



## Progression of the Hydrogen Industry

Pete Fear

Origination & Partnerships



# NET ZERO 2050

A RECOGNISED AMBITION



## THE TRIPLE CHALLENGE

- Secure
- Affordable
- Net Zero Carbon

# 2<sup>ND</sup> OF JULY (OR 2<sup>ND</sup> JUNE!) 2025 – A NOTABLE DATE

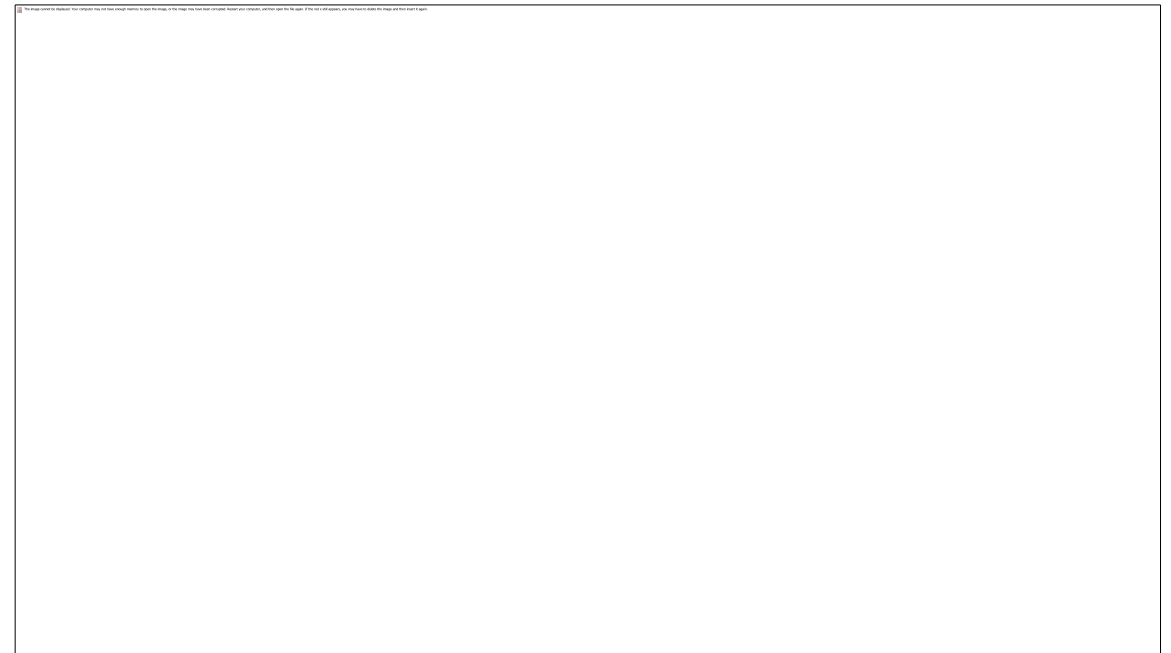
\*DEPENDING UPON SOURCE OF INFORMATION

**It's now been 25 years since the year 2000, and we have 25 years until 2050.** However, because we are past the halfway point of the year, we are technically closer to 2050 than we are to 2000. The exact halfway point of the year, when the number of days from the start of the year to the date is equal to the number of days from the date to the end of the year, falls on July 2nd. After that date, we will be closer to 2050 each and every day.

