

## SolarTech Power Solutions

# Base station second-life battery price



## Overview

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Costs can refer to battery cells or battery packs. Battery packs include cells, plus electrical connections between the cells, packaging, and the battery management system.

What are second life batteries (SLB)?

The term second life batteries (SLB) refers to electrical vehicle retired batteries that are repurposed and used in second-life applications. Various techniques are implied for screening, repurposing, and accurate state of health estimation to enhance their techno-economic benefits.

What are the cost benefits of second-life batteries?

These economic studies have mostly confirmed the cost benefits of second-life batteries over new batteries, including decrease in LCOE, increased annual revenue, and reduced operating and payback years. However, these results cannot be generalized.

What is a second-life battery used for?

Potential uses for second-life batteries include CBS, EV charging stations, mobile energy storage, streetlamps, uninterruptible power systems, and residential energy storage.

Are Second-Life Electric Vehicle batteries useful for energy storage?

The manuscript reviews the research on economic and environmental benefits of second-life electric vehicle batteries (EVBs) use for energy storage in households, utilities, and EV charging stations.

How much does a second-life battery cost?

The difference in conclusions in the studies reflects different input assumptions. For example, Steckel and colleagues 82 assumed a second-life battery cost including repurposing cost of \$117/kWh while Kamath's team 74 assumed \$65/kWh. For new batteries, Steckel and colleagues 82 assumed \$151/kWh while Kamath and colleagues 74 assumed \$209/kWh.

Are second-life batteries a viable option for energy storage?

The second-life batteries have variable battery SOH and variable PV generation penetrations. There are supporting results about economic revenue from battery operation, hence encouraging consumers to adopt second-life batteries as a viable option for energy storage.

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