Key Factors for Safe Nuclear Decommissioning and Disposal

Sami Hautakangas

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Fortum in brief

For a cleaner world

Some 8,000 energy professionals

Nordic and Baltic countries, Russia, Poland

64% of power generation CO_2-free - in EU 97%

Core competences in hydro and nuclear power, combined heat and power production and in operating on energy markets, circular economy

Energy-related products and expert services

1.3 million electricity sales customers

Figures: 2015

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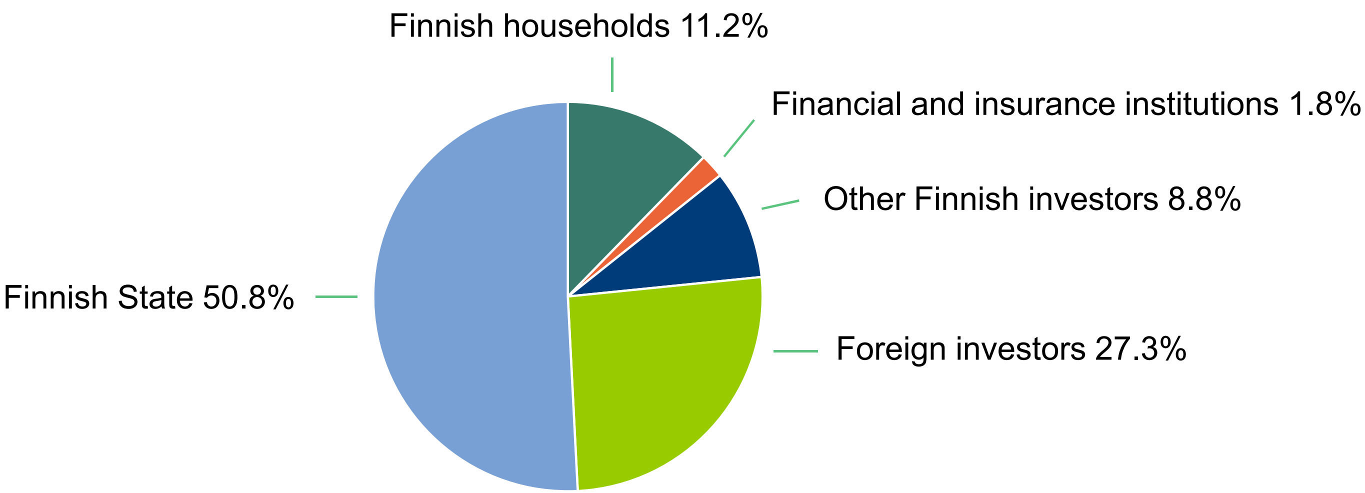
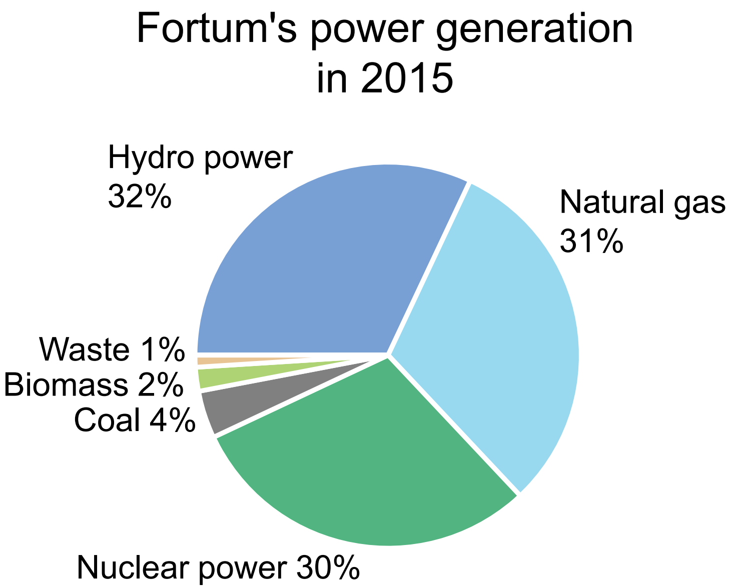
Fortum is publicly listed company, majority owned by Finnish state – total number of shareholders over 140,000

