

H₂ projects in Eustream

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EUSTREAM – Facts & Figures

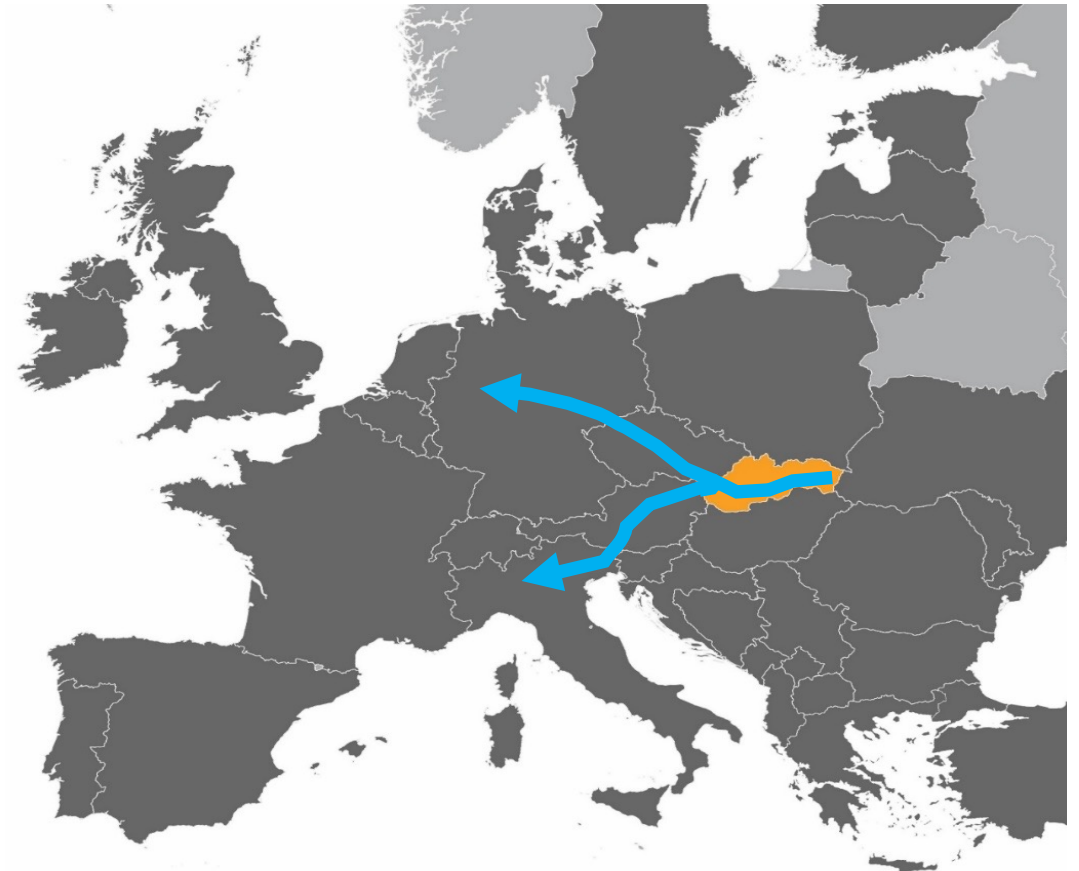
- Technical capacity **78,5 bcm/a** on entry points from UA (E-W flows)
- Technical capacity **55,1 bcm/a** on entry points from CZ (N-S flows)
- **2 376 km** in total
4-5 parallel main lines 1200/1400 mm
- **4 compressor stations**
Total power almost 450 MW
- Operational pressure **7,35 MPa**



Over **2,6 Trillion Cubic Meter** of natural gas transmitted since 1972

Vision Eustream as H₂ entry gate

- **Unique** geographical **location** of our network makes it well positioned for **centralized** hydrogen production and distribution, as we are the **only TSO** with a robust transmission system able to serve **multiple key markets**
 - at the **gateway** to the European future hydrogen markets **with access** to western, eastern and southern Europe, especially via the SK-CZ-DE and SK-AT-IT routes
- Eustream aims to serve as an **entry gate** to the European hydrogen grid and with its **partners**, it will become an essential part of the **new energy landscape**
- To fulfill our **vision** to become a leader in H₂ transmission and to bridge the gap between **affordable** and **clean energy**, we conceptualize following major projects and several research ones



