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How day ahead price curve shapes differ and what this says on flexibilities in the market

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Extended Abstract

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Abstract Summary

The variable renewable generation of wind and solar results in a high demand of flexible generation, demand and storages. The combination of the variability and the different marginal cost of these technologies and conventional generators results in spaces for strategic bidding. This work presents a novel analysis method based on cluster and decision tree analysis that can analyse the bidding behavior of flexibilities in specific bidding price range for day ahead markets. It is able to extract unusual events and parameters that has an influence on such behavior.

Presenting Author Biography

Henrik Mantke holds a master's degree in Energy Sciences from the University of Duisburg-Essen and works as a research entrepreneur at IZES gGmbH. His research focuses on energy system analysis; he specializes in modeling electricity markets and communities that rely on renewable energy.