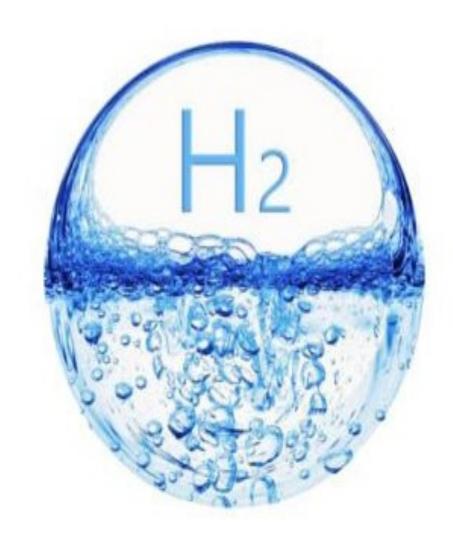


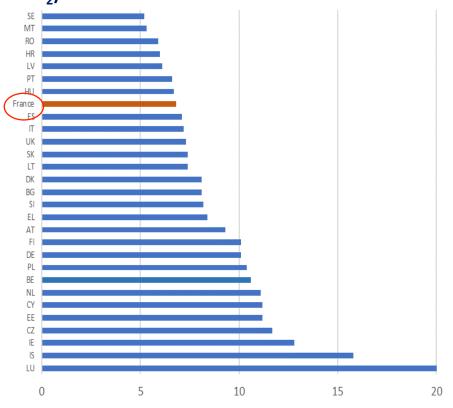
EDF Group

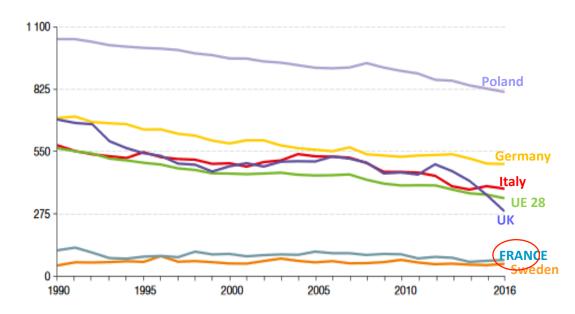
International decarbonisation strategy and GH₂ plans for Chile



FRANCE CO2 EMISSIONS AMONG THE LOWEST THANKS TO ITS POWER SECTOR

Greenhouse Gas Emissions per capita in Europe (Ton eq. CO₂ Emissions to produce electricity in the EU (GCO₂ / 1kWh)





Source: Eurostat, 2016.

Source: Commissariat général au développement durable Ed. 2020

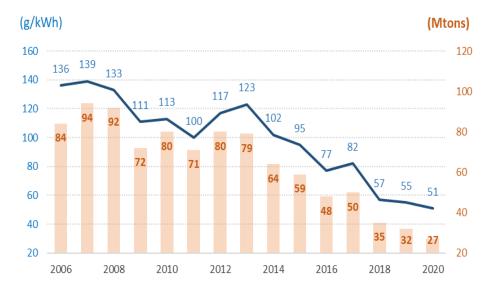


EDF DECARBONISATION STRATEGY

Our raison

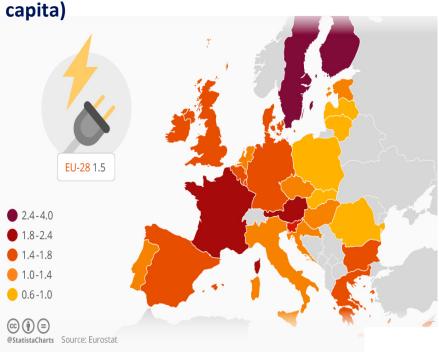
and innovative solutions and services, to help save the planet and drive wellbeing and economic development.

Reduction of direct CO₂ emissions from EDF group



Source: EDF Carbon Footprint 2020

European Electricity Consumption (MWh per



EDF has led France to become a leading low-carbon economy providing clean electricity to replace the use of fossil fuels.



