

The impact of investigations

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Petroleum Safety Authority Norway

- Government supervisory agency subordinate to the Ministry of Labour and Social Inclusion (AID)
- Regulatory authority for safety, the working environment, emergency preparedness and security
- Our areas of responsibility
 - petroleum operations offshore and at land plants
 - renewable energy production offshore (offshore wind power)
 - CO₂ transport and storage
 - mineral recovery from the seabed
- About 180 employees

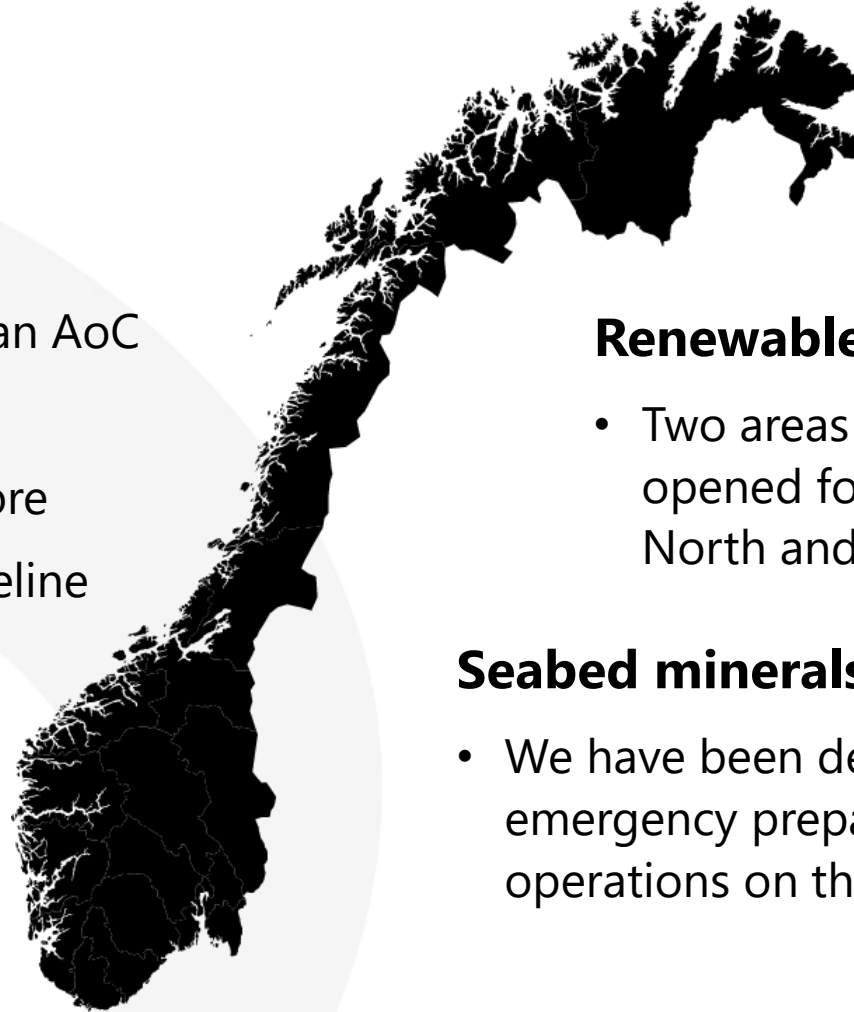


Our area of responsibility

Petroleum operations

- 93 fields on stream
- 62 fixed facilities
- 45 mobile facilities with an AoC
- 351 subsea facilities
- 25 000 employees offshore
- 17 750 kilometres of pipeline

Updated 1 January 2023



CO2 transport and injection

- Value chain for transport and injection under construction (Northern Lights). Part of Longship, the government's demonstration project for full-scale CO₂ management

Renewable energy production offshore

- Two areas of the Norwegian continental shelf opened for offshore wind development: Utsira North and Southern North Sea II.

Seabed minerals

- We have been delegated responsibility for safety and emergency preparedness in future mineral recovery operations on the Norwegian continental shelf.



Investigations of serious incidents

What do the PSA do?

- Conduct our own independent investigation
 - Often in parallel with inquiries pursued by the police
- Or instead: Base our evaluation on the company's own investigation

The aim of the investigation

- Identify the causes of the incident
- Identify areas where regulations are not met

Following up incidents represents an important part of our supervision.



