



Oil & Gas
Authority

OGA – Information & Samples

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24th May 2016

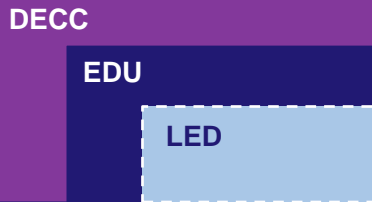


Building the OGA

Evolution of the OGA

Calendar

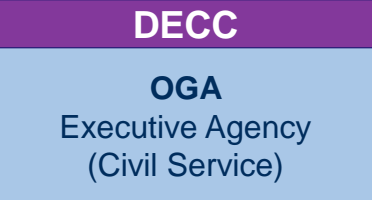
Historically



Framework Document

Calendar

April 2015



Energy Bill 2015

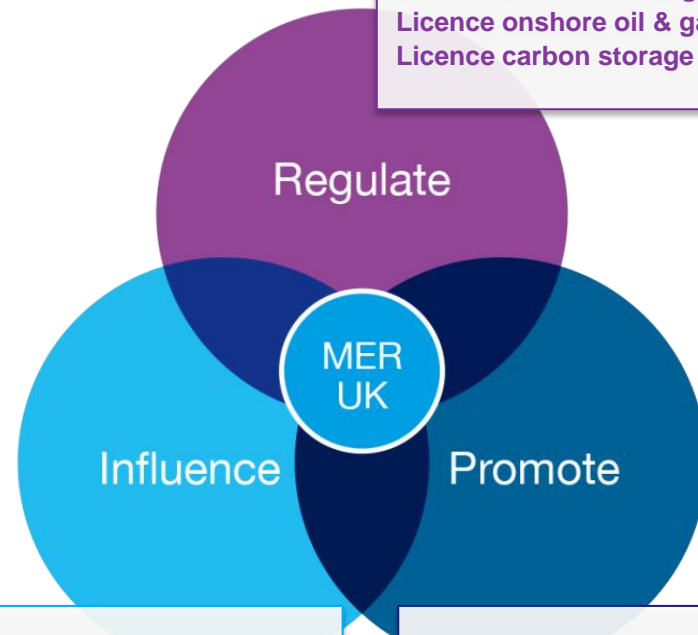
Calendar

Summer 2016



About the OGA

Licence offshore oil & gas
 Licence onshore oil & gas
 Licence carbon storage



Industry culture
 Commercial behaviour
 Greater collaboration

Investment in UKCS
 Value creation
 Industry development

Tripartite approach working with Government & Industry



2016 Corporate Plan Priorities



OGA Corporate Plan 2016-2021



February 2016

Revitalize Exploration

- Seismic Program
- Exploration Strategy & Plan

Improve Asset Stewardship

- Asset Stewardship Strategy & Plan

Drive Regional Development & Protect Critical Infrastructure

- Develop Regional Plans
- Sullom Voe Terminal
- Theddlethorpe Gas Terminal

Develop People, Processes & Systems

- Governance framework
- Shared Services

Improve Decommissioning Efficiency

- Decommissioning Strategy & Plans

Leverage Technology & Data

- Technology Strategy & Plans
- Data Strategy and Plans
- IT transformation

Create the Right Conditions

- Policy & guidance
- 29th Licensing Round
- MERUK Forum and Boards
- Contingency team
- Transformation Projects

Effective data management underpins nearly all OGA activities



Data - Revitalising Exploration

2015 UK Government £20m funded seismic



- 40,000km new & legacy data
- Rockall Trough & Mid-North Sea High
- Data freely available end Q1 2016
- 29th 'Frontier' Licensing Round in 2016
- Data packages downloaded 6000 times

2015 & 2016 Seismic Acquisition Programs

- 2015 Data package released over 200 applicants
- 2016 tender process to commence by mid April
- Areas identified by industry South West Britain & East Shetland Platform

OGA Competition to Define Potential

- £1m prize money shared between 2016 & 2017
- 2016 seed money awarded to 9 companies

New World-Class Visualization Facility

- £700,000 funding Lyell Centre in Edinburgh which is a JV between BGS and Herriot Watt University

Post-Doctoral Appointments

- 750,000 for three post-doctoral appointments in geoscience and reservoir engineering

Over £40m government funding in last 2 years plus support to academia



Increased Importance of Data

2003 Forties reserves stated as: 144 MMbo

Apache production by 2015 year end : 235 MMbo

Reserves remaining at Y/E 2015: 96 Mmbo

Forties field: an updatable full field model

Written by Jeffery Pyle, Gordy Shanor Thursday, 30 December 2010 18:00

[Print](#) | [Email](#)

The overhaul of the reservoir model of the giant Forties oilfield – from data management to full field simulation – is described here by operator Apache North Sea's **Jeffery Pyle** and Schlumberger's **Gordy Shanor**.

