
GIE
Gas Infrastructure Europe
GIETALK
Electricity & Gas
Common Project
GIE
Annual Conference
2026
22-23 October
LJUBLJANA
INFRASTRUCTURE FOR A NET-ZERO EUROPE
hosted by
Plinovodi
Connected through energy

GIETALK

Electricity & Gas
Common Project





Uroš Salobir

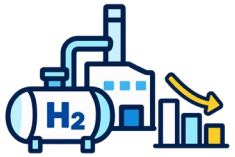
Marta Svoljšak Jerman

ELES

Plinovodi
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Hydrogen sector in Slovenia

Limited commercial deployment despite planned infrastructure



Limited demand and production

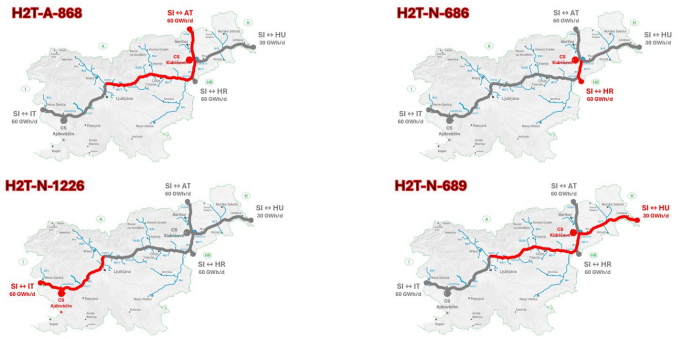


Limited availability of renewable electricity



Evolving legislation and regulation



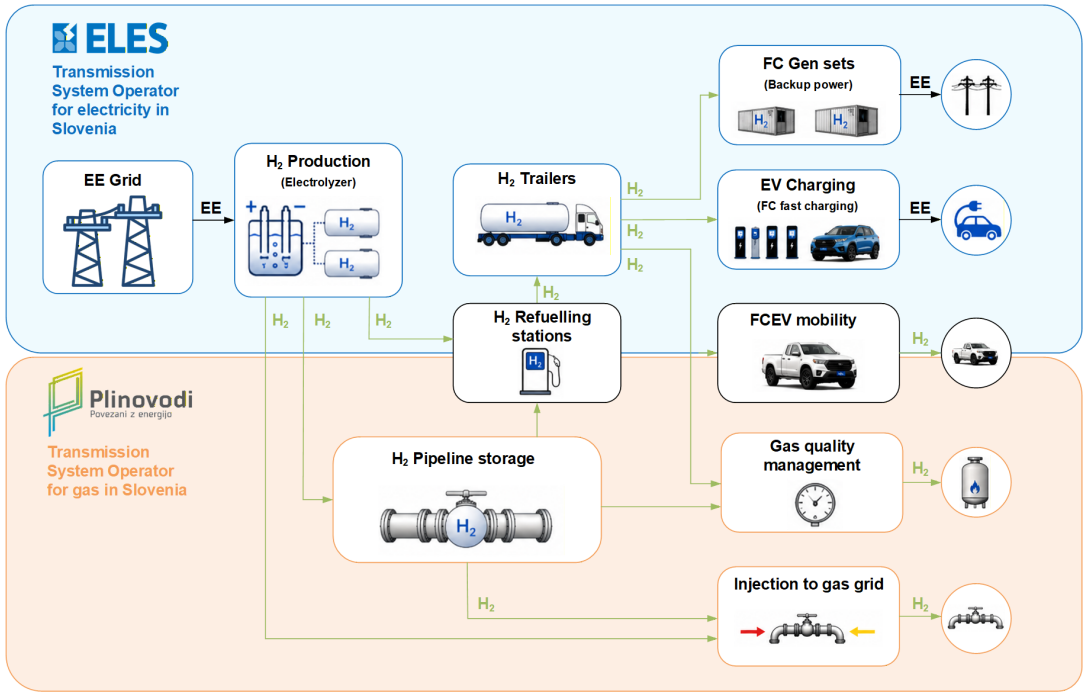


Infrastructure for a net-zero Europe

A Different Approach: Joint TSO Initiative

Hydrogen deployment driven by existing energy-system needs

Joint project between the gas and electrical TSOs - innovative approach in the European context





