

Organisation of regulatory control and challenges of NORM issues in Denmark

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Legislative and Regulatory System

Law No. 94 of 31 March 1953 on use etc. of radioactive materials, Ministry of the Interior (now Ministry of Health).

Ministry of the Interior and Health order no. 192 of 2 April 2002 on exemptions from law on the use of radioactive substances.

Guideline



Status of deposit and/or long-term storage of NORM in Denmark

- The Parliamentary adoption of Motion B 48 on the decommissioning of the nuclear facilities at Risø National Laboratory, 2003.
- Basis for decision for a repository for Low and Intermediate Level Waste, 2008.
- It was decided to expand the process to include the possibility of a long term storage facility, 2012.
- Basis for decision for a long term storage facility for Low and Intermediate Level Waste, 2015.

But neither of the two “Basis for decision”s includes all Danish NORM waste

Quantities of stored NORM waste in 2015

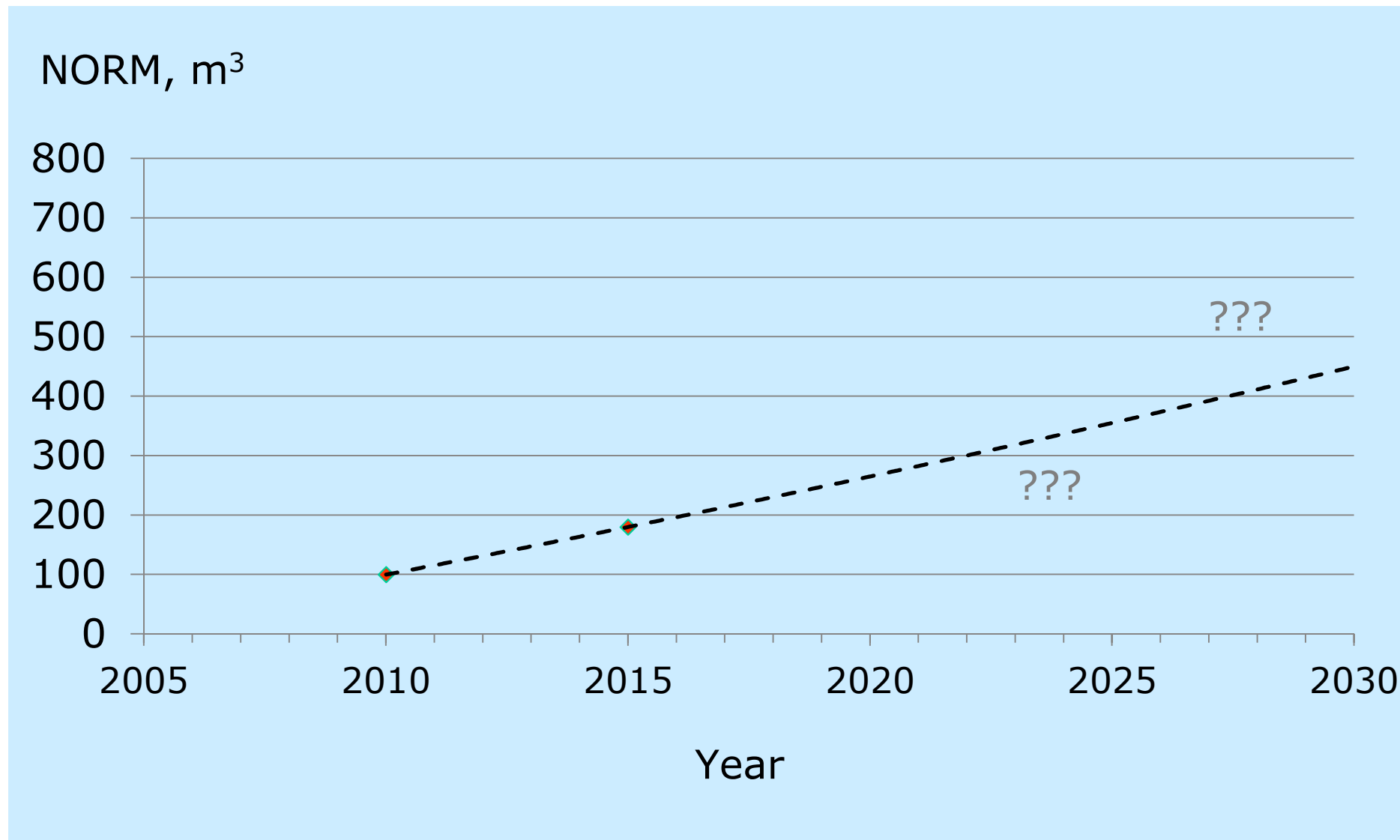
600 m³ uranium tailings

+

500 m³ contaminated concrete

200 m³ operational NORM waste
from the oil and gas operators
in the North Sea

Projections of quantities of operational oil and gas NORM-waste, based on reports from the oil and gas-operators



Storage of NORM in Denmark



NORM originating from oil and gas production in the North Sea is stored in a number of privately owned and operated facilities

Uranium tailings are stored by Danish Decommissioning at Risø in tailing pools.



Quantities of potential NORM waste in 2015

- ~2000 m³ uranium ore from Greenland

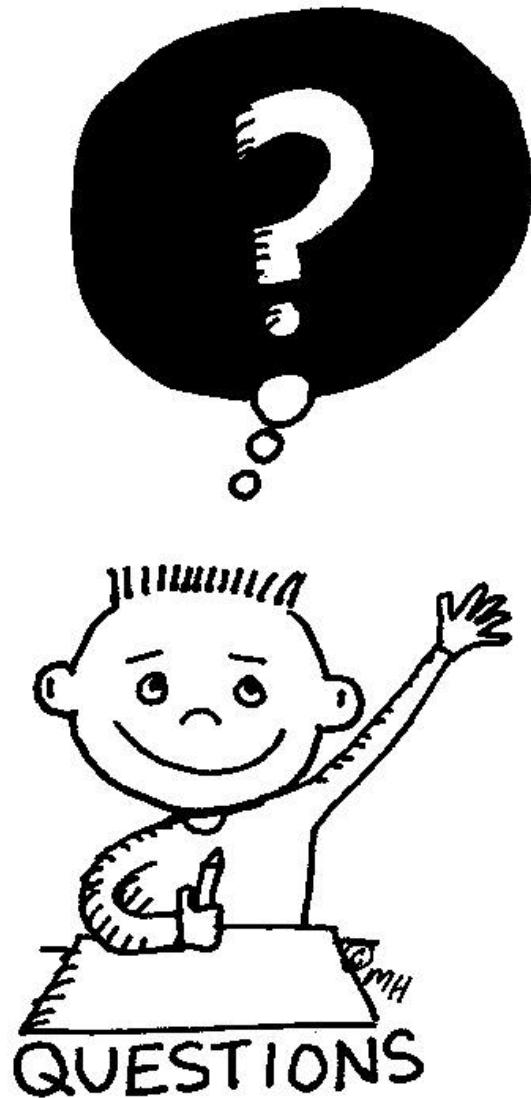
Potential future NORM waste

- ??? m³ NORM waste from the decommissioning of oil/gas platforms from the North Sea

Challenges of NORM issues in Denmark

- There is a need for a long-term management solution for **all** NORM waste in Denmark.
 - It must be decided whether uranium ore is waste or a resource.
 - It must be decided whether a LILW repository/ long-term storage facility will receive tailings and concrete and maybe also uranium ore at Risø.

Questions or comments?



Thank you for your attention