South Dorset Hydrogen Storage Project Overview





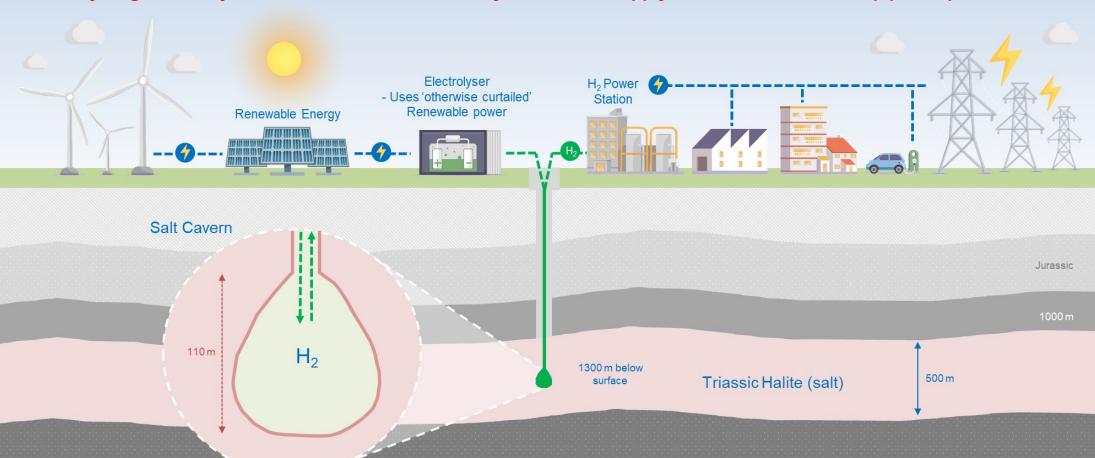
UK March 2025



Why Hydrogen Storage & Salt Caverns?

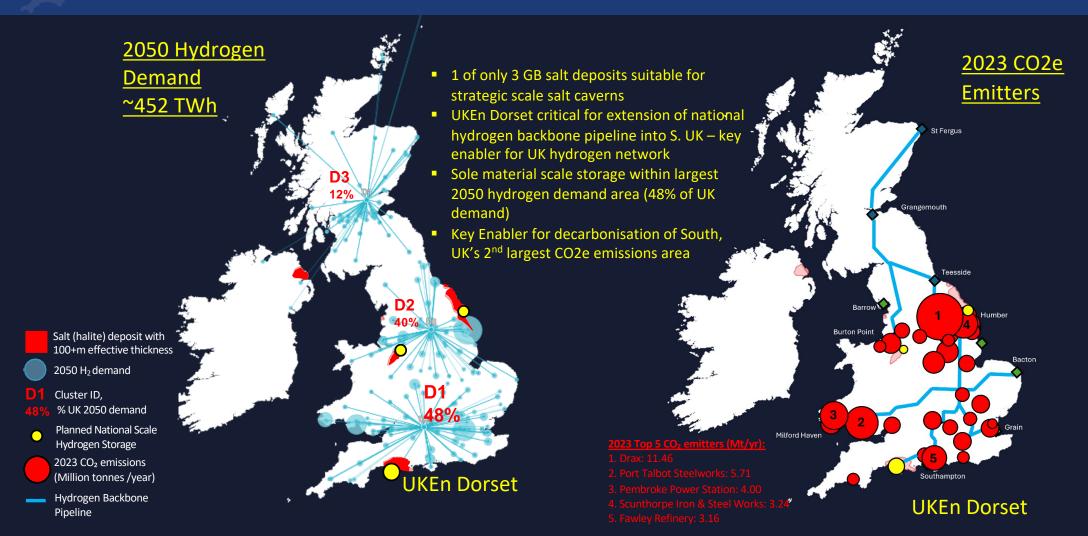


1. Hydrogen Battery: solve renewable intermittency 2. Balance supply & demand 3. Maintain pipeline pressure/fill



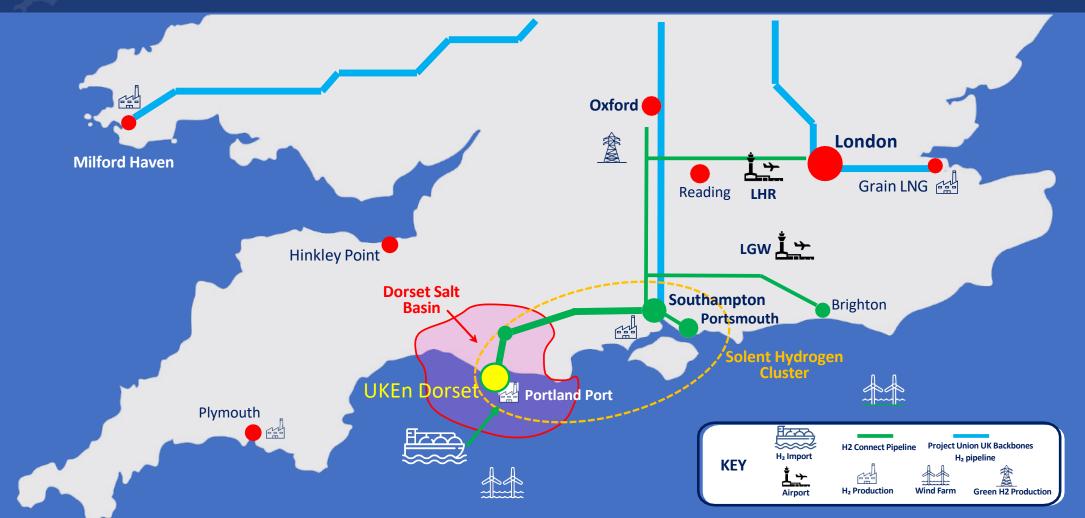
Why Dorset H₂ Storage: Strategic enabler for UK hydrogen





UKEn Dorset: A key element of S. UK H₂ infrastructure





South Dorset H₂ Storage Facility Benefits



Material Economic Benefits to UK and Dorset Economies

- £2.28 bn/year GVA during its 30-60 year operational life (Quod Economic Impact report)
- Job creation: up to 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)
- Supply ~15-31% of high end¹ 2050 UK H₂ storage demand forecasts*
- Supply ~60% of AFRY 2035 UK H₂ storage demand forecast

Key Enabler for UK Hydrogen System and Decarbonisation in UK & Southern England

- Critical for establishment of UK Backbone Hydrogen Pipeline into Southern UK
- 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
- Direct synergy/pipeline link with proposed 1GW green H₂ production at Portland Port