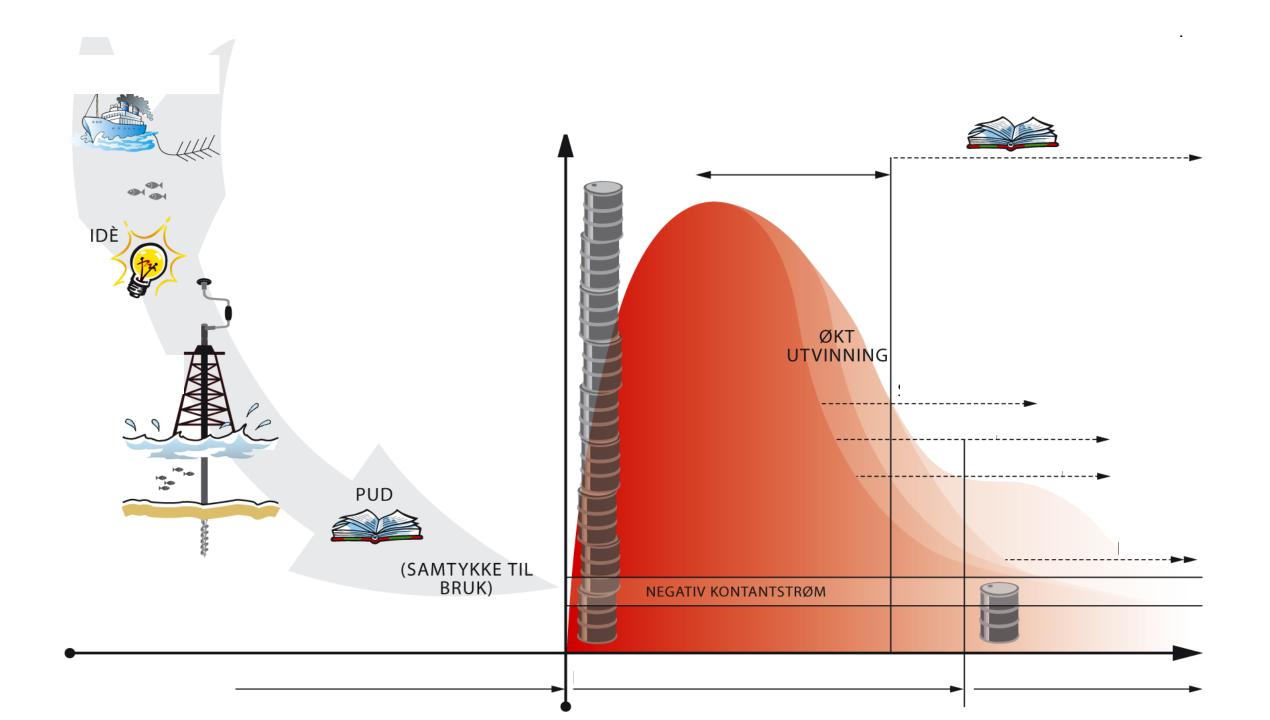
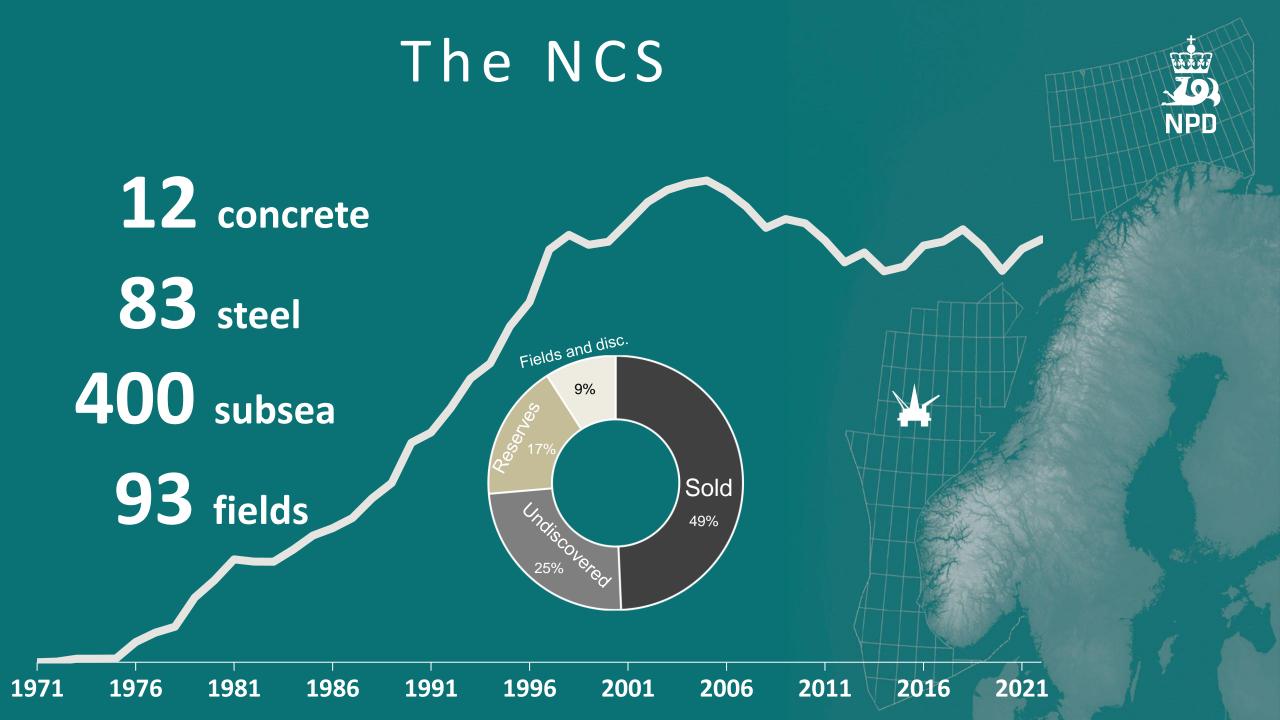


