

District Energy Vanguards Network Newsletter

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Editorial

Time to turn the Heat on

The Met Office today predicted cooler weather for the next few days heralding the end of summer. Time to make sure all your pipes, pumps and plant are working correctly before the commencement of the heating season. It is also the start of the party conference season. This round of political get-togethers has particular significance because it will be the last opportunity for the politicians to sharpen up their act before the next General Election in May 2015, and possibly the last for the United Kingdom.

Last year saw Labour's Ed Miliband ignite a political debate that lasted beyond the sound bite and propelled energy to the top of the political agenda for months on end when he promised an incoming Labour government would freeze energy prices for 18 months whilst they tackled the broken energy market. An unintended consequence was the review of the Energy Company Obligation (ECO) by the Coalition Government. More on that later. But what surprises might we expect this year? Labour will be first out of the blocks with their conference at which they will launch its energy efficiency paper. The Conservatives and Liberal Democrats follow with their respective conferences and will be bound to respond to whatever Labour proposes. This emphasis on energy efficiency is welcome.

Three key themes are presently running through political discourse. Firstly, a momentum has begun to shift power down from the centre to the big cities and regions to allow them greater financial flexibility in making investment decisions for their areas. Secondly, price competitiveness remains an acute political sensitivity with Ofgem referring the retail energy market for investigation by the Competition and Markets Authority. Thirdly, Ofgem has

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highlighted the narrowing margin between generation and supply making energy security an urgently pressing issue.

District energy could harness the drive to devolve financial muscle to local level to provide greater price competitiveness and increase energy security. But what could the political parties do to help?

1. The current round of funding for the Heat Networks Delivery Unit comes to an end in March 2015. This should be extended for a further two years and move beyond energy mapping and feasibility studies to adopt a much more interventionist approach drilling down into practical support for procurement, commercial and contractual activities.
2. Investors need to be provided with confidence in the market in order to make capital available at rates that match the ability of projects' ability to pay. This could be delivered by actions such as mirroring the Scottish Government's definitive target of homes connected to heat networks or underwriting network developers' risk similar to arrangements for nuclear and wind under Contracts for Difference and the Renewable Obligation.
3. Labour has suggested that public sector and mutual companies be allowed to bid for railway franchises whilst Francis Maude for the Tories has recently floated the idea of public sector mutuals having a role in running the health service. Why not extend this approach to the energy sector and follow the lead of Denmark where all heat retailing must take place through not-for-profit organisations?

The district energy market is growing in strength because of actions to date by both the Scottish and UK Governments. Building on this platform will ensure a continuing upward trajectory, but it needs to be driven with the same enthusiasm that the Government currently devotes to fracking.

Lastly, the Government published its response to the ECO consultation. It is very welcome that it accepts that district heating should become a primary measure and that the pre-condition of insulation should be waived for tower blocks where the cost of external cladding prevents projects from progressing. Equally welcome are the indications are that Ofgem will accept a 30 year life term for district heating. However, proposals Ofgem has published for the implementation of these changes retains the insulation pre-condition and specifically states that:

*"We will not accept the **cost** of the installation alone as a reason as to why the wall cannot be insulated"*

Ofgem's interpretation of the legal requirement set in the Amendment Order for ECO leads them to believe there must be a minimum insulation level. This clearly contradicts the policy direction that DECC has given and undermines the efforts of members of the Vanguards Network to deliver affordable warmth to residents and local communities. DECC cannot allow this important initiative to be frustrated in the detail of legal interpretation by Ofgem.

Michael King, 30th August 2014

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Guest contribution

In this, our first guest contribution, Morten Jordt Duedahl of the Danish District Energy Partnership, offers his perspective on district energy in the UK. If you would like to contribute to a future edition of the newsletter, please email dave.hawkey@ed.ac.uk

Taking the next step: one-on-one sessions with Danish local authorities

Now is the time to speed up the recent district heating development and turn plans into pipes.

UK district heating on the right track with a need to speed up

The development of district heating in the UK requires that many things falls in place. Fortunately, Local authorities are making plans and developing business and ownership models; national authorities are providing direction and support and there is a keen interest in ensuring a sustainable and reliable supply of warmth. As DH actors, our task now is to consolidate this development and off course speed it up even more.

We now have the chance to turn initial action into real projects, i.e. pipes in the ground. Projects that will ensure we reach our goals of e.g. alleviating fuel poverty, lower carbon foot print and develop sustainable jobs.