## 1999



## 2025

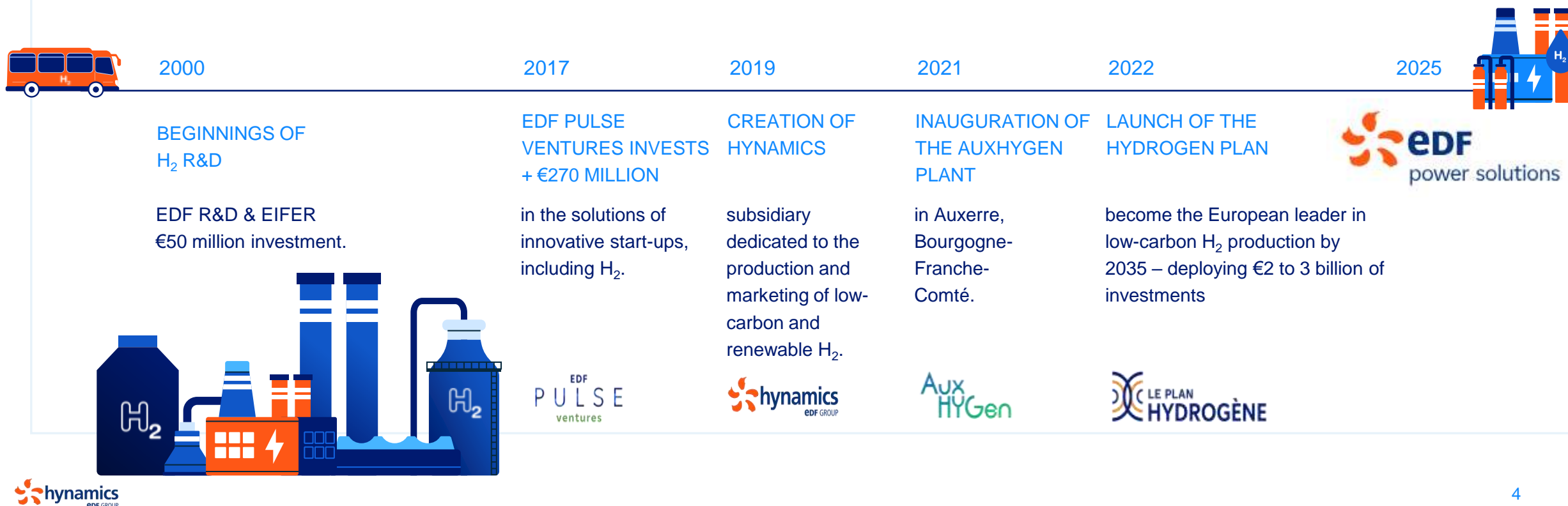


# EDF GROUP'S HYDROGEN JOURNEY

25 YEARS IN MAKING

## EDF's hydrogen strategy, led by Hynamics, aims to:

- Ensure in-depth decarbonisation of the industry and transport sectors;
- Reduce our dependence on fossil fuels in addition to the electrification of uses;
- Contribute to the emergence of a strong and innovative European hydrogen industry.




# ALL ABOUT HYNAMICS

"COMMITTED TO LOW-CARBON HYDROGEN TO INVENT AND BUILD A SUSTAINABLE FUTURE".


01


100% SUBSIDIARY OF THE EDF GROUP




02

3 MARKETS ADDRESSED

  
INDUSTRY


  
MOBILITY

  
E-FUELS

the largest CO<sub>2</sub> emitters


03


180 EMPLOYEES – UK TEAM 25




04

PRESENT IN 3 COUNTRIES


  
2019  
Creation  
of Hynamics

  
2020  
Creation  
of Hynamics  
Deutschland

  
2021  
First  
projects in the  
United Kingdom

05


60 PROJECTS IN DEVELOPMENT



More than 1 GW of electrolysis

06

CENTRAL TO STRATEGY



# OUR PROJECTS

PAN-EUROPEAN DELIVERY



2021

400kg

5

Commissioning

Hydrogen produced per day

Hydrogen bus

1MW

Electrolysis

2 200

Tons of CO2 avoided

Location	Go Live
Auxerre	2021
Belfort	2023
Dunkirk	2025
Paris	Under Construction
Cannes	Under Construction



2023

400kg

3 000

Commissioning

Hydrogen produced per day

Tons of CO2 avoided per year from 2026

1MW

Electrolysis

7

Hydrogen bus



2025

540

1,25 MW

Commissioning

Tons of hydrogen per day

Electrolysis

10

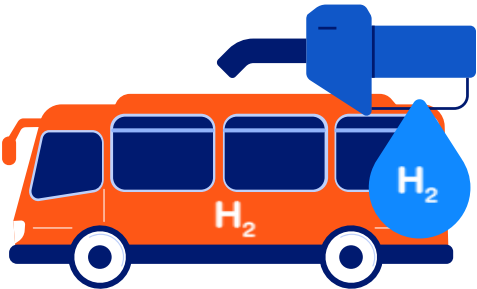
Hydrogen bus

3

Waste collection vehicles

1 137

Tons of CO2 avoided per year





# OUR PROJECTS

UK SPECIFIC



7,5 MW

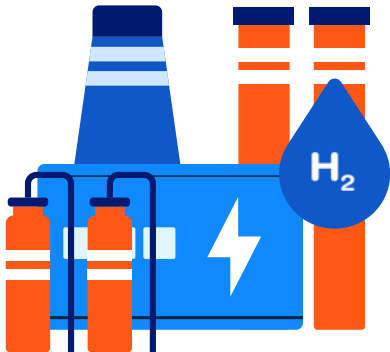
Electrolysis

300 MW

Planned extensions



Supply of electricity from EDF Renewables' renewable assets in England, including a solar farm project in Redcar.



