



Oil & Gas  
Authority

# OGA Overview 2016



# Contents

Introduction from the Chief Executive	3
Progress to date	4
OGA background	5
About the OGA	6
OGA way forward	7
OGA Expectations of industry	8
MER UK strategy	9
Striking the right balance	10
Experienced leadership	11
Robust governance	12
Oil & Gas day	13
Oil & Gas MER UK forum	14
MER UK boards	15
MER UK Boards' immediate priorities	16
UK Government Support	17
Fiscally competitive	18
<b>Revitalise exploration</b>	19
<b>Improve asset stewardship</b>	23
<b>Drive regional development and protect critical infrastructure</b>	25
<b>Improve decommissioning efficiency</b>	29
<b>Leverage technology and data</b>	31
<b>Create the right conditions</b>	32
Who does what in UK Government	35

# Introduction from the Chief Executive

---

Our oil and gas industry provides a great number of jobs, delivers secure energy for our homes and businesses, and generates significant value for our economy every year, at home and through exports overseas.

The decline in oil prices has magnified the issues that companies operating on the UK Continental Shelf (UKCS) have been grappling with for a number of years, highlighting the need for operational and behavioural transformation.

Rapid progress has been made to establish the Oil and Gas Authority (OGA) as an independent authority and to build its capacity and capability to help maximise economic recovery of the UK's oil and gas resources (MER UK) – our principal objective.

We are focused on delivering a high-quality service and value-for-money to industry. We seek to be a progressive and highly effective authority, working with government and industry to attract investment, retain valuable skills and address the immediate impact of the low price, while delivering further priorities that help bridge to the future.

The aim of this document is to provide a high level overview of the OGA. Further details can be found in other documents, in particular our Corporate Plan and on our website, references to which can be found later in the Overview.



**Dr Andy Samuel**

Chief Executive



# Progress to date

## Highlights include



Successfully and safely completed the 2015 £20 million UK Government funded seismic programme in the Rockall and Mid-North Sea High and released data in Q1 2016 – 12 months from project announcement to data release

# 7

Led work, across a number of Government Departments and other bodies to rationalise and integrate key fora. Seven MER UK boards now report into the MER UK Forum – integrating PILOT and the Oil and Gas Industry Council

Successfully delivered and communicated the 14<sup>th</sup> onshore and 28<sup>th</sup> offshore licensing rounds



Worked with Operational Gas Group to facilitate the sharing of fuel gas amongst operators in the Northern North Sea which reduced costs and improved efficiency



Sanctioned several projects including the Culzean ultra high-temperature high-pressure Field Development Plan



HM Treasury introduced £1.3 billion package of measures in 2015 and £1 billion package in 2016 following tripartite work



The Prime Minister announced a further package of measures to support the sector in Q1 2016 – including £180 million for technology and £20 million for a further seismic campaign. Funding for the creation of a 3D visualisation centre, post-doctoral appointments and an exploration licence competition was also announced



OGA established and senior leadership and governance structures put in place

OGA established low oil price contingency team



# c.30

More than 30 successful facilitation/intervention cases by the OGA – new discoveries, extensions of fields, unblocking of commercial issues, cost savings and improved plant operations

# OGA background

---

## The need for the OGA

---

Urgent need for enhanced stewardship across UKCS

---

Review of sector in 2014 recommended independent authority

---

Over-zealous commercial behaviours a problem

---

Lack of industry-wide collaboration leading to inefficiencies

---

## Creating the OGA

---

New independent authority – created April 2015 – building on existing strengths

---

Effective stewardship of resources

---

New powers, better resourced and funded

---

Catalyst for change and facilitator of action

---

Encouraging collaboration

---

Focused on delivering a high-quality service and value-for-money to industry

---

Provide expertise and evidence to HM Treasury

---

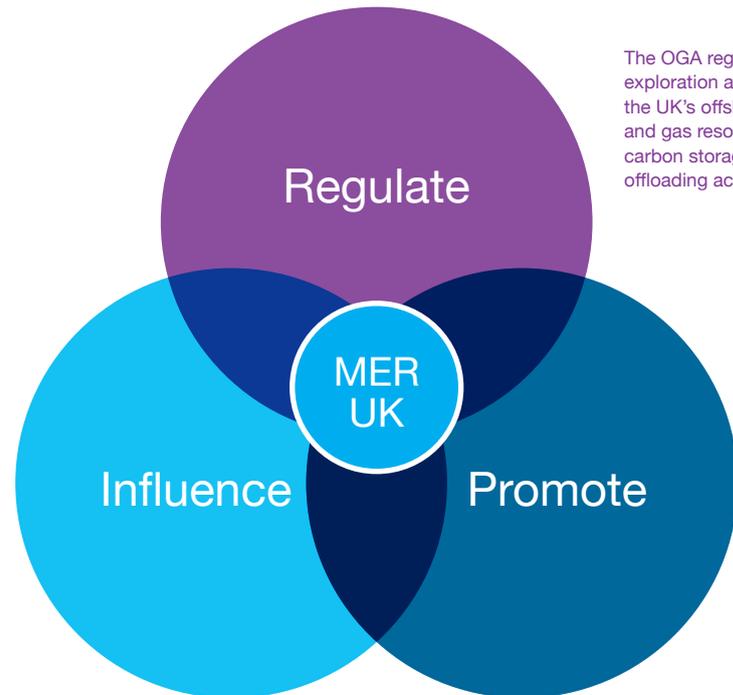
OGA is driving actions to maximise economic recovery from the UKCS

