
Net Zero Teesside

Project update & CCUS business models

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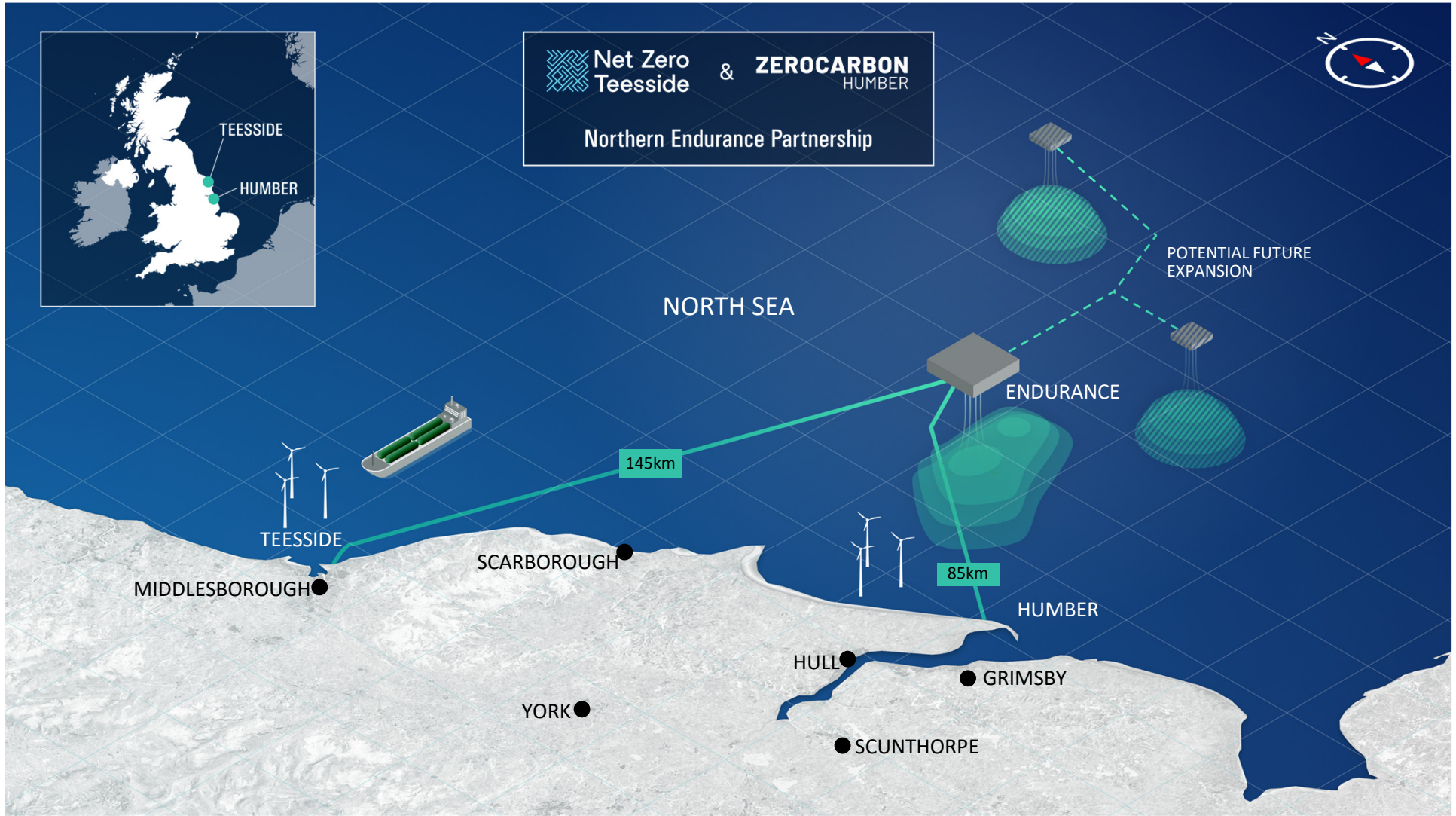