## Fawley Green Hydrogen



2029

Commissioning

120 MW

Electrolysis

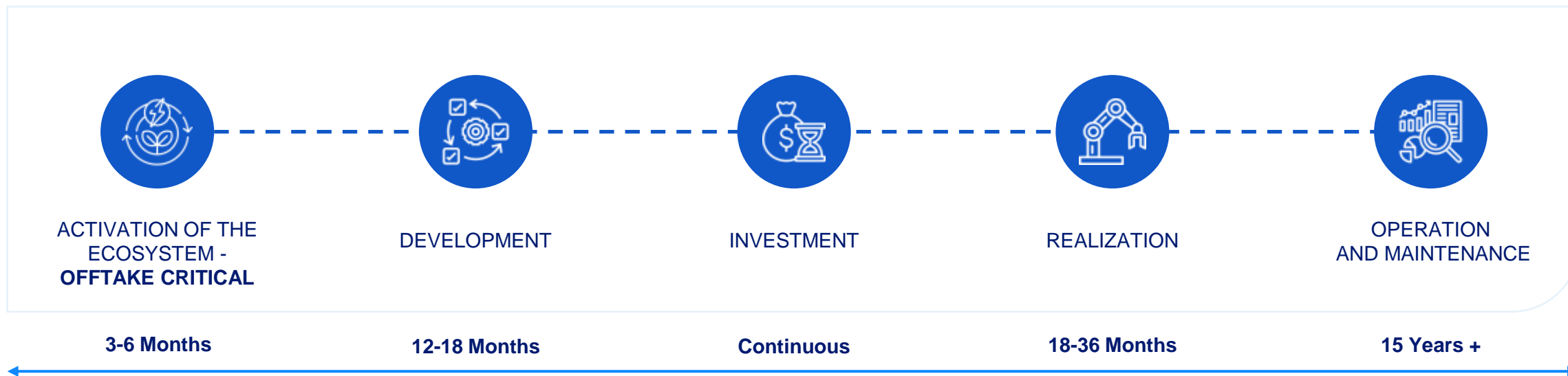
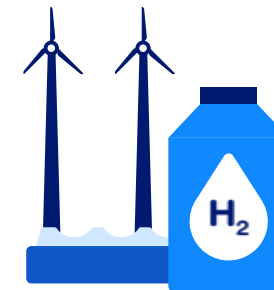
300 MW

Planned extensions

Location	Status
Tees Green Phase 1	HAR1 Awarded
Tees Green Phase 2	HAR2 Shortlisted
Fawley Phase 1	HAR2 Shortlisted

# HOW WE DELIVER SOLUTIONS

A LONG-TERM ENABLER OF YOUR SUSTAINABILITY GOALS



**20 Years +**

01

## OUR GOAL

**To make a significant contribution** to reducing the CO<sub>2</sub> emissions of our customers and partners **in the industrial and heavy/professional mobility sectors.**

02

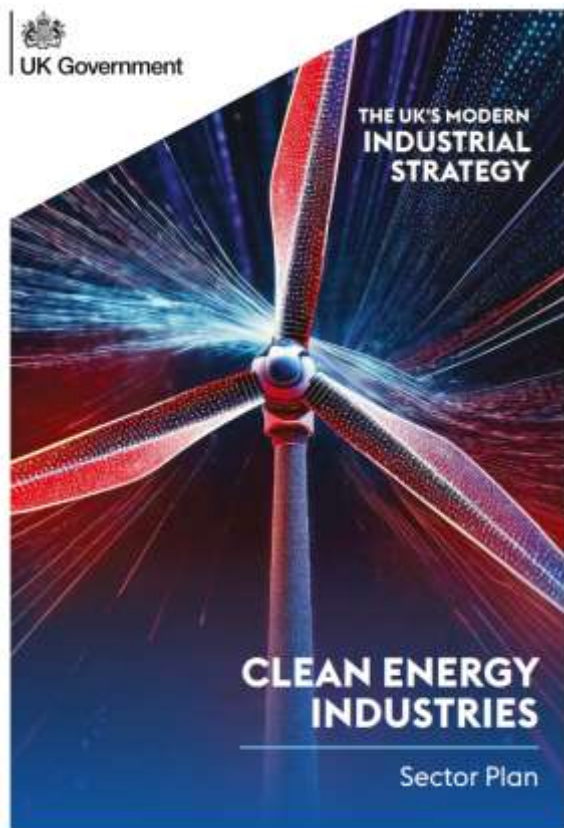
## OUR METHOD

**To propose a turnkey H<sub>2</sub> offer:** to develop, invest, build and operate high-performance facilities for the production and distribution of low-carbon or renewable hydrogen in complete safety.



# 2025 AND BEYOND

LOOKING FORWARD



## ON HYDROGEN

- Publishing a revised Hydrogen Strategy in 2025
  - To include a stronger focus on using hydrogen in the sectors where it is of greatest value
- DESNZ aim to launch:
  - HAR3 3 “by 2026”, and
  - HAR4 “from 2028”.
- Support for:
  - Hydrogen transport and storage, and
  - Hydrogen to power
- Publishing a consultation on transmission network blending shortly (summer 2025) .

## HYNAMICS IN WALES

- Existing engagement and activity in North and South Wales
- Offtake is critical – we will match supply where there is demand
- Focused on development in region with strong local engagement and policy support



# Thank You

We are committed to your Net Zero future



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