



**Havtil**

Norwegian Ocean  
Industry Authority

**PAF Seminar 24th of October 2024**

**«Plugging and abandonment - A common joint effort»**

**HAVTIL Drilling & Well Technology**

**Nina Ringøen**



 **Havtil** Norwegian Ocean  
Industry Authority

# Norwegian Ocean Industry Authority

Regulatory responsibility  
for

- safety,
- working environment,
- emergency preparedness  
and
- security

in Norway's ocean industry

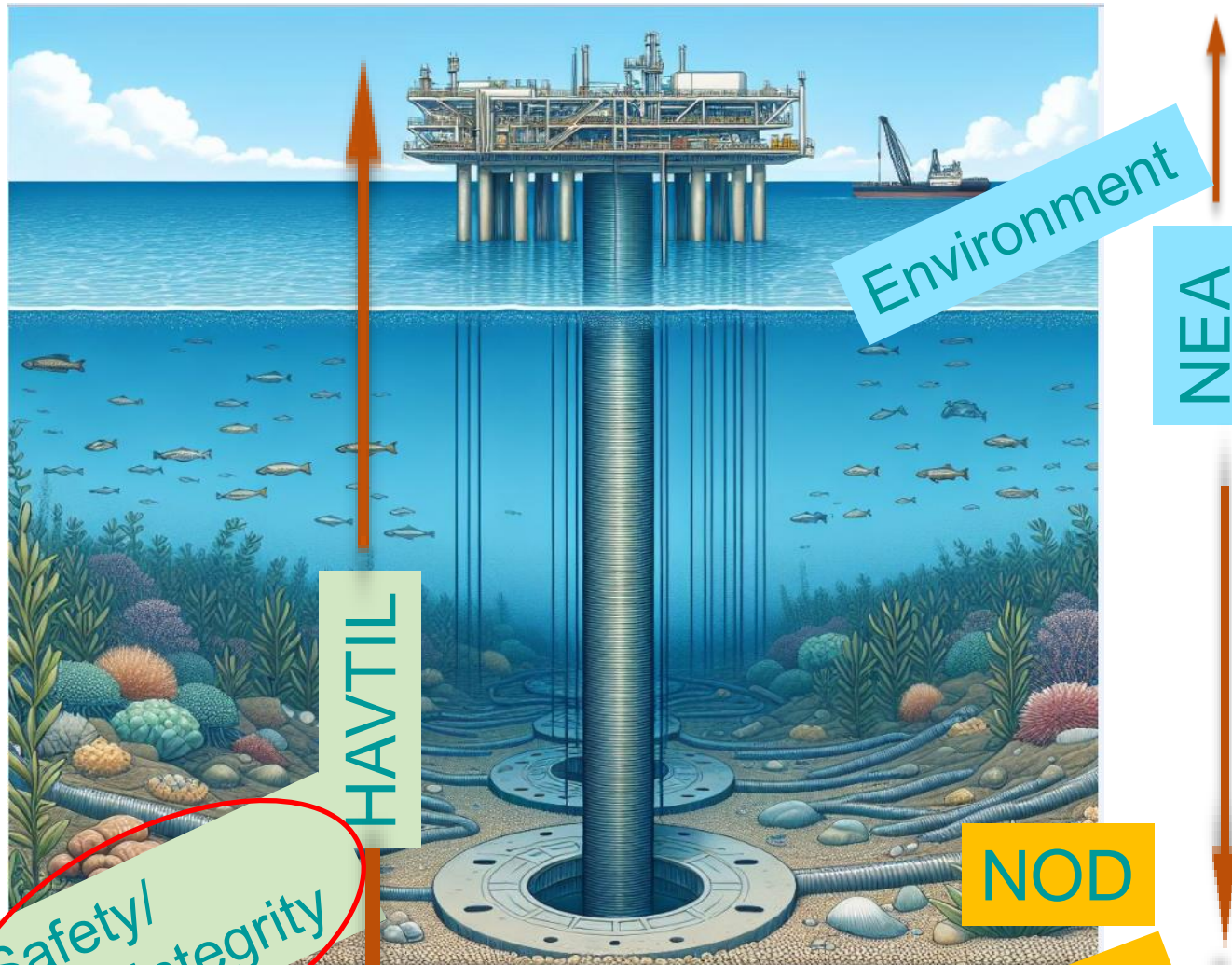
Subordinate to the Ministry  
of Energy (ED)