# About the OGA

---

## Role of the OGA

---



The OGA regulates the exploration and development of the UK's offshore and onshore oil and gas resources and the UK's carbon storage, gas storage and offloading activities

The OGA has a critical role to influence and encourage a culture of greater collaboration on the UKCS, improve commercial behaviours, and the creation of a more efficient industry

The OGA has an important role to promote investment in the UKCS, value creation in the UK and through exports, and the overall development and prosperity of the industry including wider supply chain

# OGA way forward

Why	<b>Ambition</b>	To be a world-leading authority setting the framework for a sustainable and competitive UK oil and gas industry						
	<b>Purpose</b>	To maximise the economic recovery of oil and gas						
What	<b>Role</b>	<b>Regulate</b> <ul style="list-style-type: none"> <li>Licence and steward offshore oil and gas E&amp;P</li> <li>Licence and steward onshore oil and gas E&amp;P</li> <li>Licence carbon storage and gas offtaking</li> </ul>	<b>Influence</b> <ul style="list-style-type: none"> <li>Industry operating costs and efficiency</li> <li>Greater industry collaboration</li> <li>Industry culture and behaviours</li> </ul>	<b>Promote</b> <ul style="list-style-type: none"> <li>Investment in the UKCS</li> <li>Value creation in the UK and through exports</li> <li>Industry, supply chain and technology development</li> </ul>				
	<b>Priorities</b>	<b>Revitalise exploration</b> Implementing a licensing regime that encourages high levels of exploration, using data, analysis and insights to proactively influence and help incentivise exploration on the UKCS and improve success rates	<b>Improve asset stewardship</b> Stewarding the development of UK oil and gas resources and working with industry to optimise efficiency while maintaining high standards of safety and environmental management	<b>Drive regional development and protect critical infrastructure</b> Seeing the big picture and maximising the sum of the parts, making sure that barriers to regional development are removed and that critical infrastructure and production hubs are protected	<b>Improve decommissioning efficiency</b> Achieving the maximum extension of field life and ensuring that decommissioning is executed in a safe, environmentally sound and cost effective manner and that the UK gains a competitive industrial capability	<b>Leverage technology and data</b> Ensuring that existing technologies are deployed to their full effect, relevant new technologies are developed and that the collection, analysis and sharing of data is used to maximise economic recovery	<b>Create the right conditions</b> Engaging with industry, government and others to create an operating environment and supply chain that supports MER UK, sustaining high levels of skilled employment, economic value and energy security for the UK	<b>Develop people, processes and systems</b> Creating a diverse, high-performing team and a great place to work, where employees are supported to develop their capability, in an organisation with simple processes and systems
How	<b>Values</b>	Accountable	Fair	Robust	Considerate			
	<b>Behaviours</b>	One team – proactive, efficient, delivery-focused, respected and trusted – a catalyst for change						

# OGA expectations of industry

---

## Creating the right behaviours

---

Over-zealous commercial behaviours still an issue

Create the culture necessary to deliver MER UK

Cross-industry engagement

Identifying behavioural barriers

Industry Behaviours Charter

## Expectations of industry

---

Protect critical infrastructure

Support Oil and Gas Day and associated MER UK Forum and Boards

Do everything possible to retain people and skills – support retraining and facilitate redeployment as required

Continue to deliver improvements in asset stewardship

Significantly modify commercial behaviours to align with MER UK

Reinvigorate and intensify efforts to improve efficiency

# MER UK Strategy

The Strategy sets out the high-level principles of MER UK; clarifies the obligations and expectations on all parties; and defines and guides the work OGA has been established to do. The Strategy, which is legally binding, provides safeguards for industry and investment. It also enables the OGA to produce plans which set out its view of how any of the obligations in the Strategy may be met.

## MER UK central obligation

Take the steps necessary to secure that the maximum value of economically recoverable petroleum is recovered from the strata beneath relevant UK waters

## Supporting obligations & required actions

The Strategy also sets out:

Supporting obligations in key fields such as exploration, development, asset stewardship, technology, decommissioning, and OGA plans

Required behaviours on timing, collaboration, cost reduction, and the actions where a party decides not to pursue MER UK

Key Wood Review deliverable – came into force 18 March 2016

# Striking the right balance

## Sanctions

Licence revocation

Fines up to £1m

Improvement notices

**The Energy Bill will, subject to the will of Parliament, give OGA a range of new powers including:-**

Ability to attend certain meetings

Introduce a range of sanctions including enforcement notices and fines of up to £1 million

