

Innovation will **Unlock the** Future

Malcolm Banks, OGTC Seminar

Oct 2017

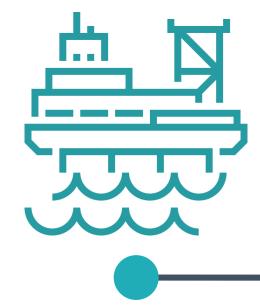


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SPE Inwell Flow Surveillance & Control

In context



1999 peak production 5 mmboe/day

> 2016 Production: 1.65 mmboe/day

44bn barrels since 1970 £330 billion in corporation tax

10-20 billion barrels **potential** remaining

Every 1bn barrels produced generates £50bn of value for the economy



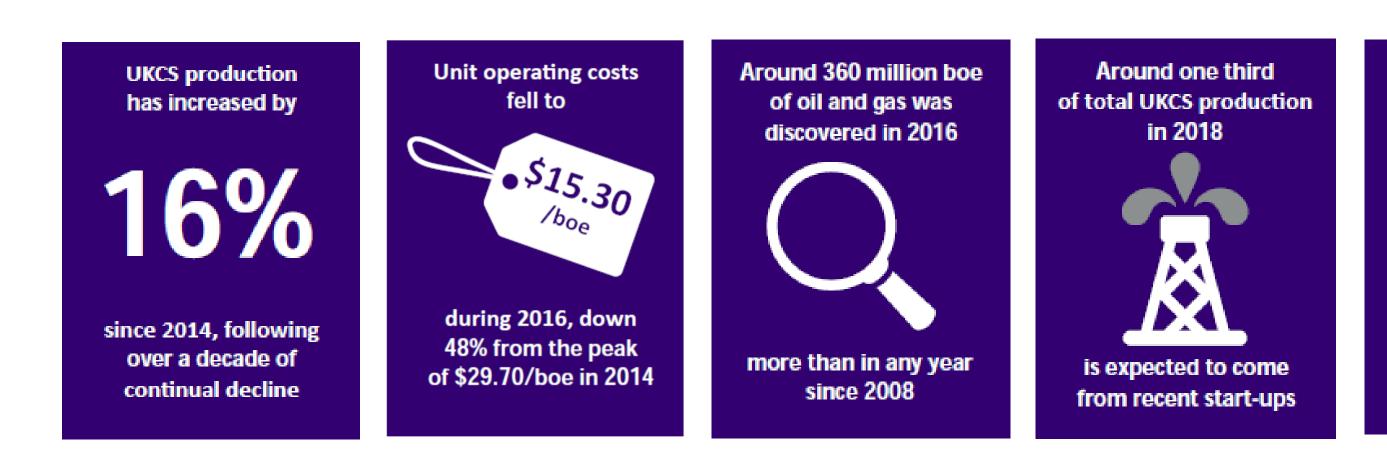
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330,000 jobs in UK from oil & gas
(~ population of 4th, 5th & 6th Scottish cities combined)

Current Position



Positive Response over the past two Challenging Years



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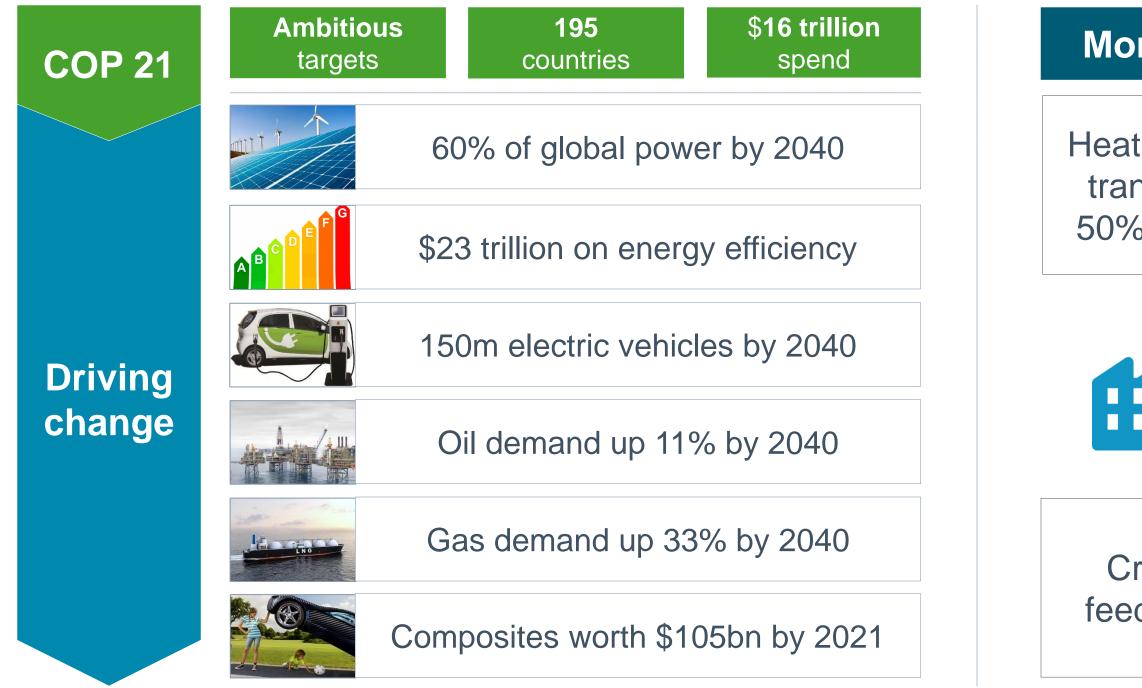
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Up to 14 new developments are being considered for approval over the next two years



