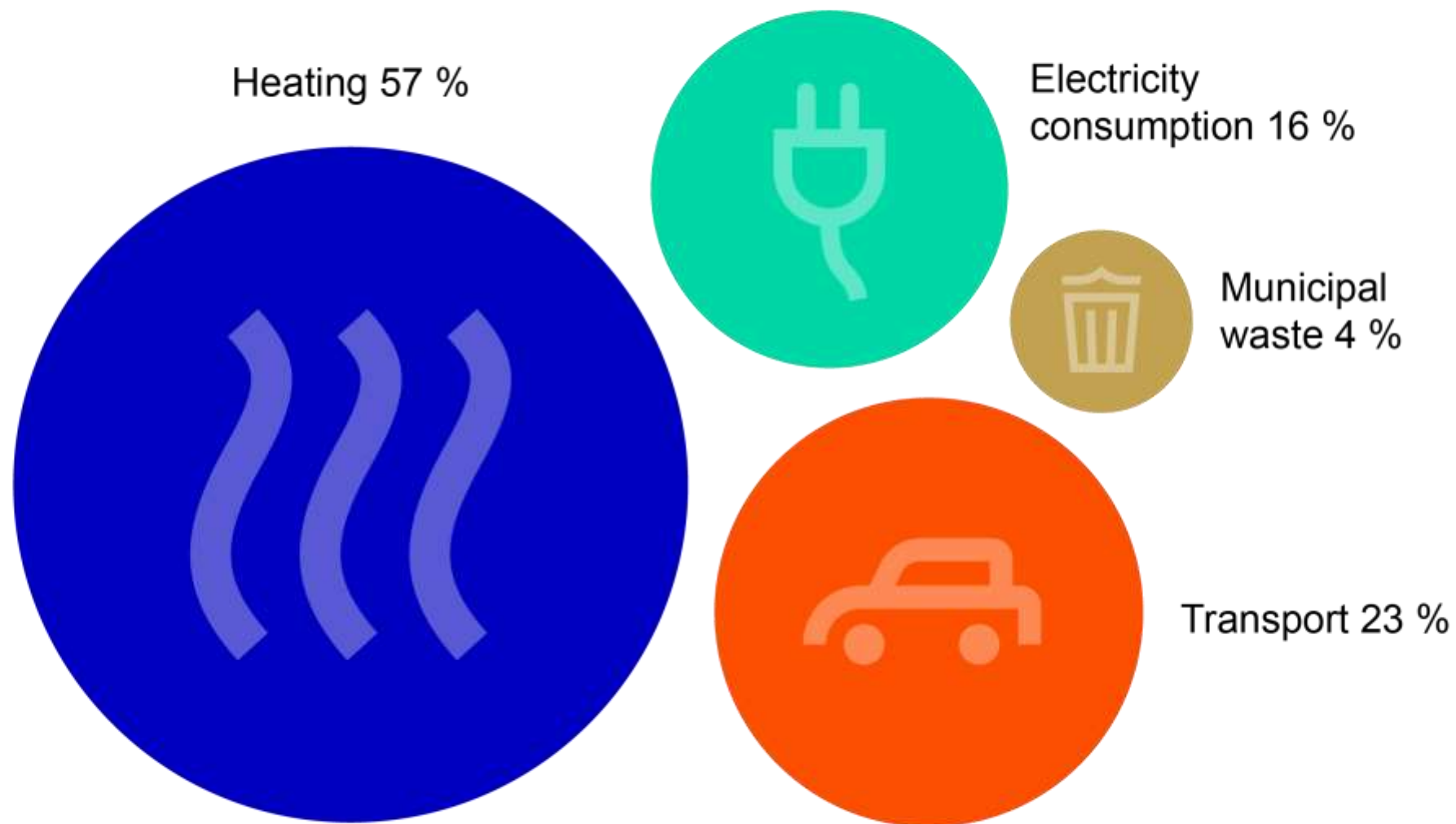




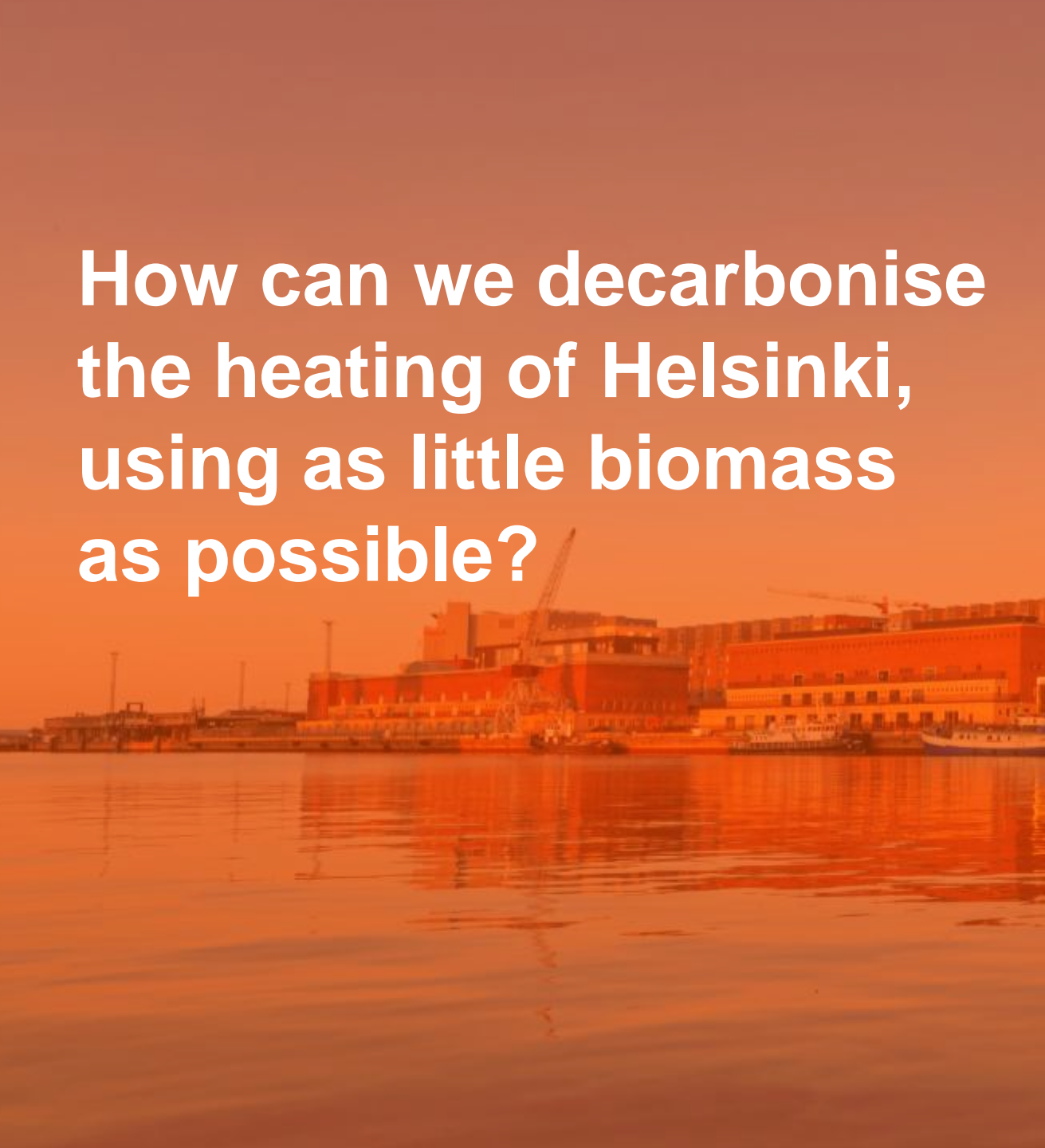
# Helsinki Energy Challenge

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



# 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 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



**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 & subscribe to our newsletter:

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

Collaboration Platform:

