

City of Gladstone PA 235 Renewable Energy Plan

This Renewable Energy Plan has been prepared in accordance with the requirements of Section 22 of 2023 PA 235 and the Michigan Public Service Commission's May 23, 2024 order in Case No. U-21568.

The City of Gladstone (Gladstone) is a long-term purchaser from WPPI Energy (WPPI). WPPI is a not-for-profit regional power company serving Gladstone and 50 other customer-owned electric utilities in Wisconsin, Michigan and Iowa. WPPI Energy will provide all RECs required to meet Gladstone's renewable energy standard. RECs provided by WPPI will be obtained through the means described in Section 28(5)(a) or (b) of 2023 PA 235, from renewable energy systems meeting the locational requirements of Section 29(1) or the exception to those requirements described in Section 29(3) thereto.

1. Detailed renewable resource plan

a. Forecast expected compliance levels by year to meet the renewable portfolio targets

Forecasted renewable energy compliance levels for 2025 – 2045 are shown in Row 18 of Table 1.

b. Identify key assumptions used in developing these forecasts and the proposed resource portfolio

Current year retail sales (Table 1, Row 11) are assumed to grow at a rate of 0.3 percent per year from actual 2023 retail sales.

c. Identify risks which may drive performance to vary

Higher than forecasted retail sales would result in higher renewable energy compliance levels than shown in Row 18 of Table 1, which would increase the number of RECs to be provided by WPPI, as shown in Row 22.

2. Sales forecast through 2045 for compliance with the renewable energy standard in PA 235 Section 28

Forecasted current year retail sales of electricity are shown in Row 11 of Table 1. As noted in Row 2, average annual retail sales for the previous 3 years will be used in the calculation of compliance requirements. The forecasted average of retail sales during the previous 3 years is shown in Row 15.

3. Forecasted megawatt hour outflow from distributed generation customers through 2045

Gladstone does not expect to utilize any distributed generation outflow toward compliance with the standard.

4. Forecasted megawatt hours attributable to the voluntary green pricing program through 2045

Gladstone does not expect to utilize any megawatt hours attributable to a voluntary green pricing program toward compliance with the standard.

5. Forecasted megawatt hours from nuclear energy for electric providers subject to PA 235 Sections (28)(3) and (4) through 2045

Not applicable.

6. Quantity of RECs

a. Outline the quantity of renewable energy credits (REC) the Company forecasts it must obtain each year to meet the RPS (PA 235 of 2023 Section 28(1))

A forecast of the quantity of RECs required to be obtained each year to meet the requirements of Section 28(1) of 2023 PA 235 is shown in Row 18 of Table 1. As noted earlier, WPPI will provide the required RECs (Row 22 of Table 1).

