HYDROGEN IN FRANCE

ADVANCING TOWARDS A NET ZERO FUTURE

Rogerville (Seine-Maritime)

Qair to invest €500 million to develop an e-methanol production site in the port of Le Havre | Nov. 4

Rogerville (Seine-Maritime)

Air Products is awarded a part of the site West A29 in the industrial area of Le Havre | Nov. 8

Saint-Agnan (Charente-Maritime)

Voltaero inaugurates its new industrial facility, aiming to produce 150 electric-hybrid propulsed Cassio airplanes annually there | Nov. 8

La-Roche-sur-Yon (Vendée)

La-Roche-sur-Yon orders two hydrogen buses from IVECO BUS, to be delivered in the second half of 2025 | Nov. 22

Les Sables-d'Olonne (Vendée)

Teréga supplies the Village Vendée Globe with hydrogen for its energetic needs | Nov. 6

Les Sables-d'Olonne (Vendée)

The ship supplied with renewable hydrogen by Lhyfe as an emergency power supply leaves for the Vendée Globe | Nov. 13

Saint-Chély-d'Apcher (Lozère)

Genvia and ArcelorMittal sign a demonstrator contract to introduce green hydrogen into the steel production | Nov. 4

Port-la-Nouvelle (Aude)

Höegh Evi to partner with the port of Port-la-Nouvelle to develop a floating terminal for hydrogen imports | Nov. 5

Port-Jérôme (Seine-Maritime) and Ile-de-France

Air Liquide signs a contract with HysetCo to supply up to 3 000 tonnes of renewable hydrogen per year to develop low-carbon mobility along the Seine axis | Nov. 15

Clermont-Ferrand (Puy-de-Dôme)

Clermont Auvergne Métropole welcomes four hydrogen buses retrofitted by GCK Mobility and a new one by Solaris | Nov. 22

Marolles (Marne)

Haffner Energy launches its hydrogen production, testing and training site | Nov. 22

Valence (Drôme)

Hympulsion and Hyliko open a new hydrogen refuelling station | Nov. 15

Etrez (Ain)

HyPSTER injects its first hydrogen molecules into a salt cavern | Nov. 6

Saint-Fons (Rhône)

Symbio starts the pre-production of 40kW fuel cells for light-duty vehicles, with a future focus on off-road vehicles planned | Nov. 11

Fos-sur-Mer (Bouches-du-Rhône)

H2V and Hy2gen sign a strategic partnership to supply the Marseille airport with e-kerosene | Nov. 21

Fos-sur-Mer (Bouches-du-Rhône)

Solaris deploys a hydrogen bus in Fos-sur-Mer | Nov. 6

La Mède (Bouches-du-Rhône)

Air Liquide and TotalEnergies join forces to produce 25,000 tonnes of renewable hydrogen for biodiesel and SAF | Nov. 25

Bastia (Haute-Corse)

French first hydrogen-electric powered fishing training vessel is inaugurated | Nov. 15

NOVEMBER 2024

Monthly News & Highlights

Non exhaustive list of news (projects, contracts, investment, partnership, etc.) in France published between the first and the last day of the month

France Hydrogène
Engagée pour la transition écologique

HYDROGEN IN FRANCE

ADVANCING TOWARDS A NET ZERO FUTURE

Also in the news

Partnerships

Mergers and acquisition

Standard, certification

R&D projects

Other news

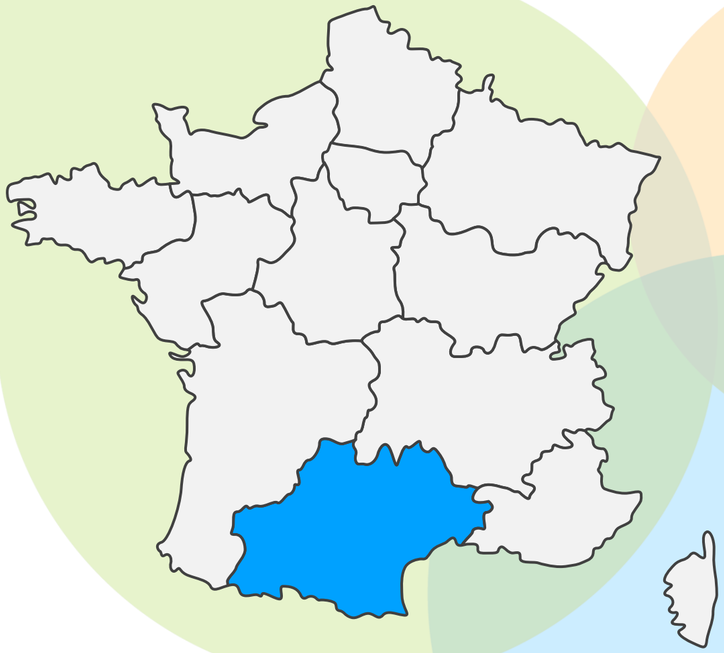
The H2med project launches its call for interest to develop the HY-FEN and HySoW hydrogen pipelines | November 7

Storengy launches a market survey to identify the needs of the market for hydrogen storage along the future French transmission backbone | November 13

NOVEMBER 2024

Monthly News & Highlights

Non exhaustive list of news (projects, contracts, investment, partnership, etc.) in France published between the first and the last day of the month



