



Status-quo of Hydrogen Utilisation in NG COM Member Countries

Roundtable input by Hungary N. Daniel Vig MEKH



Policy Level: Hungary's National Hydrogen Strategy (2021)





• 240 MW electrolyser capacity**

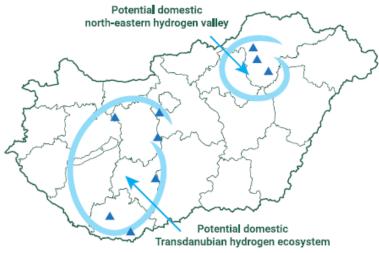
- "green"* and other carbon-free hydrogen
- avoiding the emission of 95 thousand tons of CO₂
- / 40 refuelling points
- 4.8 thousand HFC vehicle
- avoiding the emission of 130 thousand tons of CO₂

- gas system (where appropriate)

Policy level (2) – Key messages



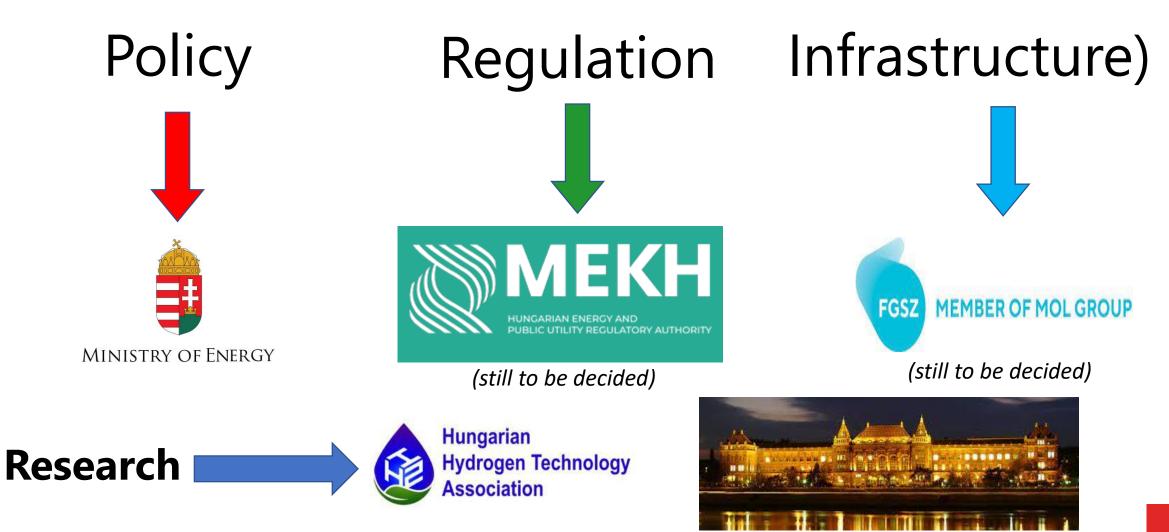
- The Hungarian government currently considers "blue"/"turquoise" H2 "low-carbon".
- For CCS a regulatory environment and support system is planned.
- PV based electrolysis centers have potential.
- •GO pertaining to hydrogen types is planned.
- Plan for two hydrogen valleys by 2030.
- 2% H2 blend is planned.



Policy Level : *Responsible institutions*

Regulatory and network operator framework is still to be decided upon

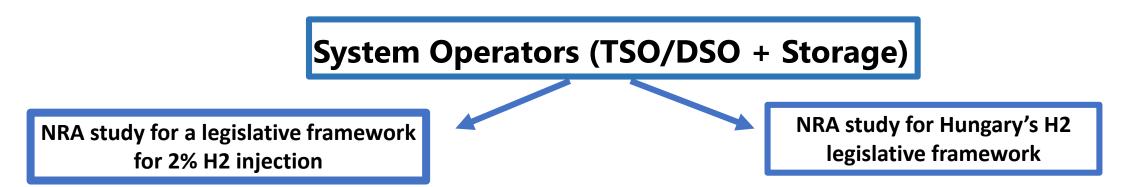




Regulatory Level



- What has been the level of exposure of the regulator towards hydrogen?
- MEKH is exposed to H2 regulation on the EU level:
 - Hydrogen and decarbonised gas market package
 - TEN-E (including PCI/PMI H2 project proposals)
 - ACER tasks



Industry/Market Level



- The most important Pilot project: Aquamarine (2024 Q2)
- The Hungarian Gas Storage Ltd is intending to implement an electrolysis system with approximately 2,5 MW total performance
- Goal is to use surplus renewable energy for the electrolysis

Mix with natural gas and use within the Gas Storage's own gas-operated equipment (and reducing its own CO_2 in this way) emission

Mix H2 with natural gas and mix into the gas transmission system

Industrial players may also supply H2: MOL, Holcim (Lafarge) and Nitrogénművek, Electron Holding (PV)





?THANK YOU??FOR YOUR ATTENTION!

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