



Nezavisni operator sistema u Bosni i Hercegovini
Независни оператор система у Босни и Херцеговини
Neovisni operator sustava u Bosni i Hercegovini
Independent System Operator in Bosnia and Herzegovina

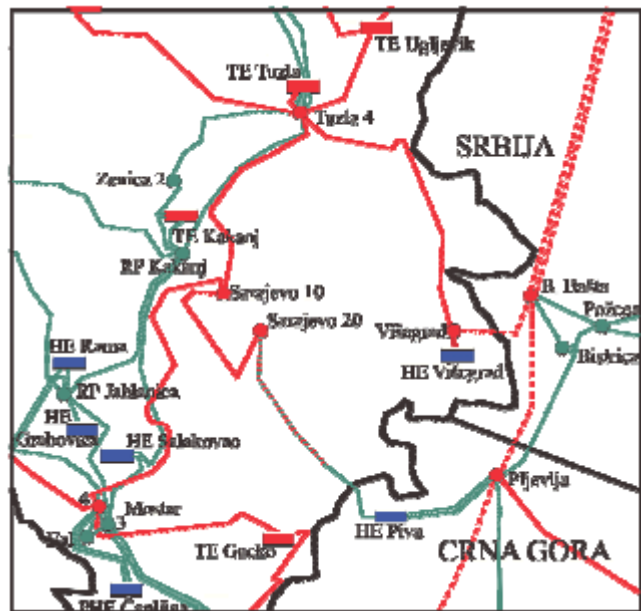
Regionally significant electricity interconnection projects in Bosnia and Herzegovina

December, 2022

Planning documents

- **Indicative Generation Development Plan (IGDP)** is made every year by Independent System Operator in B&H (**NOS BIH**). This plan is made for the next ten year period. The latest **IGDP 2023-2032** is adopted from State Electricity Regulatory Commission on **May 2022**.
- Transmission Company of B&H (**Elektroprenos BIH**) is in charge to make **Transmission Network Development Plan (TNDP)** every year, and this plan is revised by NOS BIH. This plan is a base for Investment plans. The latest TNDP, which is adopted from State Electricity Regulatory Commission on **May 2021**, is **TNDP 2021-2030**.
- The national plans can be found in local language: <https://www.nosbih.ba/en/dokumenti/planovi/>
- Interconnection projects in the national plans are **in accordance** with ENTSO-E Ten Year Network Development plans (**TYNDP**) and **regional plans (Central South East Europe region)**.

TYNDP 2020/2022: Project 227- Transbalkan Corridor 400 kV OHL Višegrad (BA)-Bajina Bašta (RS)



Project promoters are EMS, CGES and NOSBIH/Elektroprenos BIH. The main project of construction is co-financed under WB13-REG-ENE-01 project:

First Project Implementation Phase:

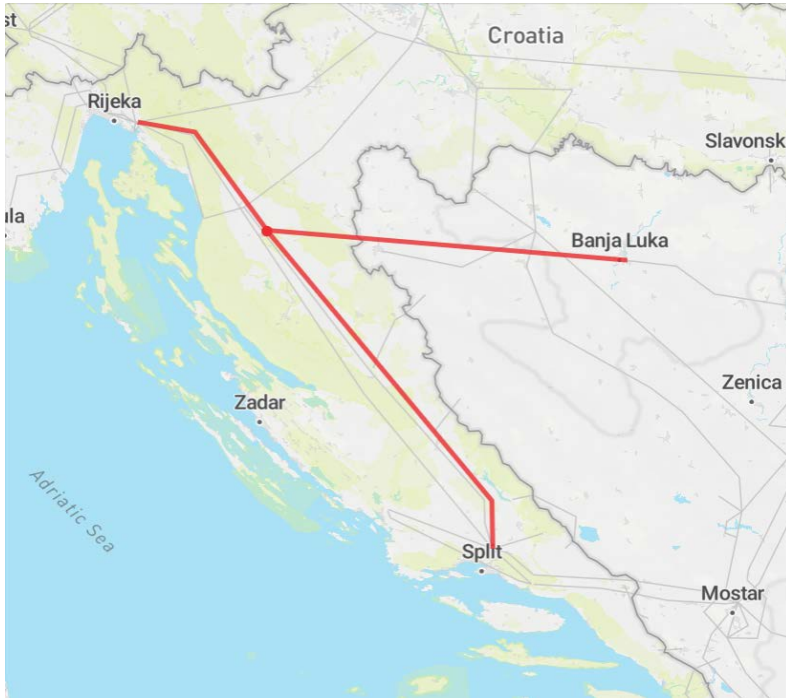
- New 400 kV OHL SS Višegrad (BA)- SS Bajina Bašta (RS):
 - equipping of one circuit on the section from SS Višegrad (BA) to border RS/BA and further to Vardište (RS);
- Equipping of one OHL bay in SS Višegrad (BA)
- **First Phase:** start of construction in 2023, end of construction in 2026;

