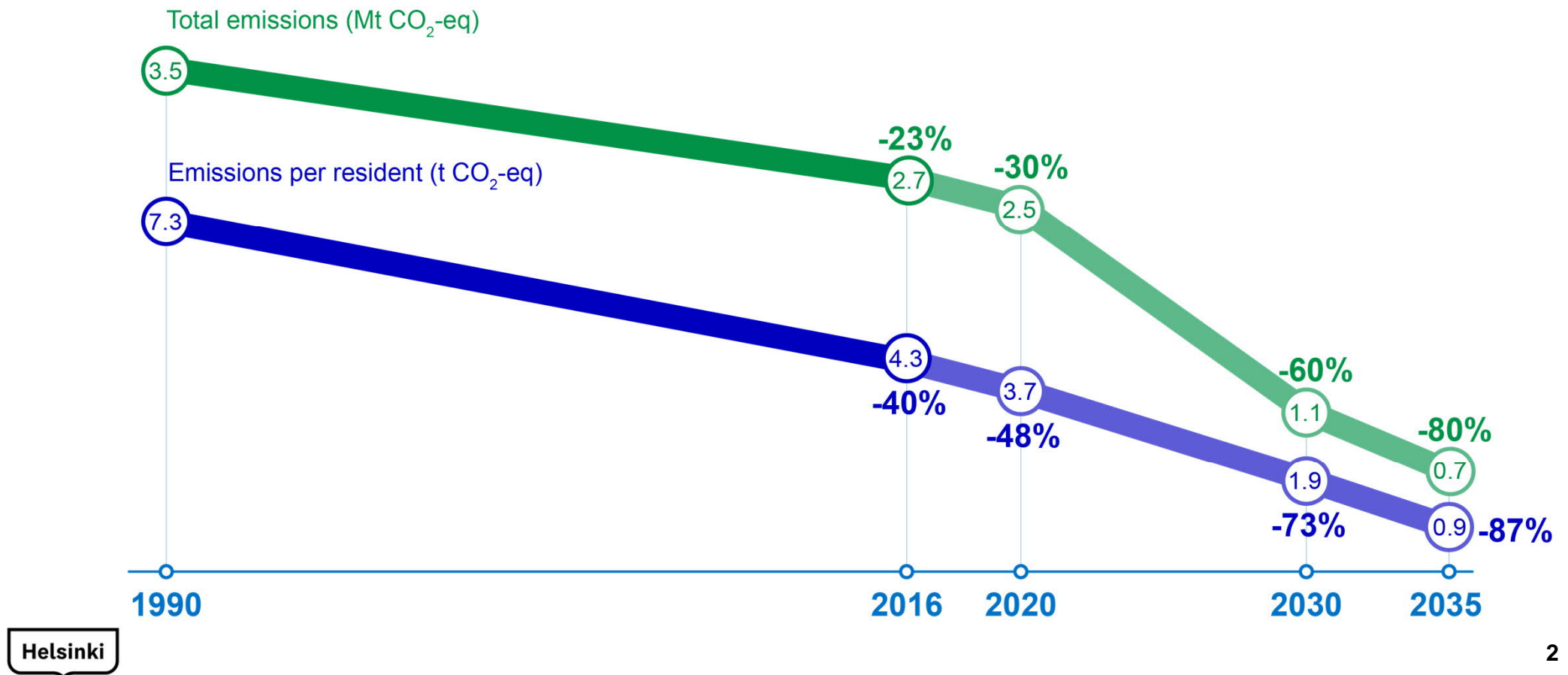


Buildings and Carbon Neutral Helsinki 2035

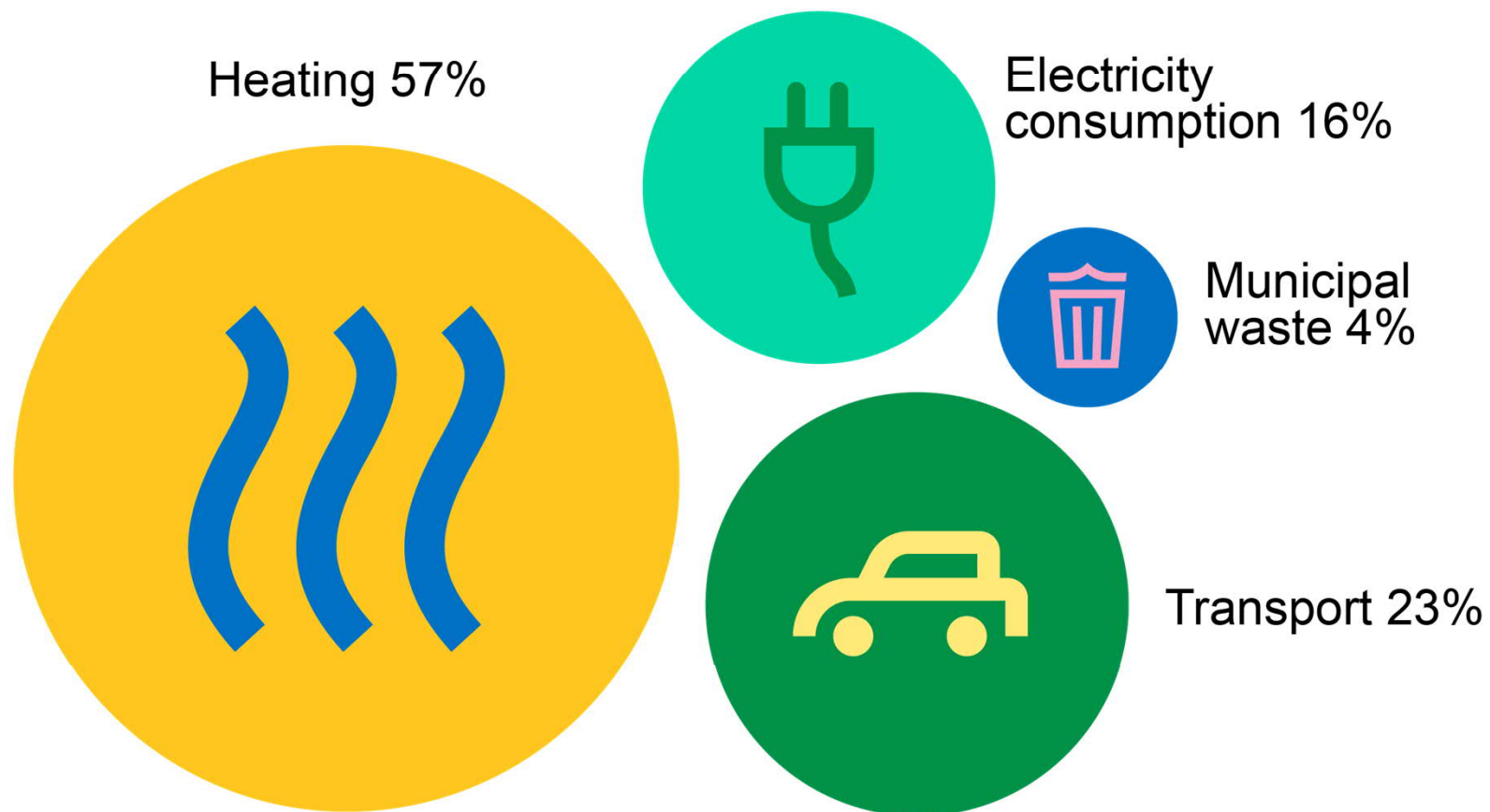
Kaisa-Reeta Koskinen

Helsinki

Helsinki is set to be carbon neutral by 2035.



Emissions in Helsinki





**Total
Heating
Emissions**

=

**Emission
Factor of
Heat
Generated**

x

**Amount
of Heat
Needed**

BOTH VARIABLES NEED TO GO DOWN!



