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H2MA

The evolution of CLEAN HYDROGEN

Perspectives from
production to use
in mobility and
industry

29th of October 2025
Venezia Heritage Tower
(Marghera, Venice)



Hydrogen production and use in *Grand Est Region* (France)

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Grand Est Region Key challenges

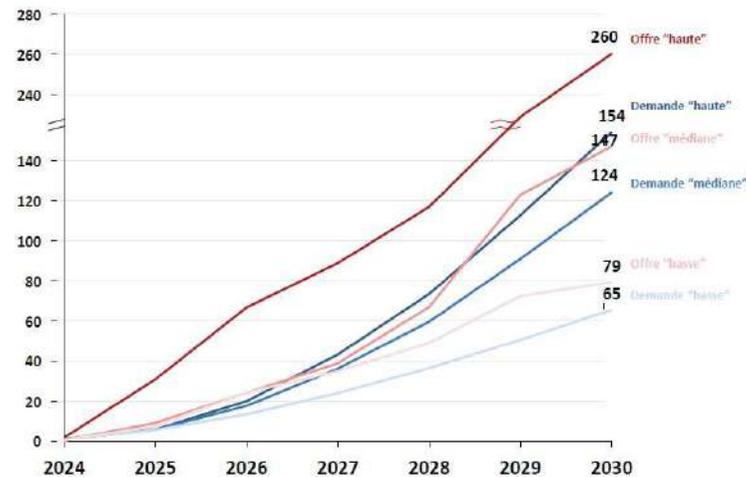


➤ Achieve the ambitious objectives defined in regional H2 strategy

The roadmap includes:

- The deployment of **5 massive production units** (600MW electrolysis, 90 000 t/y in 2030, dedicated pipelines and storage)
- The commissioning of **30 refueling stations, 700 bus, 120 trucks/household garbage dumpster, 100 barges, 3 trains bi-mode**

Evolution de l'offre et de la demande d'hydrogène vert* jusqu'à 2030 en Région Grand Est (en kt d'hydrogène)



Données clés relatives à la production et des usages à horizon 2030

Une demande projetée de **124kt** d'H₂ en Grand Est

Une production identifiée à date de **147kt** caractérisée par un mix d'H₂ renouvelable et décarboné avec **40% d'H₂ renouvelable** identifié à date

Environ **40 projets** identifiés couvrant l'ensemble de la chaîne de valeur H₂

Current state of development

Grand Est Hydrogen Strategy Sep.2025 update

Deployment of the hydrogen sector slower than expected

- Prioritisation of use in industry and in the construction of transport networks.
- In terms of mobility, reorientation towards hydrogen production for sustainable aviation fuels (SAF)

Projects in progress

- **5 projects for mass production of H₂ by electrolysis**
 - 2 for injection into networks
 - **Emil'Hy** : 400 MW (56 kT H₂/year)
 - **Carl'Hyng** : 51 kT H₂/year
 - 1 for fertiliser production
 - **ABC Ottmarsheim** 50 MW (7 kT H₂/year)
 - 2 for the production of sustainable aviation fuels



Other ongoing projects and future outlook

4 projects for hydrogen transport via pipeline

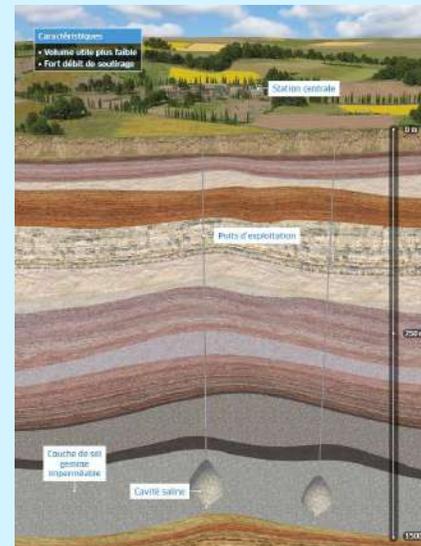
- Hy-fen
- MoSaHyC
- Rhyn
- HY₄Link



By 2030, the first regional hydrogen transportation networks will be brought into service

1 project for large-scale hydrogen storage

- StorgHyn programme



- 1 research programme for the study of natural hydrogen
 - REGALOR II (2025-2028) Drilling of a 3,500-metre well



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Thank you for your
attention

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