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Direction Générale de l'Énergie et du Climat

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UPDATE ON HYDROGEN ROLL-OUT IN FRANCE

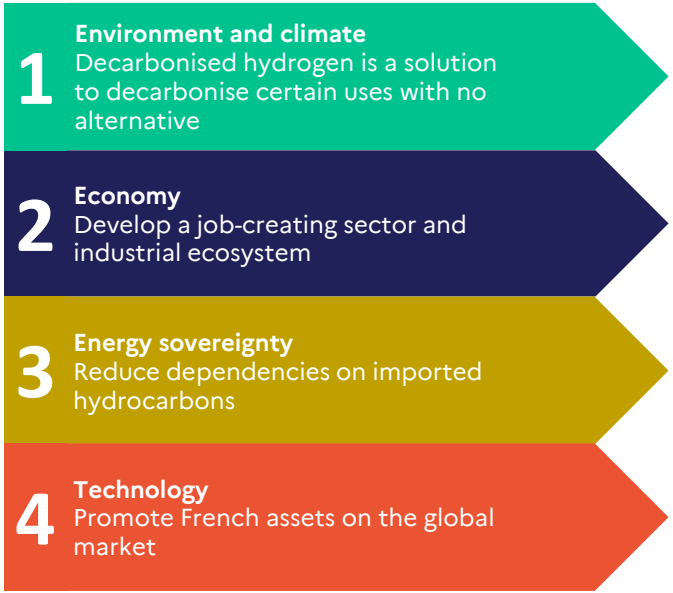
French national strategy pillars

Background

After energy savings and direct electrification, decarbonised hydrogen is part of the key solutions to reach climate neutrality

- **Replacing fossil hydrogen in industry applications**
- **Decarbonising sectors that would be new hydrogen offtakers (industry, heavy duty mobility)**

Bringing down production costs is necessary to enable these uses and decarbonation



Reaffirming an ambitious strategy

Goals

1. Decarbonise hydrogen for industrial applications and ramp-up of the market
2. Prepare tomorrow's uses: fundamental research, financing large pilots, development of key components
3. Deploy a more mature sector with dedicated tools

France reaffirms its ambition to produce low-carbon hydrogen by water electrolysis

In order to secure its low-carbon supply, France will massify production on its territory by 2035

Up to 4.5 GW by 2030 taking into account updated demand and slower than initially expected deployment

Up to 8 GW by 2035 accounting for demand increase and end-use deployment

Other hydrogen sources

- Methane steam reforming with CCS is included for specific cases but not a key part of the strategy (it would require a high performance CO_2 capture process and should be limited to particular situations, e. g. industrial facility location/transport and CO_2 storage infrastructures)

- Launch of an investigation on the geological hydrogen potential in order to explore all existing possibilities

A strategy in motion

Acting through the whole value chain:

- Priority Research and Equipment Programme (PEPR) 83 M€
- "Technological building blocks and demonstrators" call for projects 350 M€
- Important Projects of Common European Interest (IPCEI) 3,08 bn€
- "Local ecosystems" call for projects (2020 – 2023) 46 projects supported
- Call for tenders for hydrogen production ongoing
- Work regarding geological hydrogen ongoing.

A key role in different sectors

Mobility

- Alternative fuel's synthesis (aviation and maritime) may require important quantities of decarbonised hydrogen

Refineries

- Biggest hydrogen offtaker in France with the possibility of an easy switch

Industry

- Different time scales for the adoption of decarbonized hydrogen
- Competitive costs issues for fertilizers, steel and chemicals

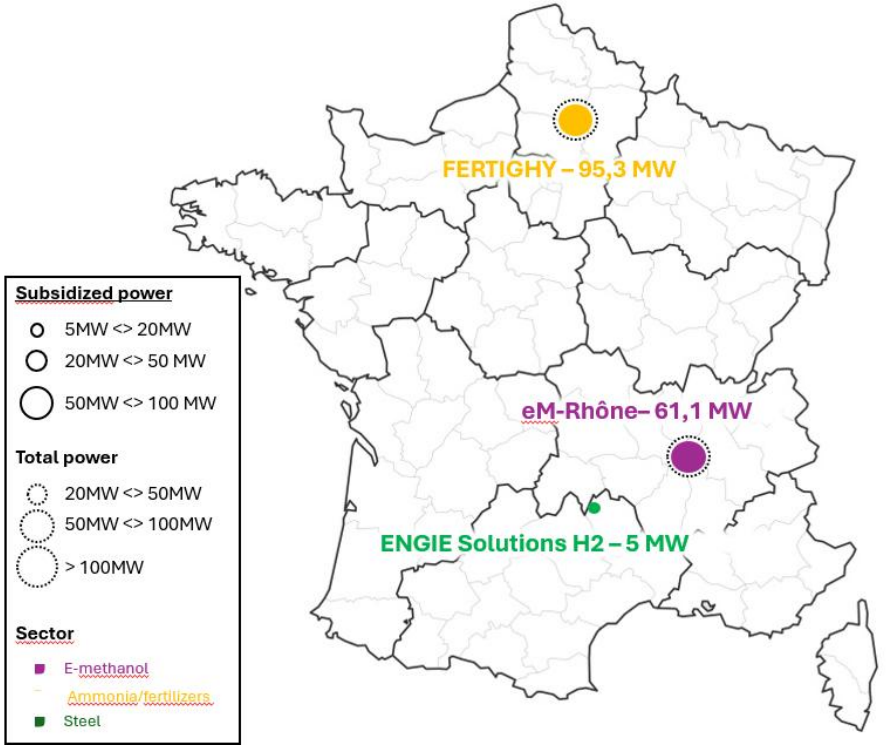
Supporting hydrogen production aimed at industry

