



Grande Region
Hydrogen

Unsere Energie.
Notre futur.

Grande Region Hydrogen E.E.I.G.
2, Domaine du Schlassgoard
L-4327 Esch-sur-Alzette
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TOWARDS AN EU ROADMAP FOR HYDROGEN VALLEYS

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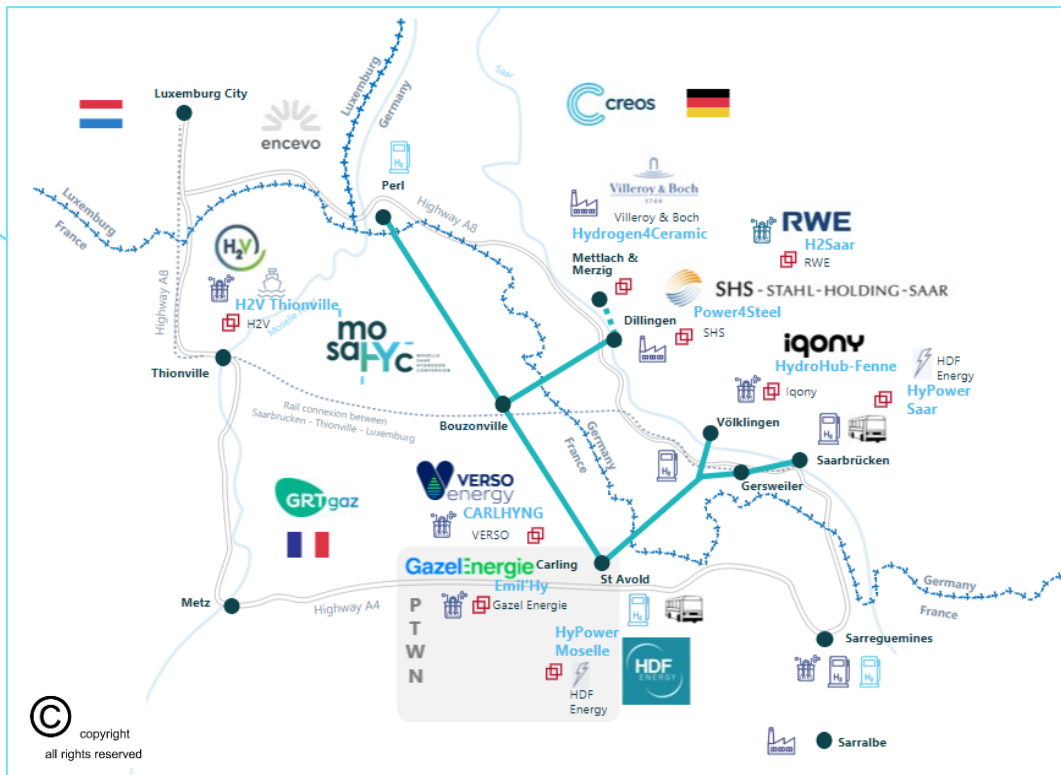


Grande Region Hydrogen

*Our European Economic Interest Grouping (EEIG) aims to develop and support a **renewable hydrogen ecosystem** on an unparalleled scale so far, available for all in the “Grande Region” made up of Saarland and Rhineland-Palatinate in Germany, Lorraine (Grand-Est) in France, and the Grand Duchy of Luxembourg. The “Grande Region Hydrogen” is composed of **interconnected projects** that are relying on each other. This **fully integrated energy system** will help **balance hydrogen production and consumption**, by connecting **hydrogen valleys in Europe**. Furthermore, it will foster synergies to develop the **whole value chain** of the hydrogen market...*

Grande Region Hydrogen: a crossborder H2 ecosystem

Objective: to promote a hydrogen economy along the entire value chain









11 Members
along the value chain

In 2027, **450 MWe of production capacity**

Repurposed & new pipeline: 55 000t of transported H₂/y

Integrated into **hydrogen european development plan**

980 000t/y
of CO₂ avoided by 2030

-  H₂ station
-  Potential H₂ station
-  Power-to-Gas unit
-  Industrial consuming H₂
-  H₂ to power
-  Key Partner



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Bottom up approach & European energy integration



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GRH EEIG
founded by
CREOS,
GRTgaz,
Encevo,
H2V

Wave of new
GRH
members:
Gazel
Energies,
Steag, SHS,
HDF

Wave of new
GRH members:
Villeroy &
Boch ; VERSO
Energy ; RWE

Commissioning
common objective
for GRH projects



2019

2020

2021

2022

2023

2027

Green Deal

Carbon
Neutrality by
2050

Treaty of Aachen

Industrial
cooperation,
investments
(IPCEI)



EU Hydrogen Strategy

Creation of an
international H2
ecosystem to
scale up
production &
infrastructure

Pentalateral Energy Forum

Fit for 55

-55% CO₂eq by
2030

Renewable Energy Directive

Production &
Import 5.6 Mt

Franco- German Council of Minister

RepowerEU

Production &
Import of 10 Mt
H2 by 2030
(+45%
Renewables)

Joint declaration on energy solidarity



60th anniversary of Elysee Treaty



Carbon Neutrality



"a common strategic roadmap to develop large-scale hydrogen production and build a resilient European hydrogen market based on the strength of local production and the sustainability of necessary imports."



Grande Region Hydrogen



Pioneer

A **first of its kind initiative** willing to share information, shape a common vision & frameworks

Non-profit organization

Open to new parties sharing the same interests



Nucleus of European energy transformation

A crossborder H2 **pipeline** grid enabling investments in H2 **production via electrolysis** & gigafactories, **industrial consumption** (e.g. DRI for steel production), **mobility** services

Reindustrialization & Decarbonization of the Grande Region



Chicken & Egg Dilemma solved

Common objective for projects **commissioning** in 2027

Powerful investments

Applied for funding programs (CCfD, CEF, CEAG) & promoted as **IPCEI**



Project status



- **Common vision:** Projects along the entire value chain will go into operation **from 2027 and H2 ramp-up** will then start



- The projects are at an **advanced planning stage**



- The projects applied to **different financing concepts** (e.g. funding from various European and national programmes like IPCEI, CCfd or Ademe)



- After approval of the funding from the various programmes, a **final investment decision** is expected for the majority of projects in the second half of **2023**





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THANK YOU !

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