



North Sea  
Transition  
Authority

# Energy Transition

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## Renewables, Hydrogen and CCS

Brenda Wyllie

Northern North Sea & West of Shetland Area Manager

1<sup>st</sup> Nov 2022

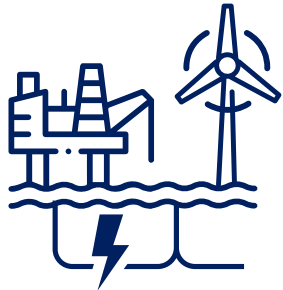
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The North Sea Transition Authority is the business name for the Oil & Gas Authority, a limited company registered in England and Wales with registered number 09666504 and VAT registered number 249433979. Our registered office is at 21 Bloomsbury Street,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

## ENERGY



Oil, gas & CCS stewardship

Meeting demand as cleanly as possible

Secure, stable & affordable domestic supply

## TRANSITION



Regulating emissions reduction

Energy integration for net zero

Carbon Capture and Storage

## VALUE



Strong supply chain

Investment, efficiency, jobs

Digital and innovation

# Reinforcing our focus on net zero



**New Strategy**

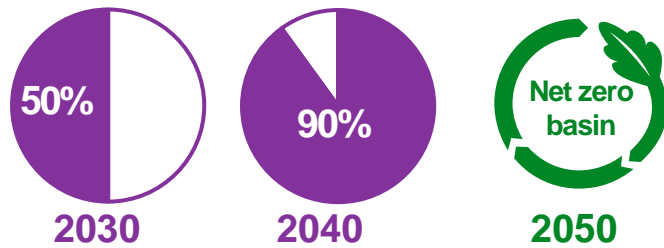
Requirement to take account of net zero considerations

New supporting obligations on CCS

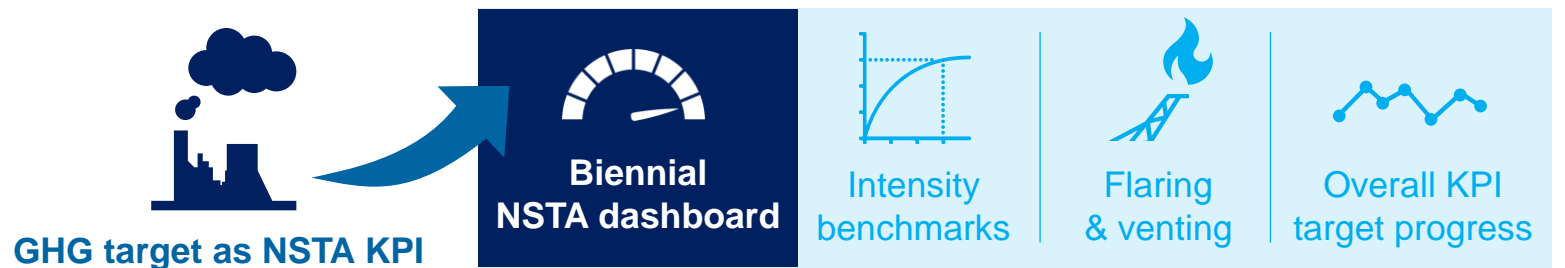
Came into force Feb 2021

Supported by suite of guidance: net zero stewardship expectation, flaring and venting, FDP, carbon valuation methodology

## Industry commitment to reducing upstream GHG emissions



## NSTA tracking and monitoring progress



GHG target as NSTA KPI

Biennial NSTA dashboard

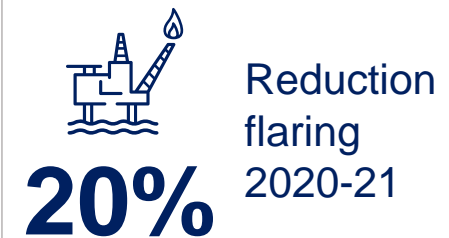
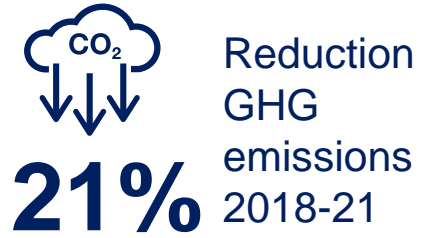
Intensity benchmarks

