



North Sea  
Transition  
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# The Future of the North Sea: Energy Transition in Action

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## Keynote Presentation: DEVEX 2022

Andy Brooks, CNS Area Manager

10<sup>th</sup> May 2022

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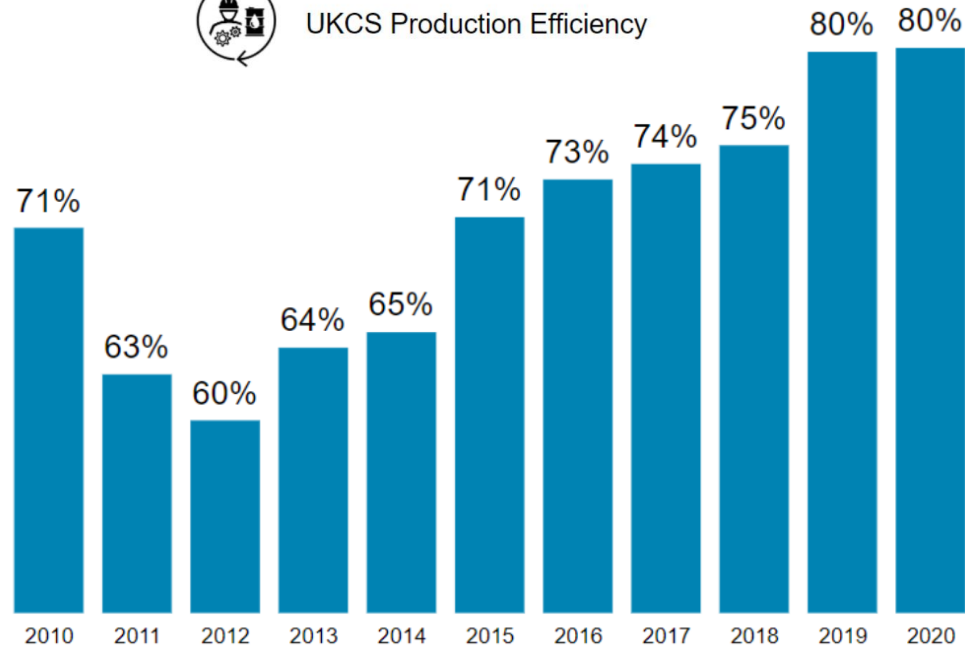
The North Sea Transition Authority is the business name for the Oil & Gas Authority, a limited company registered in England and Wales with registered number 09666504 and VAT registered number 249433979. Our registered office is at 21 Bloomsbury Street, London, United Kingdom, WC1B 3HF.

## UK Continental Shelf (UKCS) maximising recovery of oil and gas - Review by Sir Ian Wood

Final report by Sir Ian Wood into how to maximize recovery of oil and gas in the UK Continental Shelf (UKCS)



UKCS Production Efficiency

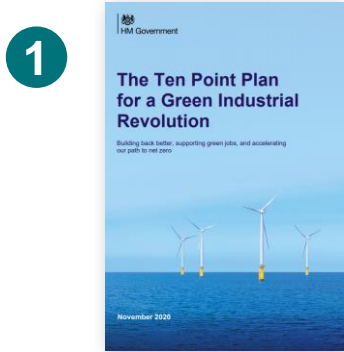


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**Call to Action:**  
The Oil and Gas Authority  
Commission 2015

Dr Andy Samuel  
Chief Executive  
Oil and Gas Authority

# 2019-2021 Net Zero Cultural Change



10-point plan



Energy White Paper



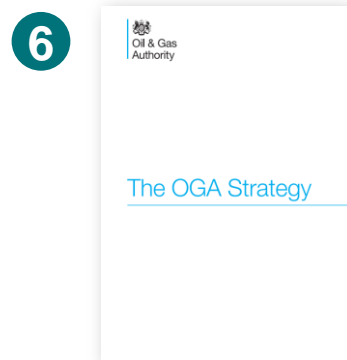
CCC 6<sup>th</sup> Carbon Budget



Industrial Decarbonisation



Just Transition Commission



OGA Strategy




North Sea Transition Deal & Licensing review




Climate-related financial disclosure

## New OGA / NSTA Strategy

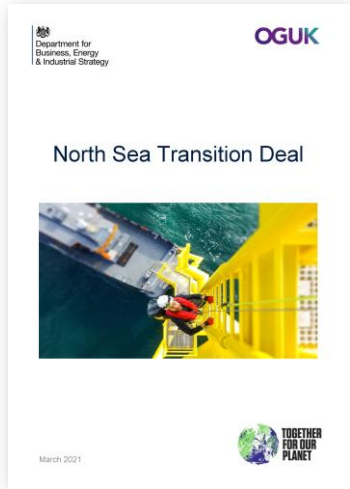
 New supporting obligations on CCS and collaboration

