SolarTech Power Solutions

Energy Storage System Construction Period Guarantee Plan

Overview

Does the warranty model for energy storage systems keep pace?

Inflexible and complex, the warranty model for energy storage systems has failed to keep pace with rapid market growth, the authors argue. This is an extract of a feature article that originally appeared in Vol.41 of PV Tech Power, Solar Media’s quarterly journal covering the solar and storage industries.

What's new in energy storage safety?

Since the publication of the first Energy Storage Safety Strategic Plan in 2014, there have been introductions of new technologies, new use cases, and new codes, standards, regulations, and testing methods. Additionally, failures in deployed energy storage systems (ESS) have led to new emergency response best practices.

What is a battery energy storage system (BESS) warranty?

As challenging as warranties are for battery energy storage system (BESS) owners and operators, it is possible for there to be more clarity. Look no further than how the automotive industry handles electric vehicle warranties. They are simple and flexible, typically covering time (usually eight years) and mileage (usually 100,000 miles).

When did energy storage go beyond 1GW?

Consequently, in 2020 U.S. installations of advanced energy storage went beyond the 1Gw mark for the first time in history when 1,464MW/3,487MWh of new energy storage (composed almost entirely of lithium-ion battery systems) went online.

Do energy storage products need periodic maintenance?

The requirements for periodic maintenance for energy storage products should be identified by the OEM (IEEE 2010). In settings where predictive analytics maintenance is economical, guidance should also be available from

the manufacturer that identifies methodologies for assessing when a product may be approaching a failure mode.

What is a typical energy storage deployment?

A typical energy storage deployment will consist of multiple project phases, including (1) planning (project initiation, development, and design activities), (2) procurement, (3) construction, (4) acceptance testing (i.e., commissioning), (5) operations and maintenance, and (6) decommissioning.

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