



Reconfiguration of 400 kV grid and new 400 kV interconnection Albania-Kosovo

February 2026

Why?

- current 220 kV interconnection Fierza – Prizren 2 **subject of congestion**;
- **overloaded 220 kV interconnection network**, with 400 kV network relatively passive in export situations,
- **main hydro power plants and major load centers** connected directly in the 220 kV transmission grid;
- a need to **redirect load flows mainly to the 400 kV grid** through new transformation nodes;
- close to areas **with large potential of wind power** plant development;

Albanian part of the project:

- **construction of new 400 kV interconnection line** between new 400/220 kV SS Fierza and new 400 kV SS Prizren4 with ACSR 2x490/65 mm² conductor (25 km in Albanian territory),
- construction of a **new 400/220/110 kV substation** near the existing Fierza substation;
- installation of a **400/220 kV, 600 MVA phase shift transformer**;
- **reconfiguration of the 220 kV and 400 kV lines** that will connect to this substation;
- **connection to 110 kV transmission grid** in the area;

Kosovo part of the project:

- **construction of the second interconnection 400 kV line SS Prizren4 - SS Fierza** with a length of 45 km in Kosovo,
- expansion of the 110 kV busbar system,
- **construction of 400/110 kV SS Prizreni-4 (Nashec)**, with one 300 MVA autotransformer,
- **construction of 400 kV switchgear SS Gjakova**,
- **construction of 400 kV single line, 31.5 km, SS Gjakova-SS Prizren-4**,
- **construction of the single line SS Gjakova - SS Peja 3** with a length of 35.5 km,

New 400 kV transmission ring between Albania and Kosova

New 400 kV line SS Peja 3-
SG Gjakova 3

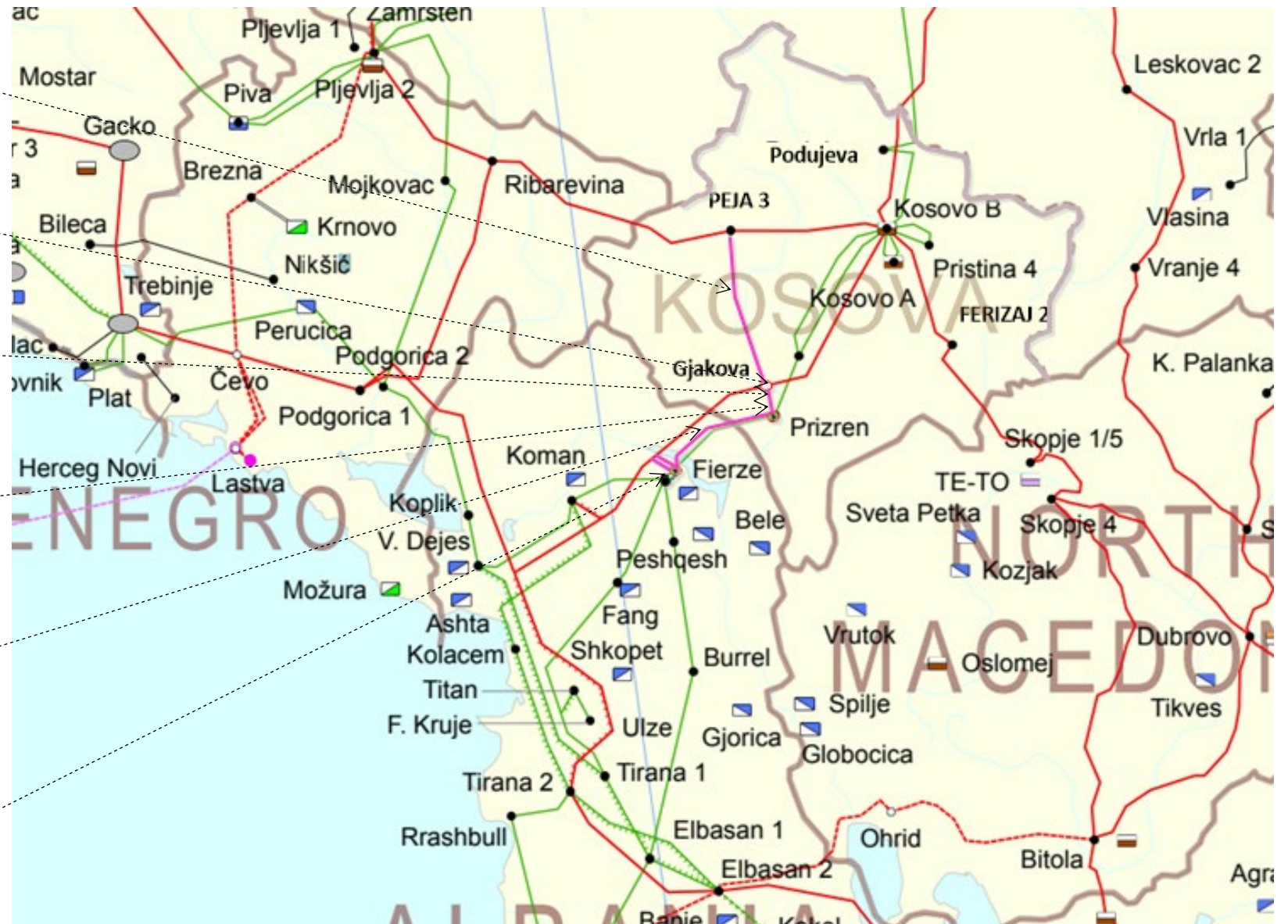
New SG Gjakova 3, 400 kV

New 400 kV line SS Prizren
4 -SG Gjakova 3

Upgrade to 400/220/110
kV SS Prizren 4

New 400 kV
interconnection line SS
PRIZREN 4 –SS FIERZA (AL)

Upgrade to 400/220/110
kV SS Fierza



Expected benefits:

- Improving the security of supply and flexibility in the operation of the energy system,
- Increasing the value of the Net Transfer Capacity (NTC) between the two countries,
- A better distribution of the generation flows of HPP Fierza and the Drin river cascade in the 400 kV network,
- Integration in the grid of more than 1,3 GW of generating capacity from new wind power plants,
- Increasing commercial exchanges and market coupling with Kosova,
- Reducing the grid power losses,

Important aspects:



- Indicative investment cost:
 - of the Albania part - **43 million Euro**
 - of the Kosovo part – **50.4 million Euro**
- The project has successfully **applied to WBIF instrument for technical assistance** for feasibility and environmental impact studies: **Terms of Reference finalized.**
- Excepted time schedule **for construction: 2029**



***Thank You for
Your Attention!***