



Oil & Gas
Authority

Energy Integration Project



Department for
Business, Energy
& Industrial Strategy

ofgem

**THE CROWN
ESTATE**

**Crown Estate
Scotland**
Oighreachd a' Chrùin Alba

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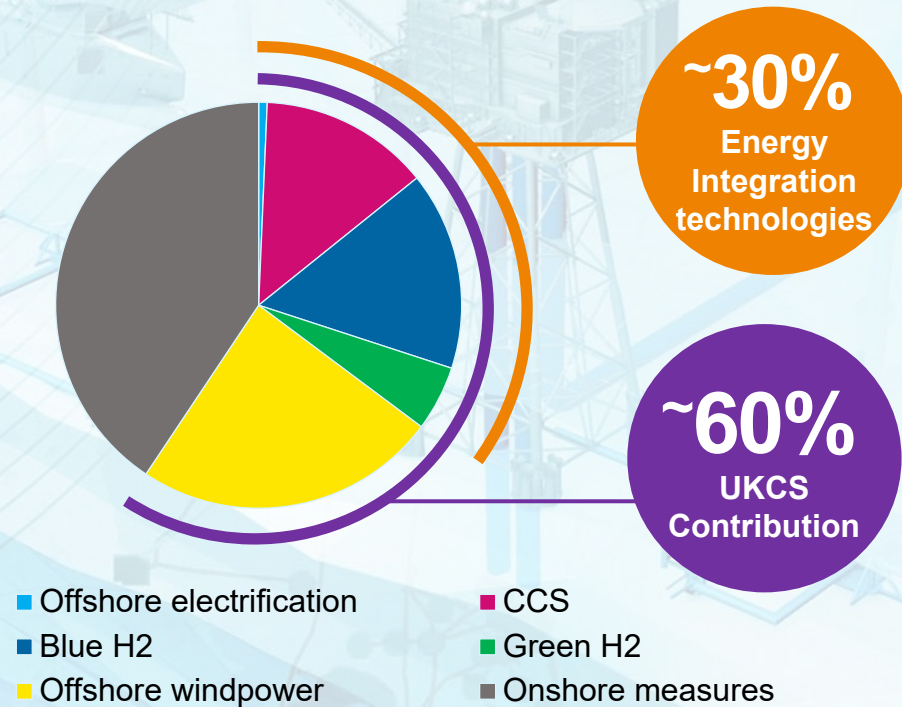
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Energy Integration Project

Phase 1

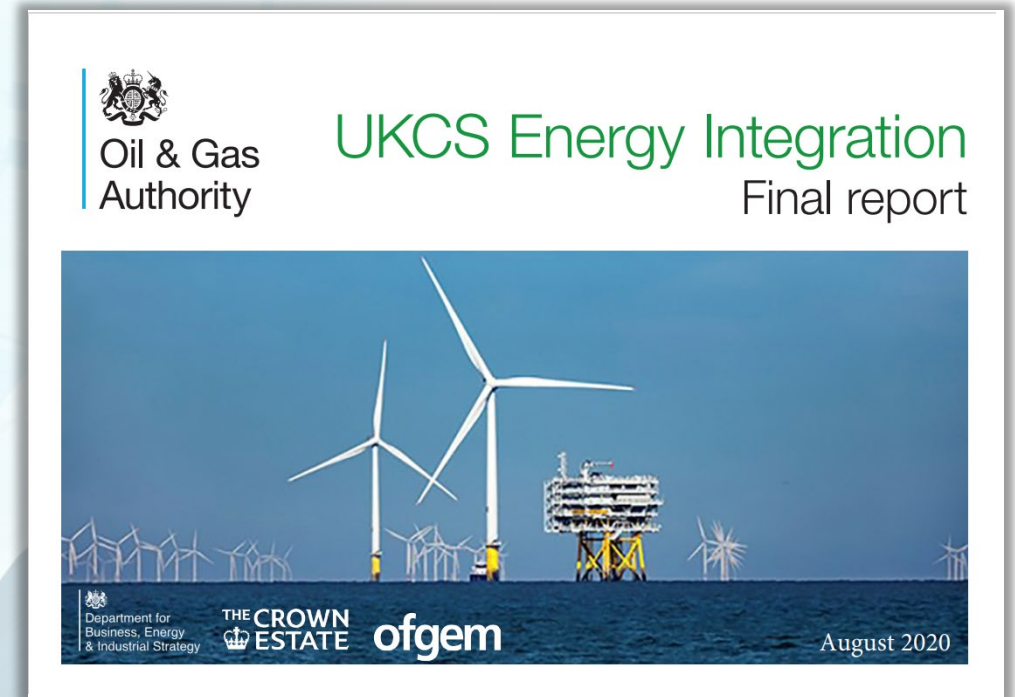
of the Energy Integration Project highlighted the role of the UKCS as a critical 'energy asset' to support delivery of the UK 'net zero by 2050' target

2050 net zero emission abatement from 2018 baseline



Phase 2

published in 2020, summarised the technical, economic and regulatory findings along with recommended actions to accelerate delivery of the UKCS energy integration project



Energy Integration Project

Phase 3



of the project, in 2021, supported the practical implementation of selected energy integration concepts focusing on three areas:



