# 2019 UK Solar Academy 2: Renewable Heat for Heat Networks



#### Organised and funded by:

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Speakers from:

#### December 14, 2019 (Version 1.0) Dr Richard Hall, UK Alternate ExCo

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# About the event

In March 2019, the IEA Solar Heating and Cooling TCP UK National Team organised our first Solar Academy (on-site training) on Solar Heat Networks: Policy, Planning, Design and Performance (Hall, 2019). This was in response to the introduction of the HM Government Heat Networks Investment Project (HNIP) (HM Government, 2019), which is a £320 million of capital funding program which aims to (1) increase the number of heat networks being built in the UK; (2) deliver carbon savings; and (3) help create the conditions necessary for a sustainable heat network market to develop. The demand to attend our first Solar Academy far outstripped our room capacity and thus we teamed up with Triple Point Heat Networks (the official delivery partner for HNIP) to organise a follow up event (Triple Point Heat Networks, 2019) to bring the outputs of the IEA Solar Heating and Cooling TCP Task 55 to a wider audience.

The details of the Solar Academy event were as follows:

- Title: Renewable Heat for Heat Networks Conference
- Date and Time: 4th December 2019, 08:45 13:30 GMT
- Location: Broadway House, London
- IEA SHC TCP Task 55 Experts: Grant Feasey (AES Solar), Magdalena Kowalska (PlanEnergi), Christian Holter (SOLID Solar Energy Systems), Renaldi Renaldi (Oxford University)

As well as teaming up with Triple Point Heat Networks, we also brought in experts from the IEA Heat Pumping Technologies TCP (Roger Hitchin), the IEA District Heating TCP (Dr Anton Ianakiev and Robin Wiltshire) and the Danish Embassy (Jacob Byskov Kristensen) to support the event. We also used the event to launch the new Task 55 Investor Brochure (Putz and Epp, 2019).

### Response

The response to the event was extremely positive, with 120 people signing up to attend (maximum capacity of the venue) within a few weeks of announcing the event. The attendance on the day was also very good, as was verbal feedback from attendees.

The following pages contain the event agenda, the attendees list by company and photos from the event.

#### References

Hall, R. (2019) UK Solar Academy On-site Training on Solar Heat Networks Report. IEA SHC Task 55. IEA Solar Heating and Cooling TCP. Available at: http://task55.iea-shc.org/publications.

HM Government (2019) *Apply for Heat Networks Investment Project (HNIP) funding, GOV.UK.* Available at: https://www.gov.uk/government/publications/apply-for-heat-networks-investmentproject-hnip-funding (Accessed: 9 October 2019).

Putz, S. and Epp, B. (2019) *Solar Heat for Cities - Large Scale Solar District Heating (Investor Brochure).* IEA Solar Heating and Cooling TCP. Available at: http://task55.iea-shc.org/publications (Accessed: 14 December 2019).

Triple Point Heat Networks (2019) *Renewable Heat for Heat Networks Conference, Eventbrite.* Available at: https://www.eventbrite.co.uk/e/76045182187?aff=efbneb (Accessed: 14 December 2019).



#### **Renewable Heat for Heat Networks Conference**

Date: 4th December 2019

Time: 8:30 registration, 09:00 – 13:00 conference, 13:30 – 14:30 networking lunch and funding surgery

Venue: Broadway House, Tothill Street, London

Time	Session	Speaker
8:30 - 9:00	Registration	
9:00 - 9:05	Housekeeping	James Higgins (TP Heat Networks)
9:05 - 9:20	Introduction to HNIP	Ken Hunnisett (TP Heat Networks)
9:20 - 09:50	Solar Heating and Cooling for Heat Networks	Dr Richard Hall (IEA Solar Heating and Cooling Technology Collaboration Programme and the Solar Trade Association)
		Grant Feasey (AES Solar)
		Magdalena Kowalska (PlanEnergi)
		Christian Holter (SOLID Solar Energy Systems)
		Renaldi Renaldi (Oxford University)
9:50 - 10:10	Heat Pumps and Heat Networks	Roger Hitchin (IEA Heat Pump Technology Collaboration Programme)
10:10-10:30	Integration of innovative technologies	Dr Anton Ianakiev (Professor in Sustainable Energy Systems, Nottingham Trent University)
10:30 - 10:50	Panel Discussion	
10:50 - 11:10	Refreshment break & Networking	
11:10 - 11:25	ESCO Model for Renewable Heat Networks	Christian Holter (SOLID Solar Energy Systems)
11:25 - 11:45	HNIP Heat Decarbonisation Assessment Overview	Dr Andrew Cripps (TP Heat Networks)
11:45 - 12:05	District Heating Technology	Robin Wiltshire (IEA District Heating Technology Collaboration Programme)
12:05 - 12:25	Lessons learned from Denmark - a multifaceted approach	Jacob Byskov Kristensen (Danish Embassy)
12:25 - 12:45	Panel Discussion	
12:45 - 13:00	Closing remarks	TP Heat Networks
13:00 - 14:00	Lunch & Networking	
13:30 - 14:30	Funding surgery (HNIP & District Heating and Cooling TCP)	Business Development Managers (TP Heat Networks) & Robin Wiltshire (District Heating and Cooling TCP)