Dispute resolution

Ability to request information and samples

## Rewards

Greater value via cooperation

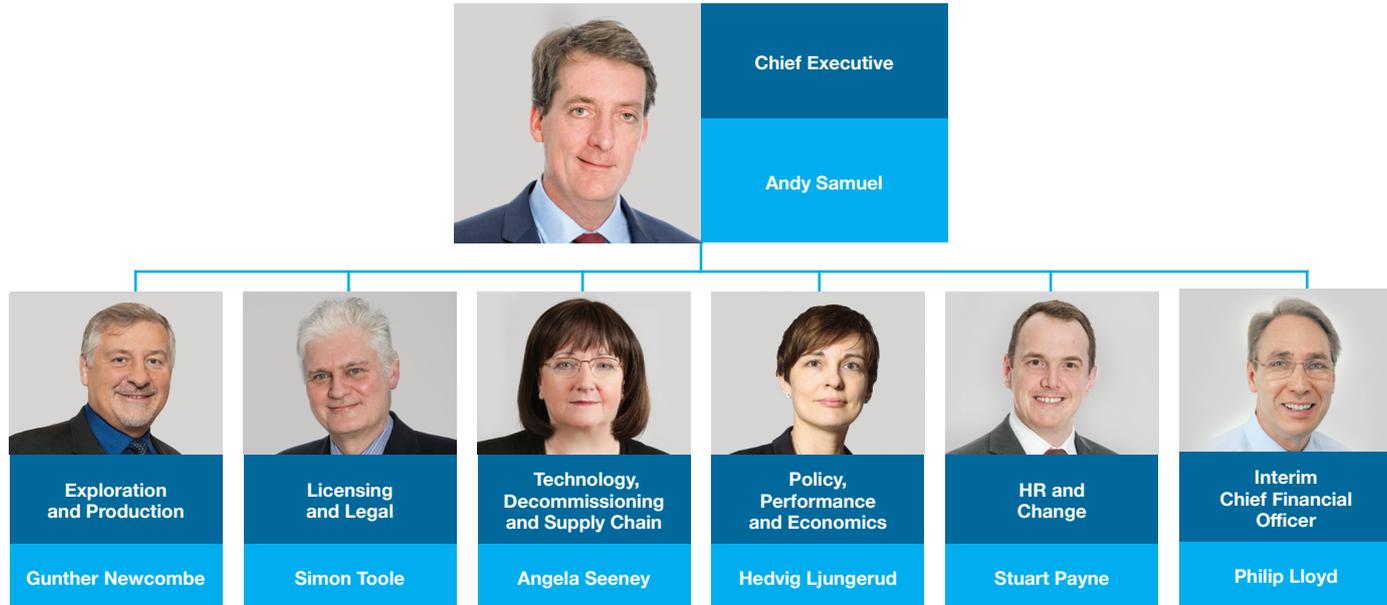
Transparency and better data access

Timely, effective decision making

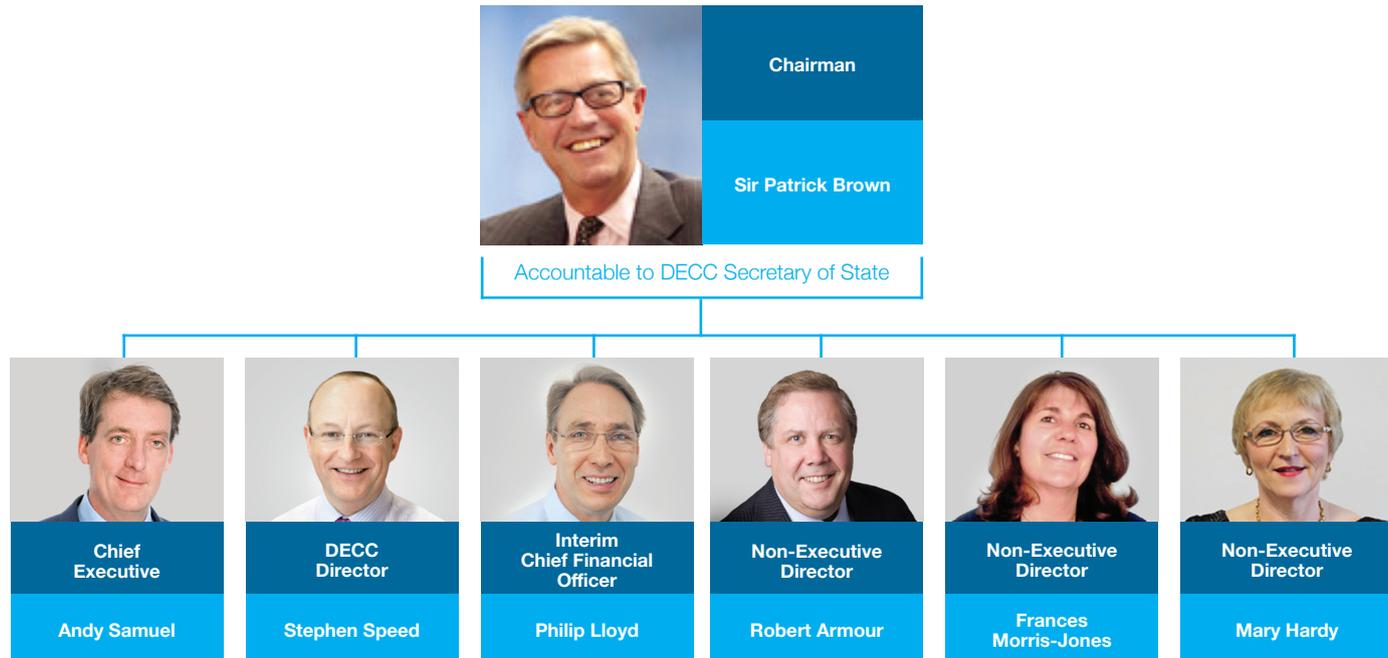
MER UK benefits all

Combining new regulatory powers with a more proactive approach

# Experienced leadership



# Robust governance



Broad experience

# Oil & Gas day

## Oil & Gas Tripartite Dinner

OGA lead

Purpose

Direct, open and transparent dialogue between Ministers, industry and the OGA

Reflect on current operating environment – the risks and opportunities

Outcomes

Build and maintain strong tripartite relationships

High levels of awareness and understanding between all parties

## Oil & Gas Fiscal Forum

HM Treasury lead

Collective action on fiscal priorities in Driving Investment Plan: Exploration, infrastructure access and barriers to new entrants for late-life assets

