

Climate neutral city by 2030
Green Heat in Mannheim:
Decarbonizing energy
hands on

**First Deputy Mayor
Christian Specht,**
City of Mannheim

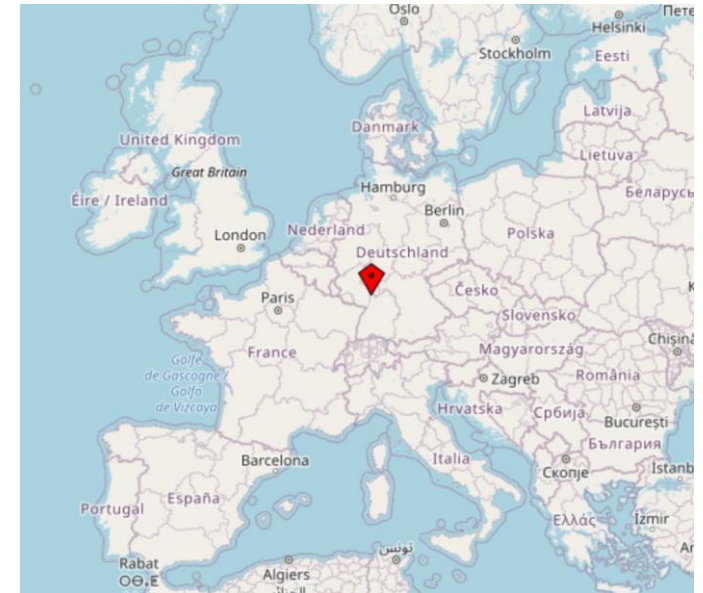
IURC: greener urban future
WUF June 27, 2022



