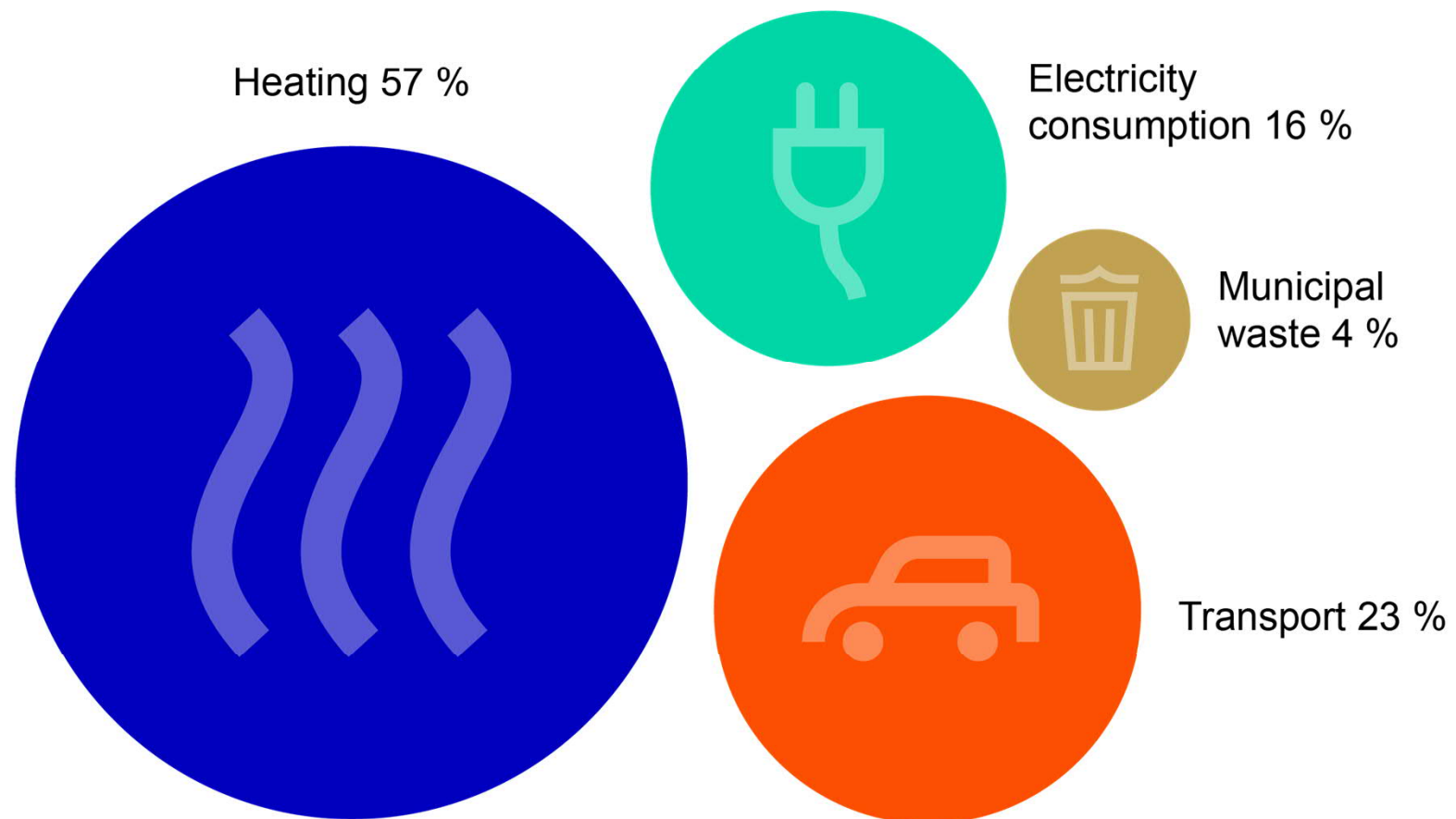





Helsinki Energy Challenge

Helsinki

Emissions in Helsinki





**How can we decarbonise
the heating of Helsinki,
using as little biomass
as possible?**

Helsinki: carbon-neutral by 2035

**Finland: no coal in energy production
from 2029**

**53% of our urban heat is now produced
with coal**

Creating the future of heating to fight global warming

- Find a solution for Helsinki and share with other cities
- Inviting innovators from all over the world
- 1 000 000 euro award

Helsinki





**We welcome
a diversity of
teams
and solutions**



Benefits of joining the Challenge

- Opportunity to make a real difference to sustainability worldwide
- One million euro prize
- Possibility to use Helsinki as a testbed and then, to scale up
- Coaching and support to develop the solution

Why Helsinki?