Flaring & venting

Overall KPI target progress

Emission Reduction Action Plans in place for all assets

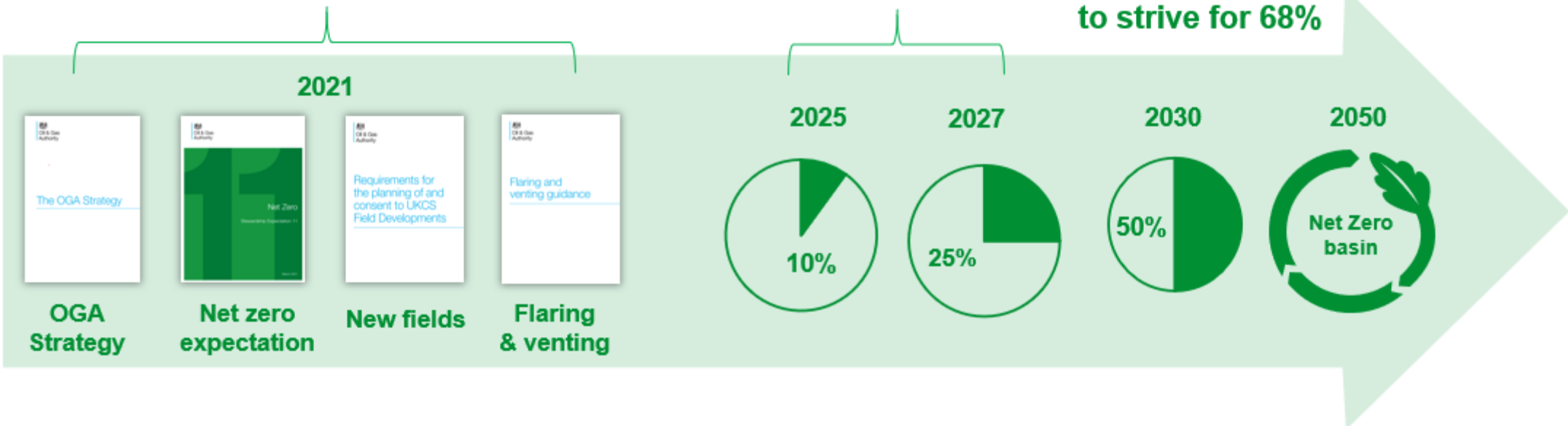
# Delivering the NSTD: Emissions reductions



NSTA expects targets to be met as absolute minimum

On track

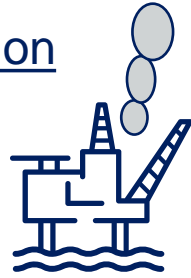
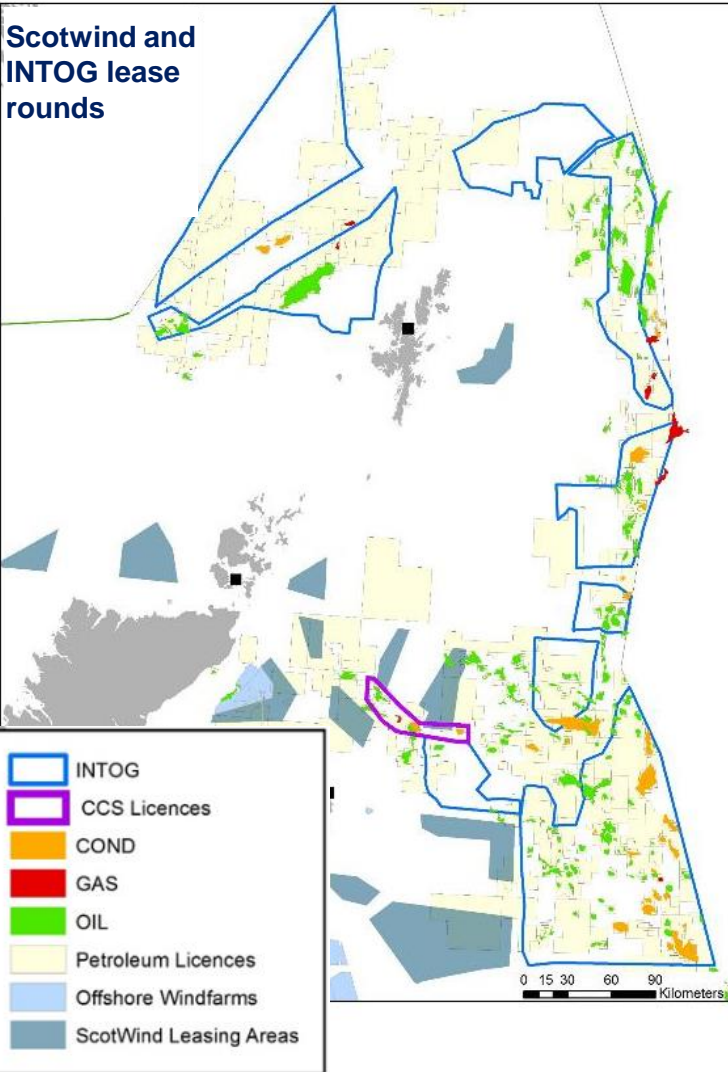
Need industry to strive for 68%



