Use Case 2
FleX

energy data-X

CHALLENGES

Growing need for flexibility in the climate neutrality network

- Fewer and fewer centralized conventional large-scale power plants are available for the provision of flexibility in the power grids.

- At the same time, the expansion of renewable energies is increasing the number of decentralized, controllable generation units (e.g. photovoltaic and wind power plants) and the number of decentralized, controllable consumption units (e.g. electric vehicles, storage systems, heat pumps).

- However, there is currently no cross-sectoral and comprehensive data provision of these units on the provision of flexibility in the climate neutrality network.

GOALS

Unleashing of controllable units for cross-sector flexibility

- Simple and secure data exchange between controllable units (e.g. charging stations) and the energy data-X data ecosystem via Schneider Electric's energy management system

- Development of uniform and common standards for cross-company and cross-sector data exchange

- Creation of a concept for the integration of other players and assets (e.g. aggregators, fleet operators of commercial vehicles and passenger cars)

ADDED VALUE

The "FleX" use case ...

- allows aggregators to offer decentralized flexibility via innovative products and services

- provides balancing group managers and grid operators with a technical basis for accessing decentralised flexibility

- enables cost-effective, scalable machine-to-machine data exchange

- creates a scalable solution for the integration of a very large and constantly growing number of prosumers through data space technologies

- enables prosumers to provide their energy data securely and confidently by participating in the data ecosystem and to use innovative products and services of the data ecosystem

PARTNERS

The use case is led by Schneider Electric and supported by ARGE NETZ, BAM, BMW Group, Fraunhofer, MVV, Ostrom, TenneT, VSE and Westnetz

PLANNED ROLL-OUT

Transfer to operation and scaling with additional participants from October 2026

WOULD YOU LIKE TO LEARN MORE OR GET INVOLVED? GET IN TOUCH!

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energydata-x.eu ↗

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