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NRW.ENERGY
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DBDH

NRW DISTRICT HEATING STUDY TOUR TO DENMARK

12-13 March 2024



Read and download the latest edition of HOT|COOL [here](#).



8th MARCH 2024 15.00 WEBINAR BEFORE THE VISIT TO DENMARK

- Program for the visit to Denmark
- Regulation and business models for DH in Denmark

HOMEWORK

To make the most of your time in Denmark, we kindly ask all participants to read some material before the tour begins. This is for inspiration and background – there will be no exam.

- Dänische Wärmewende: o <https://www.waermewende.de/daenischewaermewende/>

Articles in Hot|Cool magazine

- <https://online.flippingbook.com/view/144755169/8/>
- <https://online.flippingbook.com/view/144755169/16/>
- <https://online.flippingbook.com/view/505294643/10/>
- <https://online.flippingbook.com/view/596430928/12/>
- <https://online.flippingbook.com/view/196565041/6-7/>

Important Contacts:

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Colbjørnsengade 14

1652 Copenhagen V

Tel: +45 33 31 32 66

Reception:

axel@guldsmedenhotels.com

Booking:

axelbooking@guldsmedenhotels.com

[Website](https://www.guldsmedenhotels.com)



PROGRAM NRW STUDY TOUR TO DENMARK 11.-13.03.2024

Monday 11 March 2024

Individual arrival

19.00 Casual dinner at [Tivoli Food Hall](#), Bernstorffsgade 3, 1577 København, Dänemark

Tuesday 12 March 2024

06.45 – 08.10 Flight Düsseldorf – Copenhagen (Eurowings) (Pick-Up at Exit and transfer by Metro with us direct to Fasanvej Station and walk 200 m to the DHDH offices)

09.15 – 09.35 Bus from Hotel Axel Guldsmeden to DBDH, Stæhr Johansens Vej 38, 2000 Frederiksberg

Towards zero - heat planning and actions on regional and local level

09.45 – 10.25 Energy transition through partnership between regions, municipalities, companies, and knowledge institutions. / *Jens Skov-Spilling, Head of Energy Program, Gate-21*

Gate 21 is a non-profit partnership for municipalities, regions, companies, and knowledge institutions that together must ensure climate action. They strengthen the partners' green competences, create innovation and scaling. Together they walk new paths that no one can find individually. This is how they take the next step towards a climate-neutral and circular society.

Web: [Gate 21 | Sammen for klimahandling. Nu!](#)

10.25 – 10.40 Q&A and discussions

10.40 – 11.25 2050 Greater Copenhagen Heating Plan 2050 (sector coupling, heat pumps, P2X, hydrogen, geothermal heat, heat pumps) / *Jan Hindsbo, vice director of CTR*

(Greater Copenhagen Transmission Company)

[English - CTR](#)

[VarmeLast - YouTube](#)

[DISTRICT HEATING IN GREATER COPENHAGEN – 2050 - DBDH](#)

11.25 – 11.40 Q&A and discussions

How to lower temperatures to utilize waste heat sources?

11.45 – 12.25 Frederiksberg Forsyning / *Hans Martin Bayer Kühl, Head of Project and Planning*

- How to lower the temperature in the district heating system
 - Challenges in old existing buildings
 - Customer interaction
- Heat pump based on water supply.



Web: [Forside - Frederiksberg Forsyning \(frb-forsyning.dk\)](https://frb-forsyning.dk)

About: [Frederiksberg Forsyning - DBDH](#)

12.25 – 13.00 Lunch

13.00 – 13.45 Technical visit to control room, heat pump and 2 x 50MW coming e-boilers

Establishing district heating from scratch

13.45 – 15.00 The city of Holbæk / *Patrizia Renoth, Energy Planner*

- How to convert a city using gas to use district heating?
- Strategic Heat planning and the role of the municipality
- Communication with coming customers and stakeholders

The municipality of Holbæk only has a few towns with district heating, and the city of Holbæk (30.000 people) is heated by natural gas. When the city council decided on an ambitious climate goal, they also understood that they needed a strategic energy plan and that district heating needed to be considered as a possible solution. The local politicians insisted on early and real citizen and stakeholder involvement. A few years into the process – where are they now?

