Project Sheet

South Balkan Corridor

Project type	transmission
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Key Information

Cross Border Project
Internal Project
AC transmission line
New

Under Construction

Description

This project consists of three investments: one 400 kV OHL Bitola(MK)- Elbasan(AL), and two 400 kV SS Ohrid and Kumanovo, in Macedonia.

The interconnection contributes to increasing the transmission capacity in the East-West direction.

The mentioned two SS-s will increase the security of supply in the SouthWest part of the FYR of Macedonia.

Construction of 400 kV OHTL interconnection from SS Bitola 2 to Macedonian/Albanian border and SS 400/110 kV Ohrid

400 kV interconnection transmission line Bitola (Macedonia) - Elbasan (Albania) is the last part of the implementation of the Corridor 8 in the context of creating a corridor East-West power transmission corridor between Bulgaria, Macedonia, Albania and Italy.

Project promoters

MEPSO

Countries

Albania
North Macedonia

National development plan(s)

2017

Additional information on the project

Project sheet backlog

6 Nov. 2020 - Publication as part of the draft TYNDP 2020 package for consultation

Project Description & Context

Project Investments

Main investment(s): New 150km cross-border single circuit 400kV OHL between existing substation Bitola(Macedoonia) and Elbasan(Albania).

Type of element	Total route length (km)	From substation 1	To substation 2	Present status	Commissioning year	Progress of the investment	Explanation in case of delay or reclustering
AC transmission line	161	Bitola	Elbasan	Under Construction	2020	New Investment	

Other investments

Description	Type of element	Total route length (km)	From substation 1	To substation 2	Present status	Commissioning year	Progress of the investment	Explanation in case of delay or reclustering
New 400/110 kV substation in Ohrid area connected in/ out to the new 400 kV line Bitola-Elbasan. This SS will contribute to the security of supply in the internal southern network of the country.	Onshore substation		missing value	missing value	Under Construction	2020	New Investment	

Reason for investment clustering

to be filled in

Is the project in the reference grid?

Yes

System Needs addressed by the project

Project promoter(s) selected up to 4 system needs that are addressed by their project in a predefined list. Available needs ranged from reduction of price differentials between countries, improvement of system flexibility and stability, enabling cost-efficient connection of high volumes of RES, improvement of voltage stability...
As part of the TYNDP 2020, ENTSO-E released a study investigating cross-border system needs in the 2030 and 2040 horizons.

The project promoter did not select any need.

Interconnection targets

In 2017, the Interconnection Target Expert Group proposed alternative indicators to the 15% interconnection criteria for every country and electrified island with a new methodology developed collaboratively between the European Commission, ENTSO-E, ENTSOG, industry, universities and other experts. The methodology is based on three indicators:
1. Price differential between EU countries, with an objective to reduce it below 2 EUR/MWh
2. Ratio between nominal transmission capacity and installed RES capacity, with a target of past 30%
3. Ratio between nominal transmission capacity and peak load, with a target of past 30%

The following maps show the ITEG methodology applied to the TYNDP 2030 scenarios, with the 2020 grid.

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Project Assessment

Transfer capacity increase (National Trends 2025)

	Border	A B	B A
Transfer capacity increase (in MW)	Albania - North Macedonia	500	500

CBA results

ENTSO-E has assessed the benefits delivered by each project in 2025 (scenario National Trends 2025) and in 2030 (three scenarios: National Trends, Distributed Energy and Global Ambition). Indicators B1 to B6 were computed by ENTSO-E, while promoters had the possibility to compute and submit so-called project-level benefits (B7 to B10). The benefits must be understood as benefits for Europe as a whole, not for the promoters of the project.
Results are presented per scenario.

This project chose not to request a cost-benefit analysis in the TYNDP 2020. The possibility to opt out of the CBA was offered to projects under construction or to very long-term project commissioning after 2035.

Residual impact

Information on the residual impact of the project was provided by the project promoter(s).

Project Costs

The project costs were provided by the project promoter(s).

	CAPEX (Meuro)	Uncertainty range (%)	OPEX
1622. 400kV OHL SS Bitola - SS Elbasan	63.733		2.867
1623. 400 kV SS Ohrid	17.68		1.414
Total	81.413		4.281

Explanation provided by the project promoter on the CAPEX uncertainty range:

1622

1623