 **Net Zero
Teesside**

& **ZEROCARBON**
HUMBER

Northern Endurance Partnership





Net Zero Teesside



Export pipeline to store

NORTH SEA

Net Zero Teesside

CCGT & CCS



Shipping

ConocoPhillips

Crude oil processing

NSMP

Gas import & processing

BOC

Hydrogen production

SEAL SANDS

TEESWORKS

semcorp

Biomass power

FUTURE INVESTMENT

8 RIVERS

Pre-combustion power

FUTURE INVESTMENT

CALYSTA

Fish feed

BILLINGHAM

7km

River Tees

WILTON INTERNATIONAL

MIDDLESBROUGH

CF Industries

Nitrogen fertilizers

suez

Waste to energy

MGT Teesside

Biomass power

semcorp

Waste to energy

semcorp

Combined heat & power

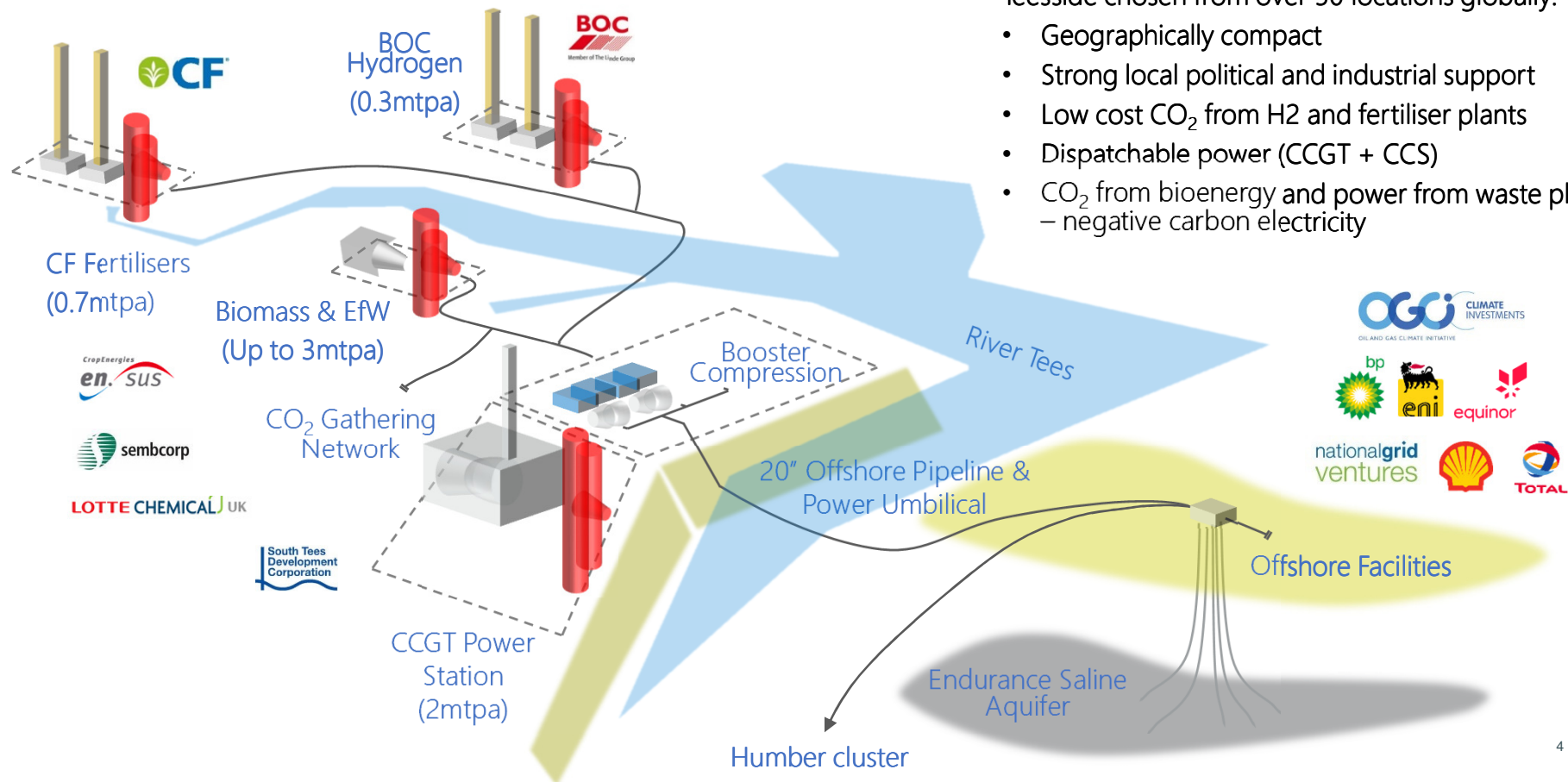
alpek

Industrial chemicals

en.sus

Biodiesel

NZT: World's first zero carbon industrial hub by 2030



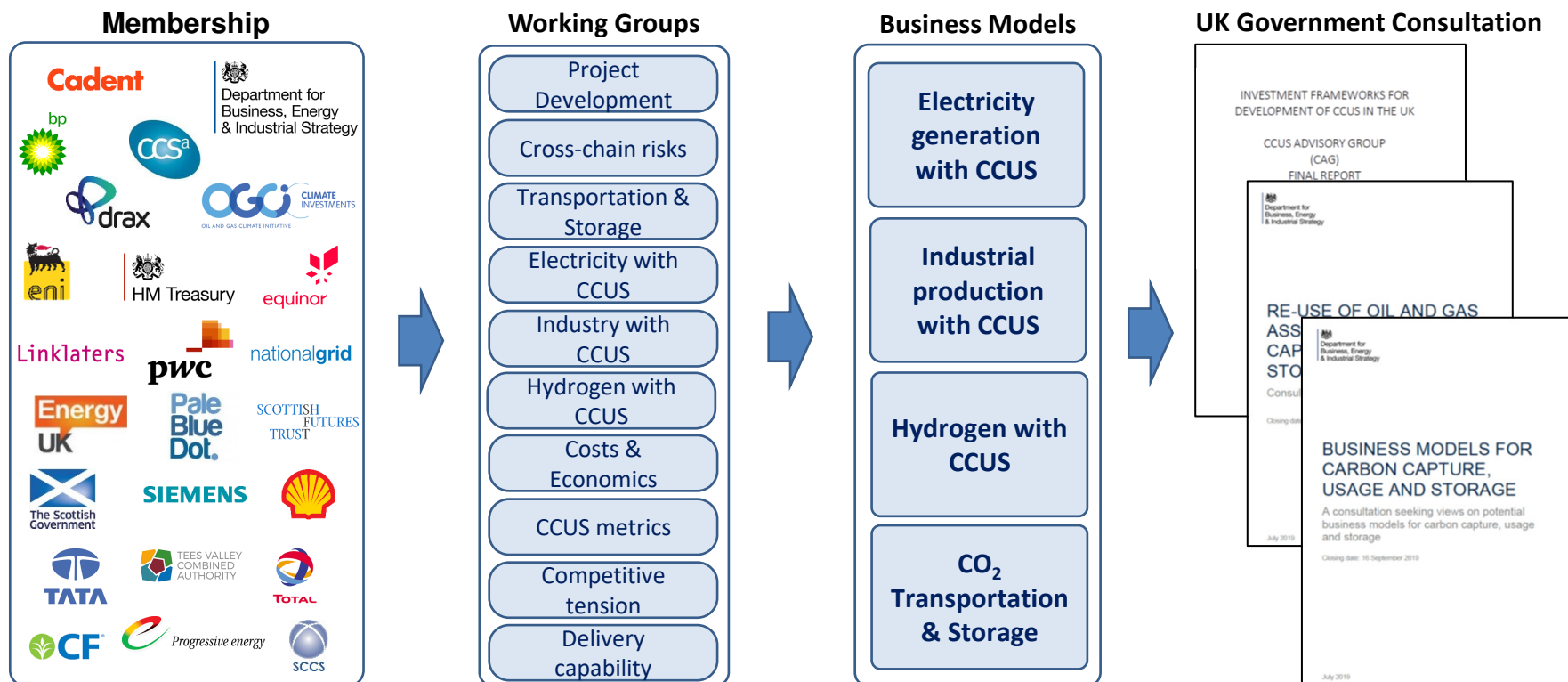
Teesside chosen from over 50 locations globally:

- Geographically compact
- Strong local political and industrial support
- Low cost CO₂ from H₂ and fertiliser plants
- Dispatchable power (CCGT + CCS)
- CO₂ from bioenergy and power from waste plants – negative carbon electricity