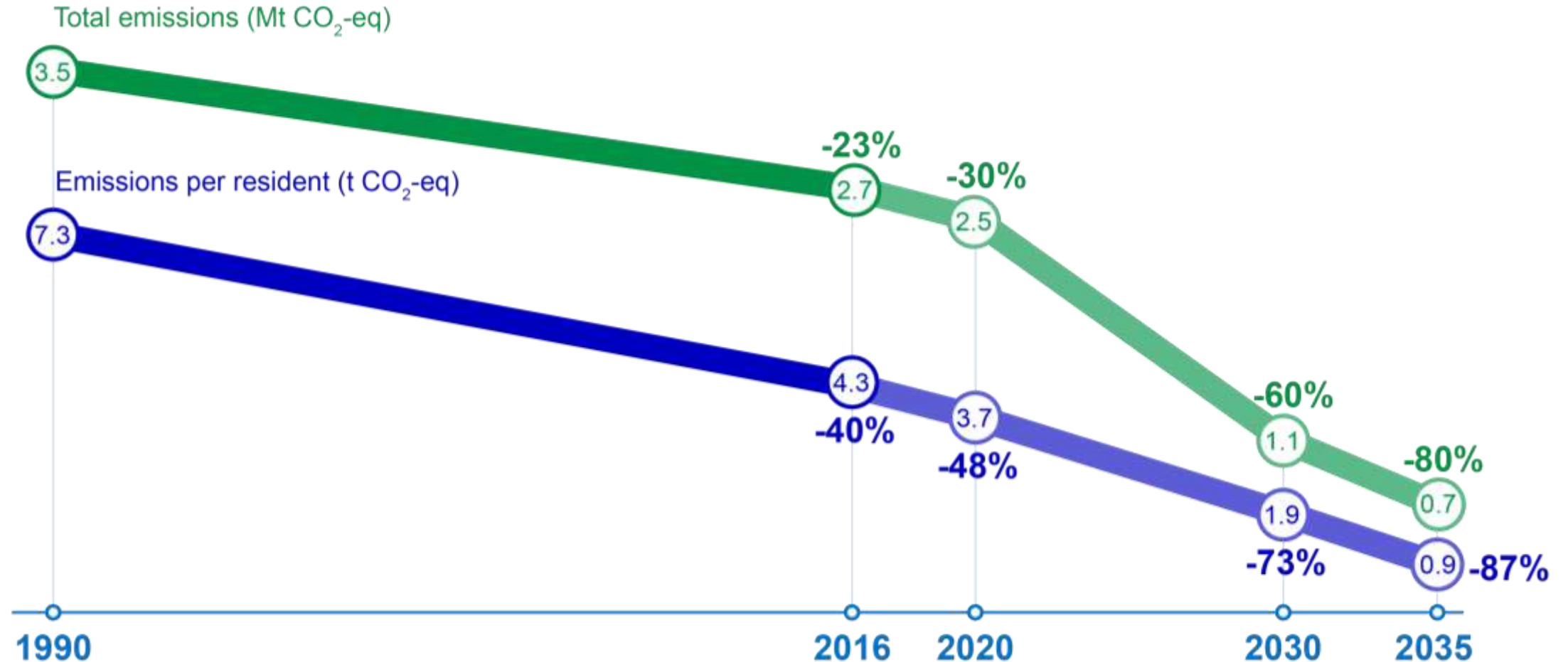
**[www.hec.solved.fi](https://www.hec.solved.fi)**



