



HYDROGEN SECTOR IN OCCITANIE

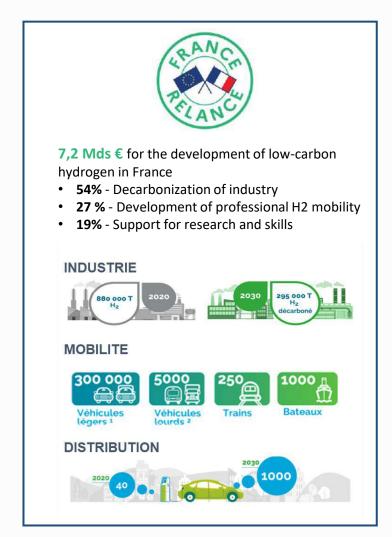




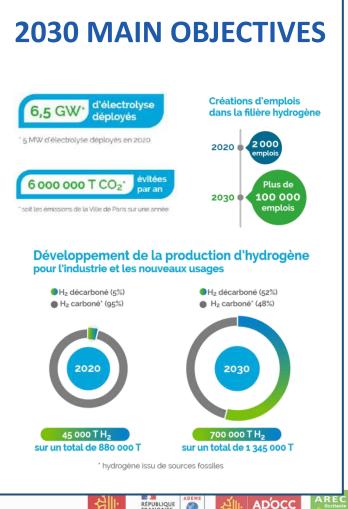


The French Hydrogen strategy

Responding to energy, climate and industrial challenges











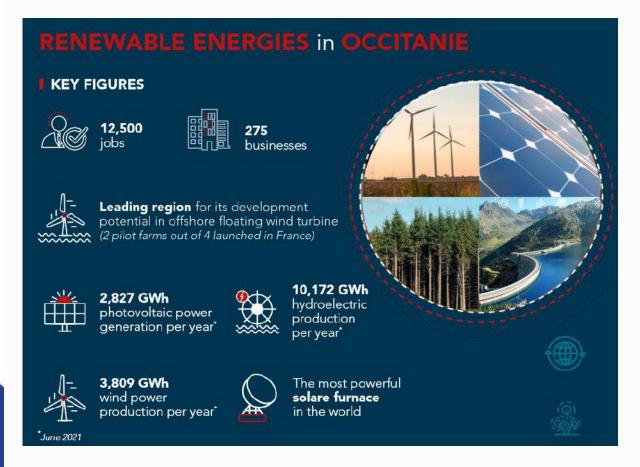








Occitanie, the positive energy Region



















A sector supported for more than six years















The Occitanie Region and its agencies are at the heart of many innovative projects in many fields





Deployment of 3 dual-mode Regiolis trains on the Toulouse-Montréjeau-Luchon line



HyDrOMer:

construction of a hybrid H2/diesel dredge In partnership with LMG Marin and Piriou shipyards



liO autocars H2:

Deployment of 15 retrofitted coaches in connection with the Corridor H2 project.

Corridor H2 Occitanie

€110 million of investment for the decarbonization of the truck transport of goods and fresh products in Europe.

- 2 renewable hydrogen production sites,
- 7 hydrogen refuelling station,
- 40 trucks
- 62 refrigerated units for trucks



























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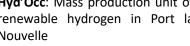
HyPort: Hydrogen mobility ecosystems in the airport areas of **Toulouse and Tarbes**





Hyd'Occ: Mass production unit of renewable hydrogen in Port la Nouvelle









Genvia:

Joint venture for the industrialization of high temperature solid-oxide electrolyser in Béziers



Techno Campus H2 Francazal:

10,000 m² planned to accommodate the largest European center for research, testing and technological innovation dedicated to renewable hydrogen.























