

Kongres Container

Standards related to energy storage systems



Overview

As cited in the DOE OE ES Program Plan, “Industry requires specifications of standards for characterizing the performance of energy storage under grid conditions and for modeling behavior. Discussion.

Are energy storage systems compliant?

Energy storage systems continue to be a rapidly evolving industry. Thus, the key to safe and up-to-date compliance requirements involves the adoption and application of codes and standards in addition to the development or writing of codes and standards.

Does industry need energy storage standards?

As cited in the DOE OE ES Program Plan, “Industry requires specifications of standards for characterizing the performance of energy storage under grid conditions and for modeling behavior. Discussions with industry professionals indicate a significant need for standards. ” [1, p. 30].

Are energy storage codes & standards needed?

Discussions with industry professionals indicate a significant need for standards . ” [1, p. 30]. Under this strategic driver, a portion of DOE-funded energy storage research and development (R&D) is directed to actively work with industry to fill energy storage Codes & Standards (C&S) gaps.

How are energy storage systems regulated?

In some contexts, for energy storage systems, compliance regulations take the form of a state adopting a code, which then references and requires testing and listing or adherence to a standard. Some cities, counties, and special administrative districts (e.g., school or sewer districts) also adopt locally amended codes for their environments.

What is an energy storage system (ESS)?

Covers an energy storage system (ESS) that is intended to receive and store energy in some form so that the ESS can provide electrical energy to loads or

to the local/area electric power system (EPS) when needed. Electrochemical, chemical, mechanical, and thermal ESS are covered by this Standard.

What is a battery standard?

Covers requirements for battery systems as defined by this standard for use as energy storage for stationary applications such as for PV, wind turbine storage or for UPS, etc. applications.

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