Table 1
PA 235 RENEWABLE ENERGY PLAN SUMMARY
CITY OF GLADSTONE

Row #		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1	Sales and Requirement Calculation											
2	Method: Weather Normalized or 3 Year Average	3 Year Average										
3	If Selected Weather Normalized:											
4	Current Year Sales to Retail Customers											
5	Less Number of Megawatt Hours Sold from Michigan Nuclear Energy											
6	Current Year Weather Normalization Factor											
7	Less VGP Sales											
8	Less Outflow from DG Customers											
9	Current Year Weather Normalized Sales											
10	If Selected 3 Year Average:											
11	Current Year Retail Sales to Retail Customers	31,581	31,676	31,771	31,866	31,962	32,057	32,154	32,250	32,347	32,444	32,541
12	Less Number of Megawatt Hours Sold from Michigan Nuclear Energy											
13	Less VGP Sales	-	-	-	-	-	-	-	-	-	-	-
14	Less Outflow from DG Customers											
15	3 Year Average of Retail Sales	31,266	31,486	31,581	31,676	31,771	31,866	31,962	32,057	32,154	32,250	32,347
16	RECs Reported to Provider Subject to Section 29(4)											
17	MWh Electricity Sold for PA-235 Compliance Requirement (Row 15 - 13 - 14 - 16)	31,266	31,486	31,581	31,676	31,771	31,866	31,962	32,057	32,154	32,250	32,347
18	RPS Required Energy Credits (Row 17 * Compliance Factor) (Compliance Factors: 2025-2029 = 15%, 2030-2034 = 50%, 2035+ = 60%)	4,690	4,723	4,737	4,751	4,766	15,933	15,981	16,029	16,077	16,125	19,408
19	Energy Credits											
20	Energy Credit Beginning Balance											
21	Energy Credits Obtained Through Generation/BOT											
22	Energy Credits Obtained Through PPA*	4,690	4,723	4,737	4,751	4,766	15,933	15,981	16,029	16,077	16,125	19,408
23	Energy Credits Obtained Through REC Purchases											
24	Plus: Energy Credits Obtained (Row 21 + 22 + 23)	4,690	4,723	4,737	4,751	4,766	15,933	15,981	16,029	16,077	16,125	19,408
25	Less: Energy Credits Sold											
26	Available Energy Credits (Row 20 + 24 - 25)	4,690	4,723	4,737	4,751	4,766	15,933	15,981	16,029	16,077	16,125	19,408
27	Compliance Requirement (Row 18)	4,690	4,723	4,737	4,751	4,766	15,933	15,981	16,029	16,077	16,125	19,408
28	Less: Energy Credit Expiration											
29	Energy Credit Ending Balance (Row 26 - 27 - 28)	-	-	-	-	-	-	-	-	-	-	-

Notes

* Supplied by WPPI Energy

Table 1 (cont.)
PA 235 RENEWABLE ENERGY PLAN SUMMARY
CITY OF GLADSTONE

Row #		2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
1	Sales and Requirement Calculation										
2	Method: Weather Normalized or 3 Year Average	3 Year Average									
3	If Selected Weather Normalized:										
4	Current Year Sales to Retail Customers										
5	Less Number of Megawatt Hours Sold from Michigan Nuclear Energy										
6	Current Year Weather Normalization Factor										
7	Less VGP Sales										
8	Less Outflow from DG Customers										
9	Current Year Weather Normalized Sales										
10	If Selected 3 Year Average:										
11	Current Year Retail Sales to Retail Customers	32,639	32,737	32,835	32,933	33,032	33,131	33,231	33,330	33,430	33,531
12	Less Number of Megawatt Hours Sold from Michigan Nuclear Energy										
13	Less VGP Sales	-	-	-	-	-	-	-	-	-	-
14	Less Outflow from DG Customers										
15	3 Year Average of Retail Sales	32,444	32,541	32,639	32,737	32,835	32,934	33,032	33,131	33,231	33,330
16	RECs Reported to Provider Subject to Section 29(4)										
17	MWh Electricity Sold for PA-235 Compliance Requirement (Row 15 - 13 - 14 - 16)	32,444	32,541	32,639	32,737	32,835	32,934	33,032	33,131	33,231	33,330
18	RPS Required Energy Credits (Row 17 * Compliance Factor) (Compliance Factors: 2025-2029 = 15%, 2030-2034 = 50%, 2035+ = 60%)	19,466	19,525	19,583	19,642	19,701	19,760	19,819	19,879	19,938	19,998
19	Energy Credits										
20	Energy Credit Beginning Balance										
21	Energy Credits Obtained Through Generation/BOT										
22	Energy Credits Obtained Through PPA*	19,466	19,525	19,583	19,642	19,701	19,760	19,819	19,879	19,938	19,998
23	Energy Credits Obtained Through REC Purchases										
24	Plus: Energy Credits Obtained (Row 21 + 22 + 23)	19,466	19,525	19,583	19,642	19,701	19,760	19,819	19,879	19,938	19,998
25	Less: Energy Credits Sold										
26	Available Energy Credits (Row 20 + 24 - 25)	19,466	19,525	19,583	19,642	19,701	19,760	19,819	19,879	19,938	19,998
27	Compliance Requirement (Row 18)	19,466	19,525	19,583	19,642	19,701	19,760	19,819	19,879	19,938	19,998
28	Less: Energy Credit Expiration										
29	Energy Credit Ending Balance (Row 26 - 27 - 28)	-	-	-	-	-	-	-	-	-	-

Notes

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