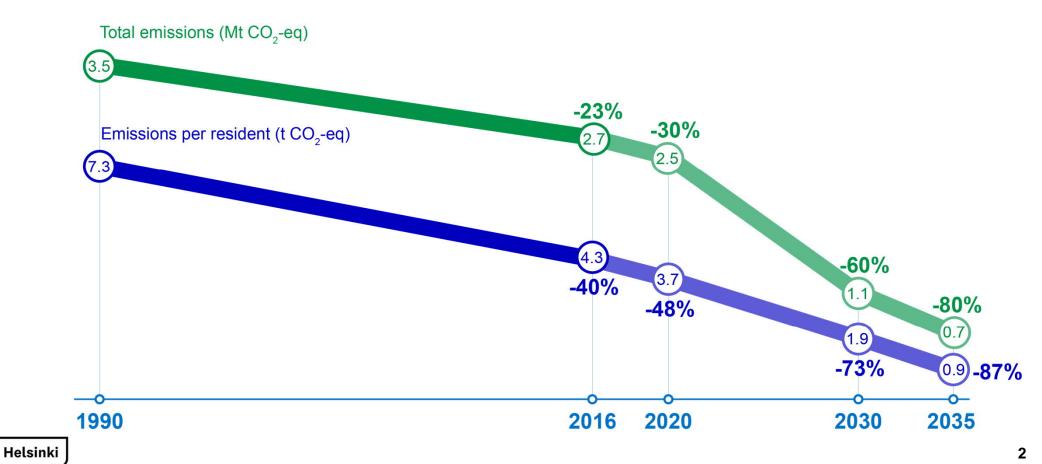
# Buildings and Carbon Neutral Helsinki 2035

