

Short introduction on KYT programme and KYT SURFACE project

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KYT Programme on Nuclear Waste Management, KYT2022 (2019-2022)

- The Finnish research programme on nuclear waste management is based on the Nuclear Energy Act (990/1987) according to which the aim of research is "ensuring that the authorities have such sufficient and comprehensive nuclear engineering expertise and other facilities at their disposal that are needed for comparisons of the various ways and methods of carrying out nuclear waste management".
- The research emphasis on the research programme is on nationally central research topics.
- The long-term aim of KYT2022 programme is to maintain and advance national knowhow and infrastructure in nuclear waste management and to promote collaboration between authorities, nuclear industry, and scientists

KYT SURFACE project

- Currently all low- and intermediate level (LILW) nuclear waste is deposited into the bedrock (60-110 m below ground surface) in Loviisa and Olkiluoto.
- Near surface repository is a new concept in Finland.
- Objectives of the KYT SURFACE project is to discuss:
 - Design basis for the repository based on Finnish and international regulations and local site conditions.
 - Repository concepts.
 - Engineered barriers.
 - Long-term performance and evolution of repository and engineered barriers in the expected site conditions (focus of the next phase of the project).
 - Monitoring.
 - Principles for the safety case
 - Life-cycle of the repository.
- Educate new Finnish experts on near surface repositories.

Seminar on Near Surface Repositories

■ Expectations

- Learn from international experience on near surface repositories.
- Discuss research needs for the future.
- Discuss needs for further technical development concerning the design, concepts, engineered barriers and monitoring.