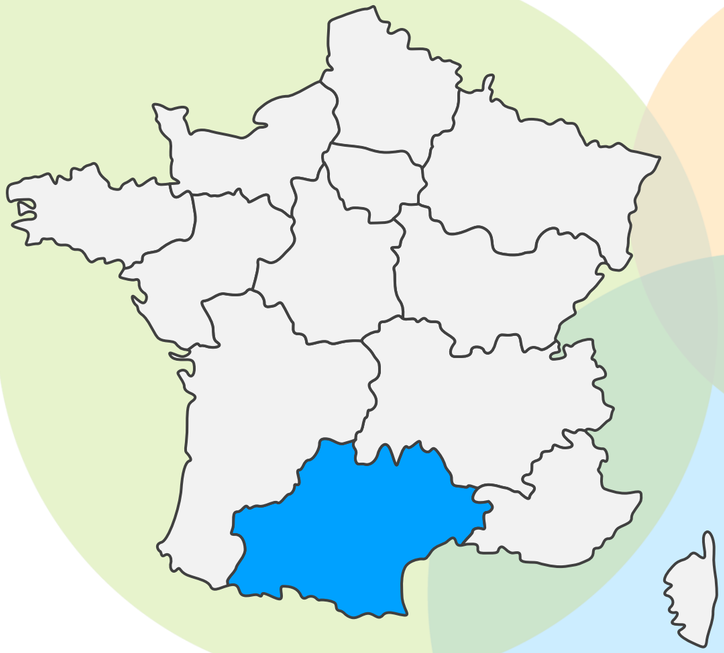
OCCITANIE

NOVEMBER 2024

“**Genvia** and **ArcelorMittal** have announced the signing of a demonstrator contract to integrate a 200kg/day of low carbon hydrogen electrolyser to the industrial processes used for the production of high performance electric steels. (...) The deployment of the Genvia SOEL200 electrolyser at the **Saint-Chély-d’Apcher** [**Occitanie**] site will, during the trial period, replace traditional hydrogen produced by natural gas reforming with low-carbon hydrogen via electrolysis.”

Source: Genvia, Press Release, November 4

France Hydrogène
Engagée pour la transition écologique



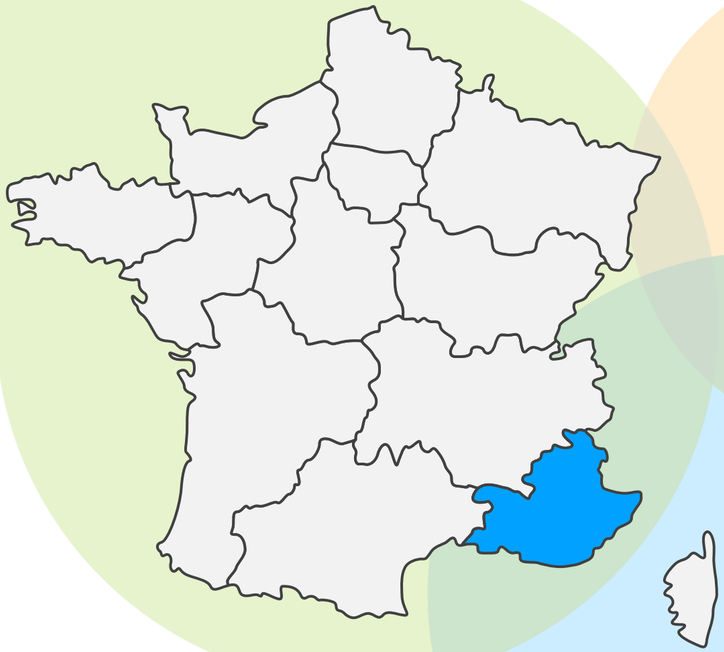
OCCITANIE

NOVEMBER 2024

“**Höegh Evi**, (…), has signed a Memorandum of Understanding (MoU) agreement with the **port of Port-La Nouvelle** [**Occitanie**] to develop a floating terminal for hydrogen imports. The hydrogen will be imported from producers located in the Middle East, North Africa and the Americas. The terminal at Port-La Nouvelle will accelerate the shift to clean energy in Europe by becoming a vital hub for importing large volumes of hydrogen. (…) The terminal will facilitate the import of up to 210,000 tonnes of hydrogen per year as early as 2030, according to the project timeline and dependent on the readiness of France’s hydrogen pipeline.”

Source: Höegh Evi, Press Release, November 5

France Hydrogène
Engagée pour la transition écologique



PROVENCE-ALPES-CÔTE D'AZUR

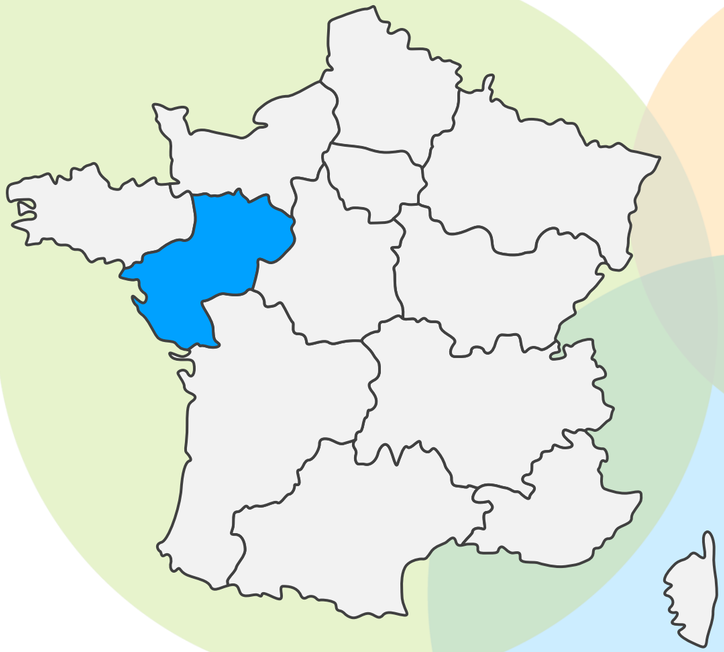
SOLARIS
A CAF GROUP COMPANY

NOVEMBER 2024

"This H2 **SOLARIS** URBINO 12 bus, which has been on the road since 21 October, ran for 10 days in real-life conditions on line 4 of the Ulysse network. It was supplied with hydrogen at the **Air Liquide** site in **Fos Tonkin** [**Provence-Alpes-Côte d'Azur**]. (...) Following this trial, based on the results measured in real-life conditions and with a supply based on local production of low-carbon hydrogen, three hydrogen-powered coaches and three hydrogen-powered buses will be running on the Metropole Mobilité Ulysse network at the end of 2025 and the beginning of 2026 respectively."

