

Delivering net zero: UKCS in transition

Westminster Energy Forum

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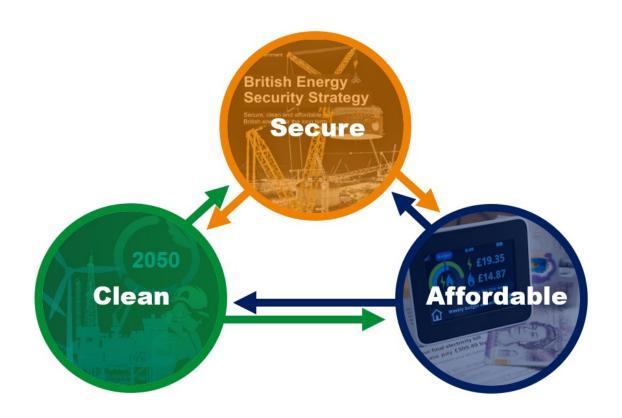
30 November 2022

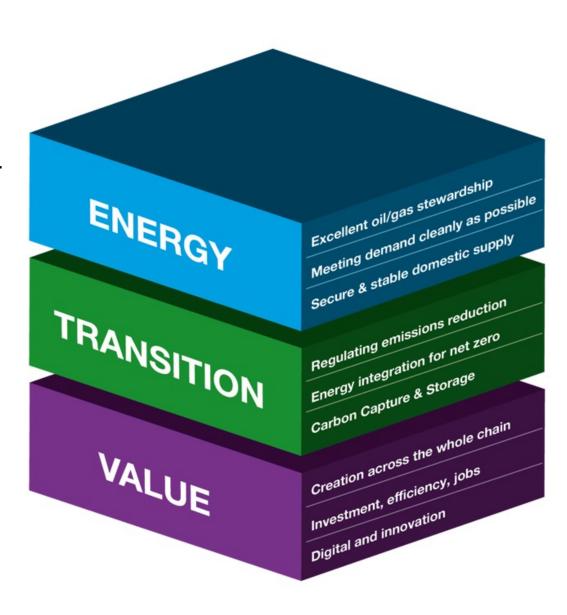
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The North Sea Transition Authority is the business name for the Oil & Gas Authority, a limited company registered in England and Wales with registered number 09666504 and VAT registered number 249433979. Our registered office is at 21 Bloomsbury Street, London, United Kingdom, WC1B 3HF.

 We regulate and influence the oil, gas and carbon storage industries. We help drive North Sea energy transition, realising the significant potential of the UK Continental Shelf as a critical energy and carbon abatement resource. We hold industry to account on halving upstream emissions by 2030.





