

# Tampere Energy's plans regarding carbon dioxide utilization and removal

Bio-CO<sub>2</sub> Use and Removal 2024

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# 100% owned by the people of Tampere

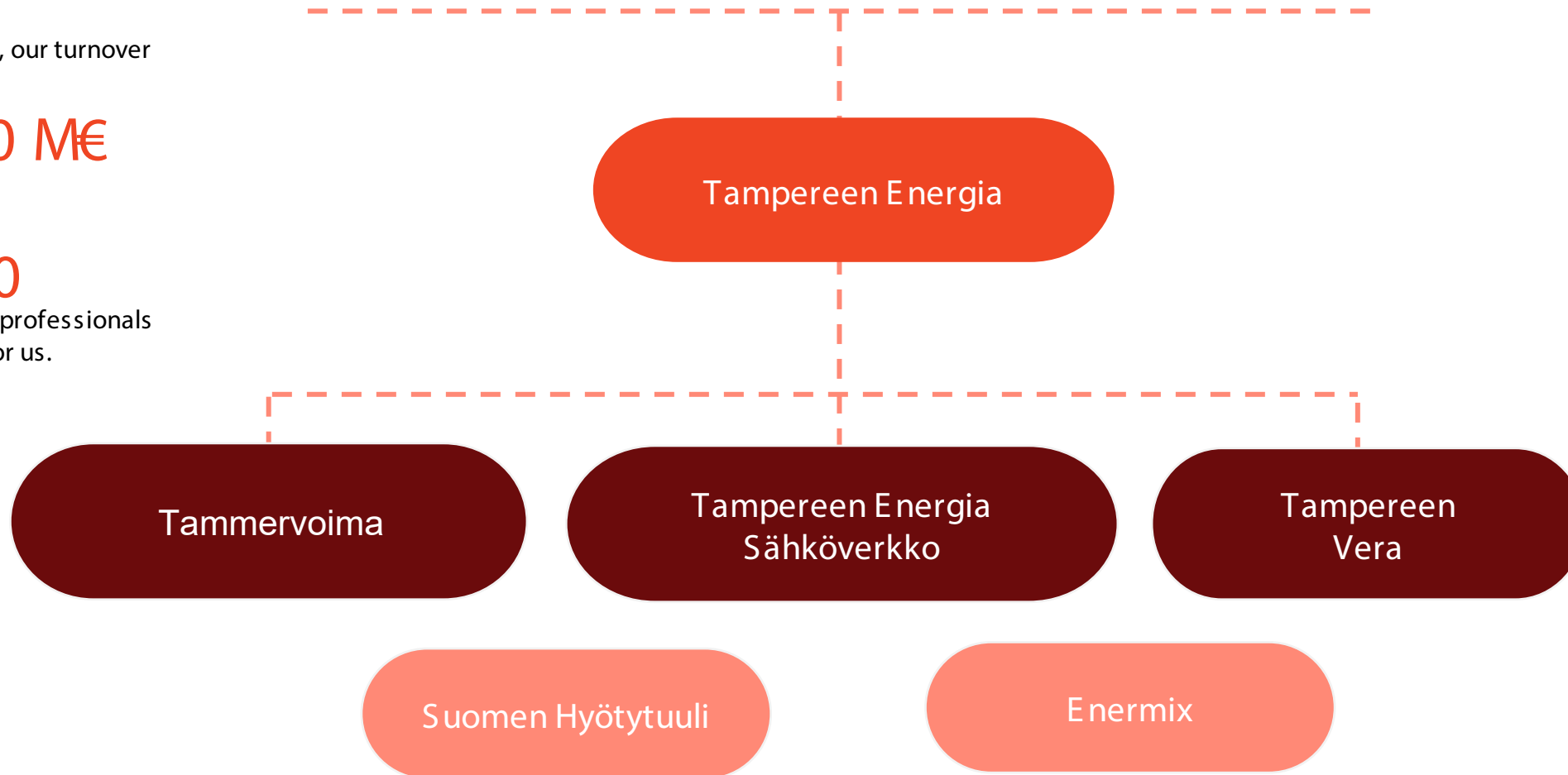
Founded in  
**1888**

In 2022, our turnover  
was  
**360 M€**

**380**  
skilled professionals  
work for us.

**86 %**  
of Tampere residents live or  
work in a home or business  
that uses district heating.

We develop and maintain  
**4 000 km**  
of electricity network.