Source: Fos-sur-Mer, Press Release, November 6 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



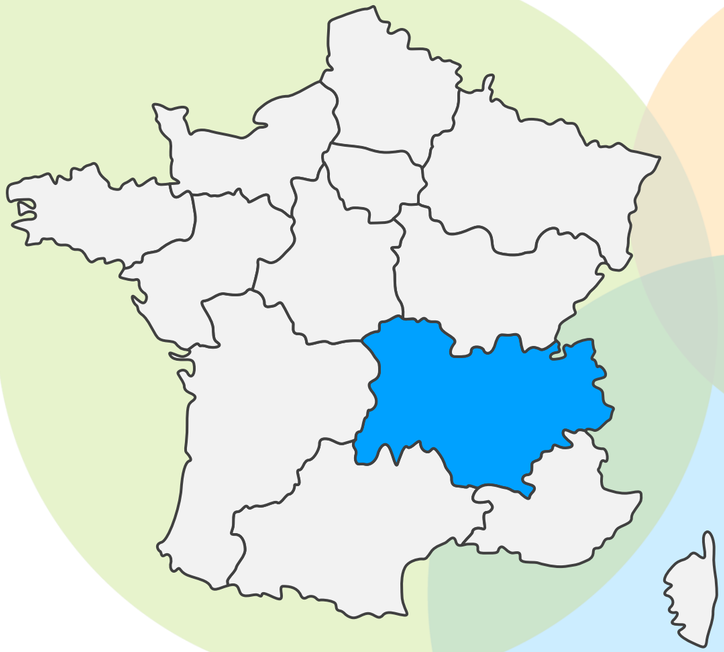
PAYS DE LA LOIRE

NOVEMBER 2024

"In order to meet the requirements of the 600 m² marquee at the partners' exhibition for the public, **Teréga**, with the help of its subsidiary **Teréga Solutions**, designed an innovative based on green hydrogen. The system includes:

- three hydrogen-powered generator sets (GEH2), each with a capacity of 110 kVA, providing electrical power that can be adjusted according to requirements,
- a 318 kVA battery pack to optimise energy distribution and manage peaks in demand,
- an expansion plate and manifold to reduce the hydrogen pressure from pressure from 380 bars to 40 bars."

Source: Teréga, Press Release, November 6 | Translated with DeepL



AUVERGNE-RHÔNE-ALPES

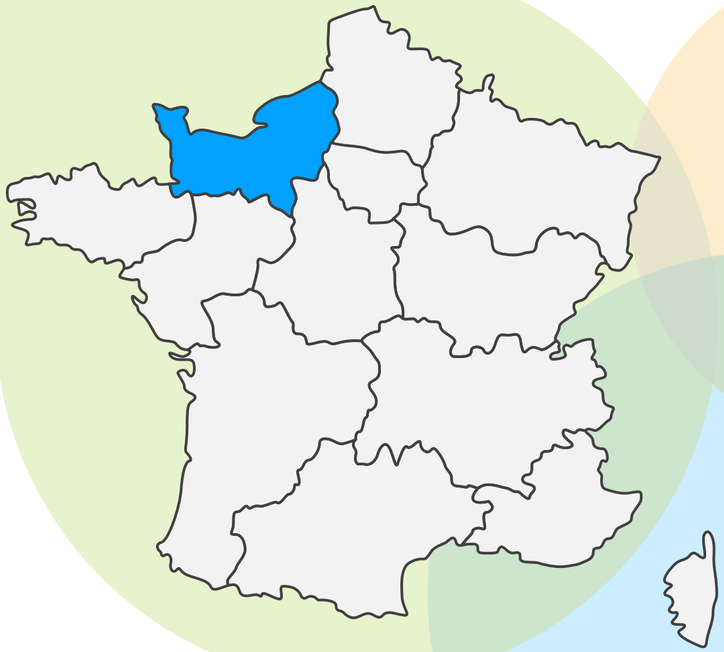
storengy

NOVEMBER 2024

“HyPSTER [developed by **STORENGY**], the first renewable hydrogen storage demonstrator in a salt cavern located in **Etrez** [**Auvergne-Rhône-Alpes**], is entering its operational phase. (...) The first hydrogen molecules were injected into the EZ53 salt cavern. (...) At the end of this leak-test phase, around two additional tonnes of hydrogen will be injected to enable simulations of hydrogen injection and withdrawal cycles to be carried out in the cavern over a period of more than three months.”

Source: Storengy, Press Release, November 6

France Hydrogène
Engagée pour la transition écologique



NORMANDIE

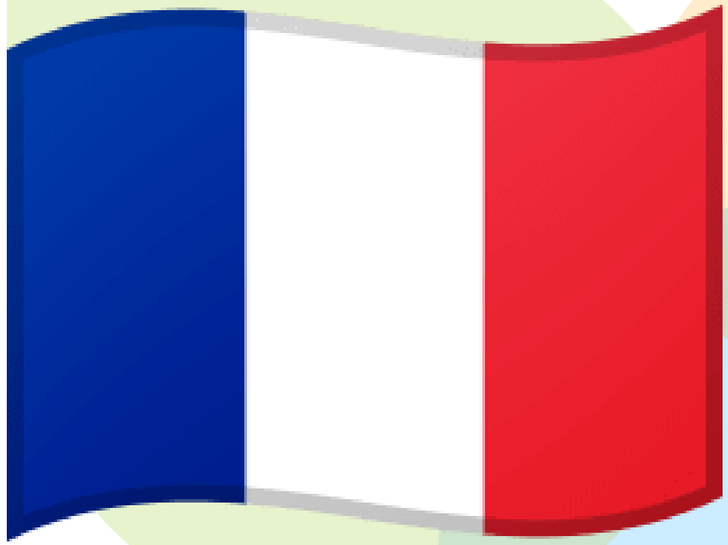
Qair

NOVEMBER 2024

“Supported by **Qair**, the Methavert project aims to set up a renewable hydrogen and methanol production unit in the heart of the industrial port area of **Le Havre** [**Normandie**]. The plant will eventually produce 200,000 tonnes of e-methanol and supply the maritime transport and industrial sectors, considered hard-to-abate sectors. (...) Qair and **HAROPA PORT** plan to work together to implement a renewable methanol value chain that will help transform the industrial port area and position the Port of Le Havre as one of tomorrow's Green Corridors for maritime transport.”

