



# Current status Denmark December 2013

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Danish Decommiss

# Danish Decommissioning

- Established in 2003 to
  - Decommissionion DR 1, DR 2, DR 3
  - Decontaminate a Hot Cell facility and a small fuel fabrication facility
  - Decommission the Waste Management Plant
  - Reach Green Field
- Receive, treat and store radioactive waste
- Contribute to a long term solution for the waste



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# Current inventory

- LLW-SL
  - Waste from operation (drums)
  - Waste from decommissioning (containers)
- ILW-LL / LLW-LL
  - 233 kg irradiated fuel
  - DR 1 core (solution of uranyl)
  - Graphite (decommissioning)
  - Sealed sources



# Current nuclide inventory (at storage)

- "Total 2013" – More than 1.900 TBq
  - ~1.000.000 GBq Ni-63 (from DR 3 internal parts)
  - ~100.000 GBq Co-60
  - ~10.000 GBq Eu-152
  - ~10.000 GBq Ni-59
  - ~2200 GBq C-14 (from graphite)
  - ~210 GBq Cs-137



# Current Storage

~ 5200 standard drums  
37 10" ISO-containers (half height)  
45 Steel containers



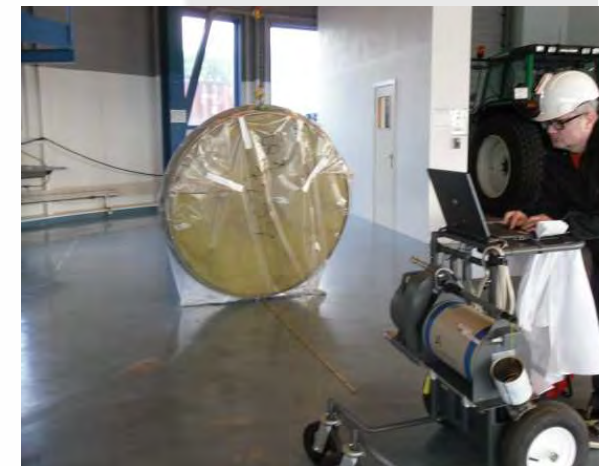
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# Expected inventory

- Arising waste
  - $\sim 8 \text{ m}^3$  per year from external suppliers
  - The remaining decommissioning waste
  - Waste from cleaning the Hot Cell Facility
- Total expected around  $5000 \text{ m}^3$  (+ NORM)



# Characterization of waste



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# Long term solution in 3 tracks (1)

- Track 1: Political decision from 2003
- Final disposal LLW/ILW
  - Preliminary studies has been concluded
  - Strategic Environmental Studies is ongoing
  - Siting process – reducing the number of sites to 2-
  - Investigations of an international solution for speci waste
    - Bilateral or ERDO





# Long term solution in 3 tracks (2)

- Track 2: Political decision from 2013
- Long term storage
  - Preparing "Basis for decision"
    - Including consideration about safety criteria, operation and maintenance
  - Combined with Investigations of an international solution for special waste



## **Long term solution in 3 tracks (3)**

- Track 2: Political decision from 2013
- Investigations of an international solution for all waste
  - Survey done by the Ministry of Foreign Affairs

