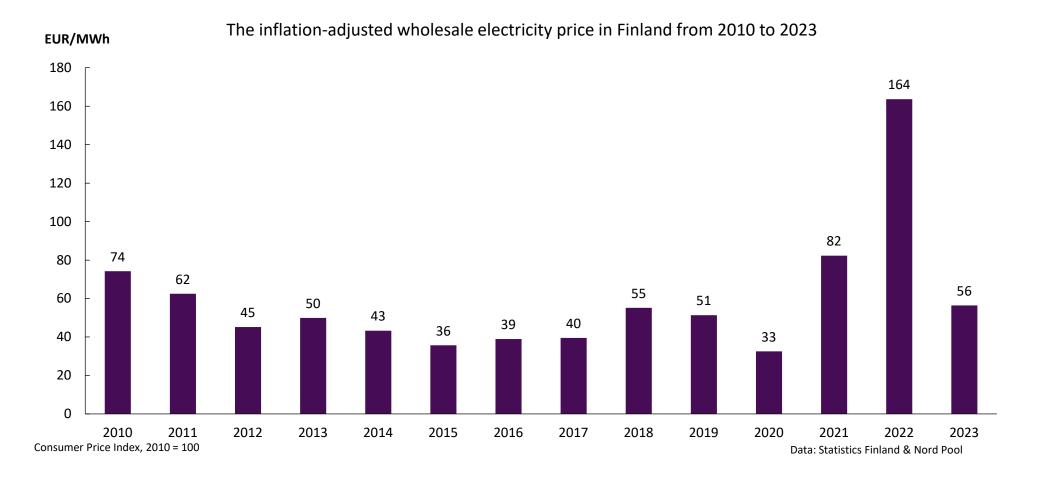
# Electricity price statistics in 2023

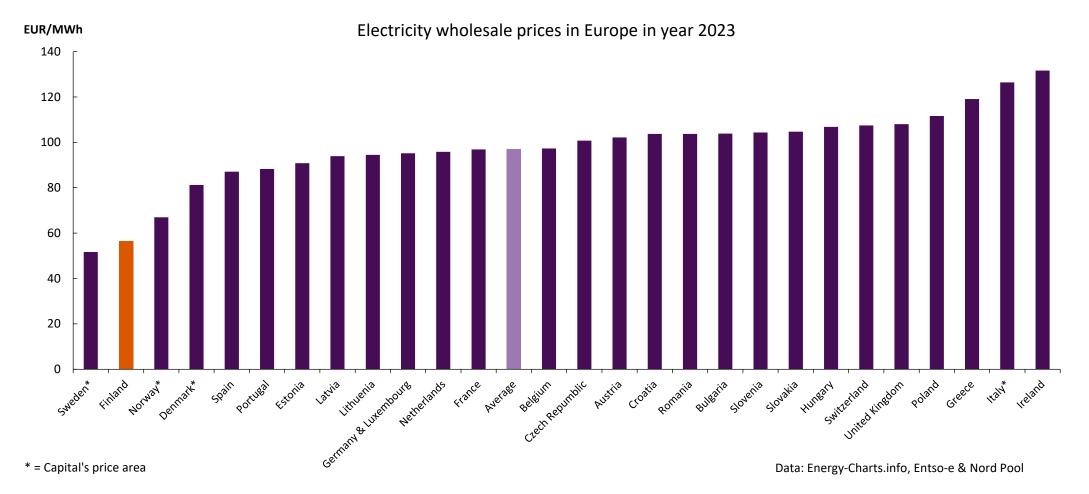
Finnish Energy 4.1.2024



## The development of annual prices in Finland relative to the Consumer price Index



# Finland has the second lowest electricity prices in Europe



## Price gap to Sweden in year 2023

and not all CHP power plants were Price gap to Sweden yet in operation. EUR/MWh 90 80 70 60 50 40 30 20 10 0 February April May July August September October November December January March June

Finland Stockholm (SE3)