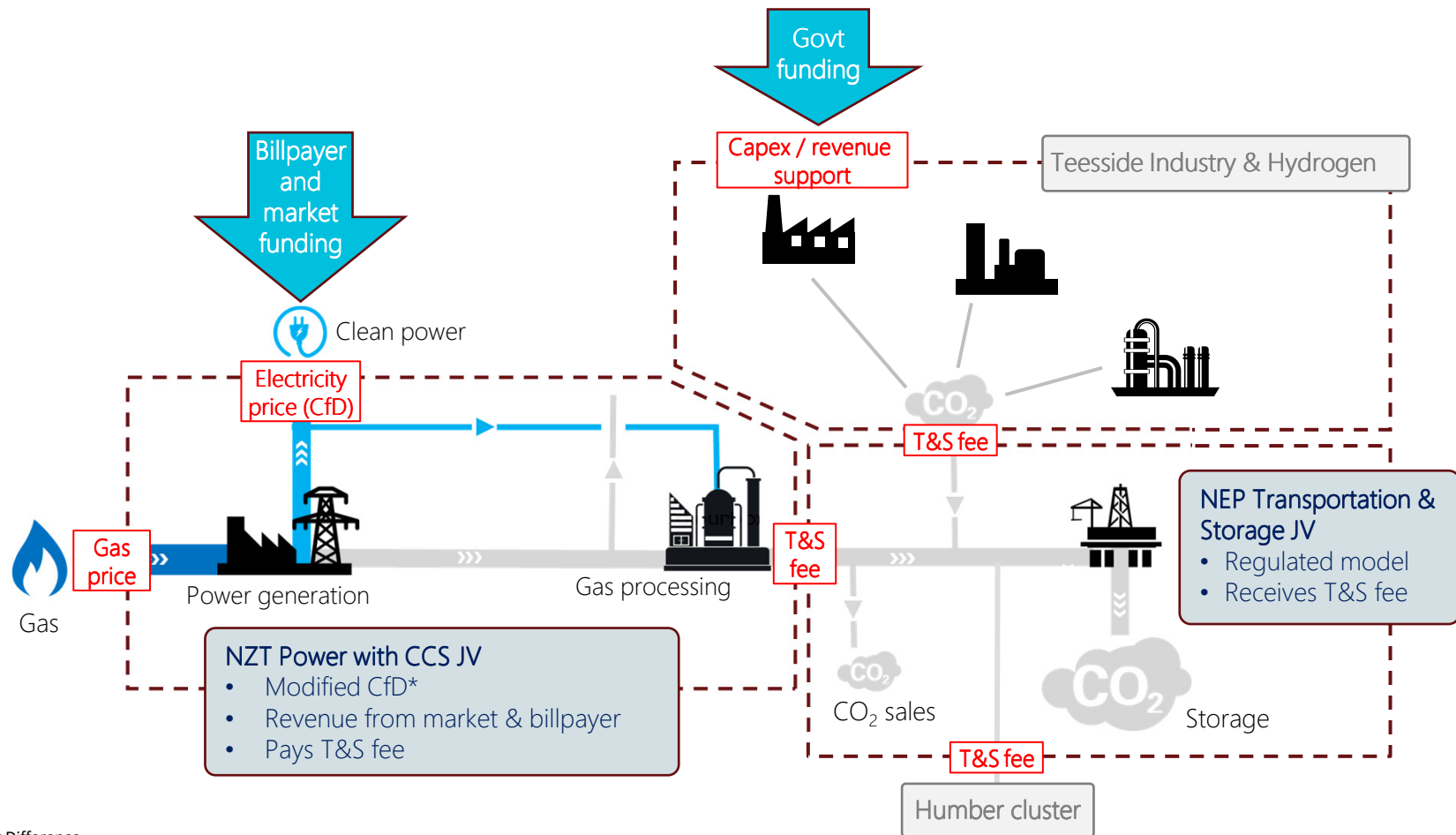


UK business model development

CCUS Advisory Group



NZT & NEP: Business Models



*Contract for Difference

NZT: Delivering value in a net zero power market



- Gas power with CCS can replace existing unabated gas, delivering low carbon dispatchable power
- Optimisation of power market under net zero shows significant value from gas with CCS
- Results robust across a range of scenarios reflecting assumptions on gas price, nuclear and renewables costs, system flexibility, etc.

