ACON
Brussels, 27\textsuperscript{th} March, 2019
The ACON (Again Connected Networks) Smart Grids Project of Common Interest refers to the effort that will deepen and facilitate the cross-border cooperation between the Czech Republic and the Slovak Republic at the Distribution system operator (DSO) level.

The project promoters are the Slovak DSO E.ON Distribuce and DSO Západoslovenská distribučná. However, the project is supported also by the relevant TSOs; indeed by ČEPS in the Czech republic and Slovenská elektrizačná prenosová sústava in Slovakia.
The main objective of the ACON SG project is to improve the existing power distribution grid primarily in the border areas of both countries concerned, but the project activities will also impact other parts of project promoters’ distribution areas.

This will create greater capacity for the development and connection of distributed electricity production and adequate space for possible connection of new distribution grid users in the region.

Moreover, the distribution grid will be modernized through implementation of smart elements and new IT framework in order to create the “smart grid” energy network within the project impact area.
All mentioned goals will be fulfilled primarily through modernization and reinforcement of the existing 110 kV as well as the 22 kV voltage level interconnections.

Medium voltage level interconnection has a supportive effect on the security of supply of the adjacent regions in the border areas. This is important particularly during outage incidents on the infrastructure of the transmission level.

The base of the project will be built on the historical interconnection and cooperation between both countries.
The map on the right indicates the Project impact area of the Czech Republic (E.ON distribuce, a.s.) and impact area of the Slovak Republic (Západoslovenská distribučná, a.s.) in Central and Eastern Europe.

**Czech basic information (2018)**
- The number of customers: 1,528,249
- Electricity consumption: 13.5 TWh/year

**Slovak basic information (2017)**
- The number of customers: 198,700
- Electricity consumption: 1.7 TWh/year
The project consists of 6 major activities:

1. CROSS-BORDER INTERCONNECTION IMPROVEMENT
2. MANAGEMENT OF DISTRIBUTION GRID IN NEW CONDITIONS
3. DISTRIBUTION GRID COMMUNICATION ELEMENTS
4. SMART GRIDS IT SOLUTIONS
5. COMMUNICATION AND DISSEMINATION
6. ACTION MANAGEMENT
The project realization consists of several sub-activities, that aim to implement smart elements into the current distribution grid, such as:

**Construction and improvement of existing distribution grid backbone** leading to increased reliability of electricity supply and more flexible connection of additional points of delivery.

**Deployment of technologies improving the reliability** of electricity supply, leading to increased added value of applied equipment.

**Applying advanced communication and diagnostic methods** with the aim to increase the convenience of customers receiving energy services.
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PROJECT BENEFITS

LOCAL
Better quality of electricity supply, potential for new renewable energy connections, improvement of competitiveness, network connectivity for all users, long-term reduction of negative environmental impact.

GLOBAL
New experiences in the field in area of CEE region, better energy stability, security of supply, wider environmental impacts, intensification of international cooperation, strengthening of physical interconnection between the Slovak and Czech republic.
ACON PROJECT CEF FUNDING

23 JANUARY 2018
CONCERNS CEF CONFIRMED FINANCIAL AID FOR WORK OF ACON SMART GRID PROJECT.

RECOMMENDED CEF FUNDING (2018-2 CEF Energy call)
EUR 182,5 mil.

RECOMMENDED FUNDING RATE 50 %
ACON SG CZ/SK
PROJECT OF COMMON INTEREST

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