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ForskEL contributed with DKK 4.498.000

Research Institution:

Center for Energy Informatics, Syddansk
Universitet

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Other partners:

Insero

Green Tech Center

Aura Energi

FlexReStore: Flexible Retail Stores

The Danish retail sector can become a key player in the future Smart Grid by becoming flexible consumers. The focus of the FlexReStore project is to seek the potential and design solutions for implementing Smart Grid technology in the retail sector. By doing so the retail stores contribute to the stability of the electrical grid as more and more renewable energy is introduced into the system.

The project will study motivational factors among stores and costumers, map the potential for flexibility among Danish stores, evolve retail store designs present in Denmark today to new designs that include flexible consumption and develop an ICT-tool for flexible control of retail stores.

The Danish retail sector is a major consumer of electricity and is therefore an important actor to consider in the green transition of the Danish energy system. To better utilize the increasing fluctuating electricity generation in Denmark requires means to promote and provide flexible consumption. In the retail sector, projects have so far considered flexible consumption in connection with refrigeration, however, the remaining loads totaling up to more than 85% percent have not been considered.

The project will provide recommendations for motivating the Danish retail sector to be part of the smart grid and develop ICT-tools to support this. The project will also establish an energy guild for the retail sector that can be an important part of future smart grid products and services.

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