

Asset aggregation for real-time grid balancing - Peninta

Publieke samenvatting / Public summary

Aanleiding

Flexibility in the electricity system is required in real time, from second to second. Currently this is mainly done with fossil fuel plants, this study focusses on the use of various energy storage assets as an alternative to quickly respond to grid frequency fluctuations.

Doelstelling

The short-term goal of the project is to successfully validate the technical characteristics of an aggregated pool of energy storage assets for demand side flexibility. We want to show that a pool of batteries, flexible assets such as thermal energy storage and household appliances is a good resource for real-time grid balancing

Korte omschrijving

Flexibility in the electricity system is required in real time, from second to second. This study is to find an alternative to quickly respond to grid frequency fluctuations. Therefore, the technical characteristics of an aggregated pool of energy storage assets for demand side flexibility will be validated. The result is a pool of flexible assets based on an innovative platform for the most demanding of flexibility services for the electricity grid.

Resultaat

The result is a pool of flexible assets based on an innovative platform for the most demanding of flexibility services for the electricity grid. Based on this success it will be possible to further

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Algemene informatie / General information

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Publicaties en materialen / Publications and attachments

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commercialize this low-carbon technology in the Netherlands and abroad.

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