# The Norwegian model today

- Openness and trust
- Delegation of Authority
- Functional Regulatory requirements
- Tripartite cooperation

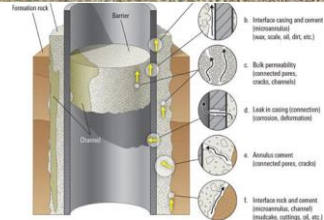


# P&A - A common joint effort



## HAVTIL's AREA OF RESPONSIBILITY:

- REGULATORY COMPLIANCE & WELL INTEGRITY IN P&A
  - NO LEAKS TO SEA/ SEABED / OVERBURDEN
  - PREVENT MAJOR ACCIDENTS**
- GUIDANCE TO INDUSTRY WITH RESPECT TO QUALIFICATION OF NEW TECHNOLOGY / NEW SOLUTIONS
  - (Facility regulation section 9).

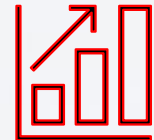


# Are we ready ?

- More well control response for pressure control jobs globally, especially in conjunction with P&A operations.



- Relief well Drilling/Intervention well projects are increasing for non-emergency work due to lack of qualified well barriers. (P&A).



More than 2000 wells expected to be Permanent plugged towards 2050 – 2070.....

# Activity Regulations § 88 Plugging of wells



All wells shall be secured before they are abandoned so that well integrity is safeguarded during the time they are abandoned.



For subsea-completed wells, well integrity shall be monitored if the plan is to abandon the wells for more than twelve months.



Exploration wells commenced after 1.1.2014 shall not be temporarily abandoned beyond two years.