INVEST IN HYDROGEN TO REDUCE CARBON EMISSIONS

• EDF, major player of energy transition, Leader of low carbon energy

EDF

Hydroge n

 Decarbonise two of the most CO2emitting sectors , Industry and Mobility Build an industrial and commercial H₂ offer and new growth driver for the group

Hynamic



- Created in 2008
- A key player in the hydrogen sector
- A complete range of solutions :
 - Electrolyzers
 - Hydrogen refueling station
- · Agile along the entire value chain



Wesküste 100, Hemmingstedt, Germany.



EDF GROUP IN CHILE SINCE 2013



Cabo Leones I (115 MW), Freirina - Chile.

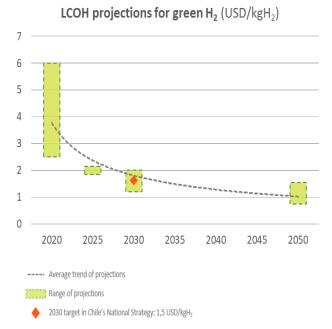
- 750 MW of thermal installed capacity
- 376 MW of renewable installed capacity
- Developing renewable projects for more than 2.000 MW
 - Solar PV and Pumped Hydro Storage
 - Hydrogen: Green Hydrogen projects & Energy Storage



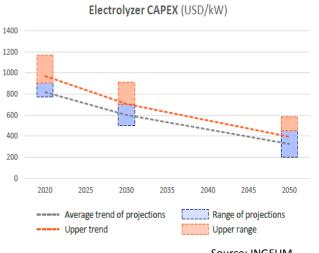


CHILE'S POTENTIAL AS A GREEN HIDROGEN HUB

- The government launched an ambitious national strategy.
 - Public funds from CORFO are available for US\$50 million
- Chile has big renewables potential and can benefit from a decreasing cost of electricity from wind and solar.
- Competitive Levelized Cost Of Hydrogen (LCOH) depends on multiple variables:
 - Decrease in LCOE and electrolyzers' cost
 - Improvement in electrolyzer efficiency and load factor
 - Formulation of regulatory framework
 - Increase in carbon tax to alternative fuels



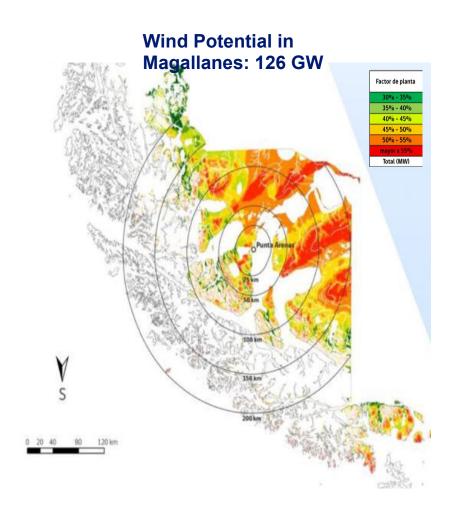
Source: LCOH benchmark based on Irena, Hydrogen Council, IHS Markit, academic papers.



Source: INGEUM

CHILE'S POTENTIAL AS A GREEN HIDROGEN HUB: CHALLENGES

- The ambitious GH2 strategy announced by the Chilean government presents a massive opportunity for international investors and faces several challenges.
 - 40 GW of renewable generation capacity and 25 GW of electrolysers are required in 2030 to produce 1 million tons of H₂; 200 GW of renewable generation capacity and 130 GW of electrolysers are estimated for 2040.
 - Actual demand of 70 ktons of H₂ must diversify to other uses; future offtakers require competitive prices; local and external financing instruments are needed.
 - Appropriate regulatory framework, tax incentives, clear and agile permitting rules, are crucial to incentivate project development.



Source: Chilean Ministry of Energy, 2020



CONCLUSIONS

- The EDF Group has been developing an expertise and a presence on the H2 European market.
- EDF is determined to become a key player on the Chilean green H₂ market.
 - Establishing alliances with private and public partners, coinvestors and technology providers.
 - Evaluating projects with the best economic perspectives and technological maturity.



EDF Bolero Solar Plant (146 MW), Sierra Gorda - Chile.





EDF Group

International decarbonisation strategy and GH₂ plans for Chile

