



SERBIA

Partners:

- JP Elektromreža Srbije (EMS)

Estimated total investment:

- €40.8 million

EU technical assistance:

- €0.8 million¹

Duration of Technical Assistance:

- October 2015 – April 2018

Lead IFI:

- KfW

Technical Assistance provided by:

- Infrastructure Project Facility 3 (Mott MacDonald – WYG – Atkins IPF Consortium)

Energy

Trans-Balkan Electricity Corridor: Feasibility Study for 400 kV Bajina Basta – Kraljevo Overhead Transmission Line

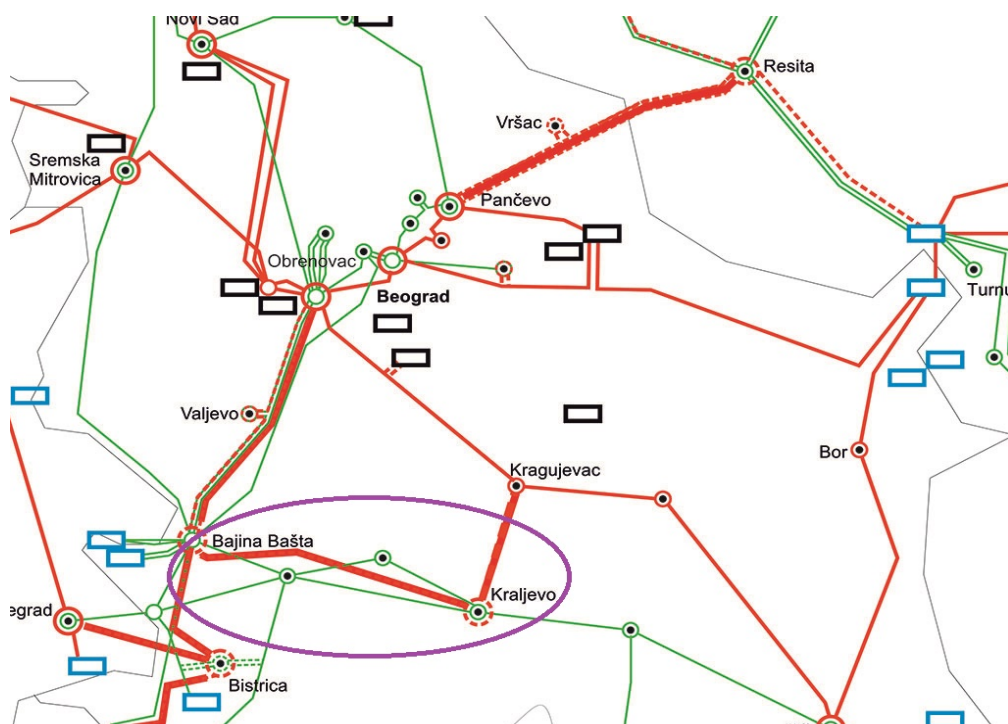
This project concerns the upgrade of the existing 220 kV overhead line between substation (SS) Kraljevo 3 and SS Bajina Basta to a 400 kV (single or double circuit) connection. It constitutes the first phase of a larger programme to upgrade the the Central Serbia electricity transmission system from 220 kV to 400 kV voltage level. The upgrade of Kraljevo 3 substation is already in the last phase of preparation, along with the new 400 kV overhead transmission line in direction of Kragujevac 2 substation (400 kV). These investments together with this project will form a strong 400 kV transmission system in the middle of the most congested regional Northeast-Southwest and East-West transmission corridors.

This grant concerns the preparation of a feasibility study, preliminary design, and environmental and social impact assessment to investigate the viability

of upgrading the existing 220 kV overhead line between substation (SS) Kraljevo 3 and SS Bajina Basta to a 400 kV (single or double circuit) connection.

Results / Benefits:

- Feasibility study for a new high voltage (400 kV) overhead-line between Bajina Basta and Kraljevo.
- Improved net transfer capacity to facilitate anticipated load and transit growth, including new conventional and renewable generation sources.
- Improved quality and security of electricity supply and decrease in technical losses.
- Decrease in CO₂ emissions associated with current technical losses.
- Potential to develop the regional energy market, including trading opportunities with Romania, Bulgaria, and Italy.



Trans-Balkan Electricity Corridor: Bajina Basta – Kraljevo Overhead Transmission Line.

¹ Grant reference number: WB9-SER-ENE-01