



THE SMART

Eco-governance in Practice

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NORDIC HEAT MASTER CLASSES

MINING THE FUTURE

**SUSTAINABLE HEAT GENERATION AND STORAGE UNDERGROUND
& UP-DATE ON NEW DISTRICT ENERGY PROJECTS IN NL**

THE HAGUE

3 OCTOBER 2018 – 09.30 – 16.00

YOU ARE INVITED to a Nordic Heat Master Class in The Hague, addressing the significant opportunities for reducing energy costs and carbon emissions by using former mine workings to store and distribute heating and cooling. Adding to natural geothermal heat, excess heat from e.g. industrial processes and energy-from-waste plants can be stored underground. This opens up new opportunities for making district energy even more affordable, available and environmentally friendly. Mine workings also enable the balancing of the most innovative, next generation, city-wide heating and cooling systems. In former mining communities, heating and heat storage projects help to bring growth and jobs to areas still struggling to recover after the end of the coal era.

THE OBJECTIVE is to highlight the scope and scale of this under-ground opportunity. Mines contain an abundance of low cost, accessible and sustainable heat that can be distributed for community benefit through district heat networks. The conversation will also address other, similar sources of heat e.g. metro transport and sewage systems.

Mines also constitute an unexplored opportunity for storing heat, thereby balancing variations in demand and supply. At the seminar we will explore technologies enabling this, and how this may reduce the costs for installing and operating heat network systems.

FOCUS AREAS of conversation will be

- Business models and technologies for generating and storing heat in former mines
- Low temperature heat networks
- Market opportunities – Highlighting new district energy projects underway in NL

FEE – €500 per organisation/ company (excl. VAT - max 2 participants per company)

REGISTRATION & QUESTIONS

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ORGANIZED BY



IN COOPERATION WITH



greendirections

AGENDA

- 09.00** **Registration & coffee**
- 09.30** **Introduction – Mark Woodward**
- 09.40** **Smart City Alliance - Peter Anderberg**
- 10.00** **5GDHC – strategy - Herman Eijdem**
- 10.30** **5GDHC – technical - Rene Verhoeven**
- 11.00** **Break**
- 11.30** **Heat recovery/cooling, London Underground – Alex Gilbert**
- 12.00** **Engaging investors - Chris Garside**
- 12.30** **Lunch**
- 13.15** **Heat Alliance - Koen van Eig**
- 13.45** **Cetetherm - Johan DeCuyper & Jarmo Rissanen**
- 14.15** **UK mine workings projects - Jeremy Crooks**
- 14.45** **Break**
- 15.00** **Arlanda low temperature heat network - Will Sibia**
- 15.30** **Final Discussion – Mark Woodward and Peter Anderberg**
- 16.00** **Close**

VENUE

New Babylon Meeting Center

Anna van Buerenplein 29 2e verdieping
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LIST OF PARTICIPANTS

Organisation	Name
Smart City Alliance	Mark Woodward Peter Anderberg Chris Garside
Sustainable Energy	Gabriel Gallagher
Transport for London	Alex Gilbert
Coal Authority	Jeremy Crooks
District Eating	Faye Tomson
Townrock Energy	David Townsend
Storengy	David Dequidt
Sweco	Will Sibia
Heat Alliance - Rotterdam	Koen van Eig
Alfa Laval	Julian van Dongen
Mijnwater B.V.	Herman Eijdens Rene Verhoeven
UTC HVAC Benelux B.V.	Sebastiaan Numan
Kors Consult	Hendrik Jan Kors
Cetetherm	Johan De Cuyper Jarmo Rissanen
Asper Investment Management	Olivier Delpon de Vaux Adam Ben-Hamo
Danish Energy Agency	Helle Momsen Fredslund Rune Nielsen
Redenko	Dinant Bauer
University of Glasgow	Neil Burnside

BACKGROUND

NORDIC HEAT is an independent peer-to-peer training and advisory service aiming to support the development of District Energy, Energy Efficiency, Energy from Waste (EfW), Waste Management, and other energy related Smart City infrastructure in Europe and beyond.

The activity was founded in 2014 by a group of municipality owned energy operators in Sweden, all with more than 50 years of experience in installing and operating profitable district energy schemes in a deregulated energy market.

MISSION

- The role of Nordic Heat is to assist project teams in securing the swift implementation of high performing, reliable and competitive district energy and waste management solutions while minimising investment levels, operational costs and risks. A wider objective is to optimising the commercial, social, environmental and political benefits of investments in sustainable energy.
- Also to actively facilitate the efficient exchange of competences, experiences and new innovative technologies and practices, thereby strengthening the overall competitiveness of the sector.
- Nordic Heat also aims to help energy operators secure access to the best available professional and technical staff while reducing the cost of man-power.

SERVICES

ACADEMY

TRAINING SERVICES IN COOPERATION
WITH LOCAL COLLEGES

MASTER CLASSES STUDY VISITS/ WORKSHOPS
VOCATIONAL TRAINING EXCHANGE PROGRAMMES

>3000 participants in 12 markets since 2014

ADVISORY

PEER-TO-PEER CRITICAL FRIEND SERVICES
AND EXCHANGE OF BEST PRACTICE

CRITICAL FRIEND REVIEWS PROCUREMENT
SUPPORT & PLANNING REINFORCEMENTS

Active assignments across Europe and beyond



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