Memberships and Initiatives

- Eustream participates on a **number of initiatives** to accelerate the development of the H₂ market in Europe, such as:

European Hydrogen Backbone

- the initiative of 23 European gas infrastructure companies

H2EU+Store

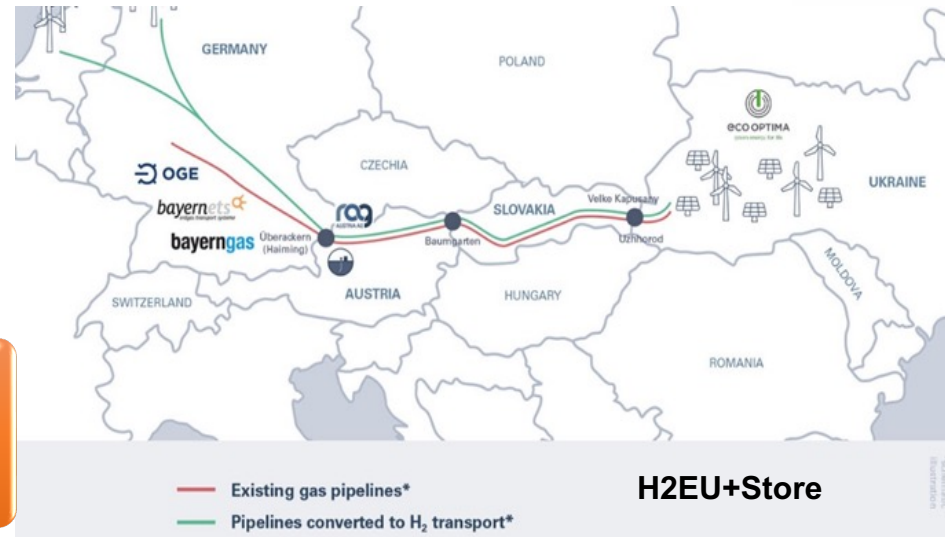
- the initiative of the key regional TSOs in Central Europe from Austria, Germany and the future H₂ producer from Ukraine.

Central European Hydrogen Corridor (the "CEHC")

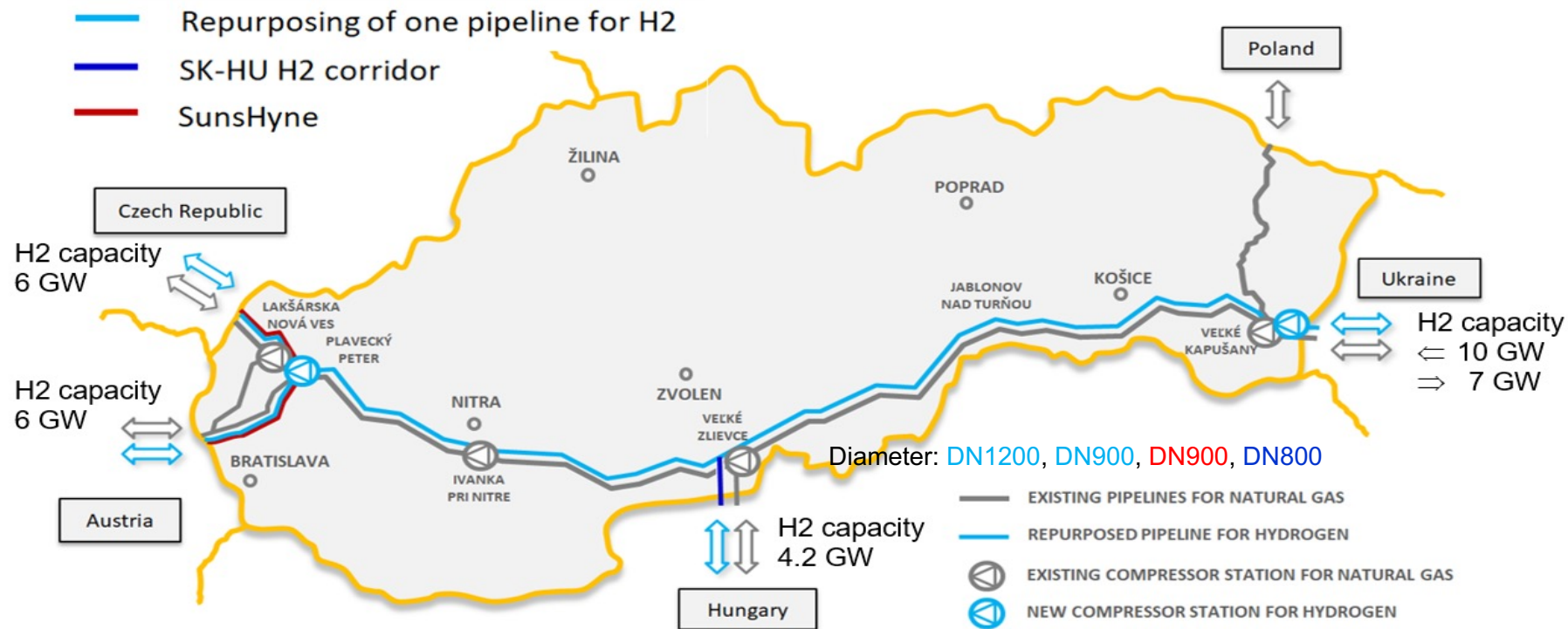
- initiative to explore the feasibility of creating a H₂ "highway" in Central Europe for transporting H₂ via Slovakia and the Czech Republic to H₂ demand areas in Germany.

