



European
Commission

Implementation of the SINCRO.GRID PCI – Phase 1 10.3-0022-SIHR-W-M-16

10.3-0022-SIHR-W-M-16

Programme:

CEF Energy

Call year:

2016

Location of the Action:

Croatia, Slovenia

Implementation schedule:

November 2016 to November 2021

Maximum EU contribution:

EUR 40,489,013

Beneficiaries:

ELES, Ltd., Electricity Transmission System Operator (Slovenia)

<http://www.eles.si>

Croatian Transmission System Operator Ltd. (Croatia)

<http://www.hops.hr>

SODO Electricity Distribution System Operator d.o.o. (Slovenia)

<http://www.sodo.si/en>

HEP-Operator distribucijskog sustava d.o.o. (Croatia)

<http://www.hep.hr>

Status:

Closed

Energy corridor:

Smart grids deployment

Energy sector:

Smart Grid

Project(s) of Common Interest:

10.3

Executive summary:

Executive Summary available [here](#)

Additional information:

European Commission, DG ENER

<https://energy.ec.europa.eu/topics/infrastructure>

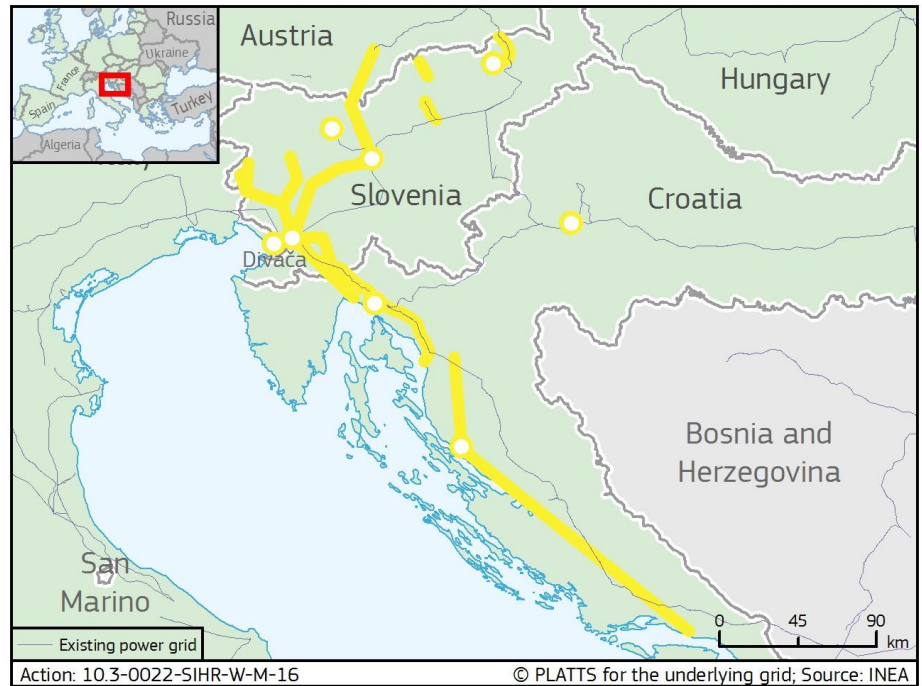
Agency for the Cooperation of Energy Regulators (ACER)

<http://www.acer.europa.eu/>

European Network of Transmission System Operators for Electricity (ENTSO-E)

<http://www.entsoe.eu/>

Last modified:



The Action to together with Action 10.3-0018-SI-W-M-18 implemented the PCI 10.3 SINCRO.GRID (Slovenia/Croatia), which aimed at solving network voltage, frequency control and congestion issues and enabling further deployment of renewables (RES) and displacement of conventional generation by integrating new active elements in the transmission and distribution grids into the virtual cross-border control centre based on advanced data management and common system optimisation. The scope of the Action comprised of the i) deployment of 5 compensation devices to address at cross-border level overvoltage and voltage instability issues within the regional transmission grid, ii) deployment of advanced dynamic thermal rating (DTR) systems in the Slovenian and Croatian transmission grids, iii) deployment of electricity storage systems, iv) integration of distributed renewable generation (DG) and v) deployment of a virtual cross-border control centre (VCBCC) consisting in dedicated IT infrastructure and software to be used by system operators for the efficient and coordinated management of RES. The action was successfully completed. The main outcome of the Action is a significant improvement of voltage profiles on the network, leading to increased security of supply in Slovenia and Croatia.

Action Website:

<https://www.sincrogrid.eu/en/>



European
Commission

March 2023