Evidence-based approach embraced by HMT, OGA and industry

Strong engagement on proposed fiscal measures

## Oil & Gas MER UK Forum

OGA lead

Drive tripartite action in support of MER UK and maximise UK value from the oil and gas industry as a whole

Alignment, accountability and action on key priorities

Tangible results

Continued participation from government Ministers throughout

# Oil & Gas MER UK Forum

Formerly PILOT

<b>Purpose</b>	Drive tripartite action in support of MER UK and maximise UK value from the oil and gas industry as a whole		
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. Promote dialogue between government, industry and OGA</li> <li>2. Provide strategic direction, oversight and support</li> <li>3. Drive alignment, accountability, action and delivery on key priorities</li> </ol>		
<b>Core work areas</b>	Exploration <span style="float: right;">1</span>	Asset Stewardship <span style="float: right;">2</span>	Regional development and infrastructure <span style="float: right;">3</span>
			Cost and efficiency <span style="float: right;">4</span>
		Technology <span style="float: right;">5</span>	Decommissioning <span style="float: right;">6</span>
			Supply chain, exports and skills <span style="float: right;">7</span>
<b>Strategy and Plans</b>	<b>Principles</b> <ol style="list-style-type: none"> <li>1. Each core work area has executive-level leadership from industry and OGA, via a board</li> <li>2. Each core work area has a five year plan via a board</li> <li>3. Each core work area has a maximum of three key priorities each year</li> <li>4. The Oil &amp; Gas MER UK Forum will therefore drive no more than 21 key priorities each year</li> <li>5. Each key priority completed before moving to next</li> </ol>		
<b>Reporting</b>	The Oil & Gas MER UK Forum will produce an annual progress report		
<b>Frequency</b>	3 x 2-hour meetings pa	<b>Secretariat</b>	OGA external affairs team
<b>Integration of PILOT and Oil and Gas Industry Council</b>			