- We are dedicated to cleaner and smarter cities
- We are 100% on board
- We play fair
- We are just the right size
- We are cold

Helsinki





Timeline

27 February – 30 September

Application phase

April-September

Helsinki Energy Challenge
webinars & other events

14 September

All clarifying Q&A published at the Challenge
website

30 September 16:00 EET

Deadline for applications

6 November

Finalist teams invited to join the
co-creation phase of the Challenge



11 November

Orientation webinar for finalist teams

9-11 December

Boot camp in Helsinki for finalist teams

22 January 2021

Finalist teams to submit their
final competition entries

February 2021

Winner(s) selected by the international jury

March 2021

Awards ceremony

Evaluation criteria

Proposed solutions are evaluated based on:

- Climate impact
- Cost impact
- Impact on natural resources
- Capacity
- Implementation schedule
- Implementation feasibility
- Reliability and security of supply

A high profile jury will select the winner

Helsinki



Hans Jørgen Koch

CEO, Nordic Energy Research



Markku Ollikainen

the Chair of the Finnish Climate Change Panel, Professor of Environmental and Resource Economics, University of Helsinki



Sanna Syri

Professor, Energy Technology and Energy Economics, Aalto University

A high profile jury will select the winner

Helsinki



Brian Vad Mathiesen

Professor, Department of Planning,
University of Aalborg



Martin Young

Senior Director, Scenarios and Business Insights,
World Energy Council



Robert Stoner

Deputy Director of Science and Technology,
MIT Energy Initiative

More information:

energychallenge.hel.fi

Next event: 20 August

energychallenge.hel.fi/events-and-webinars

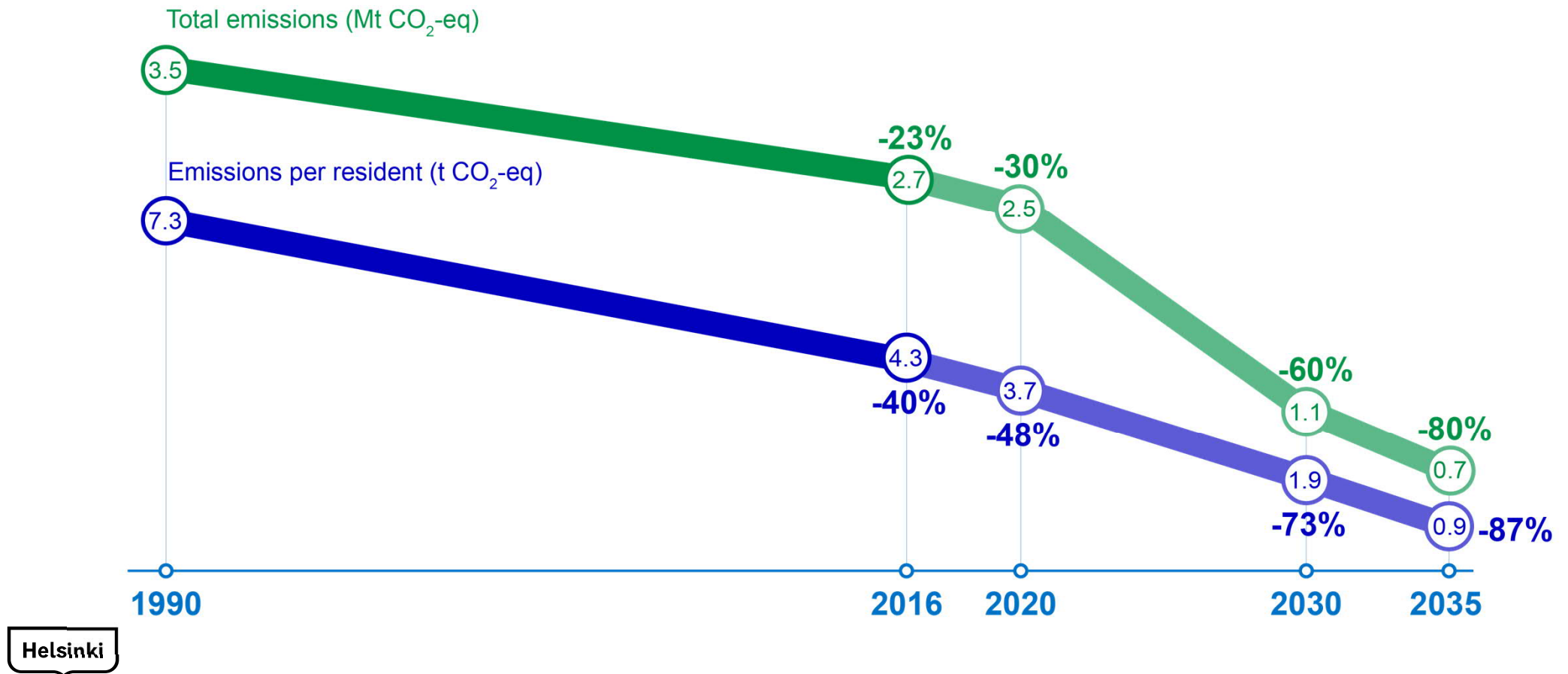
Collaboration Platform – *support for team formation & networking:*