# The current district heating system in Helsinki:

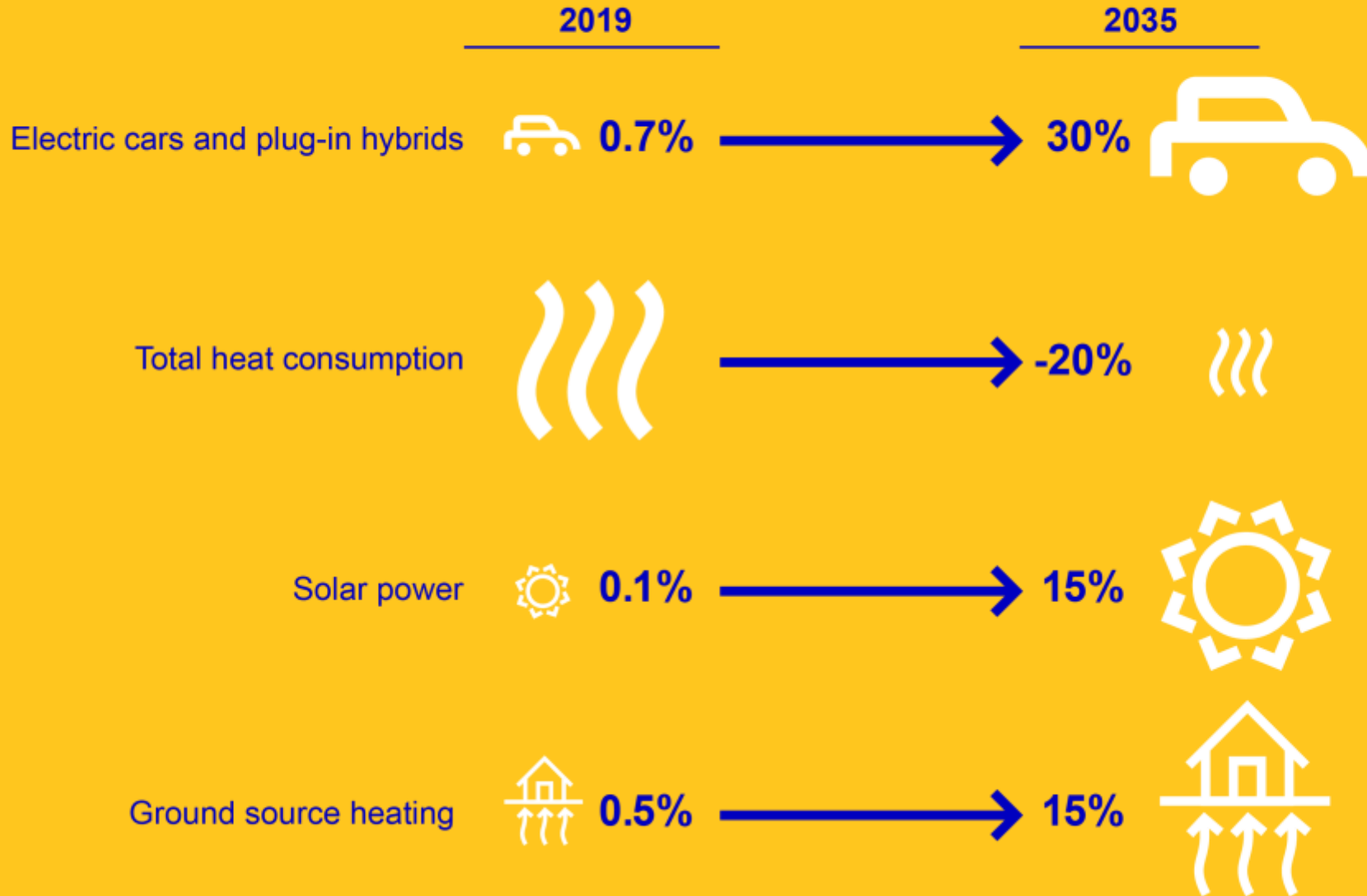
## Key facts & figures

# Helsinki is set to be carbon neutral by 2035.