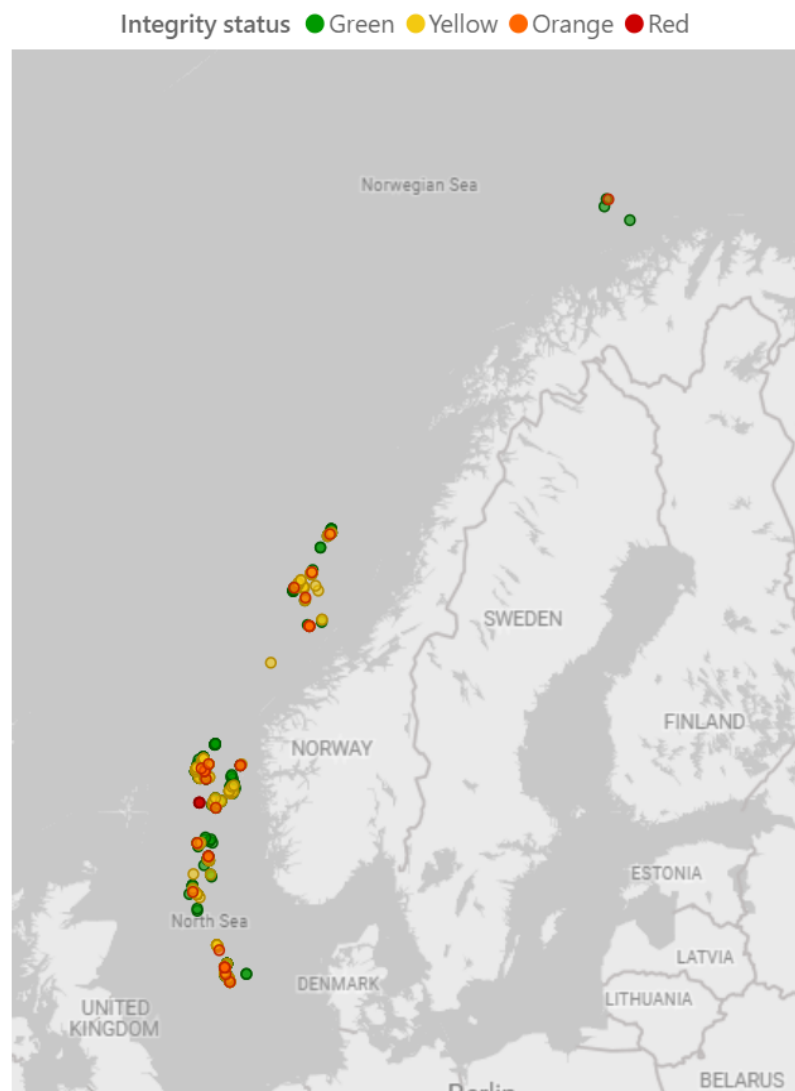
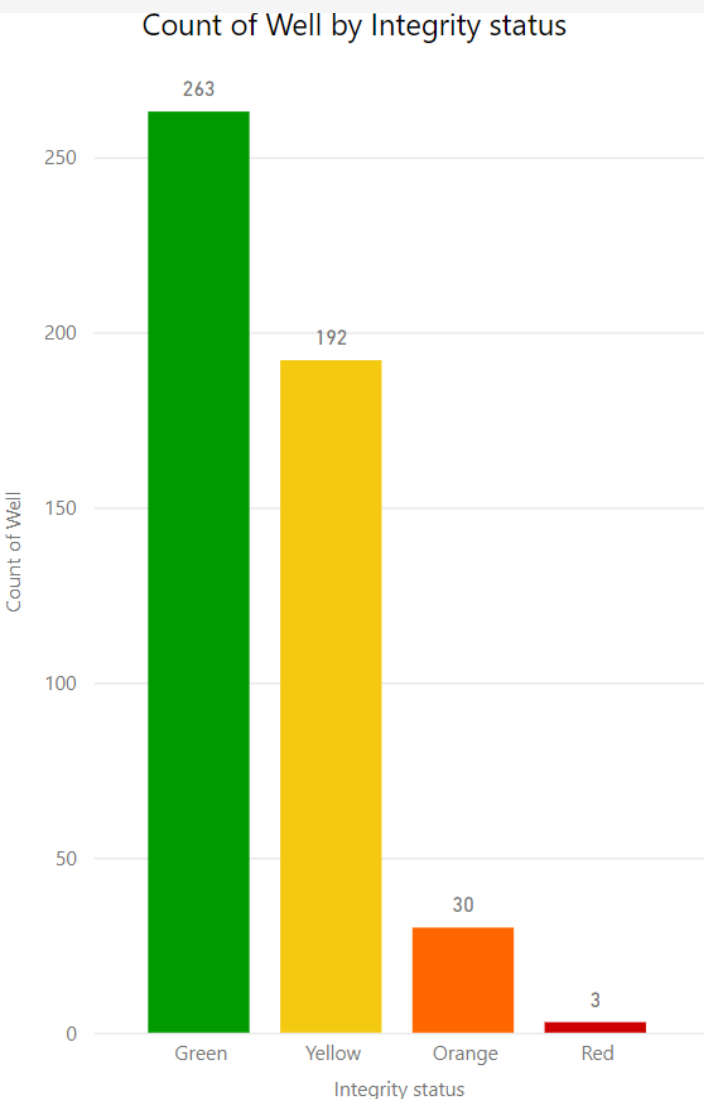
In production wells abandoned after 1.1.2014, hydrocarbon-bearing zones shall be plugged and abandoned permanently within three years if the well is not continuously monitored.



It shall be possible to check well integrity in the event of reconnection on temporarily abandoned wells.

# Norwegian Continental Shelf 2024

About 488 of 2245 wells on NCS are temporary abandoned



## Well Inventory 2024:

- +/- 2245 wells

- Updated 1 January 2024

- 488 temporary plugged & abandoned wells (22%)

- Updated 15<sup>th</sup> of March 2024

Permanent plugged wells:

