



Stakeholder views on Nordic energy policies and strategies

# What kind of regulation is needed to meet the decarbonisation targets cost-efficiently?

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# Fortum in brief

## Our core

Hydro and nuclear  
Combined heat and  
power production  
Circular economy  
Energy-related  
products and expert  
services

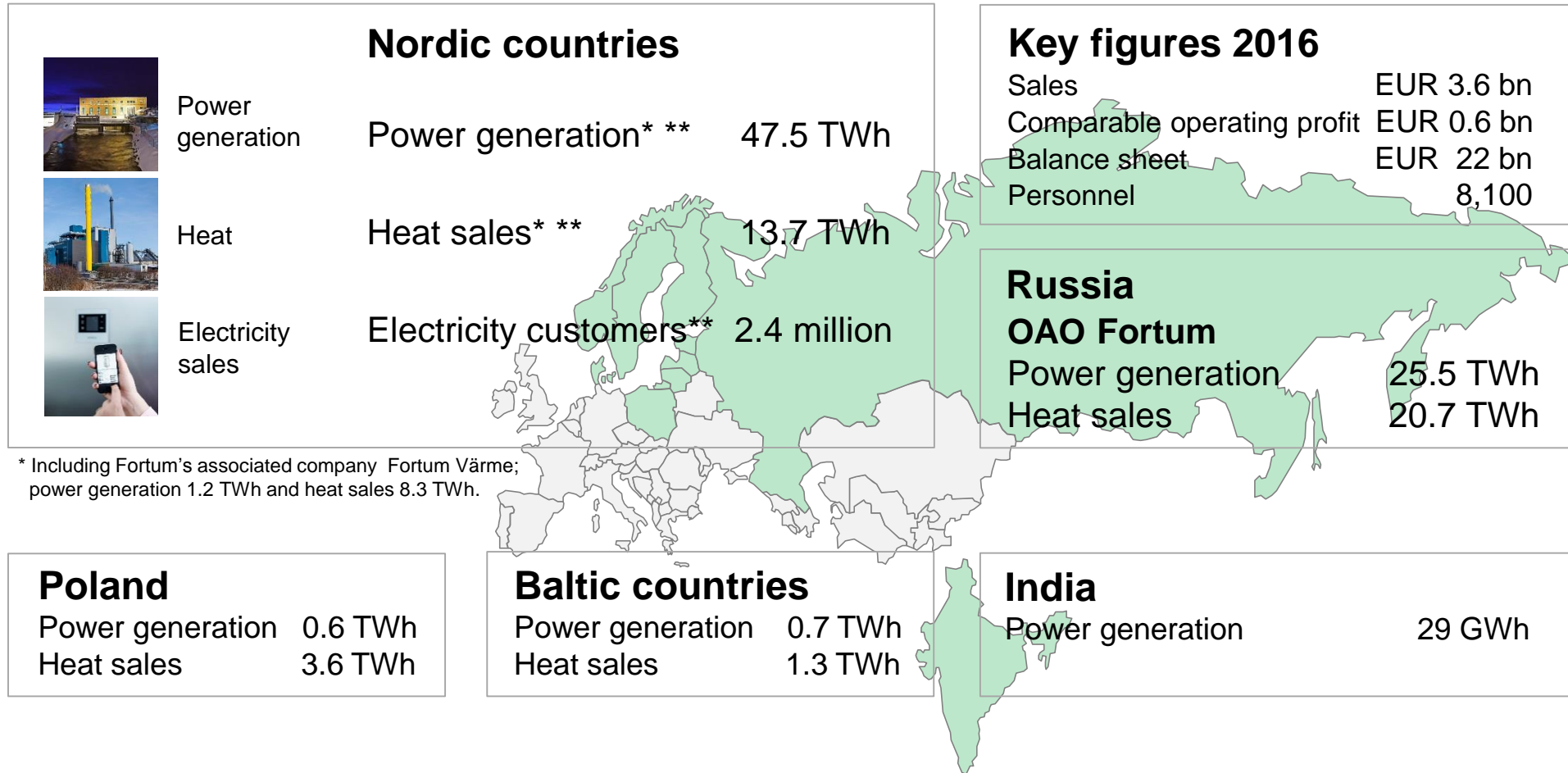
We are the largest  
electricity retailer in the  
Nordics with  
**2,4 million** customers.  
And one of the leading  
heat producers  
globally