# What does this mean in practice?



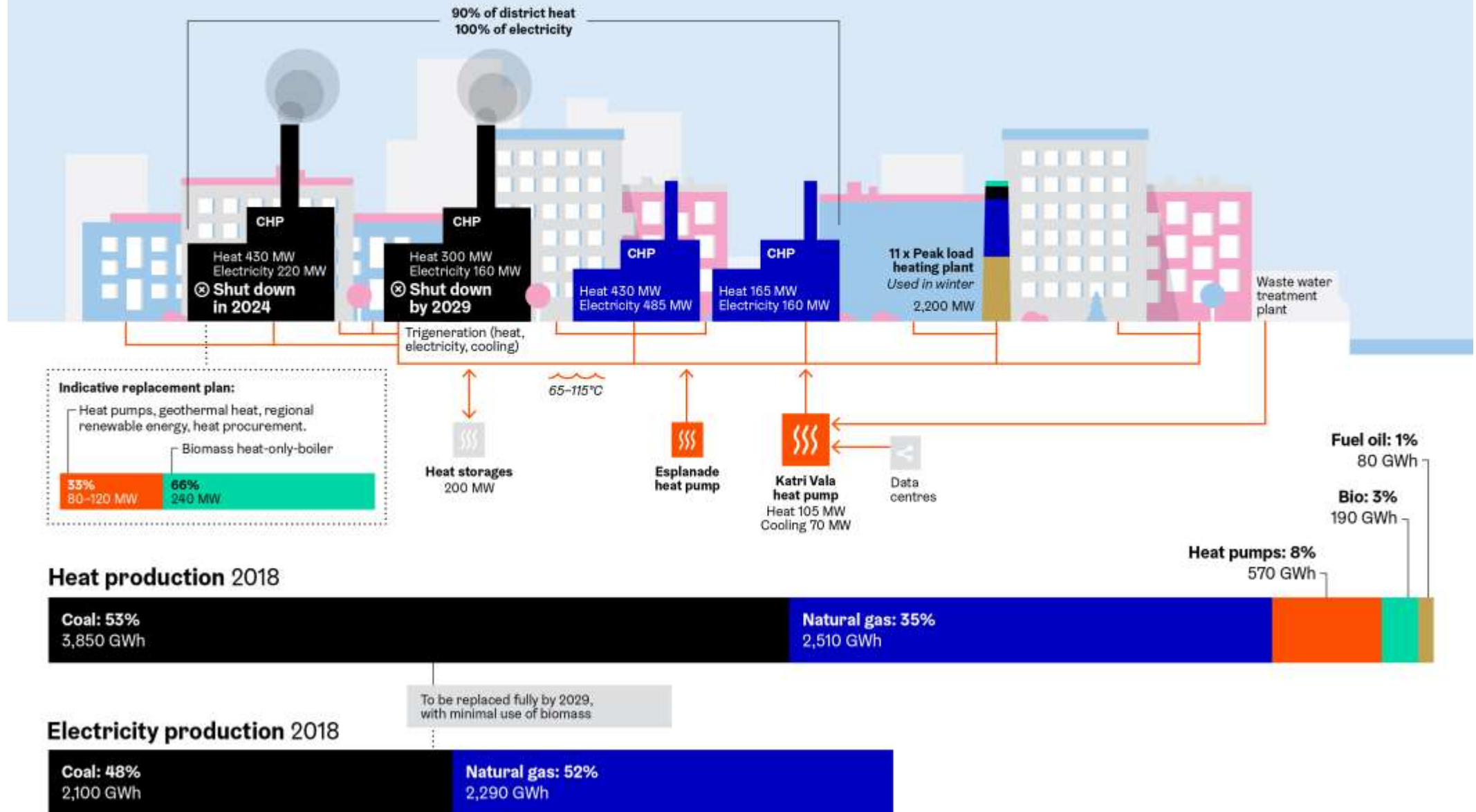


## Energy renaissance

# Energy system in Helsinki

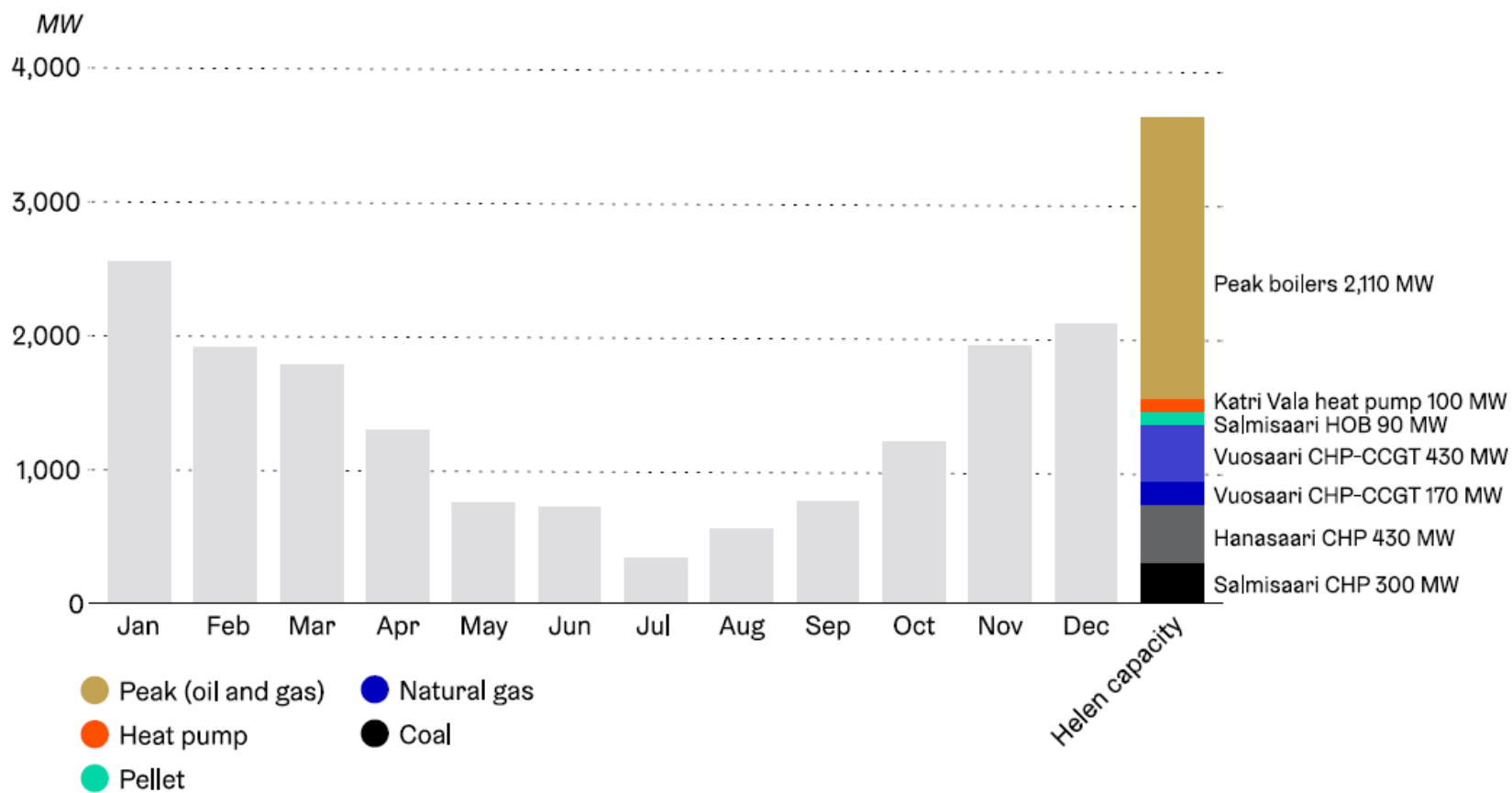
operated by city-owned energy company Helen

Helsinki





# Heat production capacities and monthly peak loads in Helsinki



# Thank you.

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