

ContainerPower Energy Solutions

Energy storage equipment construction organization plan



Overview

Do energy storage systems need a safety assessment?

Safety Assessment: As more energy storage systems have become operational, new safety features have been mandated through various codes and standards, professional organizations, and learned best practices. The design and commissioning teams need to stay current so that required safety assessments can be performed during commissioning.

Which components of a battery energy storage system should be factory tested?

Ideally, the power electronic equipment, i.e., inverter, battery management system (BMS), site management system (SMS) and energy storage component (e.g., battery) will be factory tested together by the vendors. Figure 2. Elements of a battery energy storage system.

Do energy storage subsystems have to pass a factory witness test?

Each subsystem must pass a factory witness test (FWT) before shipping. (Note: The system owner reserves the right to be present for the factory witness test.) This is the first real step of the commissioning process—which occurs even before the energy storage subsystems (e.g., power conditioning equipment and battery) are delivered to the site.

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