

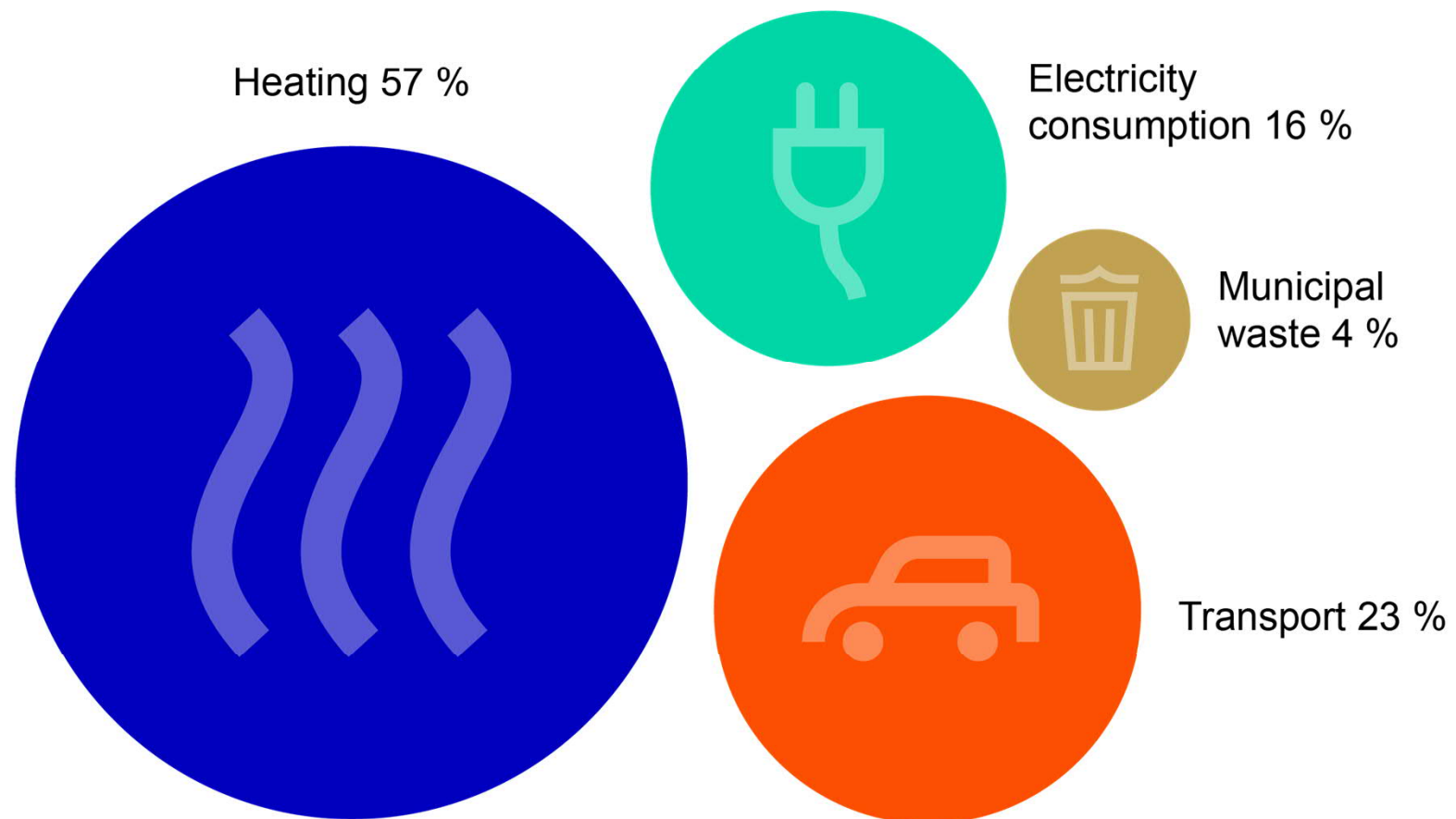



# Helsinki Energy Challenge

Live broadcast 4 May 2020

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](https://energychallenge.hel.fi)**

