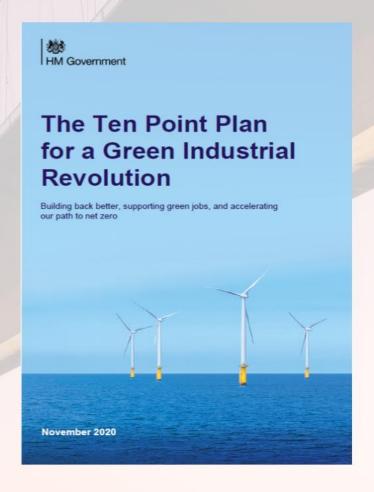


GB Industrial Clusters...Key Enablers





Structured Early Collaboration

Committed Ambition

Department for Business, Energy & Industrial Strategy

BUSINESS MODELS FOR CARBON CAPTURE, USAGE AND STORAGE

A consultation seeking views on potential business models for carbon capture, usage and storage

Closing date: 16 September 2019

July 2019

Business Models

GRANGEMOUTH

SOUTH WALES

HUMBERSIDE

ZEROCARBON HUMBER

PROVEN PARTNERS COMMITTED TO CLEAN GROWTH

















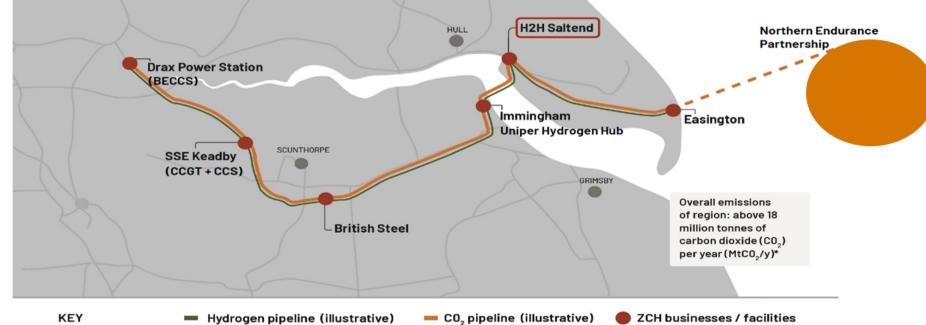












GLOBAL LIGHTHOUSE FOR NET ZERO CLUSTERS

We want to transform the Humber into the world's first carbon neutral industrial cluster by 2040.

This ambition would be realised by creating:

- The world's largest hydrogen production plant with CCS at Equinor's H2H Saltend project
- The world's first carbon negative power station at Drax
- The UK's first decarbonised gas power stations at SSE's Keadby site
- Additional hydrogen production capability at Uniper's Killingholme site
- Low carbon steel production at Scunthorpe steelworks



This would be enabled by:

- A regional carbon dioxide (CO₂) transportation system, shared by multiple users
- Hydrogen pipelines enabling the decarbonisation of the Humber and the wider North of England
- Safe offshore subsea CO2 storage, which can also be utilised by the Teesside cluster

DELIVERING FOR UK PLC

A TRANSFORMATIVE VISION FOR THE HUMBER



PROVEN PARTNERS WITH A SHARED AMBITION TO TURN THE HUMBER INTO THE **WORLD'S FIRST ZERO CARBON INDUSTRIAL CLUSTER BY 2040**

BUILDING BACK BETTER AS PART OF A GREEN RECOVERY



SAFEGUARDING OF 55,000 EXISTING INDUSTRIAL JOBS AND CREATION OF THOUSANDS OF NEW LOW **CARBON JOBS BASED** AROUND CCS AND **HYDROGEN**

VALUE FOR MONEY PROPOSITION FOR THE UK



THE HUMBER CAN DELIVER COST EFFECTIVE **DECARBONISATION BY REALISING ECONOMIES OF** SCALE IN THE REGION AND IN PARTNERSHIP WITH TEESSIDE

SUPPORTING GB CLIMATE **LEADERSHIP AHEAD OF COP26**

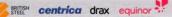


SHOWCASING UK LEADERSHIP ON THE WORLD STAGE, DRIVING **INWARD INVESTMENT & ENABLING THE UK TO TRADE IN LOW-CARBON MANUFACTURED PRODUCTS**





















UNLOCKING WORLD-LEADING PROJECTS



Equinor and SSE Thermal have jointly unveiled plans for two exciting new projects in the Humber.

The site will connect to the infrastructure being developed through the Zero Carbon Humber partnership...

Two first-of-a-kind low-carbon power stations:

- Keadby CCS one of the UK's first CCGTs with CCS
- **Keadby Hydrogen** world's first major 100% hydrogen-fuelled power station

Providing flexible, efficient power to support intermittent renewable generation and maintain security of supply through the net zero transition.



This new partnership will ensure that world-first technology is being developed in Scunthorpe and across the Humber, creating green jobs and bringing new investment which will benefit local communities and businesses – revitalising this industrial heartland as the UK builds back greener.

Kwasi Kwarteng
UK Secretary of State for Business, Energy and Industrial Strategy