



OFFSHORE NORGE

Outlook in Norway - NCS Decommissioning including P&A activity the next 10 years

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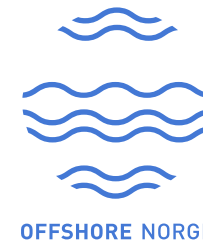
Offshore Norge P&A Seminar 19 October 2023



OFFSHORE NORGE

**ARE WE INNOVATIVE IN HOW WE
PLAN & EXECUTE OUR P&A
OPERATIONS?**

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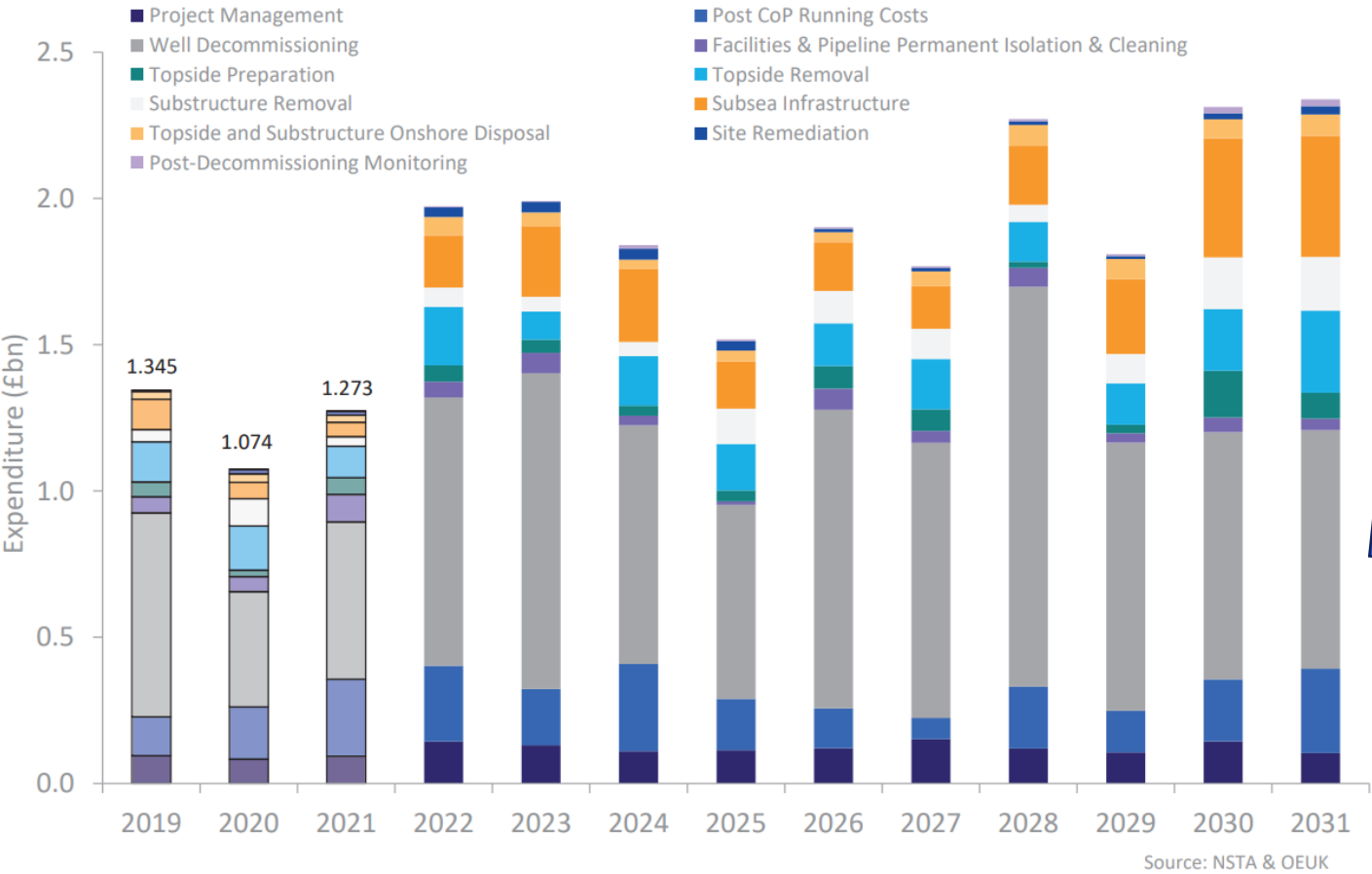
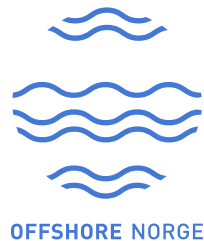
Examples from oil and gas on radical ways of **DISRUPTING** our business....

