

Outlook in Norway - NCS Decommissioning the next 10 years

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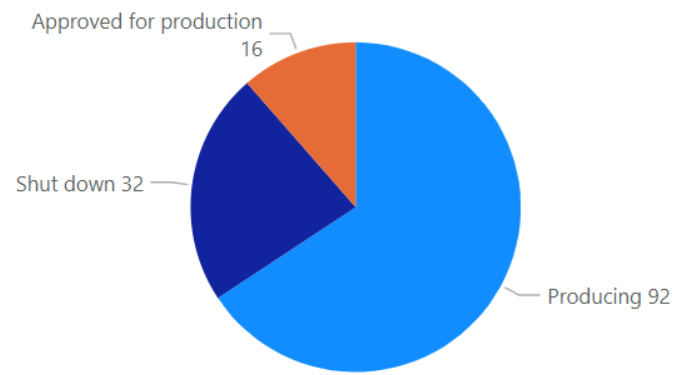
Michael Bishop – Senior Decommissioning Adviser, Okea

NPF Decommissioning conference 2024

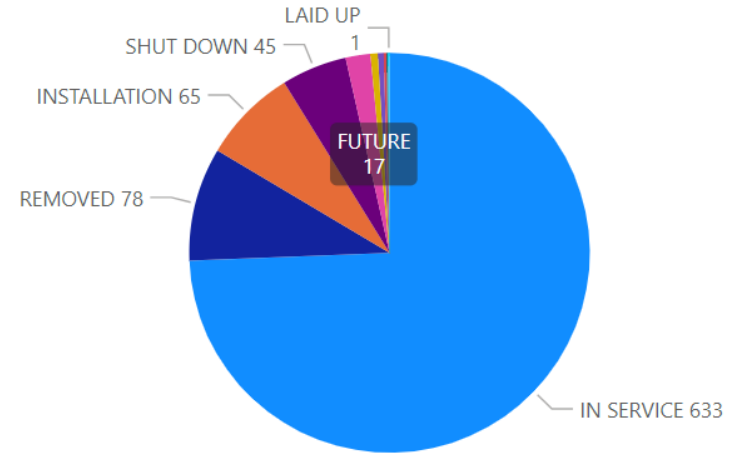
CURRENT STATUS NCS



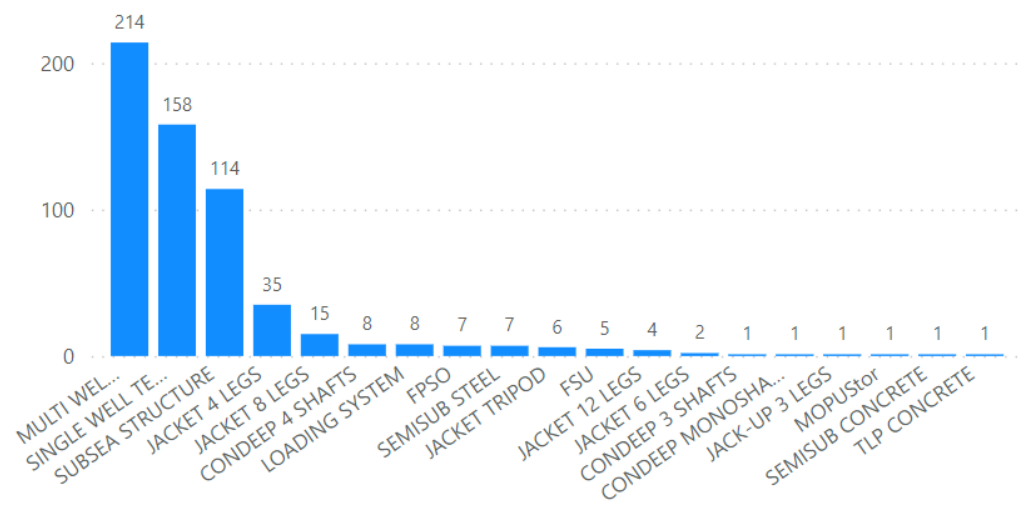
Field status NCS



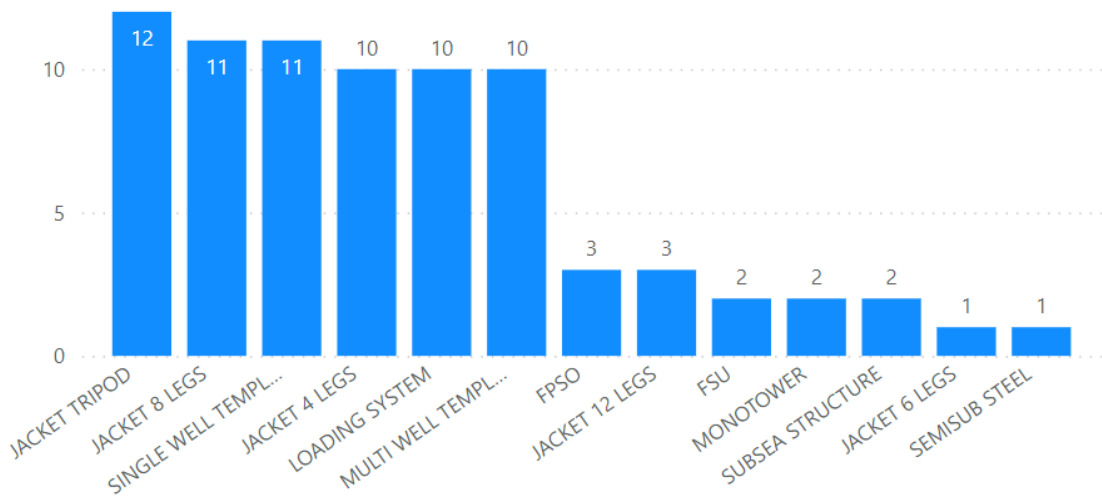
Fixed larger installations status NCS (including land facilities)



Type of offshore facilities currently in service



Fixed facility type with status "Removed"



Source: Sodir fact pages

DECOMMISSIONING SPECIALIST NETWORK



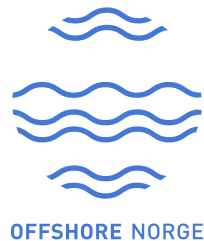
The Network consists of 15 member organisations:



Main tasks

- Exchange experience and best practices
- Give input to hearings to new relevant regulations and amendments to existing regulations
- Contribute to a proactive dialogue with the authorities
- Cooperation with relevant international industry fora and seminars such as IOGP decommissioning forum, OEUK, Offshore Denmark and NexStep
- Provide the necessary data to be able to better analyse the future decommissioning market

