

The life of the battery in solar energy storage power station





Overview

How long do solar batteries last?

The life expectancy of a solar battery depends on several factors—what kind of battery you have, how you use it, where it's stored, and how well it's maintained. While lead-acid batteries may only last a few years, lithium options can easily reach 10 to 15 years or more with proper care.

What is a battery energy storage system?

A battery energy storage system (BESS) is no longer an afterthought or an add-on, but rather an important pillar of any energy strategy. This is especially true for strategies that make use of renewable solar power.

What happens when a solar battery reaches its useful life?

A solar battery reaches its useful life when it fails to meet its nominated percentage of storage capacity eg. 60%. The battery will continue to degrade, and it may be able function at lower percentages, but it is deemed to have reached its useful life. Solar batteries degrade far more, and faster, than solar panels do.

How long does a battery last?

Lead-acid batteries (flooded or sealed): These are the most traditional type and also the shortest-lived, typically lasting 3 to 7 years. They're more affordable upfront but require regular maintenance and don't hold up as well over time. When people talk about battery lifespan, they're often referring to "cycle life."



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