Michael Strebl

What does it take to decarbonise the 5th largest city in the European Union?

WIEN ENERGIE

We supply 2 million people with electricity, gas, heating and cooling

1.25 billion euros investment by 2026

leading energy

Electric charging stations every 400 metres Austria's

Excellent credit rating confirmed by "AA" rating

Austria's largest provider solar power producer

Energy from 900,000 tonnes of waste

District heating for more than 420,000 households

31 citizen power plants

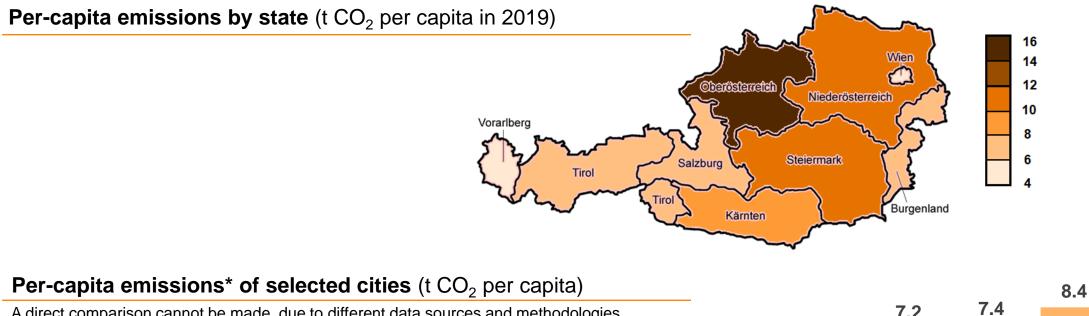
Our power plants stabilise the grid – up to 240 times per year

2,297 employees

One new photovoltaic system every week



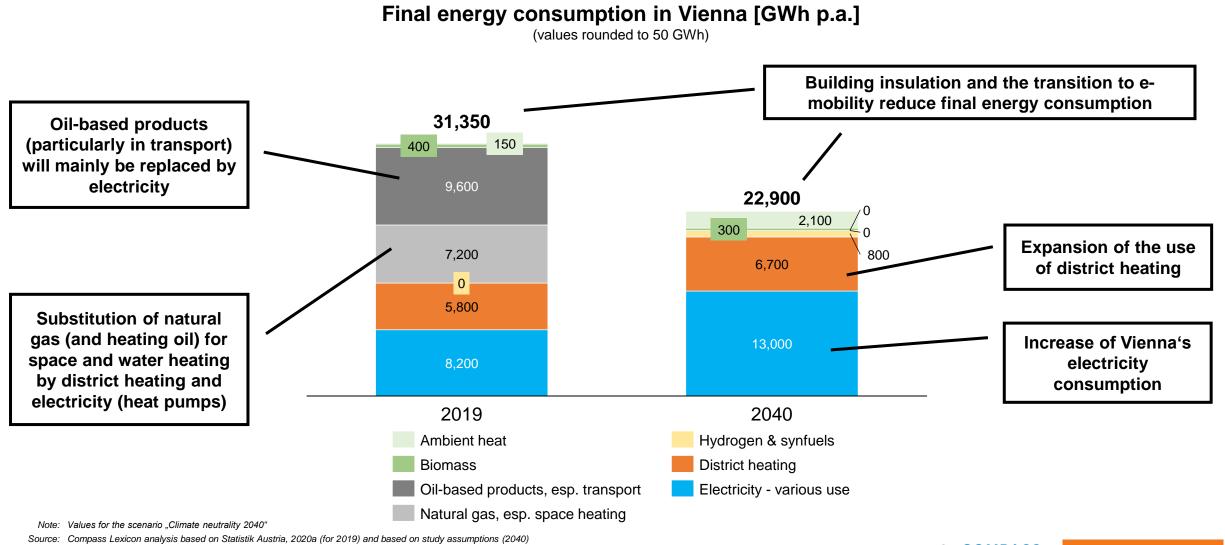
In comparison to other cities, Vienna is well positioned, both nationally and internationally





