

# Seismic intensity standard for supercapacitors in solar container communication stations

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What standards are used for seismic design of substations?

The two main international groups of standards used for this work are IEEE 693 and IEC 61463. IEEE 693-2005, "Recommended Practice for Seismic Design of Substations" is a newly revised document covering the procedures for qualification of electrical substation equipment for different seismic performance levels.

What is a seismic standard?

This standard is recognized also by American National Standards Institute, and is used mainly in the American Continent. The goal of the standard is to provide a single set of rules and regulations that cover the seismic design of both new and existing electrical substations, hence leading to standardization.

Do electrical generating systems need a seismic certification?

Design standards for structures and systems to withstand a seismic event. The likelihood and severity of a seismic event anywhere in the U.S. is shown in (Figure 1); however, (Figure 4) shows where in the U.S. electrical generating systems require certification.

What are the requirements for designated seismic systems?

Requirements for designated seismic systems on the construction documents. Each manufacturer of designated seismic system components shall test or analyze the component and its mounting system or anchorage and submit a certificate of compliance for review and acceptance by the registered design professional in responsible charge for the design of

This paper provides critical reference values for evaluating the seismic performance of communication equipment and provides suggestions for laying out and installing the ...

In this paper, we propose a simple logistic method based on two-parameter sets of geology and building structure for the failure prediction of the base stations in post-earthquake.

The IEEE 693: Recommended Practice for Seismic Design of Substations. [1] is a Institute of Electrical and Electronics Engineers standard. This standard is recognized also by American ...

This recommended practice is designed as an integrated set of requirements for the seismic qualification of electrical power equipment. This recommended practice is to be ...

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IEEE Std 693 (TM) is designed as an integrated set of requirements for the seismic qualification of electrical power equipment. Users should use IEEE Std 693 without ...

**TELEMETRY:** Seismic stations often use communication (telemetry) to a central monitoring facility as part of a seismic network. The communication can be achieved by landlines (DSL, ...

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