Digital inventories / 3D Printing

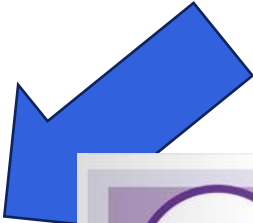
- Offshore Norge has been facilitating a collaboration between several operators on the NCS
- Goal -> to get down spare parts stock through "on demand manufacturing" and bring home supply chain lines
- **Estimated savings only on nylon screws 100 MNOK / yearly**



WHY IS P&A IMPORTANT?



Wells decommissioning accounts for 48% of expenditure



48% Wells decommissioning accounts for 48% of expenditure			
Cost per well (£mn)	2020	2021	2022
Platform well	2.76	2.70	2.56
Subsea well	7.96	7.81	7.89
E&A well	4.01	4.36	4.42

ALWAYS OPERATING SAFE



- As always we should have a goal of **zero incidents**
- Need to have continued focus on **barrier and integrity management** and ensuring **long term prevention of leakage of abandoned wells**
- **Zero well control incidents** is still the vision and goal

Ensuring these are "our license to operate", now and in the future



OFFSHORE NORGE

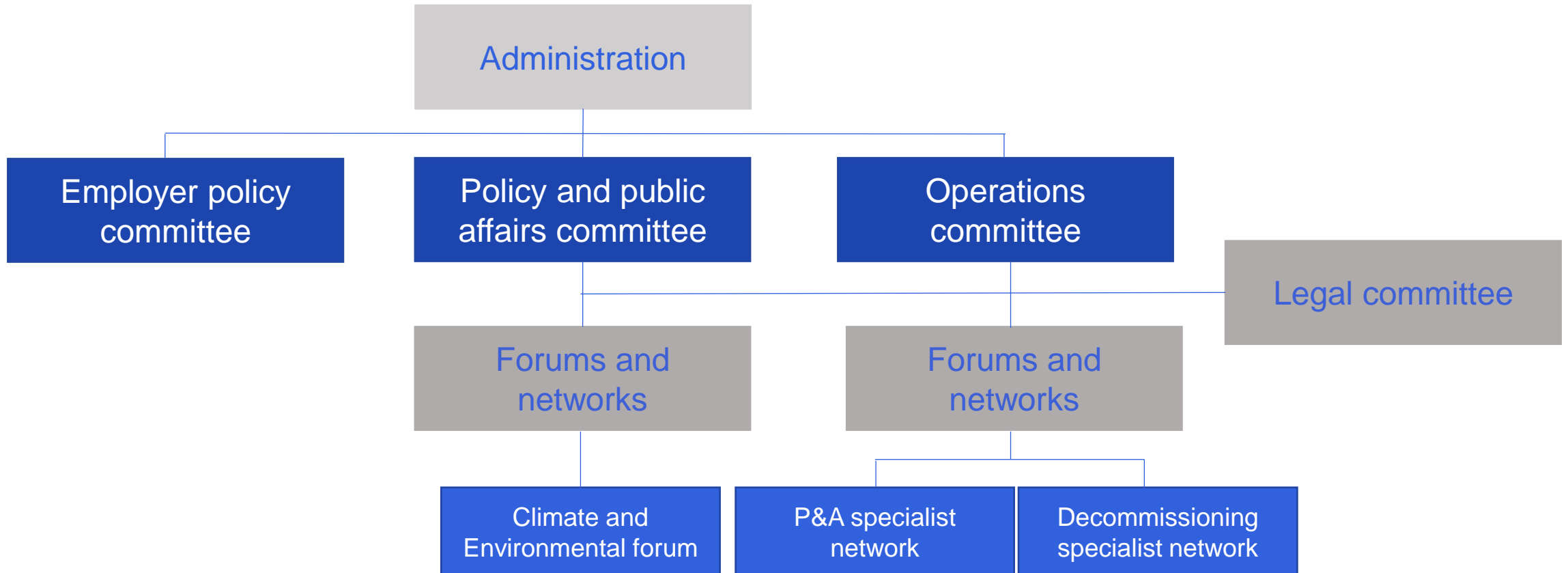
Offshore Norge

WHO IS OFFSHORE NORGE?

