

GEW47-14

603.3.7.1, 603.3.7.2, 603.3.7.3, 603.3.7.4, 603.3.7.5

Proponent: Steven Rosenstock, Edison Electric Institute, representing Edison Electric Institute (srosenstock@eei.org)

Revise as follows:

603.3.7.1 Solar electric. Equipment and systems providing electric power through conversion of solar energy directly to electric power shall be capable of being metered so that the peak electric power (kW) provided to the building and its systems or to off-site entities can be determined at 15-minute intervals and the amount of electric power (kWh) provided to the building and its systems can be determined at intervals of 1 hour or less.

Exception: Systems with a rated output of less than 3 kW shall not be required to have the capacity to be metered.

603.3.7.2 Solar thermal. Equipment and systems providing heat to fluids or gases through the capture of solar energy shall be capable of being metered so that the peak thermal energy (Btu/h) provided to the building and its systems or to off-site entities can be determined at 15-minute intervals and the amount of heat captured (Btu) for delivery to the building and its systems can be determined intervals of 1 hour or less.

Exception: Systems with a rated output of less than ~~400~~ 25 kBtu/hr shall not be required to have the capacity to be metered.

603.3.7.3 Waste heat. Equipment and systems providing energy through the capture of waste heat shall be capable of being metered so that the amount of heat captured and delivered to the building and its systems can be determined at intervals of 1 hour or less.

Exception: Systems with a rated output of less than ~~400~~ 25 kBtu/hr shall not be required to have the capacity to be metered.

603.3.7.4 Wind power systems. Equipment and systems providing electric power through conversion of wind energy directly to electric power shall be capable of being metered so that the peak electric power (kW) provided to the building and its systems or to off-site entities can be determined at 15-minute intervals and the amount of electric power (kWh) provided to the building and its systems can be determined at intervals of 1 hour or less.

Exception: Systems with a rated output of less than 3 kW shall not be required to have the capacity to be metered.

603.3.7.5 Other renewable energy electric production systems. Equipment and systems providing electric power through conversion of other forms of renewable energy directly to electric power shall be capable of being metered so that the peak electric power (kW) provided to the building and its systems or to off-site entities can be determined at 15-minute intervals and the amount of electric power (kWh) provided to the building and its systems can be determined at intervals of 1 hour or less.

Exception: Systems with a rated output of less than 3 kW shall not be required to have the capacity to be metered.

Reason: Currently, renewable energy systems that produce thermal energy do not have to be metered if the output is less than 100,000 Btu per hour. However, all renewable energy systems that produce electric energy have to be metered, even if the output is as low as 1 Watt (3.413 Btu's per hour).

The proposed changes are designed to ensure that very small systems, regardless of whether they produce electric or thermal energy, are exempt from these requirements.

Cost Impact: Will not increase the cost of construction.

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