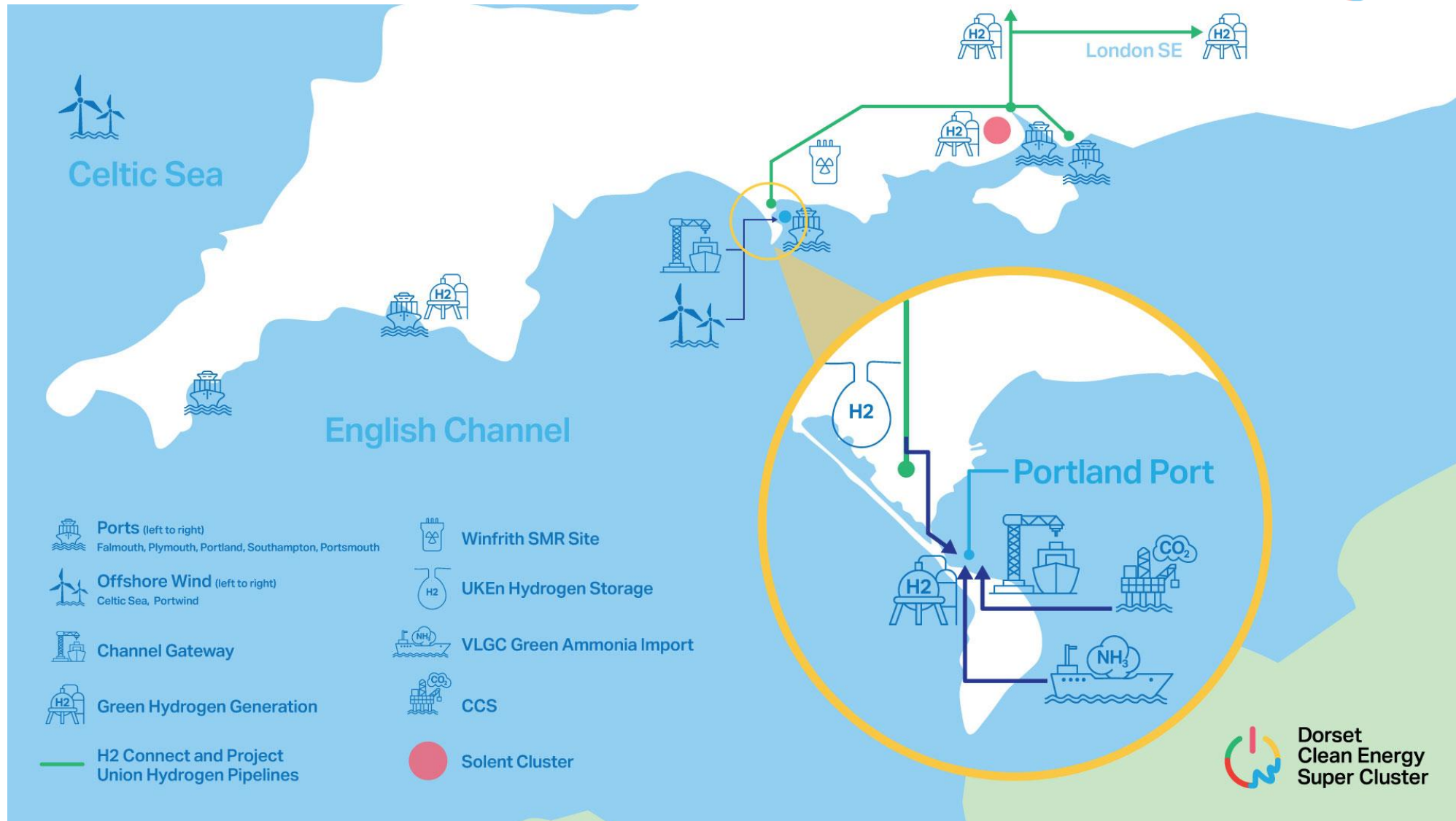


Dorset Clean Energy Super Cluster: £28bn investment



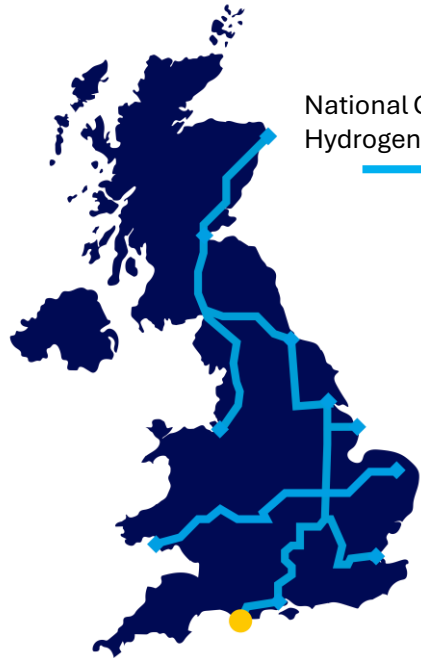
Dorset
Clean Energy
Super Cluster



UKEn South Dorset H₂ Storage



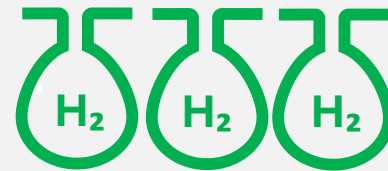
Dorset
Clean Energy
Super Cluster



National Gas Project Union
Hydrogen Pipeline

£1.5 bn Investment*
£2.3 bn/yr GVA**

- Key enabler for UK National Hydrogen system & Clean Power
- Up to 60-year life



**1 billion cubic
metres H₂ storage**

**Up to 30 TWh/year
energy equivalent**

- Sole at scale storage node in S UK
- Modular: up to 24 new salt caverns