ROADMAP AND FOCUS AREAS IN 2024



2023

2024

2025

Cooperation, synergies and standardization

1. Increase collaboration with authorities

1. Prepare and maintain roadmap

1. Establish decom best practices

1. Digitalisation of data collection

2. Improve overview of decom activities next 10 years

2. Standard reporting for ARO format

1. Improve cooperation agreements

Regulations

1. Maintain overview of regulations update, especially OSPAR

1. Complete sustainability study with UIB

3. Clarify regulations regarding clean up offshore and onshore

3. Clarify applicable petroleum or maritime regulations during removal

1. Common regulations offshore wind and decom

HSE

1. Identify ways to reduce emissions – during offshore execution work

Technology

1. Support technology developments to provide smart and more cost-effective solutions

Sustainability

1. Increase use of Virtual Inventory and Loop

Market

1. Improve collaboration with suppliers

1. Increase/maintain decommissioning competence

DATA COLLECTION – VALUE AND BACKGROUND



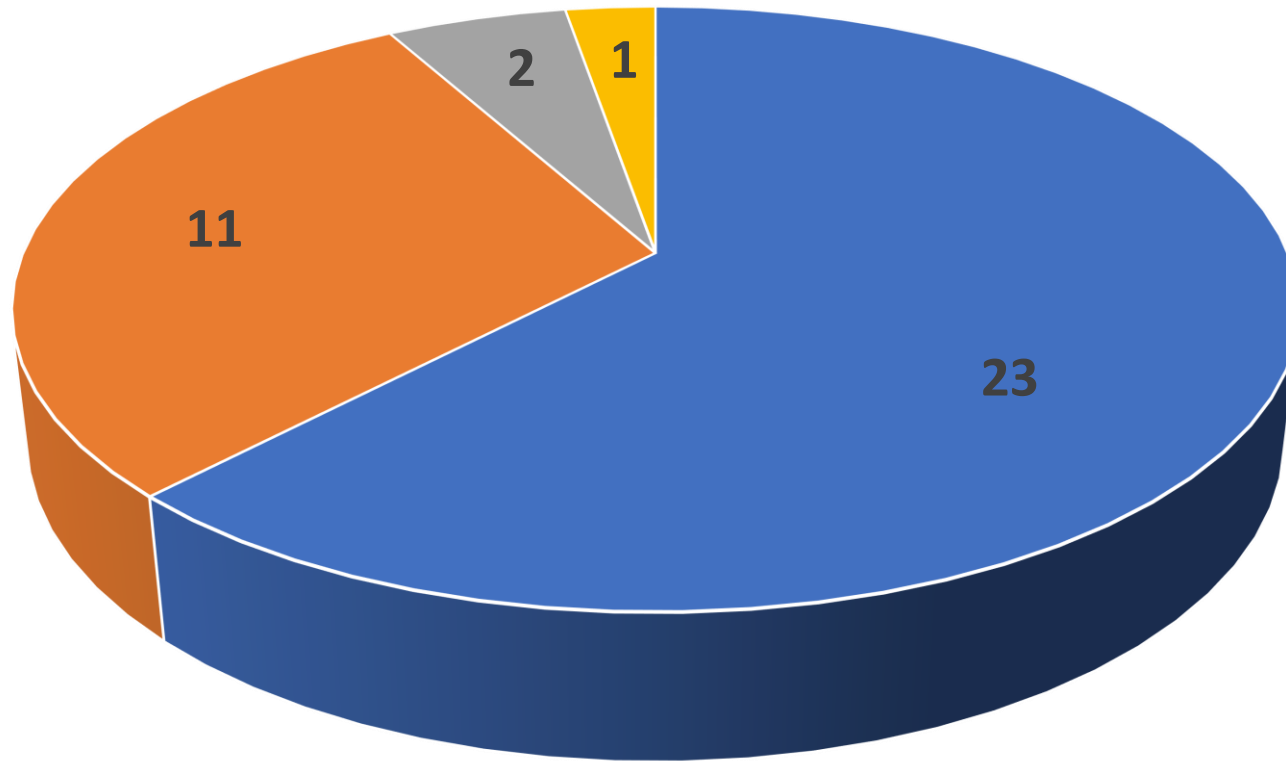
VALUE

- 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 was sent to Offshore Energies UK for inclusion into Insight Report 2023
- Little cost information received
- **Going Forward**
- Continue collecting the data
- Digitalisation of data collection

