



MODERNIZATION SOLAR

# **Bidirectional charging of energy storage containers at Oslo power station**





## Overview

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Can bidirectional charging overwhelm the grid?

If too much energy flows back at the wrong time, it can overwhelm the grid — similar to what happens when there's an excess of solar power. That's how bidirectional charging may introduce the need for grid expansion. To avoid this, V2G needs clear guidelines on when energy can and cannot be sent back to the grid.

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.

What is vehicle-to-grid bidirectional charging?

Grid integration and expansion Vehicle-to-grid bidirectional charging allows electric vehicles to send energy back to the power grid when needed, helping balance supply and demand. This flexibility can be valuable, but it also needs careful management.



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### The Future of EV Charging: How Sigenergy's Bi-directional Charging

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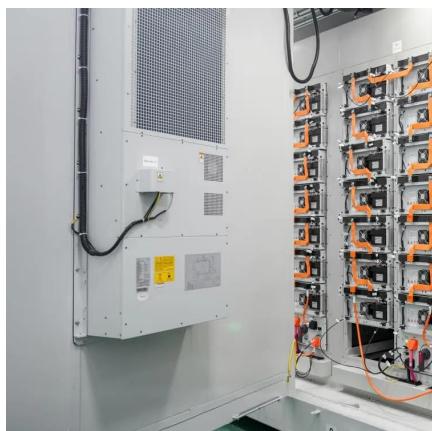
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## **Adaptive optimization algorithms for scheduling multiple battery energy**

The rapid proliferation of renewable energy sources has compounded the complexity of power grid management, particularly in scheduling multiple Battery Energy Storage Systems (BESS).



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