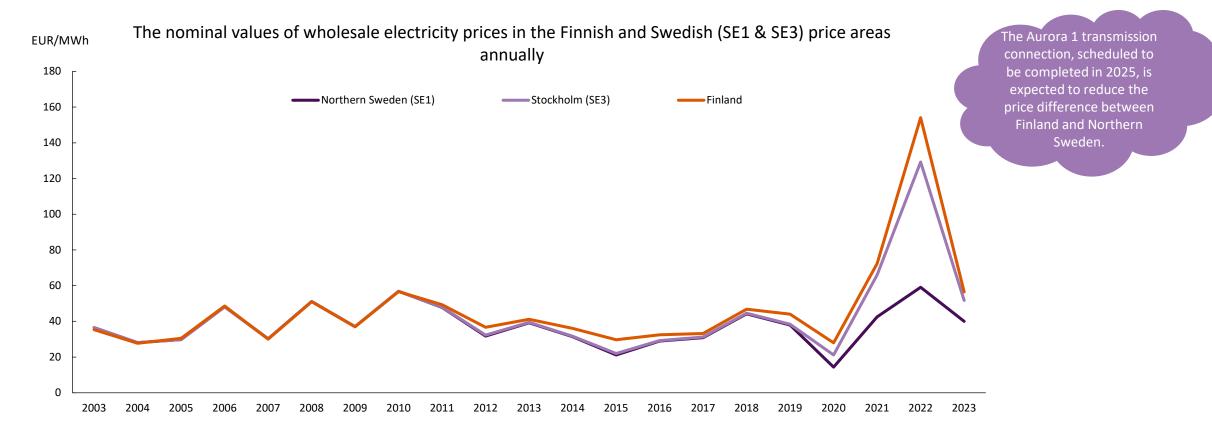
• At the end of August, Olkiluoto 2

and there were disruptions in transmission connections. Simultaneously, there was a

and Loviisa 2 were out of operation,

prolonged period with little wind,

# Price differentials between regions have increased, with Finald following Stockholm



#### SE1 & SE3 between years from 2003 to 2011 = The price of Sweden before splitting the country into four bidding zones

Data: Nord Pool

## Factors influencing the electricity price

### Supply

- Variable costs of generation units (e.g. fuel costs and CO2 prices)
- Status of water reservoirs
- Wind/solar conditions

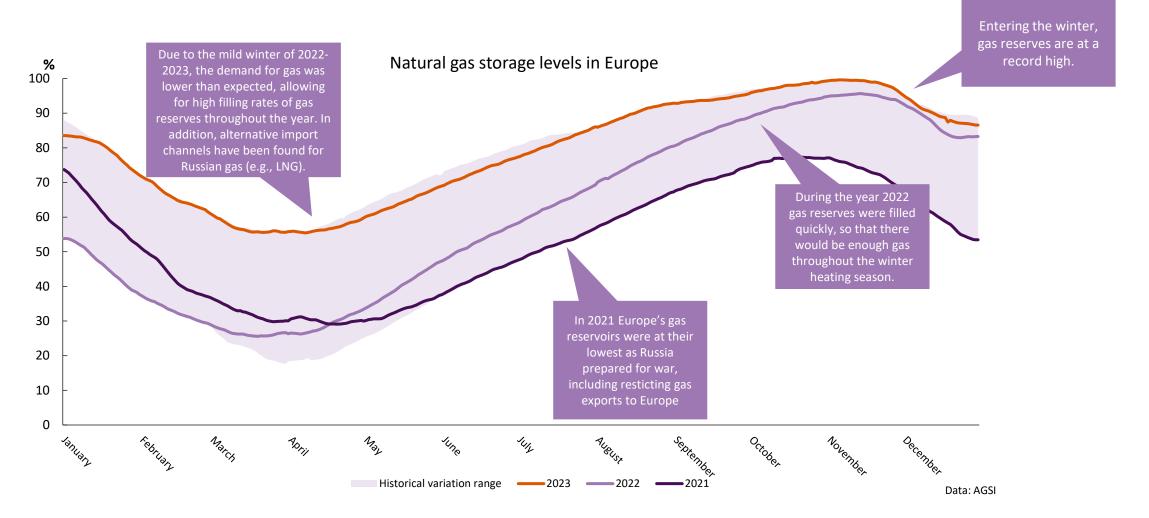
#### Demand

- Weather conditions (Temperature, seasonality...)
- Time of day or week (day vs. night & weekday vs. weekend)
- Industrial activity

