Organization for Security and Co-operation in Europe
Secretariat

EEF.NGO/1/19
28 January 2019

ENGLISH only

Conference Services

DISCLAIMER

The OSCE Secretariat bears no responsibility for the content of this document and circulates it without altering its content. The distribution by OSCE Conference Services of this document is without prejudice to OSCE decisions, as set out in documents agreed by OSCE participating States.

Mr. Thomas Sipos, Head of Regulatory Affairs, Energy Distributor for Western Slovakia

EEF.NGO/1/19
28 January 2019

ENGLISH only

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

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

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

General Overview

Company data[1]

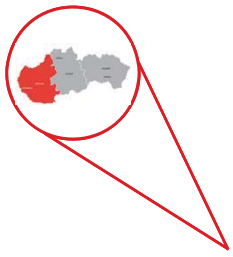
- Ownership: 100% ZSE (parent company)[2]
- Number of employees: 1292

Financial data[1]

- Grid investments: € 73 mil.
- EBITDA: € 175 mil.

Technical data[1]

- Distributed volume: 9,7 TWh
- Total number of consumers: 1,13 mil.
- Number of active supplies: 31



[1] Data for 2017
[2] ZSE: 51% state ownership, 49% E. ON

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

Digitalisation as a Part of Energy Market Transition

The 5 „D“s Model	Our understanding of possible implications
Decarbonisation	• Increased energy efficiency of energy users and grid companies • Deployment of carbon-free technologies (RES)
Democratisation	• More active role of customers • Structural changes (new grid user categories - e-mobility, smart cities, batteries, DSM)
Digitisation/ Digitalisation	• More digital platforms (B2B, B2M, B2C) – grid digitalisation, including smart meters • Innovative streams support (local start-ups, Hackathon)
Diversification	• Deployment of new technologies • Appearance of energy service companies (ESCOs)
Disruption	• More production units at the DSO level • Greater participation of prosumers

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

Success Stories

Geoportal

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ | Distribučný portál

staffino

acon

STARTUP AWARDS

E-application for grid connection

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

Role of Digitalisation in the Energy Infrastructure Development

Modernisation of existing infrastrucutre 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.

ZÁPADOSLOVENSKÁ DISTRIBUČNÁ

Thank you for attention!