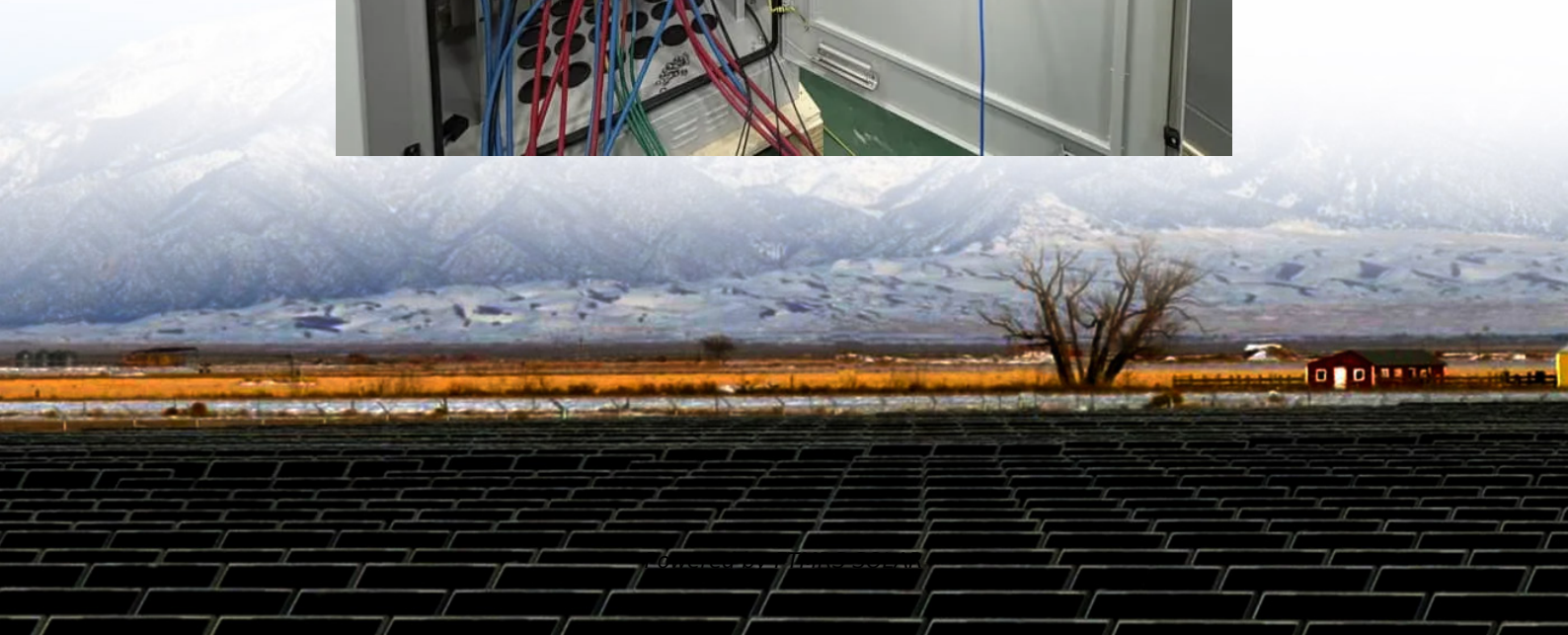


Community-based mobile energy storage container exchange payment methods





Overview

Can a community energy storage system meet EV charging demands?

To this end, an optimization framework that incorporates FCSs and MCSs is proposed to meet the spatiotemporally distributed EV charging demands. A community energy storage system (CESS) is integrated into the system to enhance the flexibility and increase the use of renewable energy in EV charging.

What is a community energy storage system?

Community energy storage systems (CESSs), consisting of shared battery storage units connected to low-voltage transformers that supply multiple homes or small businesses, can support RESs integration and enable flexible energy sharing among prosumers. CESSs are shared and utilized by the agents within a community.

How can community members use the shared energy storage system?

The surplus/shortage energy of community members can be sold to/purchased by the community storage or injected to/absorbed from the local grid. To use the shared energy storage system, community members can lease the capacity of the CSES.

What is community shared energy storage (CSES)?

Community shared energy storage (CSES) is a solution to alleviate the uncertainty of renewable resources by aggregating excess energy during appropriate periods and discharging it when renewable generation is low. CSES involves multiple consumers or producers sharing an energy storage system.



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