



Development and exploration in the UK
today, tomorrow and beyond

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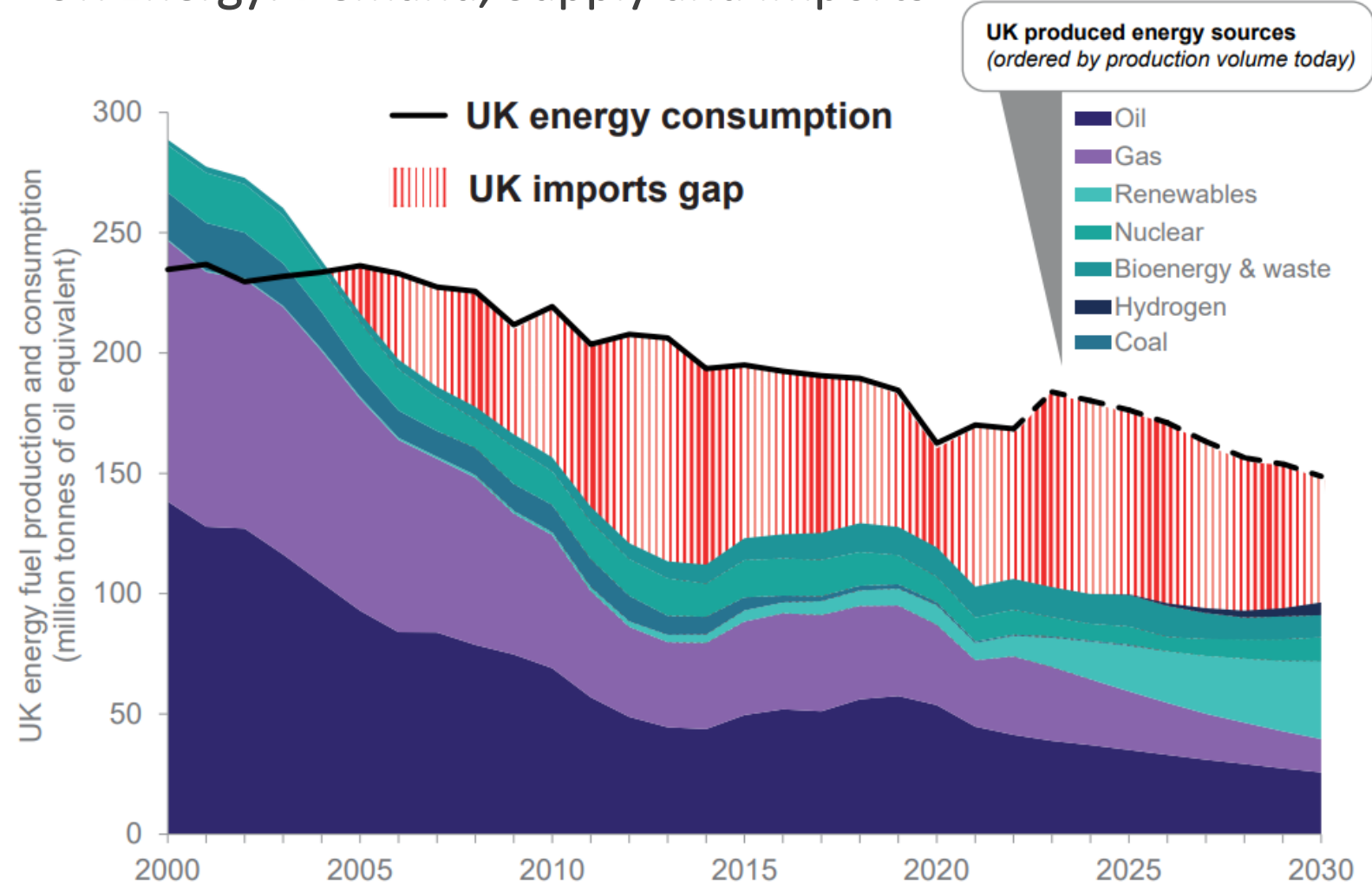
DEVEX Drivers: Near Term

Energy and Security

What are we doing to:

- *Accelerate projects*
- *Reduce costs*
- *Increase production*
- *Reduce emissions*

