

# Energy Data Spaces Cluster Meeting

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## DSO Entity perspective

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# Agenda

1. EU DSO Entity introduction
2. DSO Involvement
3. Recommendations
4. Examples

# DSO Entity: historic opportunity to generate a strong voice for DSOs in the EU

An EU association legally mandated by EU Regulation 2019/943



“ Art. 52.1: Distribution system operators shall *cooperate at Union level through the EU DSO Entity*, in order to promote the *completion and functioning of the internal market for electricity*, and to promote optimal management and a coordinated operation of distribution and transmission systems. ”

A body of cooperation and expertise between all DSO in the EU

The background of this section is a map of Europe with a glowing, interconnected network of lines, representing the electricity grid.

900+ DSOs  
connecting  
250 million  
customers in  
the EU

# EU Regulation 2019/943 (Art. 55) gives DSO Entity a clear mandate



## Network Codes & Guidelines

Participates in drafting of Network Codes and Guidelines relevant for DSO grids

- **IR Data Interoperability ((EU) 1162/2023 JWG)**
- **Cybersecurity**
- **NC Demand-side Flexibility**
- **Review of existing network codes**



## DSO/TSO cooperation

Promotes optimal and coordinated planning and operation of DSO/TSO networks

- **MoU** with ENTSO-E (DSO-TSO work plan)
- Cooperation on **Network Codes**
- Joint initiative on **Vision 2050**



## Sharing best practice

Expert Groups and forum provide expertise and enable exchange of views

- **Various forms of knowledge sharing** with DSO Entity's members
- Via **project teams** (e.g. events, expert tables)
- **DSO radar reports**

## 2. DSO Involvement





## 2. DSO Involvement

- The European household consumers and the small and medium size customers (Electricity & Gas) are connected to the DSO grids.
- DSOs are responsible for the correctness of the data of millions of customers connected to their grids.
- DSOs have always handled consumption data for billing purpose. Also, the smart meters for households & SME (Electricity and Gas) are connected to the DSO grids.
- The energy transition takes (mainly) place decentralised.
- On a European level, DSOs and TSOs work together in a Joint Working Group to assist the Commission in developing Data Interoperability Implementing Regulations ((EU) 1162/2023).



## 3. Recommendations





### 3. DSO Entity Recommendations

#### European Energy Data Space recommendations

- Always keep in mind: **What's in it for the customer?**
  - Main driver: access to more service providers.
- Step one: **arrange the governance.**
  - Trust between data providers and customers is essential.
  - Open for all stakeholders. Cooperation between all market parties, DSOs, TSOs and also new stakeholders (housing cooperations, aggregators, EV charging operators, etc.).
  - Data management is a MS responsibility, work together not against each other.
  - To avoid a vendor and technology lock-in, the governance of the Energy Data Space must be in the regulated domain.
  - It is more than an IT system.



A stylized silhouette of a wind turbine is positioned in the top-left corner of the slide, set against a background of a blue sky and a brownish-orange horizon.

# 3. DSO Entity Recommendations

## European Energy Data Space recommendations

- Technology:
  - Not one big centralized European database. Make the distributed data sources accessible through a portal & API's. Existing Data Spaces should be linked and leveraged.
  - Easily accessible (use standards and open-source software where possible).
  - Use the highest available security standard (trust).
  - Use generic building blocks in the use cases:
    - Identification Authentication Authorisation (eIDAS) Based on European standards.
    - User consent (IR Metering & consumption data (EU) 1162/2023).
    - Access to connection data (connection master-data).

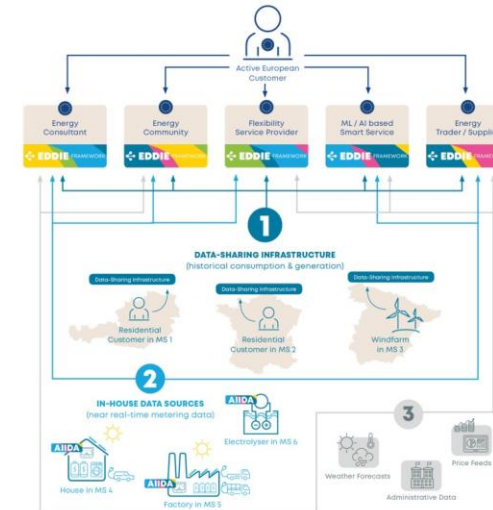
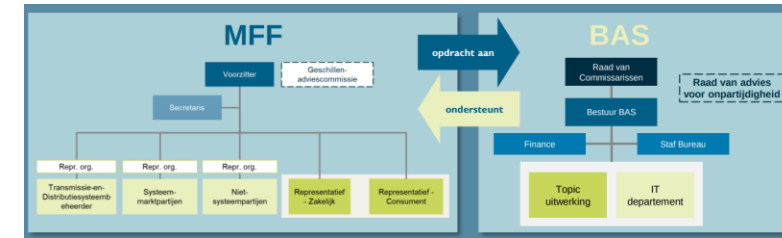
## 4. Examples



### 3. DSO Entity Examples

#### European Energy Data Space examples

- Governance:
  - Spain: Datadis (cooperation between all (> 300) DSOs)
  - Austria: EDA (117 DSOs + 1 TSO, implemented in regulation)
  - NL MFF-BAS (cooperation between regulated and non-regulated external stakeholder)
- Technology:
  - Project EDDIE - **European Distributed Data Infrastructure for Energy**.
  - Denmark: SMILE (standardization and integration of different data sources).



**Thank you for  
your attention**