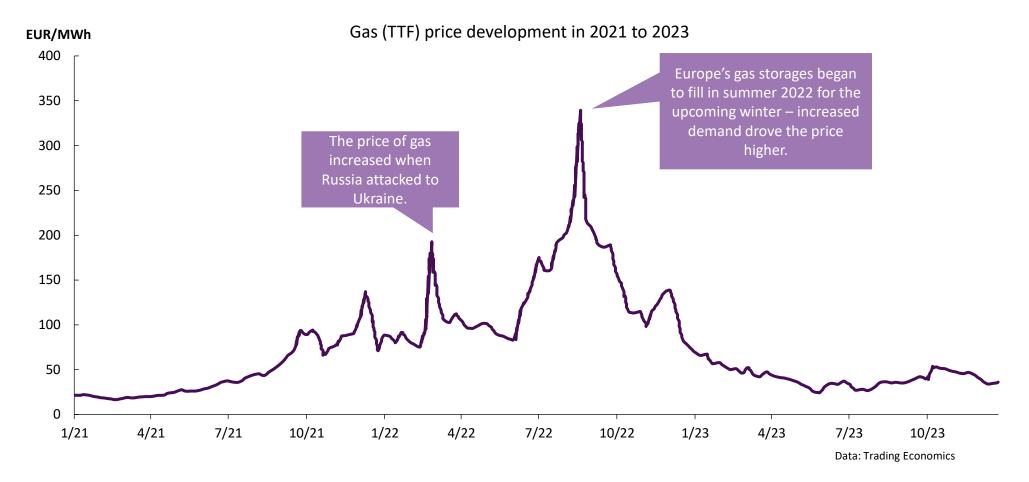
### Cross-border impacts

- Available transmission connections
- Maintenance and incidents in transmission connections
- Demand/supply in neighboring countries

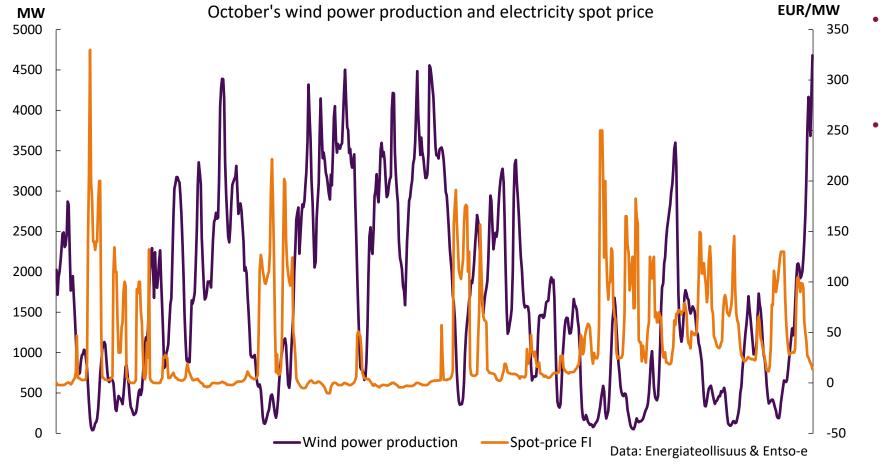
## Alternative import channels have been found for Russian gas – supply and price pressures have eased



