

# Feasibility Study on Synchronous Interconnection of Ukrainian and Moldovan Power Systems to ENTSO-E Continental Europe Power System

Nº1

**Joint Operational Programme Romania-Ukraine-Republic of Moldova 2007-2013**  
**Common borders. Common solutions.**

## IN FOCUS

### Project Implementation

The Ministry of Economy of the Republic of Moldova, applicant to the Joint Operational Programme Romania-Ukraine-Republic of Moldova 2007-2013, signed a Partnership Agreement with the Ministry of Energy and Coal Industry of Ukraine and the Ministry of Economy of Romania and is acting as the beneficiary of the project. The grant contract with the Joint Management Authority for JOP RO-UA-MD 2007-2013 was signed in autumn 2013 (MIS ETC CODE 2739).

In this context, a Consortium made of TSOs which are ENTSO-E members was formed in order to elaborate the "Feasibility Study on the Synchronous Interconnection of the Ukrainian and Moldovan Power Systems to ENTSO-E Continental Europe Power System".

The overall objective of the project is to support the synchronous connection of the Ukrainian and Moldovan Power Systems to ENTSO-E Continental Europe Power System by analyzing the measures to be taken in order to overcome technical, organizational and legal possible obstacles.

The main objectives of the feasibility study are:

- to investigate the possibility of UA and MD power systems to be operated in parallel with the Continental European Synchronous Area (CESA) respecting its technical operational standards;
- to investigate the degree of implementation of ENTSO-E's technical operational standards in the UA/MD power systems;
- to analyze the difference in relevant legislation in the field of energy between UA/ MD and EU countries;

The precondition for any extension of the Continental European Synchronous Area is to keep its reliability at the present level. In the end, based on



reports and analysis, the study will define all the technical, regulatory and operational requirements for the full integration of the Ukrainian and Moldovan power system.

The feasibility study is the first phase of the interconnection project. It will be followed by an assessment of the results by the relevant ENTSO-E technical bodies and, in case the interconnection is considered feasible and beneficial from socio-economic point of view, the next phase will be establishing a Connection Agreement between UA/MD TSOs and ENTSO-E in order to accomplish the technical, organizational and legal requirements for interconnection.

Island operation and interconnection operation tests will follow after the realization of the necessary infrastructure projects.

The final goal of the whole process is permanent synchronous operation of Moldova and Ukraine with Continental Europe as well as, depending on the level of implementation of EU legislation in the field of energy in Ukraine and Moldova, ENTSO-E membership of the Moldovan and Ukrainian TSOs.

The service contract between the Consortium and the beneficiary was signed on 6th of November 2014 at

Bucharest. On the same date the kick-off meeting was held in Bucharest and the implementation of the service contract was launched.

As Supporting Party for Synchronous Interconnection of the Ukrainian and Moldovan Power Systems to ENTSO-E Continental Europe Power System, Transelectrica (Romania) is the Consortium Leader. The other consortium members are TSOs which operate in CESA: EMS (Serbia), ESO EAD (Bulgaria), MAVIR (Hungary), PSE (Poland). BEA (Bernard Energy Advocacy- Belgium) also joined the consortium.

The Joint Operational Programme Romania-Ukraine-Republic of Moldova 2007-2013 is financed by the European Union through the European Neighborhood and Partnership Instrument and co-financed by the participating countries in the programme. [www.ro-ua-md.net](http://www.ro-ua-md.net)

#### In this issue:

History of the Project

Purpose of the Project

Status of the project



This project is funded by the European Union



Romania-Ukraine-Republic of Moldova  
CROSS BORDER COOPERATION

The elaboration of the feasibility study is done by Transelectrica, EMS, ESO-EAD, MAVIR, PSE and BEA.

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