

Photovoltaic energy storage policy requirements





Overview

Do solar systems need polarity & energy storage regulations?

According to NEC Article 690, solar photovoltaic systems must align with the correct PV output polarity to link with energy storage systems and follow rules for a rapid shutdown. Designers need to pay close attention to these regulations, particularly regarding their systems' energy storage.

Do I need a license to install solar photovoltaic systems in Minnesota?

Answer: Yes. A new law effective July 1, 2023, requires companies that contract with residential homeowners to install solar photovoltaic (PV) systems on homes in Minnesota be licensed as a residential building contractor or remodeler.

What are the requirements for large PV power plants?

Large PV power plants (i.e., greater than 20 MW at the utility interconnection) that provide power into the bulk power system must comply with standards related to reliability and adequacy promulgated by authorities such as NERC and the Federal Energy Regulatory Commission (FERC).

Which building types require a photovoltaic (PV) system?

All newly constructed building types specified in Table 140.10-A, or mixed occupancy buildings where one or more of these building types constitute at least 80 percent of the floor area of the building, shall have a newly installed photovoltaic (PV) system meeting the minimum qualification requirements of Reference Joint Appendix JA11.

Can a new solar PV system be installed in a building?

Answer: No. The existing Rapid Shutdown system technology installed at the time of the initial installation of the solar PV system would be acceptable. NEC Section 690.12 addresses the Rapid Shutdown requirements for “new” solar PV systems installed in or on a building, and not to existing solar PV systems.



Do you follow NEC 690 if a photovoltaic process fuels an energy storage system?

If a photovoltaic process fuels an energy storage system, then you must follow NEC 690, specifically the eighth part. This part covers charge control, battery storage replacement, disconnects, and overcurrent security.



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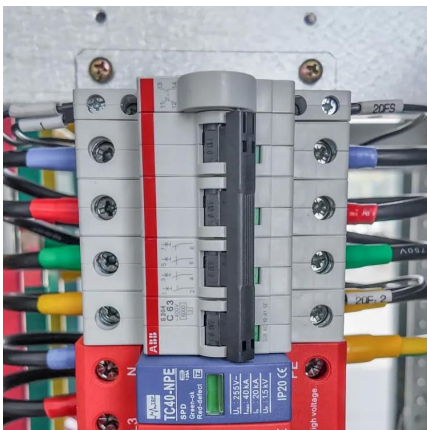


[Standards and Requirements for Solar Equipment, ...](#)

Expressly defining solar energy systems in the "definitions" section of the zoning code, providing definitions for the energy system type (e.g., rooftop, ground-mounted, and building-integrated), ...

[Solar photovoltaic \(PV\) systems and energy storage systems](#)

A new law effective July 1, 2023, requires companies that contract with residential homeowners to install solar photovoltaic (PV) systems on homes in Minnesota be licensed as a residential ...



[An Overview of Energy Storage Laws and Policies in the US](#)

Energy storage still faces significant challenges to reaching its full potential and these challenges are exacerbated as the time frame to reach widespread commercial use becomes increasingly ...

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