

Emissions Reduction Technology Roadmap

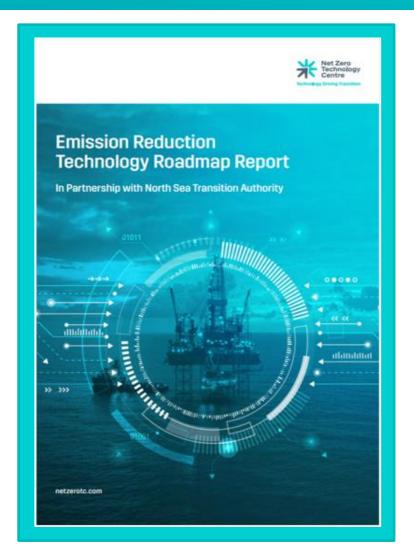
In partnership with North Sea Transition Authority

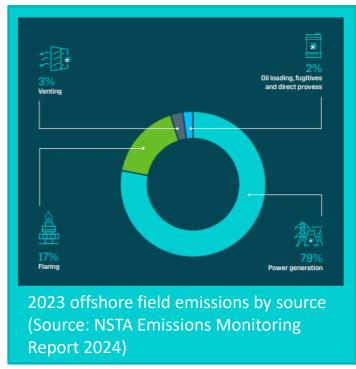
18th February 2025

Overview



- Developed by the NZTC in partnership with the NSTA for the Technology Leadership Board
- Valuable input from industry through workshops
- Aim: to serve as an industry resource to raise awareness of deployable technology which can reduce emissions from the most common sources in the upstream oil and gas sector.
- Also covered are technologies which are under development, detailing their current Technology Readiness Level (TRL)





Collaboration is essential

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Areas Addressed and Example Technologies

Power Generation Emissions

Largest contributor to GHG emissions from UKCS oil and gas production – 79% of emissions in 2023.

Power Generation	Energy Efficiency Improvements	Reducing Demand – right-sizing, modifications and system upgrades
		Waste Heat Recovery
		Power Generation Equipment
		Power Management
	Low Carbon Power Solutions	Alternative Fuels
		Full or Partial Electrification
		Small Scale Renewables
		Electrification of Equipment & Systems





Flaring and Venting Emissions

Currently, 20% of UKCS GHG emissions from oil & gas activities are attributable to flaring and venting

Flaring & Venting	Process Optimisation
	Flare Gas Recovery
	Vapour Recovery Units
ng &	Alternative Routing or Utilisation of Gas
Flari	Flare Optimisation
	Vent Optimisation



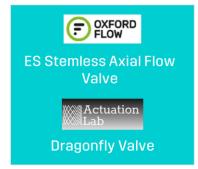




Fugitive Emissions & Other Integrated Asset Solutions

Fugitive emissions accounted for 2% of the total offshore field emissions in 2023.

Fugitive Emissions	Equipment and Fittings
	Integrity Management
Integrated Asset Solutions	Digital Solutions
Solutions	Robotics & Autonomous Systems
	Decommissioning







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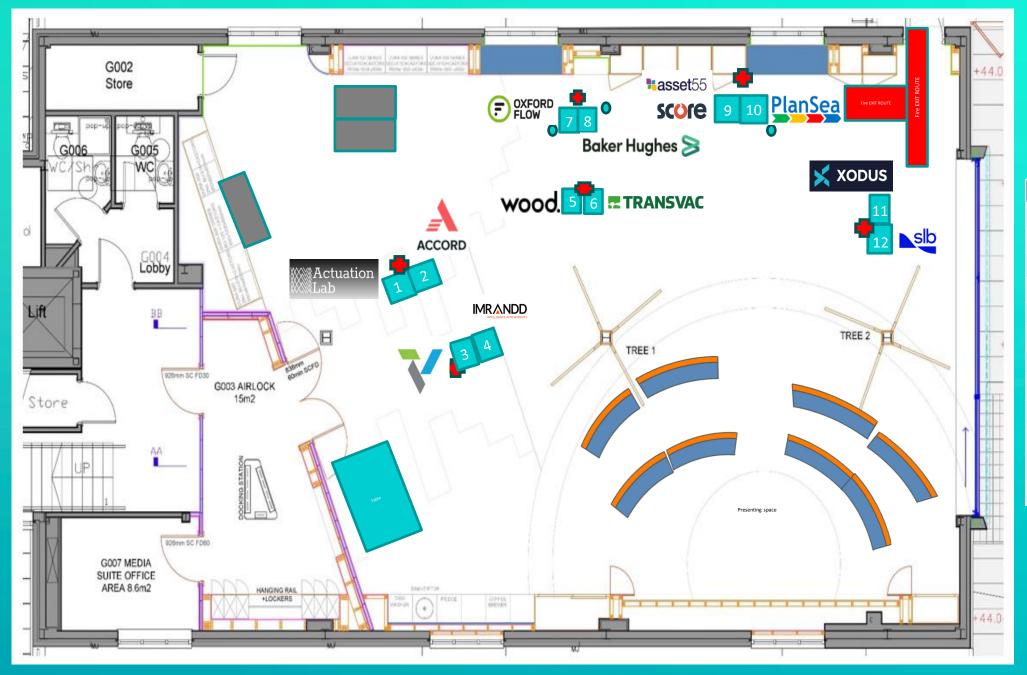
Next Steps...



Scan or enter the Menti code: 3205 2862

- Ask questions through Menti
- Participate in feedback session
- Visit the exhibitors
- Reach out to NZTC or NSTA
- Finally....if you have a project please let us know and we can host another event





Pod	Company
1	Actuation Lab
2	Accord
3	Verlume
4	IMRANDD
5	Wood.
6	Transvac
7	Oxford Flow
8	Baker Hughes
9	Asset55 & Score
10	PlanSea
11	Xodus
12	SLB