

How we can make nuclear energy safe enough and sustainable?

International Nuclear Energy Symposium

Tokyo, Japan, 19 May 2015

Session 3

Kaija Kainurinne, Finland

Perception of safety and risks

- **Regular safety assessments** and implementing proposed safety measures - in the EU stress tests and proposed measures after Fukushima
- **Performance of the operators, suppliers and regulatory authorities** – reliable electricity production, safety assessments and safety culture in general
- **Open and transparent decision making processes** – four step licensing process as described in the Finnish nuclear act => trust on society

Safety is an absolute priority for the utilities!

How to gain trust in society?

In order to have public acceptance all concerns of the society has to be taken into account: open and democratic **decision making process**, high level of **nuclear safety**, proper and responsible short and long term **radioactive waste management** and **final disposal of spent fuel**.

- Legislation in place
- Democratic and open decision making process
- Open dialogue at local and national level
- Transparency in nuclear activities: operations, nuclear safety, waste management,
- Reliable radioactive waste management

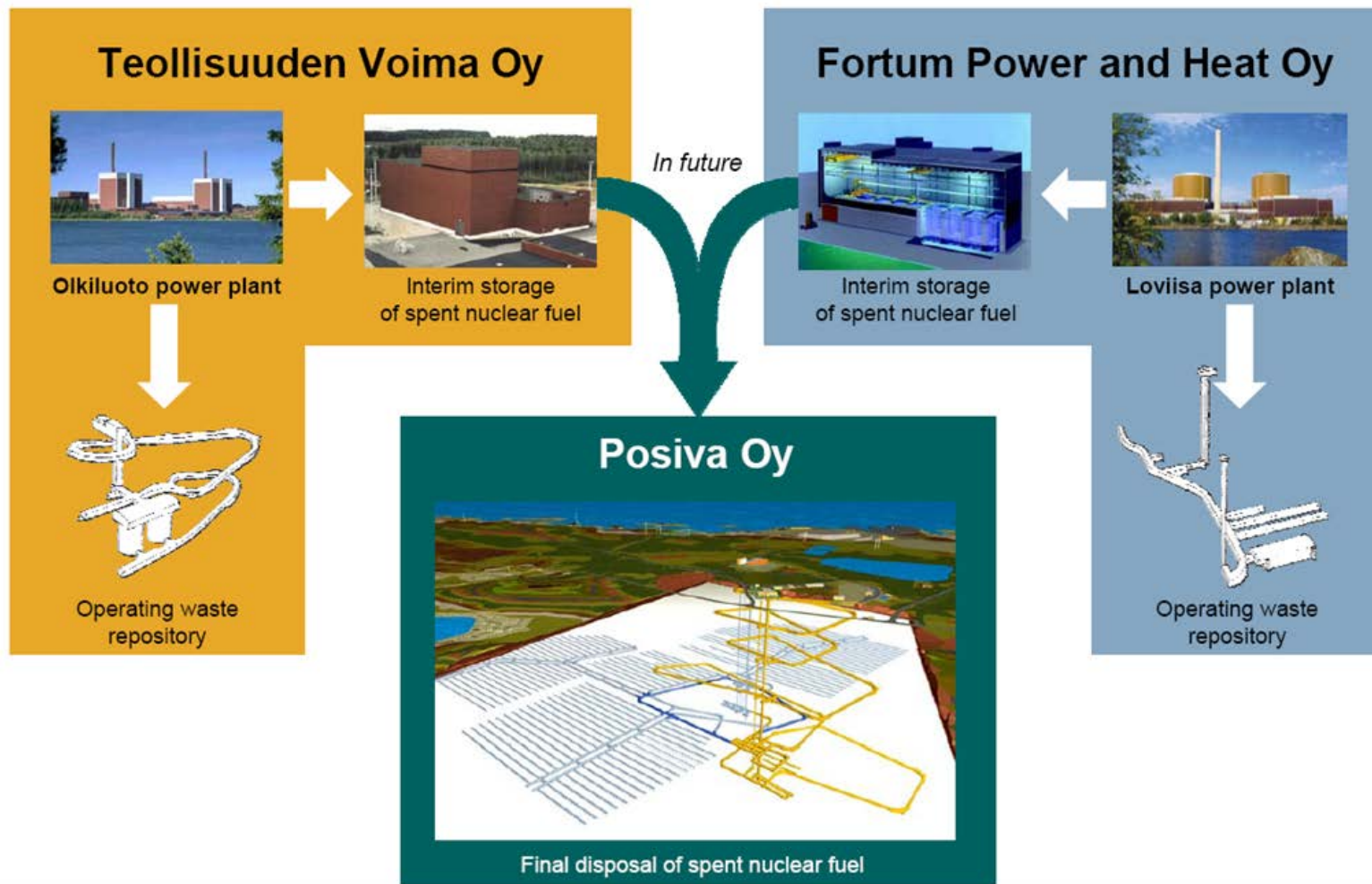
Final disposal of spent fuel in Finland

- Long process, wide participatory process
- Legislation in place, also concerning the financing of waste management (separate waste management fund, responsibilities lie on operators)
- started late 70's: scanning of possible sites, site selection, public participation in decision making process, political acceptance, long term safety evaluation, application of construction license

