



COOL DH Final conference

Welcome to the COOL DH conference

TOWARDS NEXT GENERATION OF DISTRICT HEATING

Get to know the latest and visit the demo sites!



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA



Welcome to COOL DH – Day 2

by

Reto M. Hummelshøj,
Leading Project Manager,
COWI A/S
Project Coordinator
COOL DH



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA



Why is it called COOL DH?

1. We target co-production of Cooling and District Heating
2. We focus on LTDH and u-LTDH – new solutions / business models
3. We develop and demonstrate some “COOL” solutions 😊



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA

COOL DH demonstrates solutions in parallel at two demo sites

District heating in Denmark and Sweden - Similar but still different

Lund - Brunnshög (Sweden) => 40.000 people

New district under development

Høje-Taastrup - Østerby (Denmark)

Existing area composed by slightly renovated buildings

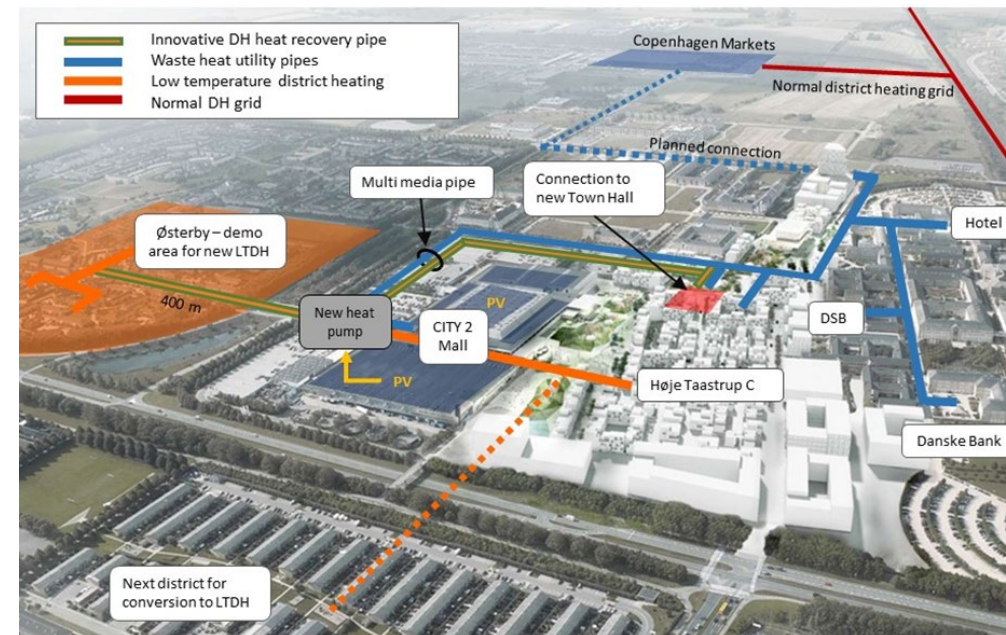


The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA

COOL DH - role of heating and cooling

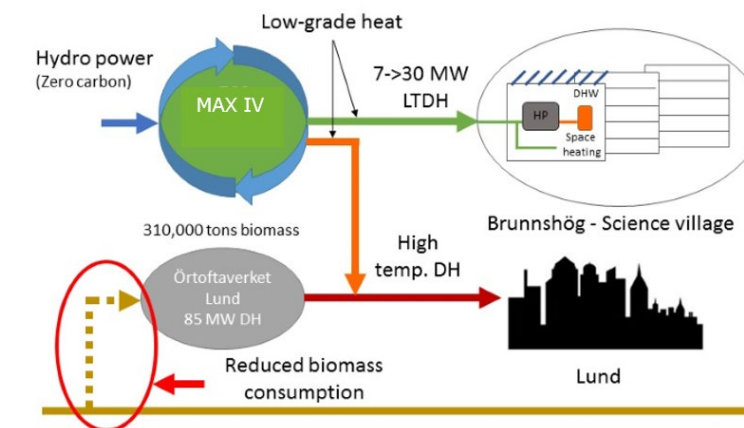
Høje-Taastrup - Østerby (Denmark)

- > Area with *renovated/existing buildings*
- > New LTDH network (85/50=>55/30°C) with new PE-RT pipes
- > LTDH supplied by CITY2 shopping center's cooling system
- > Heat recovery from bank (data center)



Lund - Brunnshög (Sweden)

- > *New district under development for 40.000 people*
- > New LTDH network (65/35°C) with new PE-RT pipes
- > Surplus heat from research facilities (Max IV / ESS)
X-ray particle accelerators heating the district
- > Passive house multiapartment demonstration building, Xplorion



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA

Program Day 2

- Major findings from EU supported DH projects
- Development of DH in Greater Copenhagen Area towards 2050
- Climate and Energy strategy for Høje-Taastrup Municipality
- Towards 100% green DH in Høje-Taastrup
- Development of new multilayer PE-RT pipes
- COOL DH Høje Taastrup business case and demonstrations
- Visions towards 5th generation DH
- Q&A and exhibits
- Site visits

ENJOY 😊



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA

COOLDH
COOL DISTRICT HEATING

- EU funded **Horizon 2020** project with 11 partners
- Project period from Oct. 2017-Sept. 2022

More on www.cooldh.eu

Or contact rmh@cowi.com



The project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement n° 767799 - COOL DH - H2020-EE-2016-2017/H2020-EE-2017-RIA-IA

COOL DH
COOL DISTRICT HEATING

COOL DH is a project that aims to find ways of utilizing low-grade waste heat in energy efficient buildings by optimizing Low Temperature District Heating (LTDH) solutions

www.cooldh.eu