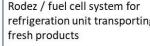
Regional players across the entire value chain













Albi / Hydrogen bus manufacturer, hydrogen coaches retrofit

Béziers / Industrialization of

Solid-Oxide electrolyser at

high temperature. Notified

IPCEI Hy2Tech



Toulouse / Pressurized storage container and autonomous hydrogen system





Fabrègues / manufacturer of electrolyzers for combustion systems: welding, industrial process, heating



Many players are developing the hydrogen aviation of tomorrow in Occitanie.









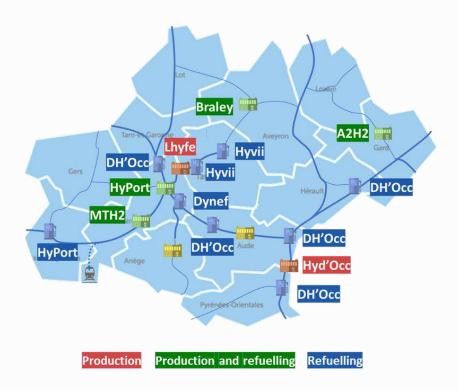






Regional players across the entire value chain





Projets en cours de développement :

Hylan,in Lannemezan, by QAIR and DH2

- 100 MW electrolyser
- Outlets = production of eSAF

H2V, in Porte du Tarn, by H2V

- 100 MW electrolyser
- Outlet = mobility refueling network

Eneralys, in Quissac-Liouc

- 10 MW electrolyser
- Outlet = mobility

Shell, in Nimes, by Shell and Hyundai Refuelling station for trucks

Avia, in Monbartier; by Avia and Lhyfe Refuelling station for trucks















Regional players across the entire value chain





Toulouse / Naval architect specialized in H2 integration for maritime and fluvial



Albi / Engineering specialist safety and vehicle certification and H2 station



Tarbes / Specialist engineering for gas pipelines.



More than 30 partners including the Occitanie Region, the Ministry

of Education, and Universities come together to:

- · Create training modules for different audiences;
- Train 1500 trainers in 5 years
- Promoting professions in the H2 sector
- · Assess the changing needs of the sector



Research center resulting from the "Key Challenges" initiative of the Occitanie Region.

- · 20 higher education establishments and 30 research laboratories
- 130 researchers, teacher-researchers, study and research engineers, technicians, doctoral students and post-doctoral students
- 200 theses defended in 10 years
- More than 100 hydrogen-specific test resources









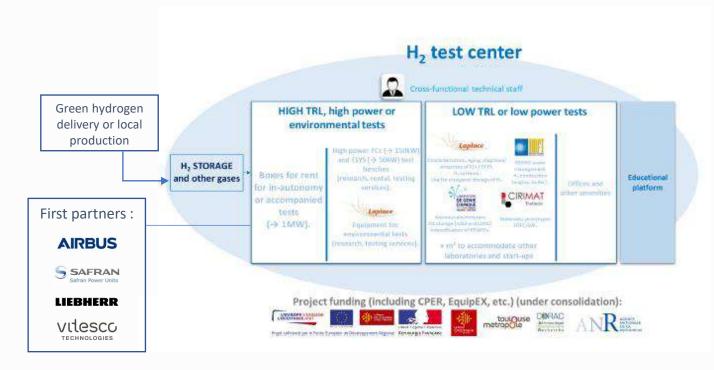






Focus: Occitanie Hydrogen Technologic Campus

Research and testing center for hydrogen and the mobilities of tomorrow









10,000 m² research center dedicated to hydrogen technologies.

Total investment of **55 million euros** co-financed by the State, the Occitanie Region, Toulouse Metropole and the CNRS for **commissioning in 2025**.

Meeting of the hydrogen activities of four regional laboratories

- Plasma and Energy Conversion Laboratory (Laplace)
- Materials Research Center (Cirimat)
- Chemical Engineering Laboratory (LGC)
- Institute of Fluid Mechanics of Toulouse (IMFT).

Combined with unique test resources available for companies for the development of hydrogen technologies. A dozen boxes available for hire, as well as storage spaces and two secure bunkers suitable for high-power testing, up to one megawatt.