Source: Qair, Press Release, November 7 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



FRANCE

GRTgaz

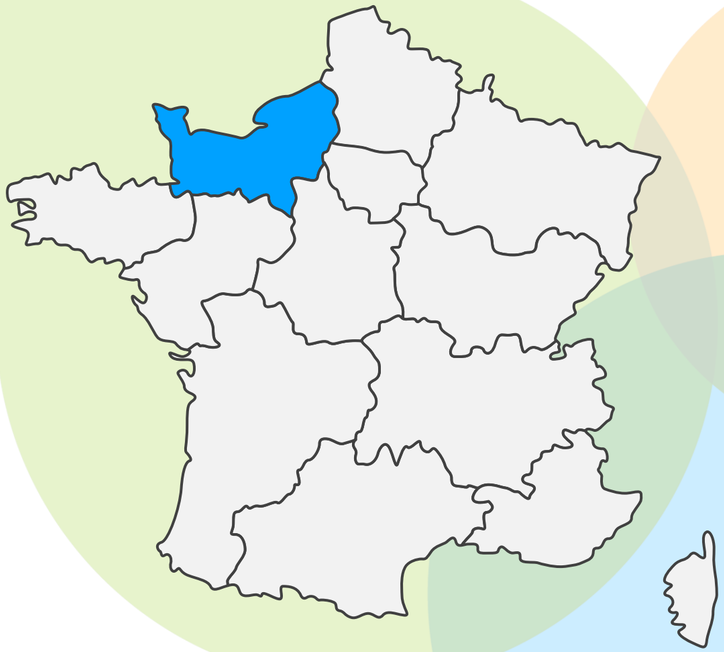
TERĒGA

NOVEMBER 2024

"The **H2med** partners [including the French companies **GRTgaz** and **Teréga**] have officially launched a Call for Interest open until the 18th of December to assess the needs of future infrastructure users across the hydrogen value chain. This initiative will help to optimise infrastructure design and establish operational requirements. (...) GRTgaz is working on **HY-FEN**, a 1,000 km hydrogen connection project running from Marseille to Obergailbach on the German border. (...) Teréga leads the Hydrogen Southwest corridor project (**HySoW**), a transmission and storage infrastructure project of 650 km."

Source: Teréga, Press Release, November 7

France Hydrogène
Engagée pour la transition écologique



NORMANDIE

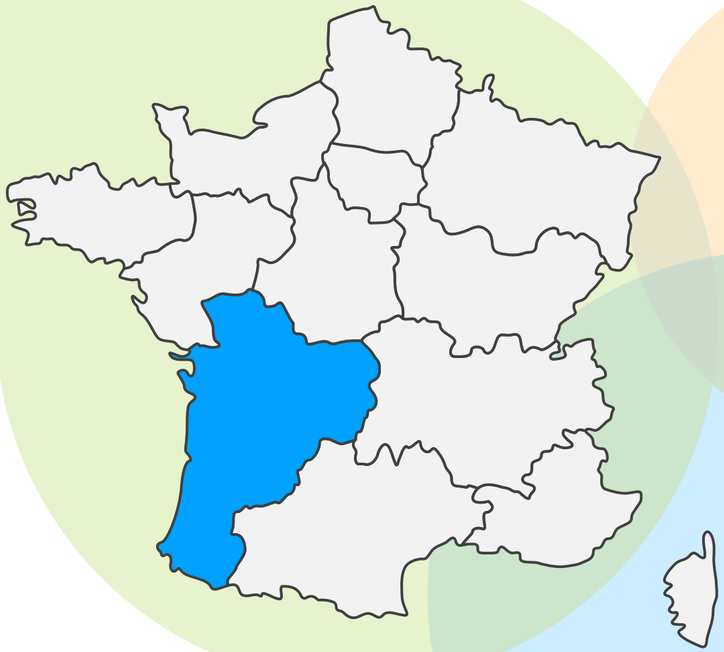
“We are very proud to be working with **HAROPA PORT** to support their decarbonisation strategy. At **Air Products**, we believe that by supplying renewable hydrogen locally across Europe, and developing the technology to do so safely, reliably and efficiently, we can collectively participate in and meet the challenge of energy transition. ”

AIR PRODUCTS

NOVEMBER 2024

Source: HAROPA PORT, Press Release, November 8 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



NOUVELLE AQUITAINE

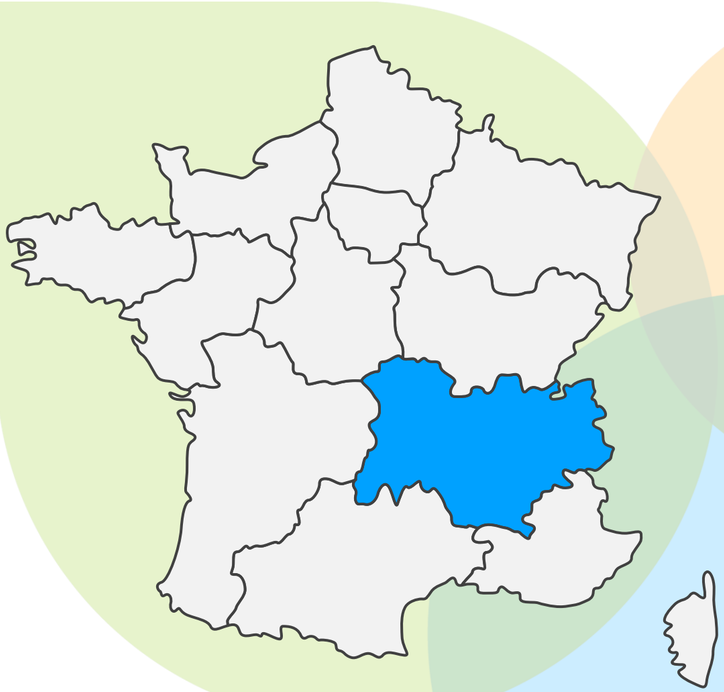
VOLTAERO

NOVEMBER 2024

"Located at **Saint Agnant** in the Charente-Maritime department of France's **Nouvelle-Aquitaine Region**, this purpose-built 2,400-square-meter facility is the primary hub for production and delivery of Cassio-family aircraft, supported by **VoltAero's** on-site design, engineering, flight test and administrative departments. It is sized for the assembly of 150 [electric-hybrid] Cassio airplanes annually at full rate, to be backed by additional production sites that are to be created in other key geographical markets."