Net zero projects

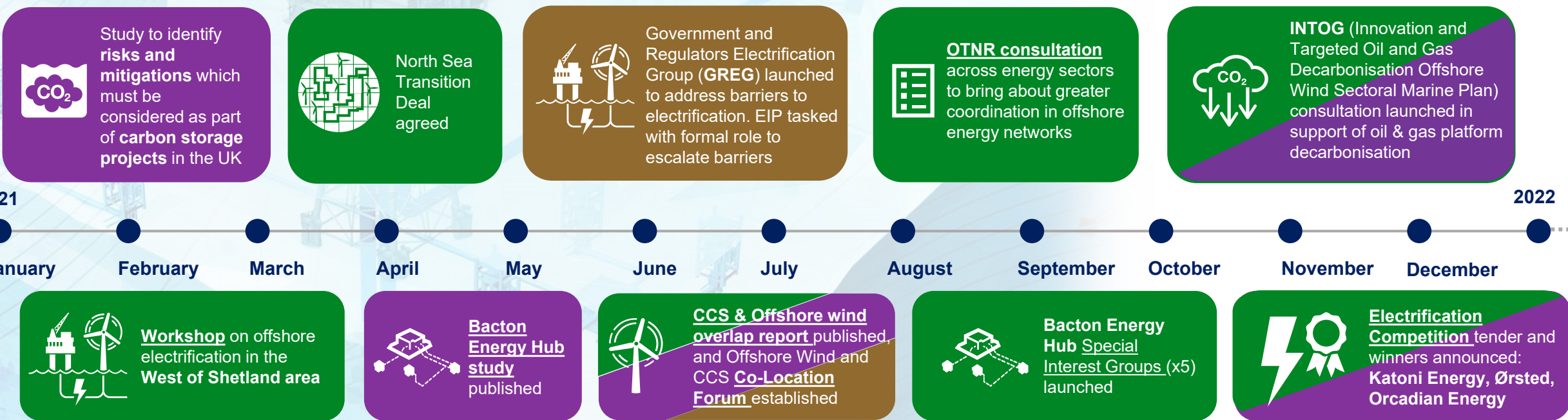


Technical studies



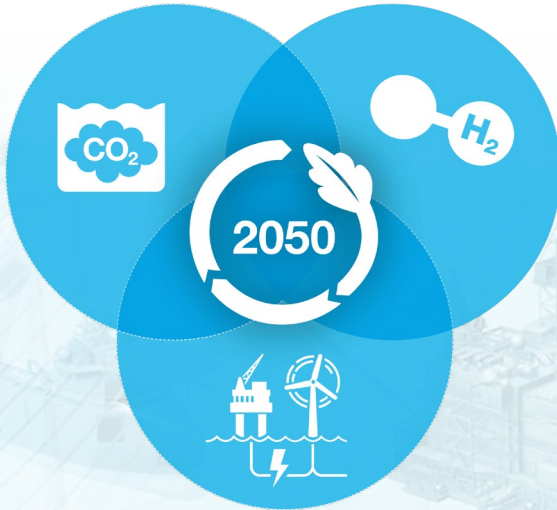
Regulatory coordination

Phase 3 of the project concluded in December 2021 having supported significant initiatives in this period. Project partners have now embedded energy integration in their core activities, and will continue to work together in business-as-usual settings to help realise the full UKCS energy and carbon abatement potential.



While each initiative was led by a specific organisation, all participants in EIP Phase 3 input resource and expertise into every project described above

Energy Integration Project

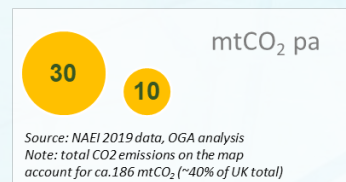


Net zero projects

Support and track pipeline of energy integration projects to improve cross-industry coordination and support project delivery.

Onshore CO₂ emissions

15 largest UK emitters (areas with 30km radius)



Acorn

2 Mtpa mid 2026 (with blue H₂);
7 Mtpa by 2030
Re-uses existing infrastructure

STOREGGA
Harbour Energy

Hynet

1 Mtpa from mid 2025;
3+ Mtpa by 2030 (with blue H₂)
Re-uses existing infrastructure

Offshore net zero projects (ongoing)

- CCS licences
- Further projects
- CCS
- CCS / Blue H₂
- Green H₂
- Electrification
- Re-use/repurposing
- Windpower integration

WoS electrification

Northern Horizons

10GW floating wind
Green hydrogen, synthetic fuel, ammonia

ORION

Shetland renewable energy hub

Flotta H₂ Hub

CNS/OMF electrification

East Coast Cluster (Teesside, Humber and NEP)

4 Mtpa from 2026
10+ Mtpa by 2030
3.3GWe hydrogen production capacity

V Net Zero (Humber)

3.6 Mtpa from 2027
11 Mtpa by 2030
Re-uses existing infrastructure

Bacton Hub

Early stage, potential for H₂ supply into London area



Technical studies

Improve and disseminate data through technical studies and knowledge sharing



Regulatory coordination

Identify and mitigate barriers to implementation of CCS, hydrogen and electrification projects