

RENEWABLE HYDROGEN · SLOVAKIA

Green Hydrogen Hub Gabčíkovo

Renewable hydrogen production and distribution for Slovakia and the CEE region

A new renewable hydrogen node connecting renewable electricity, transport, industry and cross-border infrastructure.

CONTEXT

Why this project matters now

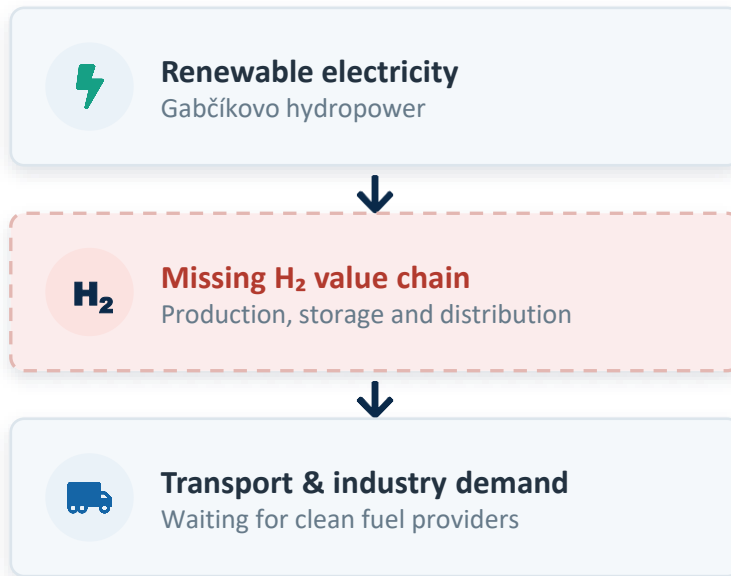
Slovakia and the CEE region need real hydrogen value chains.

- **Decarbonisation pressure**
 - rising across transport and hard-to-electrify industry
- **Infrastructure & offtake**
 - must develop together with production
- **Regulatory pull**
 - RED III, RFNBO, EU ETS and AFIR raise demand for renewable fuels
- **The real bottleneck**
 - linking energy source, demand, distribution and partners

RED III · RFNBO

AFIR refuelling

EU ETS pressure



LOCATION

Why Gabčíkovo



Major renewable asset

- Slovakia's largest renewable electricity sources
- 720 MW of hydropower
- Stable energy