### **Price development of gas**

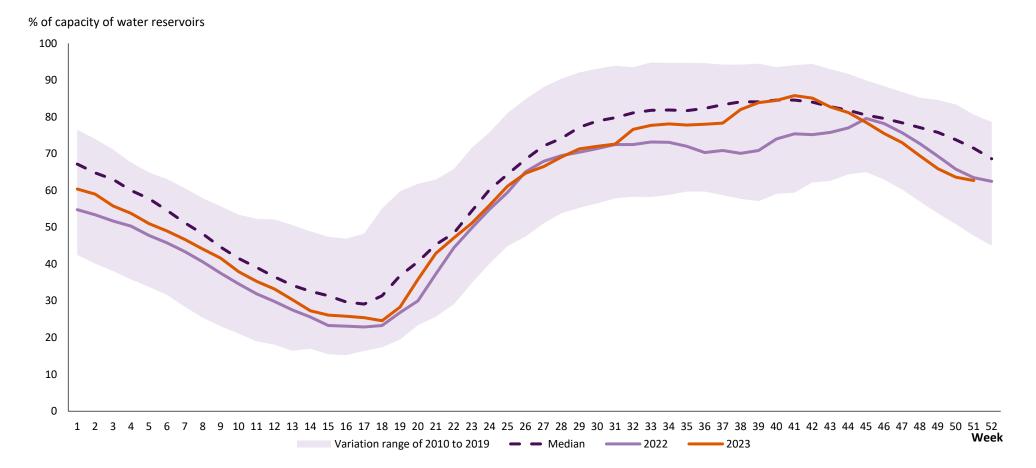


### The connection of wind power to the price

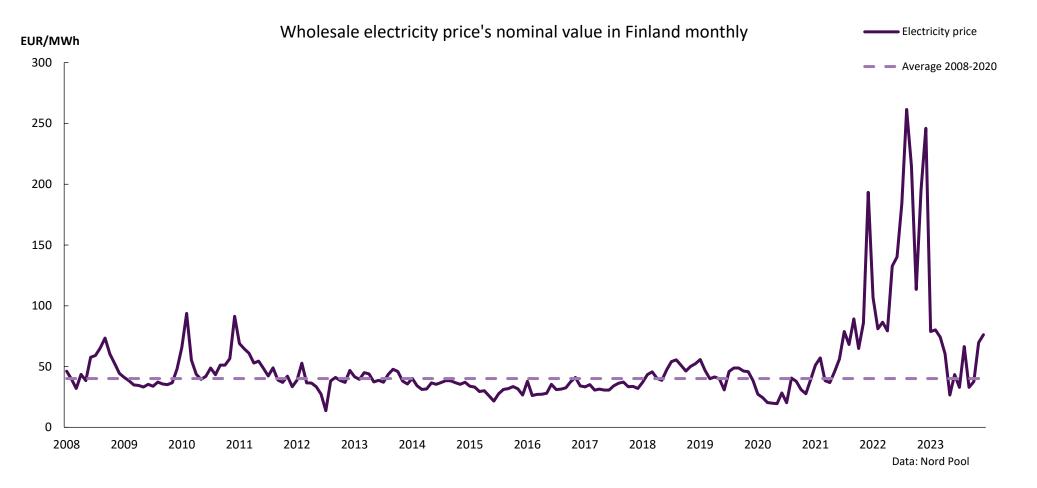


- The amount of wind power production is a significant individual factor influencing the price in Finland
- Other factors continue to have a significant impact on the price as well, such as electricity demand, temperature, status of water reservoirs, transmission connections and maintenance and incidents in nuclear and thermal power plants.

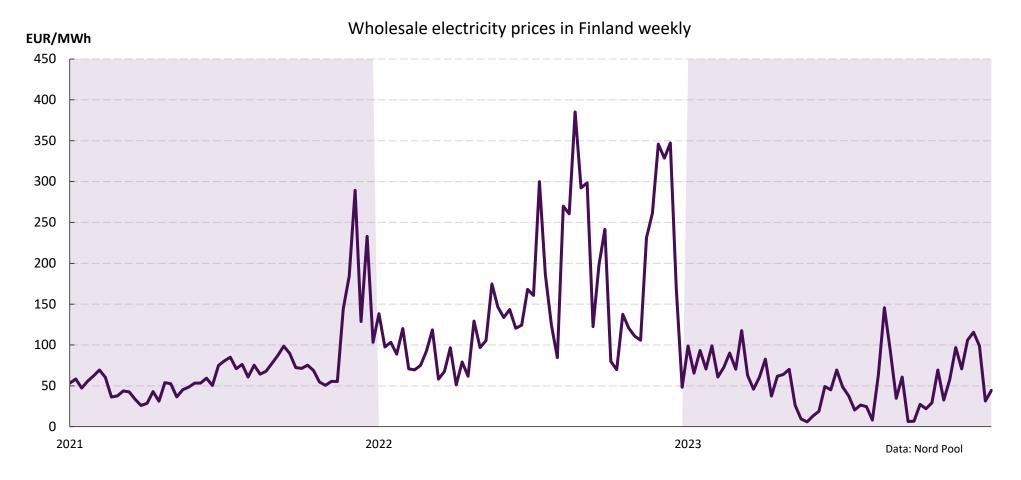
### Hydro reservoir balance in the Nordics



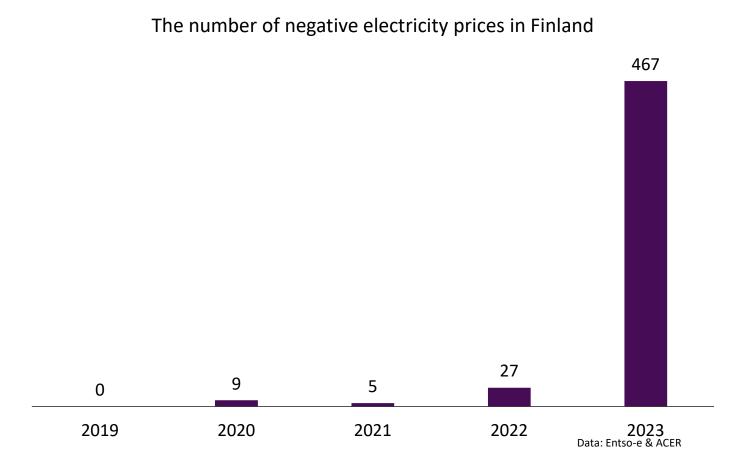
# The development of the nominal wholesale electricity price



