Supporting the energy transition

Offshore Europe – September
Case for change

Debate more polarised than ever – quality dialogue and evidence based action required

UK Oil demand and production

UK Gas demand and production

MER UK

Strong supply chain, exporting globally

Energy security

Anchor skills in UK

Diversification, transition to net zero 2050
UKCS is a critical energy asset

Huge opportunity ahead
Maximising domestic gas production as important transition fuel

Emissions benefits from increased operating efficiency and extended assets life

Consistency of offshore flaring and venting regime with government policy

Licensing of carbon storage and advice prior to decommissioning

Enhanced Oil Recovery

Understanding offshore energy integration, including electrification & hubs

Supporting diverse range of supply chain options

OGA fully supports energy transition as set out in our policy
Carbon capture and storage

OGA CCS role

Working collaboratively with government and industry

Licensing and permitting authority for carbon storage – OGA issued first licence Dec 18

Consider re-use as part of the OGA Cessation of Production process

Promoting role of CO₂ EOR

78 GtCO₂
75-175 MtCO₂
6 to 15

total UKCS CO₂ storage resource estimate

CCC estimate of annual requirement in 2050

large scale (12 MtCO₂ per year) CCS projects in 2050

<$0.5 boe to support CCS transport and storage to offset UKCS production emissions
(5% of the reduction in operating costs achieved since 2014)

2019 important year for CCUS with action plan underway

Positive steps in BEIS policy development
UKCS Energy Integration project

- Funded by £1m grant
- Led by OGA, in collaboration with BEIS Crown Estate and Ofgem
- Quantify and help unlock UKCS energy integration opportunities
- CCS enabler for energy transition – leverage O&G infrastructure
- Potential integrating multiple sources: renewables, O&G, and H₂
- Oil and gas companies and supply chain will play a critical role in delivery

**Activity** | **Schematic**
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Platform Electrification
Reduce costs and emissions

Gas-to-Wire
Power from gas offshore, Transmitted to shore

CO₂ transport and storage
Re-use of infrastructure and fields

Power-to-Gas
Offshore windfarms produce hydrogen

North Sea Wind Power Hub
Large scale hydrogen production
Encouraging industry interest and activity

We all need to work together to get projects over the line as soon as possible.

Oil & Gas Authority
Thank you