[Varmeforsyning \(holbaek.dk\)](https://varmeforsyning.holbaek.dk)

15.00 – 15.30 Q&A and discussions

15.30 – 15.45 Coffee and cake

DH Marketplace

15.45 – 18.15 An interactive workshop (5 x 25 min. in smaller groups)

- Heat planning: Niras + DBDH
- Renewable heat production / *Aalborg CSP and Fenagy*
- Energy efficiency technology / *Salling Plast, Drone Systems and Logstor*
- Digital DH solutions / *Pernexus and Danfoss*
- Lowering DH temperatures / *Grundfos and Aquatherm*

18.15 – 18.30 Transport to hotel Axel Guldsmeden Colbjørnsensgade 14, 1652 Copenhagen and check-in

19.30 Networking dinner at restaurant Chambre, Jernbanegade 4, 1608 København V



Wednesday 13 March

08.00 Departure by bus to CP Kelco, Ved Banen 16, 4623 Lille Skensved

08.45 – 09.30 The process of heat planning and the role of the municipality and cooperation with district heating companies / *Jakob Skødt Nielsen, Green Ambassador, Køge Municipality*

09.30 – 10.15 DH case Køge – (design, organizing and economy) / *Tom Jensen, Lead of Operation, VEKS (DH Transmission Company)*

[Still the key \(veks.dk\)](https://veks.dk)

10.15 – 10.35 CP Kelco case (DH company motivation for industrial waste heat + contract etc.) / *Tom Jensen, Lead of Operation, VEKS (DH Transmission Company)*

[Creative noise control with side benefits \(veks.dk\)](https://veks.dk)

10.35 – 10.45 Short break

10.45 – 11.15 CP Kelco motivation to participate in a waste heat project – risk assessment, process for contract etc.) / *Jørn Stryger, director of production, CP Kelco (industrial company)*

[Home - CP Kelco, a Provider of Nature-Based Hydrocolloid Ingredients](https://veks.dk)

11.15 – 11.35 Q&A and discussions

11.35 – 12.15 CP Kelco site visit

12.15 Departure by bus to Albertslund Forsyning, Vognporten 9, 2620 Albertslund + site visit on the way + sandwich on the bus.

On the way:

- Visit to a DH construction site: District heating pipes are welded together and laid in the ground, xxx, Køge (20 min)
- Site visit to Thermal Heat Pit Storage (70,000 m³), Bondehøjvej/Klevehøjvej, Taastrup / CTR + site visit to district heating pipe construction site (20 min)

Video: [Videos - DBDH](https://veks.dk)

Article: [New heat storage pit must be re- and discharged 25 times annually - DBDH](https://veks.dk)

14.15 – 17.15 Albertslund Forsyning (DH Company)

The municipality of Albertslund is a frontrunner city in Denmark regarding energy renovation of buildings paving the way for low-temperature district heating. At the visit we will cover the following topics:

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Gas conversions to district heating, building renovation, low temperature DH – how?, different temperature zones, digitalization, industrial heat from datacenters, and finally and not least: what is the role of the municipality and what is the role of the utility to decarbonize the city of Albertslund. We will also have a walk to have a look of the renovations of houses.

Presentations by Niels Hansen and Lasse Jacobsen

+ speech by Major Steen Christiansen

About: [Municipality in transition to low temperature district heating \(stateofgreen.com\)](https://stateofgreen.com)

Web: [Fjernvarme \(albertslund.dk\)](https://albertslund.dk)

[The renovation in Albertslund was comprehensive. | Download Scientific Diagram \(researchgate.net\)](https://researchgate.net)

17.15 – 17.45 Q&A and discussions

17.45 – 18.30 Evaluation of the study trip

18.15 – 19.00 Bus to Copenhagen Airport

20.25 – 21.45 Flight Copenhagen – Düsseldorf (Eurowings)



NRW, Germany, List of participants

Municipalities

	<i>Name</i>		<i>Municipality</i>	<i>Position</i>
1	Martin	Sammler	Klimakommune Saerbeck	Head of Climate Protection Unit
2	Yvonne	Liczner	Klimaregion Rhein-Voreifel	Inter-municipal climate protection manager for the Rhine-Sieg district on the left bank of the Rhine
3	Christopher	Tittmann	Stadt Kamp-Lintfort	Climate protection manager
4	Anika	Hüting	Stadt Detmold	Sustainability manager
5	Bastian	Peukert	Stadt Aachen	Climate protection manager
6	Uta	Bellion	Bündnis 90/Die Grünen Detmold	Council member, spokesperson for the local association
7	Florian	Konen	Stadt Düsseldorf	Climate protection manager for the city of Düsseldorf.

