

Oil & Gas Authority

Well Decommissioning – Expectations and Opportunities

Pauline Innes Head of Decommissioning



© OGA 2021

This presentation is for illustrative purposes only. The OGA makes no representations or warranties, express or implied, regarding the quality, completeness or accuracy of the information contained herein. All and any such responsibility and liability is expressly disclaimed. The OGA does not provide endorsements or investment recommendations. Oil and Gas Authority is 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

2021 Decommissioning Strategy Refresh

😻 Oil & Gas Authority



Published in 2016 at the start of the OGA Cost certainty and Decommissioning reduction delivery capability Decommissioning Strategy At the time the industry Decommissioning scope, 35% was unfamiliar with large guidance and stakeholder scale decommissioning engagement

Industry has come a long way since 2016 - Time for a refresh

What does the new strategy say?



Objective: Ensure that decommissioning is carried out cost effectively, in accordance with regulatory requirements, consistent with the OGA Strategy							
	MER UK KPI: 35% cost reduction'				Net Zero		
Strategic Priorities	Planning for Decommissioning	Commercial Transformation			Support Energy Transition		
	Late-life planning focussed on cost efficient delivery	Collaborative culture	Data transparency	Decommissioning at scale	Minimise greenhouse gas emissions	Re-purposing and reuse of infrastructure	
	Technology, Processes and Guidance Development and deployment of technology cross regulator alignment; Clear guidance and expectations						
Strategic Themes	 Effective stewardship through late life into decommissioning Right assets right hands Promote learning, sharing of knowledge and continuous improvement 	 A client contractor relationship built on collaborative principles A supply chain empowered to deliver attractive value propositions Procurement and contracting models Improve visibility on cost data (KPIs, benchmarking) Improved visibility of the decommissioning pipeline Improved data on assets Asset information to support decommissioning Decommissioning at scale: Scope aggregation Area based approaches Campaigns 			 Improve transparency on the greenhouse gas impact of decommissioning Develop decommissioning emissions KPI Develop emission minimisation options Effective late-life stewardship to identify late-life pathway (reuse/ re-purpose or decommissioning) Identify opportunities for reuse and re-purposing of redundant offshore infrastructure 		

*From 2017 base

Progress and Next Steps



Celebrating progress











Areas for Improvement - Plan & Prepare



Right assets, right hands – do you have the **skills** and **capability** to **deliver decommissioning**?

OGA Priority Actions



Commercial Models for decommissioning delivery



Structured

Engagement



Lesson learning and knowledge sharing

Good foundation but more needs to be done

Plan & Prepare- Well Decommissioning



Challenge





Expectations

OGA suspension consent period.

Cost Efficiencies



Decommission platform wells **prior or directly after** COP



Allows platforms to quickly become **hydrocarbon free.** Reducing Post COP

running costs which accounted for **9%** of forecast spend in 2020

(£3.3bn)



Plan early– (reactivate platform rig or HWU?)



Campaigning significantly reduces cost



Investigate use of **new technology**

Commercial Transformation



 Objective: Ensure that decommissioning is carried out cost effectively, in accordance with regulatory requirements, consistent with the OGA Strategy

 MER UK
 Net Zero

 Strategic Planning for Decommissioning
 Commercial Transformation
 Support Energy Transition

Priorities	Decommissioning	Commercial Transformation			Support Energy Transition		
	Late-life planning focussed on cost efficient delivery	Collaborative culture	Data transparency	Decommissioning at scale	Minimise greenhouse gas emissions	Re-purposing and reuse of infrastructure	
	Technology, Processes and Guidance Development and deployment of technology cross regulator alignment; Clear guidance and expectations						
Strategic Themes	 Effective stewardship through late life into decommissioning Right assets right hands Promote learning, sharing of knowledge and continuous improvement 	 A client contractor relationship built on collaborative principles A supply chain empowered to deliver attractive value propositions Procurement and contracting models Improve visibility on cost data (KPIs, benchmarking) Improved visibility of the decommissioning pipeline Improved data on assets Asset information to support decommissioning Decommissioning at scale: Scope aggregation Area based approaches Campaigns 			 Improve transparency on the greenhouse gas impact of decommissioning Develop decommission emissions KPI Develop emission minimisation options Effective late-life stewardship to identify late-life pathway (reuse/ re-purpose or decommissioning) Identify opportunities for reuse and re-purposing of redundant offshore infrastructure 		

Collaborative Culture





Decommissioning offers a win-win opportunity. Cost efficiencies will come from market stability and certainty ... so why not *do things differently?*

Case Study: Campaigning



NST Wells Task Force

Benefits:

- Delivering high-cost activities for less
- Maintaining and attracting high-skilled jobs
- Developing exportable expertise
- Reducing emissions and improving safety performance

Developing a Collaborative Culture



Consider different ways of procurement and contracting



Build client contractor relationships on collaborative principles



Empower the supply chain to deliver attractive value propositions



Collaboration with other operators – scope aggregation

Data Transparency

🔊 Oil & Gas Authority



Datasets



Data transparency a key focus – more to come in 2021

Decommissioning at scale – Campaigning



Q4 2020 lookback



November 2020 offshore Decommissioning conference - OGA announced a **step change** in well decommissioning is required.

OGA announced we would be engaging with operators to **promote and encourage campaigning**

Q1 2021 Progress



Campaign Types









Single rig contract & share supervisor



35% est Campaign Efficiency

Reuse for CCUS – Considerations



Reuse of reservoirs only

Decommission wells with reuse of reservoir in mind



Design Considerations



Utilise barriers designed for a CO2 environment

Primary barrier validated to pre development pressure



Unlikely an existing well is in the optimal injection location.

Direct reuse of Wells

A hydrocarbon completion will be unsuitable for CO₂





Hence an existing well may be sidetracked and the completion replaced

Scale of the Opportunity





UKCS skills in well decommissioning are immature; with 85% of development wells still to be fully

Target – 35% - 65% reduction

2017 baseline: s	Target: 35% reduction to £39bh by 2022				
Cost Category	2017 Baseline		Reduction Target		Progress to 2020
Well P&A	46%	£27bn	35-65%	£9-18bn	17%
Removals	26%	£15bn	15-30%	£2-5bn	21%
Subsea Infrastructure	10%	£6bn	30-50%	£2-3bn	29%
Post CoP Running Costs	7%	£4bn	20-40%	£1-2bn	12%

Expectation



Oil & Gas Guidance for applications for suspension of inactive wells

Opportunity



Delivery of high cost well decommissioning for less







UK export opportunities over 49,000* offshore wells globally



Oil & Gas Authority

