

Cost of bidirectional charging for folding containers





Overview

Does bidirectional charging make sense?

In addition to the stakeholder perspective, bidirectional charging also makes sense and is cost-optimized from a system perspective. 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.

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.

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.

Could bidirectional battery storage re-use a large-scale battery storage capacity?

The additional use of this storage capacity for bidirectional charging could reduce the need for large-scale battery storage beyond the scope of the Electricity Network Development Plan (NEP) and the associated costs and resource consumption.



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