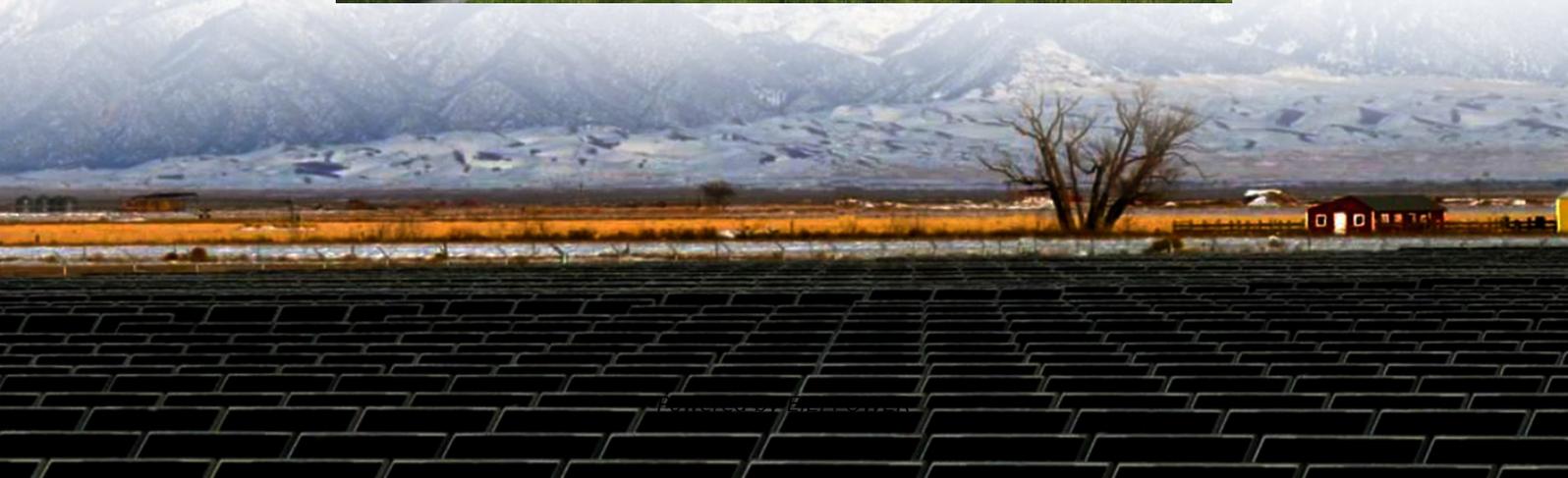
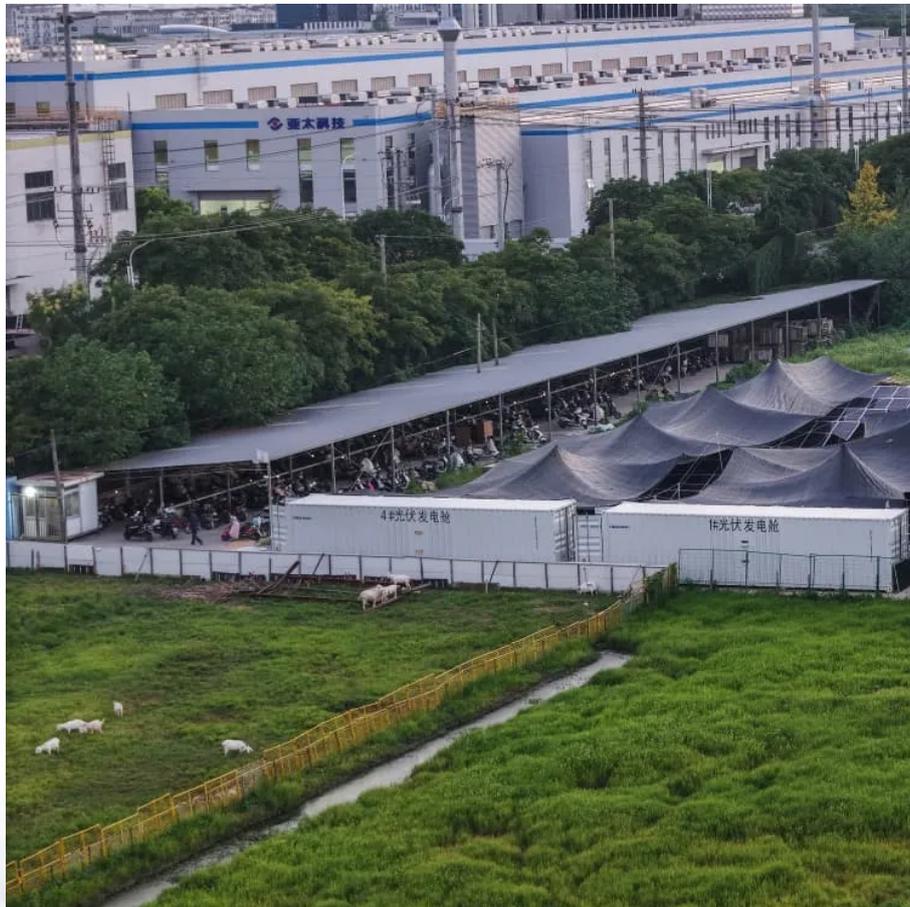


