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,273	38,709	39,134	39,546	39,942	
EXPIRED RECS	RECS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RECS CUMULATIVE BALANCE	RECS	92,311	103,543	114,775	126,007	137,239	148,471	159,703	170,935	182,167	193,494	205,073	216,657	228,246	239,840	
Incremental Compliance with New RECS	%	81%	201%	201%	162%	160%	145%	144%	143%	142%	142%	142%	142%	141%	140%	
Compliance % with Cumulative REC Balance	%	513%	563%	613%	531%	558%	507%	533%	557%	582%	606%	630%	654%	677%	700%	
Revenue Requirements for New Renewables																
Build (see project sheets for information)	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
PPA	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
REC Purchases (Sales)	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
RECs Obtained																
Generation Based																
Build (see project sheets for information)	RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PPA	RECs	8,985	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,368	39,056	39,486	39,903	40,304	
Subtotal	RECs	8,985	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,368	39,056	39,486	39,903	40,304	
Purchase (Sold) From New RECS	RECs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Incentive (SB 213 Sec 39 (2))	RECS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	RECS	8,985	22,356	22,356	29,209	29,946	36,441	36,915	37,376	37,828	38,368	39,056	39,486	39,903	40,304	
Amount recovered through PSCR																
Transfer price x volume of energy (see INCR COST sheet) - DNA	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Incremental Cost of Compliance (see INCR COST sheet) - DNA	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Additional investment above PA 295 requirements	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Non-Volumetric Surcharge																
Meter (or customer) Forecast (Number)																
RESIDENTIAL	NO.	6,062	6,349	6,449	6,537	6,622	6,704	6,785	6,865	6,944	7,020	7,094	7,165	7,234	7,299	
COMMERCIAL	NO.	931	975	990	1,004	1,017	1,030	1,042	1,054	1,066	1,078	1,089	1,100	1,111	1,121	
INDUSTRIAL	NO.	54	56	57	58	59	60	60	61	62	62	63	64	64	65	
STREETLIGHTS	NO.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UNMETERED	NO.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL METERS	NO.	7,047	7,381	7,497	7,599	7,698	7,794	7,888	7,981	8,072	8,161	8,246	8,329	8,409	8,485	
Maximum Surcharge (all rate classes at caps)																
RESIDENTIAL	\$ \$	3.00	\$ 18,186	\$ 19,048	\$ 19,348	\$ 19,612	\$ 19,865	\$ 20,113	\$ 20,356	\$ 20,596	\$ 20,831	\$ 21,060	\$ 21,282	\$ 21,495	\$ 21,701	\$ 21,898
COMMERCIAL	\$ \$	16.58	\$ 15,436	\$ 16,168	\$ 16,422	\$ 16,646	\$ 16,861	\$ 17,071	\$ 17,278	\$ 17,481	\$ 17,681	\$ 17,876	\$ 18,064	\$ 18,245	\$ 18,419	\$ 18,587
INDUSTRIAL	\$ \$	187.50	\$ 10,103	\$ 10,582	\$ 10,749	\$ 10,896	\$ 11,036	\$ 11,174	\$ 11,309	\$ 11,442	\$ 11,573	\$ 11,700	\$ 11,823	\$ 11,942	\$ 12,056	\$ 12,166
STREETLIGHTS	\$ \$	0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
UNMETERED	\$ \$	0.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$	\$ 43,726	\$ 45,798	\$ 46,519	\$ 47,154	\$ 47,763	\$ 48,358	\$ 48,943	\$ 49,519	\$ 50,085	\$ 50,636	\$ 51,168	\$ 51,681	\$ 52,176	\$ 52,651	
Planned Surcharge																
RESIDENTIAL	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
COMMERCIAL	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
INDUSTRIAL	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
STREETLIGHTS	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
UNMETERED	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	