- **Employer and interest organization** for companies that operate on, or in connection with, the **Norwegian continental shelf**
- The membership is broadly composed of **oil and gas companies, offshore wind companies, mineral companies** and **supplier companies**
- We represent **120 companies** with around **35,000 employees**



OFFSHORE NORGE COMMITTEE STRUCTURE



Offshore Norge Data collection NCS – Decommissioning

Prepare for the future

DATA COLLECTION – VALUE AND BACKGROUND



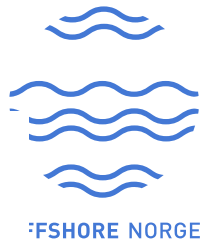
VALUE

- Overview of coming activity levels
- Prepare supplier market
- Provides timelines that will support the timing of required technical development
- Support Benchmarking
- Be of interest for the authorities
- Contribute to visualise requirements of possible changes to regulations

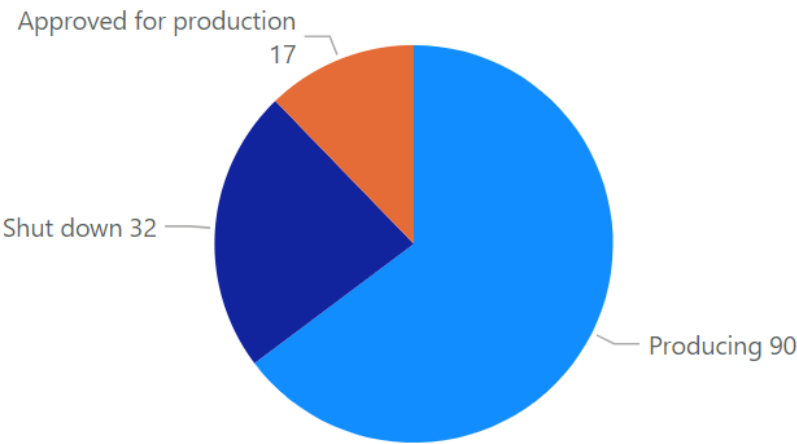
BACKGROUND

- The Data Collection was done in the period May to September 2023
- Eleven operators responded
- Data has been sent to Offshore Energies UK for inclusion into Insight Report 2023