 New guidance and net zero Stewardship Expectation

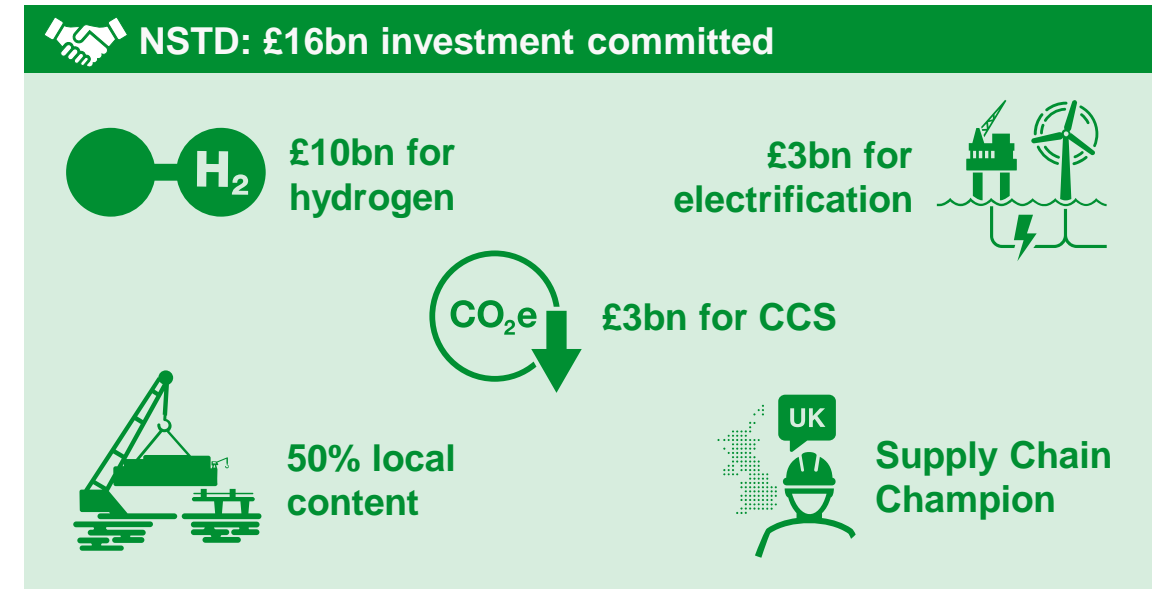
 Requirement to take account of net zero considerations

