

Bidirectional charging of mobile energy storage containers at drilling sites

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While challenges remain, ongoing advancements in technology, supportive regulatory frameworks, and increased consumer awareness are paving the way for the ...

This paper introduces a novel testing environment that integrates unidirectional and bidirectional charging infrastructures into an existing hybrid energy storage system.

This study evaluates the long-term environmental effects of a widespread deployment of bidirectional charging in the European energy supply sector using a prospective life cycle ...

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

The technology enables charging the batteries of electric vehicles and transferring the stored energy back to the stationary storage system in the building or to the grid when ...

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Given the right energy management solutions, bidirectional charging, or V2X, could add significant storage capacity for these systems. In addition, pairing a V2X system with ...

Through a comprehensive literature research and in-depth interviews with 16 V2G experts, we identify the current state, research gaps, and insights related to V2G. In particular, ...

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Without extending the waiver, New York is in jeopardy of stunting the development of the V2X industry as the bidirectional charging industry is progressing slowly on the path to UL 1741-SB ...

This paper focuses on the challenge to develop coordination between an electric vehicle (EV) charger, energy storage system (ESS), and smart charging/discharging strategy in a low ...

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