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27th OSCE Economic and Environmental Forum

Impact of digital economy in the area of energy co-operation and sustainable economic growth

Vienna, 28 January 2019
Digitalisation as a Part of Energy Market Transition

The 5 „D”s Model

- Decarbonisation
- Democratisation
- Digitisation/Digitalisation
- Diversification
- Disruption

Our understanding of possible implications

- Increased energy efficiency of energy users and grid companies
- Deployment of carbon-free technologies (RES)

- More active role of customers
- Structural changes (new grid user categories - e-mobility, smart cities, batteries, DSM)

- Innovative streams support (local start-ups, Hackathon)

- Deployment of new technologies
- Appearance of energy service companies (ESCOs)

- More production units at the DSO level
- Greater participation of prosumers

Success Stories

Geoportal

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E-application for grid connection
Role of Digitalisation in the Energy Infrastructure Development

Modernisation of existing infrastructure through
• widespread integration of intelligent (smart) elements = smart grid;
• utilising IoT, 5G networks, Big Data;
• implementing smart meters (demand side management);
• smart charging and e-mobility;
• better integration of variable renewables;
• small scale distributed energy resources.

Creating IT infrastructure:
• Sufficient and efficient data centres and network services.
• IT systems and solutions allowing effective and reliable functioning of smart grids, and allowing fast collection and assessment of data.
• SCADA systems are currently used on the HV, MV and LV levels with automatic detection of grid faults.
• Integration of IMS and SCADA is planned in the future.

Thank you for attention!