

## Kongres Container

# Energy storage project equipment warranty period



## Overview

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Whether you're a solar farm developer, grid operator, or someone Googling "why does my battery keep sulking?"

", understanding warranty periods is your new superpower. Modern battery warranties come in more flavors than a Baskin-Robbins store: 1. The "Cover Your Assets" Warranty (Literally) ACCURE.

Installing BESSs involves technical and operational risks for utility operators and investors. To mitigate risks, BESS manufacturers may offer warranties for 10 years or more based on performance estimates. However, purchasers of BESSs must choose the level of warranty coverage and pay a premium.

Standard warranties for lithium-ion batteries covering both performance and defects are two years, but extended warranties can be purchased. A warranty beyond 10 years does not make sense because so much of the battery would need to be replaced after year 10. Insurance can also be purchased.

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). In contrast, BESS warranties have extensive restrictions and fine print, sometimes requiring.

LG Electronics U.S.A., Inc. ("LG") warrants that it will repair or replace defective internal parts ("Part[s]") of a qualified LG Energy Storage System (each, a "System") that fail during the warranty period if such parts prove to be defective due to improper materials and / or manufacturing.

Our warranty for the Movable Energy Storage System is designed to provide customers with peace of mind and protection against potential defects. The warranty typically covers the following aspects: Defects in materials and workmanship: We guarantee that the Movable Energy Storage System is free. 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 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).

What are the different types of storage warranty?

In the energy storage sector, there are two main types of warranties: a product warranty, which is a guarantee against defects, and a performance warranty. In this context, we do not focus on the product warranty as much.

Should a 10-year warranty be extended to 15 years?

A 10-year warranty will not have a design target of 10 years because half of the batteries will need to be returned under warranty. Thus, the design target would have to be at least 14 or 15 years. I would not give a 15-year warranty, and I do not think anybody in the space should do so.

Do warranty conditions limit daily charge-discharge cycles?

For instance, most warranty conditions cap daily charge-discharge cycles to one or two, even though significant portions of annual revenue are generated during just a few high-demand days in some markets. As the industry shifts from contracted revenues to higher shares of merchant operation, such limitations become increasingly costly.

Does LG Chem offer an energy throughput warranty?

LG Chem offers an energy throughput warranty, meaning it warrants that the

battery will deliver a certain amount of energy over a 10-year life. The number of times a day the battery is cycled affects the battery's lifespan, making energy throughput a crucial factor.

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