**62%** of our  
electricity  
generation  
is CO<sub>2</sub>-free

**9000**  
professionals  
in the Nordics,  
the Baltics,  
Russia, Poland  
and India

**2/3** of our  
power  
production is  
**hydro and  
nuclear**

# Short presentation of Fortum as a Nordic company



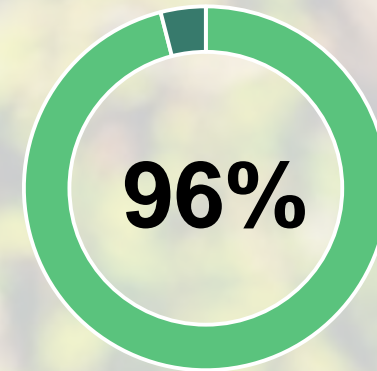
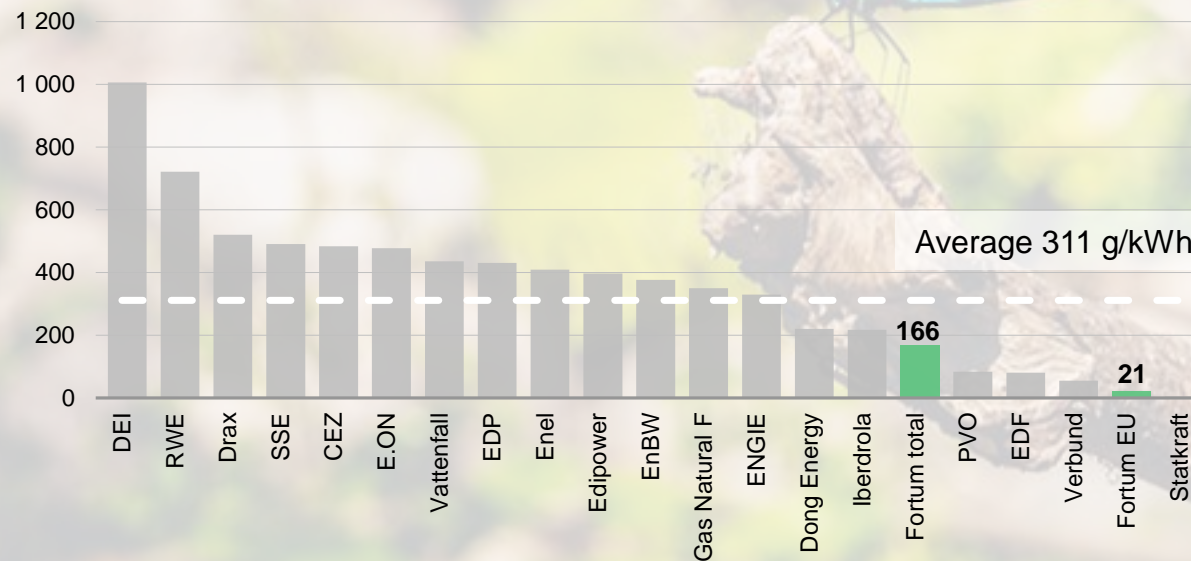


# Our carbon exposure is among the lowest in Europe

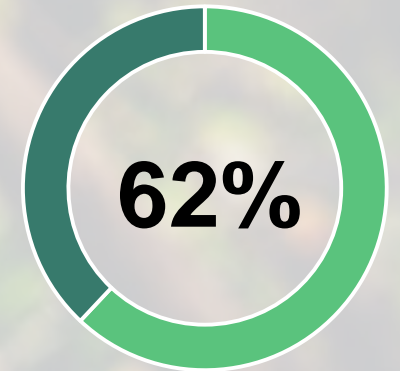
Fortum's specific emissions of the power generation in the EU in 2016 were 28 g/kWh and in total 173 g/kWh

Share of CO<sub>2</sub>-free power in Fortum's generation in 2016

g CO<sub>2</sub>/kWh electricity, 2015



Fortum in the EU



Fortum total

# Momentum for re-invigorating the Nordic Energy Cooperation – the "Ollila Report" – now we need an implementation plan

Common vision for  
the Nordic energy  
cooperation

Peer reviews and  
policy coordination

More strategic  
approach towards  
the EU

Optimisation of  
investment  
environment



# Electricity market development – how to continue the success story?

Getting ready for the high-RES future: demand response, real-time pricing, digitalised customer solutions, regional grid planning...

Nordic principles for the regional market design – a reference for regional market design in Europe

Towards a pan-Nordic retail electricity market

Nordic Stakeholder Forum to advise policy makers on power market development



# Decarbonisation: How to meet CO2 target cost-efficiently

- EU ETS to be the key driver in the ETS sectors
- Rapid finalisation of the ETS reform
- Prevent overlapping policies from diluting the ETS (Governance)
- Strong Nordic voice in Brussels



# Decarbonisation: How to meet the RES target cost-efficiently

- Phase out subsidies from competitive RES technologies and let the EU ETS drive in the ETS sectors
- If still used, clear preference for technology neutral, competitive and regional rather than national systems
- Additional measures might be useful in non-ETS sectors



# Decarbonisation: How to meet the energy efficiency target cost-efficiently

- Timing of energy consumption becoming more important than the amount of energy consumed
- ★ Flexibility through voluntary measures
- Competition between different heating methods
- Electrification of transport
- ETS to drive in the ETS sectors



# Key take-aways

Better reliance on market mechanisms: ETS and competitive regional electricity market

Decisions and policy choices made in one country will have an impact on other countries in integrated and interconnected regional power market

Moving from national to regional solutions would help to increase cost-efficiency





# Thank you!