ASSET TYPE & LOCATION



■ Fixed steel platform ■ Subsea tieback ■ FPSO/FSO ■ GBS

➤ 30 Fields in the North Sea

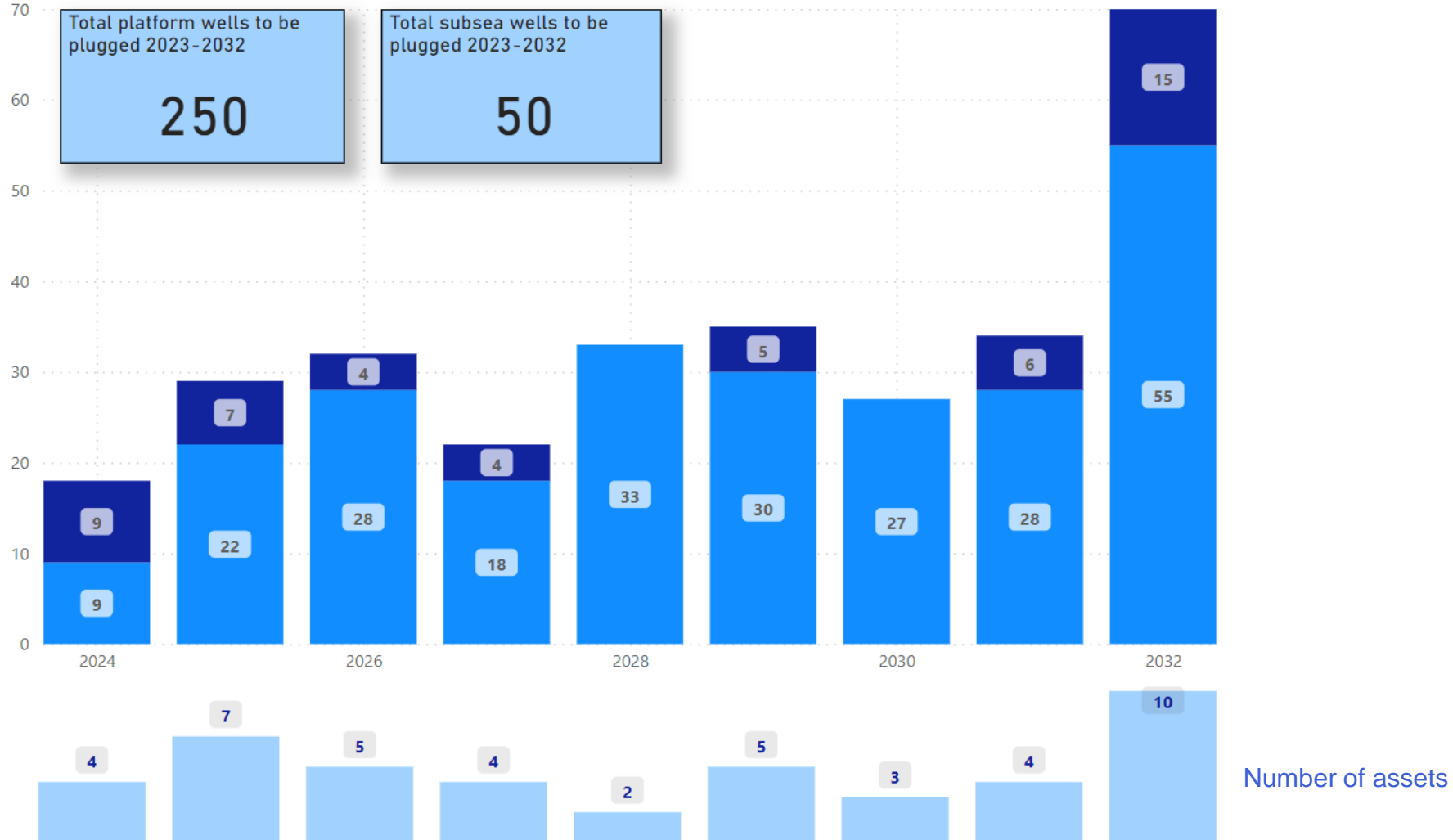
➤ 1 Field in the Norwegian Sea

WELLS DECOMMISSIONING



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

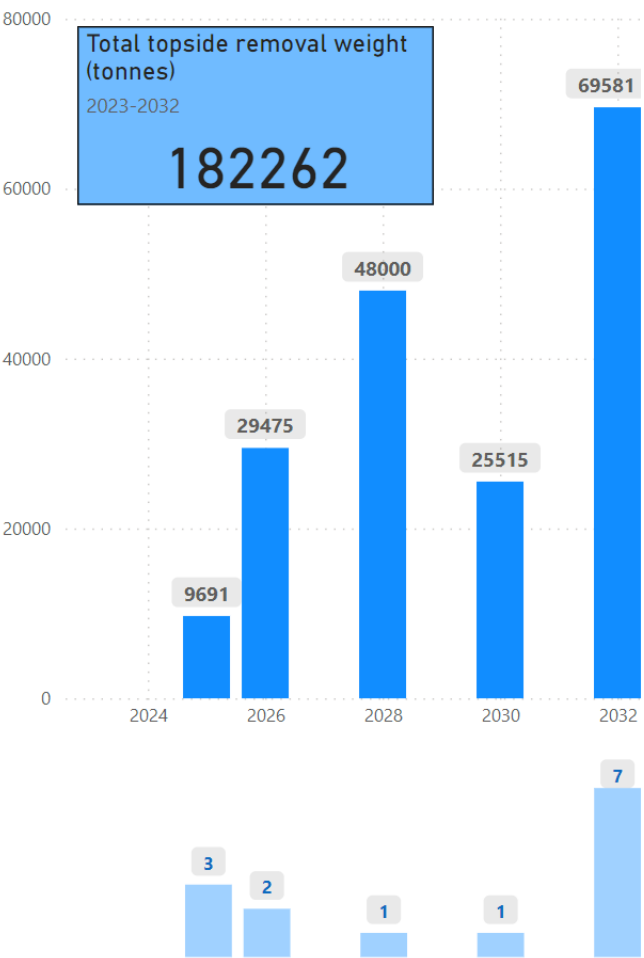
● Platform wells ● Subsea wells ● Suspended Subsea E&A Wells



*There are 250 **platform wells** and 50 **subsea wells** planned against 234 **platform wells** and 29 **subsea wells** indicated last year.*