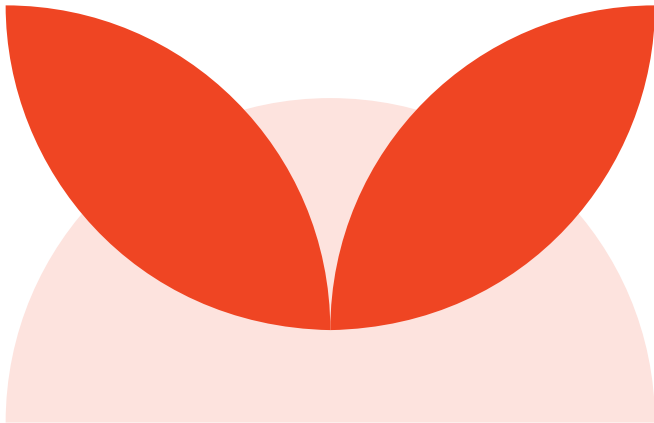


In 2022, Tampereen Energia generated over 41 millions euros for the well-being and development of the City of Tampere.

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# Our way to stop the climate change



## Step 1

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# Low carbon emissions Bioenergy

- ✓ Naistenlahti 3
- ✓ Flue gas scrubbers
- ✓ Waste heat recovery



## Step 2

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# Carbon neutrality

## Non-combustion technologies

- E-boilers
- Thermal storages
- Heat pumps
- CCU (Nordic Ren-Gas)

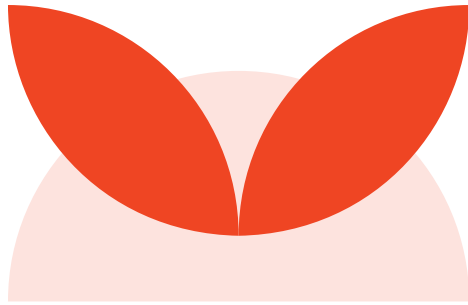


## Step 3

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# Carbon negativity Carbon capture

- Bio-CCUS



Step 1

**Low carbon emissions**  
Bioenergy



Step 2

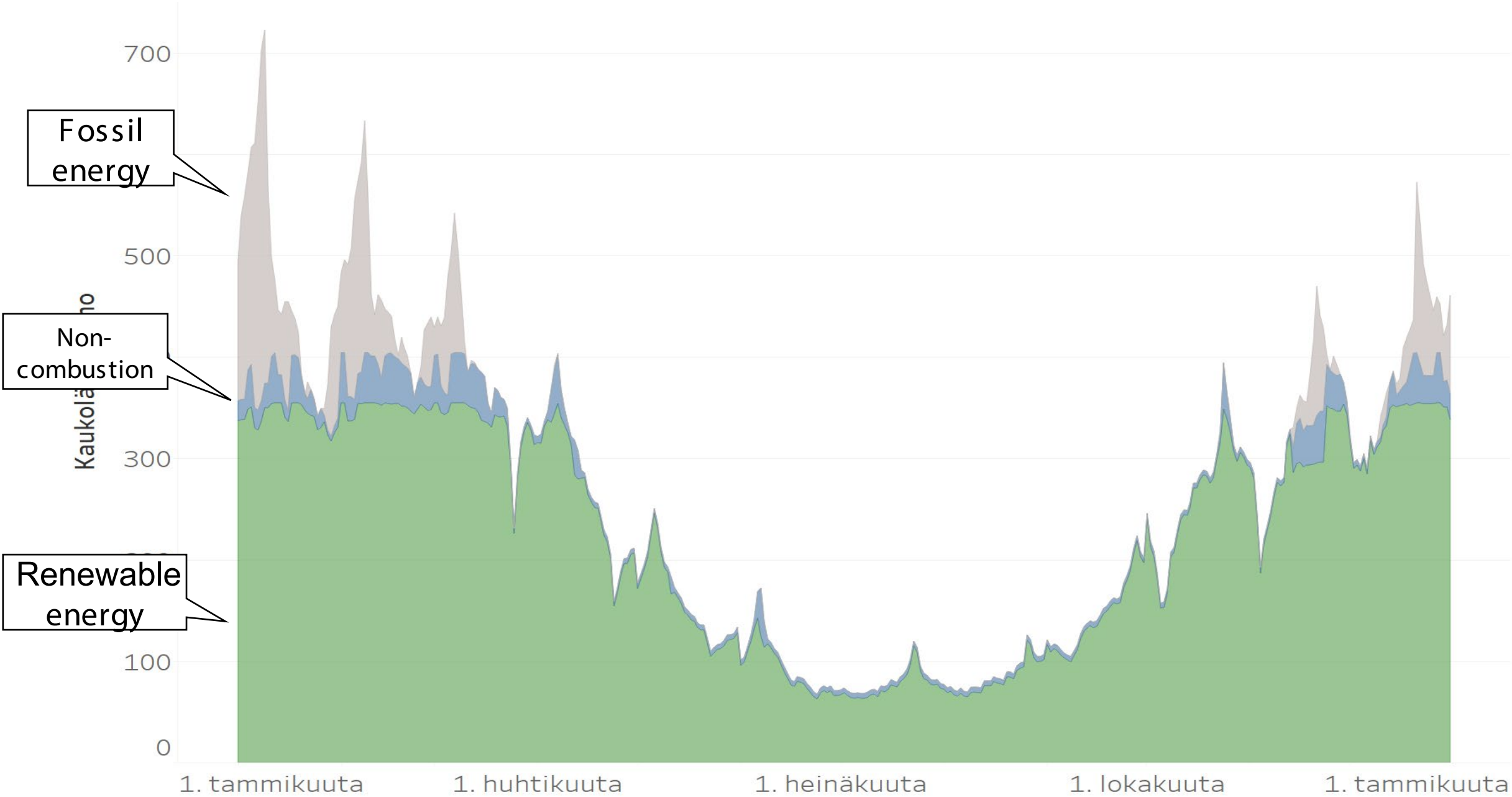
**Carbon neutrality**  
Non-combustion  
technologies



