



HYDROGEN PILOT SUMMIT

18th November 2024, Brussels

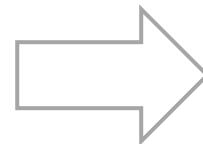
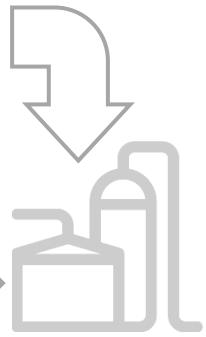
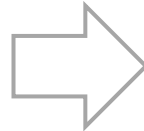
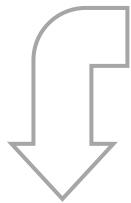


Hydrogen in the region – Innovation projects

Coordination



Importation



>50 MEur validated budget

Production

Transport, storage

Applications

HeCO₂
PoNiExpRes (*)
Endure
Helen (*)
PurifHY (*)
Osmosis
Cluedo

MaterHYum
ReadHY
HyFlow Liner (*)
Iles
Dasht(*)
Cryostress

H₂ITC
HyGuane
Restore (*)

TiNTHyN & VKHYLAB

TRL 1-4
TRL 5-8



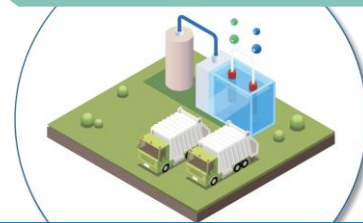
Hydrogen in the region – Industrial projects

WalHyco



- H2 production by water electrolysis (5MW)
- Wind and photovoltaic power
- Refuelling station for 22 lorries
- Actors: Colurylt, Vyri E, Spadel, AblnBEv

H2C-Mouscron



- Hydrogen production through water electrolysis
- Production of biomethane from potato waste
- 4 dual fuel trucks + 4 fuel cell trucks + 3 tractors + 3 refuse trucks
- Actors: Luminus, Mydibel Fresh

Wind2Truck W2T



- H2 production by water electrolysis (1.25MW)
- Wind power 60%, photovoltaic 30% and grid 10%.
- 10 fuel cell trucks
- Actor: Luminus

John Cockerill



- Gigafactory (1GW electrolysis production capacity)
- Development of the H2 technology value chain in the EU

Columbus



- Power to Methane: combining CO2 captured during lime production with green H2 to produce e-methane
- Actors: Carmeuse, John Cockerill

HYPSTER



- Hydrogen propulsion technologies
- Actors: Safran, Beblue, V2i, Gotech, Uliège, SIRRIS

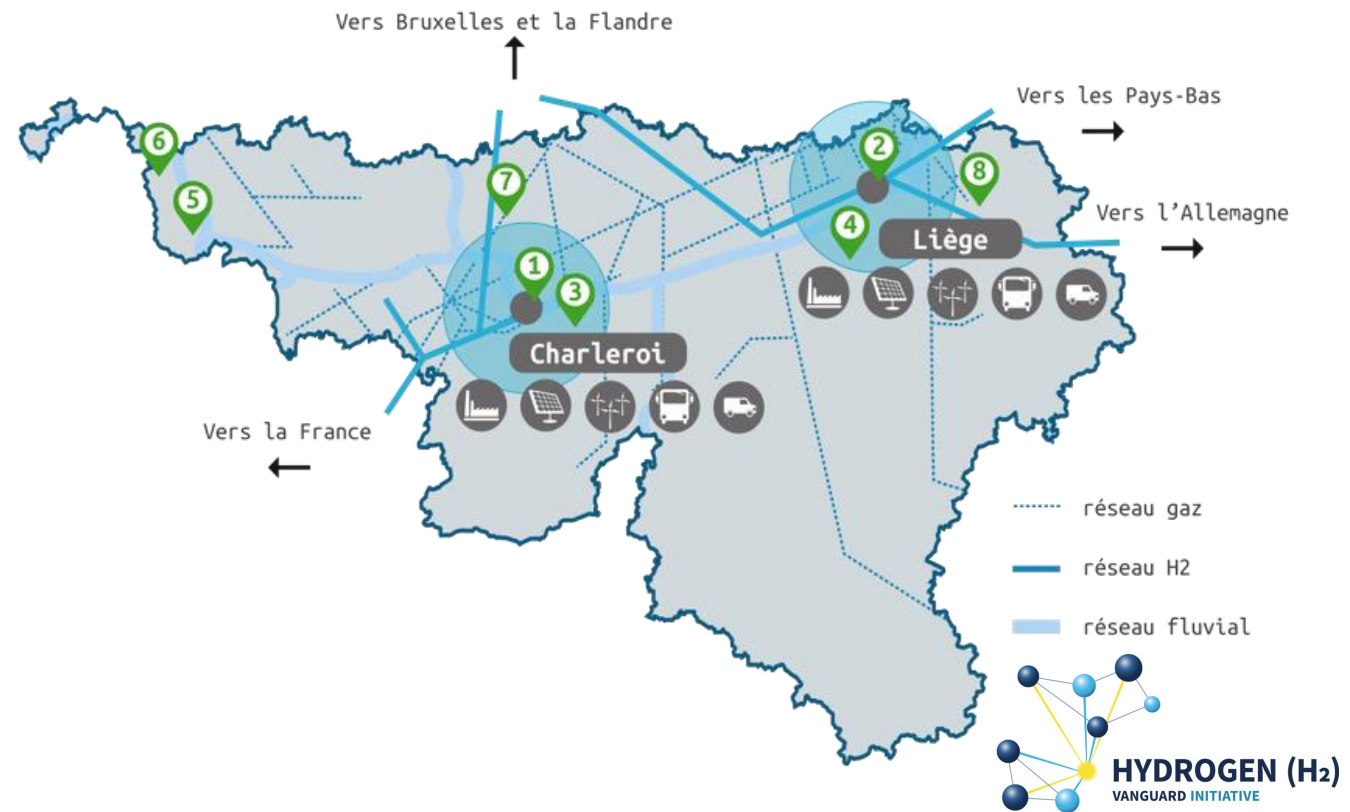
ZELLIE



- Hydrogen production Water electrolysis (5MW)
- 1 H2 barge + 1 fuel cell barge
- Vyria, Eoly E, Renory

H2 best practices

- **Difficulties** to finalize these projects because of business cases
 - Need of **CAPEX and OPEX supports**
 - Larger projects to have **economies of scale**
=> **combine different actors/projects to develop a hydrogen valley**
- The **Walloon region** has the ambition to become a **hydrogen valley**
- May 23, walloon government validates a **call of tenders**
 - Budget: 25M€
 - Production: 1000T/an
 - Candidate selected but not yet validated by the government
- **Participate** to the **next call** of the Clean Hydrogen Partnership



Region's needs & offer

- On innovation

- Many projects in wallonia => a collaboration with our neighbouring countries on similar and complementary expertises is helpful.
- The belgian expertise on research in hydrogen is available on the Belgian Hydrogen website

<https://www.belgianhydrogencouncil.be/academic-research/>

- On infrastructure

- The pipeline could pass through wallonia and be distributed to Germany, Luxembourg, France and Netherlands
- To improve the chance of having a pipeline, we must develop attractive projects on the use of hydrogen



Proposal for collaboration

- Many projects in wallonia => a collaboration with our neighbouring countries on similar and complementary expertises is helpfull.
- Collaboration with neighbouring countries to build the walloon hydrogen valley
- You can **meet e-WallonHy** and the **Belgian Hydrogen Council** at our stand in Brussel Expo: **Hall 11 C60**



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