

Danube InGrid

Candidate Project of Common Interest

HU | SK

General information

The purpose of Danube InGrid Project is to strengthen interaction and integration between Slovak and Hungarian electricity markets. The Project will adopt smart grid technologies both internally and on cross border level for the evolvement of modern energy infrastructure. It will efficiently integrate the behaviour and actions of all market users connected to the electricity network, mainly consumers, prosumers, generators with the goal of integration of large amounts of electricity from renewable and/or distributed energy sources.



Project benefits

The main benefit is to provide better and more economically efficient delivery of services for the strategic industrial areas and final consumers of both countries. The Project will improve quality of electricity supply, security of supply, connection of new renewable energy sources, network connectivity for all users and reduction of negative environmental impact.

Project impacts

The Danube InGrid Project is a Candidate Project of Common Interest of the European Commission in smart grid category. The aim of the cooperation between **Západoslovenská distribučná, a.s. (ZSD, Slovak DSO)**, **Východoslovenská distribučná, a.s. (VSD, Slovak DSO)**, **Slovenská elektrizačná prenosová sústava, a. s. (SEPS, Slovak TSO)**, **Elmű Hálózati Kft. (Elmű, Hungarian DSO)**, **Émász Hálózati Kft. (Émász, Hungarian DSO)**, and **E.ON Észak-dunántúli Áramhálózati Zrt. (EED, Hungarian DSO)** with the support of **Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zrt. (MAVIR, Hungarian TSO)** is to efficiently integrate smart grids

across borders of two EU members states and contributes to the upgrade of EU electricity networks and connect them (physically / digitally); in particular to integrate and increase the penetration of renewable energy in the area. The environmental improvement that arise from the Project is an integral part of the project.

Project Streams

The Danube InGrid project contains several streams of smart grid applications that are essential for function of the project at the end, mainly smart applications related to safety issues, smartening of substations (sensors, information devices, applications), modernization of the grid caused by integration of RES, e-mobility etc., smart metering, communication devices such as optical fibers and IT support devices.



Project value:

Estimated project value:
€ 493 million

Estimated time of realization:
2020 - 2029



Project promoters:



Západoslovenská
distribučná, a.s.



E.ON Észak-dunántúli
Áramhálózati Zrt.



Slovenská elektrizačná
prenosová sústava, a. s.

Supporting member:



Magyar Villamosenergia-ipari
Átviteli Rendszerirányító Zrt.

elmű hálózat

Elmű Hálózati Kft.

émász hálózat

Émász Hálózati Kft.



Východoslovenská distribučná, a.s.