

Ambitions, scenarios and opportunities of using hydrogen for the energy transition

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The strong need to reduce CO₂ emissions has led to the demand for new solutions to achieve the challenging objectives of decarbonisation; moreover, the uncertain geopolitical situation has accelerated the need for security of energy supplies. Hydrogen has become a key carrier and one of the answers to solving the medium to long term problems of this time.

The technologies are now mature, ready to enter the market and move on to the industrialization phase. With the publication of the Hydrogen Strategy on 8 July 2020, Europe has officially recognized a key role for hydrogen and has given a strong impetus to the development of the sector in individual Member States so that Europe has the opportunity to be a pioneer in technology development. With the RepowerEU, hydrogen has gained importance to help diversify energy sources with a boost to domestic production but also to imports. Europe recently confirmed the strategy with the establishment of a European Hydrogen Bank.