



HEAT ACADEMY ONLINE – INVITATION

Digital Heating & Cooling – Best Practice

IT solutions facilitating Design, Installation, O&M and overall performance of heating and cooling networks

21st October : 09:00 – 10:30 (CET)

The Digital Transformation is gaining pace in the sector of decarbonising heating and cooling. It's about time. Solutions that have since long revolutionised other industries, are only now entering the world of heat networks and energy efficiency. The impact will be as significant as are the new opportunities in improving financial and environmental performance as well as reliability and end-user convenience.

The concept of digitalisation generates a range of questions. What does it really mean, how do we do it in practice and where and when to begin? The key question to ask as a start is why we should do it. What are the current challenges new digital solutions can address, and what additional benefits can we expect in terms of generating revenues and customer value, while reducing Capex, Opex and risks.

It all starts with understanding what the new digital solutions will enable us to do. Who, apart from Steve Jobs, could write the spec on a smart phone before the first iPhone was launched? The functions offered by our mobiles today would have been considered fantasy only a few years ago. What new opportunities will we take for granted in our industry five years from now?

At the up-coming session we will highlight a selection of new digital solutions and how they have been applied in practice by some of the most innovative cities and energy operators in Finland and Sweden. Speakers and topics include:

Helen OY, Helsinki – Jaakko Tiittanen – Integrating information and AI

Öresundskraft, Helsingborg – Patrik Hermansson – Organisational impact

Tampereen Sähkölaito, Tampere – Ville Kouhia – Digitalising Heat Networks

City of Gothenburg – Simon Wallqvist – Digital twin in city planning

Göteborg Energi – Eric Zinn – Digital Tomatoes

To register, please send a mail to Peter Anderberg (pa@heatacademy.eu)

The session is offered **free of charge**.

Time	Topic	Speaker
09:00 – 09:10	Introduction – Digital Heating <ul style="list-style-type: none"> • Background & Objectives 	Peter Anderberg Heat Academy
09:10 – 09:30	Helen OY – Helsinki <ul style="list-style-type: none"> • Integrating all historic and current data into a comprehensive GIS based network information system. • Exploring how to apply AI and digital twins in modelling and operating networks 	Jaakko Tiittanen Investment Manager
09:30 – 09:50	Öresundskraft – Helsingborg <ul style="list-style-type: none"> • Digitalisation is not only about technologies – it’s also about enabling people – customers and staff - and about creating an open minded and curious culture embracing learning and open to change 	Patrik Hermansson Director Strategy & Innovation
09:50 – 10:10	Tampereen Sähkölaitos – Tampere <ul style="list-style-type: none"> • Digital solutions to improve performance and to extend life time of heat networks 	Ville Kouhia Heat Networks
10:10 – 10:30	City of Gothenburg <ul style="list-style-type: none"> • A digital twin of the entire city supports planning and business modelling and risk assessments 	Simon Wallqvist Project Manager
	Göteborg Energi <ul style="list-style-type: none"> • Digital Tomatoes 	Eric Zinn Sustainability Manager
10:30 – 11:00	Q&A – for those interested to stay in the session <ul style="list-style-type: none"> • Sharing and Replicating Best Practice • The Heat Academy – A platform for collaboration 	



Helsingin Energia – HELEN OY www.helen.fi

Finland’s largest provider of district heating Responsible for generating electricity, district heating and cooling in the Helsinki region in Finland. The network contains more than 15,000 heating and cooling points, serving over half a million end-users



Öresundskraft www.oresundskraft.se

Major energy operator owned by the city of Helsingborg in the south of Sweden. Serves 125 000 end-users with district heating & cooling, power and fibre networks. Highly reputable company in the forefront of the development of district energy in Sweden.



Tampereen Sähkölaitos – Tampere www.sahkolaitos.fi/en/footer-sivut/about-us/

A modern energy group owned by the city of Tampere in central Finland. Serves the third largest city in Finland with district heating and other energy solutions. Awarded twice with the annual “Fair district heating” award for engaging in bold dialogue with customers.



Göteborg Energi – Gothenburg www.goteborgenergi.se/english

Major energy operator owned by the city of Gothenburg. Serves the second largest city in Sweden with district heating & cooling, power and fibre networks. Long history of being a leader in innovation and sustainable energy solutions.

THE HEAT ACADEMY is an international training, collaboration and innovation platform offering a modular training concept in a broad range of topics related to decarbonisation of heating and cooling. The mission is to address the competence and capacity gaps in the sector by offering hands-on training and facilitating collaboration and sharing of best practice. The Heat Academy is a fully independent organisation based on a collaborative model involving partnerships with local colleges, universities and industry organisations.

The training courses are designed and delivered along two broad categories

- *Professional Training* focusing on the theoretical aspects of implementing smart energy infrastructure – e.g. political, strategic, legal, financial, commercial, technical, leadership and communication/PR. Since the start in 2014, some 5000 professionals in 12 markets have participated in training sessions organised by The Heat Academy.
- *Vocational Training* addressing the practical activities related to design, installation, operations and maintenance of systems. The strategy is to establish collaboration with local universities and colleges, as well as the broader supply chain, thereby speeding up expansion in scope and reach.

The Heat Academy is also initiating and leading collaborative *Innovation Programmes* involving progressive industry partners in the supply chain, universities and industry organisations. Further to that, an *Apprenticeship Programme* has recently been launched offering trainee programmes and on-site work practice in cooperation with industry partners, e.g. energy operators and contractors.

PROFESSIONAL TRAINING

>5 000 participants since 2014



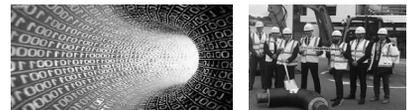
VOCATIONAL TRAINING

Partnering with local universities/ colleges



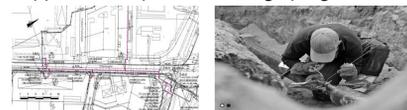
INNOVATION

Initiating collaborative innovation initiatives



APPRENTICESHIPS

Apprenticeships and exchange programmes



FOCUS AREAS

HEAT PROVISION 	COOLING PROVISION 	DISTRIBUTION
CONNECT & CONTROL 	BUILDING EFFICIENCY 	OPERATIONS
ENERGY FROM WASTE 	MINE HEAT 	RURAL HEAT

TOPICS ADDRESSED

POLITICAL STRATEGIES	PROGRAMME MANAGEMENT & LEADERSHIP	COMMUNICATION & SALES
TECHNICAL DESIGN	SUPPLY CHAIN MANAGEMENT	OPERATIONS & MAINTENANCE
SUPPORT & RESOURCING STRATEGY	WELDING & PIPE INSTALLATION	QA HEALTH & SAFETY
DIGITAL TECHNOLOGIES	HEAT PUMPS & HIUS	ENERGY AUDITS & RETROFIT

PARTNERSHIP WITH LOCAL UNIVERSITIES AND COLLEGES

TORONTO NEW YORK



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