THE CITY OF MANNHEIM

Mannheim 320 000
Metropolitan Region 2 500 000

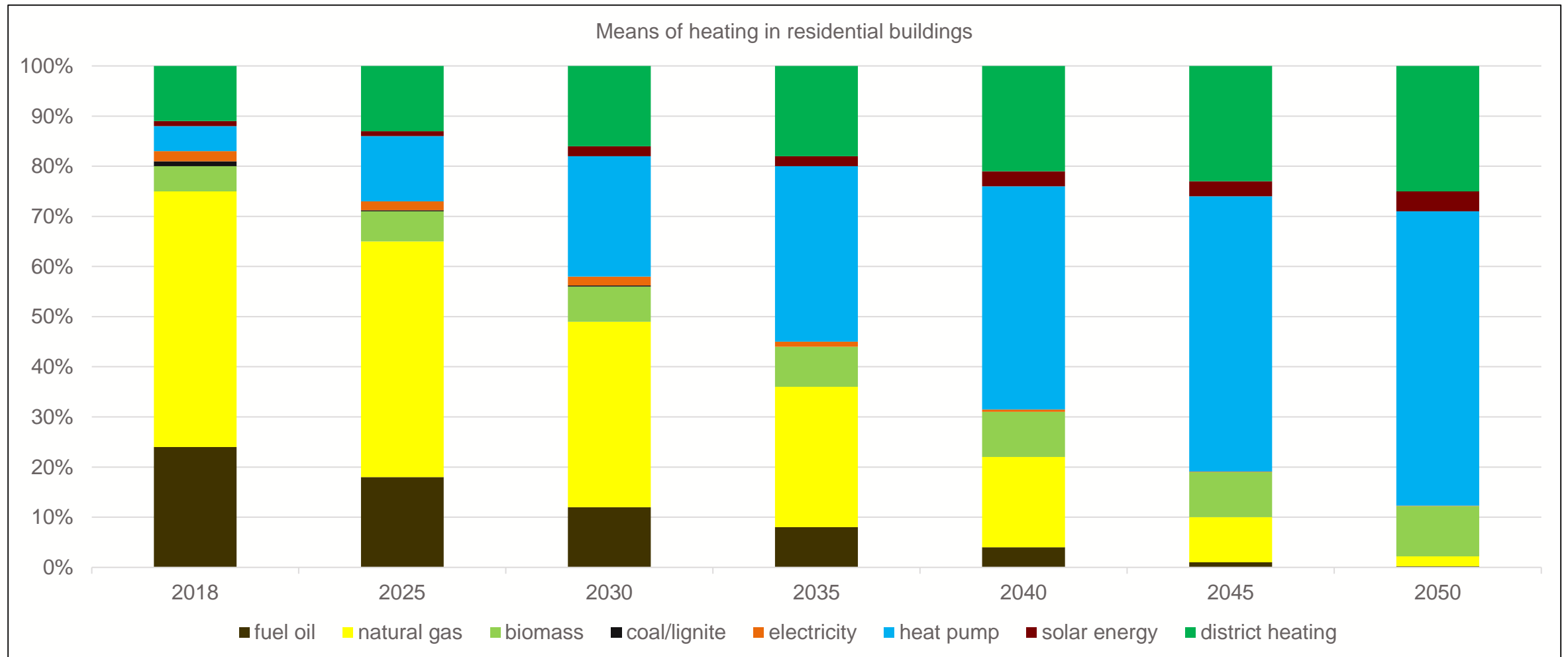
Mannheim as an industrial city



achieving climate neutrality



MEANS OF HEATING IN RESIDENTIAL BUILDINGS



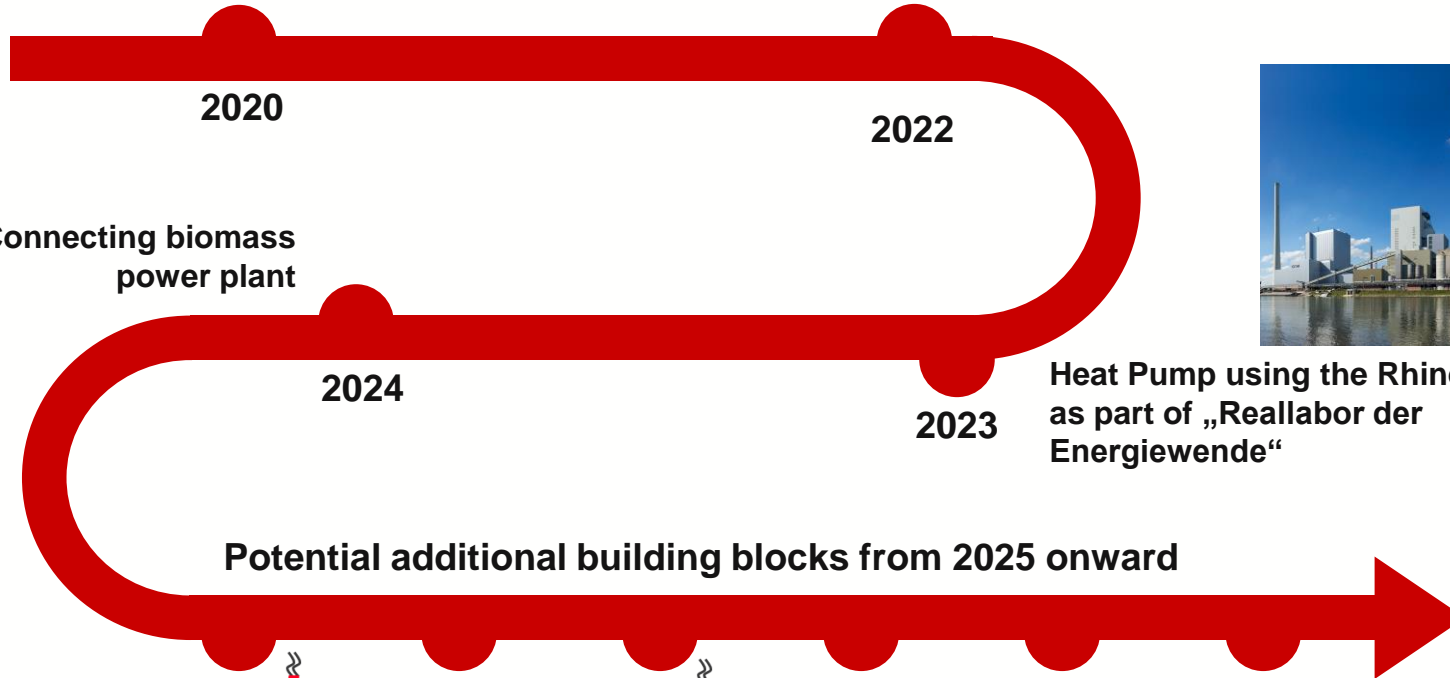
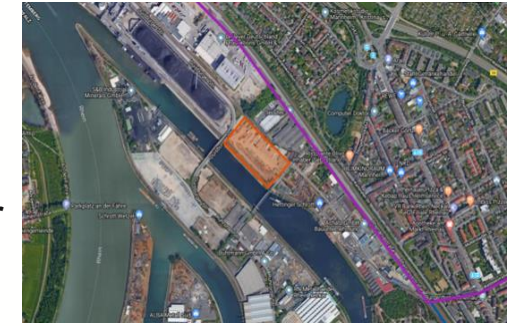
source: Prognos, Öko-Institut, Wuppertal-Institut (2020)

FROM THE FIRST STEPS TO AN ALL-GREEN HEATING SUPPLY



Connecting facilities at Friesenheimer Insel to the DH grid

Commissioning of facilities for peak load and fallback heat generation using natural or green gases



Connecting biomass power plant



Heat Pump using the Rhine as part of „Reallabor der Energiewende“

Potential additional building blocks from 2025 onward



Waste heat HKW



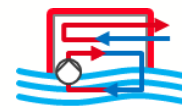
Geothermal energy



Further biomass plant



CHP using biofuel



Heat pumps



Power-to-Heat

THE MANNHEIM MODEL: 3 ASPECTS OF A CLIMATE POSITIVE FUTURE

Heat turnaround



We are Germany's third-largest district heating supplier and are using green heat at all our locations. In Mannheim and the region, we will convert our district heating supply to 100 % green energy sources by 2030 at the latest.

Electricity turnaround



We are maintaining a high pace in expanding renewable energies. We already doubled our proprietary renewable energies generation volumes between 2010 and 2016 and intend to do so again by 2026.

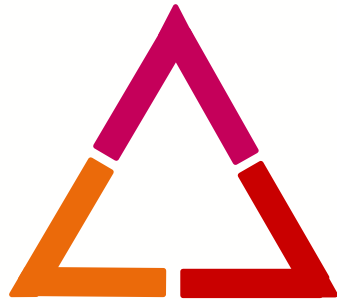
Customer solutions



Our "green" products and services facilitate climate neutrality for and by our customers, whether they are private households, businesses, industrial players or real estate and retail customers.

BENEFITS

climate-neutrality of district heating through diverse generation portfolio



guarantee of reliable heat supply

district heating as attractive and economic way of heating

RISKS



new technology: large-scale heat pump at the Rhine river



CHALLENGES

The technical transformation path should be financed by using a mixture of public funding, private capital and income.

But mayor challenges remain:

- 1. Which instruments are available to mobilise private capital to change private heating installations?**
- 2. How can the local level (cities etc.) profit from CO2 emission trading system?**

World Urban Forum

Monday, June 27, 2022

IURC networking event

**International Urban and Regional Cooperation to rethink
sustainable urban and innovative models for a greener and better
future**

City of Mannheim, Department I

First Deputy Mayor Christian Specht

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