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Feasibility analysis of EMS maintenance for communication base stations

Overview

Which ESS is used for load shifting in CBS?

In Case 2 and 3, ESSs with battery packs are deployed in CBS for load shifting. The CBS electricity demand in the peak period is satisfied by the ESS, while in other periods the electricity is supplied directly by the grid. The ESS is charged during periods of low electricity demand.

Is secondary use of EV libs economically feasible?

The secondary use of EV LIBs is still economically feasible, even considering the remanufacturing cost. Most of the LIB cost can be recovered as the ESS for the regulation services, and the net profit rate is around 35 % after 15 years of operation.

Can EV libs be used in ESS systems?

Spent EV LIBs still have 80 % of their nominal capacities, and it can still be used in ESS systems with lower requirements on battery performance . The secondary use of spent LIBs can also relieve the significant pressure on the end-of-life (EoL) management of EVs.

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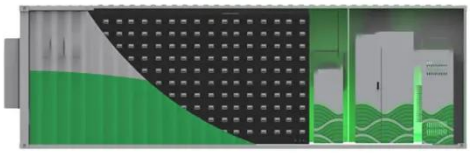

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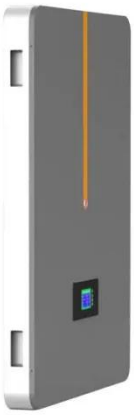

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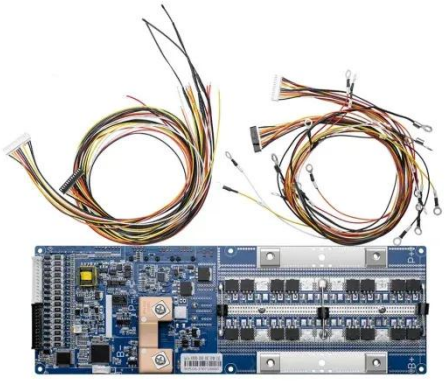

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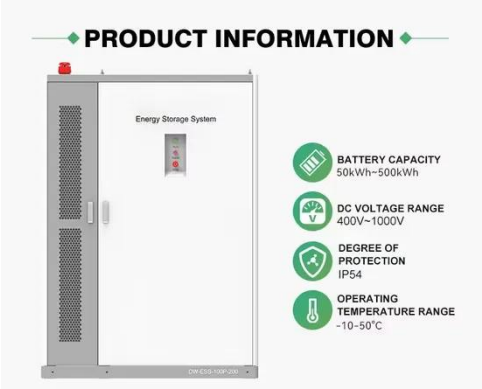

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