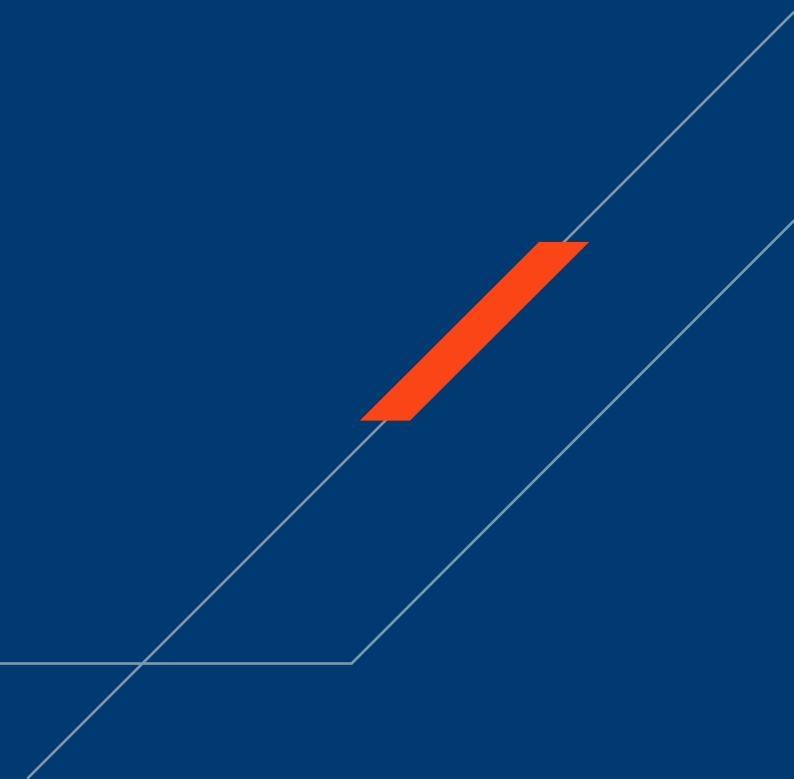


Harbour Energy – a decade of decom

Rebecca Graham, Decommissioning Project Engineer

A decorative graphic in the bottom right corner consisting of two parallel white diagonal lines forming a channel, with a solid orange parallelogram placed within it.

Harbour Energy – a decade of decom

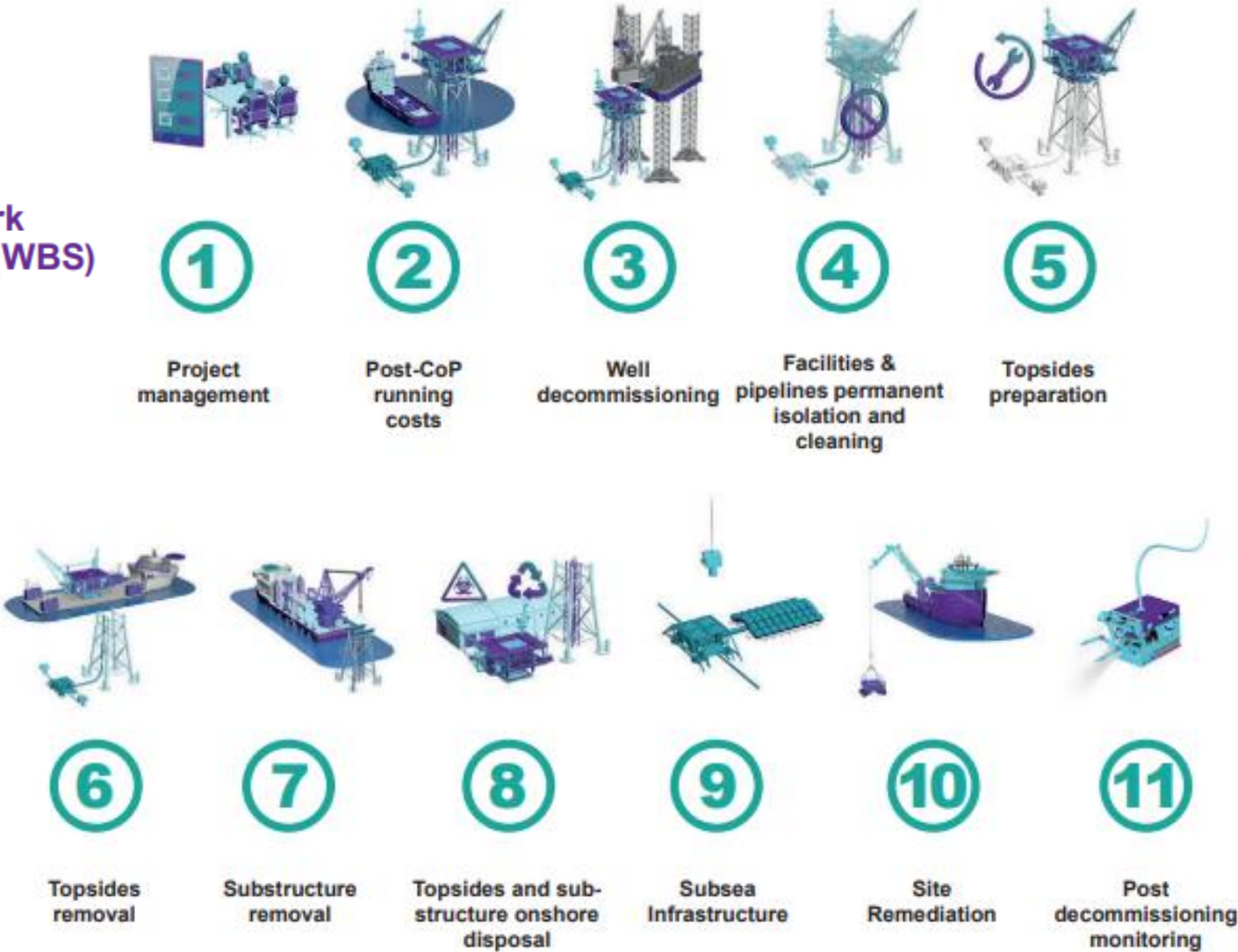
Harbour Energy decommissioning - 10-year timeline