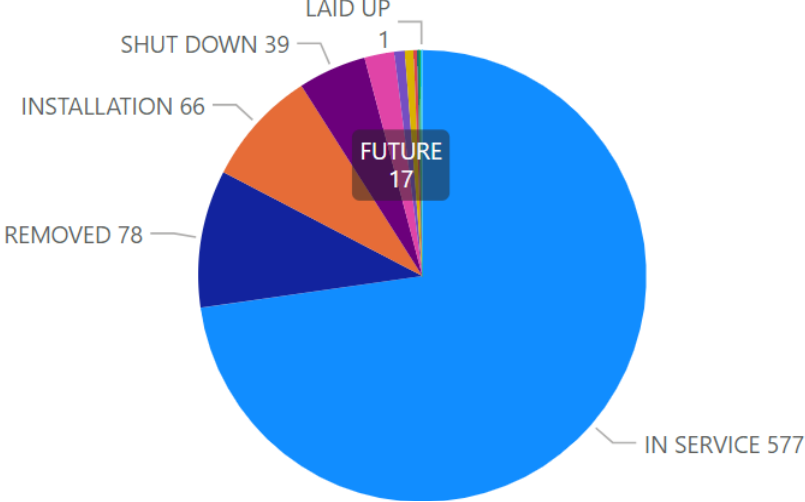
CURRENT STATUS NCS



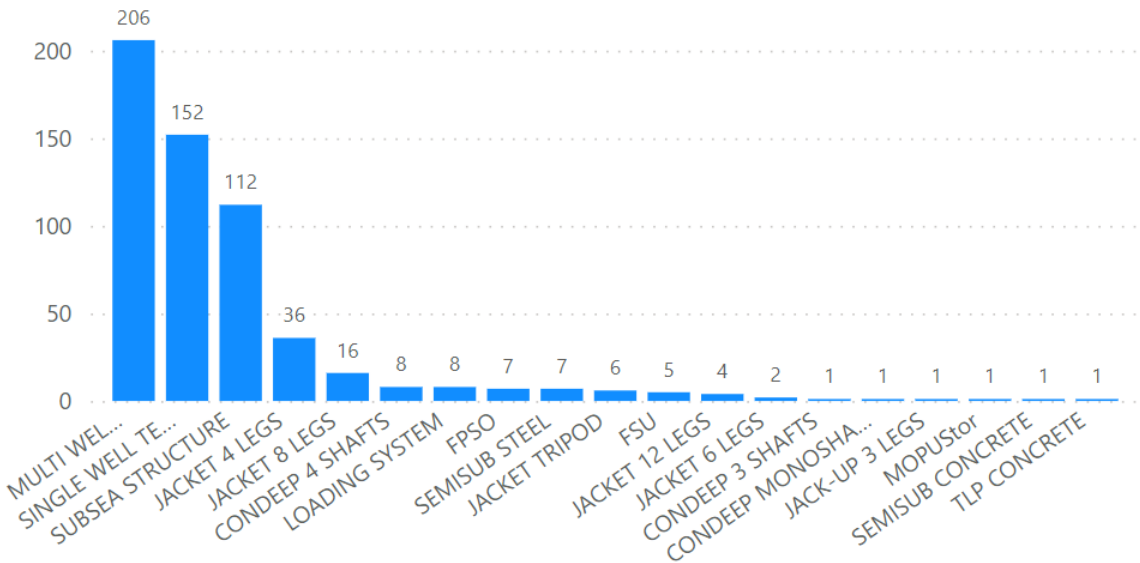
Field status NCS



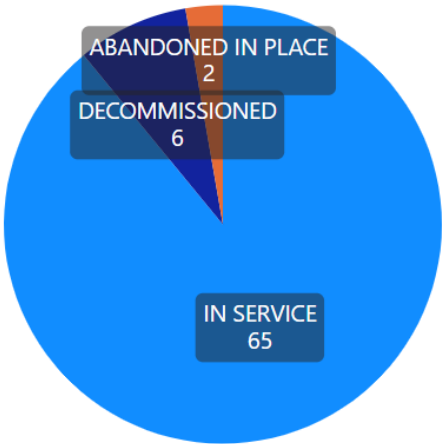
Fixed larger installations status NCS (excluding land facilities)



