

HOW BPIFRANCE FRANCE IS SUPPORTING THE FRENCH HYDROGEN INDUSTRY



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Innovation Direction

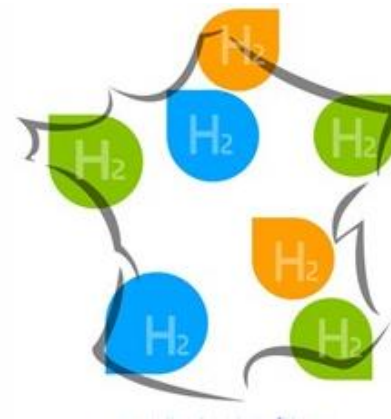
Introduction

bpifrance Actions:

01. Equity

02. Projects funding

03. Events



Introduction:

Abstract of France National Strategy « Decarbonated H2 »

- Low Carbon H2 mandatory to reach Carbon Neutrality in 2050
- Sovereignty at stake
- H2 Production: > 6,5 GW installed electrolysis capacity within 2030
- Focus on 3 applications:
 - Replace « grey » H2 in current industrial use (refinery etc...)
 - Apply new technologies in CO2 intensive industries (steel, concrete...)
 - Develop technologies for « heavy » mobility: trains, light trucks...



➔ ~9 B € of public support to H2 development within 2030
➔ BPIFrance major actor of this plan

bpi**france** Actions: Equity



→ Participations in Hydrogen Start-Ups through « Eco-technologies » Fund

Example:

The logo for McPhy, written in a bold, blue, sans-serif font.

Design & industrialisation of H2 solutions:
electrolysers, distribution stations

bpi**france** Actions: Funding

Through Europe IPCEI mechanism,
funding of 10 « Hy2Tech » projects

elogen

4 electrolyzers
Gigafactories

McPhy



GENVIA



John
Cockerill

ARKEMA

FORVIA
faurecia



PLASTIC OMNIUM



6 Mobility
Technologies



SYMBIO

HYVIA

ALSTOM

→ Communication by DGCOMP july 2022

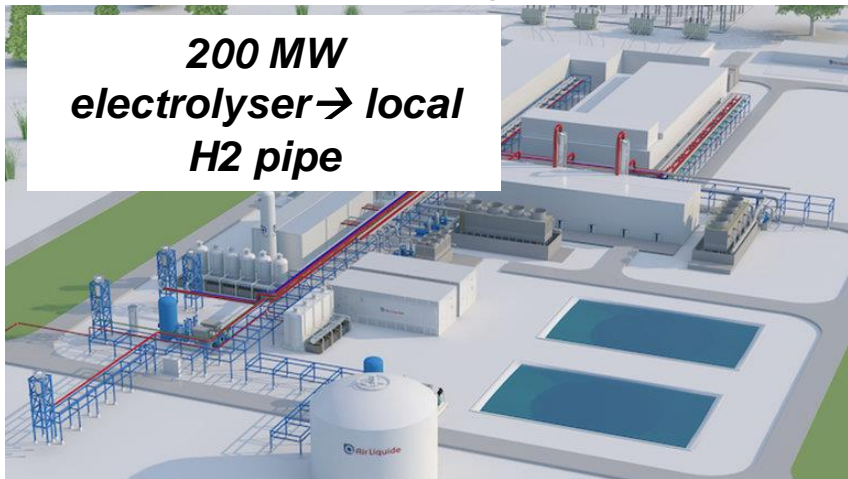
→ Total Grants ~2 B €

bpi**france** Actions: Funding

+ funding of 2 « Hy2Use » projects

Air Liquide
« Normand'hy »

200 MW
electrolyser → local
H2 pipe



Total Energies & Engie
« Masshylia »

