

Energy company uses Kitga photovoltaic containers for bidirectional charging





Overview

Sigenergy is leading the way with innovative bi-directional charging solutions that are transforming how energy is managed and distributed. Do EV charging stations need bidirectional power supplies?

Scenarios that call for bidirectional power supplies in EVs and EV charging stations include: EV supplying power back to the grid or to a microgrid in the home. EV charging station supplying power to an EV either from the grid or from stored energy depending on relative electricity prices.

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.

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.

Can bidirectional charging transform EVs into mobile energy storage units?

According to the document, “bidirectional charging has the potential to transform EVs into mobile energy storage units, unlocking substantial value across the energy ecosystem.” To help people ‘navigate’ the complexities of bidirectional charging, the document includes eight so-called one-pagers, looking at the different applications.



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What is bidirectional charging?

Bidirectional charging--also known as V2G (Vehicle-to-Grid)--is a cutting-edge technology that allows electric vehicles to not only draw power to charge, but also feed energy back into the ...

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