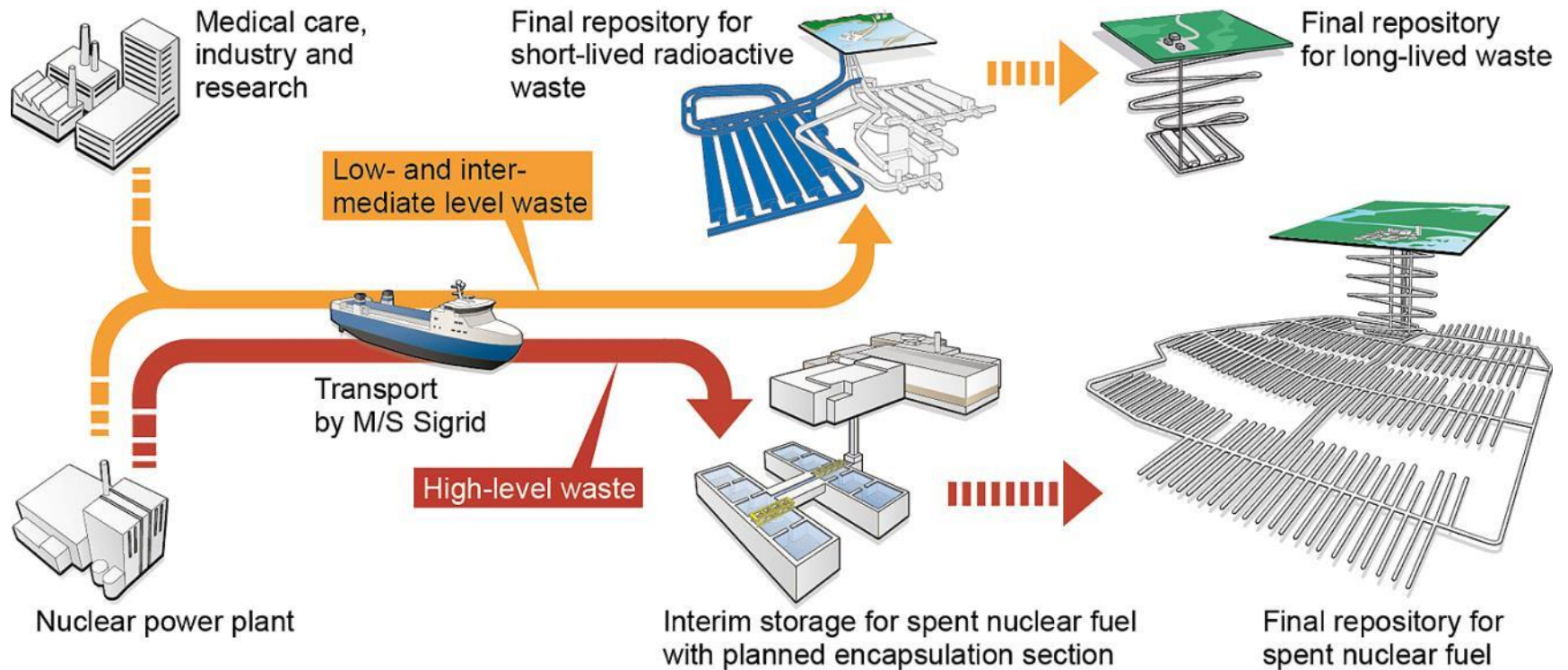


SKB programme update
and status

Magnus Holmqvist
President
SKB International

The Swedish system



Clear responsibility and sound financing

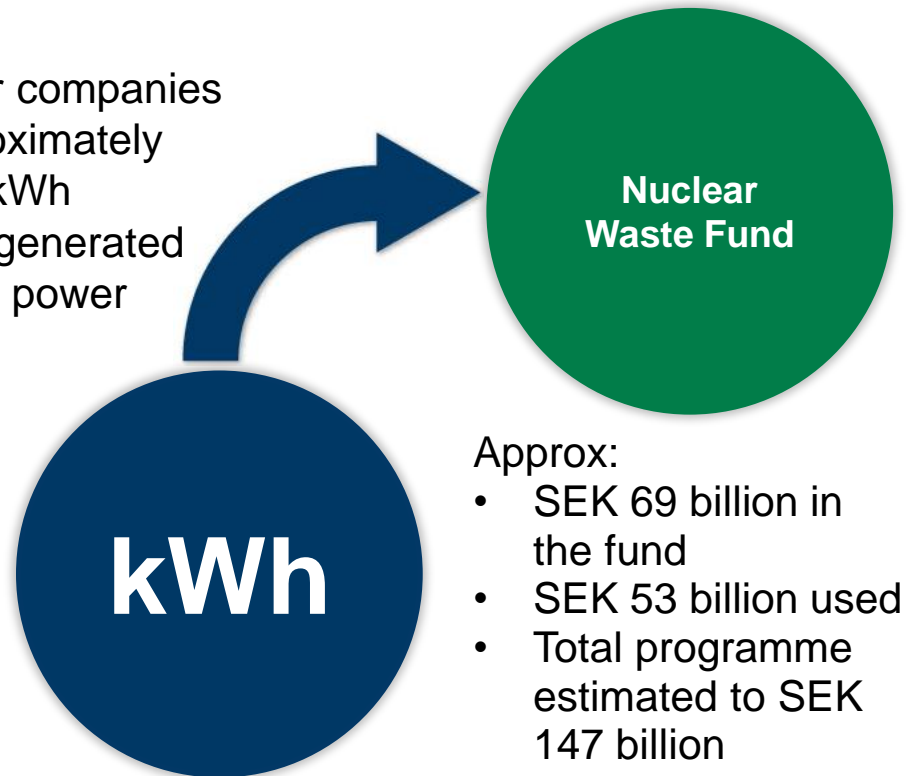
VATTENFALL

**FORSMARKS
KRAFTGRUPP**

***Sydkraft
Nuclear Power AB**

okg
- part of the energy business Uniper

The owner companies fund approximately 5 öre per kWh electricity generated by nuclear power



- Approx:
- SEK 69 billion in the fund
 - SEK 53 billion used
 - Total programme estimated to SEK 147 billion

*Sydkraft Nuclear Power AB is part of the Uniper group.

Clab - Interim storage for spent fuel

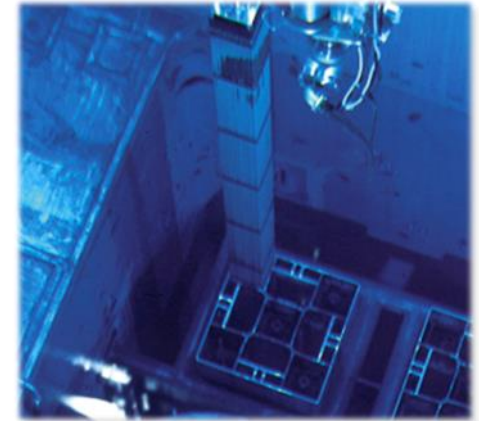
- 6.700 tonnes spent fuel in interim storage
- Preparation in the facility; construction for new casks, new fire system.
- Next year – final spent fuel delivery from Ringhals 1 & 2

SFR - Final repository for short-lived operational radioactive waste

- 40 000 m³ of waste in the facility
- New operational system Scada installed and also a new waste data base (GADD)

Transportation system

- Sigrid – will by law be a protected object by the end of 2019.
- Construction of new transportation casks



KBS-3 The licensing process



- License application submitted by SKB in 2011
- Two facilities, at two sites
 - Final repository at Forsmark (Östhammar)
 - Encapsulation plant (addition to existing interim storage Clab) at Oskarshamn
- Tried according to two laws, in parallel
 - Nuclear Activities Act – handled by SSM (the Swedish Radiation Safety Authority)
 - Environmental Code – handled by the Land and Environmental Court
- SSM and Environmental Court each issued a statement to the Government in January 2018
- The Government may then approve the application, having first consulted with the two municipalities involved



Thank you!