Harbour Energy – a decade of decom



Offshore Energies UK Decommissioning Work Breakdown Structure (WBS)



170

wells plugged and
abandoned since 2014*.

*across the Southern North Sea (SNS), East Irish Sea (EIS),
MacCulloch, and Exploration and Appraisal.



170

wells plugged and
abandoned since 2014*.

*across the Southern North Sea (SNS), East Irish Sea (EIS),
MacCulloch, and Exploration and Appraisal.



>1,700km

of Harbour pipelines
flushed, cleaned and
disconnected and a further

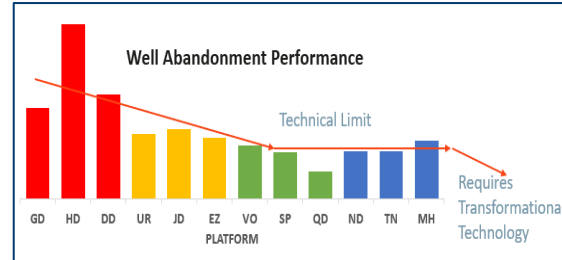
400km

completed for other
operators.



Harbour Energy – a decade of decom

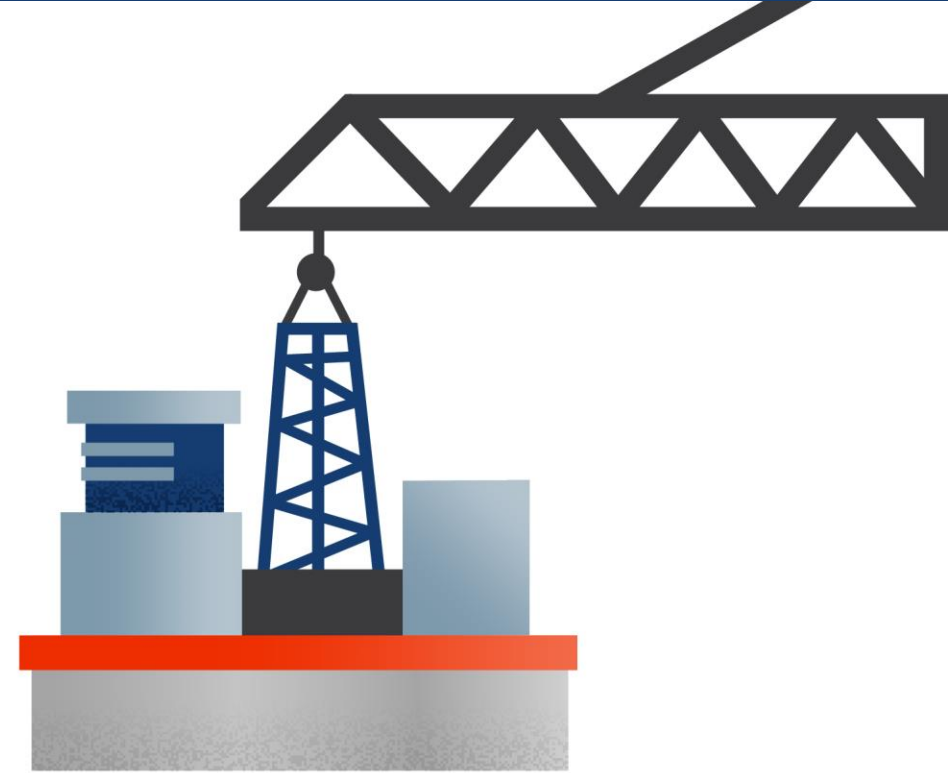
Well decommissioning, facilities and pipeline cleaning and topsides preparation