Utilities and District Heating companies

	<i>Name</i>		<i>Company</i>	<i>Position</i>
8	Matthias	Ohl	Iqony Fernwärme GmbH	CEO
9	Nils	Schumacher	Stadtwerke Düsseldorf	Asset Manager
10	Matei	Frunzetti	Stadtwerke Düsseldorf	Senior Expert Sustainability and Strategy
11	Benjamin	Grötsch	Stadtwerke Düsseldorf	Specialist Energy Economy
12	Matthias	Wallner	Stadtwerke Detmold GmbH	Head of Grids and Generation Plants
13	Thomas	Phlipsen	evd energieverorgung dormagen gmbh	Head of Technical Infrastructure Department
14	Paul	Jüngst	Trianel GmbH	Head of Trendscouting
15	Stefan	Schmidt	Stadtwerke Essen AG	Deputy Head of Planning and Construction (Gas/Water)
16	Sebastian	Korstick	Stadtwerke Essen AG	Head of Sales and Shared Service
17	Bruno	Sailer	Uniper Wärme GmbH	
18	Frank	Ceglarz	Uniper Wärme GmbH	Project engineer and deputy team leader
19	Jan	Reimann	Uniper Wärme GmbH	Project Manager Special Projects
20	Ralf	Settertobulte	Stadtwerke Lemgo GmbH	Head of Grids
21	Reinhard	Laing	WestfalenLandWärme	CEO
22	Johannes	Lackmann	WestfalenWINDTech	

Other companies and institutions

	<i>Name</i>		<i>Company/Institution</i>	<i>Position</i>
23	Merle	Dümeland-Schäfer	evety GmbH	Consultant Municipal Heat Planning



24	Nils	Becker	Energieagentur Rhein-Sieg	Advice on energy and climate protection in municipalities
25	Christian	Mildenberger	Landesverband Erneuerbare Energien NRW e.V.	CEO
26	Henning	Wiegandt	Siemens Energy	Transformation manager/innovation manager
27	Gero	Rueter	Deutsche Welle	Editor
28	Daniel	Zugehoer	Zeitung für kommunale Wirtschaft	Editor
29	Alexandra	Hahn	NRW.Energy4Climate	Press
30	Magdalena	Sprengel	NRW.Energy4Climate	Head of International Cooperation
31	Verena	Falb	NRW.Energy4Climate	Head of International Cooperation
32	Lisa	Kaborn	NRW.Energy4Climate	Energy industry expert
33	Lars	Engber	MWIKE, Referat 612 (Fernwärmeausbau)	Referent
34	Luuk	Masselink	MWIKE, Referat 714 (Kommunale Wärmeplanung)	Referent
35	Elisa Viktoria	Krammer	MWIKE, Referat 714 (Kommunale Wärmeplanung)	Referentin

Danish participants

	<i>Name</i>		<i>Company</i>
1	Jakob	Jespersen	Aquatherm
2	Elmar	Peelen	Aquatherm
3	Mette	Leiholt	Pernexus
4	Gina	Nielsen	Drone Systems
5	Ebbe	Nørgaard	Fenagy
6	Jes	Donneborg	Aalborg CSP
7	Kasper Varn	Quist	Niras
8	Ruth	Trummer	Niras
9	Lennard	Höft	Niras
10	Thomas	Gierlich	Grundfos
11	Julian	Betzer	Grundfos
12	Bettina	Dietrich	Salling Plast
13	Frank	Hänelt	Logstor
14	Tade	Hansen	Danfoss
15	Lars	Hummelose	DBDH
16	Toke	Liengard	Danish Energy Agency
17	Anders	Portskrog Laier	The Trade Council of Denmark in Germany