



Good production year 2022 at Fortum's Loviisa nuclear power plant

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Fortum's Loviisa nuclear power plant had a good production year in 2022. The power plant generated a total of 7.9 terawatt-hours (net) of carbon-free power. Thanks to the Loviisa nuclear power plant's electricity production, Finland emits about 6 million tonnes less carbon dioxide emissions annually compared to the equivalent amount of fossil fuel-based electricity.

On an international scale, the 89.4 % load factor of the Loviisa nuclear power plant was among the best in the world for pressurised water reactors. Loviisa Unit 1's load factor was 90.5 % and Loviisa Unit 2's was 88.2 %.

In 2022, Loviisa's Unit 2 underwent the extensive annual outage done every 4 years and Unit 1 the refuelling outage. The annual outage of Unit 1 lasted 29 days, and the annual outage of Unit 2 was 36 days. The annual outage of Unit 1 was delayed by about a week and Unit 2 by approximately five days from the original plan.

"The annual outages were challenging, but all the modification and repair works were completed. The main reason for the delay with Unit 1 was due to a leak in the main reactor coolant pump's sealing water line, detected during a leak test. The most significant reason for the delay with Unit 2 was the replacement of a main reactor coolant pump, which had failed during the start-up phase, with a serviced pump," explains **Sasu Valkamo**, Vice President of Loviisa nuclear power plant.

Fortum has applied for a new operating licence for Loviisa nuclear power plant

In March 2022, Fortum applied for a new operating licence for both Loviisa power plant units until the end of 2050. The process is estimated to take about one year.

"The Loviisa nuclear power plant produces about 10% of the electricity used in Finland, so it will continue to have a very important role in clean, domestic electricity production in the future," says Valkamo.

The Loviisa nuclear power plant is a major employer in the region, providing work for approximately 530 Fortum employees and nearly 100 permanent employees of other companies working in the power plant area every day. In addition to Loviisa's own personnel, about 750 external workers participated in the annual outages and investment projects. The power plant also employed some 80 summer trainees. Fortum's investments in the Loviisa power plant were approximately EUR 30 million (2021: approximately EUR 30 million).

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Loviisa nuclear power plant

In 2022, the load factor at Fortum's fully-owned Loviisa nuclear power plant was 89.4%. The continuous development and modernisation of the power plant enable load factors that are among the best for pressurised water reactors, on an international scale. During the past five years, Fortum's investments in the Loviisa power plant have totalled about EUR 325 million. In 2022, the power plant produced total of 7.9 terawatt-hours (net) of electricity, which is more than 10% of Finland's electricity production. Fortum employs about 700 nuclear sector professionals, 530 of them work at the Loviisa power plant. Additionally, nearly 100 permanent employees of other companies work in the power plant area every day.

www.fortum.com/loviisa

Fortum

Fortum is an energy company driving the change for a cleaner world. Our role is to ensure the security of supply and a fast and reliable transition to a carbon-neutral economy by providing customers and societies with clean energy and sustainable solutions. Fortum's core operations are located in the Nordics and consist of CO₂-free power generation, electricity sales, district heating as well as recycling and waste solutions. Fortum's share is listed on Nasdaq Helsinki. www.fortum.com