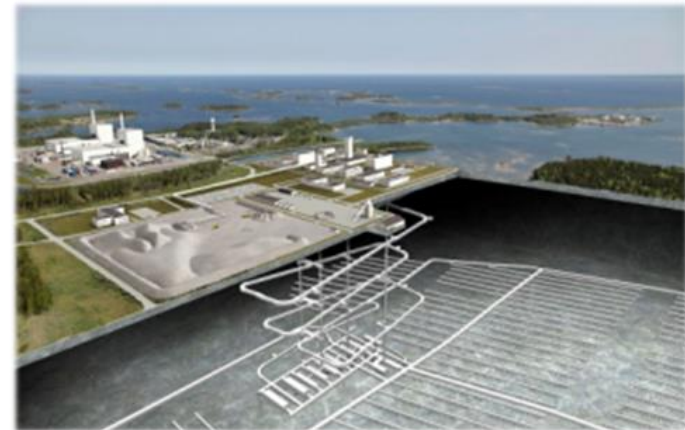


SSM's and MMD's statements

SKB's application	SSM	MMD
Clab 11 000 ton	✓	✓
The site of Clink	✓	✓
The construction and operation of Clink	✓	✓
The design and layout of the final repository	✓	✓
The site of the final repository	✓	✓
The construction and operation of the final repository	✓	✓
The barrier of the rock	✓	✓
The barrier of the buffer	✓	✓
The barrier of the canister	✓	✗
The environmental impact statement	✓	✓

Conclutions from the additional work

- The conclusions from the canister issues brought up by the Land and Environmental Court is that these issues are not a threat to the integrity of the canister.
 - Supplementary information on canister integrity submitted to Government in April 2019, review until December 2019
- Overall result: Main conclusion in SR-Site is unaltered: A KBS-3 repository built at the Forsmark site will fulfil SSM's requirements on post closure safety.
- Licensing process of KBS-3 repository at Forsmark continues



Extended Final Repository for short-lived operational radioactive waste, SFR.



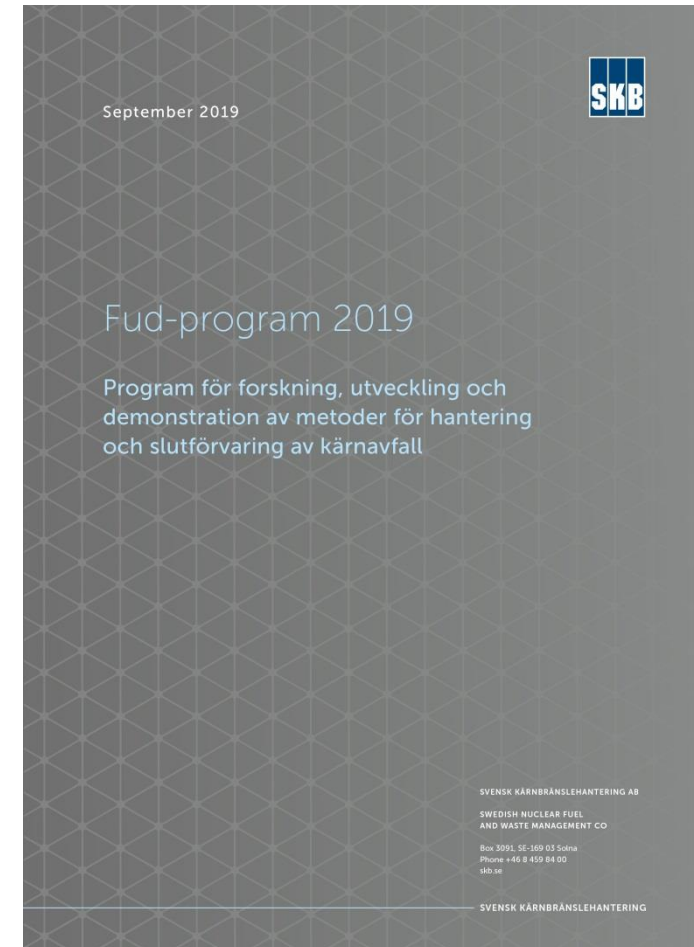
- License application in 2014
- Integrated facility after extension
- Approximately 130 000 m³ of which 50 000 m³ ILW
- The Land and Environment Court and the Swedish Radiation Safety Authority, SSM, have announced SKB's application for a license to extend SFR in December 2017.
- The main hearing in the Environmental Court finished on 4 October 2019 after a two week long hearing
- The Court and SSM will give their statements to the Government. Before the Government decision the municipality of Östhammar needs to give their approval.
- The construction of the extended SFR will take appr. 6 years to complete



Other Government decisions



- SKB present its plan for continued research and technological development every third year in a special RD&D programme.
- The 2019 RD&D programme was submitted to the Swedish Radiation Safety Authority on 30 September 2019.
- On September 30 2019 SKB submitted the Cost Estimate report and proposed the financial fee to the fund for the coming three years.
- The Government will make their decision on the RD&D report as well as on the proposed fee in 2020.



Thank you!