## Attendee List by Company

Acuris ADE Adur & Worthing Councils AECOM Altecnic Ltd Amberside Ameresco Amey Investments Ancala Partners LLP Arup **BAE Systems** BEIS Bosch Thermotechnology **Brent Council** Brighton & Hove City Council **Buildings Research** Establishment Carbon Descent Carbon Smart Carbon Trust **Centrica Business Solutions** City of London Colchester Amphora Energy Ltd Colloide Engineering Systems Ltd **Compass Lexecon** Data Dig DESMI A/S **E.ON Energy** East Devon District Council Ecuity Energy for London **Energy Transitions Limited** Enertek International Ltd Enerteg

Enerza Solutions ltd ENGIE Equitix Ltd **Evinox Energy Limited** Foresight Group Forestry Commission FuelCell Energy inc FVB District Energy UK Ltd Galliard Homes GLIL Infrastructure LLP Gravis Greater South East Energy Hub Guru Systems Heat Customer Protection Ltd t/a Heat Trust Helix Agencies Hermetica Black Ltd Holistic Economy **IHS Markit** Infrastructure and Projects Authority Intatec Ltd (Heat Interface Units) International Energy Agency Inventa Partners Ltd ion Ventures Kensa Contracting Kent County Council **KPMG LLP** L&Q LB Hackney LB Hounslow Logstor UK Ltd London Borough of Camden London South Bank University Minibems

Mitsubishi Corporation Naked Energy Ltd Nascent Alternative Energy Ltd and Tenopt Ltd Natural Power Nottingham Trent University Orchard Partners London Ltd Peabody Pinnacle Power Powerpipe Systems AB **QMPF LLP** Ramboll REHAU Ricardo Royal Borough Kensington and Chelsea Royal Danish Embassy Solar Trade Association Southern Housing Group Sustainable Energy Association Sustainable Energy Ltd The Guinness Partnership The University of Sheffield TP - Heat Networks IM Uniper University of Oxford University of Sheffield Vaillant Group Veolia Vital Energi Walker Sime Welsh Government WSP YGHP Ltd YURO AFRIASIA DMC

# **Event Photo Gallery**

Introduction to the Renewable Heat for Heat Networks conference by James Higgins from Ecuity on behalf of Triple Point Heat Networks.



Ken Hunnisett from Triple Point Investment introducing the Heat Networks Investment Programme (HNIP).



Richard Hall from the IEA Solar Heating and Cooling TCP introducing the session on Solar Heating and Cooling for Heat Networks.



Grant Feasey, Senior Design Engineer at AES Solar and IEA Solar Heating and Cooling TCP Task 55 National Expert, demystifying solar heat.



Magdalena Kowalska, Mechanical Engineer from the Danish consultancy PlanEnergi, outlining the reasons why solar heat networks have been successful in Denmark.



Christian Holter from SOLID Solar Energy Systems GmbH, explaining the energy transformation of the heat sector in Austria.



Renaldi Renaldi, Research Associate in Sustainable Cooling at the University of Oxford, explaining the solar heat system at Drake Landing Solar Community.



Christian Holter from SOLID Solar Energy Systems GmbH, explaining the key hurdles to investing in solar heat.



IEA Solar Heating and Cooling TCP experts taking questions from the audience.



Jacob Byskov Kristensen from the Danish Embassy explaining the future of heat networks in Denmark.













Networking sessions during the tea and lunch breaks provided an opportunity for attendees to meet and discuss their ideas.