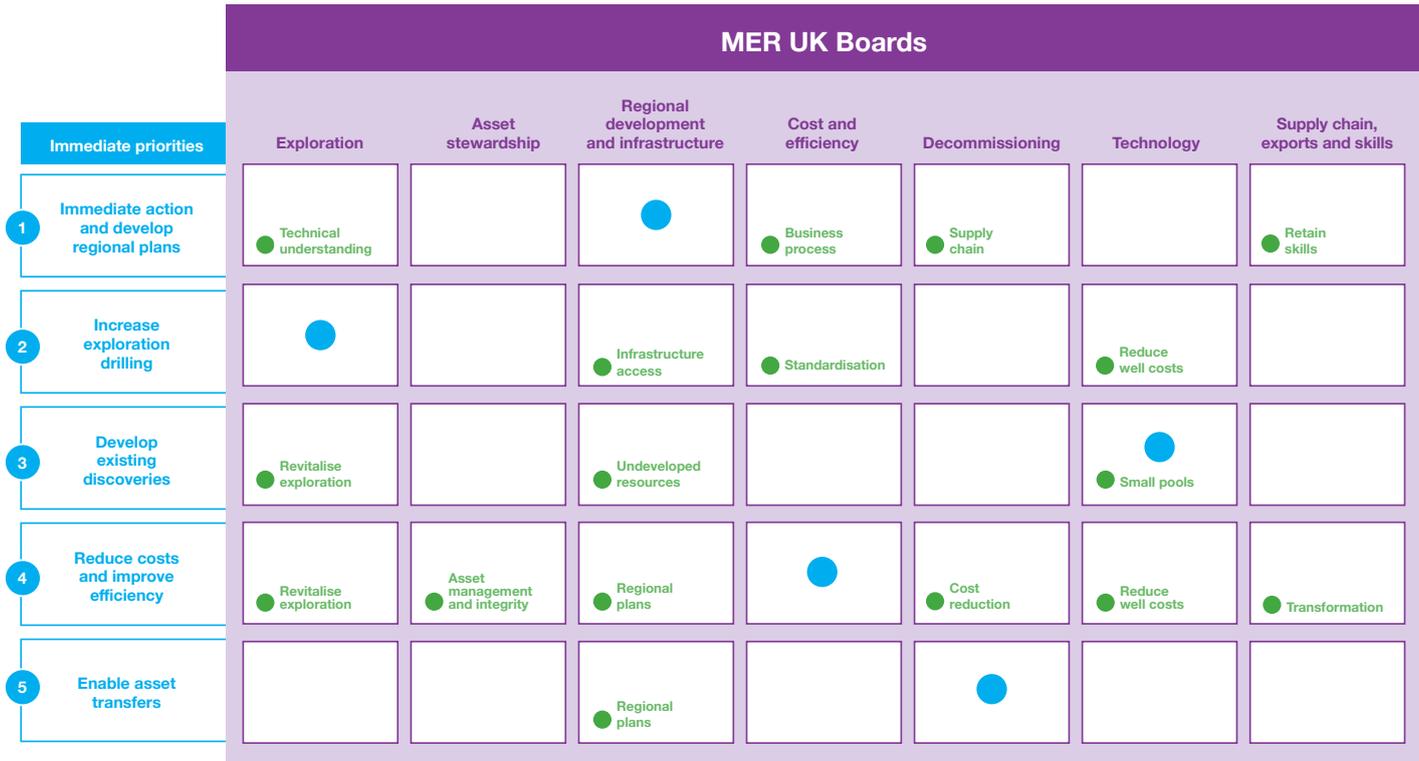
Previously Oil and Gas Industry Council

# MER UK Boards

<b>Purpose</b>	Deliver tangible benefits in support of MER UK and maximise UK value from the oil and gas industry as a whole								
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. Develop a clear strategy, priorities and plans</li> <li>2. Create leadership alignment and leverage tripartite action – forum for consultation</li> <li>3. Deliver tangible and quantifiable results</li> </ol>								
<b>MER UK Boards</b>	Exploration <b>1</b>		Asset stewardship <b>2</b>		Regional development and infrastructure <b>3</b>		Cost and efficiency <b>4</b>		
	Phil Kirk Chrysaor		Ray Riddoch Nexen		Paul Goodfellow Shell		John Pearson AMEC FW		
	Gunther Newcombe		Gunther Newcombe		Gunther Newcombe		Stephen Marcos-Jones		
	Previously Exploration Task Force		Building on Production Efficiency Task Force		Newly created to build on rejuvenated groups		Oil & Gas UK Efficiency Task Force		
	Technology <b>5</b>			Decommissioning <b>6</b>		Supply chain, exports and skills <b>7</b>			
	Paul White GE			Colette Cohen Centrica		Neil Sims Expro Group			
	Angela Seeney			Angela Seeney		Angela Seeney			
Technology Leadership Board			Previously Decom Task Force		Previously Oil and Gas Industry Council				
<b>Frequency</b>	Quarterly			<b>Support</b>		OGA/Oil & Gas UK			

Industry Lead
  Support Lead

# MER UK Boards' immediate priorities



MER UK Board priorities key: ● Leading ● Supporting

# Fiscal Measures

£1.3 billion package of measures introduced in 2015 and £1 billion in 2016



Supplementary  
Charge reduced  
from 30% to  
10%



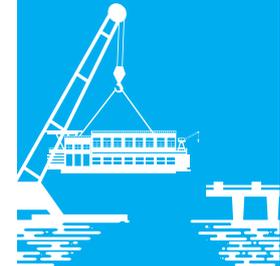
Petroleum  
revenue tax  
reduced from  
50% to 0%



Confirmation  
of new basin-  
wide investment  
allowance

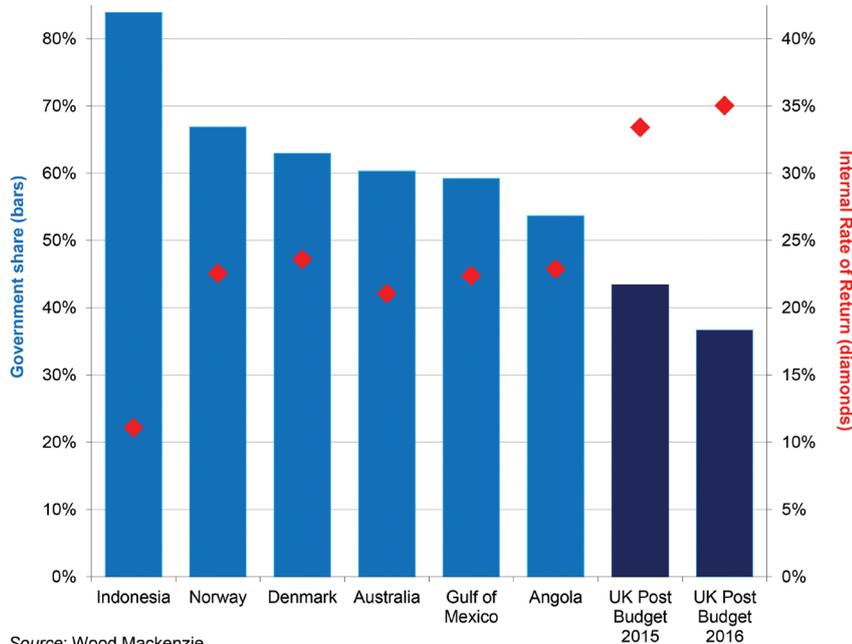


2 x £20 million  
for new  
geophysical  
surveys



Clarifying tax  
treatment of  
decommissioning  
costs

# Fiscally Competitive



Source: Wood Mackenzie

## Adding certainty

Strong commitment from Government

Positive fiscal reform

Politically stable

OGA provide expertise and evidence to HM Treasury

The blue bars in the chart show rates of taxation (using a 0% discount rate) for a 20 million barrel of oil equivalent high cost (\$21.6/bbl capex, \$12.3/bbl opex) model oil field before and after the Budget changes with light blue bars for rates of tax for the same project in other countries

Projects are evaluated at a long-term Brent oil price assumption of \$70/bbl (real, 2016 terms). The red diamonds show project post-tax internal rates of return (IRR)