**NSTD £16bn Deal – first of its kind from a G7 Country**

# Integration Opportunities

## Wind power growth and electrification



~10MtCO<sub>2</sub>pa  
O&G offshore emissions  
from power generation



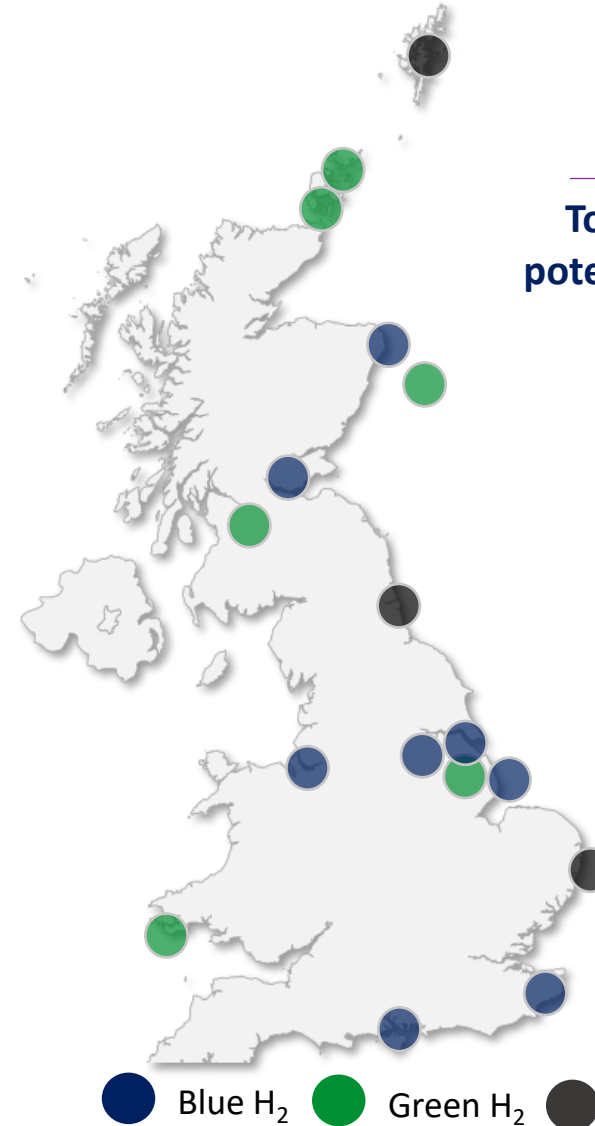
~2.5 GW  
O&G power demand



Wind power growth near  
O&G areas,  
opportunity to  
supply clean  
energy

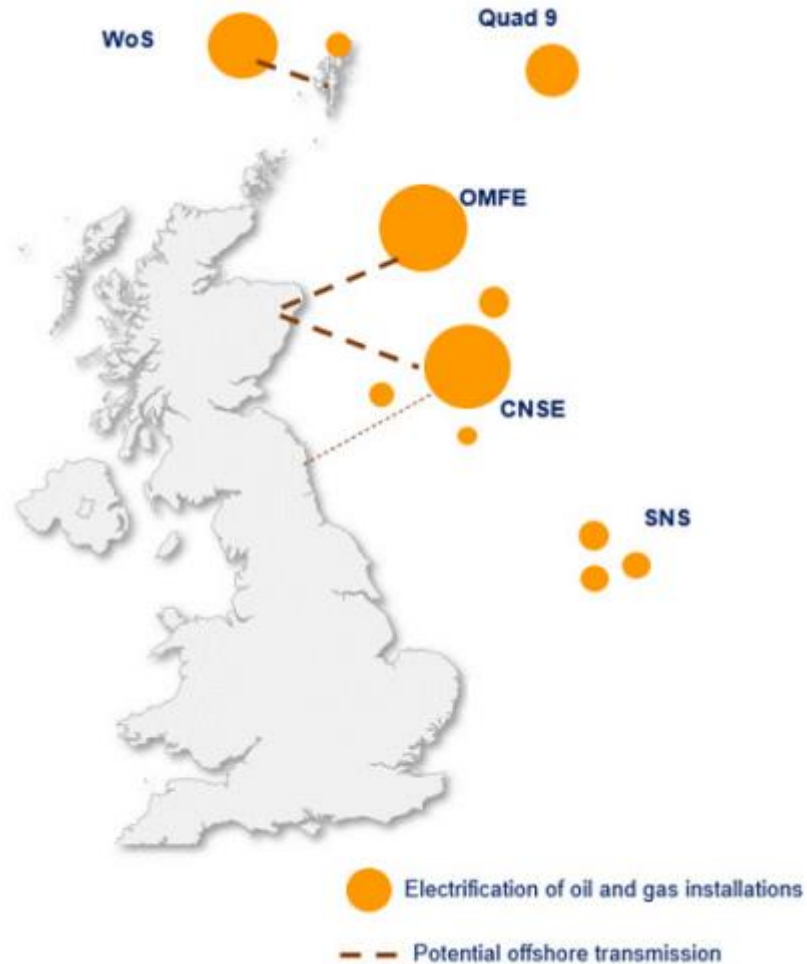


## Hydrogen and systemic approach



Synergies realise net zero delivery and emission abatement at reduced Capex

# Electrification – more sizeable emission reductions and synergies with wind power



- A number of projects to reduce emissions are considering **electrification from renewable sources**
- Electrification can also **accelerate**:
  - Floating wind growth
  - Offshore green H2 production
  - Sharing cost of transmission infrastructure
  - Power future CCS
- **Regulatory coordination** to allow cross-industry projects
- **INTOG wind leasing round** in Scottish Waters

# Making progress

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## Equinor expects £80m investment in Rosebank FPSO electrification

Equinor (OSLO:EQNR) and its Rosebank partners expect to spend around £80 million on modifications to the Knarr FPSO which will ready the vessel to run on low-carbon power.

17/08/2022, 7:00 am [By Andrew Dykes](#)



© Supplied by Alterra Infrastructur

The Knarr FPSO, which Equinor intends to modify to support the full electrification of the Rosebank field.

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## New North Sea oilfield Avalon to be developed with FPSO and floating wind combo

A "key milestone" has been reached for Avalon, a new oilfield in the UK North Sea, to go ahead.