Decommissioning

The Norwegian Petroleum Directorate





The Rules



National laws and regulations

- The petroleum law
- The petroleum regulation
- HSE- regulations
- Environmental protection act

International agreements

- UNCLOS (United Nations Convention on Law of the Sea)
- OSPAR (Oslo/Paris Convention)
- IMO (International Maritime Organisation)



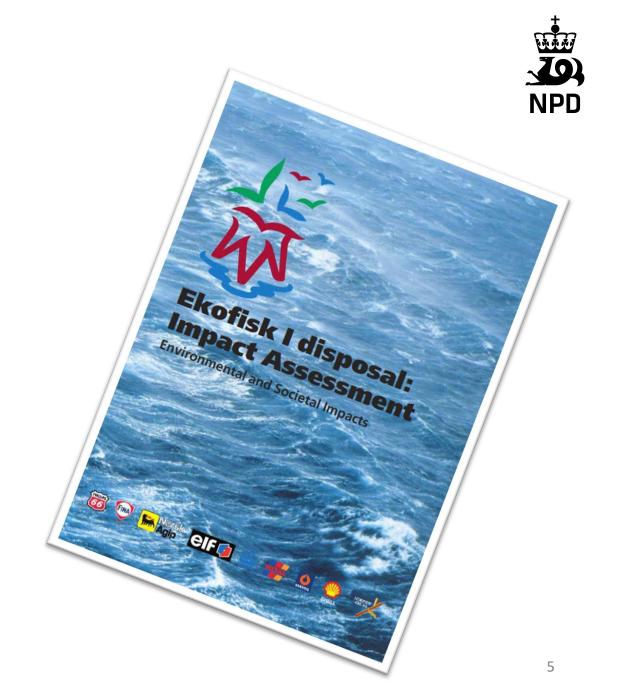
Decommissioning Plan

Disposal plan

- Technical issues
- Financial aspects
- Alternatives

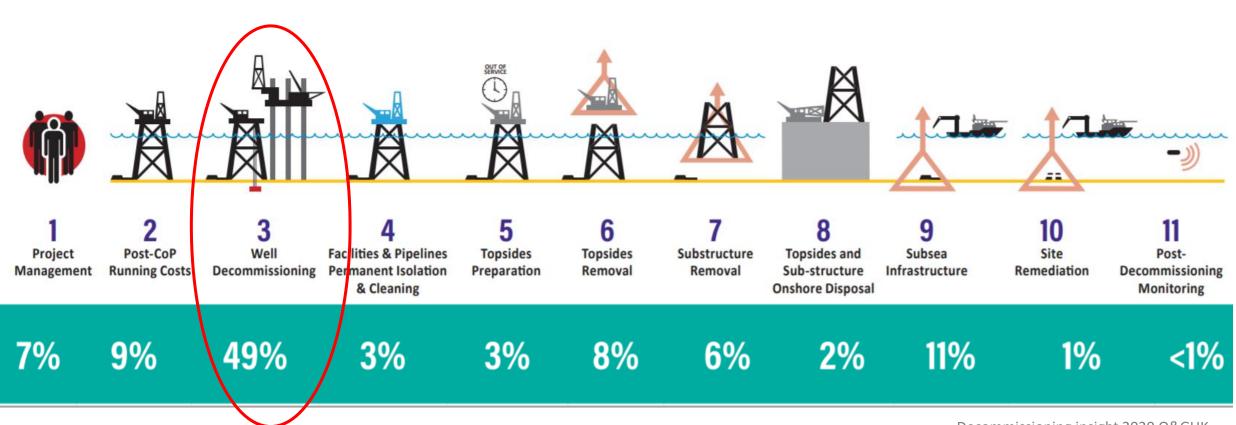
Impact assessment

- Expected consequenses
- Public consultation



The Cost Structure



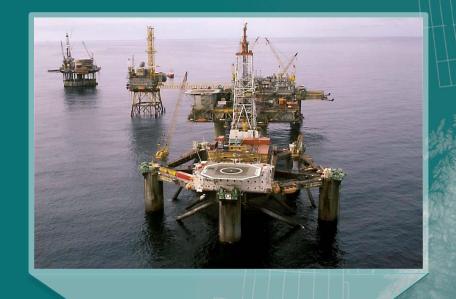


Decommissioning insight 2020 O&GUK

Frigg Decommissioning







1977 1980 1983 1986 1989 1992 1995 1998 2001 2004

Frigg Decommissioning







1977 1980 1983 1986 1989 1992 1995 1998 2001 2004

Frigg Decommissioning







1977 1980 1983 1986 1989 1992 1995 1998 2001 2004

Important Considerations



- When is optimal CoP?
- When to start planning the decommissioning?
- Which regulations, laws and international conventions apply?
- Who monitors the decommissioning stage?
- Cooperation between governmental institutions.



Photo: Ellen Marie Hagevik, Medvind24

Checklist



- Legal requirements
- Technical feasibility
- Health, Safety and Environment
- Cost and economics
- Resource management
- Timing of decommissioning
- Reuse of installation
- Environment and other users of the sea
- Politics, public concern and reputation



Plan the Ending at the Beginning



- Start planning the decommissioning at the development stage
