

# Nordic research station uses photovoltaic containers for bidirectional charging





## Overview

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Does bidirectional storage reduce energy supply costs in Europe?

The bidirectional development of the existing storage capacity in electric vehicles for the energy system reduces the energy supply costs in Europe compared to a scenario without bidirectional electric vehicles. The use as daily storage improves the system integration of renewable energies and PV energy in particular.

What is bidirectional charging?

Bidirectional charging describes the technology of not only charging an electric vehicle from the grid, but also feeding electricity back into the grid or to consumers. This is often referred to as Vehicle-2-Grid (V2G) or Vehicle-2-Home (V2H).

Can bidirectional charging save Europe's energy & mobility sectors?

Bidirectional charging technology has the potential to save billions of euros annually by optimizing electricity usage and reducing system costs. A recent study by Transport & Environment (T&E) reveals that this innovative technology could transform Europe's energy and mobility sectors.

Why is bidirectional charging important for electric vehicles?

The flexibility of electric vehicles can be used by means of bidirectional charging in numerous applications to promote self-sufficiency, save costs and support the energy sector via grid and system services.



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