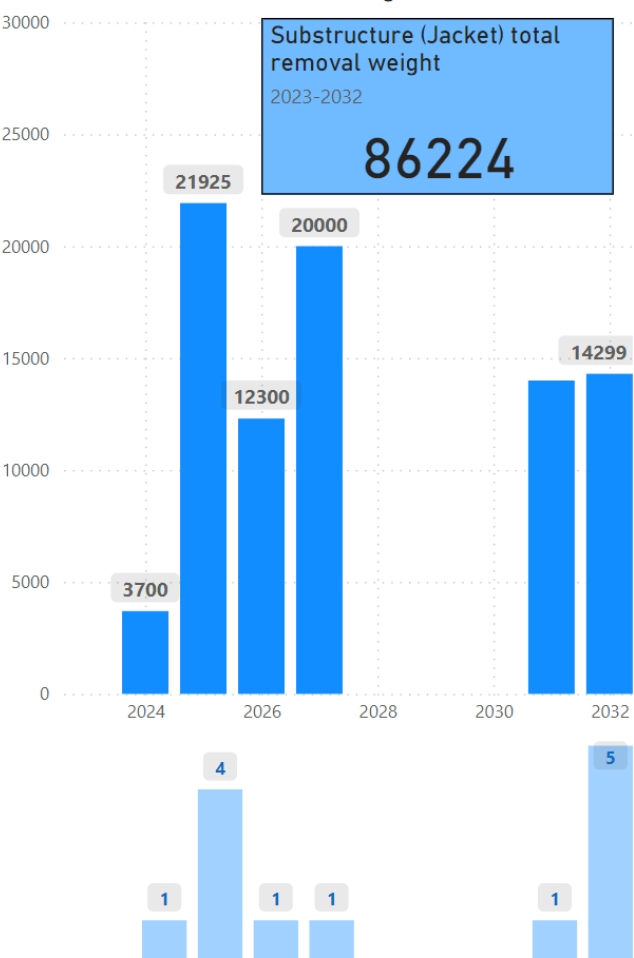
PLATFORM

Topside removal weight (tonnes)



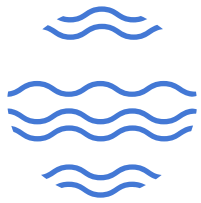
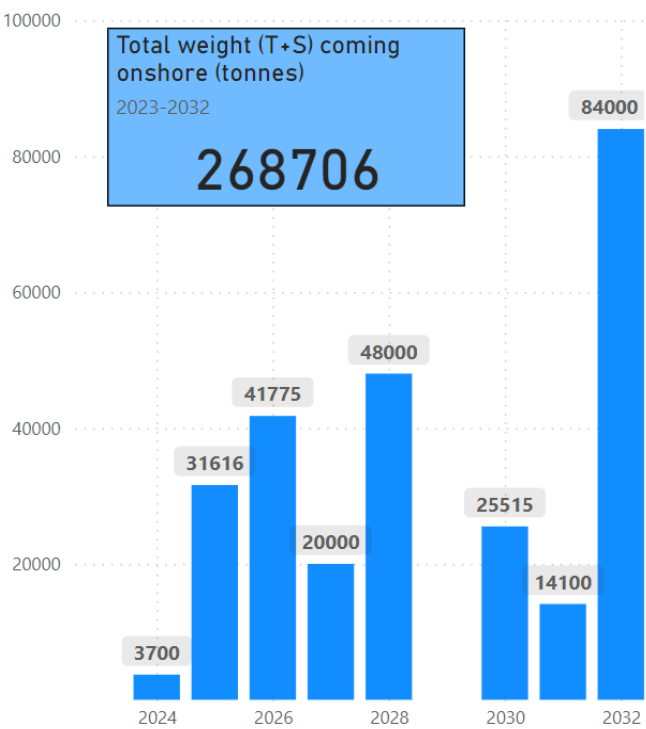
Number of assets

Substructure (Jacket) removal weight (tonnes)