Source: VoltAero, Press Release, November 8

France Hydrogène
Engagée pour la transition écologique



AUVERGNE-RHÔNE-ALPES

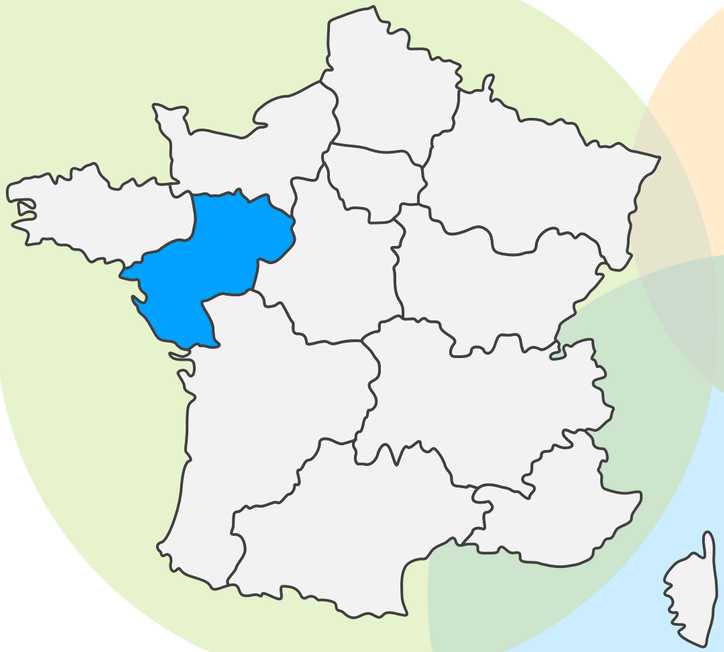
SYMBIO
A FRONT-RUNNER HYDROGEN COMPANY

NOVEMBER 2024

"**Symbio**, a national specialist in the field [of hydrogen fuel cells], plans to tackle the needs of off-road vehicles and buses and coaches next year, all of which require between 75 and 150 kW of power. Symbio is currently in pre-production on a first generation of 40 kW battery systems [in its giga-factory of **Saint-Fons**, **Auvergne-Rhône-Alpes**], designed for light commercial vehicles - currently those of its shareholder **Stellantis**. After the generation designed for coaches, buses and off-road vehicles, the company will tackle a third generation in 2026, with power ranging from 150 to 300 kW, dedicated to trucks, pick-ups, SUVs and other heavy vehicles."

Source: Le Moniteur Matériels, Article, November 11 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



PAYS DE LA LOIRE

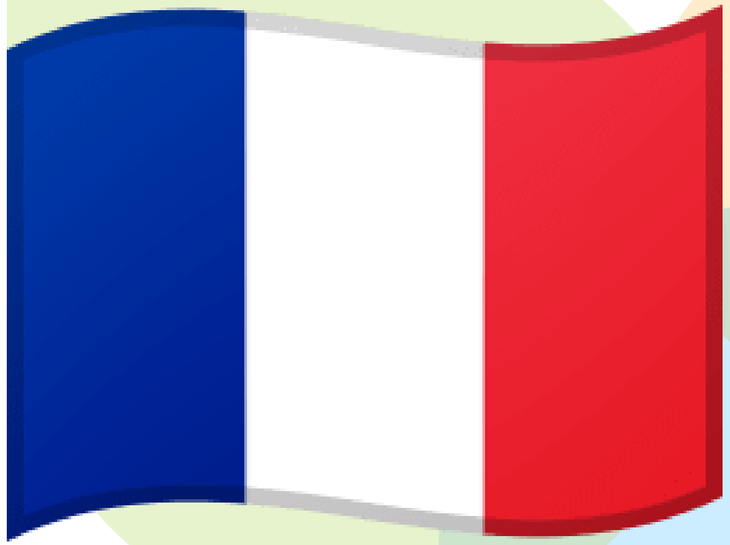
Lhyfe

NOVEMBER 2024

“Arnaud Boissières' IMOCA La Mie Câline will be supplementing her onboard power supply with a mix of renewable energies, including green hydrogen. The system takes the form of a battery the size of a suitcase and three bottles of green hydrogen (18 litres in all), produced in Vendée by **Lhyfe**. Thanks to solar panels, hydrogenerators and two wind turbines, the ship will be able to produce zero-emission electricity on board. But in the event of a problem, the green hydrogen will be able to take over in less than a minute, restarting safety equipment such as the navigation lights and radar.”