Second Project Implementation Phase:

- Equipping of second circuit on the section from SS Višegrad (BA) to Vardište (RS) and further toward future 400 kV SS Požega (RS) as the first option, or 400 kV RHPP Bistriča (RS) as the second option. Equipping of second OHL bay in SS Višegrad.
- **Second Phase:** start of construction in 2028, end of construction in 2029;

The project is included in the latest TNDP 2021-2030, made by Elektroprenos BIH, and the realization is planned by own funds.

TYNDP 2020/2022: Project 343- CSE 1 New 400 kV OHL Banja Luka (BA) – Lika (HR)

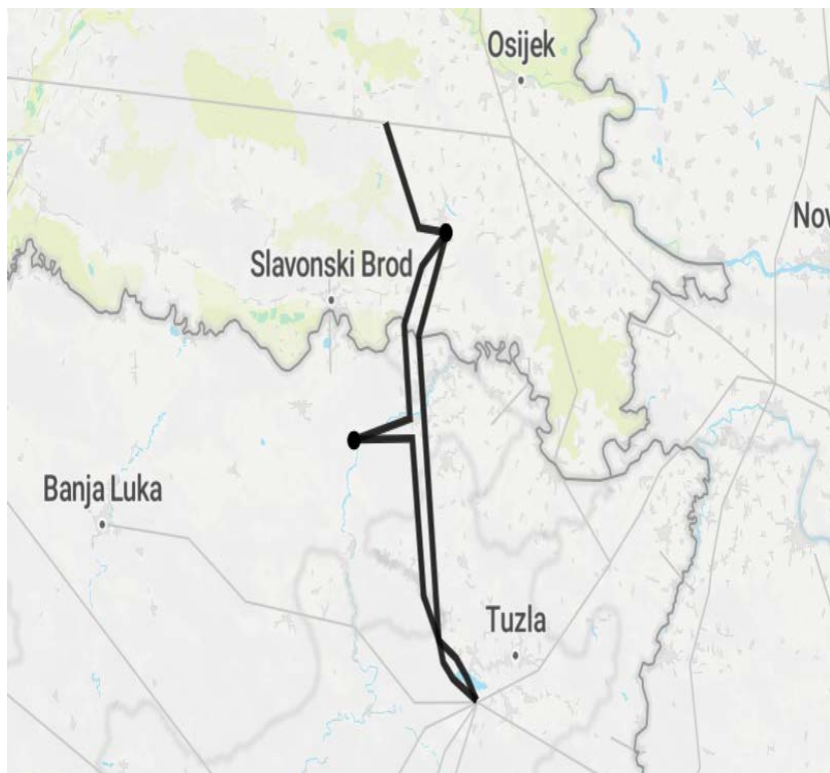


Project promoters are HOPS and NOSBIH/Elektroprenos BiH. The construction project of the new interconnection transmission line 400 kV SS Lika (HR) – SS Banja Luka (BA). This is a part of the project to strengthen the Croatian transmission network on the section Konjsko - Lika – Melina. An agreement on construction was reached between Croatia and Bosnia and Herzegovina and the Feasibility Study was prepared. According to the latest information the realization of interconnection TL 400 kV Banja Luka – Lika, in HOPS plans is postponed after 2030 (in 2032).

For this project there are not planned financial resources in the latest TNDP 2021-2030, made by Elektroprenos BiH, because its realization is predicted out of ten year period of this Plan.