Strategic geography

- near Bratislava, Dunajská Streda, Győr, Vienna and the Danube



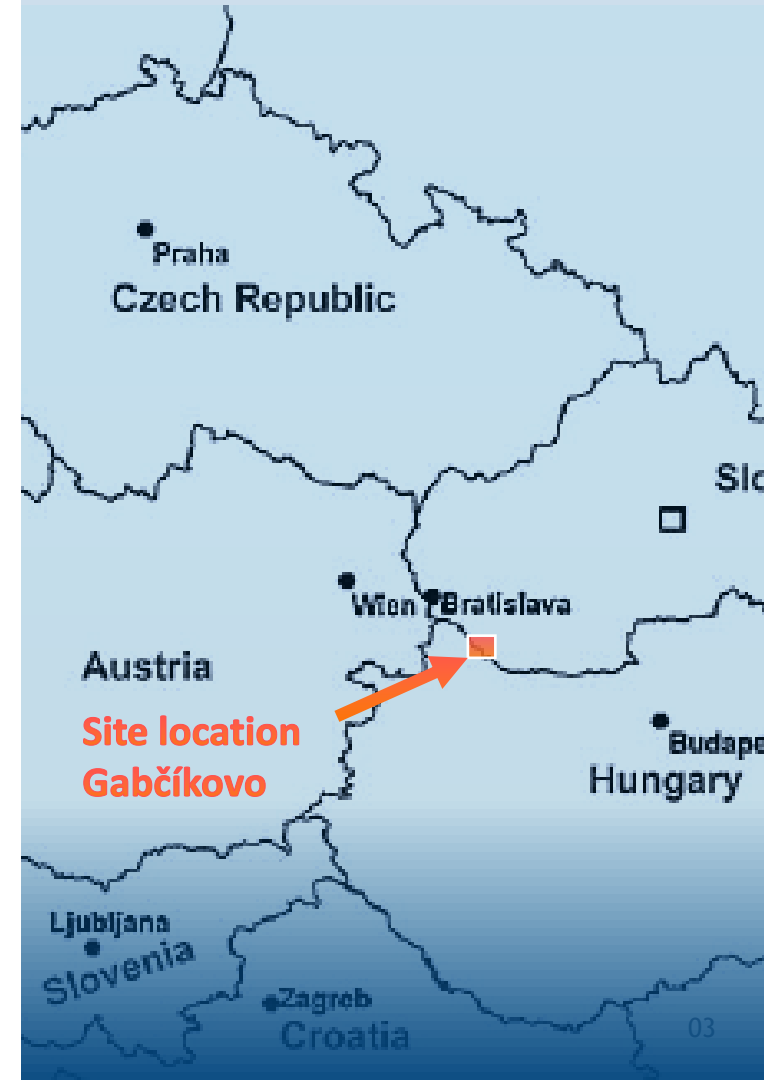
Produce local, distribute regional

- site suitable for on-site H₂ production with regional delivery



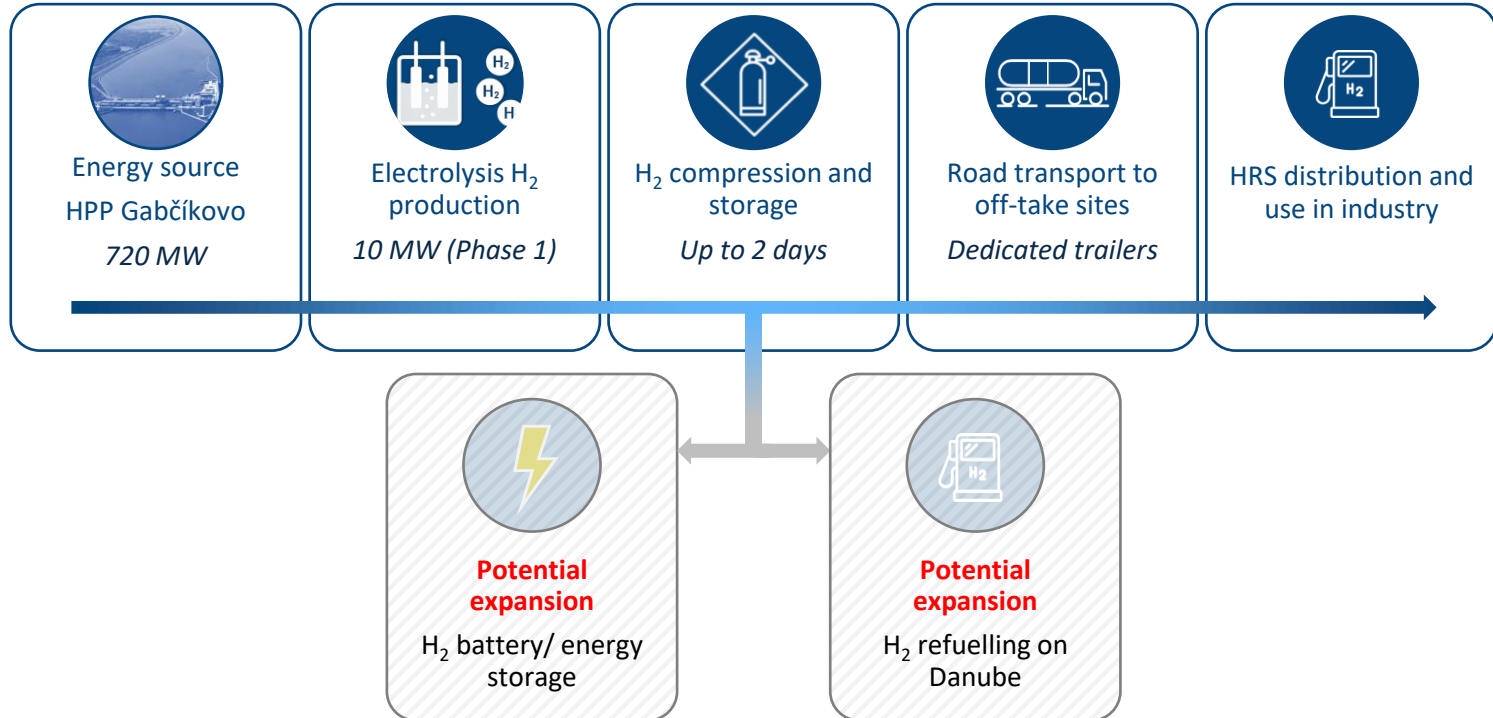
Cross-border reach

- can serve Slovak demand and connect regional initiatives



The Gabčíkovo hydrogen value chain

A full value-chain concept



Target demand segments

Where hydrogen adds value and full electrification is hard — shown as target / potential segments, not confirmed demand.



Bus & regional transport

municipal and regional fleets



Heavy-duty & logistics

long-haul and fleet operators



H₂ refuelling stations

public / semi-public on key routes (TEN-T)



Industrial users

hard-to-abate process demand



Danube / waterway

future inland-transport potential



Cross-border AT-SK-HU

regional hydrogen valleys & corridors

REGIONAL ROLE

A regional hub – not just a local project

- **Local refueling**
 - at or near the production site
- **External distribution**
 - to transport, logistics and industry demand points
- **Cross-border links**
 - to Hungarian and Austrian H₂ initiatives
- **Danube corridor**
 - future strategic distribution opportunity
- **Hub-and-spoke model**
 - pragmatic for early-stage H₂ logistics



What is prepared – and what comes next



Already prepared

- ✓ Technical & safety feasibility basis
- ✓ Location & infrastructure concept
- ✓ Value-chain & distribution concept
- ✓ Preliminary implementation logic



Next steps

- Demand & offtake validation
- RFNBO certification pathway
- Project documentation & permitting
- Technology & EPC partner selection
- Cross-border collaboration

PARTNERSHIP

What we are looking for



Thank you for your attention!

A functioning cross-border hydrogen value chain around Gabčíkovo

- ✓ Strong renewable energy foundation
- ✓ Strategic location for SK, HU & AT



*We are not only
presenting a hydrogen
project*

*We are building a cross-
border hydrogen value
chain.*