Source: H2 Today, Article, November 13 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



FRANCE

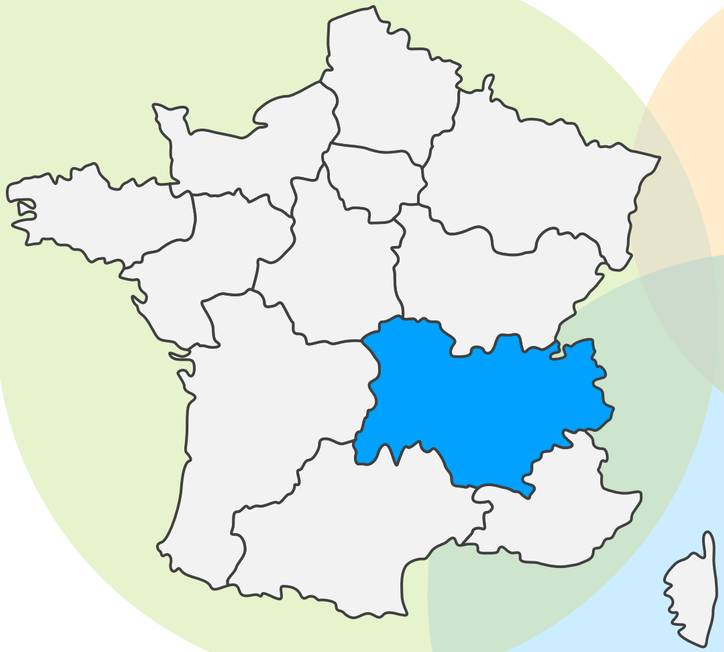
storengy

NOVEMBER 2024

“**Storengy** is launching a market survey aimed at hydrogen market players and project developers, to specify their hydrogen storage needs along the French section of the future backbone of the European hydrogen transport network. The first phase of this non-binding market survey will enable us to confirm the rate of development of demand for underground hydrogen storage solutions in salt caverns and to strengthen our understanding of the technical performance expected by the market. The information gathered will help us to size projects and carry out the technical and economic studies required for their development.”

Source: Storengy, Press Release, November 13

France Hydrogène
Engagée pour la transition écologique

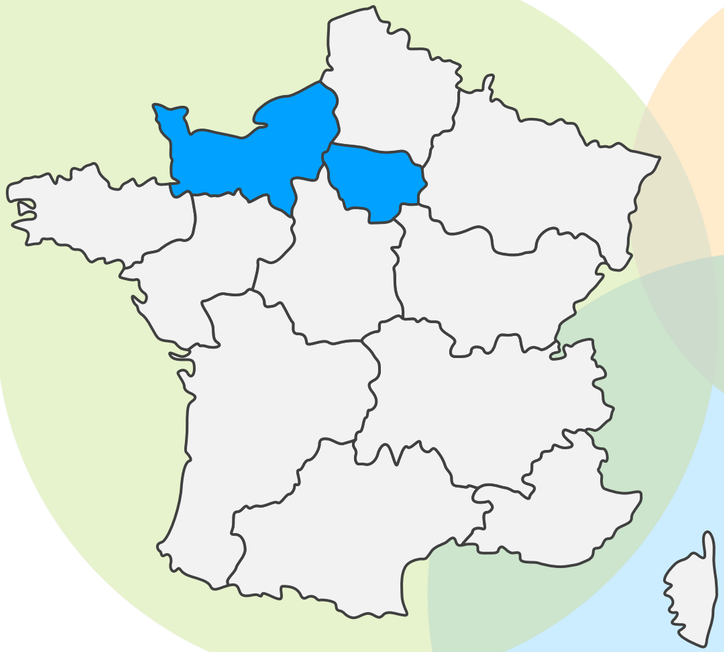


AUVERGNE-RHÔNE-ALPES

“**HYmpulsion** inaugurates its 7e hydrogen station on 15 November in **Valence** and announces a business partnership with **Hyliko** [to accelerate the deployment of heavy-duty vehicles]. HYmpulsion is continuing to develop its network of more than 15 hydrogen stations in **Auvergne-Rhône-Alpes** with the opening of its new station in Valence.”

NOVEMBER 2024

Source: Hympulsion’s LinkedIn, Post, November 15 | Translated with DeepL



NORMANDIE AND ÎLE-DE-FRANCE

Air Liquide

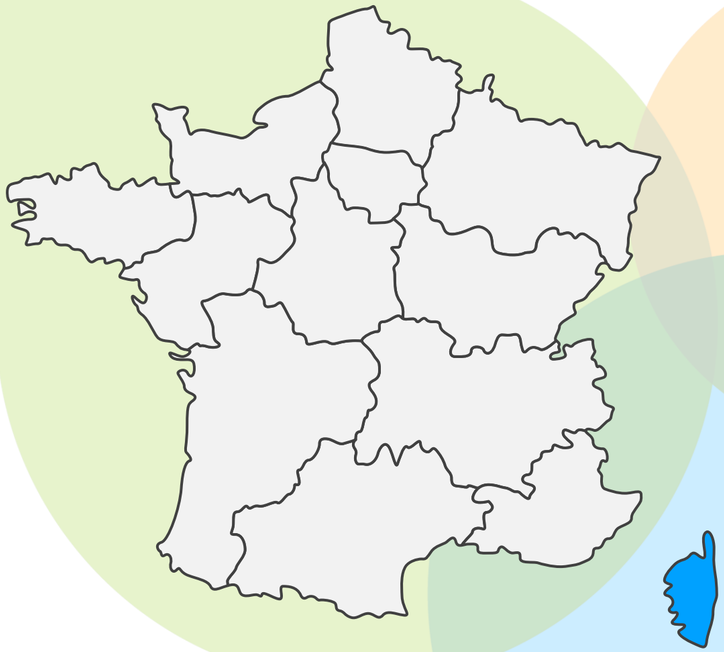
Hysetco

NOVEMBER 2024

“Pursuing the development of its low-carbon hydrogen ecosystem in the Normandy industrial basin, **Air Liquide** will invest 50 million euros in a new hydrogen packaging and delivery supply chain to refueling stations along the Seine Axis, to support the acceleration of low-carbon mobility. The new packaging site will be supplied with renewable hydrogen from the Air Liquide Normand’Hy electrolyzer with a capacity of 200 MW currently under construction.” “**HysetCo** and Air Liquide announce the signing of a renewable hydrogen supply contract. The contract will eventually supply up to 3,000 tonnes of hydrogen per year.”