* Including the EU ETS, as well as buildings, transport, industry and waste, ** data for the waste sector are not available

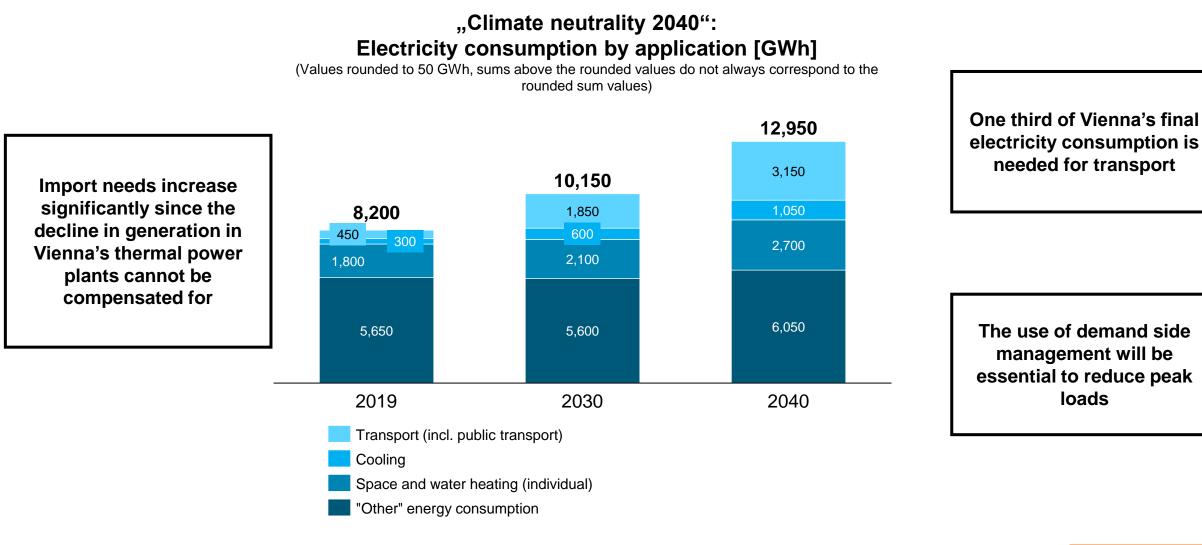
Climate neutrality by 2040: reduction of energy use and fuel switching



