

District heating in Frederiksberg and Denmark

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Technology



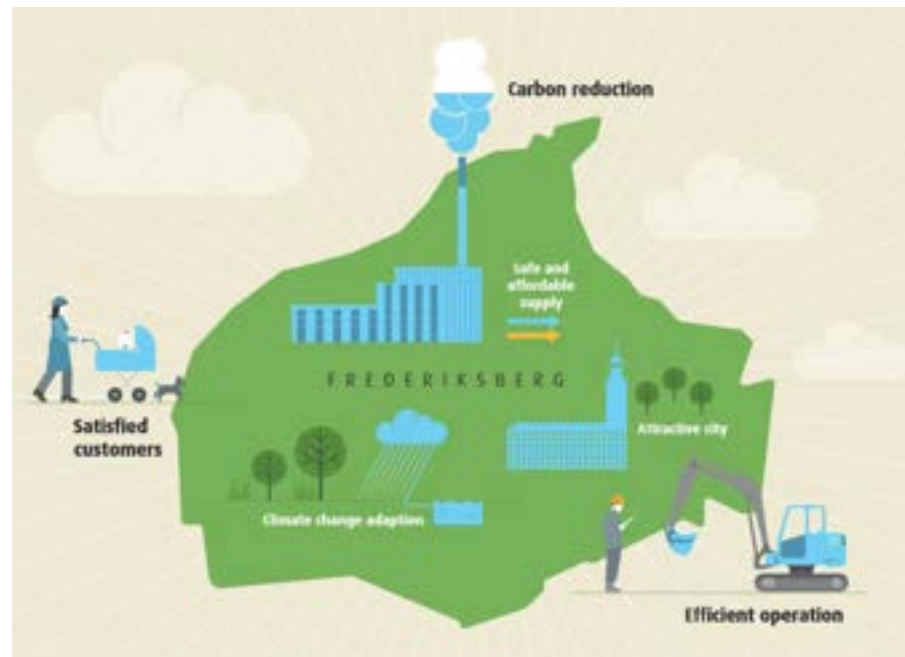
Frederiksberg – in the middle of Copenhagen



Demographics

Frederiksberg Municipality:

- 105,000 inhabitants
- 53,000 households
- Highest population density in Denmark
- 97 % live in flats, 51 % live alone
- 4,800 businesses
- Covers an area of 8.7 km²



Frederiksberg Forsyning



History

- 1860 Gas (started as a private company)
- 1865 Sewage
- 1869 Water (started as a private company)
- 1899 Electricity (started as a private company)
- 1903 District heating
- 1921 All five supplies are run by the municipality
- ...
- 2000 Frederiksberg Forsyning (Utility) is established
- 2005 DONG Energy buys the electricity business
- 2012 Frederiksberg District Cooling is established
- 2014 Frederiksberg Wind A/S established
- 2016 Frederiksberg renewable energy is established



Our products



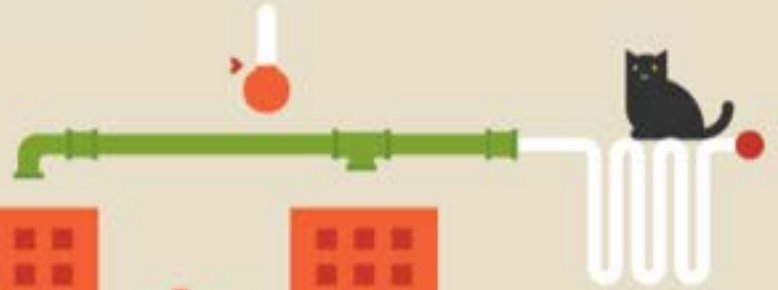
Gas

Environmentally friendly gas for cooking and business.



Wind

Electricity for the municipal buildings.



District Heating

Cheap and environmentally friendly heat for more than 99% of all households.



Water

The quality is top and it tastes good.