Type of offshore facilities currently in service



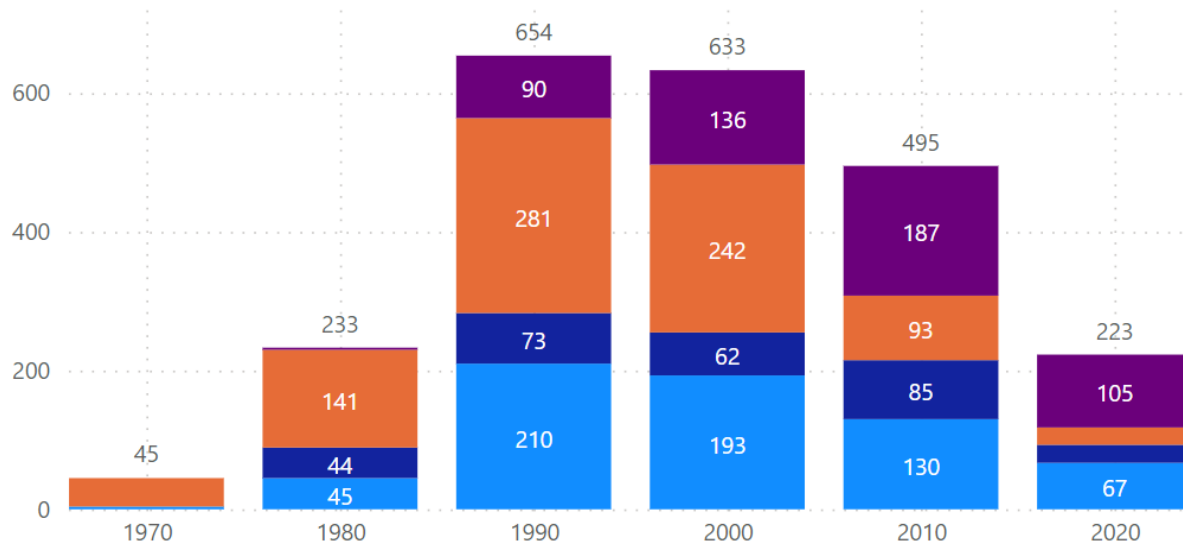
TUF Pipelines by status



CURRENT STATUS NCS



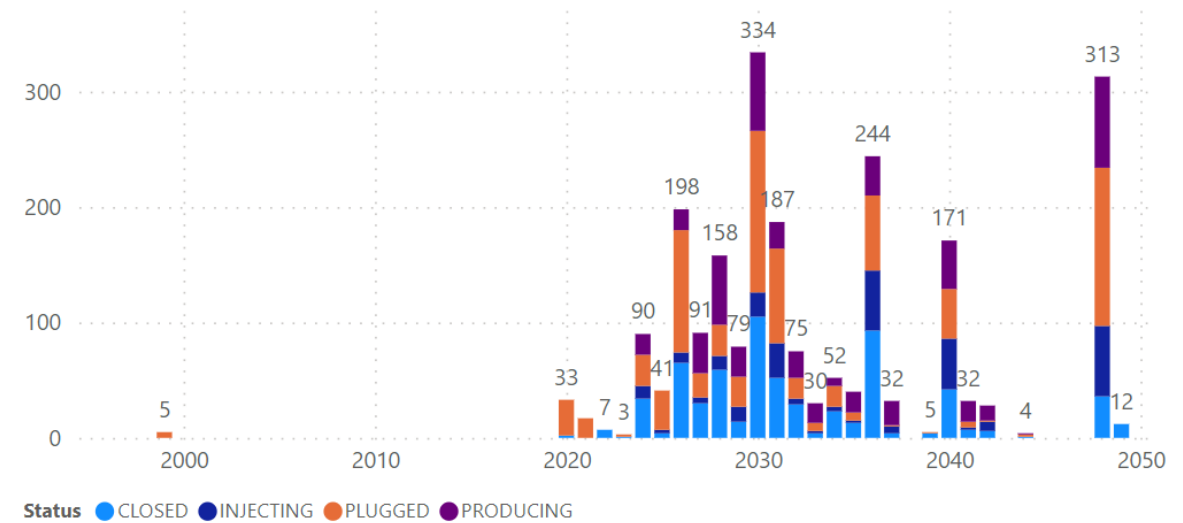
Wells by status and decade drilled



Status ● CLOSED ● INJECTING ● PLUGGED ● PRODUCING

Wells by status and expiration year of production license

Well status = CLOSED, PRODUCING, INJECTING, PLUGGED



Status ● CLOSED ● INJECTING ● PLUGGED ● PRODUCING

PLUGGED: The wellbore has been plugged, but the upper parts of the wellbore can be re-used. A sidetrack might be drilled at a later stage.

PRODUCING: It was produced from the wellbore at the time of the operators last monthly report to the NPD.

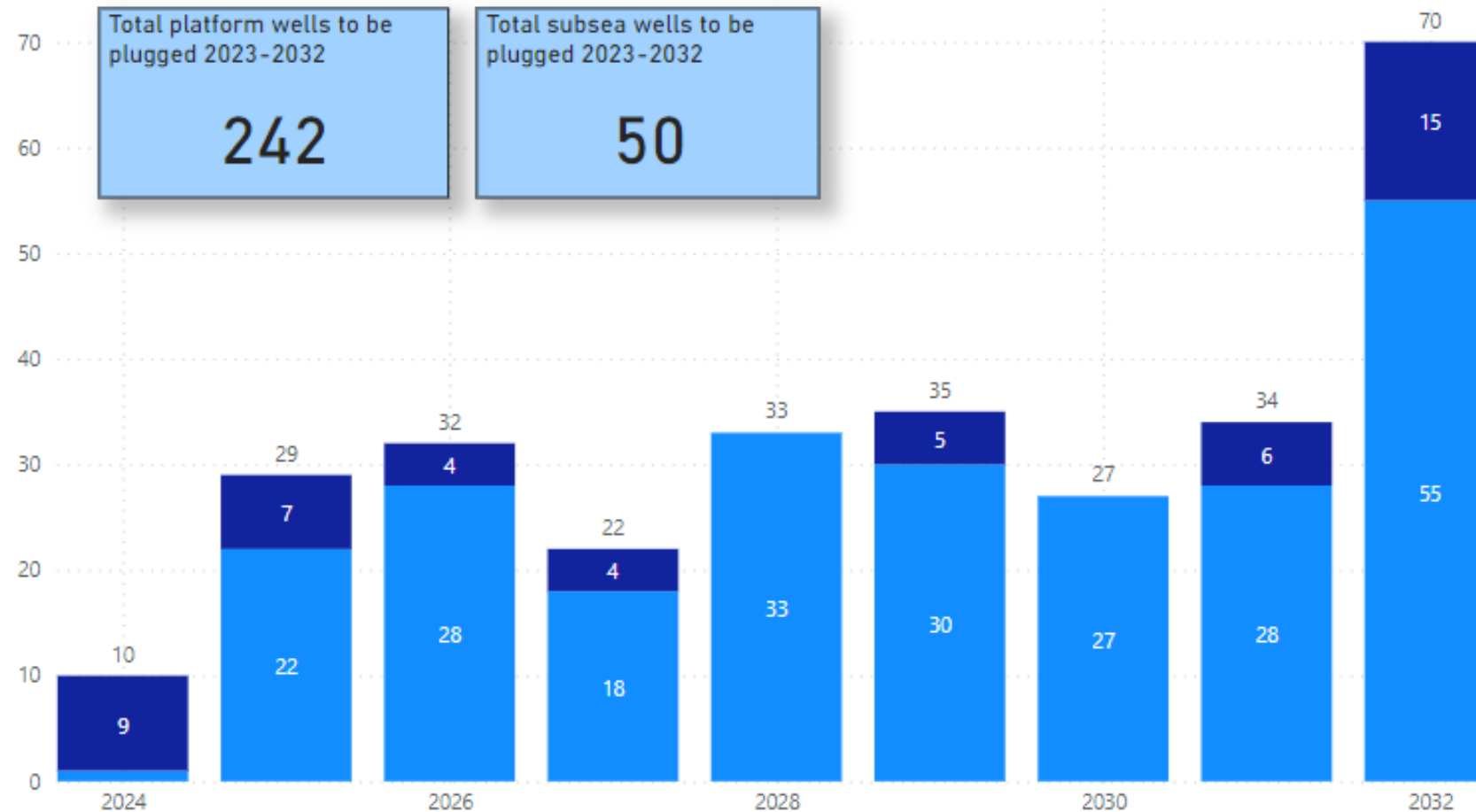
INJECTING: It was injected to the wellbore at the time of the operators last monthly report to the NPD.