Big picture - Major growth opportunity

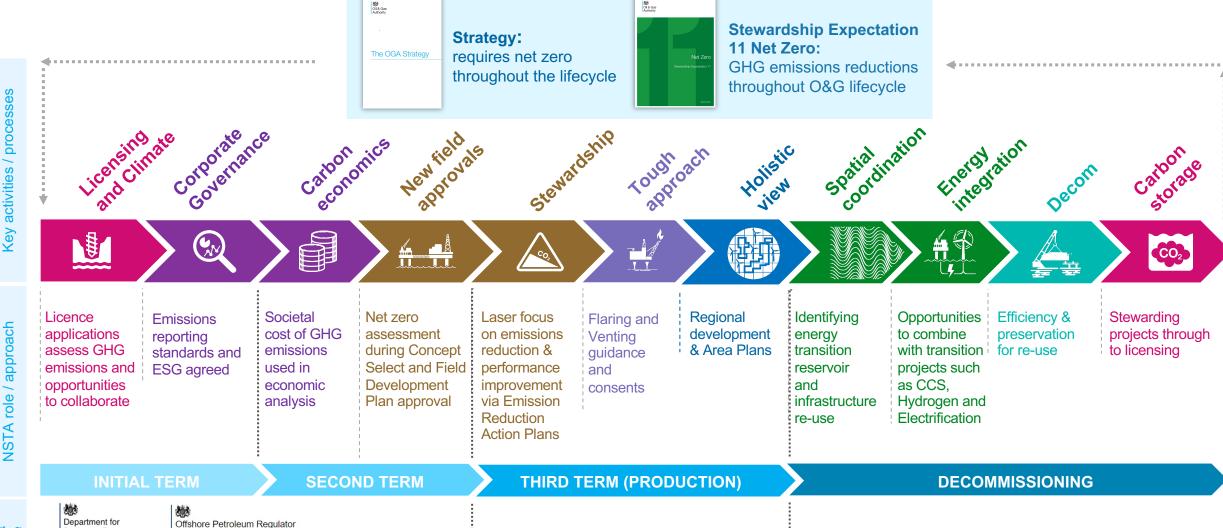




NSTA life cycle approach to net zero regulation







Key govt interface

Climate Compatibility
Checkpoint

for Environment & Decommissioning

Business, Energy

& Industrial Strategy

Environmental Statement / assessment under EIA Regs

ETS Annual Emissions Reports Environmental consenting, emissions monitoring, regulation

Decommissioning Environmental Appraisal (EA)

Tonnes

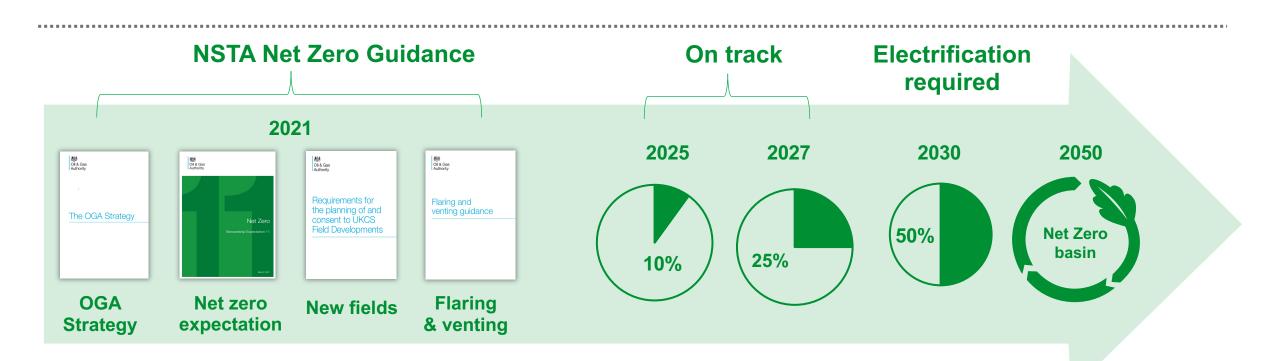
avoided

since

Jan 21

- Updated guidance and expectations
- Monitoring and tracking progress
- More needs to be done

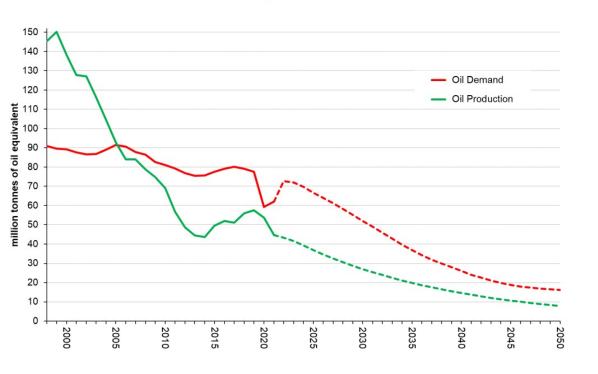




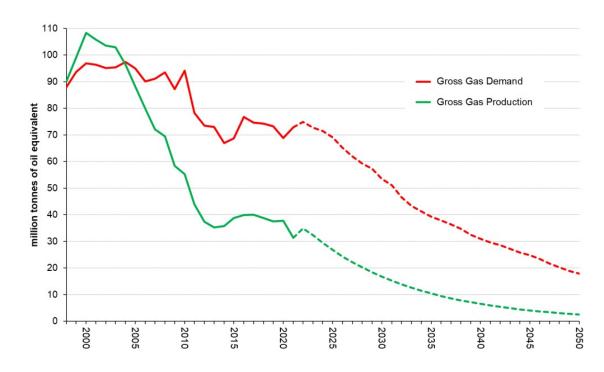
Climate compatible?



