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Local perception of SNF repository in Eurajoki, Finland

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Nuclear waste policy in Finland

4 NPP units in operation, 5th underconstruction

- 1983: Aims and schedules of NWM
- 1987: Nuclear Energy Act
- 1994: Amendment to the Nuclear Energy Act
- 1995: Posiva established
- 2000: Decision in Principle by the Council of State
- 2001: Ratification by Parliament
- 2002: The expansion of the final disposal facility due to the new NPP unit (OL3)
- 2010: Further construction of nuclear power, the expansion of the final disposal facility due to the new NPP unit (OL4), SNF management of Fennovoima?



Site selection strategy and process

- From a systematic siting strategy to more flexible one
- Focus from purely geological elimination to societal and political suitability of the host community

- In the early 1980s: hundreds of sites
- 1985: 101+1 rock blocks as a result of the systematic selection and elimination
Olkiluoto selected due to its special position as location of a NPP
- 1987: five sites selected represented different geological environments
- 1992: two sites excluded because of complicated bedrock structure → three sites
- 1997: a new site due to its special position as location of a NPP → four sites
- 1999: Posiva's DiP application, Olkiluoto proposed

- In the future a second final disposal facility for SNF produced by Fennovoima?



Milestones of local decision-making in Eurajoki

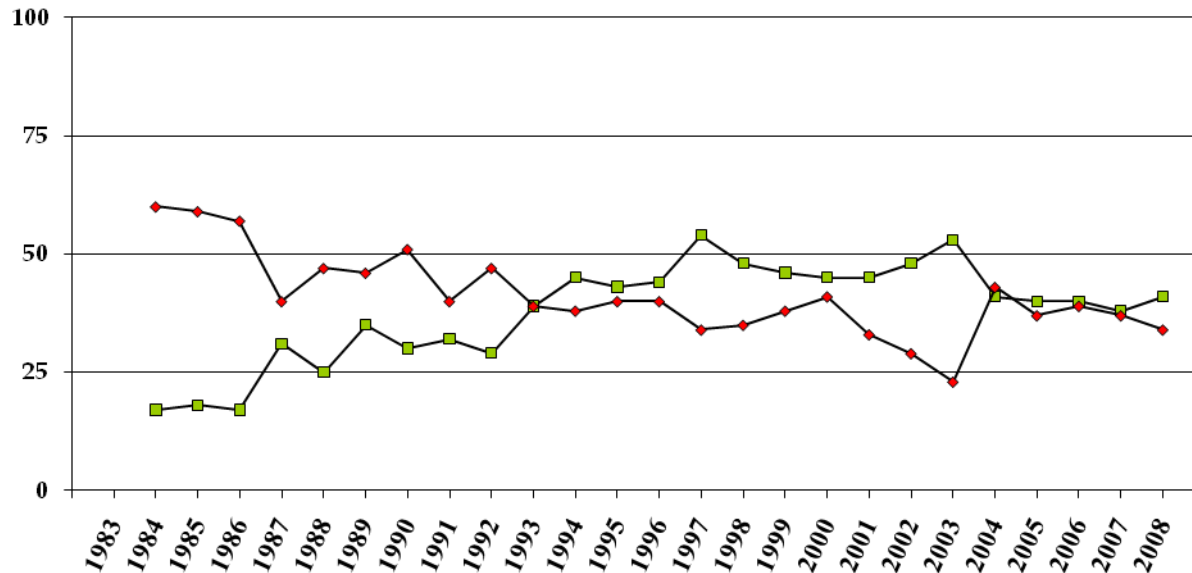
Eurajoki - a nuclear community since the 1970s

- 1993: municipal report forbid the siting of the SNF repository at Olkiluoto
- 1994: municipal report reformed
- 1995: cooperation agreement with TVO signed
- 1998: Vuojoki working party established
- 1998: new municipal strategy (incl. the Olkiluoto Vision)
- 1999: Vuojoki agreement (a compensation package) signed with Posiva
- 2000: Posiva's Decision-in-Principle application approved by the local council
- 2003: construction licence for ONKALO granted
- 2008: expansion of the SNF repository (for OL4) approved by the local council
- 2009: expansion of the SNF repository (for LO3) approved by the local council



Residents of Eurajoki disagreeing and agreeing with the view that final disposal in the Finnish bedrock is safe (%)

Based on data from the annual Finnish energy attitudes study (1983–)





The Survey

- **Postal survey**
 - Conducted in June 2008 by JYU and UTA
 - 3000 recipients, stratified sampling
- **The target population**
 - 16-75 year olds, Finnish-speaking
 - Eurajoki + six neighbouring municipalities
- **The respondents**
 - 606 in total, 245 from Eurajoki
 - Response rate 20%



Four issues where the number of those assessing impact to be "positive" was greatest (%)

Employment in the area	22
Economic development in the area	21
Own satisfaction with the area as a place to live	13
Development of the area generally	13



Five issues where the number of those assessing the impact to be "negative" was greatest (%)

State of nature surrounding the final disposal facility	30
Rural non-farm livelihoods (fishing, hunting etc.)	23
Outsiders' image of the area	21
Own image of the area	19
Own image of Eurajoki in particular	18



Four risk dimensions on which greatest numbers of respondents perceived that substantial threat ("explicit threat / high threat") was posed by repository (%)

	No threat / hard to say	Slight threat	Explicit threat / high threat
Health of future generations	20	23	57
Safety of future generations	18	27	56
Well-being of future generations	24	24	51
General health	32	22	46



Acceptance of nuclear waste disposal among Eurajoki residents (%)

	<i>St1</i>	<i>St2</i>	<i>St3</i>	<i>St4</i>	<i>St5</i>
Agree	52	42	42	19	4
Neutral	24	22	19	19	6
Disagree	24	36	39	62	90

St1: NW produced by TVO and Fortum should be disposed of in Finland.

St2: NW produced by TVO and Fortum should be disposed of in Olkiluoto.

St3: I accept extension ... for the needs of TVO and Fortum.

St4: I accept extension ... also for the needs of other Finnish actors.

St5: I accept extension ... for the purpose of importing SNF from abroad