- Critical for H₂ backbone pipeline extension into S UK



Up to 7,200
construction jobs**



Up to 135
operational jobs**



**Up to £0.7 bn/yr
GVA to Dorset****

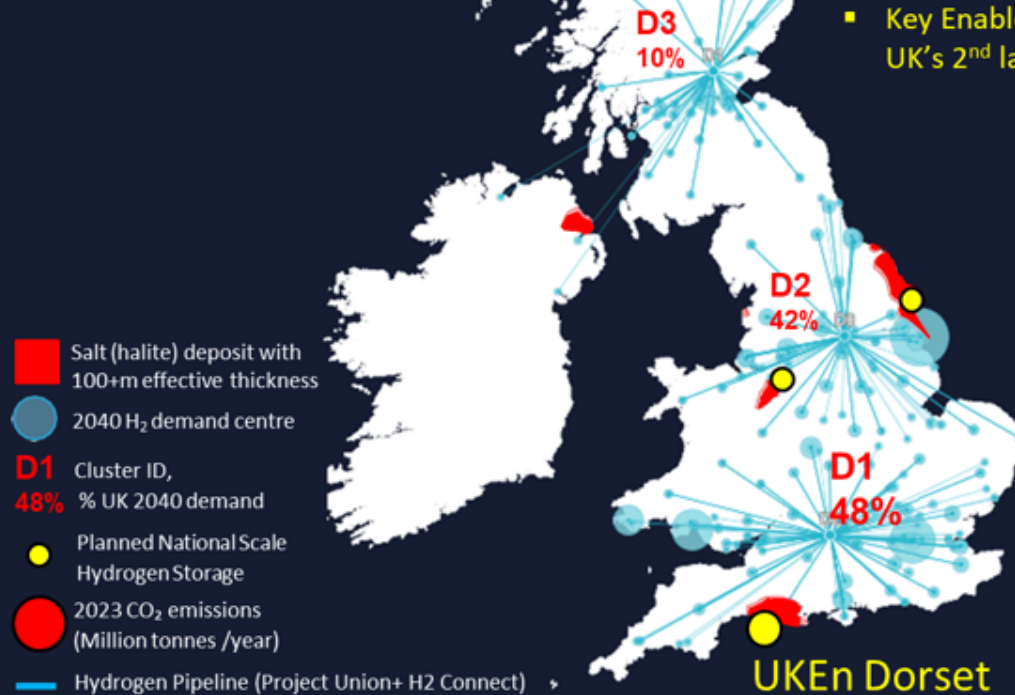
**Supercharge growth
via Clean Energy in
Dorset & S. UK**

Why Dorset H₂ Storage: Enabler for UK hydrogen



Dorset
Clean Energy
Super Cluster

2040 Hydrogen
Demand
~267 TWh



- UKEn Dorset only material scale salt cavern storage within South - largest H₂ demand area (48% of UK demand by 2040)
- Critical for extension of national hydrogen backbone pipeline into S. UK
- Key Enabler for decarbonisation of South, UK's 2nd largest CO₂e emissions area