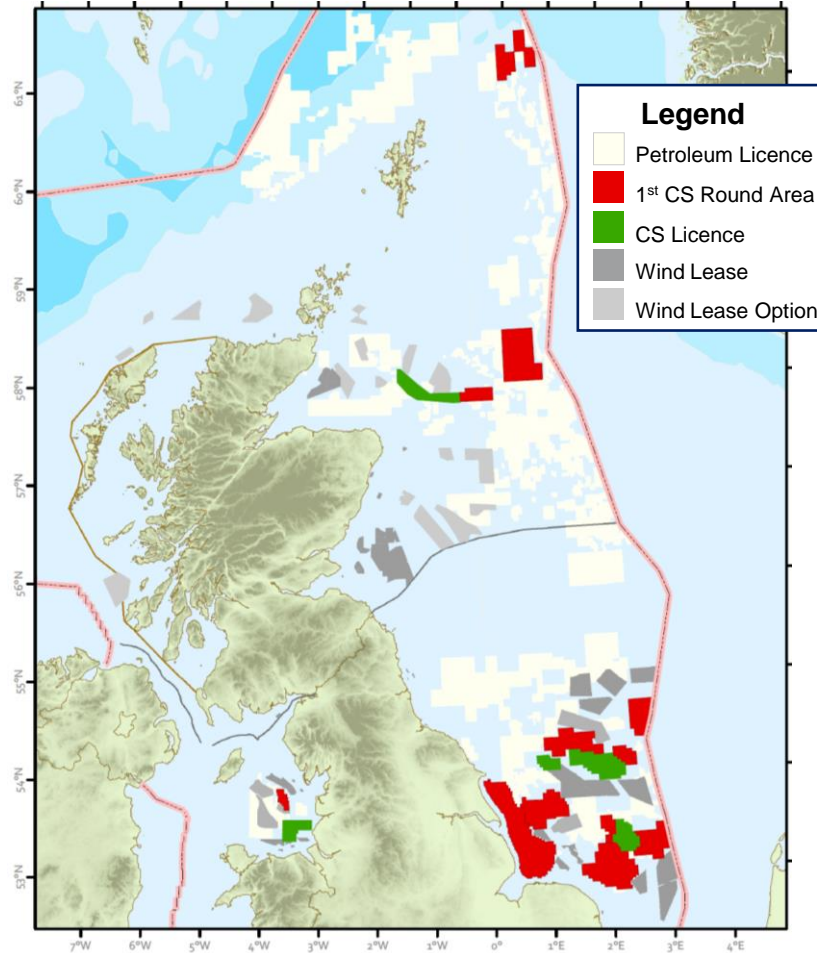
# Carbon capture and storage

Potential  
78 GtCO<sub>2</sub>  
Capacity

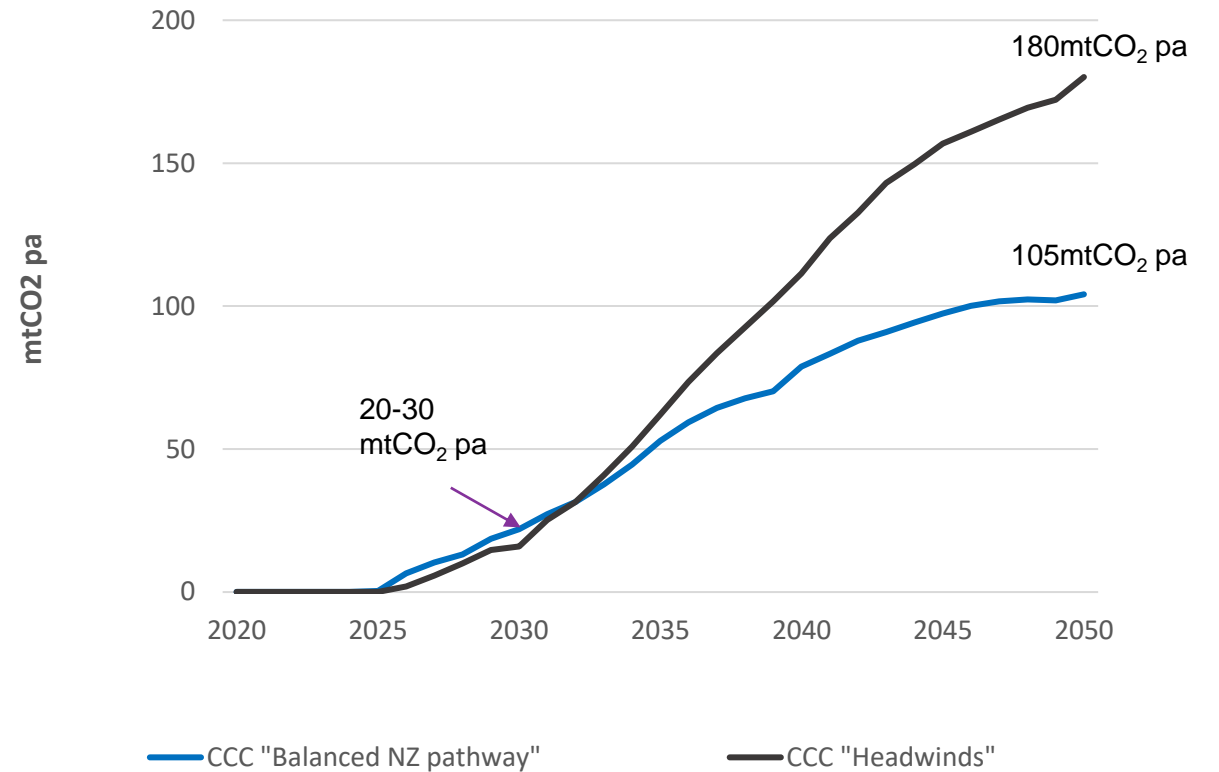
75-180  
MtCO<sub>2</sub>pa  
Required

(full range of CCC  
scenarios)