- Decommissioning part of the PDO
- Detailed planning between 5 and 2 years before shutdown
- Close dialogue with the IOCs
- Secure the financing

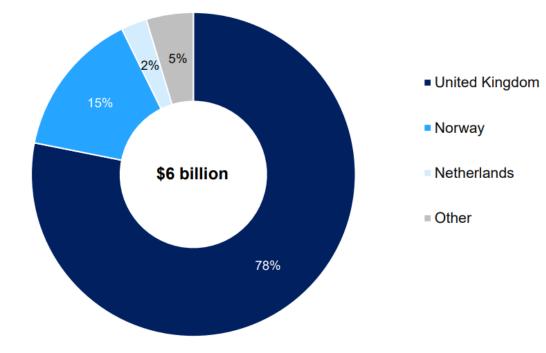


Security Against Default



2020-2021 offshore decommissioning commitments in Europe by country Percent

- State
 - Ensure funding for proper decommissioning
- Being shielded from default
 - In case of sale to a third party



Source: Rystad Energy ServiceCube

Svein Arne Svilosen
Norwegian Petroleum Directorate (NPD)

Security Mechanisms



- Parent guarantee
- Third party guarantee
- Insurance
- Decommissioning trust fund



Decommissioning Fund

- Decommissioning fund
 - When to start the fund?
 - Who manages the fund?
 - What kind of risk profile?
 - What if the fund is not big enough?
 - Fiscal regime?





United Nations Environment Programme



UNEP(DEPI)/MED WG.384/INF.4 6 June 2013

Original: ENGLISH ON



MEDITERRANEAN ACTION PLAN

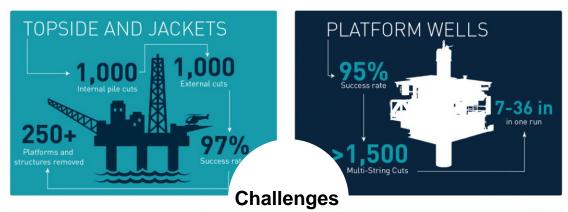
1st Offshore Protocol Working Group Meeting

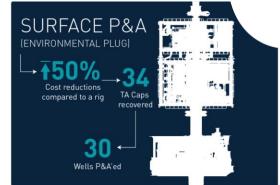
Valletta, Malta, 13-14 June 2013

Challenges



- Who is responsible for decommissioning?
- How is decommissioning financed?
- What is the government's responsibility?
- What if companies do not fulfill their obligations?
- What if a well starts leaking 50 years after decommissioning?
- What does your legal framework/contracts say about decommissioning?
- How does a decommissioning fund affect incentives in your fiscal system?









npd.no factpages.npd.no/no norskpetroleum.no