Join our webinars & other online events:

**[energychallenge.hel.fi/events-and-webinars](https://energychallenge.hel.fi/events-and-webinars)**

Collaboration Platform:

**[www.hec.solved.fi](https://www.hec.solved.fi)**

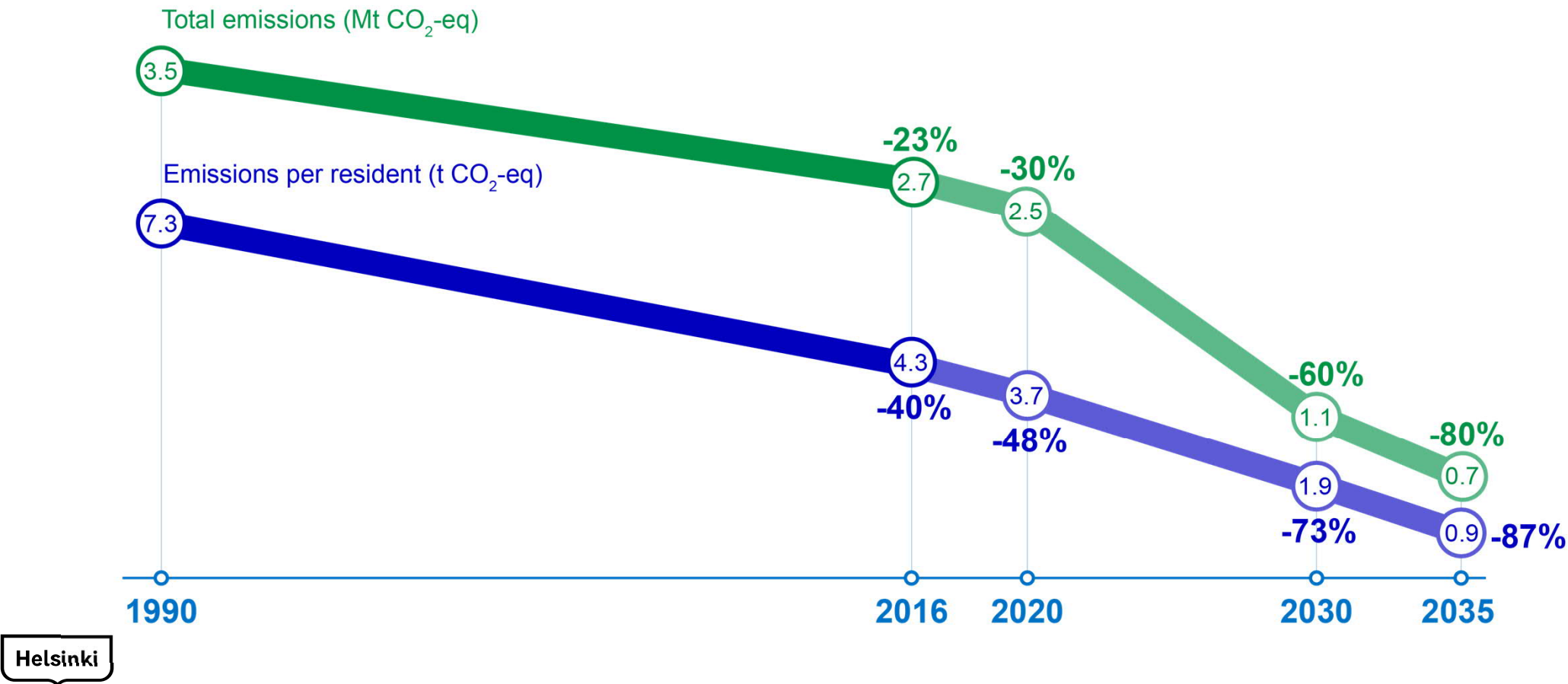
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# The current district heating system in Helsinki:

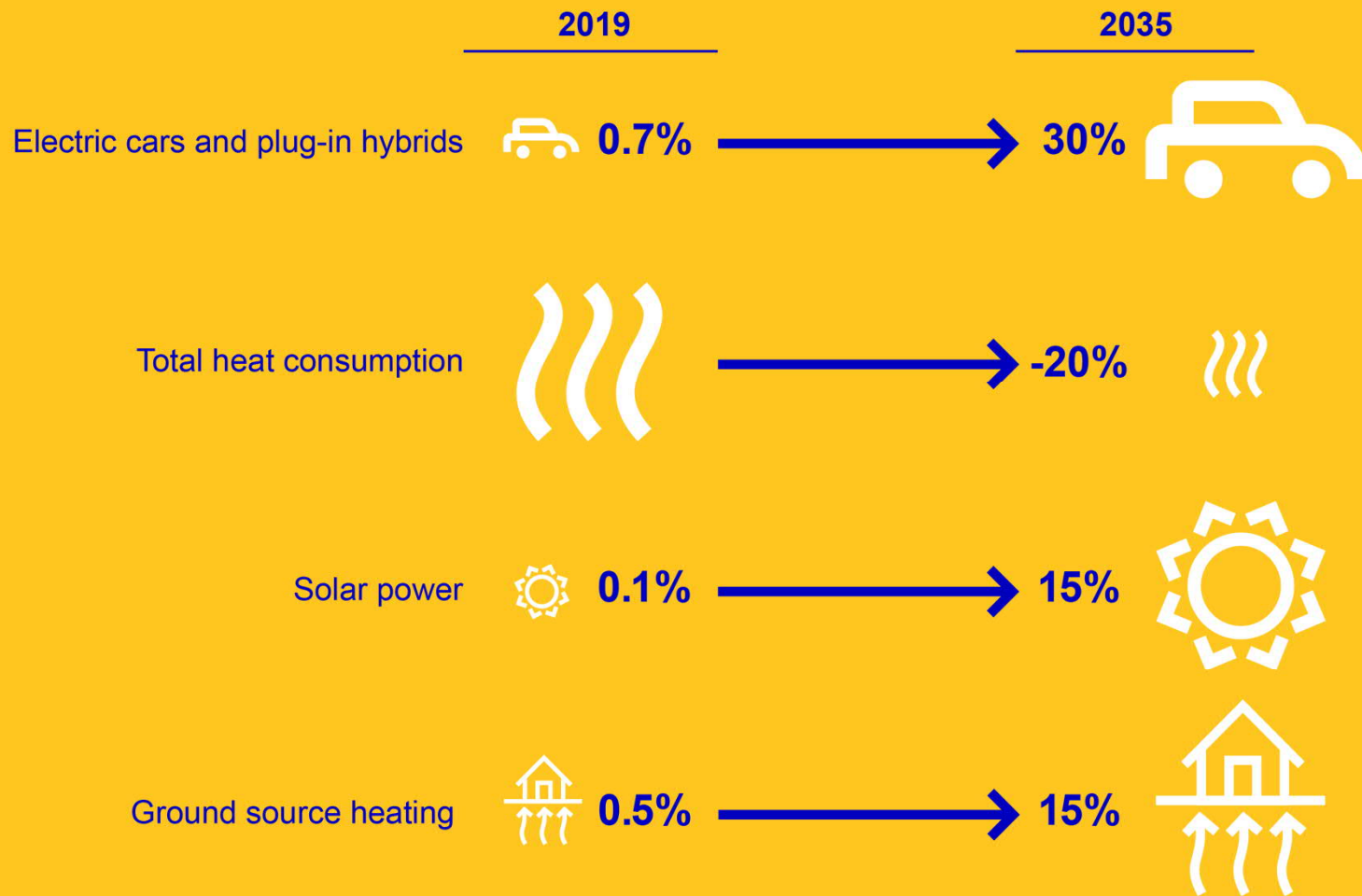
## Key facts & figures



# Helsinki is set to be carbon neutral by 2035.



# What does this mean in practice?