Step 3

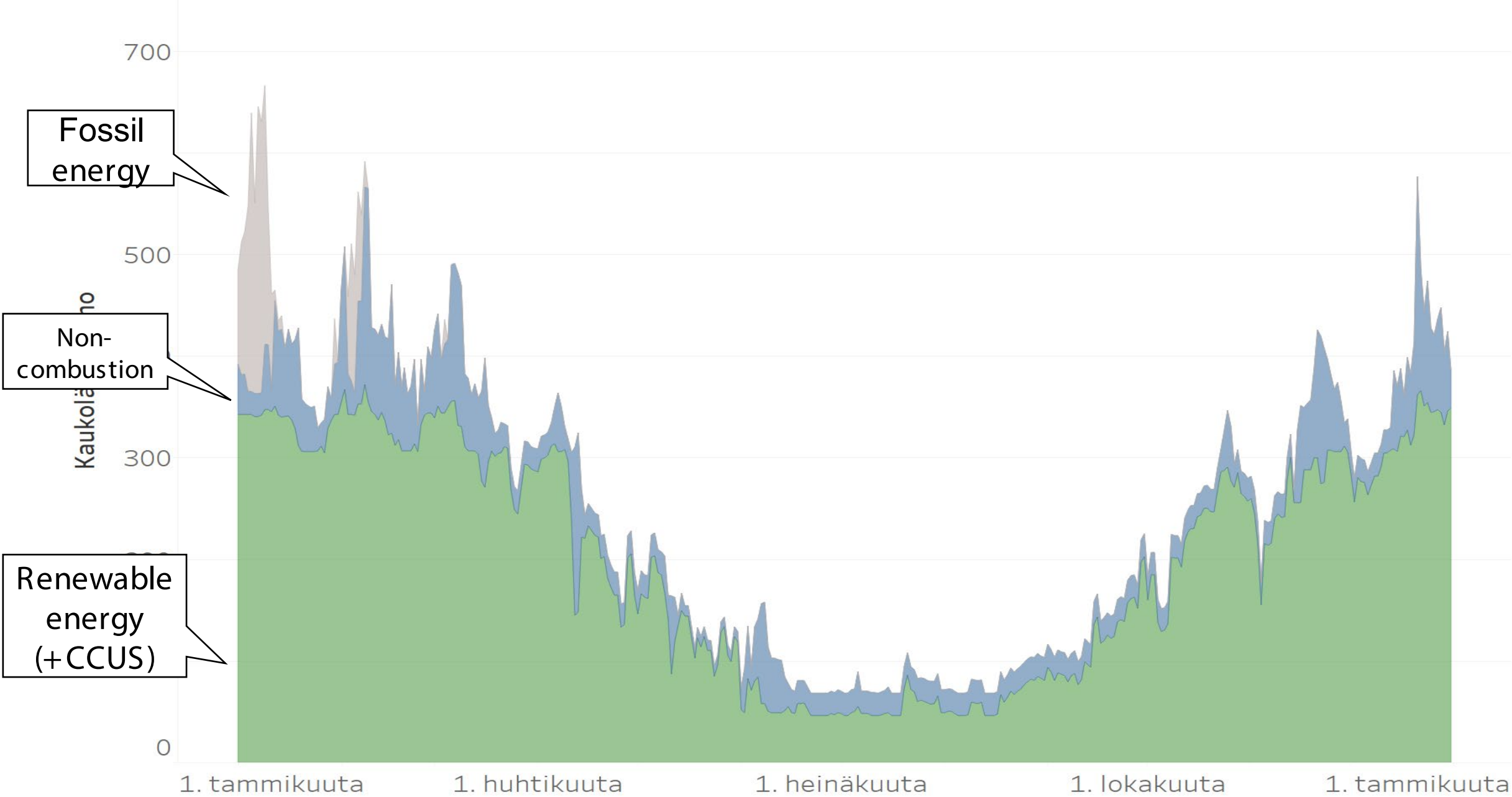
**Carbon negativity**  
Carbon capture

# District heating today



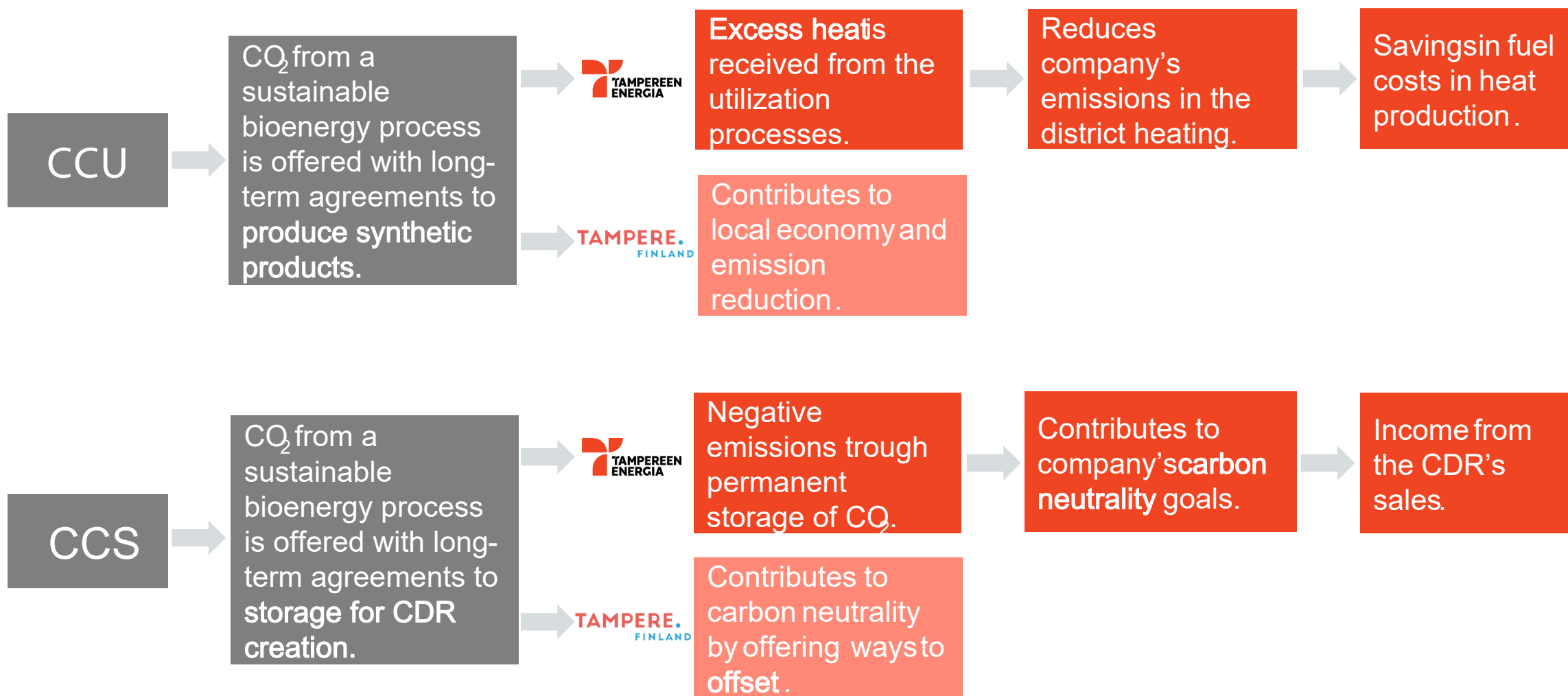


# District heating in 2030





Why would a city owned  
energy company be  
interested in carbon capture?

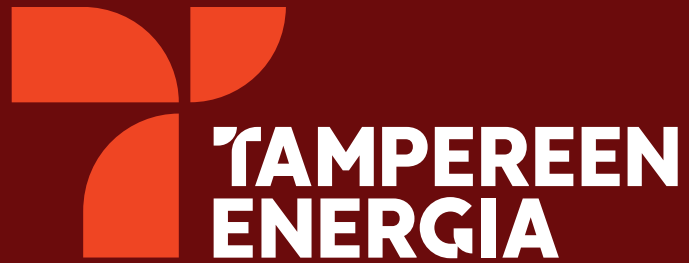




# What needs to be accomplished, to reach the last step in our climate plan?

- ✓ Business case clarification with the partners and investors
  - For the capturing facility
  - For the CO<sub>2</sub> infrastructure
  - For the products
- ✓ Regulatory details from the government and EU
- ✓ Long-term agreements with all parties.





# Thank you!



<https://www.tampereenenergia.fi/wp-content/uploads/2023/11/polttoon-perustumaton-kaukolampo-2023-selvitys.pdf>

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