TYNDP 2020/2022: Project 241

Upgrading of existing 220 kV lines between BA and HR to 400 kV



Project promoters are HOPS and NOSBIH/Elektroprenos BiH.

Part of project in Bosnia and Herzegovina includes upgrading of existing **220 kV** lines between **SS Tuzla/Gradačac (BA)** and **SS Đakovo (HR)** to **400 kV** lines. Project also includes transition of SS Gradačac on 400 kV.

This is part of a wider project of construction and reconstruction of the transmission network on the territory of Croatia and Bosnia and Herzegovina with the aim of replacement of the existing 220 kV network with a 400 kV network.

Project is **under consideration** for construction until 2032.

There is **a need** for preliminary Feasibility study.

For this project there are not planned financial resources in the latest TNDP 2021-2030, made by Elektroprenos BiH, because its realization is predicted out of ten year period of this Plan.

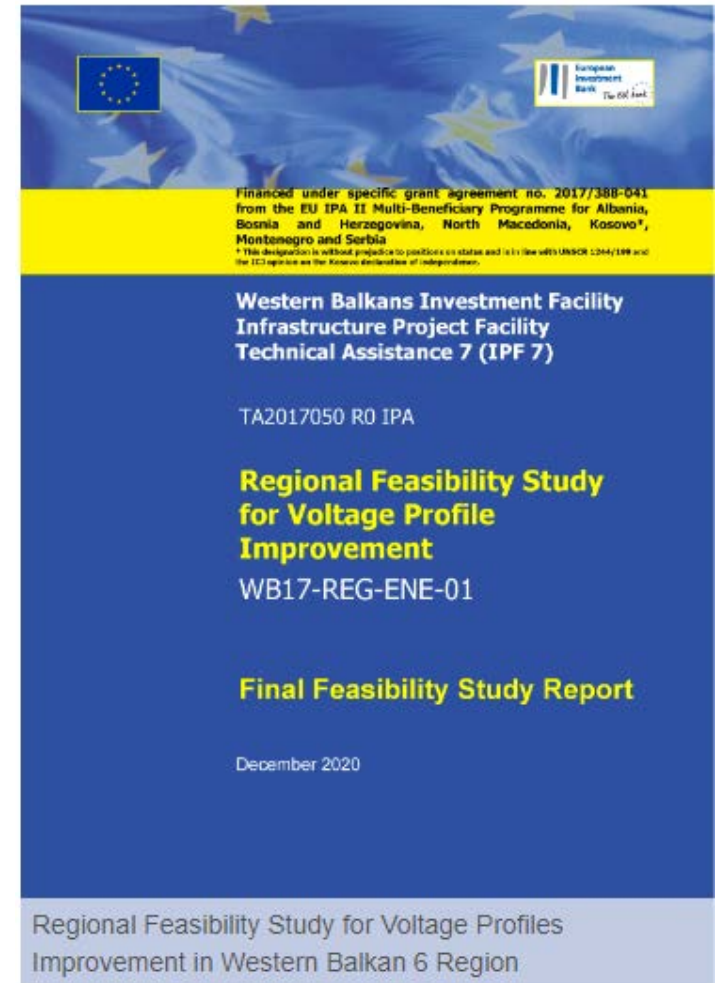
110 kV Interconnection line SS Srebrenica (BA) – SS Ljubovija (RS)

- This project is not part of ENTSO-E TYNDP 2020/2022, but it is included in the latest TNDP 2021-2030 made by Elektroprenos BIH.
- Affected TSOs are EMS (Serbia) and NOS BIH/Elektroprenos BIH (Bosnia and Herzegovina). Predicted year of finalization is 2024, **and project realization in Bosnia and Herzegovina is planned by own funds of Elektroprenos BIH.**



