



# MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE

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General Directorate of Energy and Climate



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# **NATIONAL STRATEGY FOR THE DEVELOPMENT OF RENEWABLE AND LOW-CARBON HYDROGEN IN FRANCE**

# Background

- June 2018 – French national hydrogen deployment plan
- Investments for Future Program (PIA) 100 M€
- National Research Agency (ANR) allocated 110 M€ for hydrogen public research over the past 10 years
- French Environment and Energy Management Agency (ADEME) supported the hydrogen deployment for mobility (80 M€)
- French Public Investment Bank (Bpifrance) supported hydrogen innovation projects and technology development carried by start-ups and SME
- French Territories Bank supported hydrogen deployment projects carried by local organisations
- February 2020 – clean hydrogen found to be a priority among the 11 key markets
- February - June 2020 – Call for expression of interests: 160 projects submitted representing 32.5 Bn€ of investments and 7 Bn€ need of public aid
- September 2020 – a new national strategy for renewable and low-carbon hydrogen development in France

# Goals by 2030

- **Deployment of 6.5 GW of water electrolysis capacities**
- **This allows to abate 6 Mt of CO<sub>2</sub> (per year) in the sectors of industry and of heavy duty transport**
- **Create 50 000 – 150 000 direct and indirect “green” jobs**

# A 7 Bn€ strategy - 3.4 Bn€ for the next three years

Three priorities to reach climate neutrality by 2050

- **Industry decarbonation**

- Development of a French water electrolysis industry through IPCEI
- Replacement of fossil derived hydrogen with clean hydrogen (mainly refineries and chemistry) through clean hydrogen certification and CfD aid type mechanism

- **Clean hydrogen for heavy duty transport application**

- Heavy duty vehicles manufacturing and components through a “Demonstration and technology bricks” call for projects
- Development of important hydrogen usage projects at local level through a “Local hydrogen hubs” call for projects

- **Support research, innovation and know-how development for tomorrow’s hydrogen usages**

- Implementation of a Priority Research Program for hydrogen applications
- Education and professional training programs for hydrogen based on “profession and qualification campus”



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**THANK YOU!**

**MERCI POUR VOTRE ATTENTION !**