Data source Oil & Gas UK : Business Outlook 2017

The future



Meeting our needs for energy, materials and climate change

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More than power, heat and transport

Heating and transport: 50% - 60%

Industrial: 20% - 40%

Non energy: 10% - 20%





Critical feedstock feems Agriculture to plastics

Technology vision

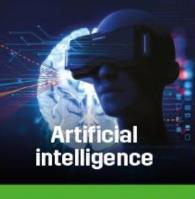
Fix today Thermite plug Drones Virtual Additive reality manufacturing Advanced IDSE. inspection snake

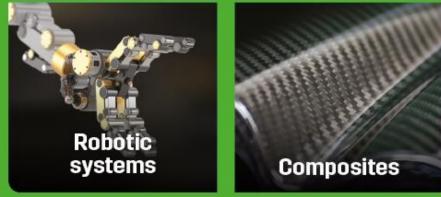
Maximise recovery











Technology can transform the oil and gas industry for the low carbon

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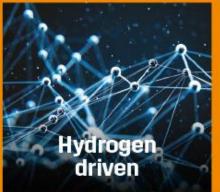
Transform tomorrow





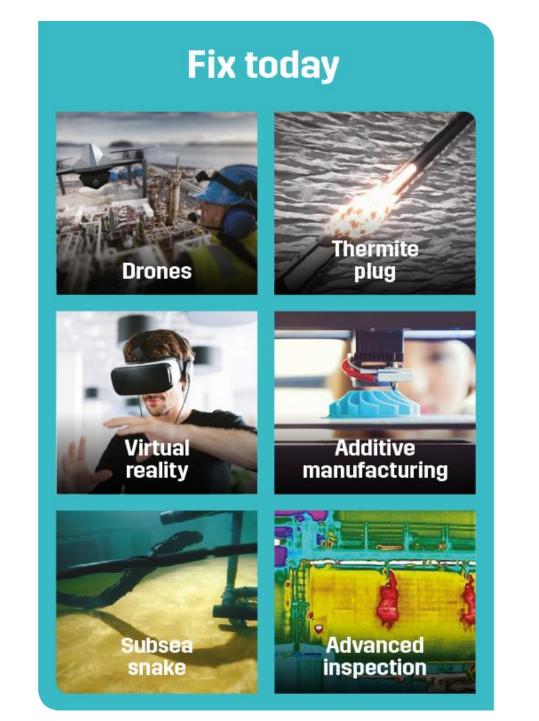
Carbon

focused





Enabling MER UK





Inspiring, accelerating and funding technology innovation



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Asset Integrity

Eliminating the impact of asset integrity on uptime



Well Construction

Reducing drilling costs by 50%



Small Pools

Developing up to 3.4 billion barrels of oil and gas discoveries



Decommissioning

Driving down the cost of decommissioning



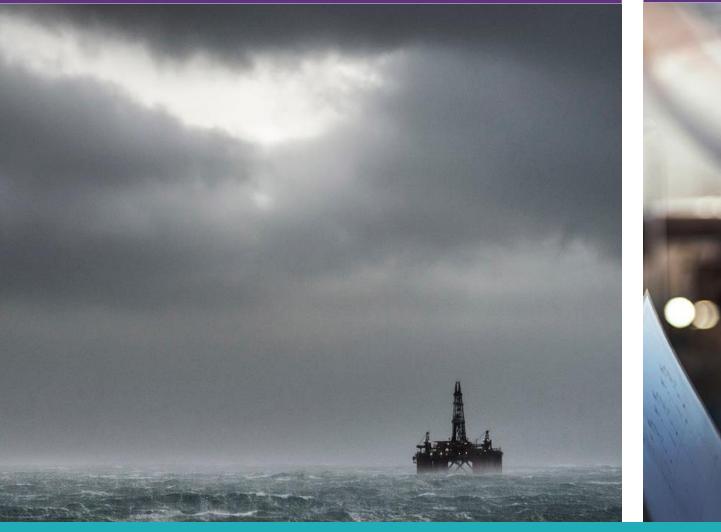
Digital Transformation

Transforming performance and unlocking hidden data

Creating value

Unlock the potential of the UK North Sea

Anchor the supply chain in North East Scotland





£180m City Region Deal public funding

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Create a culture of innovation that attracts industry and academia



Our purpose and invest

theOGTC.com

A not-for-profit research and development organisation



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Making sure the North East of Scotland remains a great place to live, work