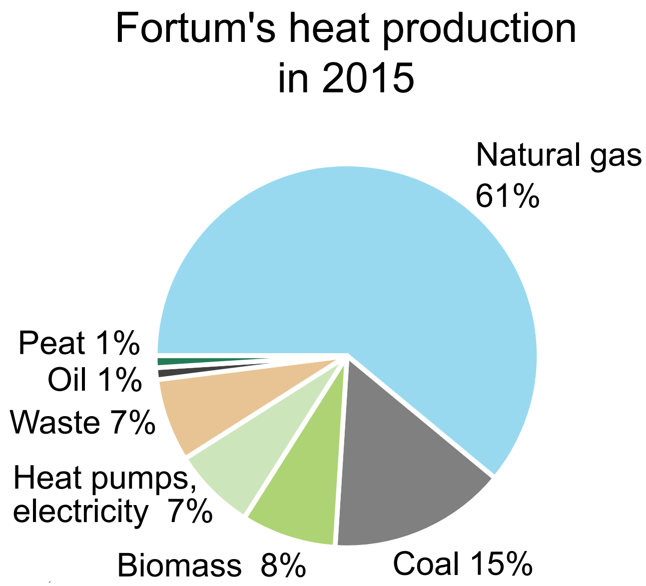
- Power and heat company in the Nordic countries, Russia, Poland and the Baltics
- Listed at the Helsinki Stock Exchange since 1998
- Among the most traded shares on the Nasdaq Helsinki stock exchange
- Market cap ~13 billion euros



Fortum's power and heat production by source



Total generation 77.1 TWh
(Generation capacity 14,331 MW)



Total production 39.7 TWh
(Production capacity 20,502 MW)

Incl. Fortum's associated company Fortum Värme; power generation 1.2 TWh (capacity 639 MW) and heat production 7.5 TWh (capacity 3,891 MW).

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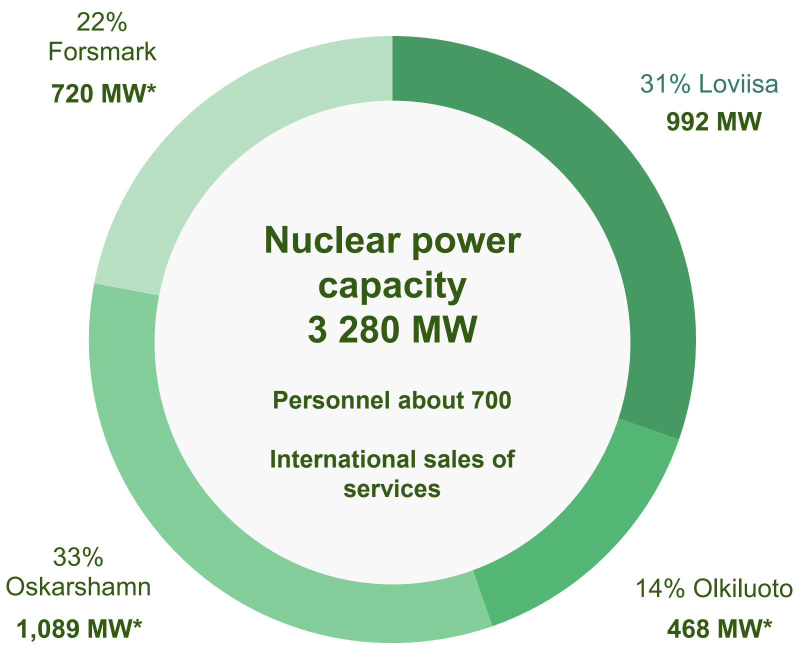
Nuclear power production in Finland and Sweden

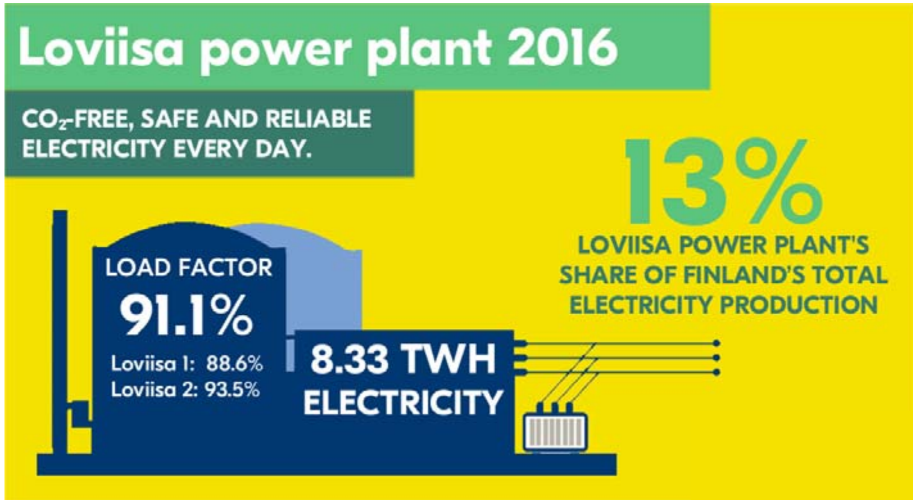


Fortum’s nuclear power production in Finland and Sweden corresponded to one third of Finland’s total electricity production in 2014.