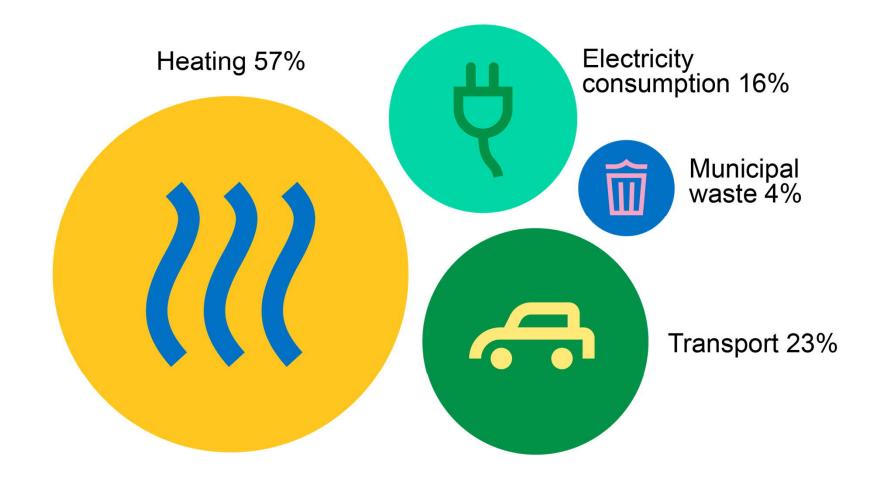
Kaisa-Reeta Koskinen

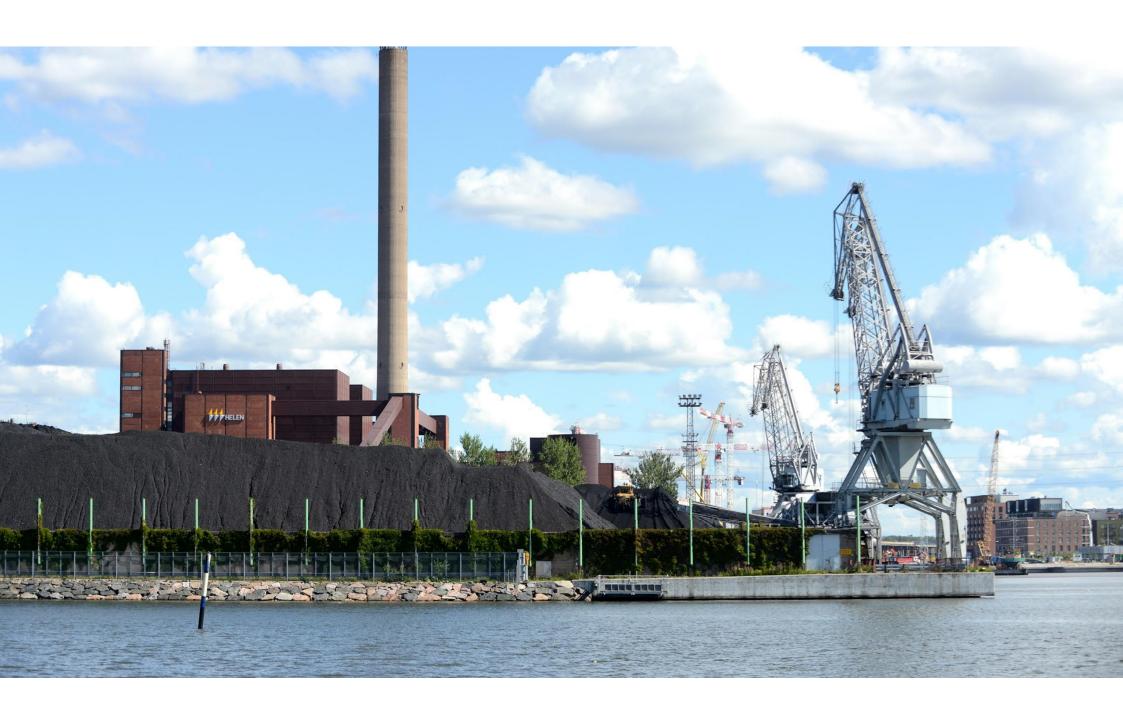


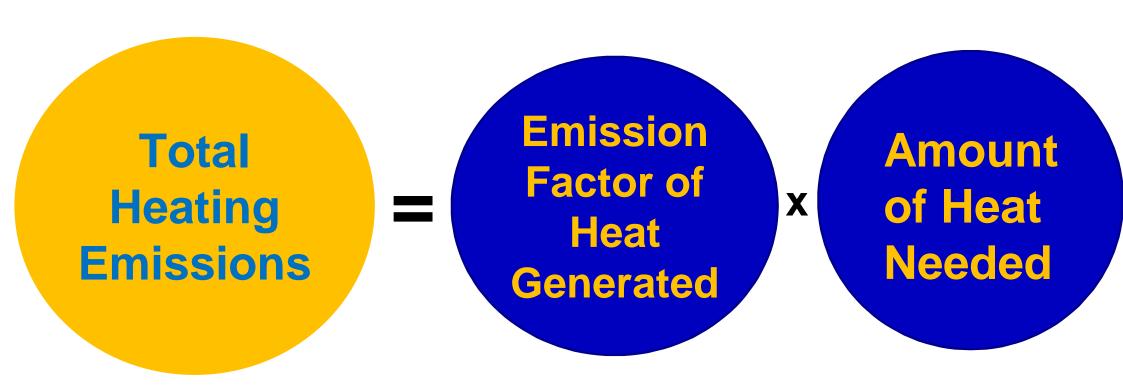
### Helsinki is set to be carbon neutral by 2035.



#### **Emissions in Helsinki**







#### **BOTH VARIABLES NEED TO GO DOWN!**





Existing Building Stock is the Main Thing to Focus on

#### What does it mean in practice?

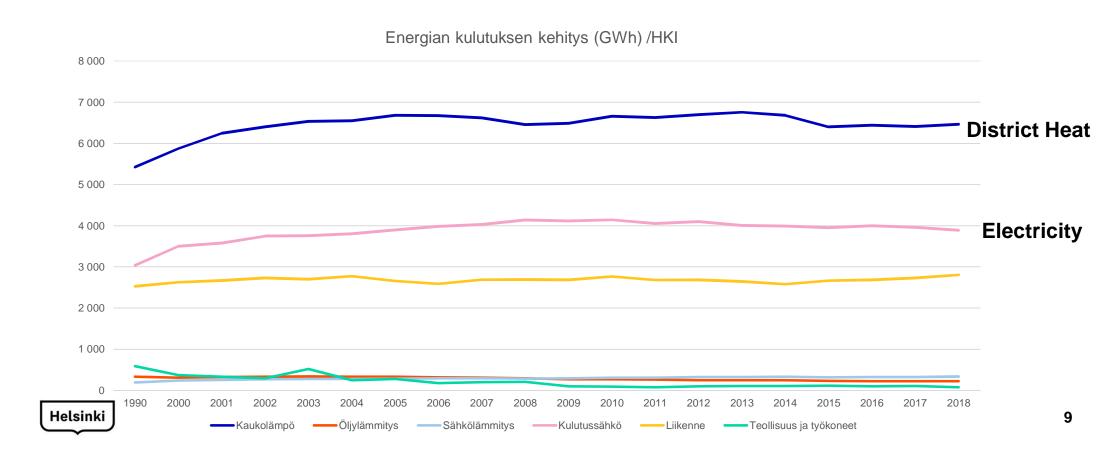
- -20% total heat consumption (2018-2035)
- -30% district heat consumption (2018-2035)
  - 15% geothermal at 2035 (0,5% at 2019)
  - 15% solar power at 2035 (0,5% at 2019)
  - New buildings close to the net zero Very ambitious renovations



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



### Energy Consumption in Helsinki (1990-2018)



Lot of demonstrated solutions availableEconomical Sense is

### Still no major progress...

there



- 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"