UK was already fiscally competitive – made more so by Budget measures

# Revitalise exploration

43bn boe recovered from UKCS to date – up to 20bn boe remaining



> 300 discoveries with 4bn boe potential



Potential of up to 9bn boe yet to find in mature areas



Target of 50 E+A wells per year by 2021



UK Government funded seismic



40,000km new and legacy data in 2015 – Rockall Trough and Mid-North Sea High – Data freely available\* from Q1 2016



OGA competition to define potential of frontier areas



29<sup>th</sup> 'Frontier' Licensing Round in 2016\*\*

29<sup>th</sup>

Further £20million seismic funding from UK Government in 2016 and funding for post-doctorates and for 3D visualisation suite



\*From [www.UKOilandGasData.com](http://www.UKOilandGasData.com)

\*\*Subject to Strategic Environmental Assessment

# Significant opportunities

- 29<sup>th</sup> Licensing Round Areas
- ▨ 2015 OGA 2D Seismic Lines
- ▨ 2016 OGA 2D Seismic Lines
- UKCS Designated Area



29th Licensing Round and 2016 seismic study areas are proposed and subject to further approvals including Strategic Environmental Assessment

## Well reviews and analysis

---

Rigorous analysis of failed wells and sharing of lessons learnt (98 wells over a 10 year period)

---

Undertaking subsurface technical assurance reviews to improve technical standards

---

Introduce OGA risk and resource process

---

21<sup>st</sup> Century Exploration Road Map

---

## Improve data quality

---

OGA will coordinate data quality and sharing

---

In-depth evaluation of regional prospectivity – promote regional studies

---

Provide high-quality digital geological maps

---

## Future licensing rounds

---

New, flexible, licensing strategy – new Innovate Licence created

---

29<sup>th</sup> Round 2016 – under-explored frontier blocks

---

30<sup>th</sup> Round 2017 – mature parts of the basin

---

Time to evaluate existing work commitments and relinquishments

---

We work with operators to ‘high-grade’ prospect inventories

# Onshore exploration and development

OGA currently performs a number of onshore regulatory functions and will continue to work with industry and other regulators to ensure regulatory controls and guidance are in place.

## OGA

Onshore licensing

Drilling consents

Work with British Geological Survey (BGS) to publish assessments of shale potential

Collect and publish shale-related geotechnical data

Approval of Hydraulic Fracture Plans

Regulation of induced seismicity

## Others

Shale Policy – Government (DECC)

Planning permission – Mineral Planning Authority

Environmental permits – Environment Agency (England), Natural Resources Wales (Wales), Scottish Environment Protection Agency (Scotland)

Scrutiny of well design – Health & Safety Executive

Onshore regulatory functions are being devolved through the Scotland Act 2015 and the Government intends to devolve regulatory functions to Wales and introduce legislation in 2016.

Issue of Hydraulic Fracturing Consents – Government (DECC)

# Production efficiency



In 2015 OGA brought together all East of Shetland operators to discuss planned shutdowns in 2016 – the first time these operators have got together to coordinate planned shutdowns in this way



Production efficiency (PE) on the UKCS is a significant factor in total production levels – PE increased by circa 10% between 2012 (c.60%) and 2015

# 10%

Production increased in 2015 for the first time in 15 years – by 10 per cent

## Enhanced stewardship

---

Enhanced asset stewardship framework agreed

---

Senior leadership commitment by OGA and industry

---

Stewardship plan expectations in development

---

OGA enhanced oil recovery strategy to facilitate up to 250 mmbob of additional reserves

---

## Data-driven approach

---

Tiered stewardship reviews including operator scorecards

---

Benchmarking of key parameters

---

Rationalisation of OGA industry surveys

---

Support operators to understand key cost drivers to develop industry wide solutions to safely reduce OPEX by 30%

---

## Managing late-life assets

---

MER UK approach to upstream and midstream

---

Future use of infrastructure is considered fully prior to Cessation of Production

---

Right assets; right hands

---

Enhanced Stewardship covers full E&P lifecycle



# West of Shetland task force

---

OGA leading West of Shetland task force

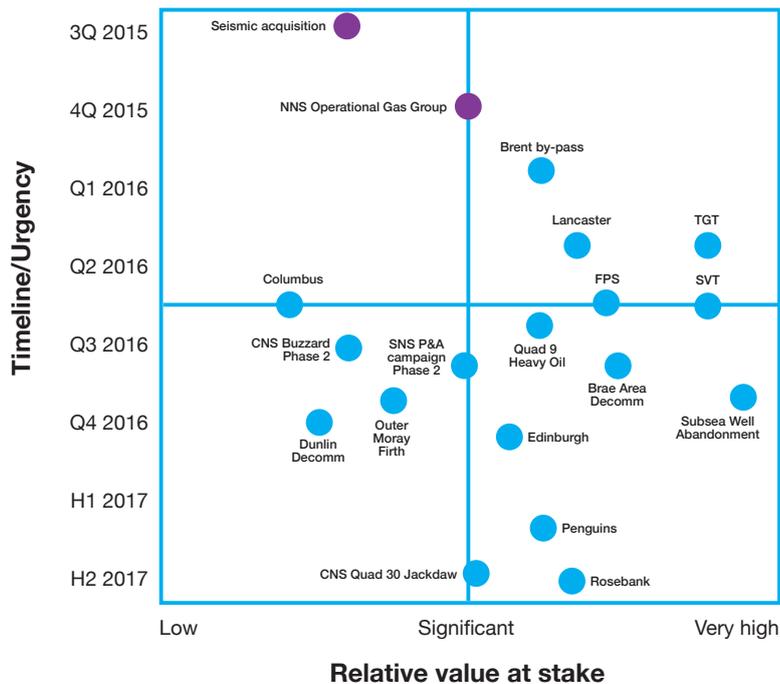
---

Brings together those operators with an interest in the area to collaboratively review options to get gas to market