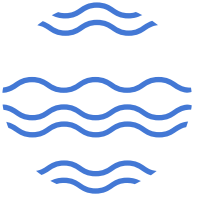
Number of assets

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



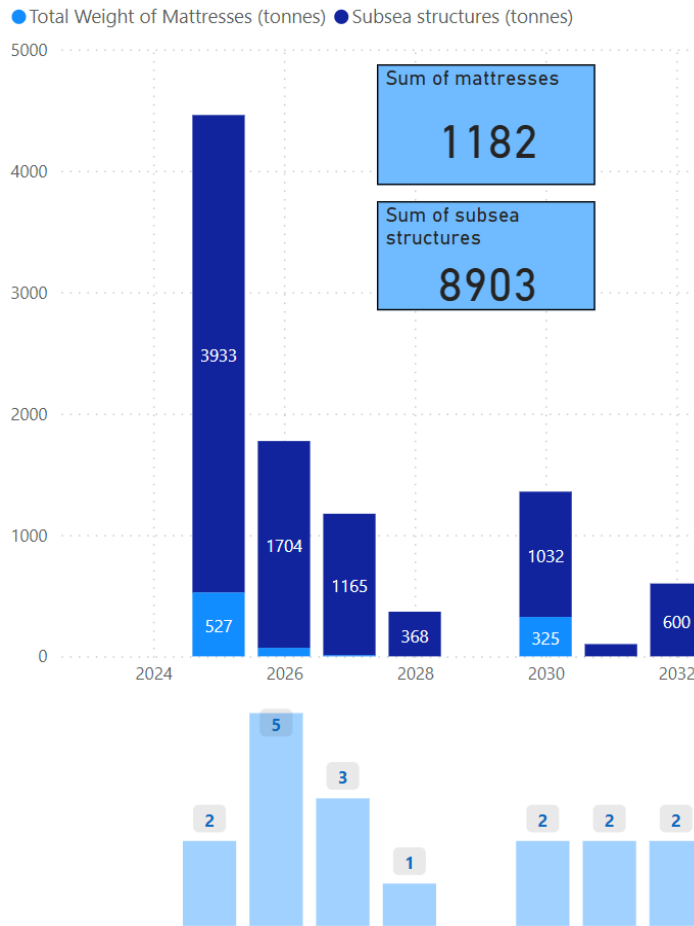
OFFSHORE NORGE

SUBSEA/PIPELINES/UMBILICAL'S



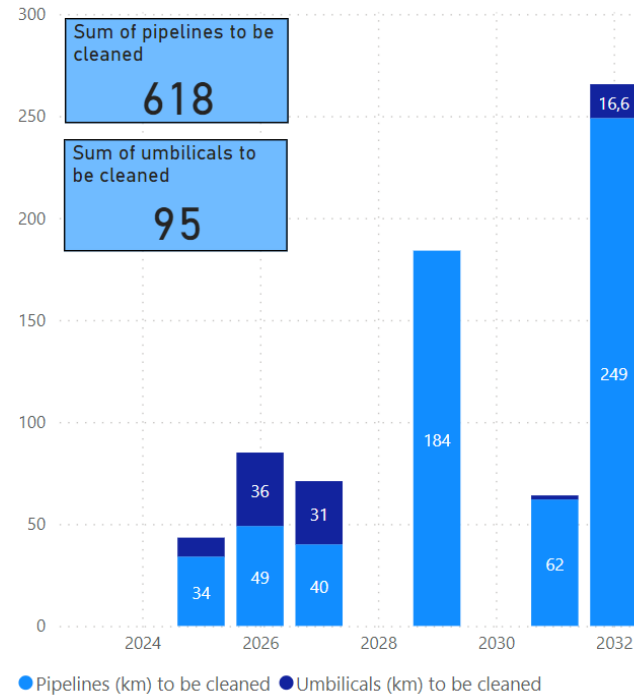
OFFSHORE NORGE

Subsea structure and mattresses removal weight



