

INTERNAL HYDROGEN INFRASTRUCTURE IN FEDERATION OF BIH IN CONNECTION WITH H2T SOUTHERN INTERCONNECTION BIH-CRO

Vienna, 18 April 2024.

TEN-E (PECI) – 2nd joint meeting of the
“Electricity” and “Gases” Groups

EXISTING TRANSMISSION SYSTEM AND PLANNED INTERCONNECTIONS IN RELATION TO ENTSOG TYNDP / PECI



ENTSOG TYNDP 2024:

H2T-A-851 Southern Interconnection BiH – CRO (H2T), and additionally Western and Northern interconnection BiH - CRO

PECI 2024:

Internal hydrogen infrastructure in FBiH in connection with H2T Southern interconnection BiH-CRO

INTERNAL HYDROGEN INFRASTRUCTURE IN FEDERATION OF BIH IN CONNECTION WITH H2T SOUTHERN INTERCONNECTION BIH-CRO



Short description:

Repurposing of the existing gas transmission infrastructure within the Federation of BiH for the hydrogen transmission:

- Zenica – Travnik and Semizovac (Sarajevo) - Zenica pipeline as a first phase
- Kladanj – Sarajevo and Visoko – Brnjaci as second one

Length/Diameter:	92 km / DN 400
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Technical Capacity (Entry/Exit)	14 GWh/day
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Expected commissioning:	2029.
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Estimated investment:	EUR 26,1 Million
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The project will assess the feasibility of using the existing natural gas system for H₂ and establish the limits of operation, as well as facilitate a transition to the hydrogen economy on a shorter timeframe.

The project ensures H₂ market integration in EnC, cross-border cooperation, investment attraction, promotion and application of hydrogen technologies in EnC.

POTENTIAL OF GREEN HYDROGEN PRODUCTION IN BIH



BIH – INSTALLED POWER

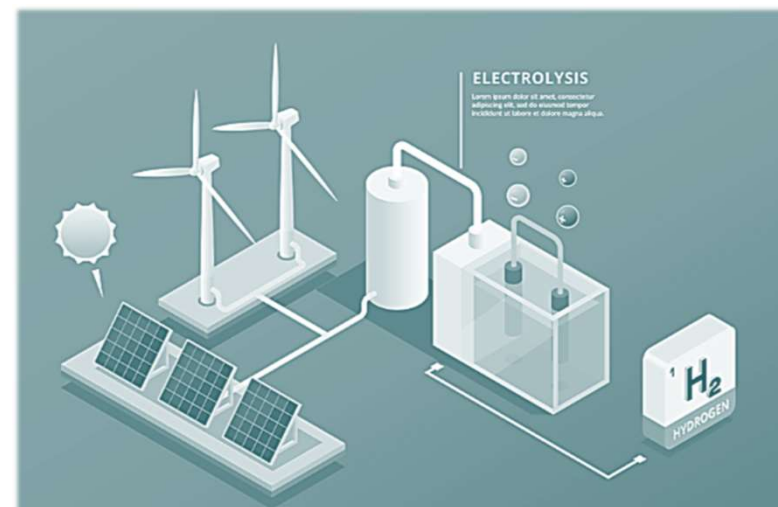
Solar PP:	212 MW
Wind PP:	135 MW

Source: Report for 2023, DERK

FBIH – ISSUED ENERGY PERMITS

	Number	Installed power (MW)
Solar PP:	1136	680
Wind PP:	20	961

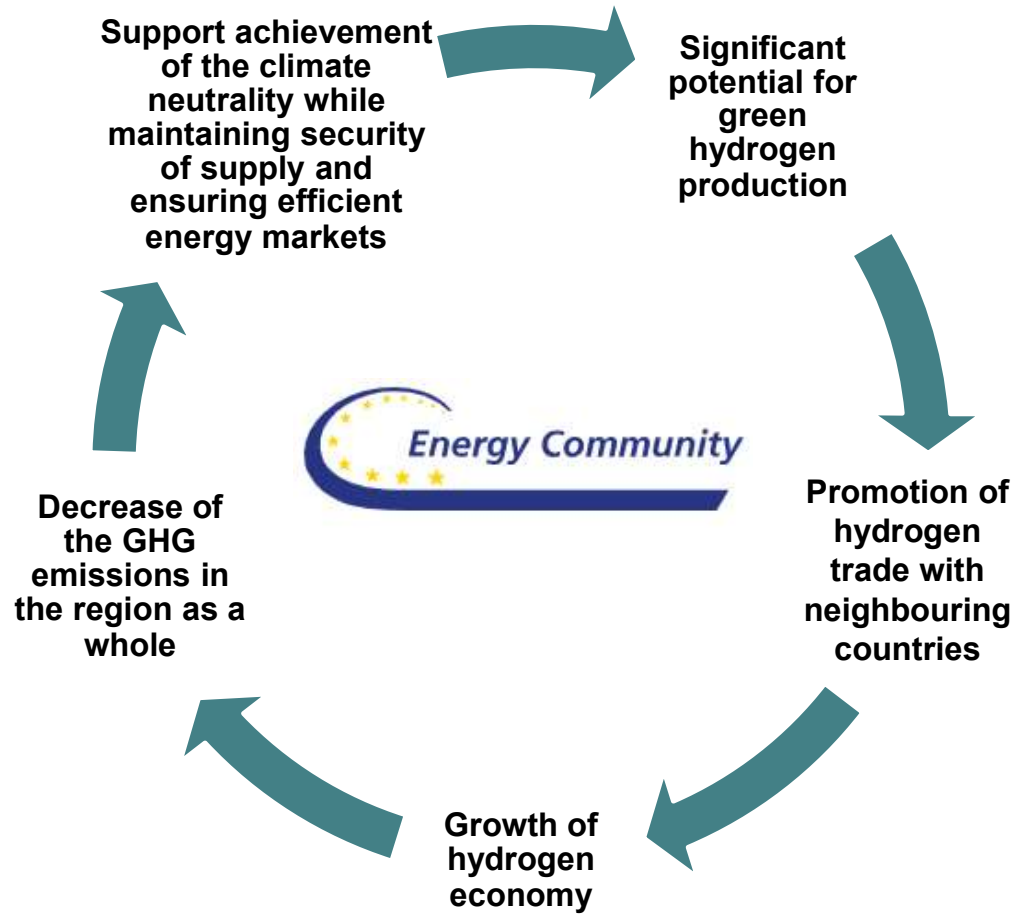
Source: Register of Energy Permits, FMERI, Dec. 2023



DRAFT NECP

- the installed power of solar and wind PP is foreseen in the total amount of about **1600 MW**, which is almost ten times more than the existing capacities.
- total power of electrolyzers to produce green hydrogen of the order of **100 MW**, which could be significantly increased in the period 2030-2050 based on the forecast of installed solar and wind PP capacities.

CROSS-BORDER IMPACT



CONCLUSION...

Project is seen as a **significant initial step for hydrogen projects in BiH** facilitating energy transition from coal based to carbon zero economy but also providing the potential spill-over effects and overall synergies between EnC Contracting parties



Source: <https://www.acer.europa.eu/>

THANK YOU FOR
YOUR ATTENTION!

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