Emergency Command Off-Grid Solar Container Bidirectional Charging





Overview

Can bidirectional electric vehicles be used as mobile battery storage?

Bidirectional electric vehicles (EV) employed as mobile battery storage can add resilience benefits and demand-response capabilities to a site's building infrastructure.

Can bidirectional EVs be used as mobile storage?

In contrast to stationary storage and generation which must stay at a selected site, bidirectional EVs employed as mobile storage can be mobilized to a site prior to planned outages or arrive shortly after an unexpected power outage to supplement local generation or serve as an emergency reserve.

What is a bidirectional EV?

A bidirectional EV can receive energy (charge) from electric vehicle supply equipment (EVSE) and provide energy to an external load (discharge) when it is paired with a similarly capable EVSE.

What is a bidirectional EV battery?

The size of a light-duty EV battery (approximately 15–100 kWh) makes individual bidirectional units ideal for smaller applications like individual buildings, where they can optimize the use of PV and replace or supplement emergency diesel generators. Larger bidirectional EV fleets can be employed for larger applications.



Emergency Command Off-Grid Solar Container Bidirectional Charging



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Bidirectional Charging

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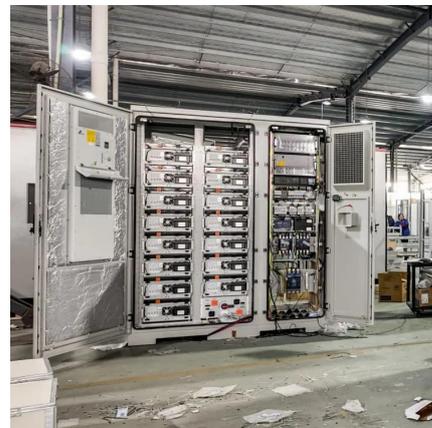


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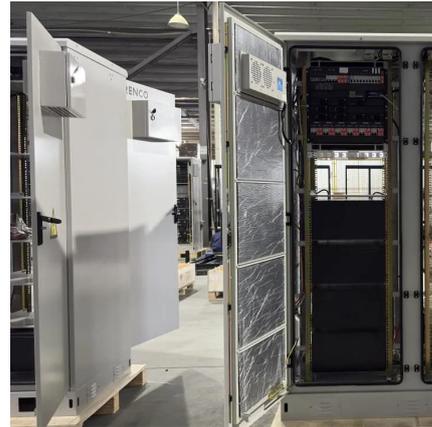
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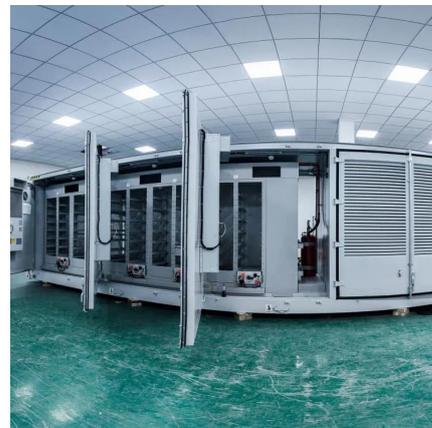


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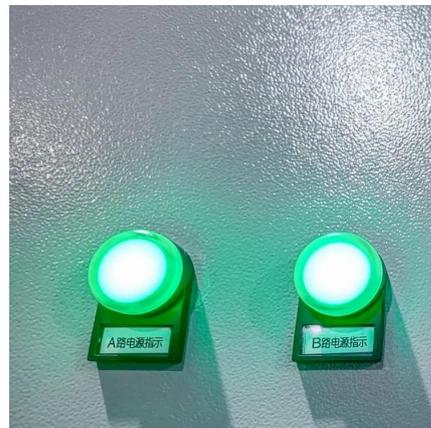


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