CLOSED: A development wellbore that has been closed in a shorter or longer period. Also applies to development wellbores where drilling is completed, but production/injection has not yet been reported.

WELLS DECOMMISSIONING

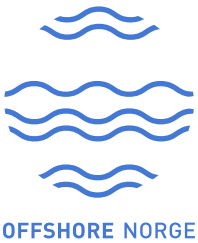
Expected P&A Wells (Subsea and platform) - Survey year 2023

● Platforms wells ● Subsea wells ● Suspended Subsea E&A wells

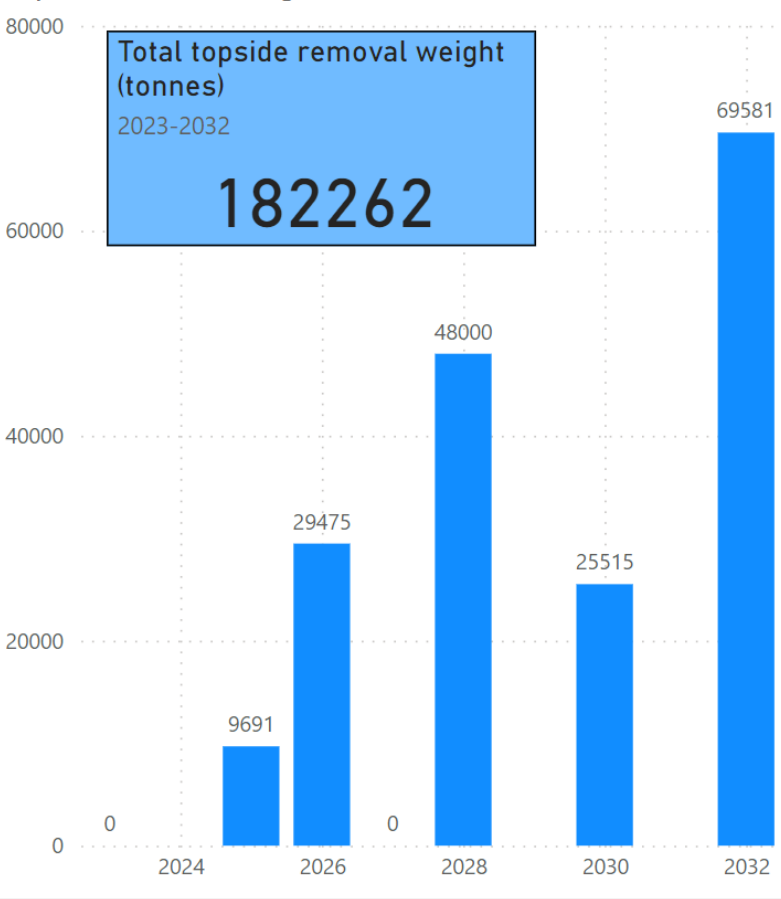


*There are 242 **platform wells** and 50 **subsea wells** planned against 234 **platform wells** and 29 **subsea wells** indicated last year.*