25.07.2023



Vienna's electricity consumption increases by more than 4 TWh by 2040

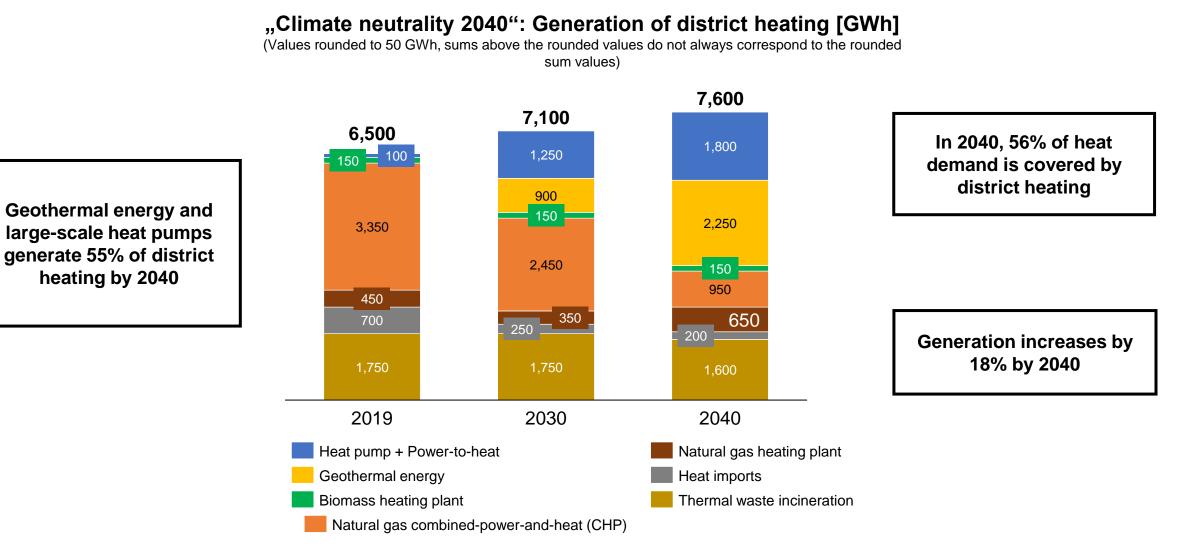


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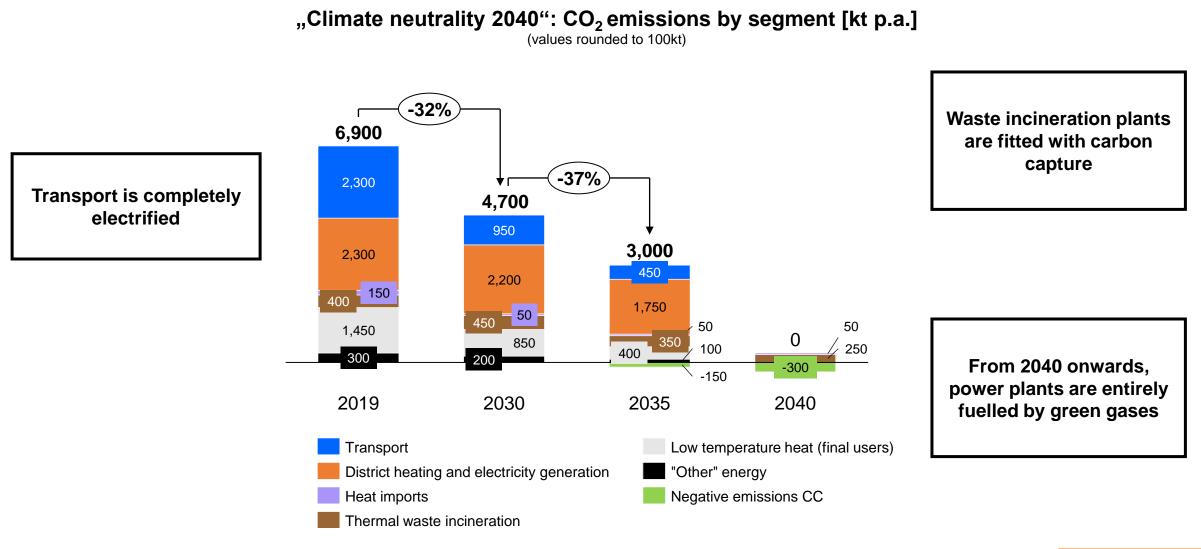
District heating is essential for achieving decarbonisation



© Wien Energie



The adoption of e-mobility, district heating, heat pumps and carbon capture make zero emissions by 2040 possible

