

Smart Grids Talks on Research and Teaching — Recent trends and future needs

Poster session at the E.S.T. conference

20 May 2015, Karlsruhe







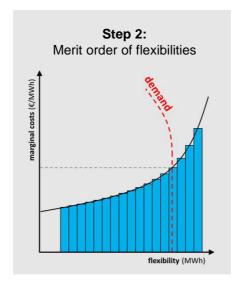
ÖkoFlex

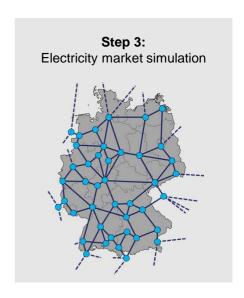
Flexibility as an economic commodity in the intelligent energy system for the efficient integration of renewable energies

Scientific problem:

- Fluctuations in the electricity generation will increase in future and need to be compensated by the flexibility of other system components
- The various flexibility options have very different deployment characteristics which have not been sufficiently investigated so far
- Economic characteristics such as provision and retrieval costs were also not quantified systematically for most options







Expected research results:

- · Statements about which flexibility can be used in certain market conditions
- · Collecting insights into the effects of flexibilities on electricity market prices
- Assessment of flexibilities that can generate sufficient margins to cover their fixed costs

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