15 local authorities from Denmark

To kick-start this, you are invited to participate in a district heating seminar specifically aimed at the local authorities. [The event takes place in London, October 2 – 3](#). The seminar will bring together leading Danish strategic and technical expertise with their UK counterparts. It's a unique opportunity to meet, exchange experience, discuss challenges and get inspired by the vast experience among all the delegates.

The program explores the most important opportunities and challenges to heat network development in the UK, and will develop synergies with Danish expertise. Participation is off course free of charge for UK participants.

One-to-one surgery sessions

The program also offers a unique match-making opportunity. These one-to-one surgery sessions will give all participants the opportunity to meet with specific representatives from across the district heating industry to search for solutions to their challenges. These short match-making meetings (each 12 – 15 min) have shown extremely powerful in determining a shared interest and agree on a next action.

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UK and EU Policy

Consultations, funding, conferences and workshops

2-3 Oct – [Sustainable Cities - District Energy and Water Management \(London\)](#) – this event aims to bring together leading strategic and technical Danish experts with UK local authorities and stakeholders who wish to learn from the Danish experience to inform the development of a new generation of UK heat networks.

29-30 Sep – [Scottish – Danish District Heating Camp: 6 challenges \(Copenhagen\)](#) – this workshop is for Danish companies and organisations to meet and work together with Scottish DH stakeholders.

16 Sep – [a heated debate: The potential of DH and the challenges that follow](#) – this seminar will take place from 1.30pm to 2.15pm at the Resource & Waste Management exhibition at NEC Birmingham.

10 Sep – [Scottish Renewables seminar: Harnessing Heat from Rivers \(Glasgow\)](#) – several cities and DH systems around the world such as Drammen in Norway, use heat pumps to collect low-grade heat from the rivers and lochs and deliver it at a higher temperature.

9 Sep – [District Heating: The Power Behind Scotland's Low Carbon Future? \(Edinburgh\)](#) – using the backdrop of the Government's recent [Draft Heat Generation Policy Statement](#) the expert panel will debate the numerous challenges to developing DH which include high capital costs, revenue uncertainty and phasing issues. This is an evening event.

1 Sep – [Heat Network Partnership – Finance Workshop \(Glasgow\)](#) – this seminar will consider the economics and risk profile for DH projects, provide information as to available funding and financing mechanisms, and how these can be matched to project objectives and business models.

28 Aug – [consultation launched to improve heat network design, build and operation](#) – the CHPA and CIBSE are seeking industry [feedback](#) on the new (draft) publication [Heat Networks: Code of Practice for the UK](#) which intends to raise standards right across the DH supply chain. **Deadline for responses is 8 Oct.**

18 Aug – [\(draft\) Community Energy Policy Statement for public consultation](#) – the Scottish Government are seeking to broaden the scope of community energy to encompass energy efficiency and demand reduction, low carbon energy supply and distribution, heat systems and energy storage. **Deadline for responses is 10 Nov.**

11 Aug – [ECO: consultation on revisions to the guidance for suppliers](#) - Ofgem are seeking views across four sets of questions which include pre-conditions for premises under [CERO](#) and [CSCO](#) for connection to a DH system. **Deadline for proposals is 22 Sep.**

8 Aug – [Your views on metering and billing DH schemes needed!](#) – the environmental charity [Changeworks](#) are looking for social landlords with experience of district or communal heating schemes to fill out a [survey](#) to describe what approaches they've taken to metering and billing, and what successes and challenges they've had.

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UK and devolved administration policy

21 Aug – [implementation of CPS relief – CHPA member briefing](#) – in Budget 2014, HM Treasury announced that fossil fuel CHP would receive relief from [Carbon Price Support](#) for all fuel used for electricity consumed ‘on-site’. The relief will then be available to all fossil fuel CHP plant, including those on DH networks, from April 2015.

18 Aug – [Scottish Government announce £20 million local energy fund](#) – the [Local Energy Challenge Fund](#) will offer grant and loan funding from April 2015 for major demonstrator projects providing transformative innovative local energy solutions.

12 Aug – [Ofgem publishes new Heat Use Template](#) – the template provides Ofgem with information necessary to determine eligibility for the Domestic RHI scheme if an applicant’s heating system provides heat or hot water to multiple buildings.

11 Aug – [DECC publishes new water source heat map](#) –the map shows that there is around 40 urban rivers and estuaries that could provide large-scale renewable heating supplies to local communities through water source heat pumps. View map [here](#).

6 Aug – [DECC publish D3 reports](#) –these two independently commissioned reports examine how demand side measures are considered in the policy development process across government, including in DECC’s whole system energy models, which are regularly used to help guide and evaluate policy proposals.

