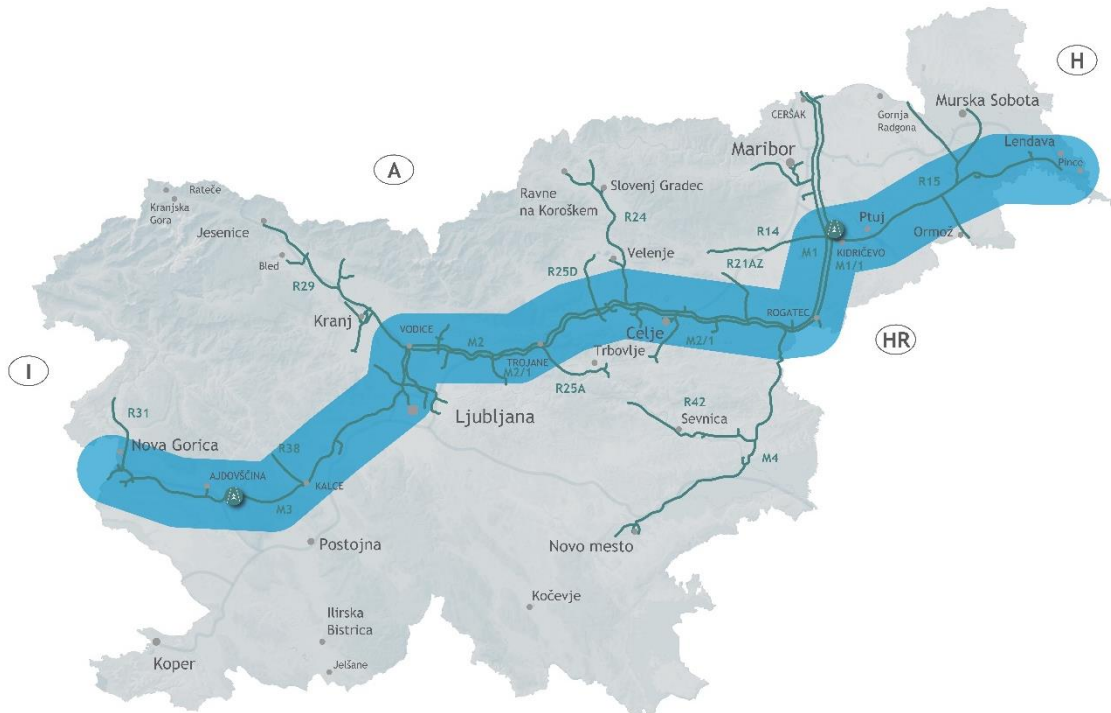


Italy-Slovenia-Hungary H2 corridor

(ENTSOG TYNDP 2024 project code H2T-N-1356)



Project description & Aim of the project

The project Italy-Slovenia-Hungary H2 corridor will establish a new supply route for hydrogen and will connect three neighbouring countries: Italy, Slovenia and Hungary. With this project Slovenia and Hungary will gain access to North African region via Italy. North Africa has a vast RES potential and significant hydrogen quantities are expected to be imported from this region. Project will also contribute to the diversification of energy sources and supply routes, which would result in increase of energy (hydrogen) supply from third countries. The IT-SI-HU H2 corridor will also contribute to the development of hydrogen economy in all three involved countries. Increased interest in domestic hydrogen production and consumption in all three countries is expected, since this project will enable access to hydrogen transmission system and allow export and import of hydrogen. Project will establish two new hydrogen IPs with Italy and Hungary. Capacity in both IT-HU and HU-IT directions will be up to 357,000 Nm³/h.

The expected benefits of this H2 corridor are:

Project will enable start of hydrogen economy in Slovenia and gradual replacement of natural gas with carbon neutral green hydrogen. Project will contribute to diversification of energy sources in all three involved countries by increasing utilisation of domestic RES potential and by enabling hydrogen imports from third countries and exchange of domestically produced hydrogen between involved countries.

Scope of the project

The project Italy-Slovenia-Hungary H2 corridor consists of 4 pipeline sections and 2 compressor stations on the Slovenian territory:

- New section R15/1 Pince - Lendava - Kidričevo with the length of 75 km, DN 500 and 70 bar
- Repurposed section M2/1 with the length of 105 km, DN 800 and 70 bar
- Repurposed section M1/1 with the length of 20 km, DN 800 and 70 bar
- New section M3/1 Vodice - Šempeter with the length of 101 km, DN 800 and 70 bar
- CS Ajdovščina upgrade
- CS Kidričevo upgrade

Planned capacity is up to 30 GWh/d in both directions with Hungary and up to 60 GWh/d in both directions with Italy.

Status of the project

The project is part of the ENTSOG TYNDP 2024 (project code H2T-N-1356), confirmed Slovenian NDP for the period 2024-2033 (project code D1) as well as the proposed NDP for the period 2025-2034, which was submitted to the Slovenian Energy Agency for review.

The proposed implementation date is 31.12.2035.