Decarbonizing the Energy sector from an operator's perspective

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We are one of the cleanest power generators in Europe – with a strong Nordic focus.

Our core business – reliably delivering clean energy – is more important than ever. We help societies to reach carbon neutrality and our customers to grow and decarbonise their processes in a reliable and profitable way, in balance with nature. This is how we create value also to our owners, employees and communities.



Fortum's power generation and heat production by source

Fortum's power generation in 2023 Nuclear power 53% Waste 27% Total Waste, bio 1% power generation Coal 1% 47.0 TWh* Natural gas 8% Oil 1% Heat pumps, Hydropower 45% electricity 17%

Fortum's heat production in 2023



Target: no coal in the fuel mix in 2028



The 3D model: decarbonization, diversification, digitalization



Fortum Poland way to decarbonize energy production

2024

- WtE + coal in Zabrze
- 60% Energy from coal
- 40% Energy from RDF



2028

- WtE + Biomass in Zabrze
- 70% Energy from biomass
- 30% Energy from RDF
- CO₂ emission reduced by 70% (~200 000 t)

- Bio + coal in Częstochowa
- 70% Energy from coal
- 30% Energy from biomass



- Biomass in Częstochowa
- 100% Energy from biomass
- CO₂ emission reduced by 99,9% (~175 000 t)



Fortum Poland way to decarbonize energy production

• Waste heat utilization from sewage, data centers etc. by using high efficiency heat pumps



Sewage Heat pump in Wrocław



 Waste heat recovery from data center in Wrocław

• Electrification of peak heat sources by electrode boilers installation



Heat pump in Wrocław

Wrompa will recover heat from untreated wastewater and feed it into the district heating system that distributes it in Wrocław.

Iceland Liechtenstein Norway grants



Recycling heat from data center to district heating

Path for the use of waste heat in the implementation of emission-neutral district heating