An increase of ca 1500 t from last year

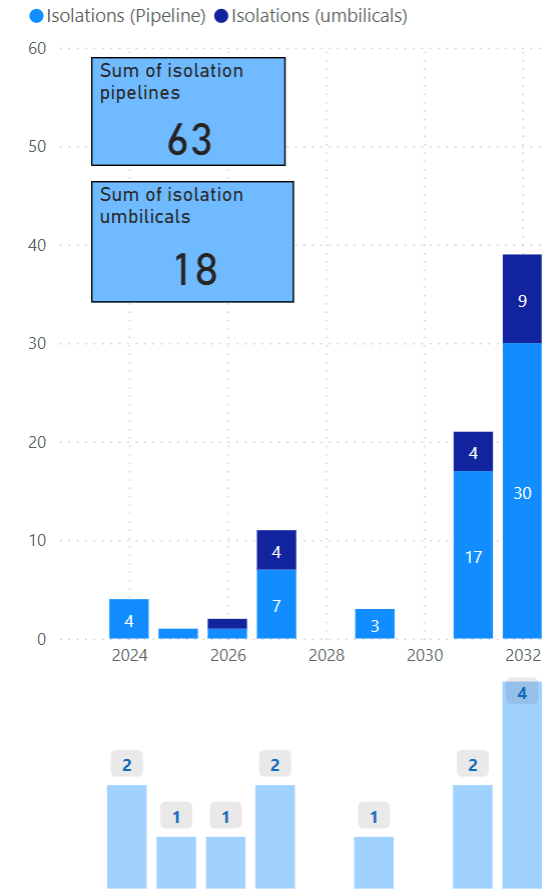
Pipelines and umbilicals to be cleaned



An increase of ca 200 km for pipelines & 60 km for umbilical's

Data excludes truck pipelines

Number of isolation pipelines and umbilicals

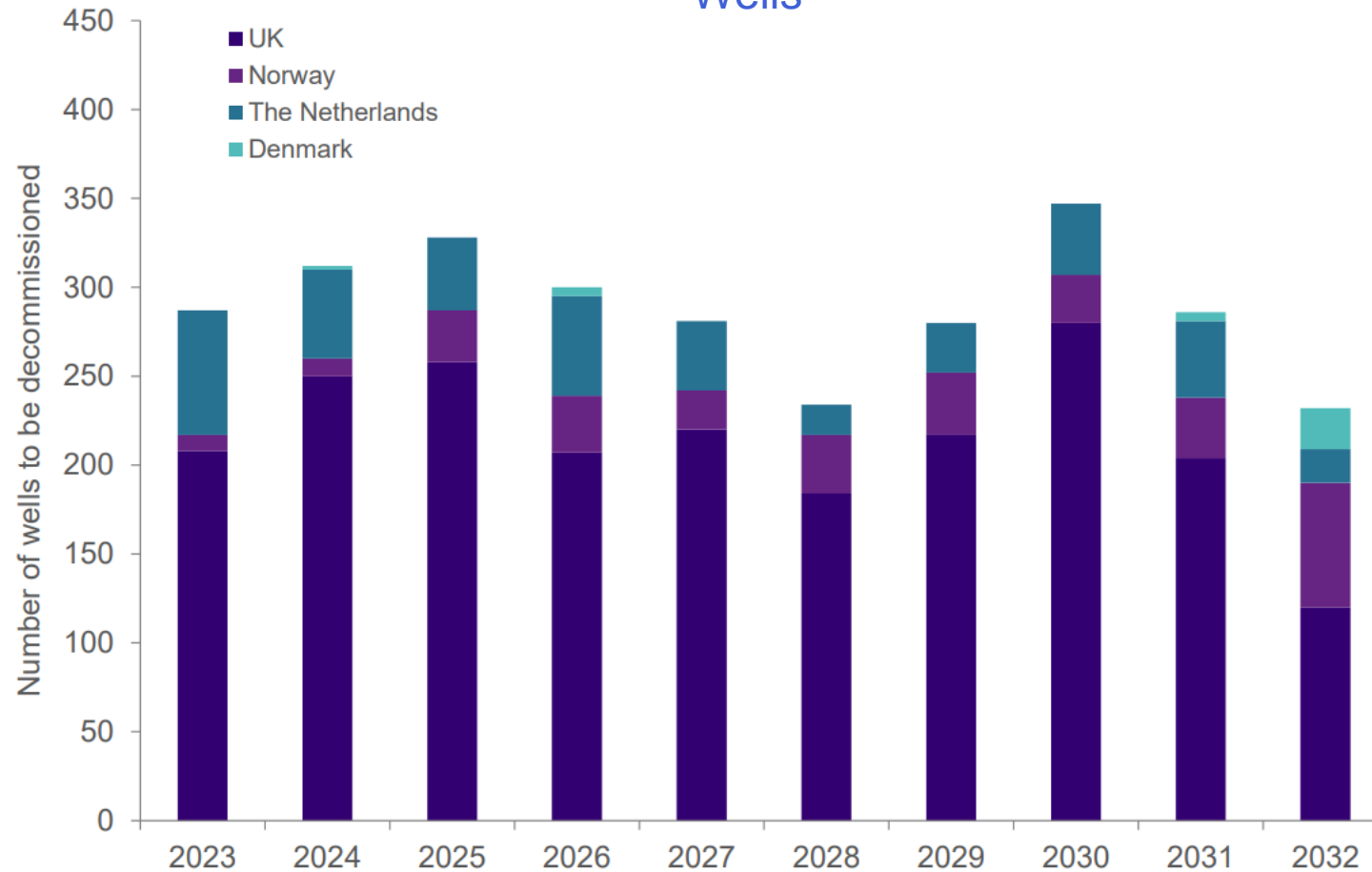


A doubling in total from last year.