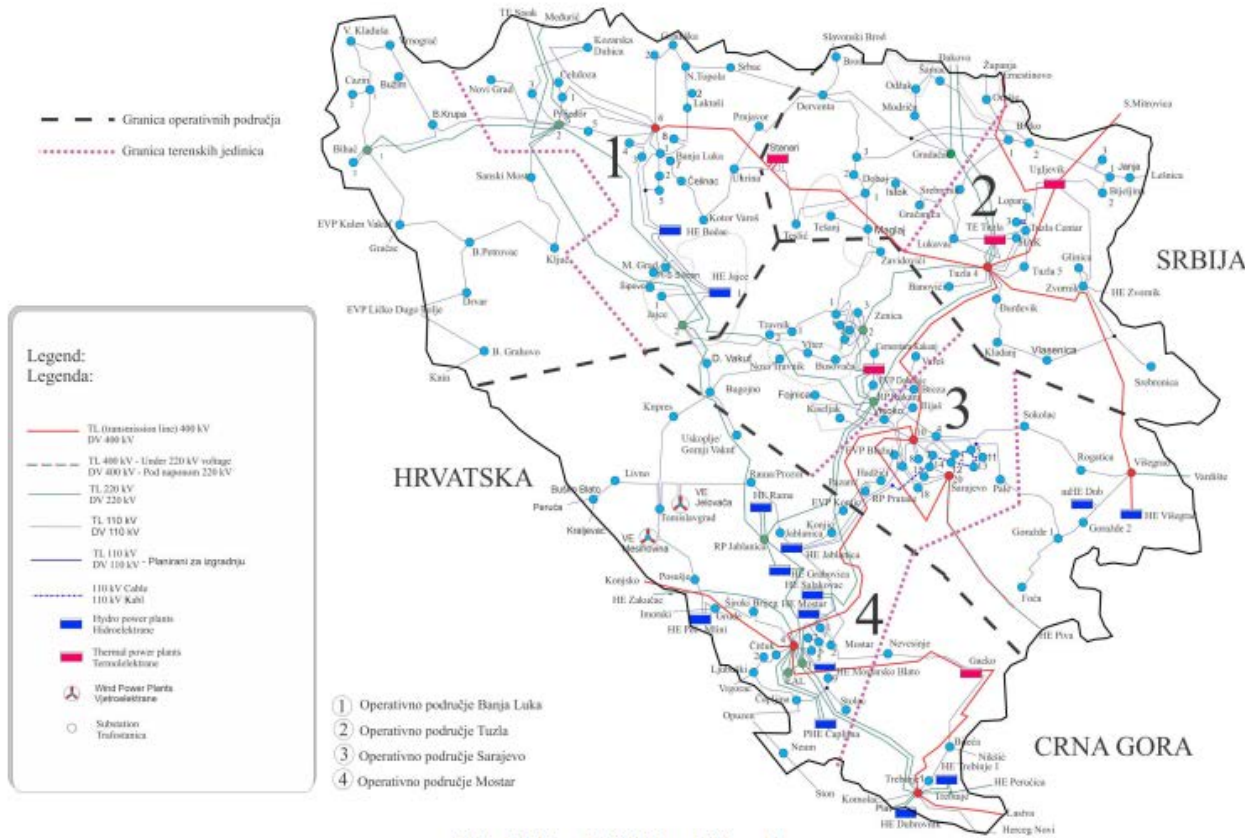
Installation of voltage regulation devices

- Regional Feasibility Study for Voltage Profile Improvement (WB17-REG-ENE-01), was completed in 2020. In this study the voltage regulation devices in Bosnia and Herzegovina are optimally foreseen to be placed in:
 - SS Tuzla 4 – 220 MVar;
 - SS Mostar 4– 120 MVar;
- For the installation of voltage regulation devices, the **TNDP 2021-2030**, made by Elektroprenos BIH foreseen **credit funds** in 2024, in amount of **15.3 mil. EUR**, and they were specified for the installation the devices at 400 kV.



Installation of voltage regulation devices

- Elektroprenos BIH also considers the option of building 4 voltage regulation devices on 4 different locations, but with smaller power.



This option includes **4 devices** with the power of **150 MVAR** instead of 100 MVAR in the next 4 SS, with connection to 400 kV power grid: **SS Banja Luka 6, SS Mostar 4, SS Tuzla 4 and SS Višegrad.**

Currently, Elektroprenos BIH can not give detailed information regarding this investment's, such as expected commissioning year and price value.



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Thank you for you attention!

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