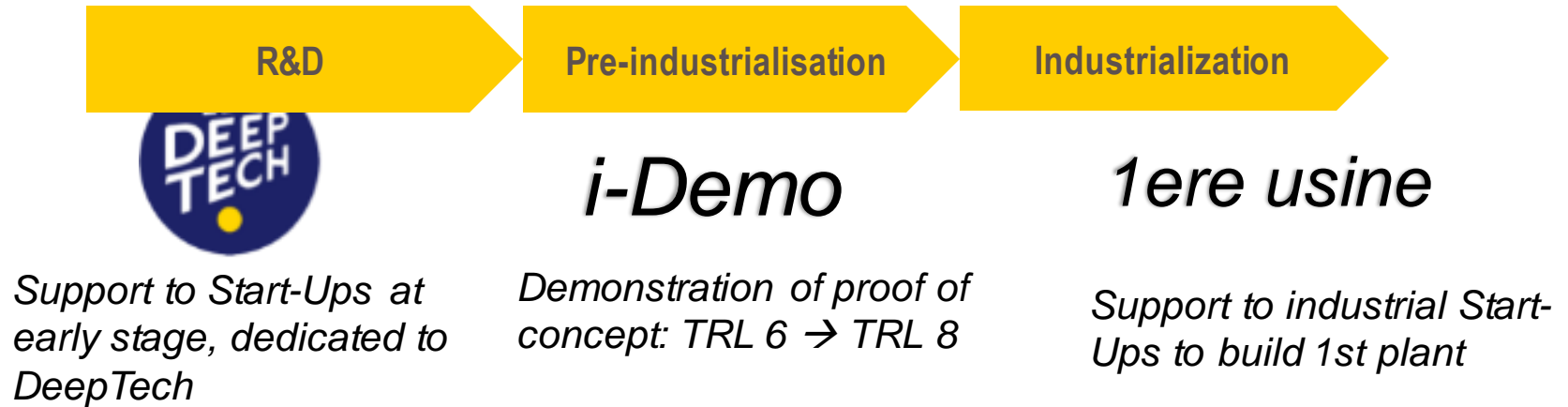
The aim of the Masshylia project is to produce decarbonized hydrogen in order to partially meet the needs of the biofuel manufacturing process at **TotalEnergies'** La Mède biorefinery as well as those of mobility uses..



→ **Decarbonation of Industry**

bpi**france** Actions: Funding

Besides IPCEI, a wide offer to support innovation at various stages



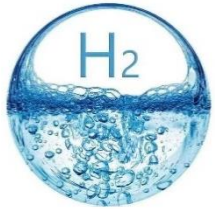
➔ From upstream R&D to industrialization, various means of support (100 k€ → 15 M€; grants & loans)

bpi**france** Actions: Events

May	June	July	Aug	Sept	Oct	Nov
 <p>« H2 business » at Swiss Embassy</p>				 <p>France-Norvège Forum décarbonation: focus H2</p>		 <p>Sponsor of Forum in Montbéliard</p>
 <p>Podcast dedicated to H2 mobility</p>	 <p>bpifrance</p>	<p>3 webinars with France Hydrogène members: funding, international, French Fab</p>			 <p>AGGORA ARENA JEUDI 6 OCTOBRE 2022</p> <p>BIG: Workshop « H2 Production »</p>	 <p>Immersive trip in Germany & Netherlands for french companies</p>

➔ Organization, sponsorship or participation to numerous events

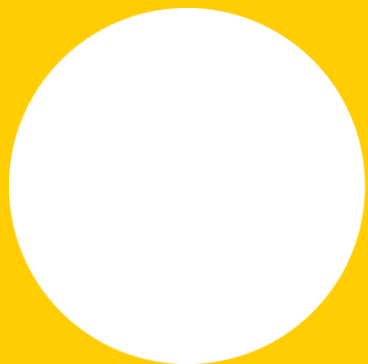
Conclusion



- Low carbon H2 Mandatory for Climate change & sovereignty
- France national strategy defined, with substantial funding

bpifrance

- Pioneer in H2 investment
- In support of the whole H2 industry, from Start Up to large companies
- Key actor of strategy implementation, starting with IPCEI operation



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L'AVENIR**

