

Off grid battery system cost vs benefit calculation in Germany

Is German battery energy storage a key technology for grid integration?

German battery energy storage: a key technology for grid integration? While Germany's new coalition government has made the right noises about energy storage in its written agreement, the lack of concrete reform and legal certainty in the terms used is not enough for investors to bank on.

Should battery storage operators pay avoided grid fees?

In December 2020, the Federal Network Agency obliged the grid operator to pay avoided grid fees to the battery storage system operator. Also in the next instance, in February 2022, the Düsseldorf Higher Regional Court ruled in favor of the storage operator.

How do battery storage systems contribute to grid optimisation?

Battery storage systems as well as less widespread storage systems such as compressed air energy storage show increasingly their contribution to flexibility in the form of grid services and the optimisation of transmission and distribution grids.

What does the BGH decision mean for the battery storage industry?

The decision of the BGH is positive for the storage industry in two respects: Firstly, it finally provides the necessary legal and planning certainty for the operators of battery storage systems. Secondly, the BGH also confirmed that battery storage systems are to be treated as energy producers with regard to their feed-in function.

Are grid batteries becoming more popular in Germany?

In Germany, as a major market, grid batteries and - even faster - home batteries are quickly evolving (Figure 14). Please note: figures for 2019 and 2020 are projections with do not reflect latest developments.

Can battery storage systems be a grid-serving system?

The courts recognized the complex and grid-serving role of battery storage systems. However, the decision does not have any impact on the legislator's decision to abolish the claim to avoided grid fees for new battery storage systems that were commissioned since 1 January 2023.

Base Year: The Base Year cost estimate is taken from (Feldman et al., 2021) and is currently in 2019\$. Within the ATB Data spreadsheet, costs are separated into energy and power cost estimates, which allows capital costs to be constructed ...

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