

# Air Liquide announces major investments to support European decarbonization in collaboration with TotalEnergies

In a major step towards decarbonizing European industry and mobility, Air Liquide announces two large-scale electrolyzer projects to produce renewable and low-carbon hydrogen in Europe. The first project, ELYgator, an Air Liquide 200MW electrolyzer, will supply both TotalEnergies' industrial platform and other European industrial and heavy-duty mobility needs, leveraging already secured renewable electricity from two offshore windfarms. In addition, Air Liquide and TotalEnergies announce the creation of a joint venture to develop a 250MW electrolyzer to supply the Zeeland refinery site.

Upon completion, these two projects would represent a combined investment of **more than 1bn€ and enable the avoidance of up to 500 000 tonnes of CO<sub>2</sub>-equivalent emissions per year**, strengthening Air Liquide's undisputed technological leadership for decarbonizing Europe industry and mobility.

## ELYgator, a 200MW Air Liquide electrolyzer project

Air Liquide projects to build, own and operate a 200MW electrolyzer in Maasvlakte, Rotterdam. With an estimated production of up to 23,000 tons of renewable and low-carbon hydrogen annually, the project will notably supply TotalEnergies' industrial platform through a long term contract. In addition, thanks to its existing hydrogen pipeline network, Air Liquide will also be able to serve additional Dutch and Belgian customers with industrial and heavy-duty mobility needs. Air Liquide will leverage renewable power production from TotalEnergies' share of OranjeWind windfarm as well as Power Purchase Agreements with Vattenfall from the Hollandse Kust Zuid (HKZ) offshore wind farm off the Dutch coast.

This project has already been provided support from the EU's Innovation Fund and the Dutch IPCEI program. With the implementation of RFNBO<sup>1</sup> regulations and requested subsidies, the project will be operational at the end of 2027.

## Creation of a new Air Liquide TotalEnergies joint venture to build a 250 MW electrolyzer project

Leading the path to decarbonization of the industry, Air Liquide and TotalEnergies also announce the creation of a 50/50 Joint Venture to develop a 250MW electrolyzer in the Zeeland province, Netherlands. Powered by renewable power from TotalEnergies' share of Oranjewind, this project aims to produce up to 30,000 tons of renewable and low-carbon hydrogen annually with an ambition to be completed in 2029 pending final authorizations and investment decision.

For these two projects, Air Liquide will leverage leading electrolyzer technology manufactured by its [joint venture with Siemens Energy](#).

**Emilie Mouren-Renouard**, member of the **Air Liquide** Executive Committee, notably in charge of Europe operations, said: ***"Flagship projects such as the ones we are announcing today, will play a key role in reducing emissions, particularly in hard-to-abate sectors such as industry and heavy mobility. We are proud to lead the way on European renewable and low-carbon hydrogen production, and to accompany TotalEnergies in their journey to decarbonizing their industrial assets. These two projects will complete the five Air Liquide low carbon units already in operation or construction in Europe. This illustrates our capacity to offer concrete solutions to our customers, to reach our carbon neutrality ambition by 2050, and to support Europe's leadership ambition towards decarbonized growth. It also demonstrates the ability of Air Liquide to develop solid business models in the energy field of low carbon hydrogen."***

**Vincent Stoquart**, President, Refining & Chemicals at **TotalEnergies**, said: ***"Following the first partnership agreement with Air Liquide to supply the Normandy refinery with green hydrogen, and the agreements to supply the Grandpuits and La Mède biorefineries with renewable hydrogen, the partnership with Air Liquide takes on a new dimension and marks a new step in TotalEnergies' ambition to decarbonize the hydrogen consumed by its refineries in Europe by 2030. By supplying these two electrolyzers with renewable electricity***

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<sup>1</sup> RFNBO - Renewable Fuel of Non-Biological Origin

*from our offshore wind project in the Netherlands, TotalEnergies is leveraging its positioning as an integrated electricity company.”*



**Co-funded by  
the European Union**

The ELYgator project has received support from the EU’s Innovation Fund. The Innovation Fund is 100% funded by the EU Emissions Trading Systems. Views and opinions expressed are however those of Air Liquide only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



Ministry of Economic Affairs  
and Climate Policy

The ELYgator project is supported by the subsidy program IPCEI Hydrogen that the Dutch Enterprise Agency carries out on behalf of the Ministry of Economic Affairs & Climate.

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Air Liquide is a world leader in gases, technologies and services for industry and healthcare. Present in 60 countries with 66,300 employees, the Group serves more than 4 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide’s scientific territory and have been at the core of the Group’s activities since its creation in 1902.

Taking action today while preparing the future is at the heart of Air Liquide’s strategy. With ADVANCE, its strategic plan for 2025, Air Liquide is targeting a global performance, combining financial and extra-financial dimensions. Positioned on new markets, the Group benefits from major assets such as its business model combining resilience and strength, its ability to innovate and its technological expertise. The Group develops solutions contributing to climate and the energy transition—particularly with hydrogen—and takes action to progress in areas of healthcare, digital and high technologies.

Air Liquide’s revenue amounted to more than 27.5 billion euros in 2023. Air Liquide is listed on the Euronext Paris stock exchange (compartment A) and belongs to the CAC 40, CAC 40 ESG, EURO STOXX 50, FTSE4Good and DJSI Europe indexes.