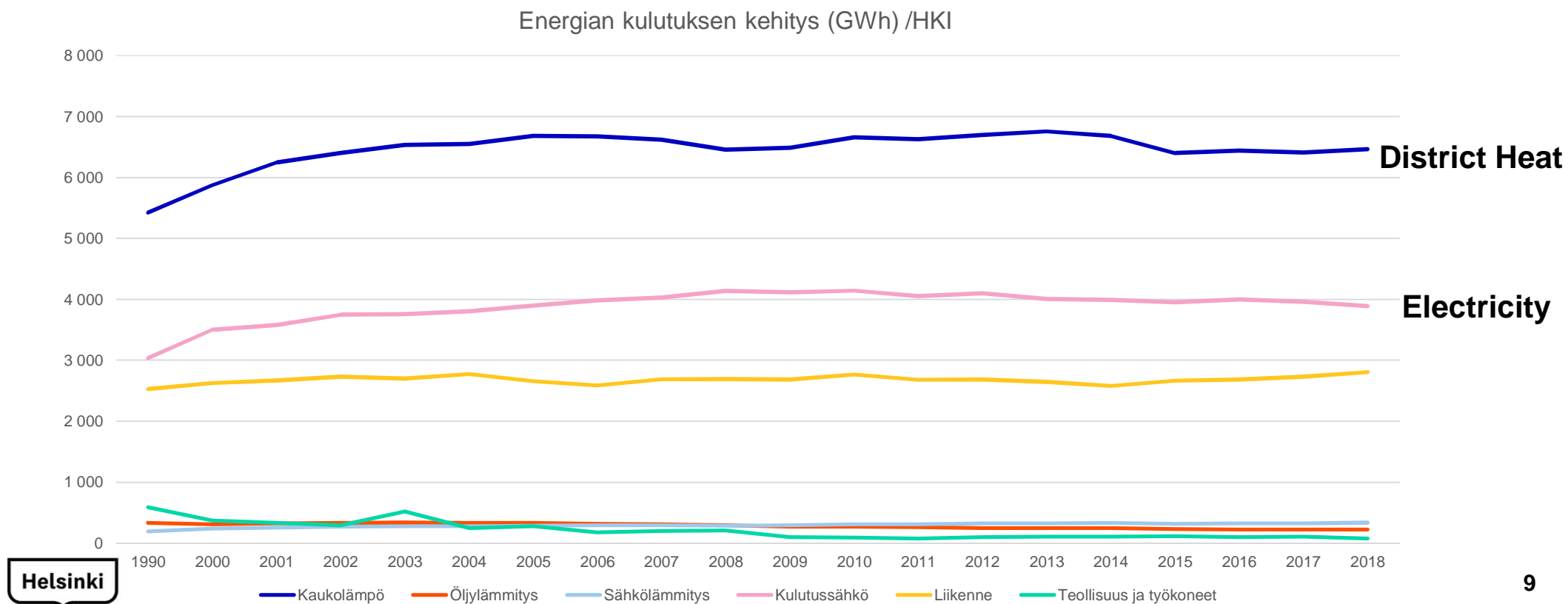
Existing Building Stock is the Main Thing to Focus on

What does it mean in practice?

- 20% total heat consumption (2018-2035)
- 30% district heat consumption (2018-2035)
- 15% geothermal at 2035 (0,5% at 2019)
- 15% solar power at 2035 (0,5% at 2019)
- New buildings close to the net zero
- Very ambitious renovations

**- 30% OF
DISTRICT HEAT
WITHIN NEXT
15 YEARS!!!**

Energy Consumption in Helsinki (1990-2018)



- Lot of demonstrated solutions available
- Economical Sense is there

Still no major progress...

- Every decreased kWh is important and needed, but one needs to keep the target in mind
- Scalability, scalability & scalability – and not only from the technological point of view
- Most of the people have very thin interest on energy – we should not count on that!