NEXT 10 YEARS OVERVIEW NORTH SEA



Wells

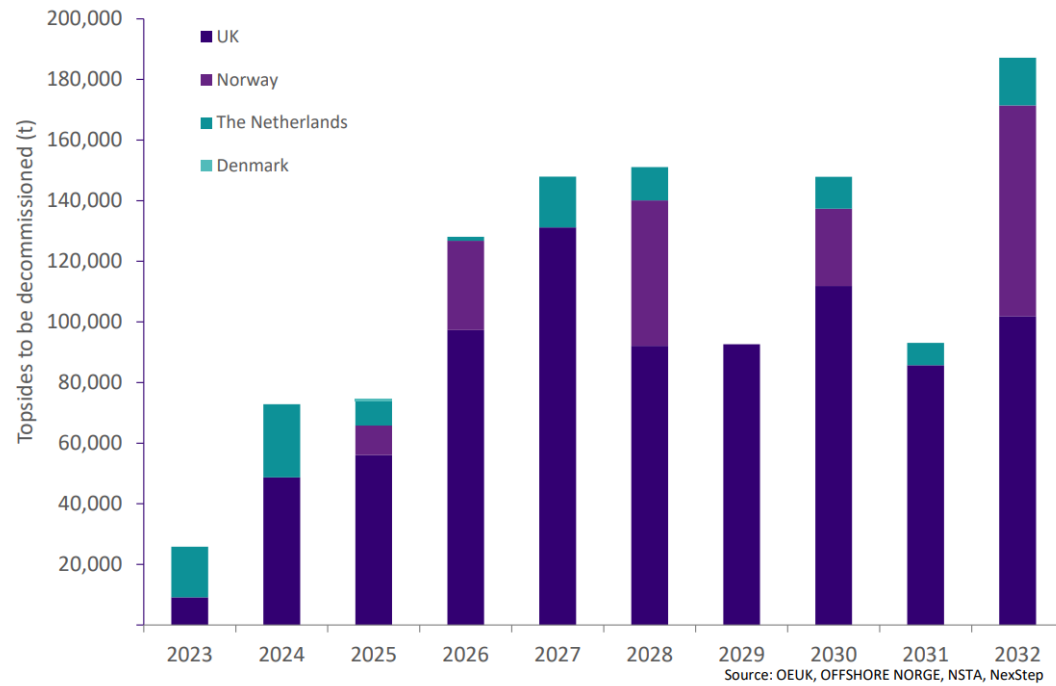


Source: OEUK, OFFSHORE NORGE, NSTA, NexStep

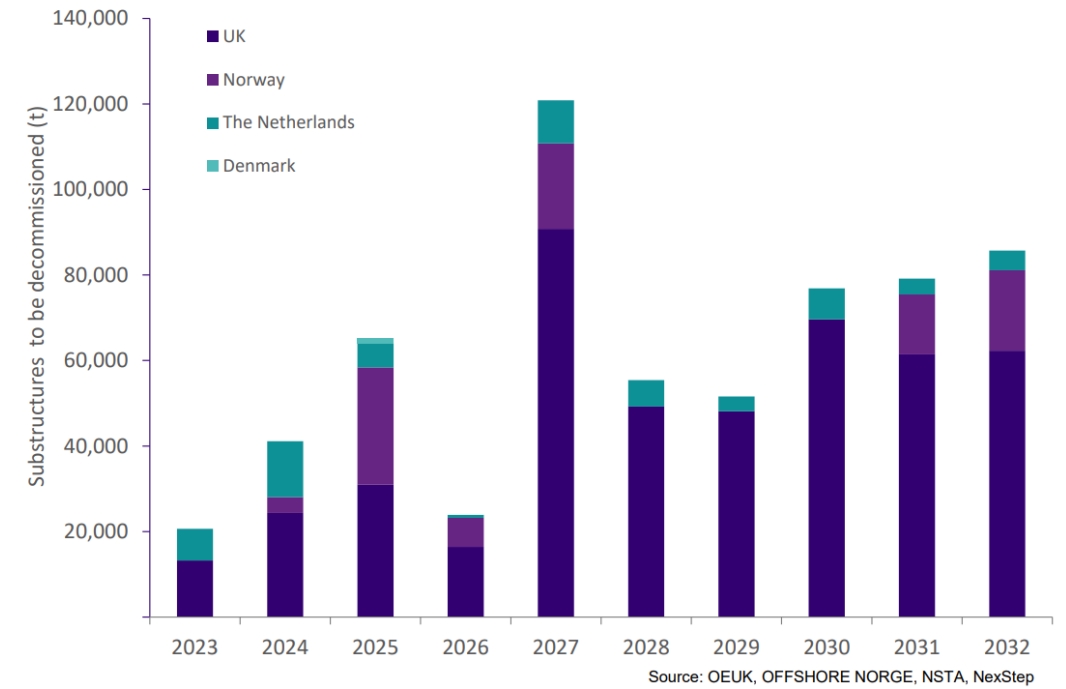
NEXT 10 YEARS OVERVIEW NORTH SEA



Topsides



Substructures



SUSTAINABILITY STUDY



- Collaboration with **the University in Bergen**
- Comparative assessment - **decommissioning regulations and circular economy**
- Overview and comparison of regulations for **Norway, UK, Netherlands**
- Aim is to **improve on circular economy**
- Commenced Q4 2023 and due for **completion late Q3 2024**

JOINT SEMINAR WITH SUPPLIERS

- Seminar was held 14th November 2023 in Stavanger and 18 tier 1 suppliers attended
- Main categories summarised from the seminar are as follows:

Contract	Communication	Assets	Cooperation
Cost	Engagement	Engineering phase	ESG
Risk	Predictability	Technology Development	Interface
Market	Competence	Lessons Learnt	Regulations

- New seminar is planned Q4 2024



CONTACT INFO



We are open for any suggestions → Feel free to contact us

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