SunsHyne

- the initiative of the regional European TSOs from Italy, Austria, Slovakia, Czech Republic and Germany to import H₂ from the future H₂ producers in North Africa.



H₂ pipeline system



- Candidate projects of common interest (PCIs)

Candidate PCI Project	DN	Length [km]	Capacity [GWh/h]	Capacity [kt/y]	Capacity [bcm]	Expected Commissioning
Repurpose for H ₂	1200 & 900	500	6 - 10	1 330 – 2 220	14,84 – 24,73	2029
CEHC	1200 & 900	500	6 - 10	1 330 – 2 220	14,84	2029
SK-HU H ₂ corridor	800	19	4,2	930	10,39	2030
SK-HU H ₂ repurpose	800	19	4,2	930	10,39	2040

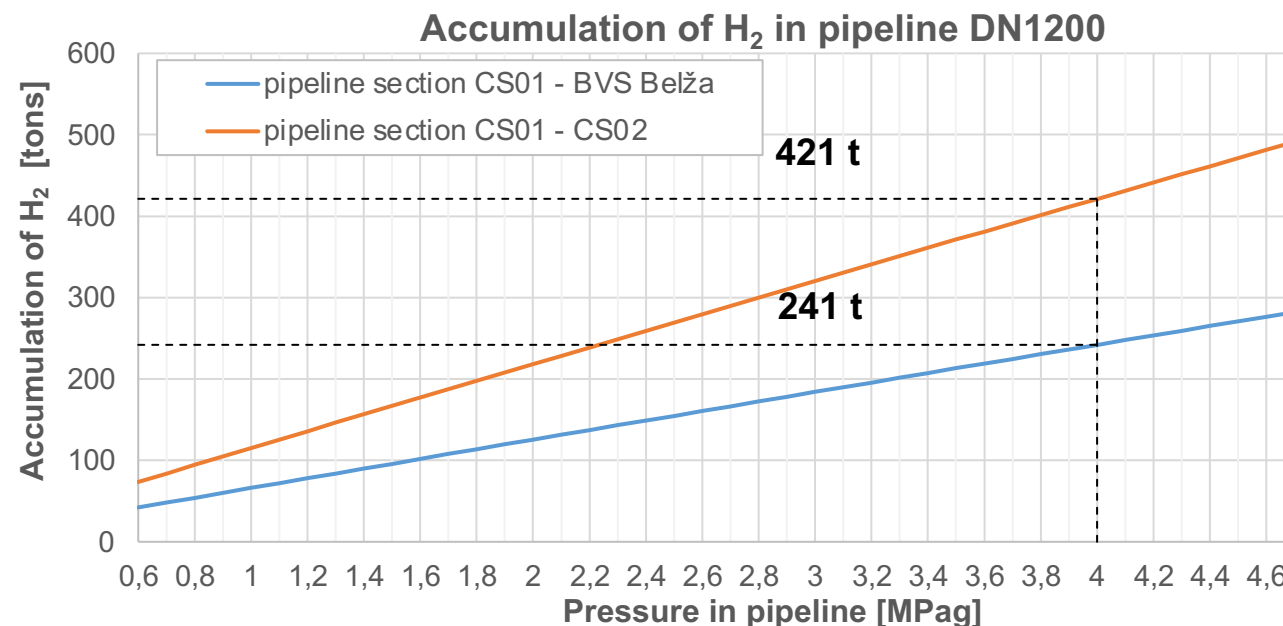
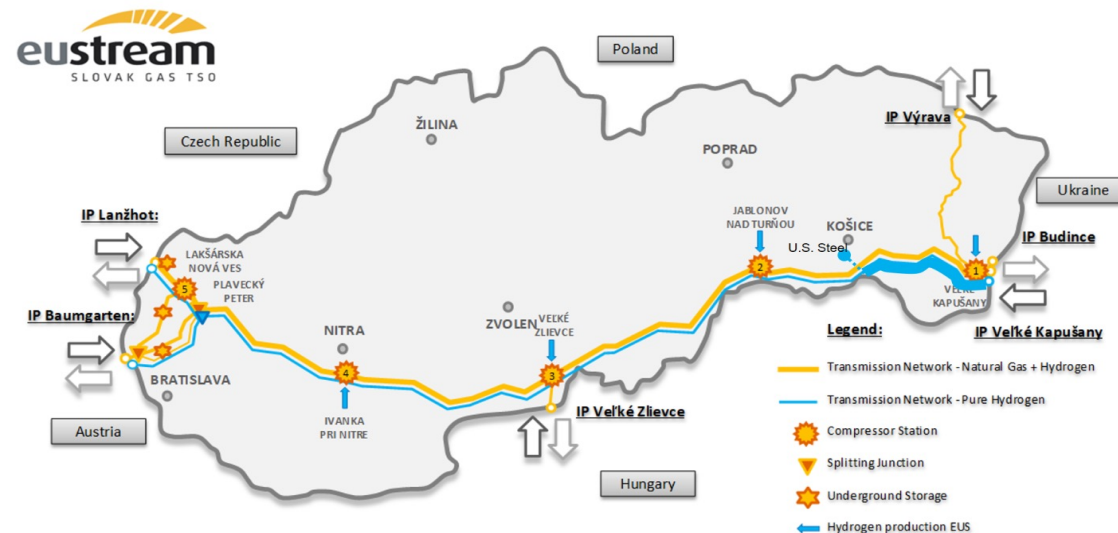
Possible H₂ interconnection UA - U.S. Steel

Existing pipeline:

