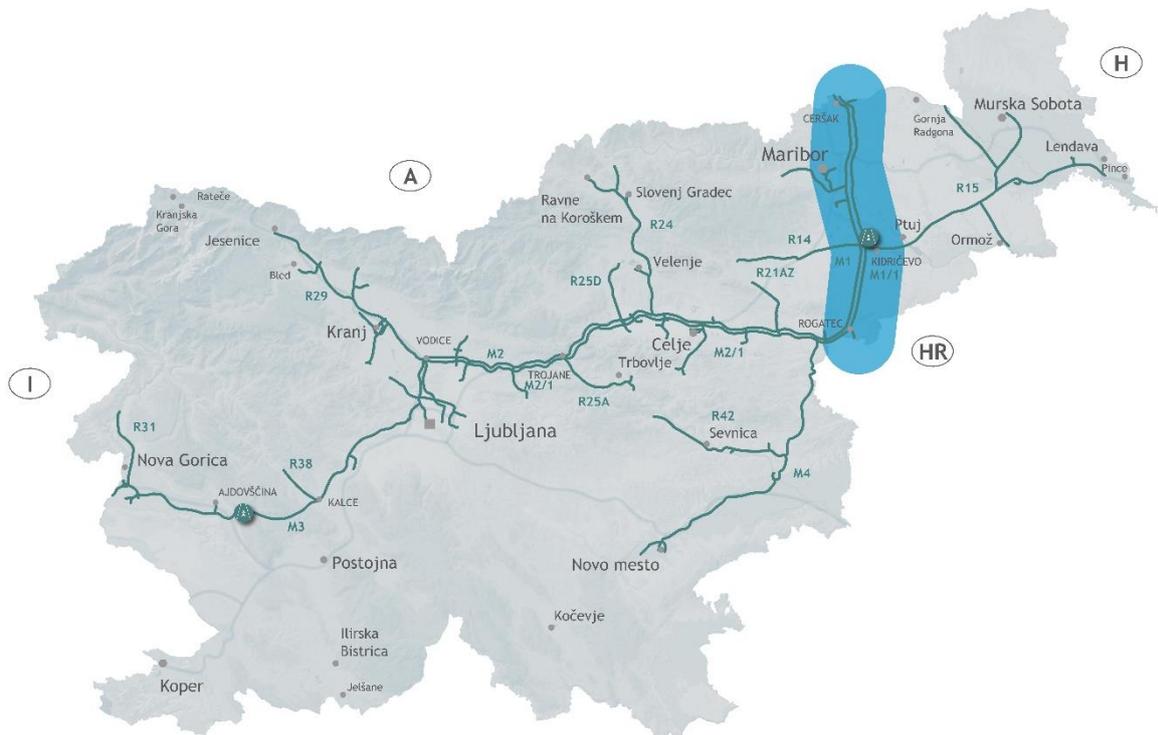


## Croatia-Slovenia-Austria H2 corridor

(ENTSOG TYNDP 2024 project code H2T-N-1237)



### *Project description & Aim of the project*

Project involves repurposing of existing natural gas pipeline to be used for hydrogen transport and establishing a new hydrogen interconnection point, which will be the first hydrogen interconnection point in Slovenia. Project utilizes one of the existing parallel gas pipelines, meaning gas supply will not be interrupted with the implementation of the proposed project. Project will enable supply of Slovenian hydrogen users and allow grid access for hydrogen producers. It represents the first phase of construction of dedicated national hydrogen transmission system. Activities related to the proposed project will be completed by 2029 and will result in unidirectional capacity of up to 33 GWh/day at the interconnection point with Austria. In the next phase the project will be upgraded with a hydrogen compressor station, a new hydrogen interconnection point with Croatia and a short section of newly built hydrogen pipeline from the BMCS Rogatec to national border with Croatia (~4 km). Second phase is planned to be completed by 2035 and will result in bidirectional capacity of up to 60 GWh/day at the interconnection points with both Austria

and Croatia. Proposed hydrogen infrastructure will connect to South H2 Corridor, and will enable supply of Slovenian offtakers with hydrogen from North Africa. In the second phase it will also supply hydrogen offtakers in Croatia. Accelerated implementation of the first phase of our hydrogen project will also contribute to cross-border aspects of North Adriatic Hydrogen Valley (NAHV) project to introduce hydrogen technologies in all three participating countries of the NAHV project (Slovenia, Croatia, Italy - autonomous region Friuli Venezia Giulia).

The expected benefits of this H2 corridor:

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 Croatia-Slovenia-Austria H2 corridor consists of repurposed existing gas infrastructure and newly built hydrogen infrastructure on the Slovenian territory and is planned to be implemented in 2 phases.

First phase:

- Upgrade of interconnection Ceršak - Upgrade of the existing BMCS Ceršak to allow measurements and regulation of hydrogen flow, resulting in first hydrogen interconnection point in Slovenia (between Slovenia and Austria)
- Repurposed section M1/1 with the length of 58 km, DN 800 and 70 bar

Second phase:

- CS Kidričevo - additional hydrogen compressor unit and necessary upgrades at the location of the existing CS Kidričevo
- Upgrade of interconnection Rogatec - Upgrade of the existing BMCS Rogatec to allow measurements and regulation of hydrogen flow including newly built hydrogen pipeline in the length of 4 km, DN 800 and 70 bar

After first phase is completed capacity on IP with Austria will be 33 GWh/day in direction AT->SI. After the second phase is completed, bidirectional capacity of 60 GWh/day on both IPs with Austria and Croatia will be available.

### *Status of the project*

The project is part of the ENTSOG TYNDP 2024 (project code H2T-N-1237), confirmed Slovenian NDP for the period 2024-2033 (project code D2) 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 for the first phase of the project is 12/2029 and for the second phase 12/2035.