Production from the Forties field began in 1975, peaking four years later at approximately 550,000b/d. By 2003, when Apache had taken over as operator, production had declined to about 42,000b/d. By 2008, field rejuvenation activities had increased production to an annual average of 61,700b/d. To date, Apache has invested in excess of \$2.8 billion on facility upgrades, maintenance and infill drilling.

In 2008/09, Forties was the second largest producing field in the UKCS and in July 2009 monthly production averaged 73,500b/d, the highest monthly average since May 1999.



Apache brings two more Beryl fields online in North Sea

02/14/2014

Offshore staff

HOUSTON – Apache Corp.'s UK North Sea production in 4Q 2013 averaged 75,212 boe/d, up 13% from 3Q 2013. This was due to strong drilling results and recovered volumes from turnaround programs, the company said.

The XSP horizontal well, drilled from the **Beryl Alpha platform**, encountered 688 ft (210 m) of net oil pay along the wellbore. The well came online in December and achieved an initial 30-day production rate of 7,500 b/d of oil and 2.8 MMcfd (79,290 cm/d) of gas.

Also in December, the **Beryl Bravo B75** came onstream with an initial 30-day production rate of 3,740 b/d and 6.5 MMcfd (184,060 cm/d).

Commissioning of the new Forties Alpha Satellite Platform is 99% complete with only the first oil systems remaining. The facility is expected to be fully operational during the current quarter with drilling expected to start this spring.

Apache huge success on Forties and Beryl underpinned by data



Data – the Wood Report & OGA

Wood Report - Data

- Ensure greater access to timely and transparent data necessary for a competitive market.
- Encourage appropriate data sharing within the regional development plans.
- Obligation to meet current obligations for the retention and release of data, requirement for the OGA to collect and release data, consider shortening release periods for publication of data, pass data to appropriate repository on licence relinquishment.
- Develop a sustainable and unified approach to the management of petroleum-related geoscience data.

OGA Data Direction

- Improve data quality and availability
Call to Action: Six months on – September 2015
- OGA to co-ordinate data quality and sharing
OGA Overview – September 2015
- Improve the quantity, timeliness and reliability of data and information available internally to the OGA and externally to industry
Call to Action: The OGA Commission – February 2015
- Provide high-quality geological maps such as play fairway maps integrating with neighboring countries including Norway
OGA Corporate Plan – March 2016
- The OGA are in a unique position of having information that many operators/other industry bodies do not have
Guide to Building the OGA – August 2015

Provisions of Bill and Regulations designed to support & enforce better data stewardship and sharing



Energy Bill & MERUK Strategy

Energy Bill

- Energy Bill recently became law
- Royal Assent granted May 12th 2016

Sanctions

Licence Revocation

Fines up to £1m

Improvement
Notices

Rewards

Greater value via
cooperation

Transparency and
better data access

Timely, effective
decision making

MER UK
benefits all

MER UK Strategy

- Strategy in force since March 18th 2016
- ‘Plans’ will be developed to assist collaboration - with input from industry
- Comprises - Central & Supporting obligations, Required Actions & Behaviours, Safeguards

Central obligation

*“Relevant persons must, in the exercise of their relevant functions, take the steps necessary to secure that the **maximum value of economically recoverable petroleum is recovered** from the strata beneath relevant UK waters.”*

Provisions of Bill and Regulations designed to support & enforce better data stewardship and sharing



Information & Data Strategy

Industry

Public

Government
Agencies

Environment
al Groups

Local
Authorities

Academia

New Regulations

- Design regulations and guidelines as per the Energy Bill
- Consult with industry / relevant parties
- Create plan for implementation

Data Quality Management

- Make substantial improvements to the current PPRS solution – production reporting
- Start work on creating a single UK version of all well records
- Start work on improving other systems of record

Unified Data Store

- Engage with CDA on service and contract alignment
- Undertake current state assessment and define future state requirements
- Outline plans for centralised NDR & unified data access including website

OGA Data Organisation

- Create OGA data management team
- Review current services against future state requirements
- Create enhanced industry stewardship data
- Enhanced mapping & website
- Use of data analytics to support decisions

Industry Collaboration

- Complete the formation of the OGA IM Forum for industry collaboration
- Identify three clear priorities for working groups to address by the end of 2016
- Deliver on priorities and report back on progress
- Support existing collaborative initiatives

Data Governance

- Develop with industry data governance model – including information & samples coordinators
- Consult with industry
- Implement within the industry

Data management competences will be key to execute



Key Messages

- Data management is critical to the support of OGA and industry obligations
- The changing regulatory regime will put greater emphasis on DM skills and governance in industry
- Effective data management is needed to support exploration and production activities
- Professionalising data management can have a high impact on the industry

Professionalising data management can have a significant impact on the bottom line for the UK