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UK News

21 Aug – [Local authorities are key players in our renewable energy revolution](#) –the report highlights that some Councils such as Aberdeen and Woking have developed smaller-scale ESCO models which provide renewable energy and DH to the local community.

20 Aug – [lessons from Denmark: how DH could improve energy security](#) – this article in the Guardian newspaper gives a rounded summary of the importance of DH in the UK’s energy future and has attracted over 100 comments from the public.

20 Aug – [tender for the St Mary’s DH Network \(Oldham\)](#) – the tender is valued between £3.75m to £7.5m and covers the operation, maintenance, servicing and refurbishment of plant and equipment for the St Mary’s DH network which supplies approx.1,420 homes and Oldham Leisure Centre. **Deadline for tender receipt is 1 Oct.**

20 Aug – [EfW plant hinted at with DH proposals \(North London\)](#) – the biggest signal yet that the North London Waste Authority will build a large new EfW plant at its existing Edmonton site came this week with proposals for DH nearby.

19 Aug – [DH spin-off from new London Hoola complex](#) – the development consists of two tower blocks providing 360 apartments and one commercial unit. In addition to DH the buildings will feature blue roofs which will manage surface water run-off, and storage.

18 Aug – [leading academic calls for Scotland to use heat pumps for DH](#) – Glasgow University Professor Paul Younger says that the city of Drammen, Norway, is heated by thermal energy from deep fjord waters using heat pump technology built in Scotland.

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15 Aug – [Corby EfW facility nears financial close](#) – the facility will be made ‘CHP ready’ so that if plans for a Resource Recovery Park at the adjacent Brookfield Plantation go ahead, the EfW facility could provide heat for the buildings via a DH pipe network.

15 Aug – [win £1,000 in Hidden Heat competition!](#) – the CHPA is searching for images to showcase the hidden nature of energy. Entries can feature any type of CHP or DH equipment in the UK ([see guidelines](#)). Deadline for entries is the end of Sept.

14 Aug – [housing association tenders £35m biomass DH project \(Fife, Scotland\)](#) – the scheme is aimed at delivering affordable heating and hot water to the tenants and residents of Cardenden. **Deadline for submission of proposals is 8 Sept.**

13 Aug – [tender -- Heat Pumps in District Heating Research \(DECC\)](#) – proposals are invited to provide technical research in the field of heat pumps and heat networks. **Deadline for submission of proposals is 12 Sept.**

12 Aug – [recruitment -- District Heating Gas Engineer \(Camden, London\)](#) – ideally previous experience would be advantage on working within DH / communal heating.

12 Aug – [plan for South Yorkshire rivers to be used to generate heat](#) – the Don, Dearne and Rother rivers have been identified among 40 urban rivers and estuaries with ‘untapped potential’ by the Government’s new [water source heat map](#).

10 Aug – [DECC publishes heat map to help developers identify heat pump locations](#) –the first system of its kind in the Thames provides hot water for 150 homes and a large hotel in Richmond Park, saving 500 tons of carbon emissions annually.

8 Aug – [Vital Energi to provide DH Network for the NW Cambridge Development](#) –the £2.98m contract is for the design, supply and installation of the main spine of the DH pipe network for the first phase of the [Development](#) which will ultimately see 20MW of heating supplied to 3,000 homes.

8 Aug – [CHPA briefing note and the 2014 DUKES Report](#) –the CHPA have prepared a [briefing note](#) to provide stakeholders with the main headlines from the latest [DUKES](#) publication and note any significant changes to the use of CHP in the UK.

6 Aug – [ECO programme helps deliver biomass communal heating \(Solihull\)](#) –the second phase consists of multiple [Ecoblox](#) prefabricated biomass energy centres to supply 1156 flats in 21 high-rise buildings The biomass systems replace electric storage heating and electric immersion heaters for hot water.

5 Aug – [Stoke-on-Trent City Council outline ambitious DH project](#) –the extraction of up to 45GWh of geothermal energy will cut the City’s carbon emissions by an estimated 12,000 tonnes a year and also offer improved energy price stability.

5 Aug – [tender - detailed feasibility study for DH networks \(Copeland Council\)](#) –the study will enable progression to a more detailed investigation and subsequent development of ‘investment grade’ heat network proposals. A [related tender](#) is for a feasibility study for the extraction of low grade heat from abandoned mine workings in Whitehaven. **Expression of interest end date is 5 Sept.**

4 Aug – [Aberdeen Heat and Power expand DH schemes](#) –the ESCo is now working on new energy centres for the Tillydrone and Cairncry areas each of which will house a 1MWe/1MWth Jenbacher 320 engine.