---

# Focus on priorities

## OGA Opportunity Matrix



### Opportunity Area

- Complete
- In Progress

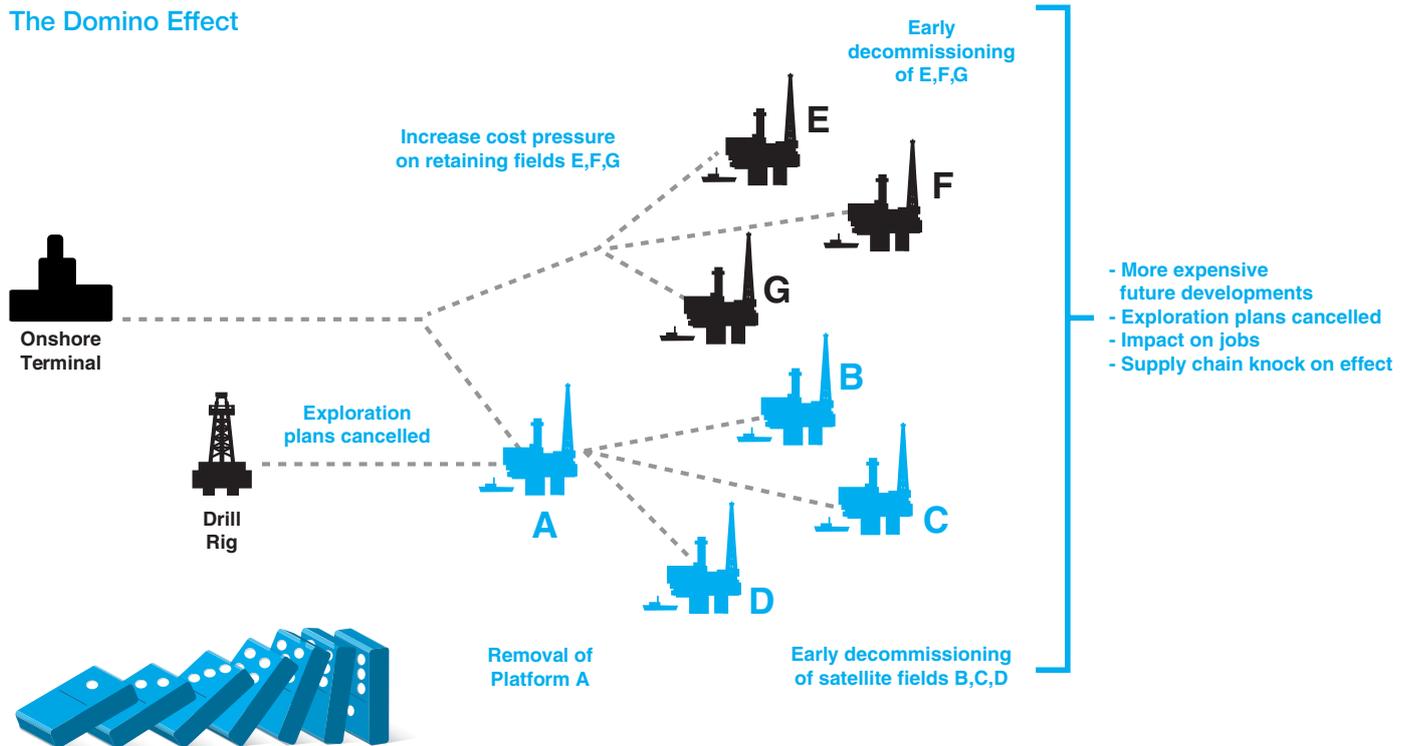
### Key

- NNS – Northern North Sea
- CNS – Central North Sea
- SNS – Southern North Sea
- P&A – Plugging and abandonment
- FPS – Forties Pipeline System
- TGT – Theddlethorpe Gas Terminal
- SVT – Sullom Voe Terminal

Tackling immediate risks and seizing opportunities

# Protect critical infrastructure

## The Domino Effect



## Immediate action

Facilitation of Key MER UK misalignments

Extend life of key hubs including:-

- Sullom Voe Terminal
- Theddlethorpe Gas Terminal

Undertaking a regional assessment of West of Shetland gas export options

Greater Fulmar Area Task Force creating area plan

## Economic assessments

Evaluate investment drivers

Anticipate risks and opportunities

Early stage involvement

## Regional plans

Develop hub strategies

Optimise infrastructure

Develop a business plan and strategy for key regions

Integrated MER UK approach

Urgent action underway to avoid premature decommissioning



# Improve decommissioning efficiency

---

Industry estimate of £47 billion to 2050

---

Target cost reduction of at least 35%

---

10% UKCS infrastructure decommissioned to date

---

## Integrated Approach

### Decommissioning Strategy:

- Cost efficiency and reduction
- Decommissioning delivery capability
- Policy and stakeholder management

**Decommissioning Board:** Leveraging membership, expertise and initiatives crucial for delivery of the Decommissioning Strategy

