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**HUMBERZERO**

# Low Carbon Industrial Cluster

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# Humber Zero – Developing A UK Low-Carbon Industrial Cluster

## Concept Development and Pre-FEED

### Major Local Industries

- **VPII** – 1200 MW Combined Heat and Power Plant including 3 x CCGTs and 2 x Auxiliary Boilers
- **Phillips 66** – Advanced and complex refinery producing fuels including bio fuels and speciality products used in EV batteries

### Targets

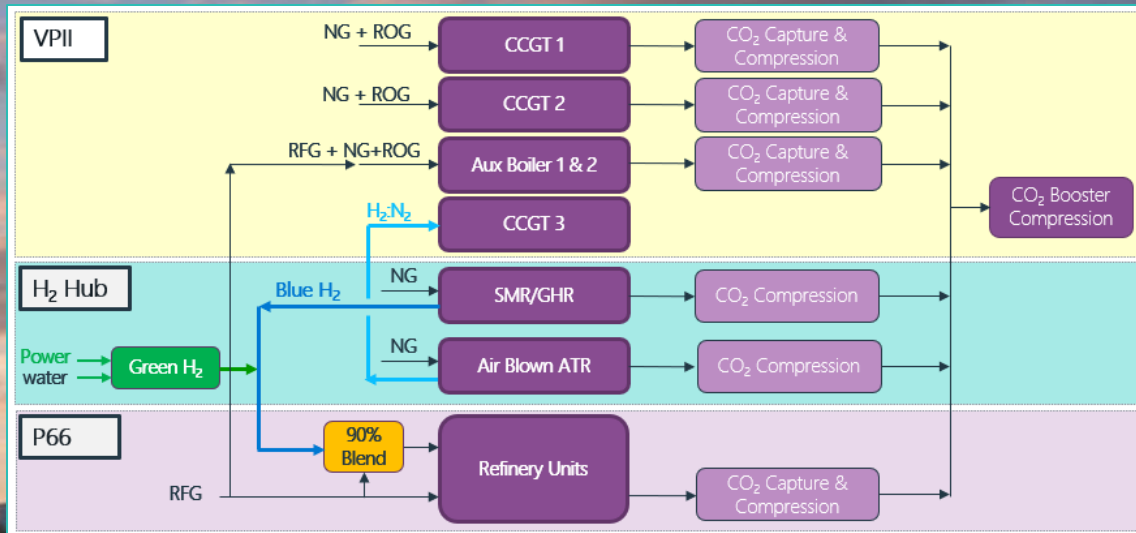
- Deep decarbonisation pathway as an integrated cluster
- Sufficient CO<sub>2</sub> capture to form anchor project (>1MTPA)
- Establish a substantial low carbon hydrogen hub demonstrating both production and use for industrial decarbonisation
- Avoid additional steam or power supply units



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## Up to 8 MTPA CO<sub>2</sub> captured:

- 6 x post-combustion retrofit units
- 800 MW advanced ATR blue hydrogen
- 140 MW advanced SMR blue hydrogen
- 50 MW green hydrogen demonstrator (100 MW electrolyzers)
- Hydrogen & CO<sub>2</sub> interconnecting pipelines
- CO<sub>2</sub> booster compression



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