



The EDF Group launches a new industrial plan to produce 100% low-carbon hydrogen

With the Hydrogen Plan, the EDF Group aims to develop 3 GW of electrolytic hydrogen projects worldwide by 2030.¹ These projects, which will involve between €2 and €3 billion of investment², will be developed and co-financed through industrial partnerships and by drawing on national and European support mechanisms. The EDF Group's ambition is to become one of the European leaders in 100% low-carbon hydrogen production³.

Using hydrogen to radically decarbonise the industrial and transport sectors

In addition to direct electrification, the development of decarbonised hydrogen will play an essential role in achieving carbon neutrality. Low-carbon hydrogen produced from water electrolysis has a major role to play in decarbonising heavy mobility: buses, refuse collection vehicles, trucks and trains in non-electrified areas. Hydrogen derivatives (e-fuels) will help decarbonise air and sea transport. Hydrogen is also an intermediary for the radical decarbonisation of industrial processes such as those in the chemical, oil refining and steel industries.

Becoming a European leader in 100% low-carbon hydrogen production

Thanks to the development of its low-carbon electricity production facilities, both nuclear and renewables, and the know-how developed by its subsidiary Hynamics, created in 2019 and specialising in the production of electrolytic hydrogen, the EDF Group aims to become one of the European leaders in the production of 100% low-carbon hydrogen.

Following the Solar Plan, the Storage Plan, the Mobility Plan and the Excell Plan, the Hydrogen Plan is fully in line with the Group's CAP 2030 strategy. To achieve its objectives, the EDF Group will be able to take full advantage of the expertise of its R&D, which has been involved in hydrogen research for many years, and to draw on the skills of its engineering and marketing activities in France and abroad.

Jean-Bernard Levy, Chairman and Chief Executive Officer of EDF, commented: "The EDF Group is announcing today the launch of its Hydrogen Plan, a new and essential step towards the objective of carbon neutrality. Low-carbon hydrogen is an essential lever for reducing our dependence on fossil fuels alongside the direct electrification of end uses. With this ambitious plan and by capitalising on its expertise and know-how, the EDF Group intends to contribute to the emergence of a strong and innovative European hydrogen industry."

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¹ Subject to the implementation of appropriate support policies and a regulatory framework conducive to the development of electrolytic hydrogen

² Investments related to hydrogen production (excluding electricity production assets used to power the electrolyzers)

³ The delegated act on climate objectives published in December 2021 by the European Union defines as "low carbon" hydrogen whose life cycle analysis emissions are less than 3 kg of CO_{2eq}/kg of H₂ produced. It should be noted that currently approximately 98% of hydrogen is produced from fossil fuels (methane, coal). The process therefore emits large amounts of CO₂: to produce 1 kg of hydrogen, more than 10 kg of CO₂ are emitted.

About EDF

As a major player in energy transition, the EDF Group is an integrated energy company active in all businesses: generation, transmission, distribution, energy trading, energy sales and energy services. EDF group is a world leader in low-carbon energy, having developed a diverse production mix based mainly on nuclear and renewable energy (including hydropower). It is also investing in new technologies to support energy transition. EDF's raison d'être is to build a net zero energy future with electricity and innovative solutions and services, to help save the planet and drive well-being and economic development. The Group is involved in supplying energy and services to approximately 38.5 million customers (1), of whom 29.3 million in France (2). It generated consolidated sales of €84.5 billion in 2021. EDF is listed on the Paris Stock Exchange.

(1) Since 2018, customers are counted per delivery site. A customer can have two delivery points: one for electricity and another one for gas.

(2) Including ÉS (Électricité de Strasbourg) and SEI.

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