Main focus on ciritical infrastructure resilience and flexibility

Infrastructure for a net-zero Europe

Hydrogen facility location selection

Designing for operational flexibility and future expansion



Proximity to existing gas and electricity infrastructure



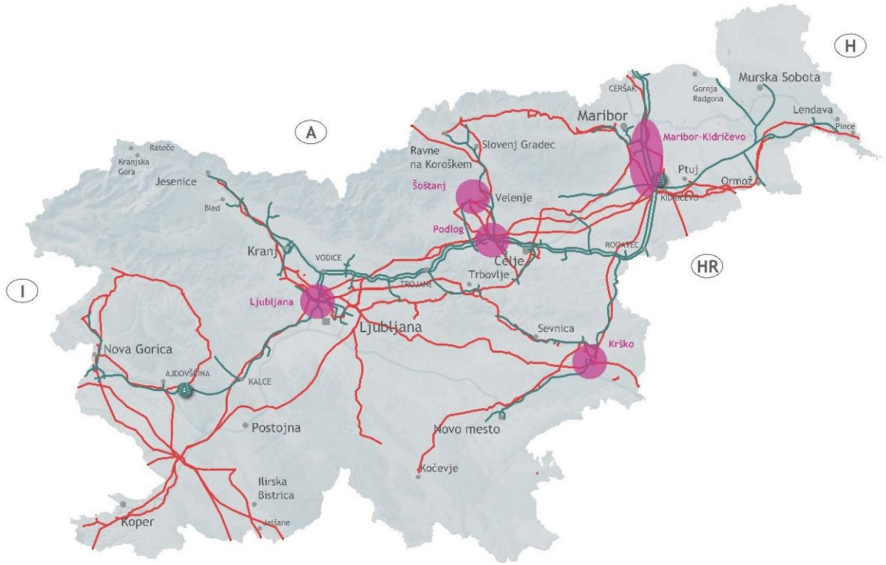
Proximity to planned hydrogen infrastructure

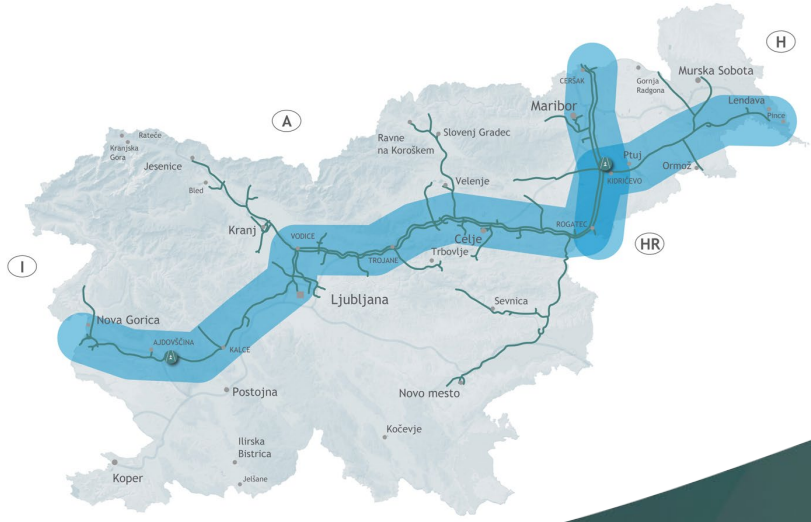


Land ownership



Scalling-up potential



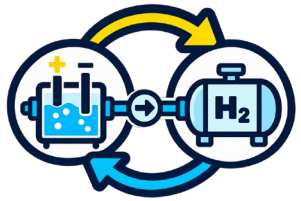


Infrastructure for a net-zero Europe

Beyond the Demonstration: Building a Hydrogen Ecosystem



Regulatory sandbox



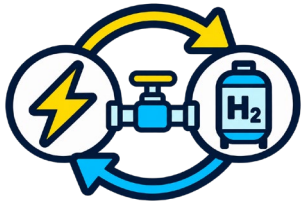
Operational experience



Promotion of hydrogen use-cases



Technology demonstration



Flexibility assessment

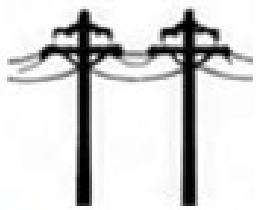


Critical infrastructure resilience

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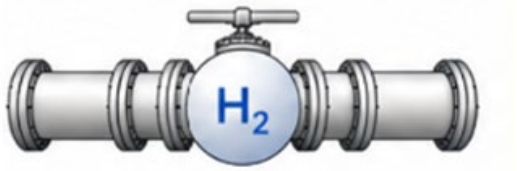


