

Energy storage for grid stability luxembourg

In their article “The Value of Coordination in Multi-Market Bidding of Grid Energy Storage”, forthcoming in Operations Research, Prof. Nils Löhndorf (LCL) and Prof. David Wozabal (TU München) consider the problem of optimal storage operation in an electricity market with a day-ahead auction and a continuous intraday market; which is the standard market design in Europe.

In a case study with real-world data, the authors find that coordination is most valuable for large storage assets, like pumped-hydro storage. For small assets, like battery storage, participation in the day-ahead auction can be viewed as optional and focusing on intraday trading alone is likely the best strategy.

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