Sewage

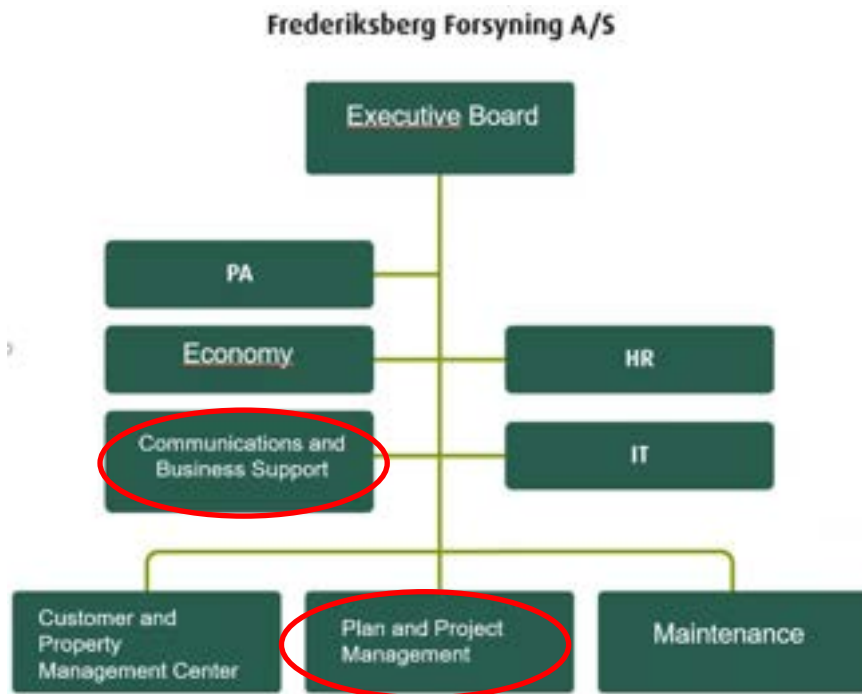
We ensure high quality pipes and plants. And you get help to make climate change adaption.



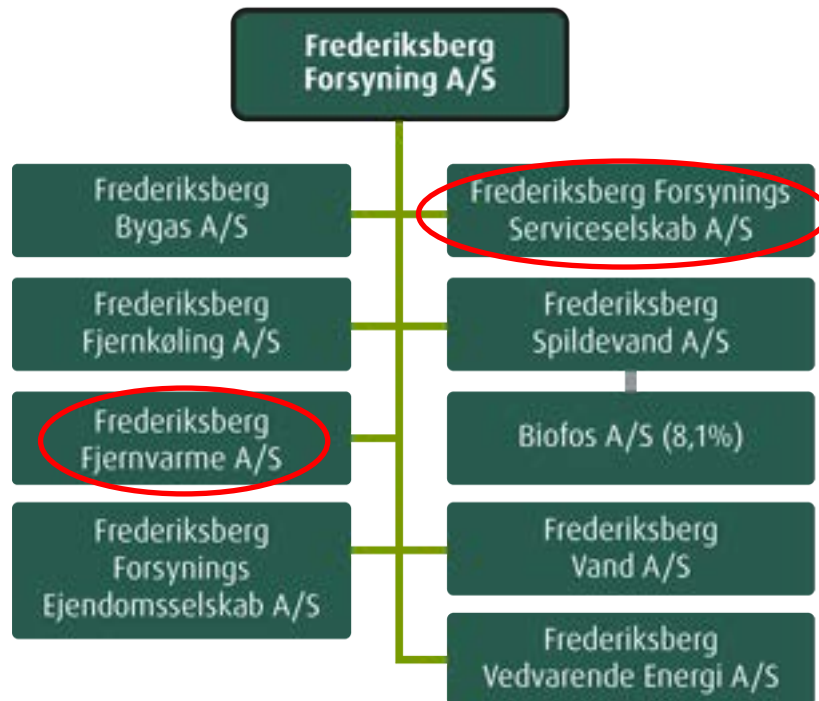
District Cooling

We offer district cooling to our business customers.

Organisation



Koncernen Frederiksberg Forsyning A/S



Vision

Frederiksberg Forsyning is working to promote energy efficiency and ensure the best products and customer service with an eye on climate:



Inspiration
Sustainable business
Energy efficiency
Good service

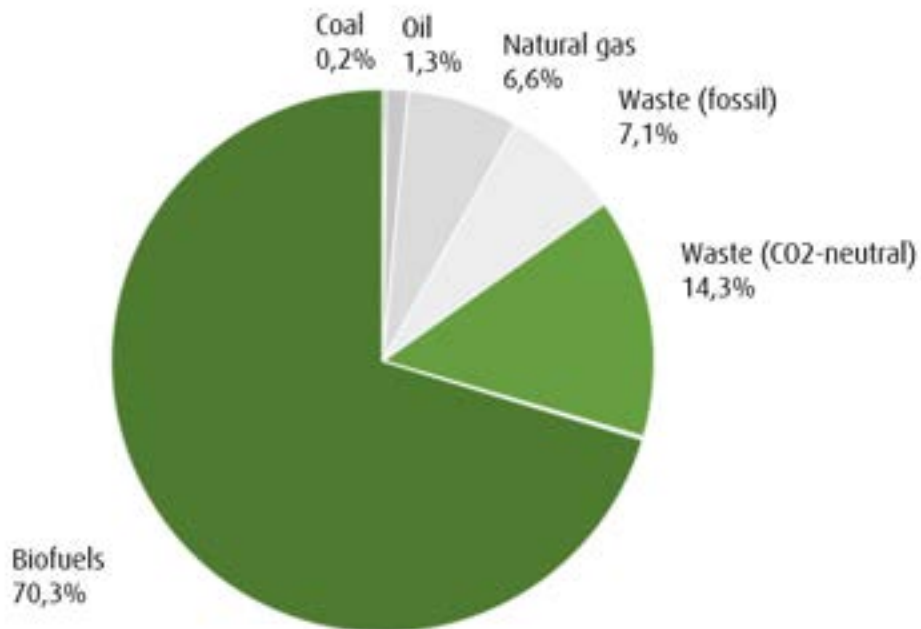
Mission

Frederiksberg Forsyning's mission is to ensure the daily supply of the customers. Therefore, the essence of the mission is:

A young child with light brown hair and bangs is playing in a water fountain. The child is wearing an orange shirt and has their mouth open, looking up at the water. A stream of water is spraying from a black nozzle on the right side of the frame. The background is blurred, showing green foliage and a wooden fence.

Quality of life
Sustainability
Comfort

Greater Copenhagen – district heating fuel sources 2021



District heating – Frederiksberg

- CTR runs the transmission system from the production utilities (CHP/WtE) to Frederiksberg

At Frederiksberg:

- Local peak load unit (4 x 50 MW heat only boilers)
- 6 heat exchanger stations ●
- 1 booster pump station



Temperature levels – district heating



Planning



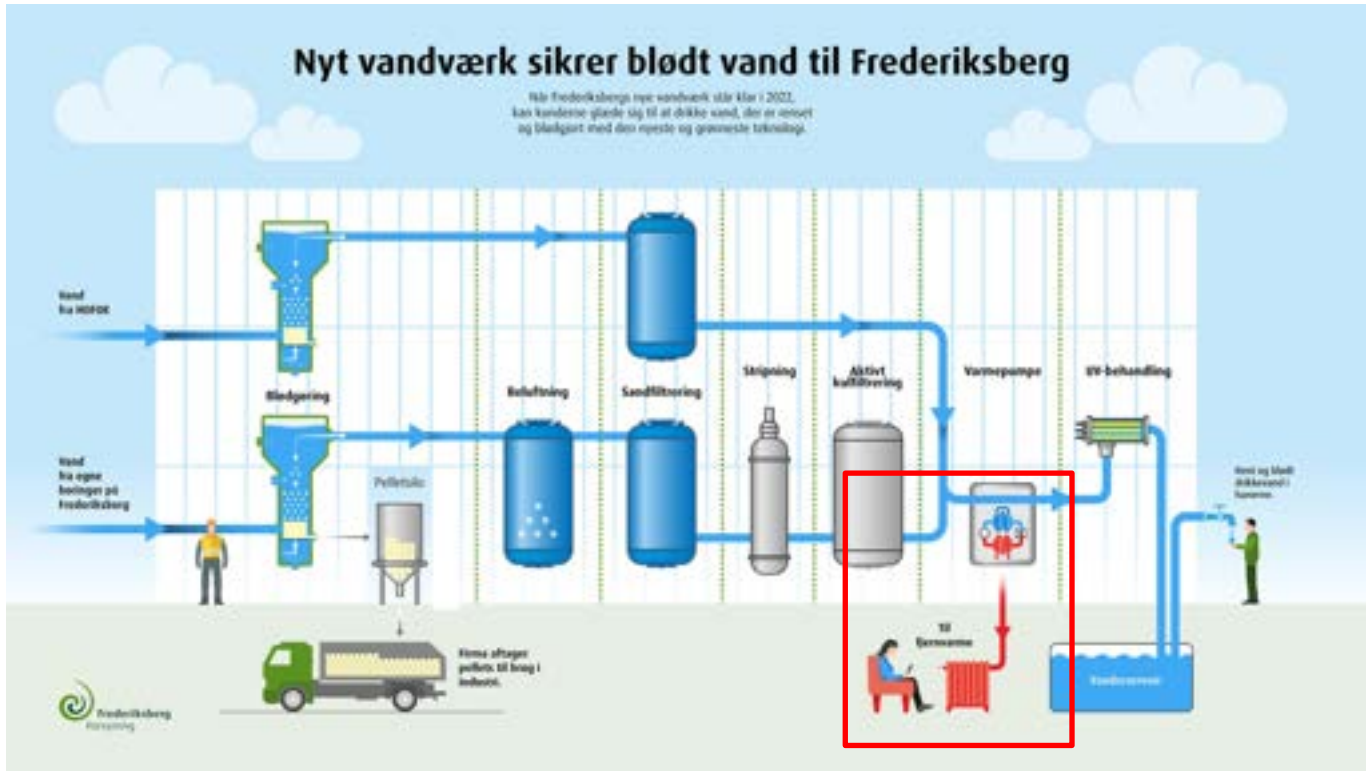
- Strategic energy plan

Renovation of a pipe system that covers the entire municipality

Lowering the temperature further

More local energy production

New water plant - Heat pump



Thank you for your attention

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