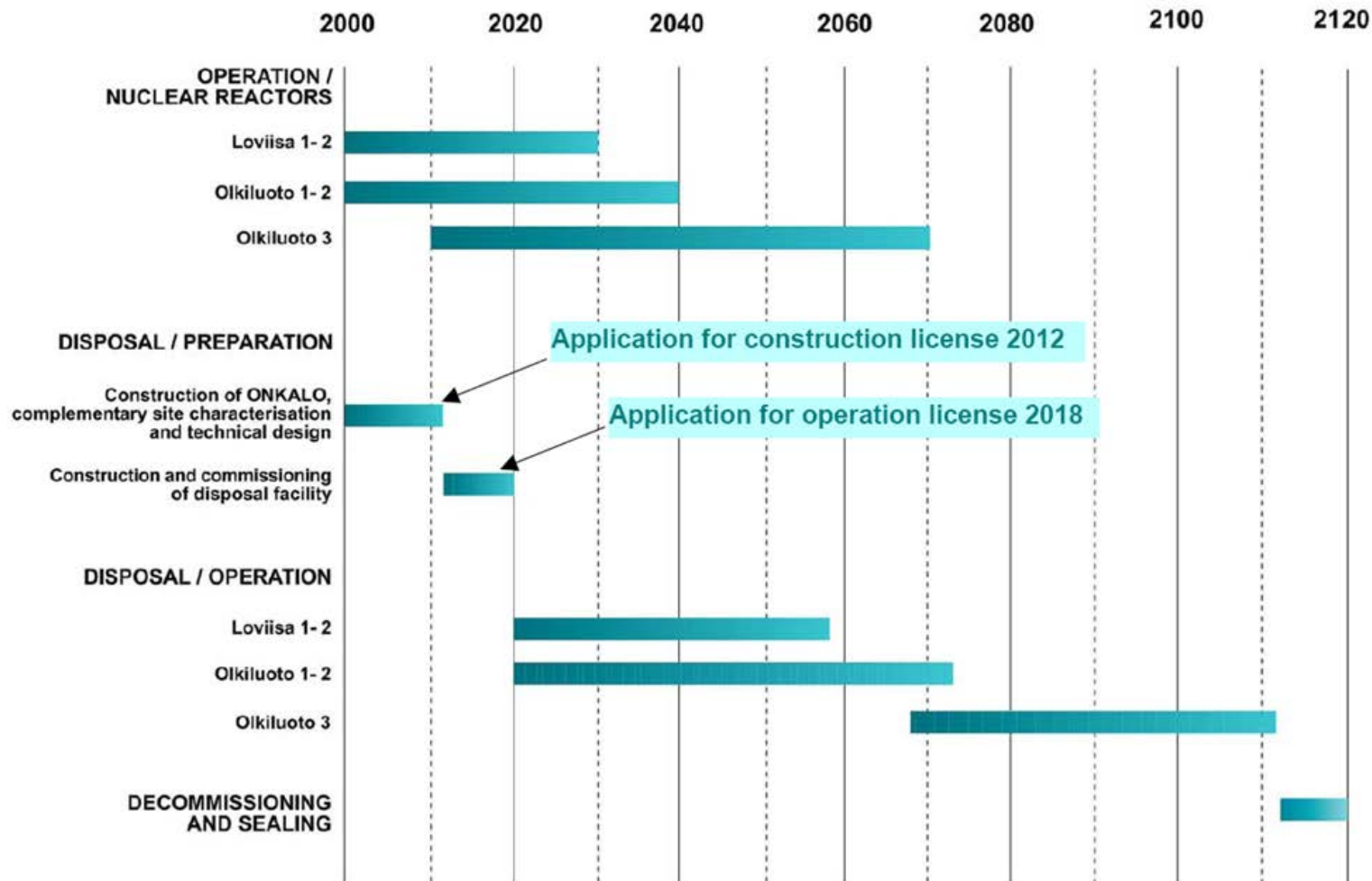
Posiva's example

- More than 30 years ago Finland set the first outlines and target schedules for the nuclear waste management to be carried out by nuclear power companies. Those plans are still valid, and the granting of the construction licence for the final disposal is expected very soon.
- Many countries see difficulties in site selection, provision for the associated costs and political decision-making.
- There is no real secret to Finland's progress in waste management. Authorities and operators have been making systematic progress, step by step.
- Many still doubt the long-term safety of final disposal, even in Finland. However, the implementation of the disposal plans has gained wide acceptance in the vicinity of Olkiluoto as well as at the national level.