Source: Air Liquide and HysetCo, Press Releases, November 15

France Hydrogène
Engagée pour la transition écologique



CORSE

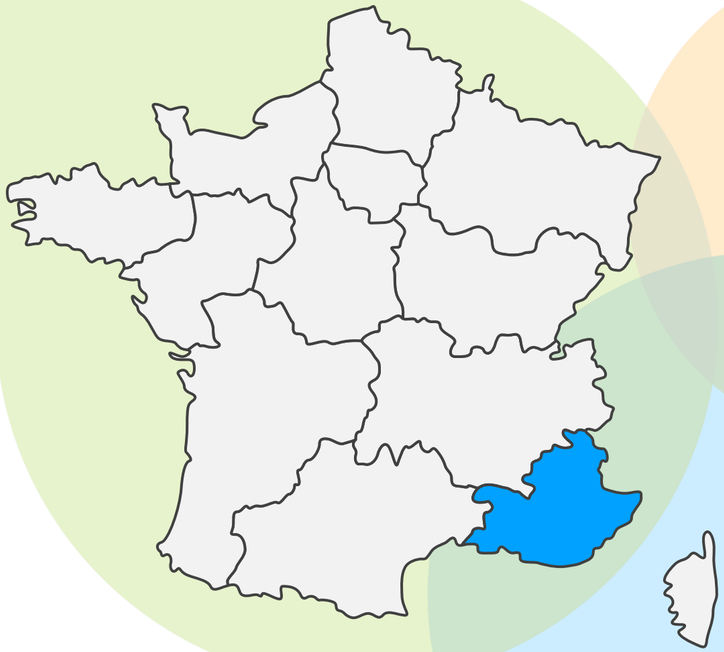
mauric

NOVEMBER 2024

“The LPMA : Maritime and Aquaculture Professional School of **Bastia** [**Corse**] inaugurates this Friday, November 15th, 2024, Alba, France's first hydrogen-electric powered fishing training vessel. **MAURIC** (...) has designed the vessel and provided technical coordination for this innovative industrial project. (...) The vessel features fully redundant power-propulsion architecture with two propulsion lines, two 200kW electric propulsion motors, two independent battery packs and two independent REXH2s powered by nine bottles of hydrogen compressed at 350 bars, totalling over 75kg of hydrogen.”

Source: Mauric, Press Release, November 15

France Hydrogène
Engagée pour la transition écologique



PROVENCE-ALPES-CÔTE D'AZUR

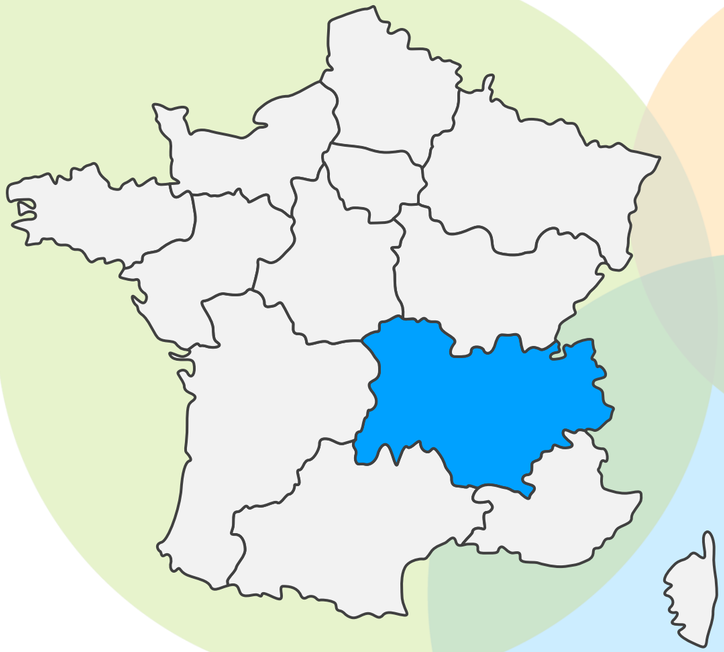
HY2GEN AG

NOVEMBER 2024

"**Hy2gen** and **H2V** enter into a strategic partnership to supply **Marseille Provence Airport** [**Provence-Alpes-Côte d'Azur**] with e-kerosene! Alexis Martinez, Managing Director of our partner H2V, Julien Coffinier, Chairman of the Executive Board of Marseille Provence Airport, and Julien Marteau, Managing Director of Hy2gen France, have signed an agreement to supply Marseille Provence Airport with e-kerosene. The e-kerosene will be produced from 2030 on the **Fos-sur-Mer** site and should enable a drastic reduction in aviation emissions of 86% compared with conventional kerosene.

Source: Hy2gen, LinkedIn Post, November 21 | Translated with DeepL

France Hydrogène
Engagée pour la transition écologique



AUVERGNE-RHÔNE-ALPES

green corp

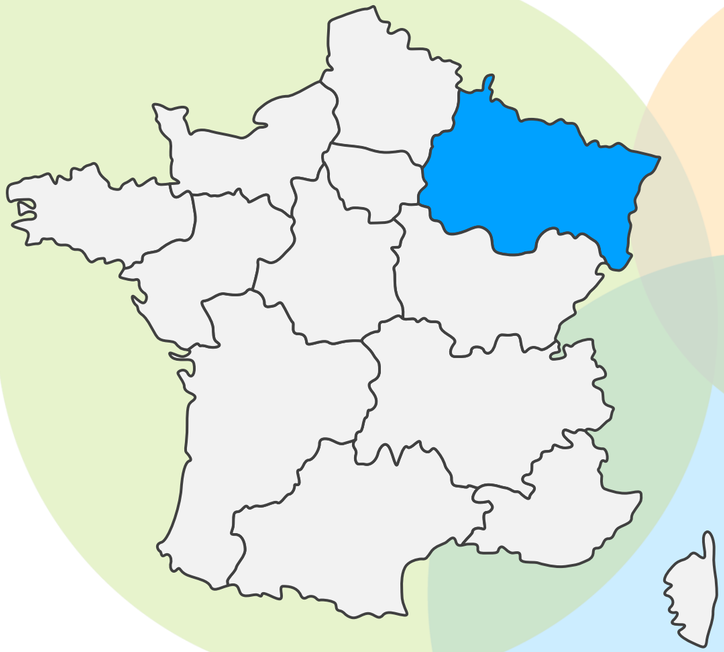
SOLARIS
A CAF GROUP COMPANY

NOVEMBER 2024

“Starting in December 2024, line 35-36, running between **Clermont-Ferrand** [**Auvergne-Rhône-Alpes**] and **Pont-du-Château**, will welcome four buses retrofitted by **GCK Mobility** and a new bus by **SOLARIS**, all powered by hydrogen fuel cells. Retrofitting, where the internal combustion engine is replaced with a hydrogen-electric engine, extends the lifespan of the vehicles while limiting costs and environmental impact. In 2025, the fleet will grow with three additional retrofitted buses and six new hydrogen buses. (...) The renewable hydrogen station in Cournon d’Auvergne, operated by **HYmpulsion**, will play a key role in refuelling this fleet.”

