



The common European energy data space

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EU Action plan on digitalising the energy system

- Establish the **Smart Energy Expert Group** to support the work on the Common European Energy Data Space (ongoing)
- Creating a **digital twin of the electricity grid** with TSOs and DSOs
 - TwinEU project : Supporting the development of a digital twin to improve management, operations and resilience of the EU Electricity System in support to REPowerEU (ongoing)
 - ENTSO-E and EU DSO Entity Task Force (upcoming)
- Supporting National Regulatory Authorities and ACER in **defining common smart grid indicators** so NRAs can monitor smart and digital investments in the electricity grid (ongoing)

EU Action plan for Grids

- Improve long-term grid planning for higher share of renewables and increased electrification
- Long-term visibility of network needs, in particular at DSO level
- Coordination in network planning and data exchange between TSOs, DSOs, generators, aggregators, recharging point operators

*“Action 2: ENTSO-E to enhance **top-down planning** by integrating the identification of offshore and onshore system needs [...]”*

*“Action 3: EU DSO Entity to support DSO grid planning **by mapping** the existence and characteristics of distribution development plans”*

EMD Directive (EU) 2019/944

- Implementing regulation (EU) 2023/1162 on interoperability requirements and transparent procedures for access to metering and consumption data (completed)
- Implementing regulation on customer switching (ongoing)
- Implementing regulation on demand response (ongoing)
- Revision of EMD Directive (ongoing)

Network code on demand response

Process:

- public consultation finished
- draft to be submitted to ACER

Likely to put in place:

- Compliance requirements for participation in energy markets
- Data exchange interfaces
- Interoperability requirements
- Enforcement/monitoring mechanism

EU energy data space – high level use cases

- **‘Flexibility in energy systems’** – aims to further develop and roll out flexibility products for the energy markets, including demand response services for the integration of renewable energy sources and to limit grid congestion;
- **‘Smart and bidirectional EV charging’** – refers to integrating smart EV charging into power grids and promoting bidirectional vehicle-to-grid (V2G) services;
- **‘Smart and energy-efficient buildings’** – develops mechanisms for capitalising on data from smart buildings for promoting and financing energy-efficient building renovations.

Background documents

- The [EnTEC study](#) on the energy data space
- The [ETIP SNET paper](#) on the energy data space
- Ongoing work under BRIDGE, [WG on Data](#)

Thank you



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