### Industry transformation:

Required to support MER UK obligations

**Technology:** Help identify cost reducing opportunities for technology adoption, adaption and development

**Supply chain capability:** Build capable and competitive advantage to the UK on the global decommissioning stage

## Who does what

OGA

### Area Teams

- Cessation of production
- Regional approach
- MER UK compliant

### Decom Team

- Cost efficiency
- Supply chain capability
- Policy and stakeholders

DECC

### DECC Team

- Funding and security
- Decom Programme approval
- Regulatory compliance
- Environmental risk and mitigation

# Leverage technology and data

## Technology priorities



### Small Pool Development

200 marginal discoveries – technology to enable development of > £1.5bn boe from pools < 15m boe could generate £40bn new investment



### Asset Integrity

15-20% increase in production uptime



### Well Construction

50% cost reduction targeted



### Decommissioning

Technology has key role to help achieve decommissioning cost efficiencies

## OGA approach

Develop a UKCS Technology Plan

Ensure existing technologies deployed to full effect

Significant total value add potential

Significant scope to improve UKCS cost efficiency and competitiveness

Co-Chair Technology Leadership Board – work closely with industry, government and stakeholders

Support the Oil and Gas Technology Centre and use of £180 million government funding

Work closely with government, industry and stakeholders to develop a data management strategy and plan

UKCS becomes centre of excellence for innovation

# Support the supply chain

## Export growth

World-class supply chain

£30-40 billion annual turnover,  
c.40% through exports

c.300,000 direct  
supply chain jobs

Work with UKTI, BIS,  
Scottish Enterprise and  
Oil & Gas UK to promote  
the supply chain

## Increasing efficiency

Service companies vital  
role to play in delivering  
cost reduction

Deliver efficiency solutions

Increase competitiveness

Transform the relationship  
between operators and  
service companies

## OGA approach

Promote alliances  
and campaigns

Help improve  
project execution

Encourage standardisation

Work with operators to  
ensure contracting strategies  
are robust and fair

Supporting the Scottish and  
New Anglia Jobs Task Forces

Promote a strong and competitive UK supply chain

## Create a competitive cost base

---

**Unit operating costs fell from \$29.30/bbl (£17.80) to \$20.95/bbl (£13.70) in 2015\* – target of \$15/bbl in 2016 – which would represent a total fall of 49% within two years**

(\*source OGA/Oil & Gas UK Activity Survey 2016)

## Reducing operating costs

---

Must compete in lower oil price world

---

Urgent focus on immediate priorities alongside longer-term plans essential

---

Structural transformation required

---

Operational and cultural change essential

---

## Applying best practice

---

Need to ensure performance is improved through effective transfer of lessons learnt

---

Learning from other sectors

---

Applying best practice in oil and gas

---

MER UK awards recognise positive behaviours

---

## Oil & Gas UK Efficiency Task Force

---

Business process improvement

---

Standardisation – reduce complexity and costs

---

Cooperation, culture and behaviours

---

Industry Behaviours Charter launched December 2015

---

Over 50 success stories shared through the Rapid Efficiency Exchange – and online portal

---

Inventory rationalisation trial launched – five operators sharing 200,000 inventory items to reduce individual stock holdings and improve access to vital equipment

---

Good progress being made – more underway – more still to be done

# Who does what in UK Government

Exploration and production including:	
Onshore, offshore and Carbon Storage Licensing	OGA
Field development plan consents	OGA
Cessation of production approvals	OGA
Pipeline works authorisation	OGA
Infrastructure	OGA
Commercial matters and changes of control	OGA
Flaring and venting consents	OGA
Metering and allocation	OGA
Production outages	OGA
Decom efficiency, costs, technology	OGA
Decom programme approval, execution and monitoring	DECC - OGED
Environmental management and inspection	DECC - OGED
Health & Safety management	HSE

Oil and gas policy including:	
Overall oil and gas policy	DECC
Legislation including the Energy Bill	DECC
Oil & gas parliamentary processes	DECC - OGA sponsor team
Decommissioning	DECC - OGED, OGA, HMT
Fiscal and taxation	HMT OGA provide expertise and evidence to HM Treasury
Supply chain and business impact	BIS & OGA
Environment	DECC - OGED
International relations	DECC, OGA, FCO

## Key

**OGA:** Oil and Gas Authority  
**OGED:** Offshore Environment & Decommissioning Unit  
**HMT:** Her Majesty's Treasury  
**FCO:** Foreign and Commonwealth Office  
**BIS:** Department for Business, Innovation & Skills

## Contact us at:

---

[oga.correspondence@oga.gsi.gov.uk](mailto:oga.correspondence@oga.gsi.gov.uk)

### OGA HQ

AB1 Buildings  
48 Huntly Street  
Aberdeen  
AB10 1SH

### OGA London

4th Floor  
21 Bloomsbury Street  
London  
WC1B 3HF

 [www.linkedin.com/company/oil-and-gas-authority](https://www.linkedin.com/company/oil-and-gas-authority)

 [twitter.com/ogauthority](https://twitter.com/ogauthority)

## Download the OGA Corporate Plan at:

---

[www.gov.uk/government/publications/  
oil-and-gas-authority-corporate-plan-2016-2021](http://www.gov.uk/government/publications/oil-and-gas-authority-corporate-plan-2016-2021)



Oil & Gas Authority

Copyright © Oil and Gas Authority 2016

[www.gov.uk/oga](http://www.gov.uk/oga)