

EDF's Green Hydrogen Vision for Teesside

Matthew Day

NEPIC Clean Growth Conference

20th September 2022



EDF's low-carbon, electrolytic hydrogen offering in the UK

Leveraging the strengths of EDF Renewables, EDF Energy and Hynamics

Three EDF subsidiaries, working together to develop hydrogen

Hynamics
One of Europe's leading low-carbon hydrogen producers



EDF Renewables
Leading UK and Irish renewables developer and operator



EDF Energy
The UK's largest low carbon power producer and leading supplier



EDF's history and future in Teesside



Operational

1983



Hartlepool Nuclear Power Station

2014



Teesside Offshore Wind

Planned

2025



Tees Solar

2025



Tees Green Hydrogen

2030+



High Temp Gas Reactor



EDF's future in Teesside



The graphic features the Hartlepool Heat Hub logo (a stylized 'HH' in a hexagon) at the top. Below it, the text reads 'Building up steam for the Net Zero industrial revolution on Teesside'. To the right, a dark blue box contains the text '£3.3 MILLION BOOST FOR NEXT-GENERATION NUCLEAR TECHNOLOGY' and 'Energy Security Strategy' with the HM Government logo. At the bottom right is a photograph of a large industrial facility.

HARTLEPOOL HEAT HUB

Building up steam for the Net Zero industrial revolution on Teesside

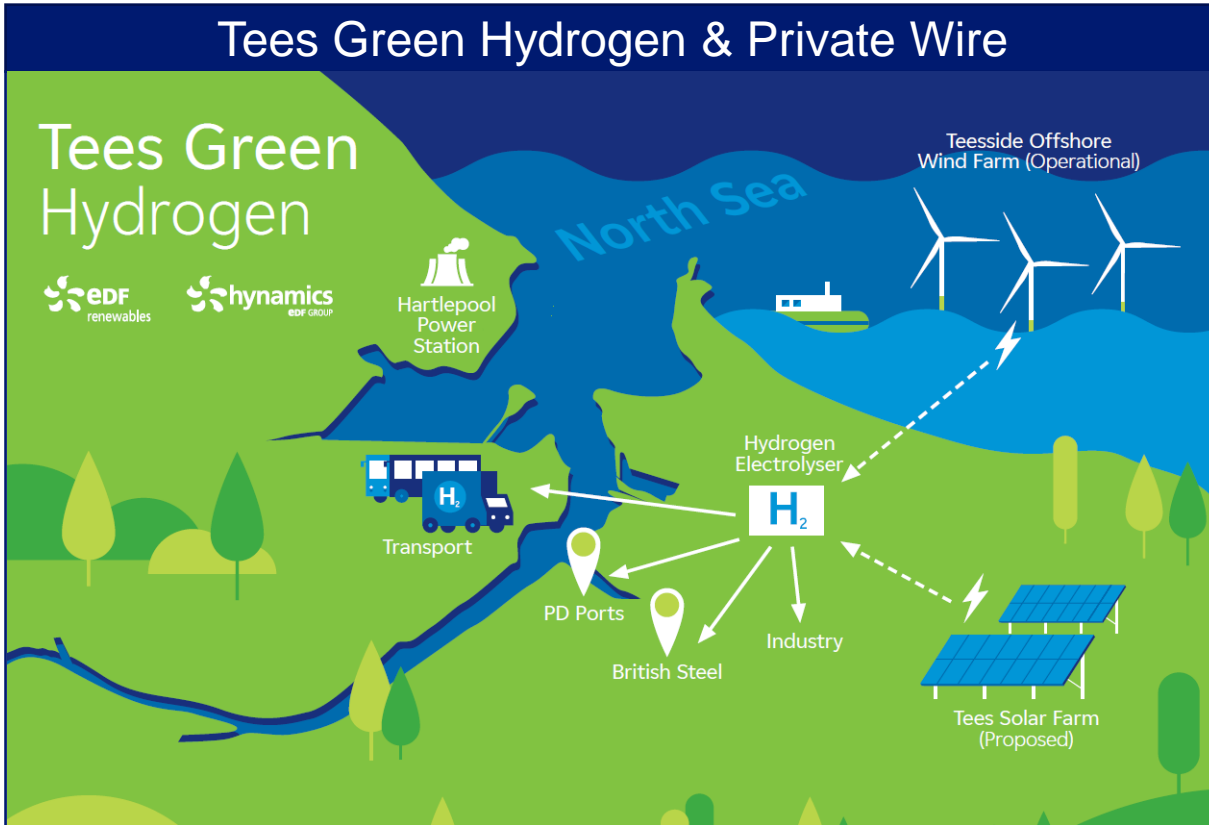
£3.3 MILLION BOOST FOR NEXT-GENERATION NUCLEAR TECHNOLOGY

HM Government Energy Security Strategy

Hartlepool Heat Hub – 2030's

Tees Green Hydrogen

One of the UK's first **green hydrogen** projects, combining **offshore wind** & **solar** to produce green H₂ in the heart of an industrial and transport cluster



Multi-Model, Phased Project Approach

- Site designed for phased expansion:
- **Phase 1:** 5 - 30 MW electrolyser supplied by **60MW offshore wind** & **50MW solar** + grid power
 - **Phase 2:** up to 100 MW
 - **Phase 3:** 500MW+

Our Teesside Partners



Decarbonising: Port operations / Trucking / Near Shore Maritime, including Offshore Wind O&M

Associated Funding: Various live DfT bids



Decarbonising: Heat for furnace

Associated Funding: BEIS Industrial Fuel Switching



Teesside is the leading UK centre for Hydrogen, but we must accelerate to keep pace with European & global counterparts

Our project will accelerate & compliment the wider decarbonisation of the region

Why Teesside?



Infrastructure



H₂ Capabilities



Hub of industrial & transport demand

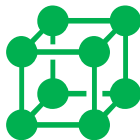
Why Green H₂?



Energy Security



System Flexibility



Modular

Why EDF?



Collaborative R&D approach, with customers



Speed to market



Teesside experience



Thank You

