

SYNERGIES Consortium

The consortium is composed of **22** partners from **11** countries with multi-domain expertise and interdisciplinary knowledge in:

- Energy systems & Services
- Big Data Management, Interoperability
- Security & Analytics
- Business Innovation & Energy Markets
- Social Sciences and Humanities, with focus on citizen engagement and legal issues



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SYNERGIES

Shaping consumer-inclusive data pathways towards the eNERgy transition, through a reference Energy data Space implementation

The Challenge

The **energy economy** is facing a profound **transition** from a centralised, fossil-fuel-based system to an **energy efficient, renewable-based and more decentralised system**.

Therefore, an integrated ecosystem of data value chains is needed to **enable data-driven optimization and coordination** between the energy sector stakeholders.

...and the SYNERGIES solution

SYNERGIES focuses on cultivating a **data sharing ecosystem**, involving the energy data value chain stakeholders in data exchanges for **safeguarding the green and resilient operation of the energy system**. The SYNERGIES Energy Data Space aspires to unleash the **data-driven innovation and sharing potential of the energy sector** by leveraging on data generated across the edges of the system to give birth to a wealth of **data (intelligence)-driven services** that value demand flexibility and empower prosumers to support the **secure operation of energy networks**, while at the same time realizing sustainable and self-sufficient Local Energy Communities.



KEY FEATURES



A reference implementation for an Energy Data Space building on Data Interoperability & Governance, Data Security & Sovereignty, Data Sharing



A set of Energy-as-a-Service Applications for consumers, local communities and network operators



4 data-driven Digital Twin solutions deployed at different levels of the energy network



KEY FEATURES



An Open and Inclusive Energy Services Marketplace as point of entry for advanced energy solutions



AI Analytics On-Demand Services for the extraction of data-driven intelligence



Novel business models for the transparent engagement of prosumers in the energy market