## Energy renaissance

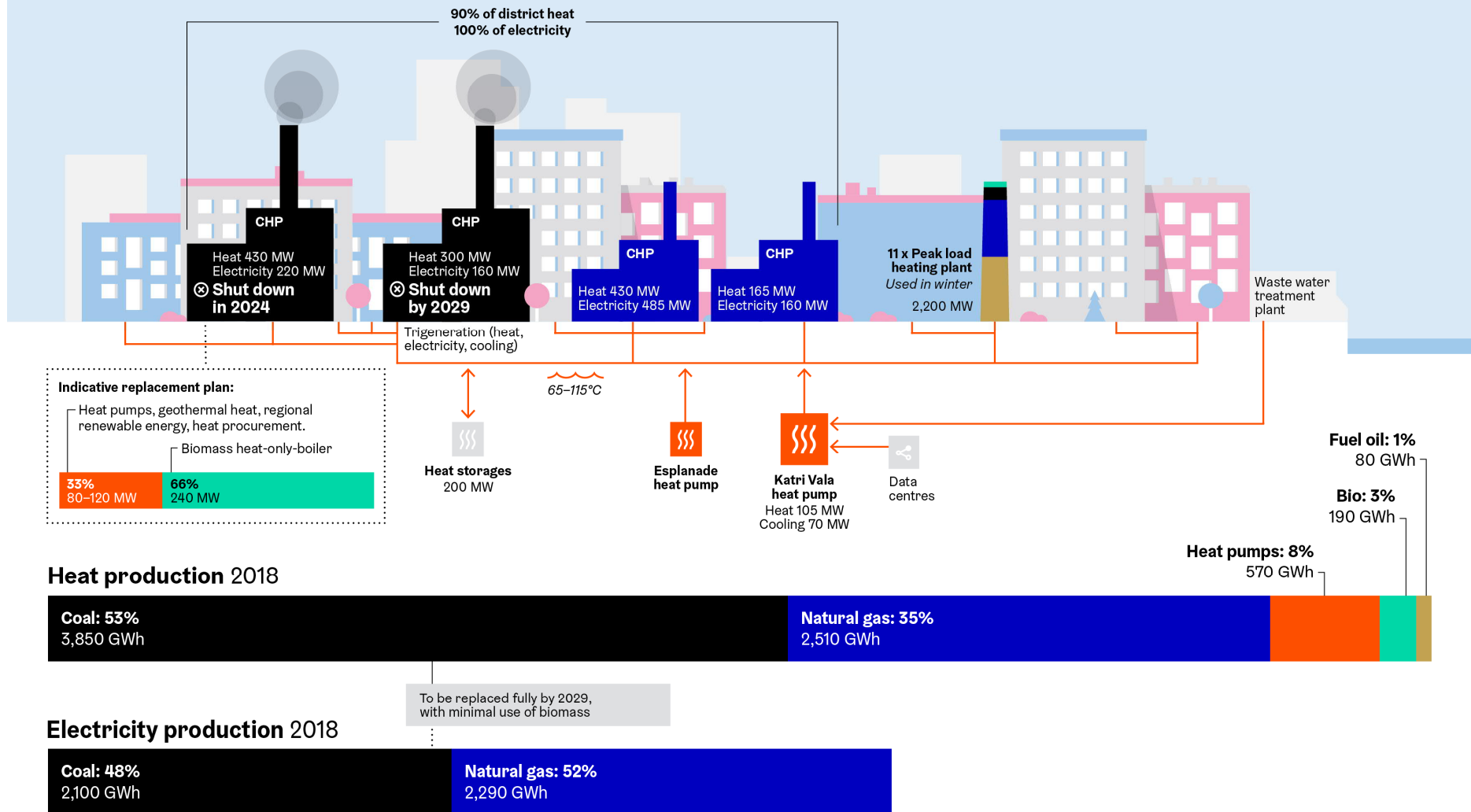
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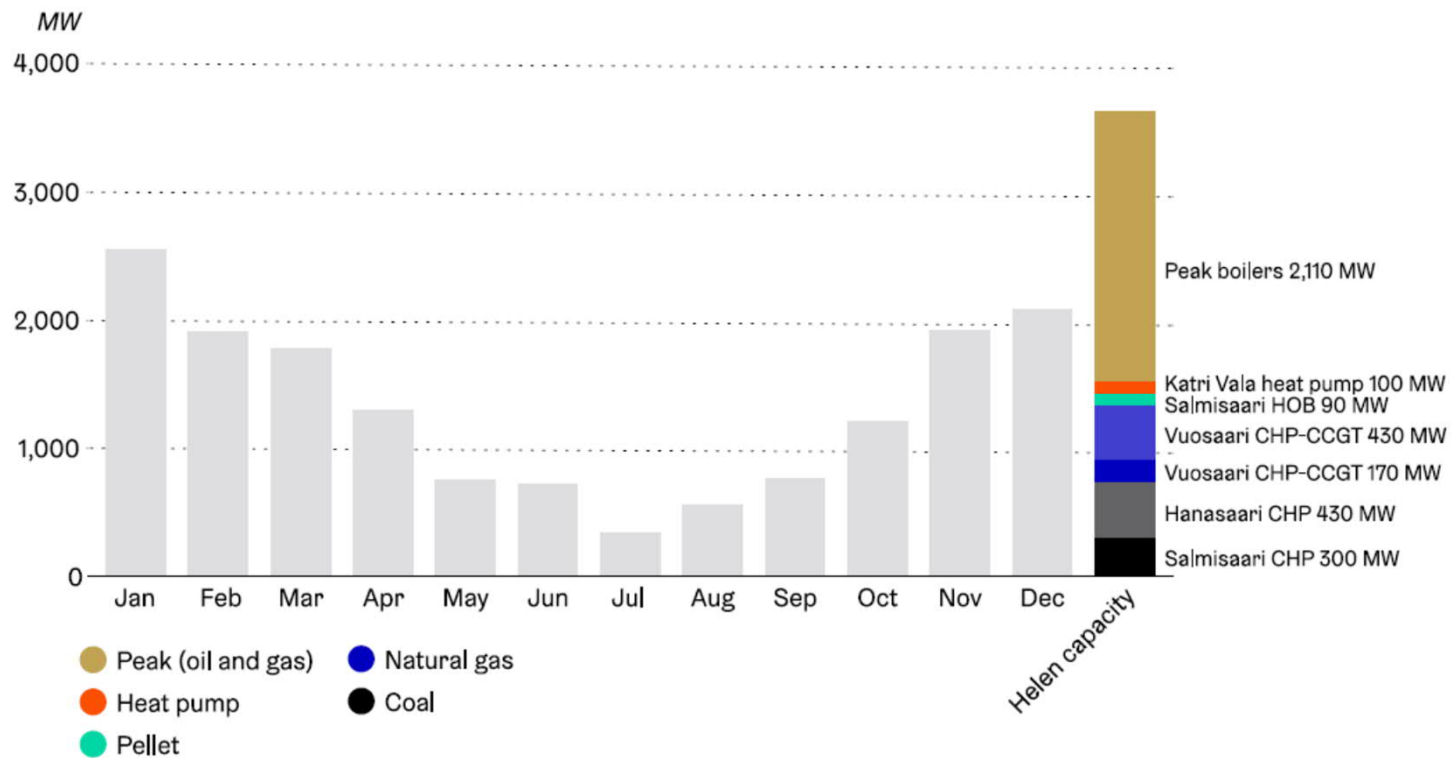
# Energy system in Helsinki

operated by city-owned energy company Helen

Helsinki



# Heat production capacities and monthly peak loads in Helsinki



# Thank you.

**[energychallenge.hel.fi](https://energychallenge.hel.fi)**