UK Oil: CCC Balanced Net Zero Pathway Demand and NSTA Production Projections



UK Gas: CCC Balanced Net Zero Pathway Demand and NSTA Production Projections





33rd Offshore Licensing Round

- Application period opened 8 October 2022
 - Closing 12 January 2023

Carbon storage

North Sea Transition Authority

UKCS Carbon Storage Potential

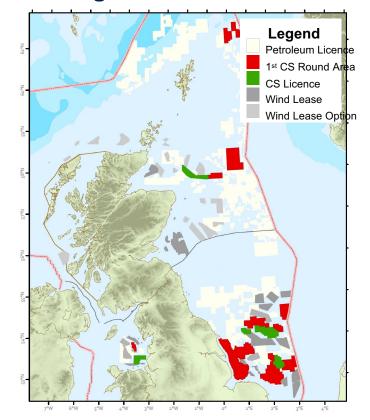
78 GtCO₂

Potential storage capacity (BGS estimate)

100s yrs

of UK storage needs in the UKCS

75-180
MtCO₂pa
injection required by
2050
(full range of CCC
scenarios)





As of December 2022, the NSTA

- has awarded 5 carbon storage licences, and extended duration of one carbon storage licence
- is stewarding <u>6 carbon storage licences</u> across 4 projects towards storage permit application and first CO₂ injection on the UKCS
- launched first ever UK carbon storage licensing round
 - closed 13 September
 - 26 applications across all 13 offered areas





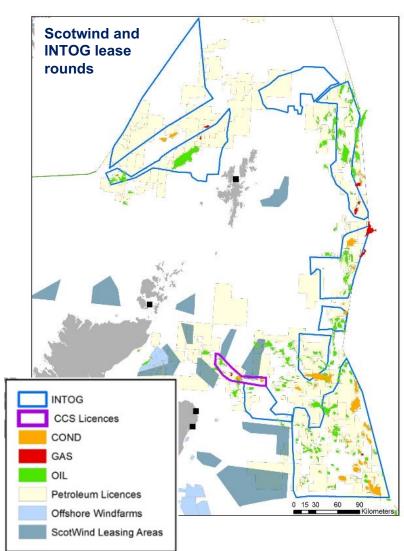




Integration opportunities



Windpower growth and electrification





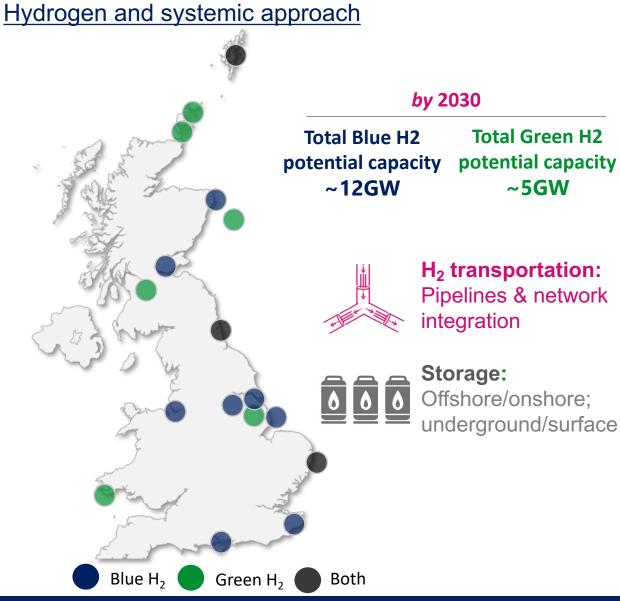
~10MtCO₂pa O&G offshore emissions from power generation



~2.5 GW O&G power demand (continuous)

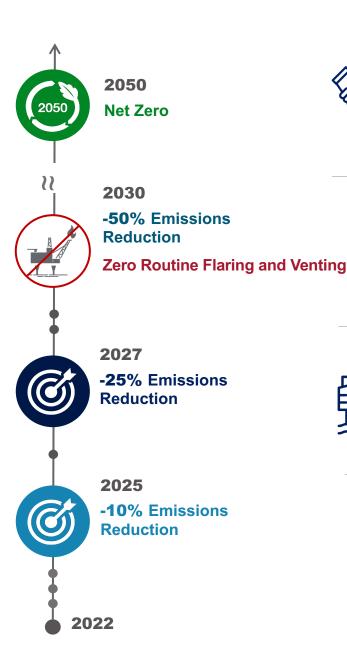


Windpower growth near **O&G** areas, opportunity to supply clean energy



Vital year and decade of delivery







Continued investment

- Oil and gas to meet demand profile
- CCS and renewables



Further emissions reduction

- Critical to exceed targets
- Electrification crucial



Transition plans

- Transparent and specific to each operator
- Tripartite collaboration



Value Creation

- Exchequer revenues
- Global supply chain in new technologies



Thank you