Learning from investigations

Experience from investigations is used for such purposes as:

- Further follow-up of involved companies
- Prioritizing supervisory activities
- Informing/briefing the industry to ensure experience transfer
- Assessing the need for development of the regulations

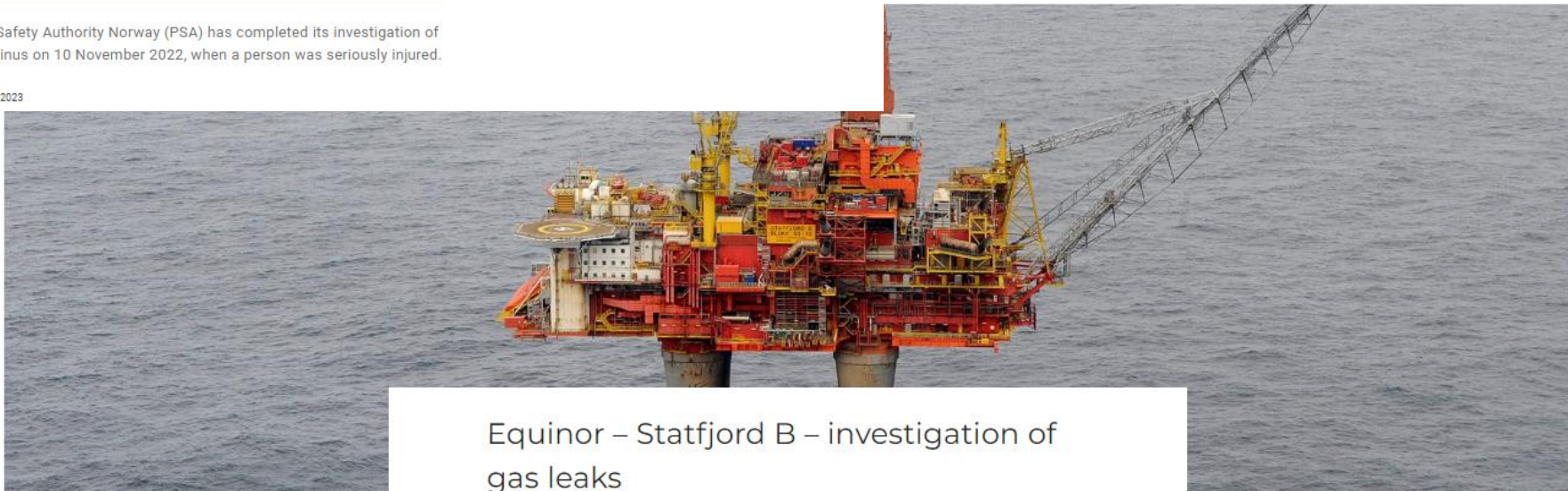




Odfjell – Linus – investigation of incident with personal injury during work on drag chain

The Petroleum Safety Authority Norway (PSA) has completed its investigation of an incident on Linus on 10 November 2022, when a person was seriously injured.

Published: 20 February 2023



Equinor – Statfjord B – investigation of gas leaks

The Petroleum Safety Authority Norway (PSA) has completed its investigation of gas leaks on the Statfjord B facility on 23 May 2022. The investigation has identified serious breaches of the regulations, and Equinor has now been given an order.

Published: 23 February 2023



Activities in an investigation

On the installation

- Safety brief
- Introductory meeting
- Inspection
- Interviews
- Document review
- Sum-up meeting

Further work

- Further interviews
- Further document reviews
- Technical studies – if needed
- Establish course of events
- Identify direct and underlying causes
- Identify non-conformities
 - Revision basis: Regulations
- Write report

The involved company or companies conduct their own (internal) investigation – with the same activities

If relevant: Co-operation with the police



PSA's investigation of serious incidents— Evaluation of impact

08 December 2022



2022: DNV GL

Evaluation of the impact of PSA investigations

The effect of the PSA's investigation must be seen in the context of the effect of internal investigations

PSA's investigation

- has essentially the same description of the incident and underlying cause as the internal investigation
- provides essentially the same findings as the internal investigation

Measures are mainly identified based on findings from the internal investigation

Measures from internal investigations have largely been initiated or implemented before the PSA's report has been published.



2022: DNV GL

Evaluation of the impact of PSA investigations

The PSA's investigation has an effect on the company's work on safety by:

- contributing on a general basis to more effective implementation of measures
- contributing to more impact for the implementation of measures to already known issues
- being objective and challenge the company's management to a greater extent
- contributing to more focus on compliance with procedures
- contributing to better knowledge and understanding of regulations and set expectations for how to comply with the regulation

It is perceived as important that the PSA conducts an independent investigation of serious incidents.



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