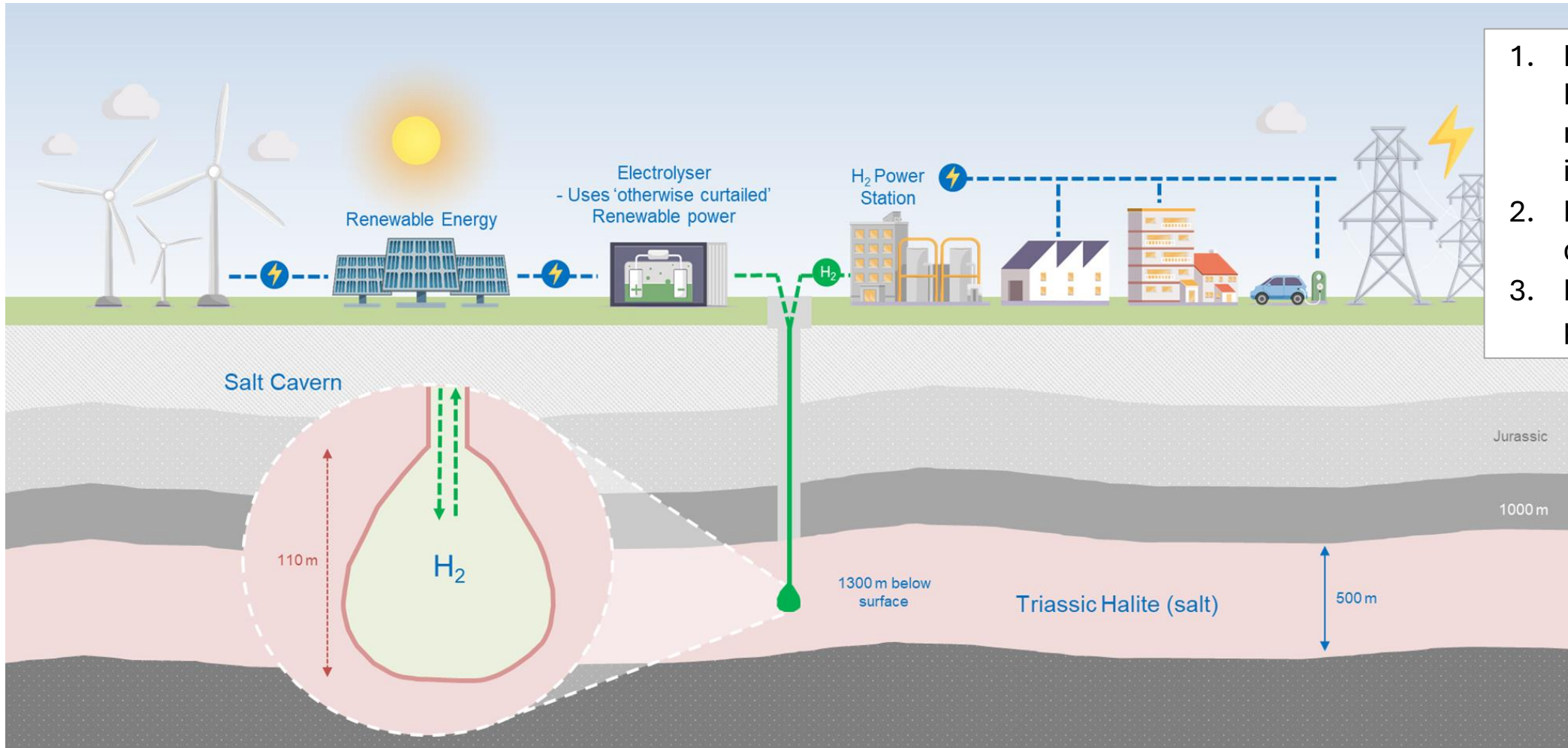
2023 CO₂e
Emitters

2023 Top 5 CO₂ emitters (Mt/yr):

1. Drax: 11.46
2. Port Talbot Steelworks: 5.71
3. Pembroke Power Station: 4.00
4. Scunthorpe Iron & Steel Works: 3.24
5. Fawley Refinery: 3.16



Why Hydrogen Storage & Salt Caverns?