Competitive bidding to produce low-carbon or renewable hydrogen for industrial applications.

1st round :

- → 10 candidates went through a competitive dialogue,
- → Selection phase ended in February 2026
- → 3 winners announced this summer, budget allowing to shortlist a cumulative capacity of **161,4 MW** for various industrial applications : fertilizers, steel industry and methanol production for chemistry applications
- → Contractualization phase ahead

2nd round : launched September 1st, should call a capacity of 250 MW.



Dedicated tools for the mobility sector

Incentive Tax for the Use of Renewable Energy in Transport sector (**TIRUERT**)

- Renewable and low-carbon hydrogen
- Extended to all energy carriers and majority of means of transportation
- An evolution to provide long term visibility necessary for projects with significant investment like hydrogen.

Carbon intensity reduction incentive for transport uses (**IRICC**)

- Should replace the TIRUERT in the future, legislative process underway (proposed in the budget)
- Better visibility for investors and project leaders thanks to a long-term trajectory of GHG emissions reduction imposed to fuel suppliers, who are the obligated parties
- Dedicated obligations per energy vector, including low-carbon or renewable hydrogen

Development of hydrogen hubs in the main industrial areas

Hydrogen transport and storage infrastructures may provide flexibility to the power grid

Only one level of hydrogen networks are considered in France for hydrogen

Gas package transposition (still in progress, slower than expected parliamentary works) will set the hydrogen infrastructures regulation

The French energy NRA will be granted prerogatives on hydrogen



Recently reaffirmed cooperation at the highest level

Germany and France are working together closely to prepare for the future and put Europe back on track for growth.

Franco-German engine to work at the international, the EU and the bilateral level and towards joint initiatives and coordinated positions

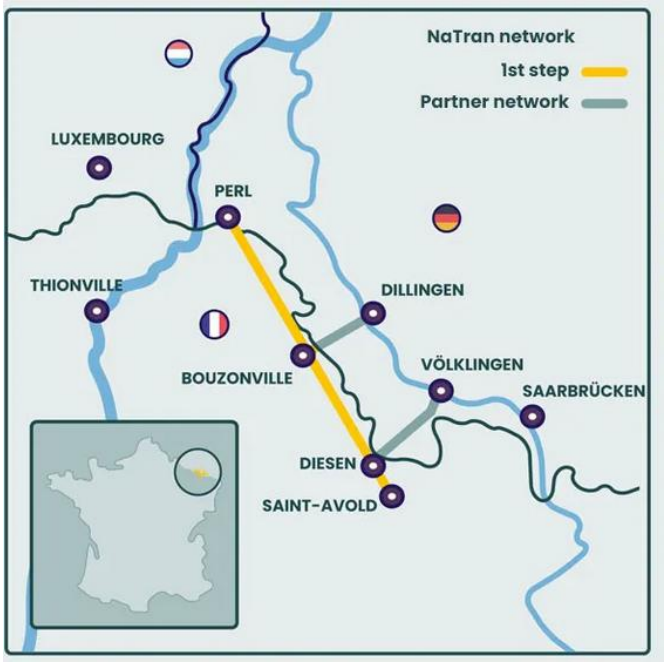
Energy was part of the discussed agenda.



Franco-German Council of Ministers in Brühl, July 16th, 2026

Already existing cooperations

- MosaHyc pipeline linking the "Grande Région hydrogène" Between Saarland and Moselle (promoted by CREOS and NATRAN)
- Verso Energy will supply Saarland's steel industry with RFNBO hydrogen produced in CarlHyng electolyser through the pipe.
- Research partnerships already in place.



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THANK YOU FOR YOUR ATTENTION!

VIELEN DANK FÜR IHRE AUFMERKSAMKEIT!

MERCI BEAUCOUP POUR VOTRE ATTENTION !

General Directorate for Energy and Climate