- UK supply chain accounts for ~40% of well abandonment spread rate, and supported pipeline and topsides flushing
- Extensive use and support of new technology development through critical path trials on the rig
- Combined well abandonment and platform decommissioning strategy critical for success

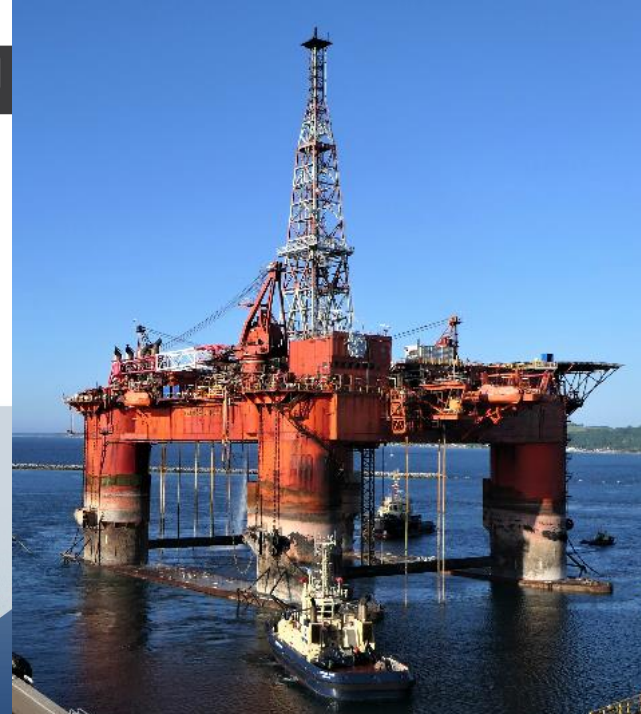
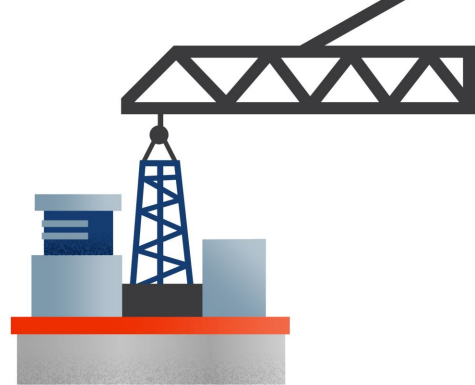
33

platforms removed,
dismantled and recycled
in the SNS - remaining five
to be removed in 2025.



33

platforms removed,
dismantled and recycled
in the SNS - remaining five
to be removed in 2025.



Balmoral Floating Production Vessel (FPV)

flushed, cleaned
and dismantled.



2

other FPSOs taken off
station at Huntington
and MacCulloch.



Harbour Energy – a decade of decom

Topsides and substructure removal



- Maintaining flexible solutions - Harbour ITT process does not prejudice removal solution or disposal location
- Harbour Energy directly contracted scopes executed with UK suppliers
- Re-use / re-purpose of infrastructure pursued, however not always practicable e.g. Balmoral FPV

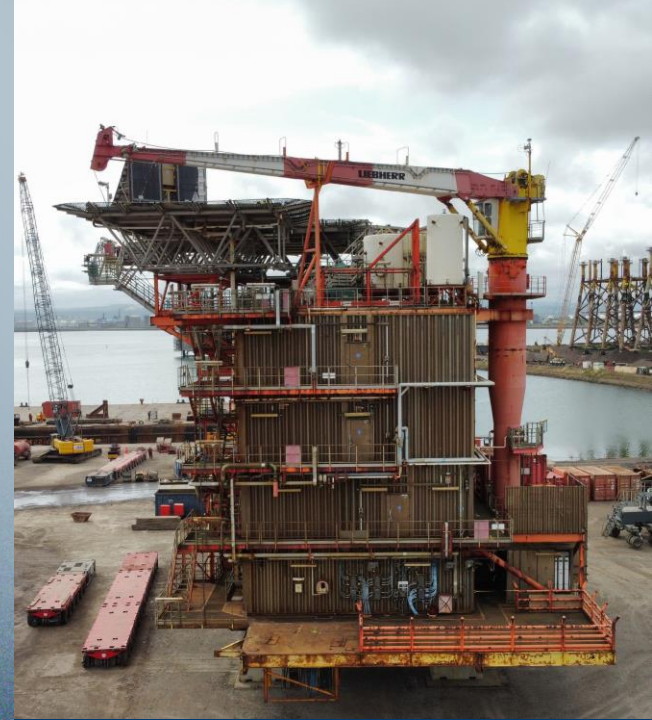
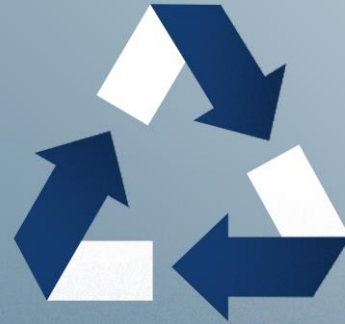


>97%

re-use and recycling
rates achieved.