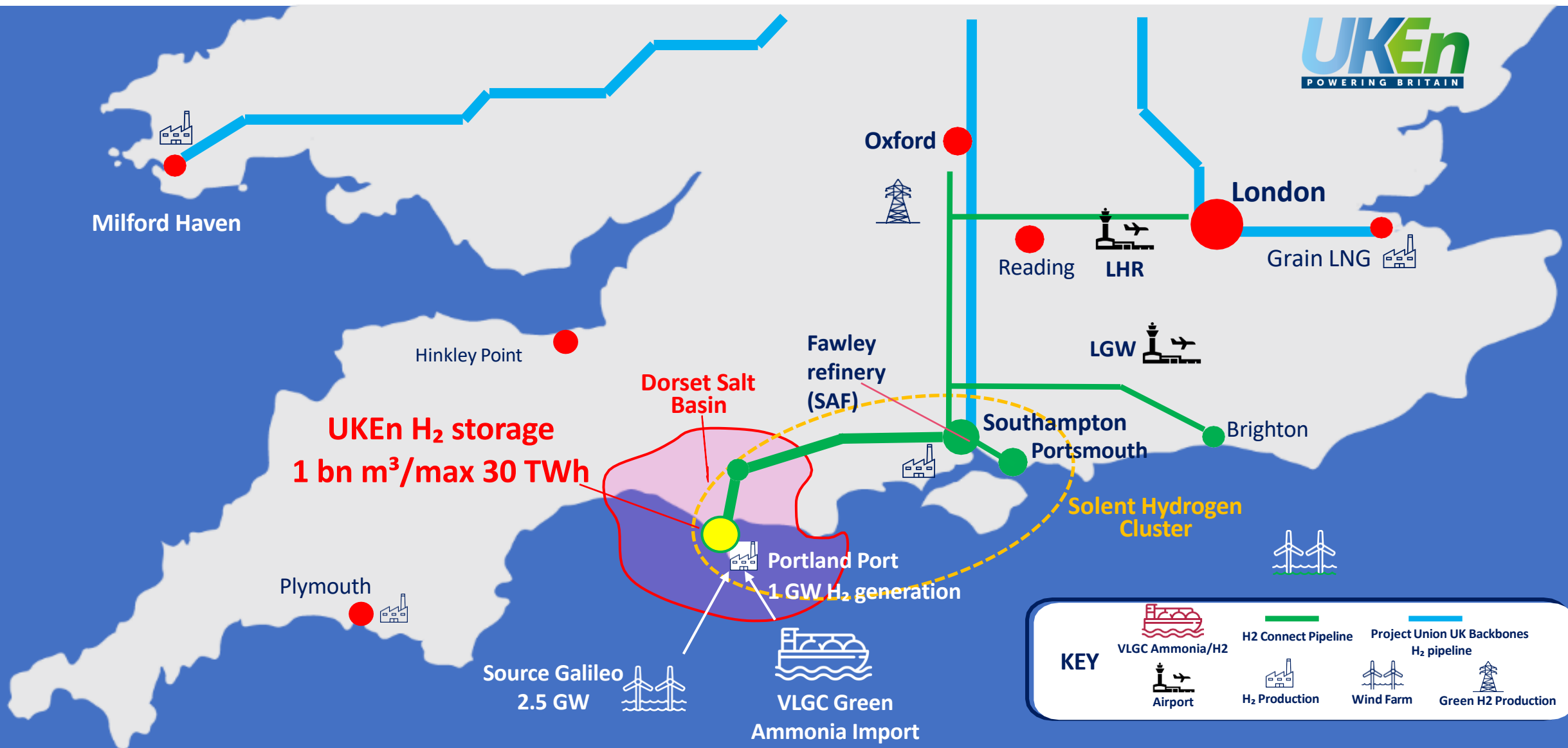


1. Hydrogen Battery: solve renewable intermittence
2. Balance supply & demand
3. Maintain pipeline pressure/fill

UKEn Dorset: Key element of UK H₂ infrastructure



Dorset
Clean Energy
Super Cluster



South Dorset Hydrogen Storage Economic Benefits



Dorset
Clean Energy
Super Cluster

Material Economic Benefits to UK and Dorset Economies

- £2.28 bn/year GVA during 30-60 year operational life (Quod Economic Impact report)
- 2,100 direct + 5,100 supply chain jobs, 135 permanent jobs in site operations

Significant National Scale Contribution to UK Energy Security

- Store equivalent of 14-27 days of UK electricity supply (i.e., ~4-8% of 2023 annual electricity demand)

Key Enabler for UK Hydrogen System and Decarbonisation in Southern UK

- Critical for extension of UK Backbone Hydrogen Pipeline 'Project Union' into Southern UK
- Direct synergy/pipeline link with proposed 1 GW green H₂ production/import at Portland Port
- Decarbonisation of dispatchable electricity via switch to "H2P" (e.g., Chickerell, Marchwood, Didcot et al)
- Supports H₂ demand/decarbonisation for:
 - Solent Cluster SAF production at Fawley to decarbonise LHR and LGW
 - Southampton and Portsmouth International Maritime Organisation (IMO) 2030 fuel targets