Maximising Economic Recovery from the UKCS, are policies and practices sufficiently aligned?

BIEE conference – 24 September 2015

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Maximising Economic Recovery from the UKCS, are policies and practices sufficiently aligned?

• Industry Overview
• Policy objectives
• Risk management
• Industry response
Oil and gas will continue to provide 70 percent of UK’s energy, How much will come from the UKCS?
UKCS at 50 year – produced 43 billion boe, up to 22 billion boe still to come
Negative post-tax cash flow (-£4.2 billion) in 2014, the first since 1977, is unsustainable.
Industry has limited control over key risks which will shape the future of the UKCS
Oil price has more than halved over last twelve months after three years of high and stable prices.
Operating costs have routinely grown by 10 per cent per year over the first half of this decade.
Cost and efficiency improvements should bring average UOC down to £15/boe average by 2016.

Latest opex changes 2014 - 2016

<table>
<thead>
<tr>
<th>Year</th>
<th>Total OPEX (£ billion)</th>
<th>Reduction from Existing Fields</th>
<th>Contribution from New Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014/15</td>
<td>£9.7 bln</td>
<td>£9.7 bln</td>
<td>£0.0 bln</td>
</tr>
<tr>
<td>2015/16</td>
<td>£9.3 bln</td>
<td>£0.4 bln</td>
<td>£0.6 bln</td>
</tr>
</tbody>
</table>

Impact on UOC 2014 - 2016

Unit Operating Cost (£/boe)

Source: Oil & Gas UK
Oil & Gas UK - Efficiency Task Force (ETF) will embed improvements across the industry

The ETF will drive pan-industry improvement to create a sustainable sector ...
Energy policy objectives for the UKCS over the last 15 years?

• Mixed signals
  - Taken for granted
  - Security of supply
  - Rent seeking
  - Value recognition
  - Value maximisation
Regulatory reform – The Oil & Gas Authority is already making a positive impact

Tripartite approach to Maximising Economic Recovery from the UKCS
The UKCS has earned a reputation of fiscal risk

UKCS Net Rate of Return (pre-tax) - ONS

- UKCS net rate of return (%)
- Nominal dated Brent ($/bbl)

Source: ONS, Argus

* 1Q15 projection

Source: ONS, Argus
Whilst there has been significant improvement over recent years, fiscal reform must continue

Fiscal policy principles:

• The overall tax burden will need to fall as the basin matures

• The wider economic benefits should be considered

• Global competitiveness to take account of both commodity prices and costs
European regulatory landscape is significant influence on UKCS

- Sustaining UKCS vital for European energy security
- Increasingly exposed to regulation that diverges from the traditional European legislative process
- Environmental considerations need to reflect context of international competition
ETS Directive and carbon leakage protection

- ETS compliance is a significant and rising operating cost in Phase III and will increase further as Phase IV (2021-30) proceeds.
- Rising cost of ETS may deter investment in new fields and in energy efficiency offshore.

Source: Directorate - General Climate Action - European Commission

UKCS CO2e Emissions
Internal energy market and EU Network Codes

- Whilst scope of the Third Energy Package excluded the upstream industry EU Network Codes still had an impact on producers via downstream network access and costs
  - Examples in UK include Gas Day change and proposed gas quality standard
- Caution on EU-wide harmonisation “One size does not fit all Member States”
- Question providing additional powers for ACER at expense of national regulators
Production and production efficiency are improving as result of previous investment and close collaboration across industry.
Sustaining investment on the UKCS during the downturn will be crucial for the long term outlook.
Maximising recovery from the UKCS will continue to require a delicate regulatory approach

- 11.5 to 22 Billion boe
- 100,000s of Jobs
- Diverse Supply Chain
- £39 Billion
- £16 bln of Exports