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Requirements for ground distributed energy storage

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Overview

IEC TS 62786-3:2023, which is a Technical Specification, provides principles and technical requirements for interconnection of distributed Battery Energy Storage System (BESS) to the distribution network.What standards are required for energy storage devices?

Coordinated, consistent, interconnection standards, communication standards, and implementation guidelines are required for energy storage devices (ES), power electronics connected distributed energy resources (DER), hybrid generation-storage systems (ES-DER), and plug-in electric vehicles (PEV).

What are the different storage requirements for grid services?

Examples of the different storage requirements for grid services include: Ancillary Services – including load following, operational reserve, frequency regulation, and 15 minutes fast response. Relieving congestion and constraints: short-duration (power application, stability) and long-duration (energy application, relieve thermal loading).

Should energy storage be included in state interconnection standards?

Include energy storage as part of state interconnection standards—The definition of “generating facilities” in interconnection standards often omits mention of energy storage, which can create ambiguity about the ability of a storage system to apply under the rules.

Should energy storage systems be transparent and non-discriminatory?

As energy storage markets grow, transparent and non-discriminatory interconnection standards for storage—whether standalone or BTM energy storage systems paired with DPV (“solar + storage”)—can help ensure a timely, cost-effective, and efficient process for developers, customers, and utilities. Figure 15.

Why are energy storage systems important?

Energy storage systems (storage or ESS) are crucial to enabling the transition to a clean energy economy and a low-carbon grid. Storage is unique from other types of distributed energy resources (DERs) in several respects that present both challenges and opportunities in how storage systems are interconnected and operated.

When do energy storage systems need to be upgraded?

For example, a customer’s service entrance may need to be upgraded to accommodate greater load and export, or the size of a service transformer may need to be upgraded. In addition, there is often ambiguity about when an energy storage system would trigger the need for two sets of processes and utility reviews—one for load and one for generation.

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