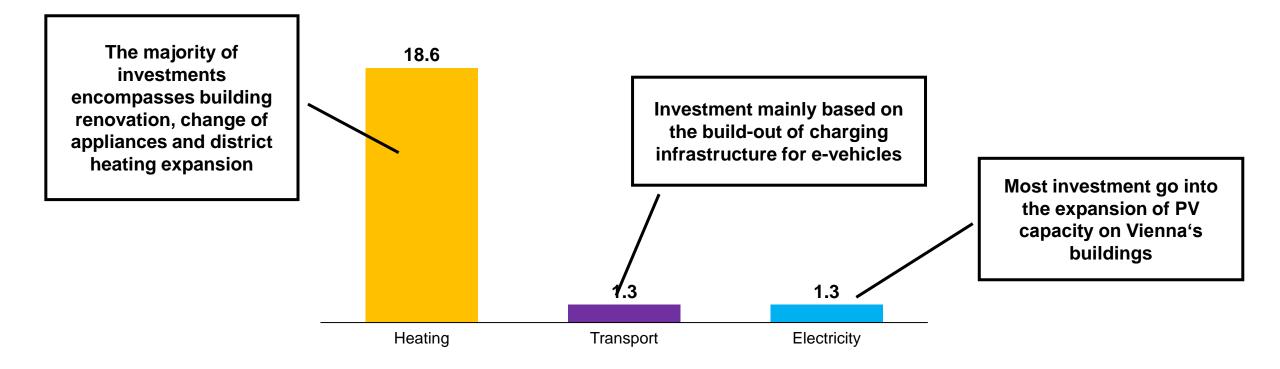




21.2 billion to achieve for climate neutrality in 2040

Investment in the Viennese energy system to achieve climate neutrality by 2040 [EUR₂₀₂₁ bn]

(in the sectors included in the study excl. electricity grid)



Notes: Values for the scenario "climate neutrality 2040"; results rounded to 100 mln EUR₂₀₂₁, values correspond to the non-discounted sum over the years 2022 to 2040 Investment needs in the electricity grid were not separately analysed, nevertheless necessary grid charges were included.

Source: Compass Lexecon based on study assumptions



~2 billion to phase out gas

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Full Power for the Climate

Wien Energie invests close to two billion euros to phase out gas

25.07.2023



Wien Energie will invest a total of 1.8 billion euros for climate protection by 2028:

- 500 million euros in renewable heating projects & circular economy
- 740 million euros in the expansion of renewable power generation
- 190 million euros in environmentally friendly cooling supply & district heating expansion
- 240 million euros in digitisation, electromobility and telecommunications
- 130 million euros in security of supply



Milestones for climate neutrality in 2023







Europe's most powerful large-scale heat pump (ebswien sewage treatment plant):

- **56,000 households** will be supplied from mid-2023.
- 110 MW capacity in full expansion by 2027.

Vienna's first deep geothermal plant:

- construction starts in 2023 scheduled commissioning in 2026
- Annual savings potential of 325,000 tonnes of CO2 at full expansion (2030)

Worldwide first test of blending 15% hydrogen in existing infrastructure:

- Pilot project converting one of AT's largest gas turbines in a CHP station to run partly on H₂
- Annual saving potential of 33,000 tonnes of CO₂





Hydrogen Strategy at Wiener Stadtwerke

Bringing future technology hydrogen to market maturity as first fully integrated solution

WE cover and optimise the entire value chain

- Production of renewable energy
- Green hydrogen (EE H2) production
- Provide EE H2 concepts & products to:
 - mobility customers
 - industry partners
- Supply of our power plants
- Feeding-in to existing gas grid





Green Hydrogen at Wien Energie

Flagship Projects: Hydrogen-Mobility



25.07.2023

- Establishment of a green H₂ production infrastructure in Vienna
- Construction of a second H₂ refuelling station in Vienna Simmering
- First external customers refuel commercial vehicles
- Establishment of H₂ refuelling infrastructure in Vienna Leopoldau for busses of WIENER LINIEN and partners
- Testing of a hydrogen fuel cell bus of WIENER LINIEN





What does it take?

a precise plan and a roadmap for its step-by-step implementation full commitment of the management



Wer, wenn nicht wir. 🗲 WIEN ENERGIE

LILLE

WIENER LINIEN | WIEN ENERGIE | WIENER NETZE | WIENER LOKALBAHNEN | WIPARK | WIEN IT BESTATTUNG WIEN | FRIEDHÖFE WIEN | UPSTREAM MOBILITY | FACILITYCOMFORT | GWSG

WIENER STADTWERKE GRUPPE

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