 New approach to carbon economics

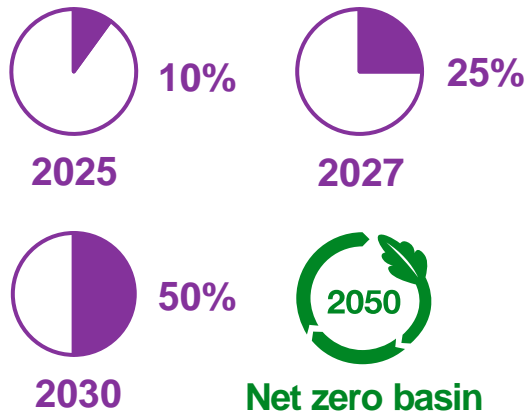
# North Sea Transition Deal



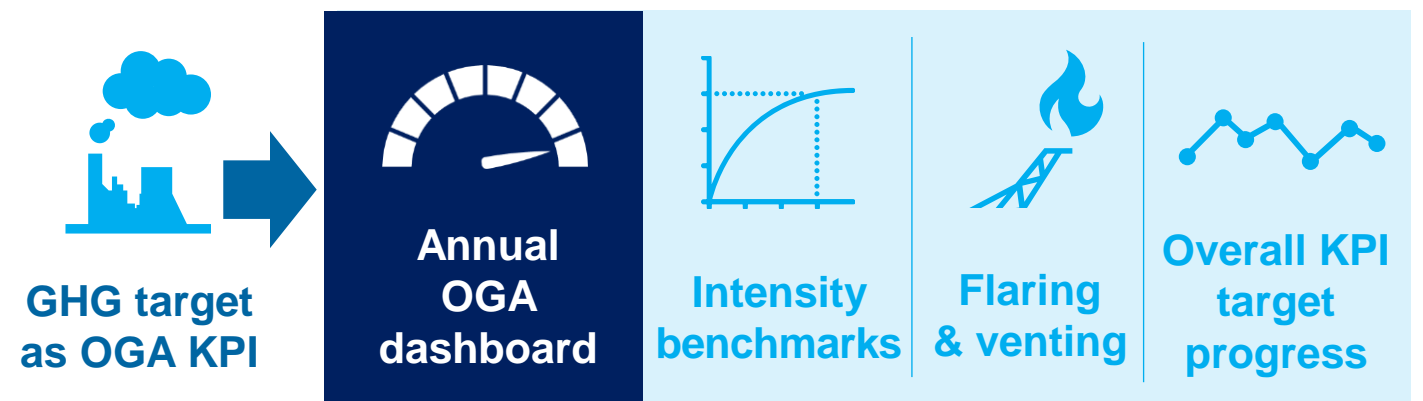
- **Govt & industry commitment to transition**
- **First of kind for G7 country**
- **Future licensing climate checkpoint**
- **Quid pro quo**



## Industry commitment to reducing upstream GHG emissions



## NSTA tracking and monitoring progress



# Examples: UKCS CO<sub>2</sub> Emissions

2020 to 2021 CO<sub>2</sub> Emission % Change by Installation



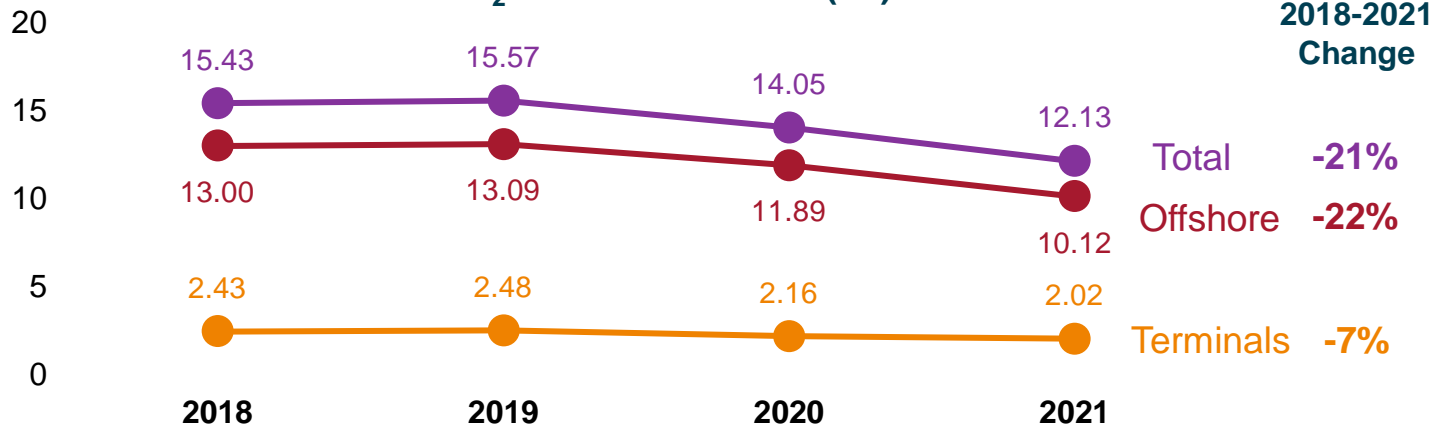
4/5 of all UK upstream O&G installations reduced their CO<sub>2</sub> emissions from 2020 to 2021, including terminals

## NSTA influence: 970k tonnes emissions avoided

- 1. Operator held to account**
  - Vapour recovery unit installed
  - Saving 22 tonnes flared gas per day
- 2. Compression Project**
  - NSTA economic modelling
  - Electric drive recommendation agreed
- 3. Excess flaring**
  - Stewardship identified issue
  - Operator rectifying

