

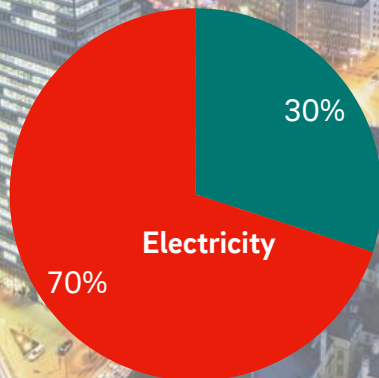
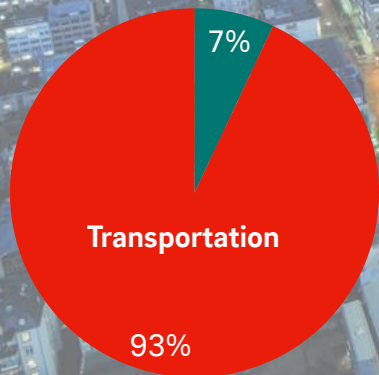
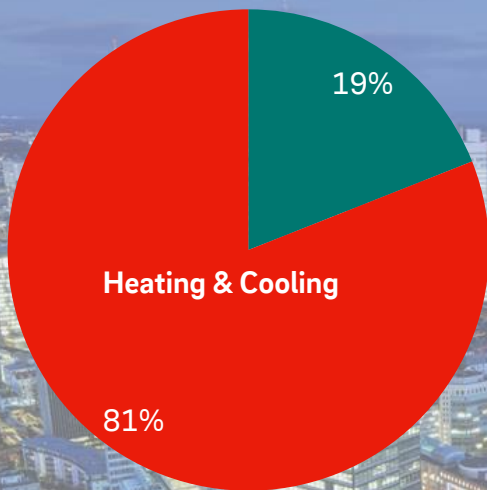
Melanie Shaffu
City Energy Solutions
E.ON SE

Heat sector decarbonisation

The way forward

e.on

Renewables share in
sectors in EU-28
2016, in %



**Urban Heat
supply with the
highest
potential to
meet local CO2-
targets –
Evolution of
technological
and regulatory
environment is
key**



Berlin
-60%
2030

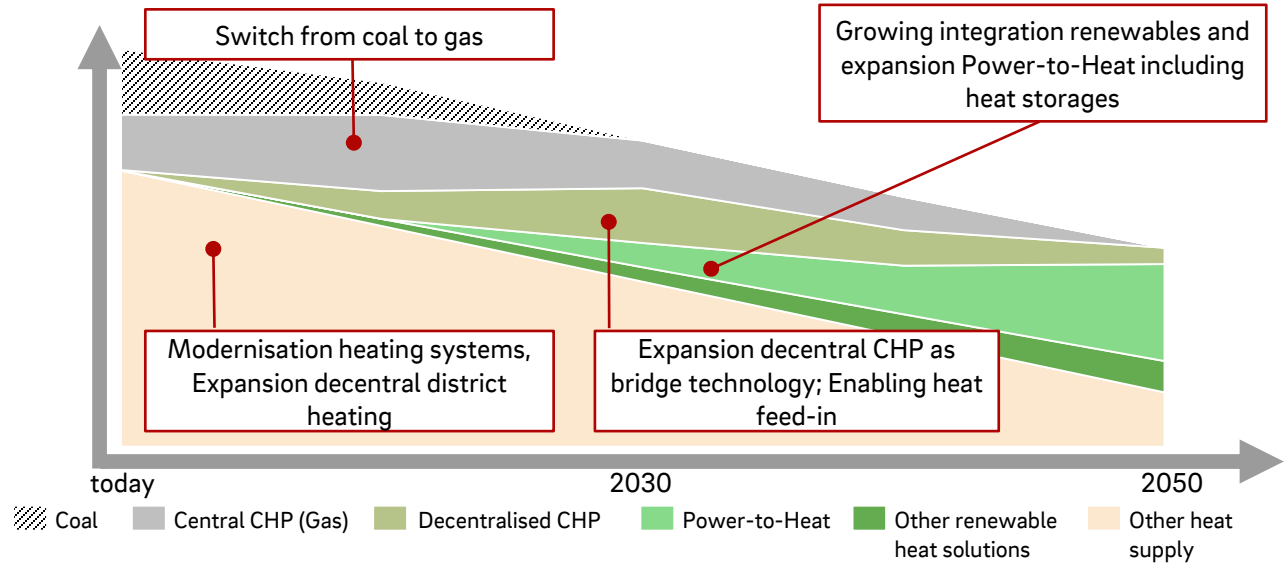
Public
administration
CO2-free
2030

Berlin
-85%
2050

Switch will not be easy – How a successful evolution path of a city could look like

Development of urban heat supply

SCHEMATICAL



ENERGIEKONZEPT BERLIN TXL

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Berlin-Tegel: Integrated and flexible energy concept for heating and cooling

Key points

- Decentral energy production with PV, Geothermal, CHP and waste water heat
- LowEx heating and cooling network (flow temperature max. 40°C/ return temperature max. 20°C) as energy hub
- Enabling of prosumer feed-in
- Decentral heat pumps for providing higher and/or lower temperatures



B-Gemeinschaft E.ON SE und Berliner Stadtwerke GmbH

E.ON experience enables to define and implement solutions on individual/local basis

City supply



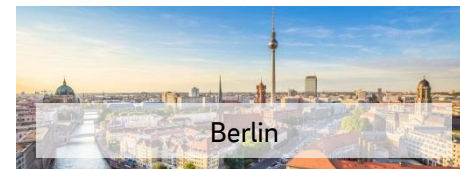
Sustainable energy solutions to reach local climate targets

City quarter solutions



Integrated district solutions based on LowEx concepts

Single-site-solutions



Innovative technologies (e.g. power-to-heat) in decentral object solutions



Thank you

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