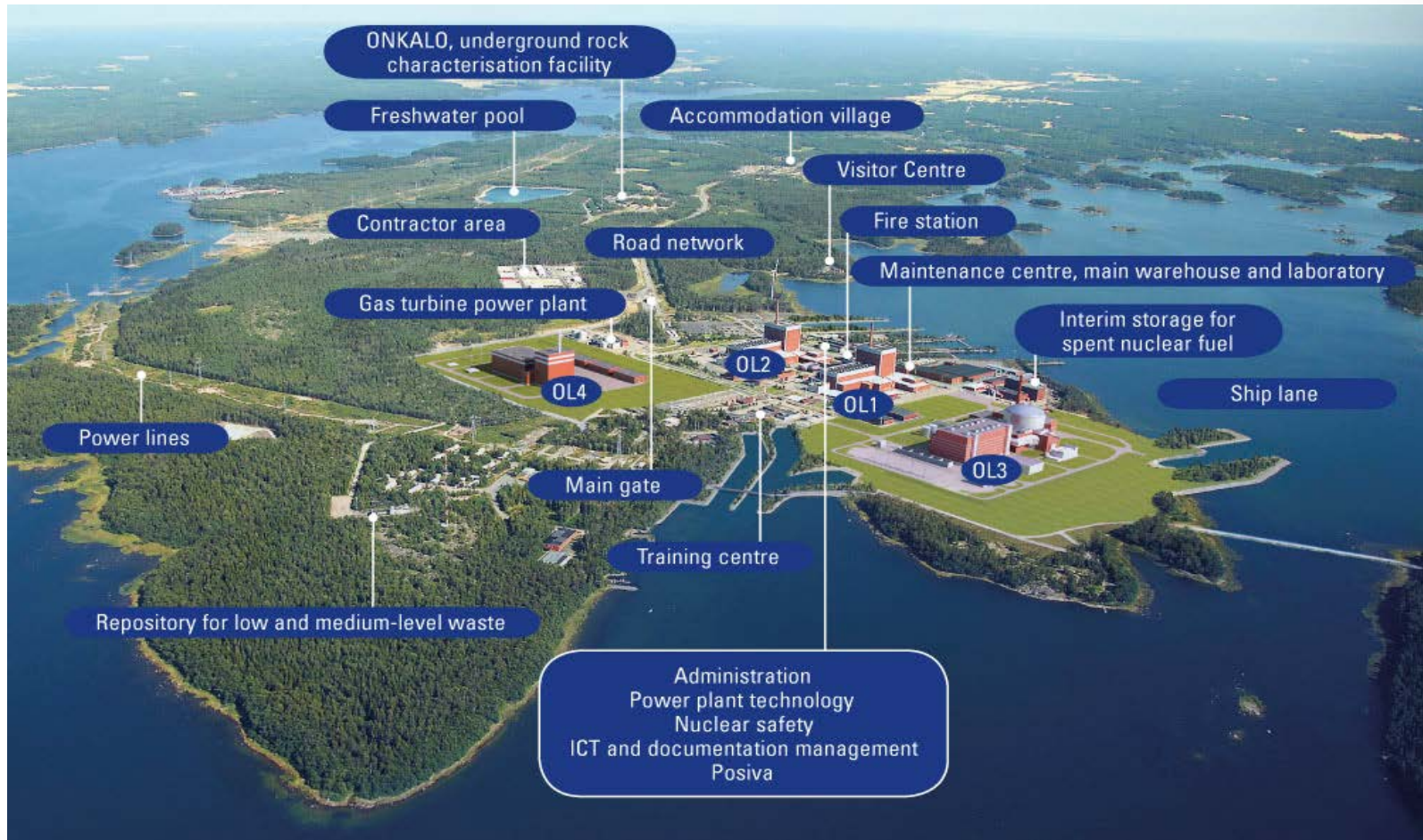
Implementation of waste management



Schedule of spent fuel disposal



Thank you for your attention!



kaija.kainurinne@gmail.com

Contact: report@tky.iej.or.jp