FC Gen sets

(Backup power)



H_2 Pipeline storage



BASIC CAPABILITY

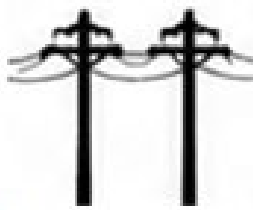
48+ hours distribution grid autonomy:

-more efficient and affordable than chemical batteries

-cleaner and quieter than diesel generators

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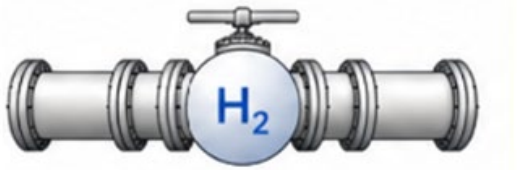


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H_2 Pipeline storage



BASIC CAPABILITY

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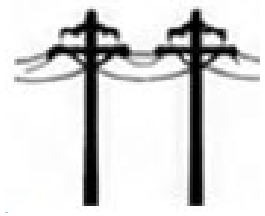
-cleaner and quieter than diesel generators

ADDITIONAL CAPABILITY

-connection request served in days instead of months/years

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BASIC NEEDS

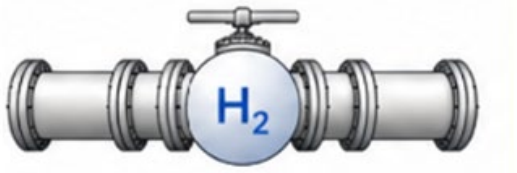
FC Gen sets

(Backup power)



-emergency electricity supply during large scale distribution grid events

H_2 Pipeline storage



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EV FAST CHARGING

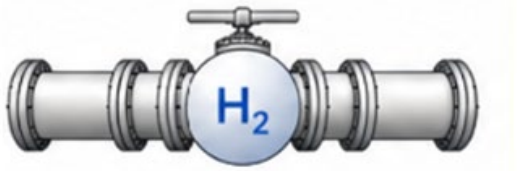


FC Gen sets

(Backup power)



H_2 Pipeline storage



BASIC NEEDS

-emergency electricity supply during large scale distribution grid events

ADDITIONAL NEEDS

-unpredictable temporal&locational demand for EV FAST CHARGING

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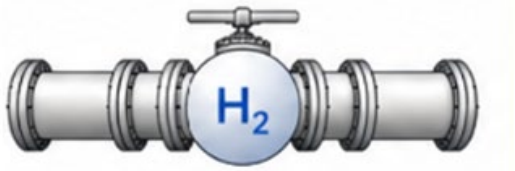
FCEV mobility



H_2 Refuelling stations



H_2 Pipeline storage



ADDITIONAL CAPABILITY

-power independent mobility (based on hydrogen, more resilient)

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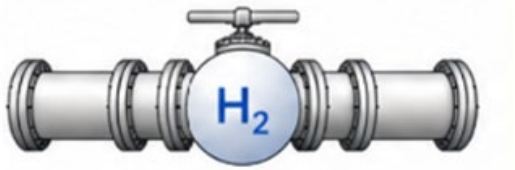
FCEV mobility



H_2 Refuelling stations



H_2 Pipeline storage



ADDITIONAL CAPABILITY

-power independent mobility (based on hydrogen, more resilient)

ADDITIONAL NEEDS

-critical infrastructure maintenance

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Main focus on ciritical infrastructure resilience and flexibility

SECTOR INTEGRATION BEYOND SECTOR COUPLING, BEYOND FLEXIBILITY PROVISION

HYDROGEN DEPLOYMENT WITH LONG TERM VALUE AND POSITIVE CBA ON TOTEX