www.hec.solved.fi

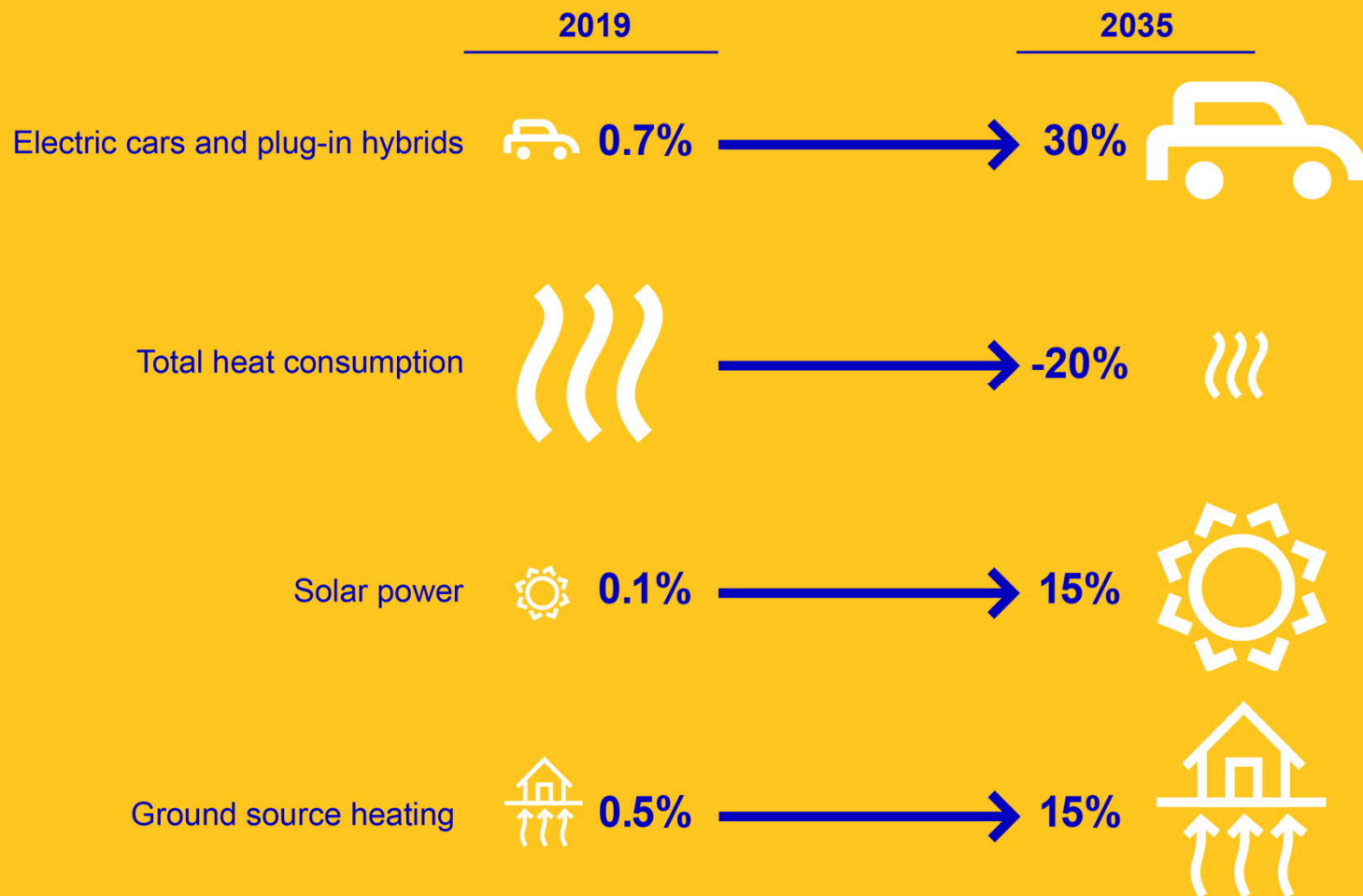
The current district heating system in Helsinki:

