



BUHLE POWER

Price of bidirectional charging for Russian photovoltaic containers





Overview

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.

How much does bidirectional charging cost?

These extensive ranges suggest several important influencing factors. For bidirectional charging, the cost saving range is significantly larger, i.e. today from 160 €/EVa to 1300 €/EVa and in 2030 from 320 €/EVa to 2780 €/EVa. Bidirectional charging is even more sensitive to the investigated influencing factors.

Is bidirectional charging available in Germany in 2021?

Even though bidirectional charging was not available for private customers in Germany in 2021, prices of 2021 are a good representation of the last couple of years, which is why this year is selected as a base year. As a vital sensitivity, 2022 is considered as input year because in 2022, extreme prices occurred in the spot markets.

Will bidirectional charging be profitable in 2030?

Bidirectional charging, today profitable only for the combined PV self-consumption and spot market trading use case, becomes universally profitable in 2030, with electricity cost savings ranging from 310 €/EVa to 2780 €/EVa.



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[How Does Russia Use Solar Photovoltaic Containers?](#)

Mar 28, 2025 · Given the fact that Russia is looking for alternative sources of clean energy, solar photovoltaic containers are a practical and adaptive solution. They are mobile facilities which ...



[Dynamic electricity pricing vs. bidirectional charging - the ...](#)

Aug 22, 2024 · The paper shows the impact of dynamic electricity tariffs and bidirectional charging on grids. Up to 30 % of optimized vehicles are not critical for the grids.



A Grid-Tied Photovoltaic-Battery System for Bidirectional ...

May 15, 2025 · Electric vehicle (EV) charging infrastructure has led to the advancement of grid-tied photovoltaic (PV) battery energy systems (BES) that support bidirectional energy flow. ...



Prospects of electric vehicle V2G multi-use: Profitability and ...

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Study: Bidirectional Charging Saves Billions Annually

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...



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