2022  
Licensing  
Round  
underway



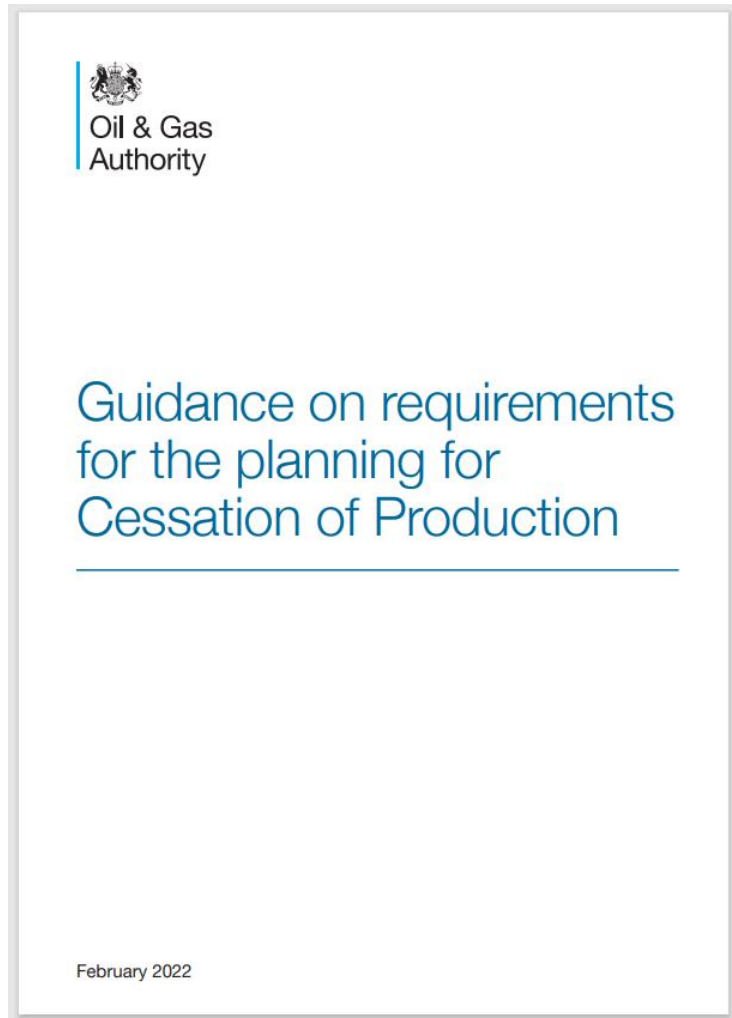
## CCS growth scenarios<sup>1</sup>



1) Climate Change Committee: Net zero pathways (2021) "Balanced" and "Headwinds" cases

Accelerate investment and grow CCS to scale





## NSTA Retire the COP Process

In late Field life, the Field Operator and Licensees have been expected to confirm with the North Sea Transition Authority ('NSTA') whether the NSTA will have any objection to the Field ceasing production, permanently, at a specified time.

This will now be completed via:

- UKSS
  - COP date consistent for 3 years
  - Stewardship Expectation 07 – Commercial alignment and delivery
  - Stewardship Expectation 10 – Cost effective decommissioning
  - Stewardship Reviews targeted, prioritised and specific
- Use of Regulatory Powers
  - The OGA Strategy
  - The Energy Act
- Greater emphasis on quality of Relinquishment Report

**No longer a requirement to submit a COP Document**

## Job Vacancies

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**Director of Regulation**  
**Director of Supply Chain and Decom**  
**Director of New Ventures**  
**Geospatial Specialist**

*Location:* Home and London/Aberdeen

More details on the roles and the application process are available on the NSTA website:

<https://www.nstauthority.co.uk/careers/current-vacancies/>





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# Thank you

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