“Helsinki’s operating model is based on openness and transparency. Helsinki is the world’s leading city in opening up and utilizing public data”

(City strategy 2017-2021)

**We're willing to
bare it at all.**

**We want to be
radically open
and share our
progress with
others.**

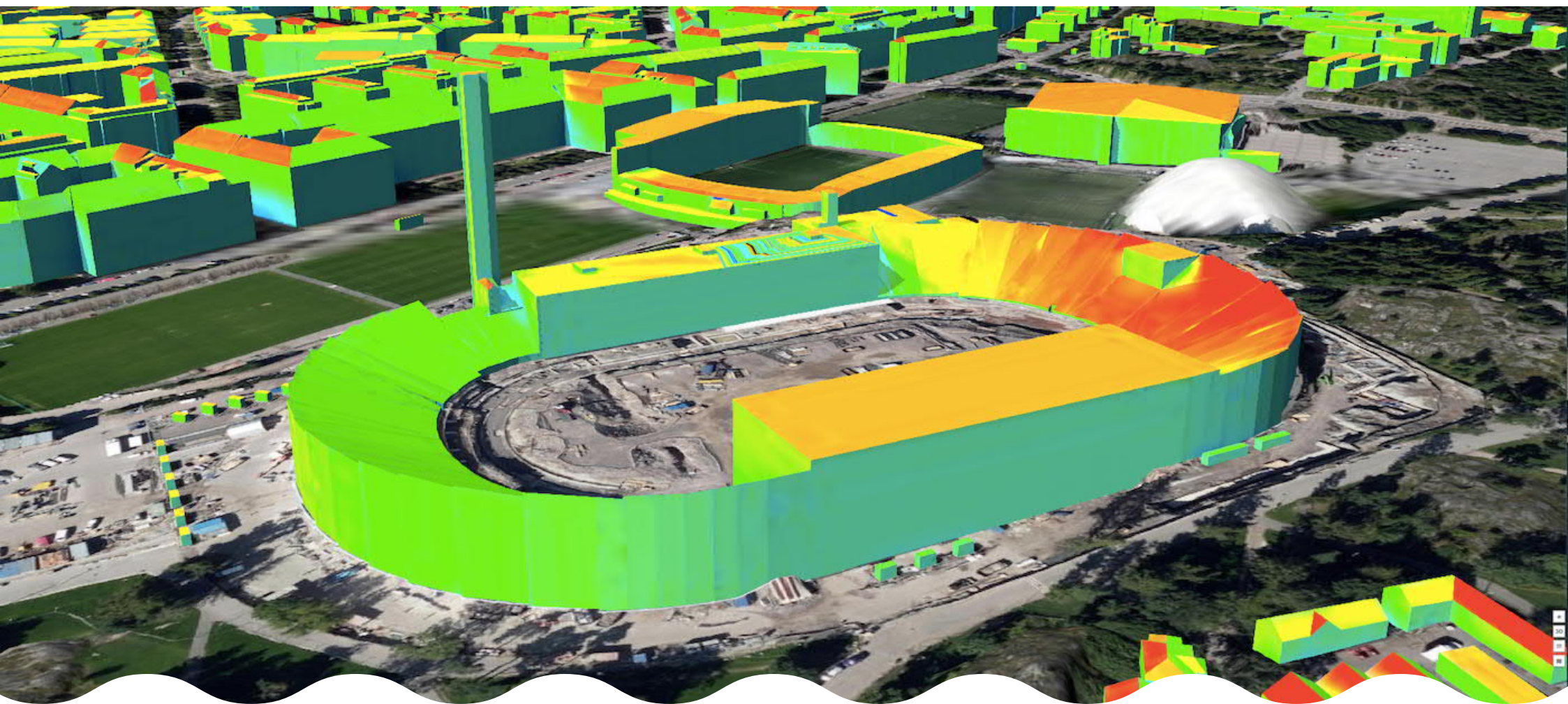
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City data for everyone



Rethinking our way of life

Welcome to the good life!

Helsinki