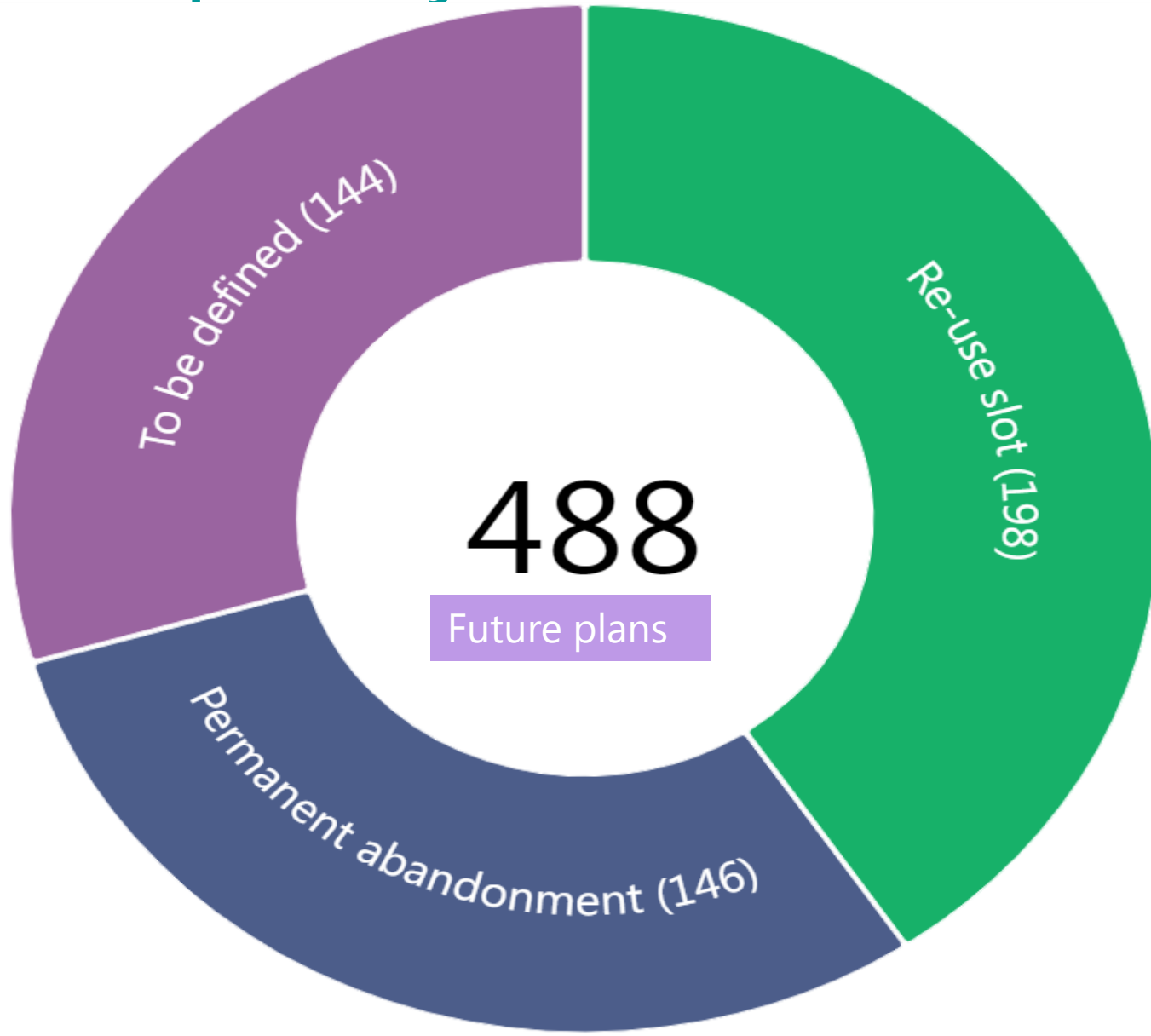
+/- 1800\* permanent plugged exploration and development wells

\* Updated October 2024, NOD

# Temporary abandoned wells 2024

The public report will be published on our web site within the next month:

[www.havtil.no](http://www.havtil.no)



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Havtil / Norwegian Ocean Industry Authority  
Temporary Plugged and Abandoned Wells on the  
Norwegian Continental Shelf 2024  
Report Public



# EU Regulation on Methane Emissions

- Inventory list for all wells listed below to be prepared by **5th August 2025**

- Quantification of methane leaks (emission) **by 31st of May 2026 thereafter yearly for inactive and temporary abandoned wells**

➤ **«Inactive well»** means an oil or gas well or well site, onshore or offshore, where operations for exploration or production have ceased for at least one year.

➤ **Temporary plugged and abandoned wells**

➤ **Permanent plugged and abandoned wells**

- Will no be re-entered again.

For Norway EEA relevance need to be decided by Ministry of Energy after hearing: **26th of November 2024**



**EU Objective: Reduce methane emissions from fossil energy produced or consumed in the union**

# Collaboration with other authorities and industry partners is key



NORWEGIAN OFFSHORE  
DIRECTORATE



Norwegian  
Environment  
Agency



Energistyrelsen



North Sea  
Transition  
Authority



Net Zero  
Technology  
Centre

NORCE



OFFSHORE NORGE

swipa

Subsurface Well Integrity  
Plugging and Abandonment

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# Thank you!

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