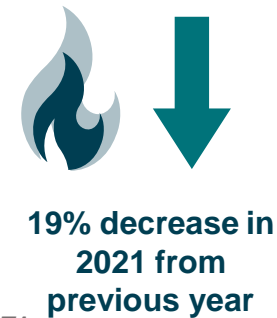
Source: UK ETS

UKCS Total CO<sub>2</sub> Emissions Trend (Mt)



Source: UK ETS

## Flaring volume reduction

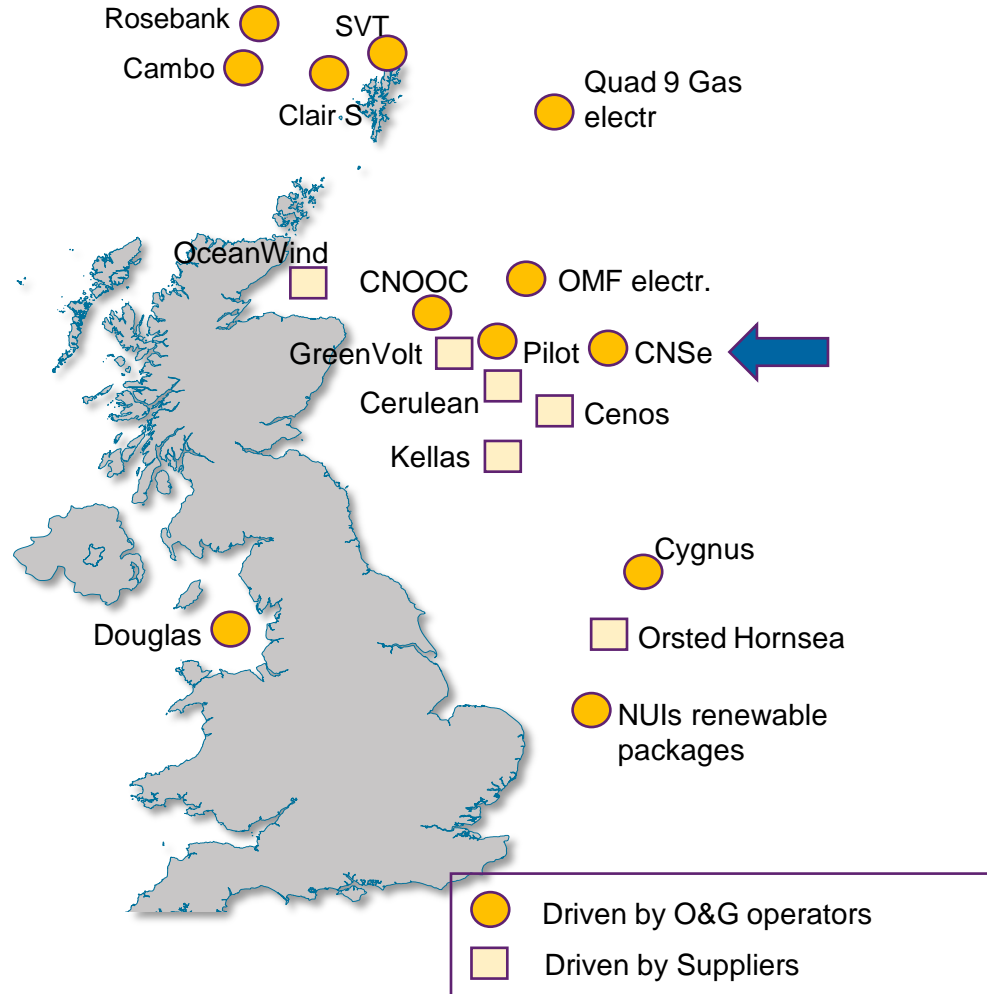




Source: NSTA



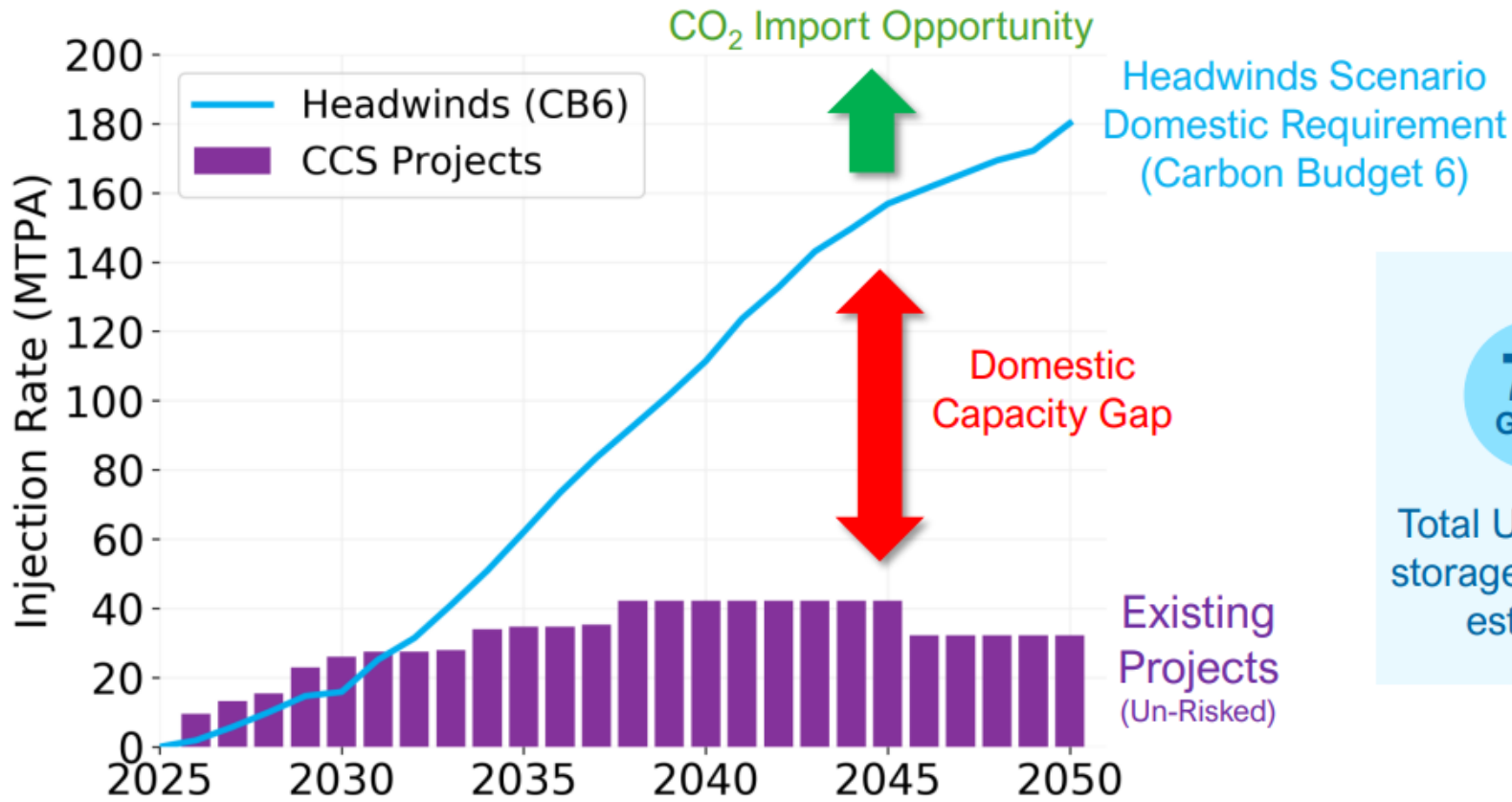
# Electrification is Crucial

## Industry potential projects



- Platform power generation represents **3-4% of total UK emissions (or ~11% of UK power sector)**
- A number of projects to reduce these emissions are considering **electrification from renewable sources**
- CNSe** is of strategic importance as it covers the **largest platforms**, having **greatest longevity**
- Electrification can also **accelerate**:
  -  UK floating wind growth
  -  Offshore green H2 production
- Electrification can help sharing cost** of transmission infrastructure with windpower, also supplying power for future **CCS schemes**
- UK economic and net zero prize is much larger** than just platform decarbonisation

# CCS – the time is now



 <p><b>78</b> GtCO<sub>2</sub></p>	 <p><b>75-175</b> MtCO<sub>2</sub></p>	
Total UKCS CO <sub>2</sub> storage resource estimate	CCC estimate requirement in 2050	Spatial planning to high-grade future sites





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# Thank you

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