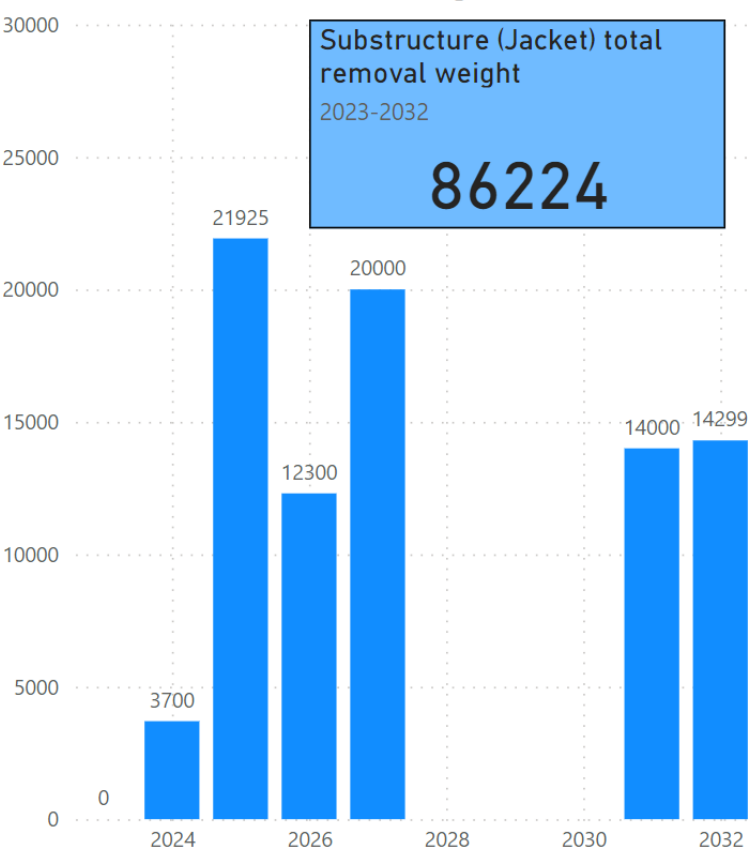
PLATFORM



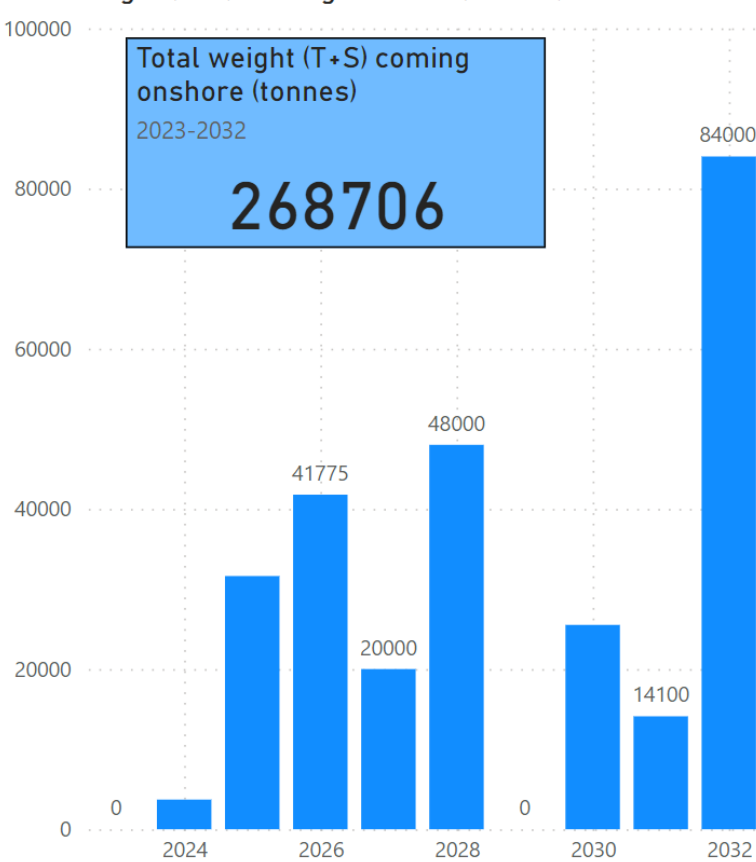
Topside removal weight (tonnes)



