

NO TIME TO WASTE

NORDIC
HEAT

HEAT NETWORKS
SUSTAINABILITY BY SWEDEN

NORDIC HEAT MASTER CLASS

2017-11

CONFIRMATION

NORDIC HEAT MASTER CLASS IN

TECHNICAL TRAINING SESSION IN EfW

CONNECTING NEW AND EXISTING WASTE-TO-ENERGY
FACILITIES TO URBAN HEAT NETWORKS

STOKE - 12 DECEMBER 2017

WE HEREBY CONFIRM the technical training session in Stoke-on-Trent, focusing on technologies, practices and business models to explore the significant commercial and environmental opportunities in the Waste-to-Energy sector

OBJECTIVE – The aim is to address the technical considerations and solutions in extracting and distributing heat from existing and new W2E installations. In addition we will highlight the commercial requirements to make investments viable. The session will be technically advanced.

FOCUS – EfW is a complex business which necessitates combining a multitude of technologies, competences and practices in a coordinated approach involving several stakeholders.

The aim of the upcoming activity in Stoke is to:

- provide a detailed description of the **technical concepts and practices** of capturing and distributing heat from existing and new EfW facilities;
- review the key steps in **managing a EfW project** – from vision to operations
- present a review of **EfW projects underway in Belgium**
- present **proven systems and technologies**
- address the opportunities in **storing heat in old mine shafts**

AGENDA – Final agenda in attachment 1

PARTICIPANTS – List of participants in attachment 2

VENUE – Smithfield Building, 1 Smithfield, Leonard Coates Way, Hanley, ST1 4FA

CONTACT – If you have any questions, please do not hesitate to contact

Gustav Hermansson – HOTSPOT STOKE gustav.hermansson@heatnet.se / +44 7387 294 774

Peter Anderberg – NORDIC HEAT – pa@heatnet.se / +46 70 56 111 99

ORGANISERS



AGENDA

09.00 **REGISTRATION & COFFEE**

I. BACKGROUND

09.30 **INTRODUCTION**

- BACKGROUND & OBJECTIVES
- EFW IN UK AND IN STOKE-ON-TRENT – STATUS AND PLANS
- SCANDINAVIAN EXPERIENCE IN EFW

II. THE COMMERCIAL CASE FOR EFW – OPTIMISING REVENUES

10.30 **BUSINESS MODELLING**

- SPECIFYING THE OVERALL BUSINESS CASE FOR EFW
- IDENTIFYING TARGET CUSTOMERS – CRITERIA FOR SELECTION
- DESIGNING AN ATTRACTIVE VALUE PROPOSITION

III. THE TECHNICAL CASE FOR EFW – MINIMISING INVESTMENTS & COSTS

11.30 **TECHNICAL DESIGN**

- BASIC PRINCIPLES AND OPTIONS
- DESIGN – RETROFIT OR GREENFIELD
- KEY PERFORMANCE INDICATORS
- BEST AVAILABLE TECHNOLOGIES – *(Brief presentations by selected suppliers)*

15.00 **PROJECT EXECUTION**

- ORGANISING THE TEAM – COMPETENCES AND RESOURCES REQUIRED
- INVOLVING PARTNERS & SERVICE PROVIDERS
- PROCURING EQUIPMENT
- SECURING QUALITY & PERFORMANCE

IV. MAKING IT HAPPEN – FROM VISION TO HEAT

16.00 **LAUNCHING THE PROJECT**

- CHECKLIST – FROM FEASIBILITY STUDY TO OPERATIONS
- COMMUNICATION & STAKEHOLDER MANAGEMENT
- PROGRAMME MANAGEMENT SUPPORT FROM NORDIC HEAT

Lunch and Coffee will be served during the day.

NORDIC HEAT ACADEMY – Training & Advisory Services in District Energy

Nordic Heat 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. The mission is to provide assistance to new entrants in the process of installing competitive, reliable and sustainable district energy solutions. Since the start some 3 000 professionals in 8 markets have taken part in the training and advisory services offered by Nordic Heat.



PEER-TO-PEER
PUBLIC TO PUBLIC
NOT FOR PROFIT



PARTICIPANTS

Stoke 12 December	
Participants	Who
Stoke-on-Trent	Andrew Briggs
	Sebastien Danneels
	Paul Mountford
	Jo Stanway
North East Lincolnshire	Tony Neul
	Helen Norris
Sheffield City Council	Mark Whitworth
Stoke Infrastructure Services	Sean Farrell
	Roger Chittock
	Stuart Brown
Walker Morris	Robin Culshaw
	Richard Butterworth
BEIS	George Dobson
Ultravalve	Magdalena Lamasz-Kowalska
Morrison	William Scott
The Coal Authority	Peter Kobryn
	Jeremy Crooks
	Wayne Handley
Eurowater	Jørn Urup Nielsen
Stoke Energy Ltd	Chris Scott
Stoke-on-Trent College	Francine Price
	Kevin Smith
Michelin	Dave Brookes
Keele University	John Carr
ÅF	Johan Winkrantz
	Ulrik Björk
Mälardalens Högskola	Fredrik Wallin
Nordic Engineers	Romain Lambert
Babcock & Wilcox Vølund AB	Johan Moläng
FVU-SINFRA	Linda Olsson
Öresundskraft/ Nordic Heat	Jesper Baaring
	Lars-Inge Persson
Swedish Energy Agency	Ann-Sofi Gaverstedt
Business Sweden	Annie Ross
Hotspot Stoke	Gustav Hermansson
Hotspot Humber	Mark Woodward
NORDC HEAT	Luke Thomas
	Peter Anderberg