* Fortum’s share

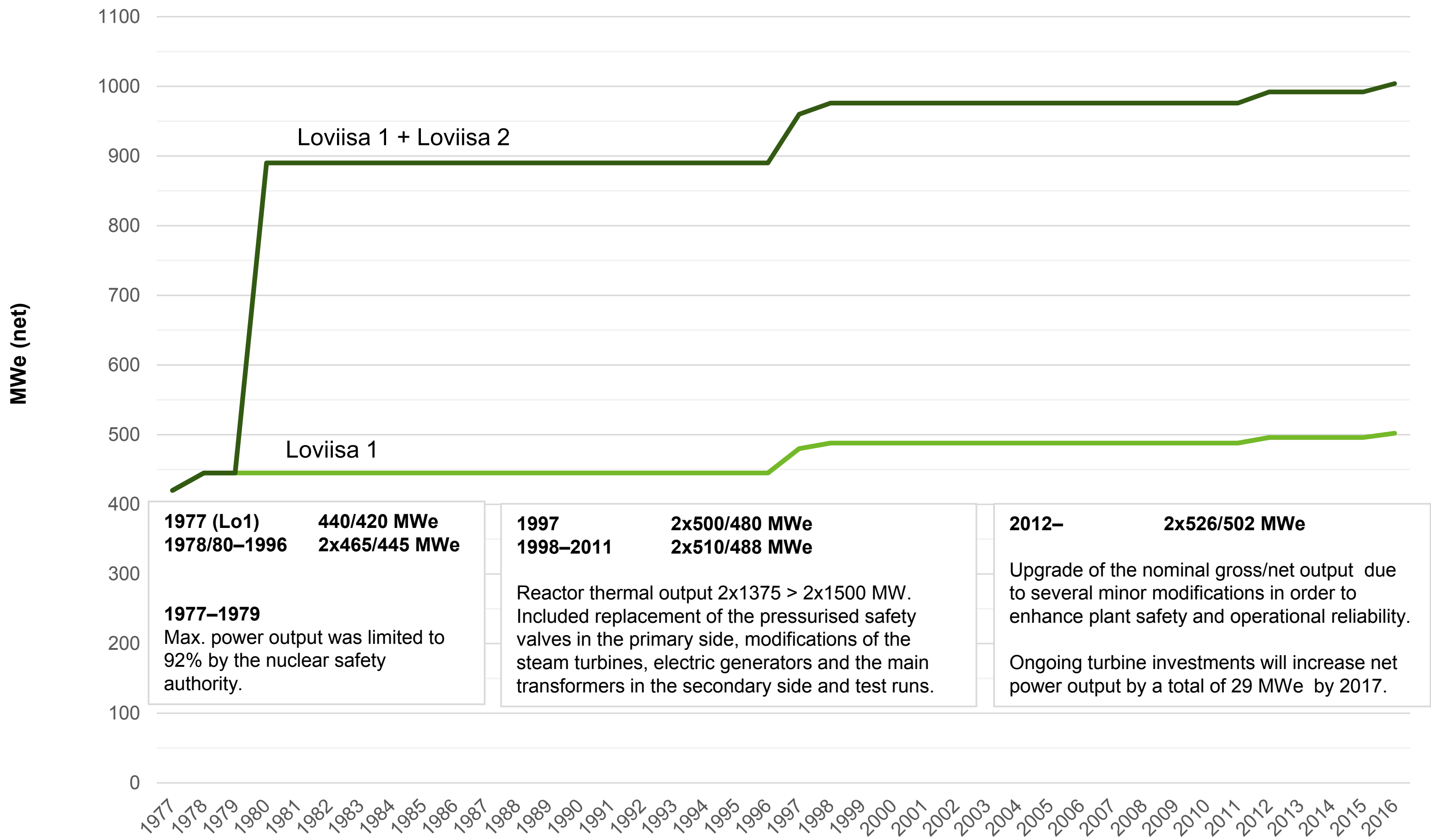
Loviisa nuclear power plant

- Loviisa power plant has two VVER pressurised water reactors, with capacities of 502 MW net each
- Loviisa 1 was commissioned in 1977 and Loviisa 2 in 1980
- Operating licence for Loviisa 1 is valid until 2027 and Loviisa 2 until 2030
- Annual production in 2016 totalled 8.33 TWh, i.e. about 13% of Finland's electricity production
- Power plant continuously employs about 500 Fortum employees and 100 subcontractors



The amount of electricity generated at the Loviisa power plant is almost equivalent to the total electricity consumption of the cities of Helsinki, Espoo and Vantaa.

Power upgrades at the Loviisa NPP 1977–2016



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