Centre for Nuclear Safety

Radioactive waste management and disposal
In the management and permanent disposal of radioactive waste, safety is the primary concern. The regulatory and environmental standards are increasingly stringent, yet there are still avenues for innovation leading to schedule and resource savings.

**Services**

VTT is the major technology developer and licensing support partner in Finland's radioactive waste programs for over 30 years. Finland has demonstrated reliability and safety in the permanent underground disposal of high-level nuclear waste, in line with the strictest safety and environmental standards.

**Our offering:**

- Geological site and hydrogeochemical characterisation
- Engineered Barrier System (EBS) components design
- EBS performance assessment and demonstration
- Modelling and monitoring of material behaviour
- Radwaste container performance assessment in disposal system
- Waste volume reduction and immobilisation
- Encapsulation and disposal technology
- Disposal system and component examination technologies
- Material evaluation, component manufacturing and quality control solutions
- Modelling for post-closure safety assessment
- Safety case
- Other licensing documentation and reviews
- National roadmaps and stakeholder engagement

Together with partners from Finland’s radwaste programs, and using our expertise and facilities, we can reduce your time-to-deposition and development costs.

**Get in touch with us!**

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