Theddlethorpe Gas Terminal (TGT)

cold-stacked and demolished.



All done
safely
and cost-efficiently.

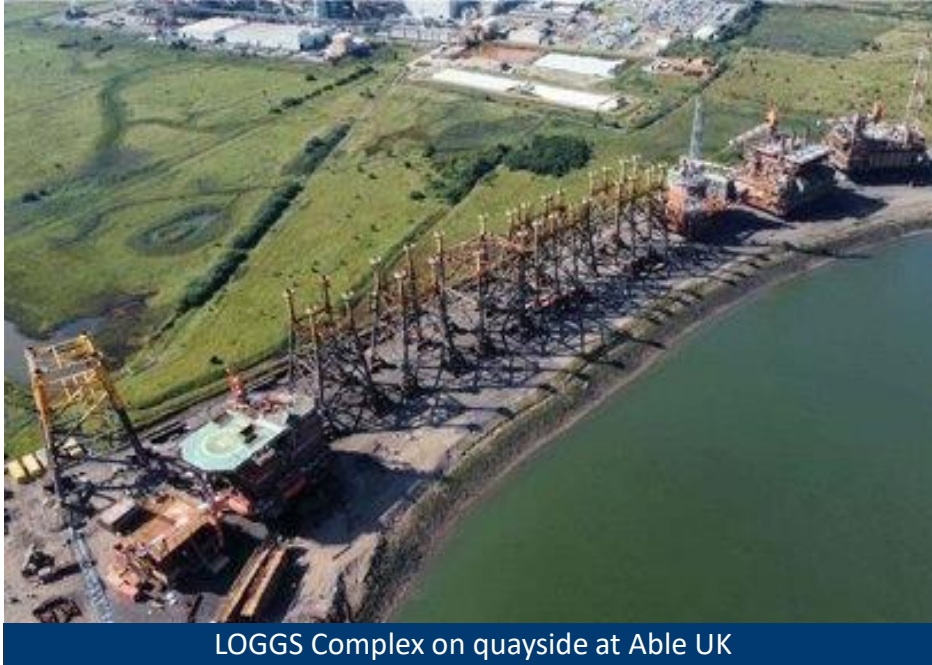


>97%

re-use and recycling
rates achieved.

Harbour Energy – a decade of decom

Topsides and substructure onshore disposal, subsea infrastructure and site remediation



- Offshore and onshore dismantlement and disposal supported by UK supply chain
- Significant volume of subsea infrastructure recovery >5500 Te in 2023
- Decommissioning project lifecycle supported throughout by the HSE, OPRED, NSTA and UK Supply Chain:
 - Enabling - development and approval of permits, Safety Case revisions, Environmental Appraisals, Comparative Assessments and Decommissioning Programmes
 - Engineering – early engineering, environmental studies and surveys

Harbour Energy UK Operated Decommissioning Portfolio – on the Glidepath

Solan



Huntington



East Irish Sea (EIS)



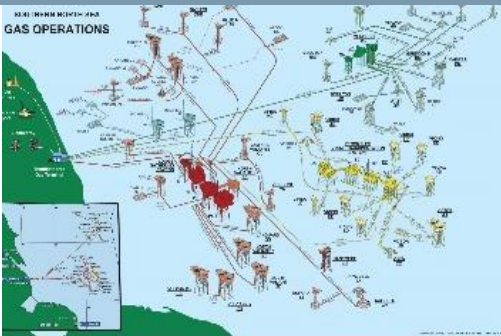
MacCulloch



Balmoral Area (incl. Caledonia)



Southern North Sea (SNS)



Decommissioning Challenges

For Operators, Supply Chain and the Regulators

- Harbour Energy welcome engagement with the UK regulators and supply chain to address the following key challenges:
 - New technology development through deployment and testing
 - Contract structures to realise multi-operator campaign opportunities
 - Saturated heavy lift vessel market
 - Availability of competitive UK disposal solutions
 - Efficient subsea infrastructure removal and seabed clearance
 - Post decommissioning monitoring strategy
 - Fit for purpose and appropriate guidelines



Addressing these key challenges is critical to a sustainable, cost-efficient UK Decommissioning Industry



A DECADE OF DECOM



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