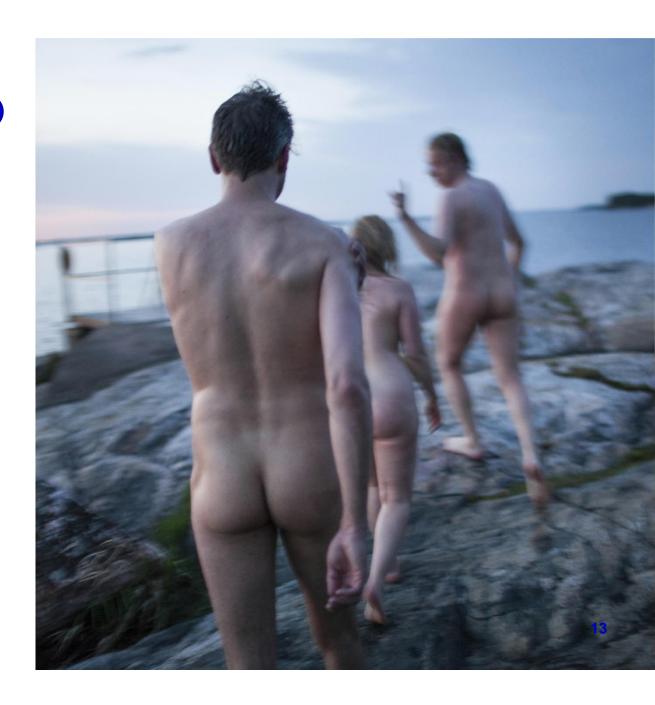
(City strategy 2017-2021)



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

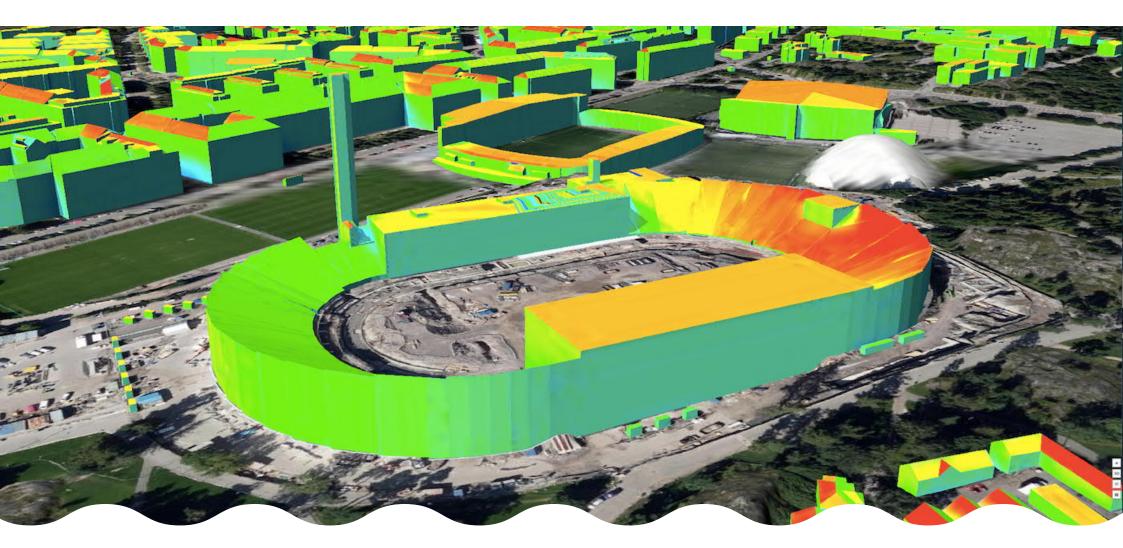
We want to be radically open and share our progress with others.





#### hnh.hel.ninja

Nykyisellä vähennysnopeudella Hillneutraeil Helsin II 2035 To mencibest Midant Helsinki on Hillineutraali 27.8.2073 Lue lisää → Tavoitteen saavuttamiseksi vuositasolla vähennettävä vielä 1857 000 t CO<sub>2</sub>e Lue lisăă → HUOM:Tāmā on palvelun Alpha-kehitysversio. Sīvustolla saattaa esiintyš esimerkinomaisia sisältöjä jotka eivät perustu todellisiin tietoihin sekä toiminnallisuuksia, jotka ovat vielä kehitysvaiheessa. Hiilineutraali Helsinki 2035 -toimenpideohjelma Helsnie on sitoutunut kantemaan vastuunse limastonmuutoksen hillinnässä. Helsingin kaupunkistrategiassa 2017–2021 tavoitteeks on ssetettu hilinautraai Helainki vuoteen 2035 mennessä. Ilmastotavoitteet koskevat kaunun kei



City data for everyone



Rethinking our way of life

### Welcome to the good life!



