

## Want to know more?

You can read more about REFER-CDR on our website: [www.refer-cdr.eu](http://www.refer-cdr.eu)

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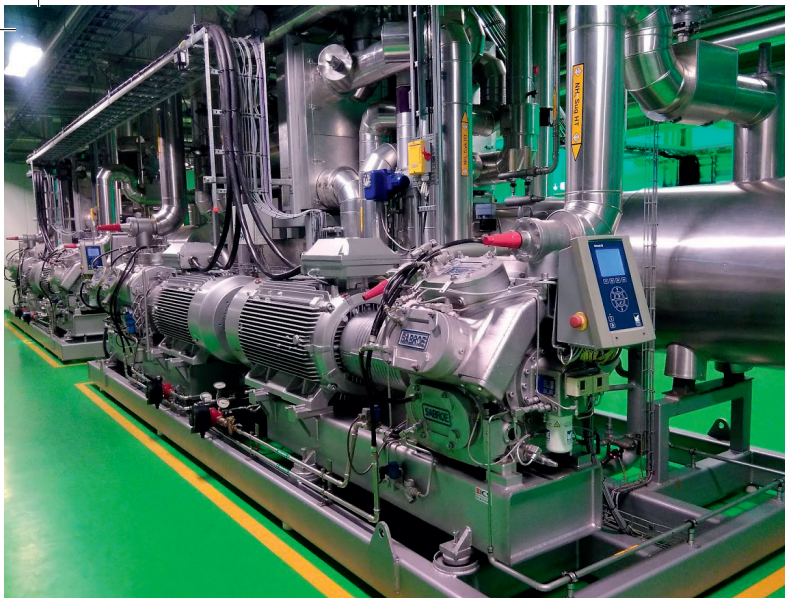


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# REFER-CDR

The project that accelerates  
the green transition of  
district heating in Central  
Denmark Region



## REFER-CDR

REFER-CDR stands for Renewable Energy for Emission Reduction in Central Denmark Region.

The project accelerates the green transition and contributes to CO<sub>2</sub>-reduction, increases energy efficiency as well reduces district heating consumer prices.

The project contributes to the UN Sustainable Development Goals and has goal number 17, Partnerships for the Goals, as the natural strategic framework.

The project ensures counselling to natural gas fired heating plants, providing them with a solid foundation of information when investing in district heating solutions based on renewable energy or energy efficiency.

The project runs from 1st of May 2017 to 30th of April 2021 and is supported with DKK 21,5 mio. by the EU as a part of the ELENA-programme.

## Danish district heating becomes an exhibition for the green transition

There are 24 partners from the Central Denmark Region participating in the project, who all have committed to a total investment of DKK 543.7 mio. within new energy efficient technology up to 2021.



• Ramsing, Lem, Lihme • Vinderup • Haderup • Feldborg • Vildbjerg  
 • Videbæk • Ringkøbing • Viborg Fjernvarme • Frederiks • Rødkærsbro  
 • Gudenådalens energiselskab • Klejtrup • Hvam • Skals • Energi Viborg  
 • Gudenåcentralen • Ans • Mejby • Værum-Ørum • Langå • Hedensted  
 • Gylling, Ørting, Falling • Løsning • Tørring

## Energy technology

District heating plants invest in renewable energy sources and CO<sub>2</sub>-reducing energy technologies.

### Heat pumps

Heat pumps in district heating function as a reversed refrigerator, where you extract heat from an energy source such as heat waste from e.g. hospitals and the industry, or from natural sources such as lake water and outside air. Heat pumps often run on electricity, which is more than 50 % green in Denmark today.

### Biogas and solar heating

Several district heating plants invest in biogas technology. The plant thereby goes through a green transition from natural gas to biogas. Solar heating is widespread amongst district heating plants and is a common technology in the REFER project.

### Distribution system

More and more district heating plants chose to connect with a so-called transmission line in order to exchange heat waste. That offers a number of efficiency benefits, which both can provide economic advantages and opportunities to harness more renewable energy.