

Research station uses Singapore mobile energy storage container for bidirectional charging





Overview

What is a bi-directional charging system?

This shift is made possible by the cutting-edge bi-directional charging technology. Bi-directional charging allows EVs to function as mobile energy storage units. Equipped with this technology, EVs can not only draw power from the grid but also return electricity to it, or supply power to homes during peak demand or in the event of blackouts.

What are the development directions for mobile energy storage technologies?

Development directions in mobile energy storage technologies are envisioned. Carbon neutrality calls for renewable energies, and the efficient use of renewable energies requires energy storage mediums that enable the storage of excess energy and reuse after spatiotemporal reallocation.

Can bi-directional charging be a Mainstream Energy Solution?

Sigenergy is proud to be among the first to successfully implement bi-directional charging in a commercial setting. In partnership with NIO, a leading EV manufacturer in China, Sigenergy has demonstrated the viability of bi-directional charging as a mainstream energy solution.

What are the different types of mobile energy storage technologies?

Demand and types of mobile energy storage technologies (A) Global primary energy consumption including traditional biomass, coal, oil, gas, nuclear, hydropower, wind, solar, biofuels, and other renewables in 2021 (data from Our World in Data 2). (B) Monthly duration of average wind and solar energy in the U.K. from 2018 to 2020.



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