UK Energy: Demand, Supply and Imports



Sources: NSTA, DESNZ, CCC, OEUK

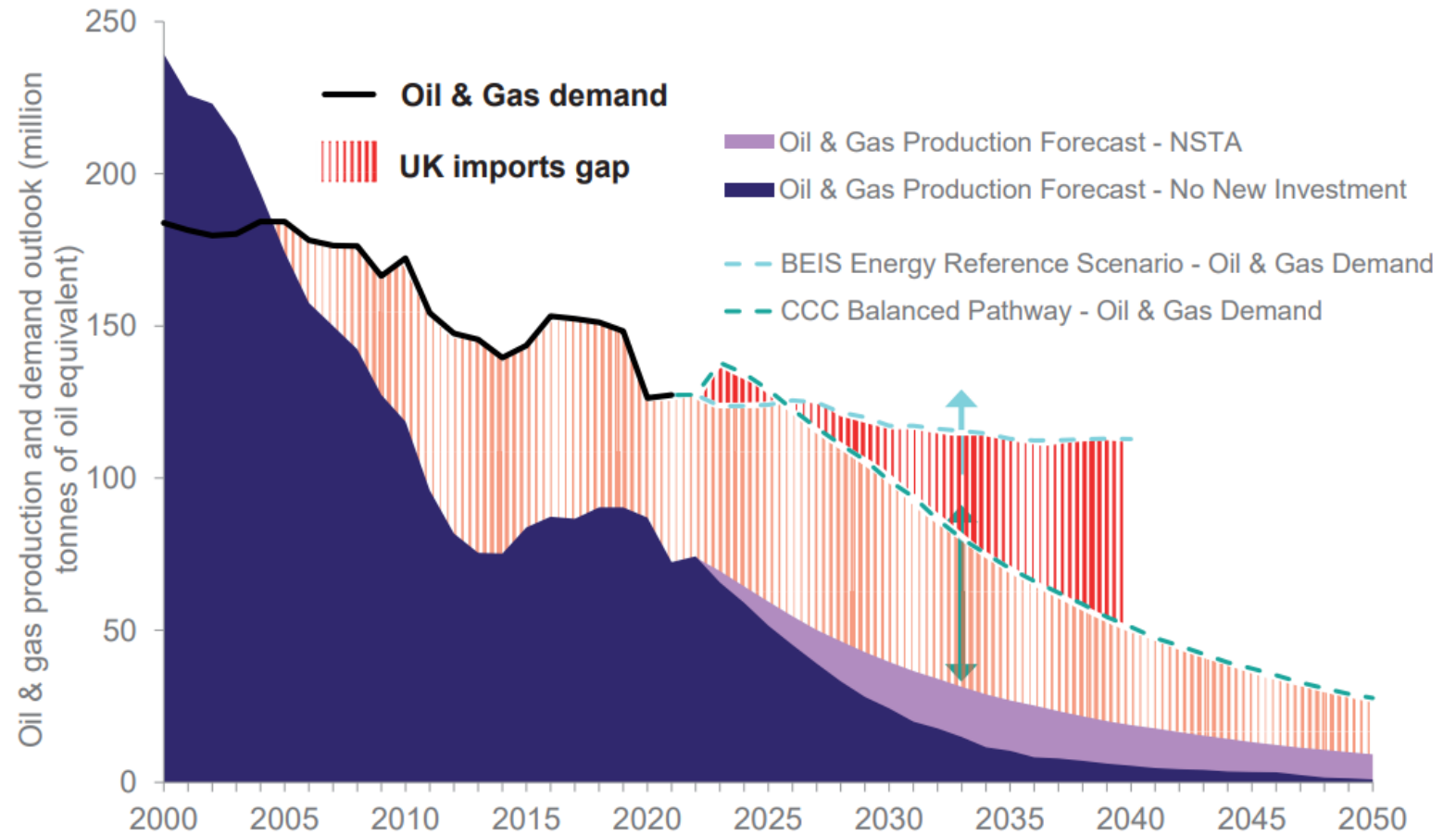
DEVEX Drivers: Longer Term

Energy and Security

What are we doing to:

- *Accelerate projects*
- *Reduce costs*
- *Increase production*
- *Reduce emissions*

UK Energy: Demand, Supply and Imports
CCC vs BEIS Scenarios



Sources: NSTA, DESNZ, CCC, OEUK

UK Production Landscape



Opportunities

- Infill drilling
- Extending field life
- Low impact development
- Greenfield net zero developments
- Energy hubs
- Emissions reduction
- New technology

Threats

- Lack of investment
- Exploration risk aversion
- Early abandonment
- Reliance on imports
- Soaring prices
- Shortage of equipment
- Loss of jobs and talent
- Loss of tax income

DEVEX: Technical Programme

- Maximising recovery/case histories
 - Brodgar recovery, Orlando subsea tie-back, Gannet infill
 - East Everest, Buckland seismic reprocessing, East Everest
- Technology
 - AI seismic interpretation, autonomous water injection control, hydraulic stimulation, e-line HP perforation
 - Fibre optics on Culzean and VSPs, Machine learning on well delivery,
- Production Enhancement
 - Carbonated water injection, pressure dependent permeability, sand control, EOS modelling, collaboration in Leverett field
- New Energy
 - Emissions management, CO₂ storage, AI and CCS, Hydrogen storage with CO₂ cushion, H₂ storage in aquifers
- Exploration
 - Global exploration review

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