

The purpose of this guide is to provide information about the intention of the Clean Peak Standard's **Resilience Multiplier** as well as examples of systems that do and do not qualify. Resilience multiplier eligibility is ultimately assessed on a per-application basis.

## **Resilience Multiplier Definition**

The resilience multiplier incentivizes systems that enable long-term, stable backup power for nonparasitic on-site load. From the Code of Massachusetts's Regulation (CMR) 225:

The Resilience Multiplier modifies the number of Clean Peak Energy Certificates generated by a Clean Peak Resource **that is also a Resilient Facility** and **can provide electric power to a load during external outage conditions**. Clean Peak Resources that can demonstrate the added ability to provide electricity to load during an external outage will receive a Resilience Multiplier on all eligible output occurring during Seasonal Peak Periods. The multiplier shall be one and one-half (1.5).

To be considered a **Resilient Facility** and thus eligible for the **Resilience Multiplier**, a facility must meet the following criteria:

- Have a Qualified Renewable Portfolio System (RPS) Resource capable of generating and providing electricity to on-site load during an outage condition. Qualified RPS resources include the following:
  - Solar photovoltaic (PV) or solar thermal electric energy
  - Wind energy
  - Ocean thermal, wave, or tidal energy
  - Fuel cells utilizing renewable fuels
  - Landfill gas
  - Energy generated by new hydroelectric facilities, or incremental new energy from increased capacity or efficiency improvements at existing hydroelectric facilities
- Include on-site load other than parasitic load. Parasitic load includes data or weather monitoring equipment that would not be there if the system did not exist.
- May include a Qualified Energy Storage and/or Demand Response Resource that enables the Qualified RPS Resource to provide electricity to on-site load during an external outage condition.



## **Eligible configuration examples**

- Qualified energy storage system that is co-located with a solar PV system. Because the PV
  resource can charge an energy storage resource, the system can serve on-site load in the event of
  an outage, regardless of whether the load coincides with periods of PV generation.
- Anaerobic digester that can support on-site loads in the event of a grid outage. Energy storage is not required for the anaerobic digester to provide electric power to on-site load during a grid outage.

## Ineligible configuration examples

- Standalone battery energy storage. Because the battery is not paired with a qualified RPS resource that can provide electricity to on-site loads in the event of an external outage, standalone storage does not qualify for the resilience multiplier.
- Solar PV array serving nearby homes but requiring an operational electric grid to transport and distribute electricity. Solar PV array on-site weather and data monitors are not considered on-site loads because they only report system performance and conditions.
- Energy storage systems facilitating generation of nonrenewable and non-RPS qualified technologies.
- RPS qualified technologies enabled to operate in an outage by resources that are not energy storage or demand response. Examples of this include an RPS qualified technology paired with a combined heat and power system (CHP) or diesel generator utilizing a non-renewable fuel to enable operation of RPS resource during an outage.



## Example of Eligible System's One-line Diagram