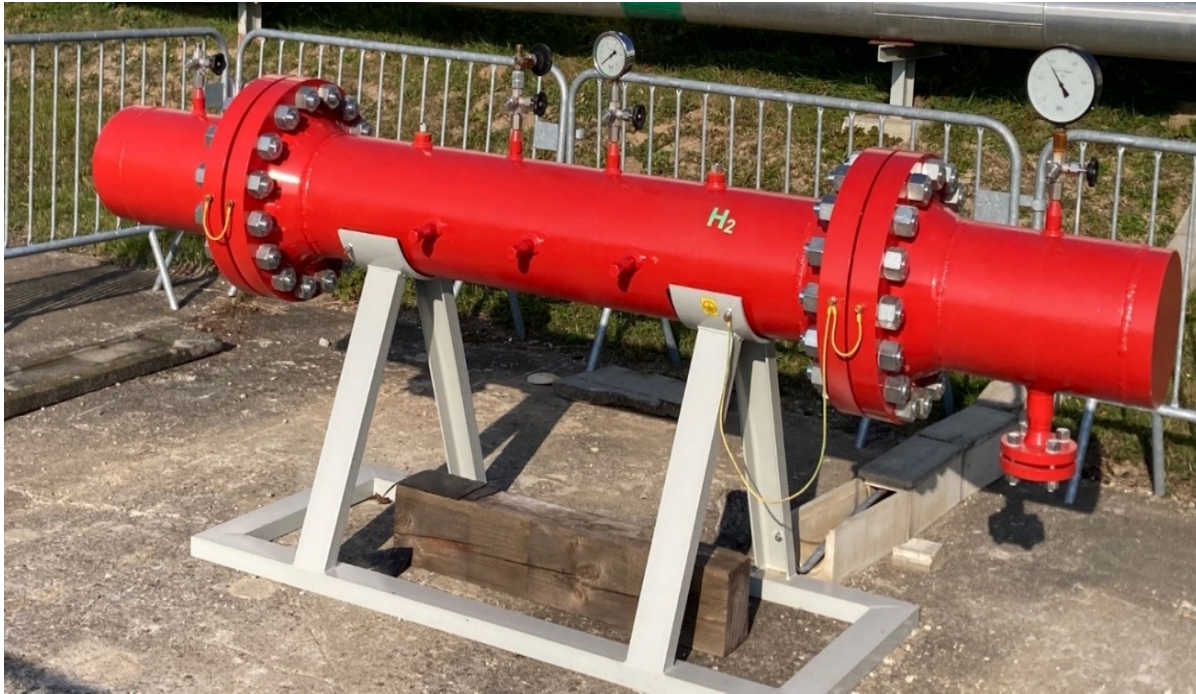
Diameter: DN1200
Length: 71 km

New interconnection Eustream – U.S. Steel:

Length: 6 km



H₂ projects



Small Hydrogen Laboratory

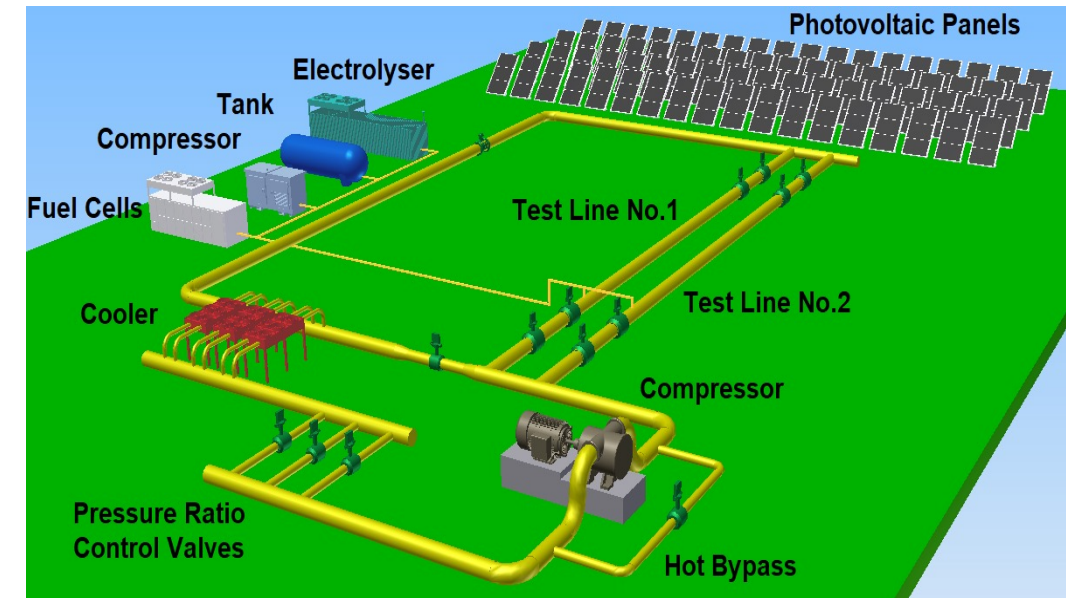


- R&D project focused on H₂ impact on different pipeline materials and sealing components at different pressure levels



Blending up to 5% H₂

- Technological readiness for H₂ in the gas mix in the transmission system with target of 5% H₂ content till the October 2025



IPCEI project: H₂ Infrastructure – Transmission

- R&D and FID project focused on research of readiness of the existing transmission infrastructure for H₂ transmission

Thank you for your attention