

How to allocate cross zonal capacity?

This can be done through the allocation of cross-zonal capacity for the exchange of balancing capacity or for sharing of reserves. There are three different processes for allocating cross-zonal capacity: allocation process based on economic efficiency analysis (Article 42).

What is a two-tier energy storage capacity optimization allocation model?

A two-tier energy storage capacity optimization allocation model nested in multiple time scales is established. The model mainly utilizes the advantages of power regulation speed and capacity differentiation between hydropower and BESS, and fully exploits the ability of hydropower to flexibly regulate fluctuations.

How do TSOs allocate cross-zonal capacity?

There are three different processes for allocating cross-zonal capacity: allocation process based on economic efficiency analysis (Article 42). If TSOs opt for applying one of these processes, they need to further specify the relevant bidding zone borders, the timeframe and the duration of the application of the respective methodology.

What is the allocation process?

The allocation process is based on a comparison of forecasted market values of cross-zonal capacity for the exchange of energy, balancing capacity or sharing of reserves. Its methodology describes the rules for allocating cross-zonal capacity across timeframes.

What is the legal basis for cross-zonal capacity allocation?

Legal basis: Article 38 (1) of the EB Regulation
Responsibility: two or more TSOs are allowed to apply the methodology for cross-zonal capacity allocation process for the exchange of balancing capacity or sharing of reserves.

What is nested energy storage capacity optimization model?

To this end, a multi-timescale nested energy storage capacity optimization model for multi-energy supplemental renewable energy system with pumped storage hydro plant based on a three-battery group control operation strategy is proposed.

Abstract The rational allocation of microgrids' wind, solar, and storage capacity is essential for new energy utilization in regional power grids. This paper uses game theory to construct ...

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