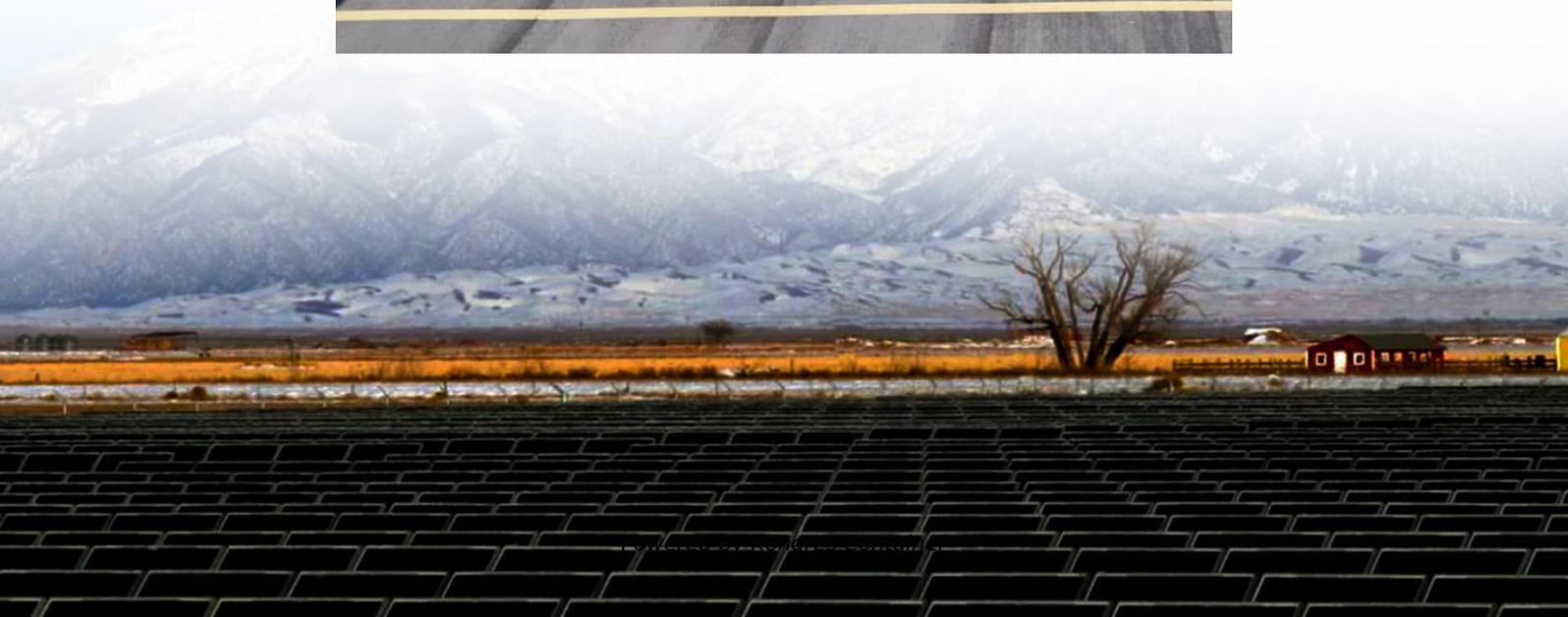
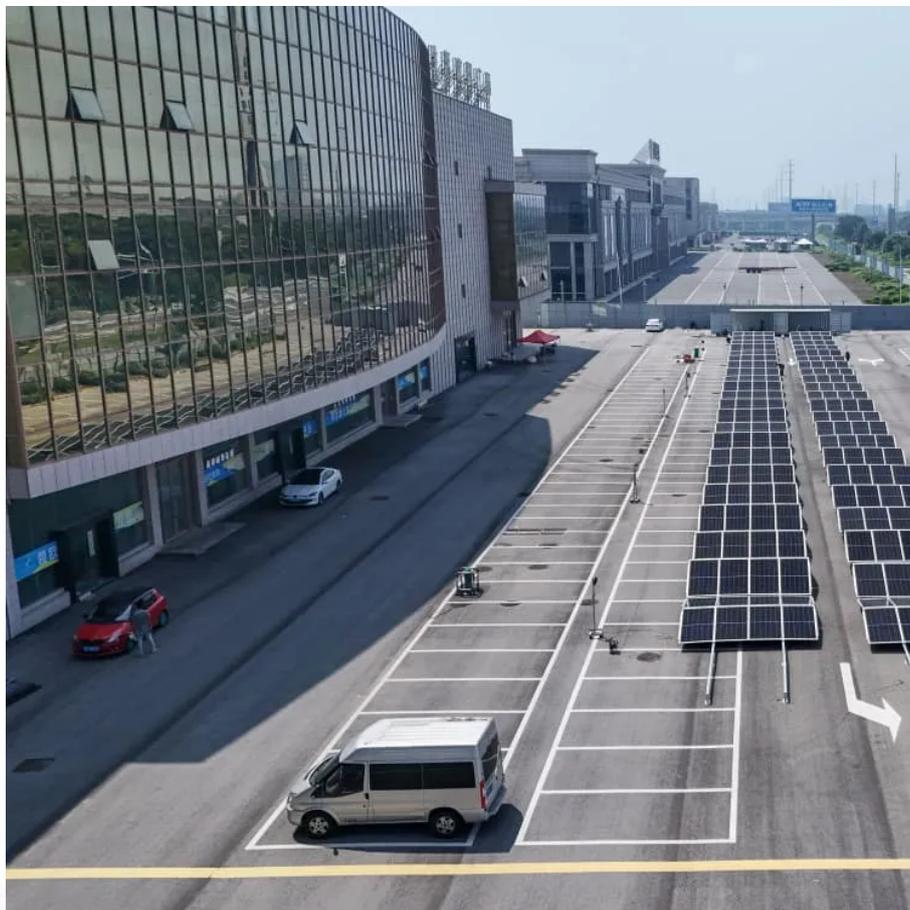


Kongres Container

Distributed energy storage vehicle support



Overview

Is EV charging a distributed energy resource?

Electric Vehicle (EV) charging can be considered a distributed energy resource, as it is like energy efficiency, distributed generation, and storage systems that can be targeted to create value for the grid.

Who are the authors of electric vehicles as distributed energy resources?

Garrett Fitzgerald, Chris Nelder, and James Newcomb are the authors of 'Electric Vehicles as Distributed Energy Resources'. RMI (Rocky Mountain Institute) | 2 Authors.

Can charging be distributed without vehicle-to-grid power flows?

Electric vehicles can still provide a new kind of distributed resource at the grid edge, even without vehicle-to-grid power flows, by flexibly managing charging to meet customer requirements.

How are distributed energy resources changing the electric sector?

Higher penetration of distributed energy resources (“DERs”), including customer-sited solar photovoltaic (“PV”) systems, electricity storage, and electric vehicles, is changing the way we plan and operate the electric distribution system. The requirements and expectations for the electric sector are also undergoing significant change.

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 the difference between stationary and EV power storage?

The primary difference between stationary and EV power storage is that stationary power storage systems exist only to serve functions such as grid support and backup power, whereas for Electric Vehicles (EVs), those functions would be secondary to their primary function as transportation. Stationary storage markets are themselves in a very nascent state, and are beyond the scope of this paper.

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