

## Renewable Energy

### 1. What is renewable energy?

Renewable energy is power generated by a resource that is **replenished within a human timeframe**. In Michigan, renewable energy is primarily generated from wind, sunlight, water (hydroelectric), woody biomass, municipal waste and landfill gas.

### 2. What is a renewable portfolio standard?

A [renewable portfolio standard](#) (RPS) requires utilities to **procure a percentage** of the electricity they sell from renewable resources. [Public Act 295 of 2008](#) (PA 295) outlined Michigan's first RPS and required electric providers to procure 10% of the generation required to meet their retail sales from renewable resources by the end of 2015. PA 295 was amended in 2016 by [Public Act 342](#) (PA 342), which updated Michigan's RPS. Under PA 342, electric providers are required to achieve a **12.5% RPS for 2019-20**, and meet an RPS of **15% by the end of 2021**.

### 3. What is a renewable energy credit?

A renewable energy credit (REC) is the means by which energy produced from renewable resources is measured and credited to the owner or producer of the energy. **One REC equals one megawatt-hour of energy that has been generated from renewable sources** and delivered to the electric grid.<sup>1</sup>

### 4. How much of Michigan's energy supply comes from renewable sources?

According to the Feb. 15, 2018, Michigan Public Service Commission (MPSC) [report](#) on the implementation and cost-effectiveness of the PA 295 renewable energy standard, utility-acquired or generated RECs were equal to 10.8% of retail sales in 2016. According to the same report, the RPS enacted in PA 295 can be credited with spurring the development of **more than 1,670 megawatts of new renewable energy projects**.

### 5. How much renewable energy is produced by customers in Michigan?

Since 2009, Michigan has seen a significant increase in the number of customers producing their own electricity by participating in net metering programs offered by electric providers. Michigan has more than 3,000 net metering customers who have installed nearly **30 megawatts of distributed generation** on the electric distribution system.

### 6. What is a renewable energy plan?

A renewable energy plan (REP) is a plan submitted by an electric provider to the MPSC describing **how the provider will meet the RPS**. Section 22 of PA 342, describes what must be included in an electric provider's plan. The current plans describe how the electric provider will meet its RPS for the remainder of the plan period ending 2029.

### 7. What is included in the REP?

In MPSC Case No. [U-18409](#), the MPSC [approved](#) **filing requirements** for REPs that require an electric provider to include:

- a) How it will **meet the RPS**
- b) How the provider anticipates **calculating the required RECs**
- c) The expected **incremental cost of compliance** with the renewable energy standards for the plan period ending 2029.
- d) How the electric provider's plan is consistent with the **state's goal of procuring 35%** of its energy needs from renewable energy and energy waste reduction by 2025.

<sup>1</sup> [https://www.michigan.gov/documents/mpsc/mcl-Act-295-of-2008\\_579268\\_7.pdf](https://www.michigan.gov/documents/mpsc/mcl-Act-295-of-2008_579268_7.pdf)