## Weekly prices of electricity in 2021 to 2023

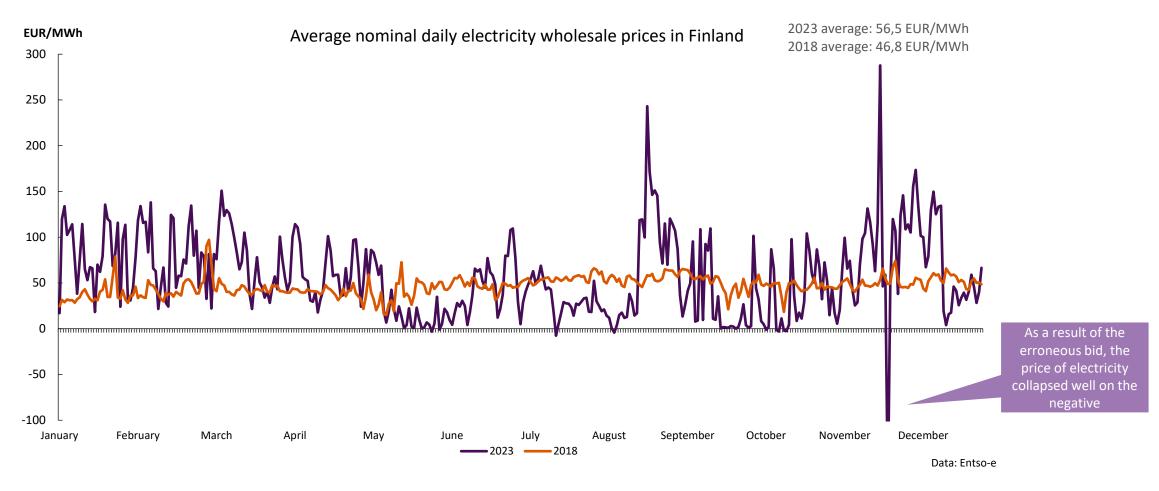


# The amount of hours with negative price has growed sharply

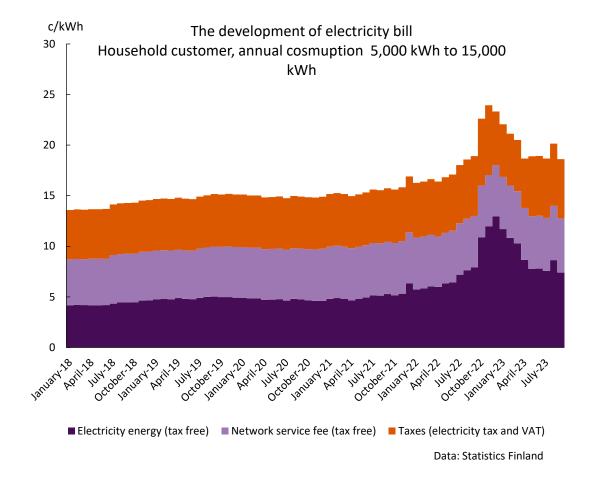


- The number of negative electricity prices has significantly increased due to the rapid growth of wind power.
- Low and negative electricity prices imcentivize investments in flexible demand, such as electric boilers connected to district heating networks, with electricity capacity soon exceeding 1 GW.

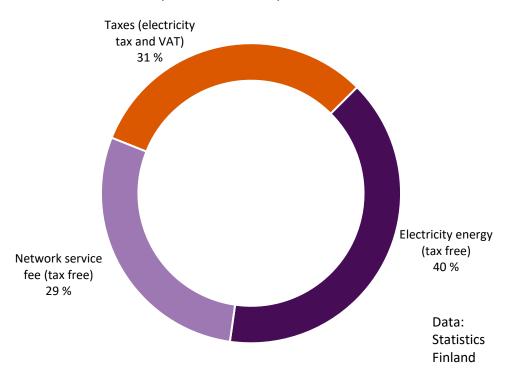
### **Electricity price fluctuations have increased**



## **Consumers' electricity bills have significantly decreased over the past year**



The shares of different components in the electricity bill for a household customer with an annual consumption of 5,000 kWh to 15,000 kWh



### Electricity price overlook: Prices in Finland and Sweden are significantly more favorable than in Central Europe

