



The most significant in Finland

Olkiluoto – 30% of electricity in Finland

Jarmo Tanhua, President and CEO, TVO

tvo

OLKILUOTO



tvo

30 % of Finnish electricity comes from one island that provides entire lifecycle management for nuclear power.

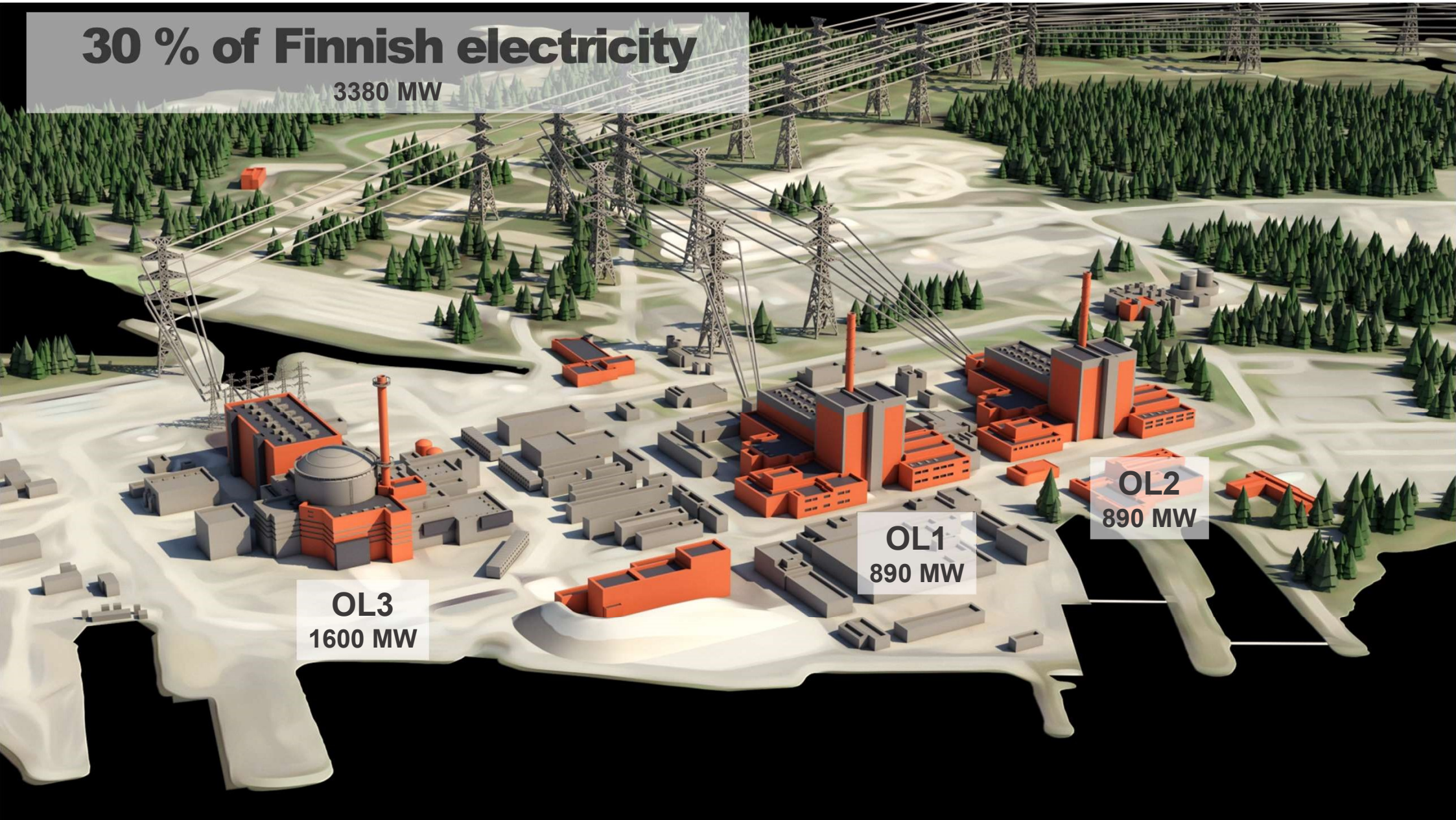
30 % of Finnish electricity

3380 MW

OL3
1600 MW

OL1
890 MW

OL2
890 MW



STRONG PERFORMANCE HISTORY



FULL OF ENERGY – WITH A FULL HEART



1043 + 82 + 2 + 7 = 1134

TVO

Posiva

TVONS

PSOY

Total

OL3

The largest nuclear power plant unit in Europe

Net electric output ca. 1,600 MW

About 2,300,000 horsepower

14% of Finnish electricity

Greatest climate act in Finland





LESSONS LEARNED DURING THE PROJECT

16.12.2021
nuclear reaction
initiated

12.3.2022
connection
to grid

2022-2023
nuclear
commissioning

16.4.2023
regular electricity
production

2.3.2024
1st annual outage

The plant's design
basis service life is
60 years minimum

2021

2022

2023

2024

2080

OL3 main milestones

EXTENSION OF SERVICE LIFE AND POWER INCREASE

- We are exploring the possibility of extending the operational lifetime of OL1 and OL2.
- The current operating license for the units extends until 2038, and we are looking into the possibility of extending it by 10 or 20 years.
- At the same time, we are examining the possibility of increasing the plants' output by 80 MW.



Extending the service life would support domestic, year-round and non-weather-dependent electricity production as well as the climate goals of Finland and Europe.”

Marjo Mustonen, Senior Vice President, Electricity Production



GREEN BOND FRAMEWORK

- The electricity production of TVO is entirely in compliance with the EU taxonomy.
- On December 15, 2023, TVO became the first European nuclear power company to issue a green bond.
- In May 2024, TVO issued a second green bond.



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We are the first European nuclear power company to issue a green bond.”

Lauri Piekkari , Senior Vice President, Treasury



GLOBAL LEADER IN FINAL DISPOSAL

Posiva



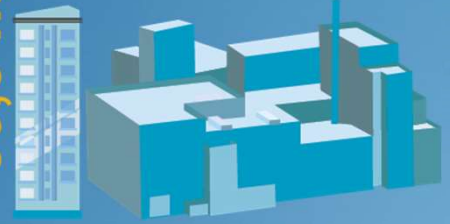
Encapsulation plant

The buildings length is approx 72 m and width approx 40 m.

All the magic happens
here

Highest point of the building is at the top of the ventilation stack at level

+50,3 m



TRIAL RUN – dress rehearsal for actual final disposal

- Trial run began on August 30th.
- The trial operation tests the entire final disposal process of Posiva.
- The methods, equipment, and personnel used are the same as those that will be used in the future.
- The only difference is that non-radioactive materials are used instead of actual used fuel.

The operating license application for the final disposal facility is currently under review by STUK.

THANK YOU!