Source: Keolis, Press Release, November 22

France Hydrogène
Engagée pour la transition écologique



GRAND EST

Haffner Energy

Decarbonize · Innovate · Regenerate

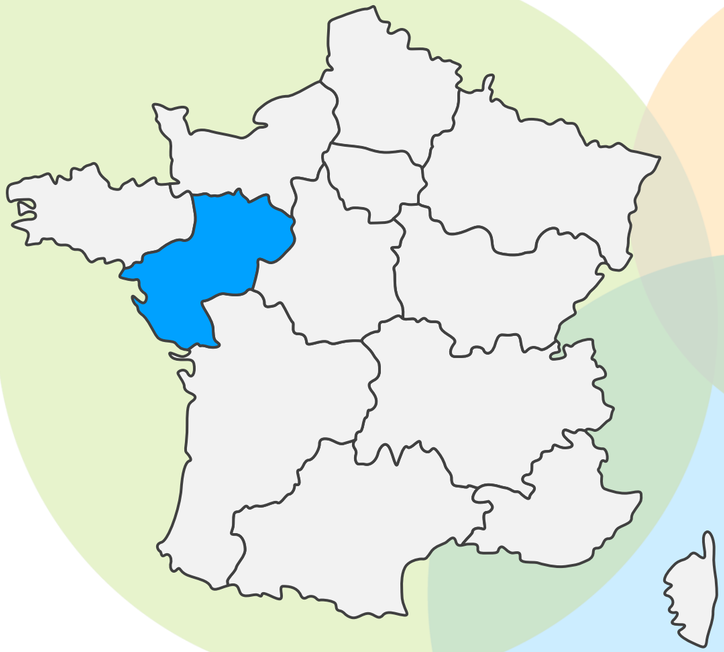
NOVEMBER 2024

“Inaugurated today [November 22], **Haffner Energy**'s hydrogen production, testing and training center is about to start producing renewable hydrogen using its patented biomass and organic waste thermolysis process. (...) As part of the site's operations, mobility-grade hydrogen will be produced and marketed at the rate of 15 kg/hour, or almost 120 metric tonnes per year, which is the equivalent of 12 million kilometers driven by hydrogen-powered vehicles.”

Source: Haffner Energy, Press Release, November 22

France Hydrogène

Engagée pour la transition écologique



PAYS DE LA LOIRE

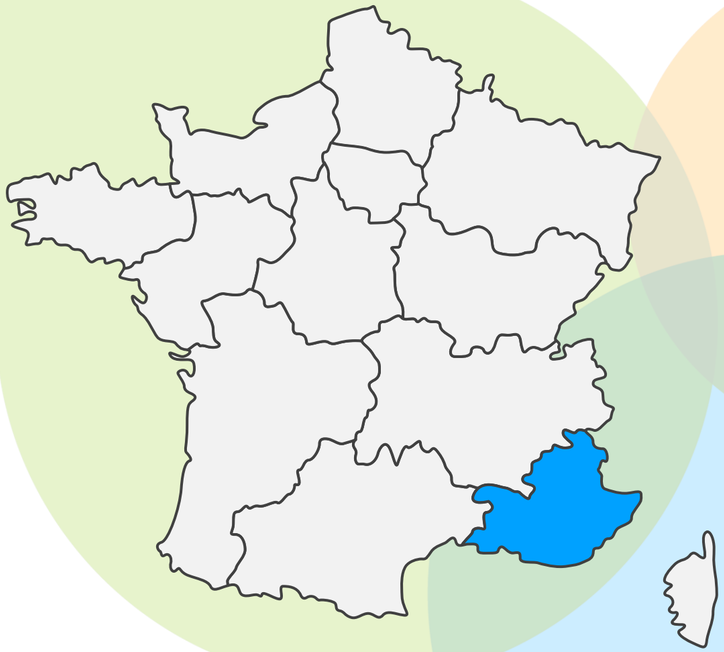
“Following the orders from the Cannes Lérins and Lorient Agglomerations, **IVECO BUS** has secured a new contract for the supply of its GX 337 H2 model. Two buses are set to join the "impulsyon" urban transport network – a forerunner in the adoption of green energies, including hydrogen – in the second half of 2025.”

IVECO

NOVEMBER 2024

Source: IVECO, Press Release, November 22

France Hydrogène
Engagée pour la transition écologique



PROVENCE-ALPES-CÔTE D'AZUR

Air Liquide

TotalEnergies

NOVEMBER 2024

"**TotalEnergies** has joined forces with **Air Liquide** to produce renewable hydrogen at La Mède [**Provence-Alpes-Côte d'Azur**] in southeast France. Air Liquide is going to build and operate a renewable hydrogen production unit at the La Mède platform. With an annual capacity of 25,000 tons, this unit will recycle coproducts from the TotalEnergies biorefinery. The hydrogen will then be used in the biorefinery to produce biodiesel and sustainable aviation fuel (SAF). The project's total investment amounts to € 150 million for TotalEnergies and Air Liquide. The new unit is expected to start production in 2028."

Source: TotalEnergies, Press Release, November 25

France Hydrogène
Engagée pour la transition écologique