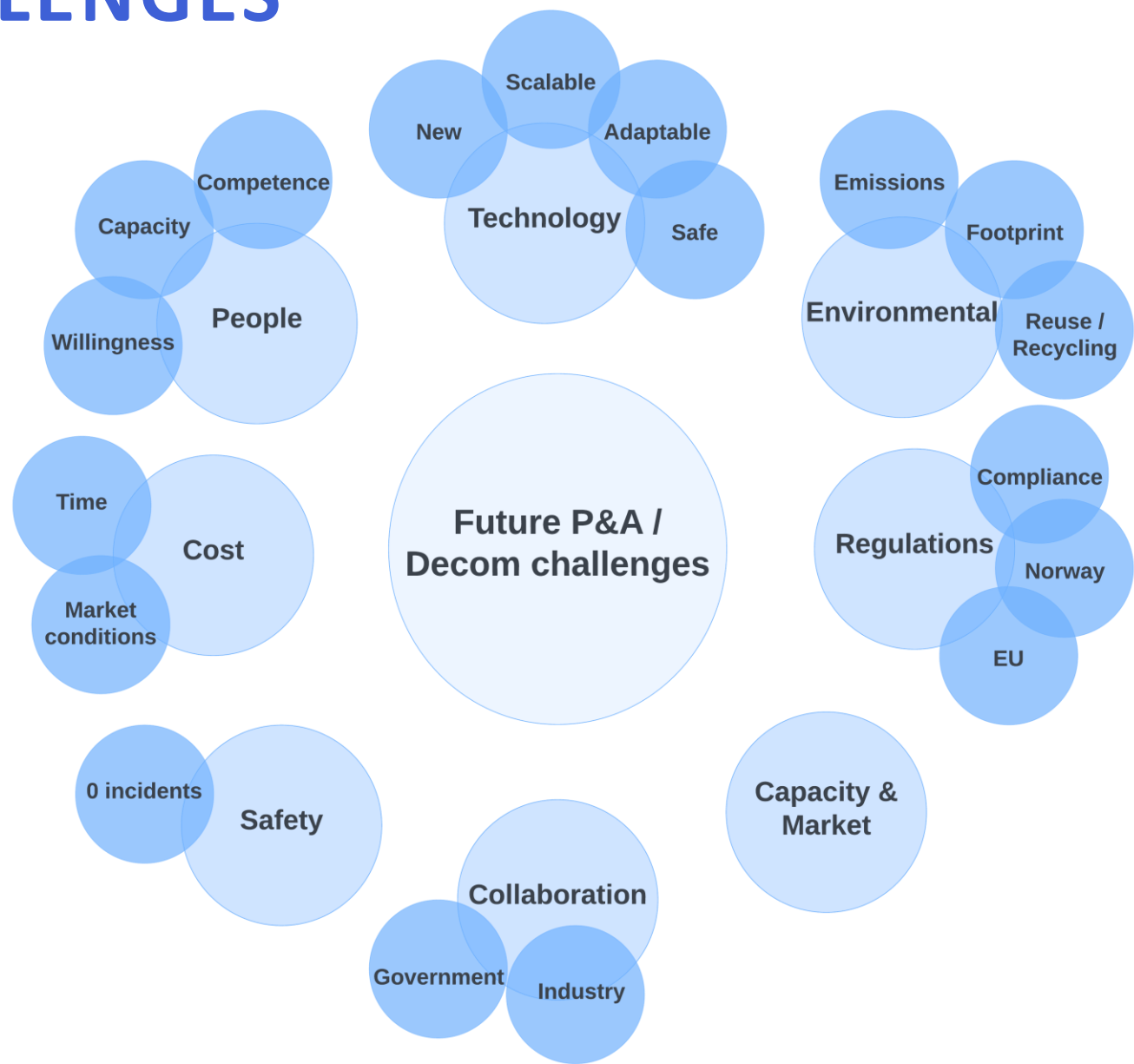
Substructure (Jacket) removal weight (tonnes)



Total weight (T+S) coming onshore (tonnes)



FUTURE CHALLENGES



CONTACT INFO



We are open for questions → Feel free to contact us

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