Key facts & figures

Helsinki is set to be carbon neutral by 2035.



What does this mean in practice?





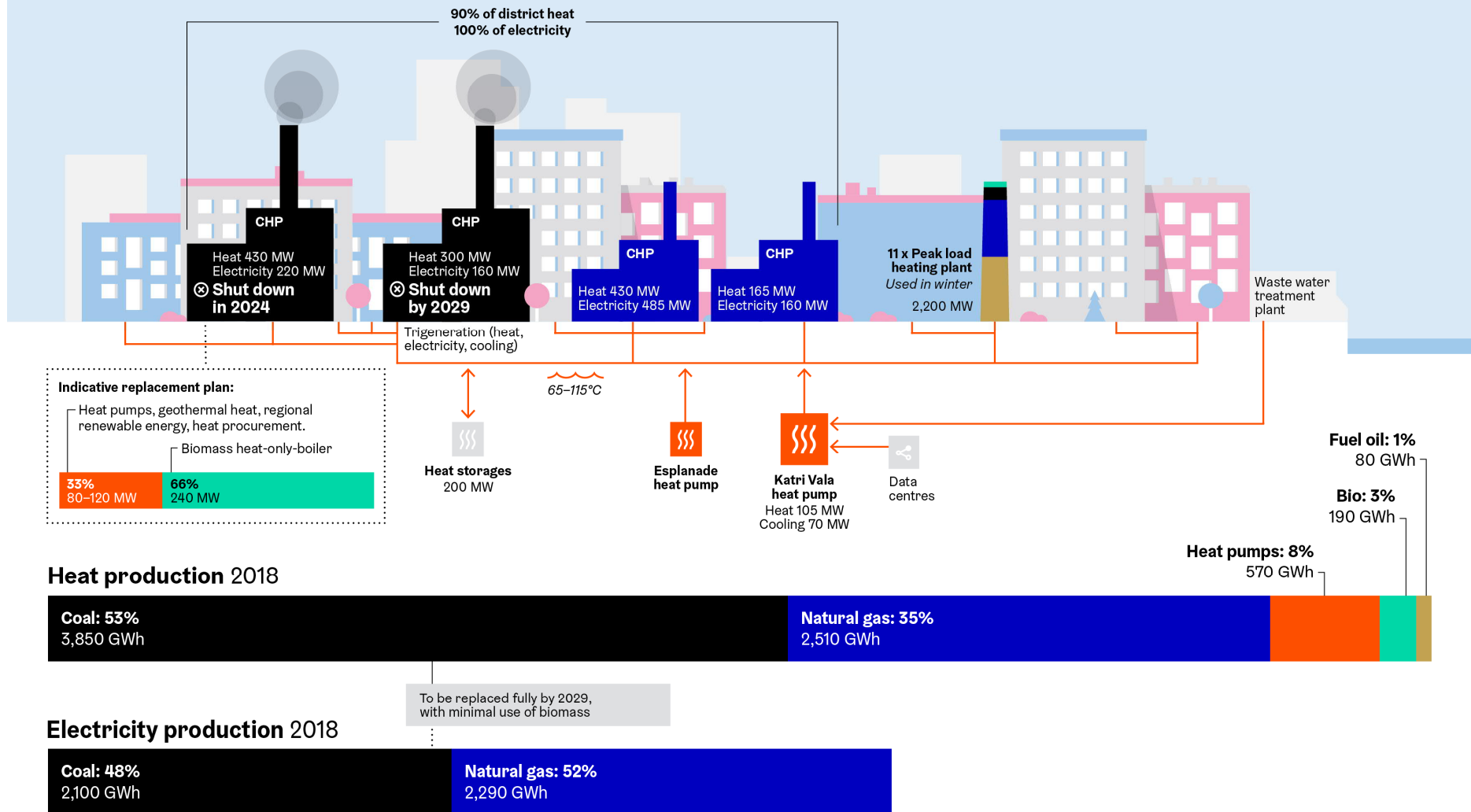
Energy renaissance

Helsinki

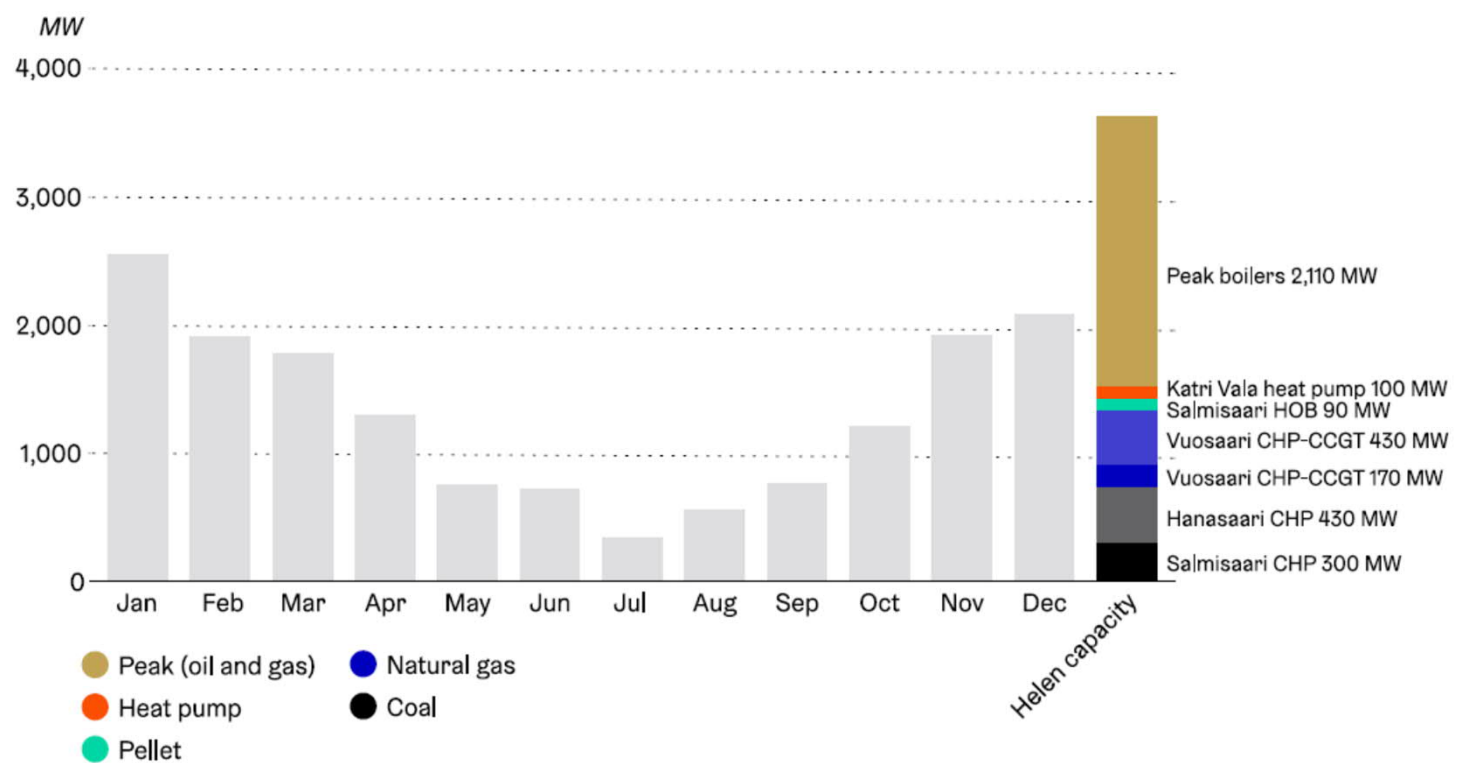
Energy system in Helsinki

operated by city-owned energy company Helen

Helsinki



Heat production capacities and monthly peak loads in Helsinki



Thank you.

energychallenge.hel.fi