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4 Aug – [pre-tender for DH Network Feasibility Study](#) –Lincolnshire County Council is investigating the sustainability of a DH network powered by its recently commissioned EfW facility near Lincoln. **Completed questionnaires to be returned by 4 Sept.**

2 Aug – [tender - DH Metering \(Rotherham Borough Council\)](#) –a supplier is being sought for the supply, installation, commissioning and maintenance of heat meters, pre-payment meters and ancillary equipment. **Expression of interest end date is 12 Sept.**

1 Aug – [tender - DH network feasibility report \(Bradford Council\)](#) –a full technical and economic feasibility document is required to consider the benefits and issues of utilising different heat sources. **Expression of interest end date is 24 Sept.**

29 Jul – [bids invited for £30m biomass DH project \(Cardarden, Fife\)](#) –the system will supply heat for domestic and non-domestic buildings, plus 5MW of electricity. The contract will also include operating and maintaining the plant for three to ten years.

29 Jul – [pilot project to monitor DH network performance \(Wembley\)](#). –the project will test a system which uses wireless technology to monitor network performance, from the central plant to each home. Makers claim this will avoid “financial risk” for landlords who may not realise faults in the network and then have to fork out to make up the difference in bills.

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Europe

28 Aug – [Hungary could set up public utility holding next year](#) – the government official stated that, as well as reducing energy prices, electricity, natural gas and DH public services will be reorganised under a single umbrella group.

26 Aug – [agreement on further development of gasification technology](#) – one of the Finnish environmental technology flagship projects gaining international attention is the new gasification-based EfW plant solution, developed by [Valmet](#) with [Lahti Energia](#).

24 Aug – [tenders required for controlling the operation of a DH system](#) – the plant is located in Cherbourg-Octeville, France. **Deadline for receipt of tenders is 1 Oct.**

23 Aug – [tenders required for DH mains construction work \(Budapest, Hungary\)](#) – the total estimated value of the contract is approximately €2.2m.

22 Aug – [agreement signed for world’s largest solar heating plant \(Vojens, Denmark\)](#) – the majority of the energy will be produced in summer the surplus of which will be stored in a basin consisting of around 195m liters of water for use in wintertime.

22 Aug – [Lutsk DH project - project implementation support \(Ukraine\)](#) – [Sida-EBRD](#) are seeking consultancy services up to maximum of €490k in value to support the upgrade of the Lutsk municipal DH utility. **Deadline for expressions of interest is 19 Sept.**

20 Aug – [KPA Uicon to supply biomass-fired heating plant to Imatra \(Finland\)](#) – the €10m plant will output 30 MWth in the form of hot water for the local DH network replacing natural gas-based DH production. The plant will be fueled from local wood-based biomass such as forest residues but can also utilize peat as fuel.

8 Aug – [NIB makes €27m loan for DH upgrade and biomass plant \(Gjøvik, Norway\)](#) – the new 12MWth bio-fuelled energy plant will replace several oil based heating plants and reduce annual CO₂ emissions by around 14,800 tonnes.

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7 Aug – [ElectraTherm commissions 10 Green Machines on DH system \(Slovakia\)](#) – the machines use water at 77-116°C to heat a working fluid into pressurised vapor, based on the [Organic Rankine Cycle](#) and proprietary technologies, to drive an electric generator.

1 Aug – [tender for DH plant construction work \(Šentjernej, Slovenia\)](#) – the tenders cover plant construction work (€42.73m) and heating-system design services (€5.93m). **Tender document receipt deadline is 15 Sept.**

29 Jul – [landfill gas to power microturbine in CHP-DH project \(Jyvaskyla, Finland\)](#) – the electricity from the [C600 microturbine](#) is sold directly to the energy utility and the exhaust heat is captured with an 850kW heat exchanger for DH.

28 Jul – [contract secured for first example of waste-fired DH \(Laval, France\)](#) – the €17m contract to extend, upgrade and operate the municipal DH network will use biogas and [SRF](#) to increase heat production from 35GWh to 75GWh per year. **May require translation.**

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The Americas and Africa

27 Aug – [18-storey luxury condo is latest to plug into DE system \(Guelph\)](#) – the Mayor, Karen Farbridge, said that it's crucial to have "early adopters" for such innovative initiatives, those willing to take a leap of faith to join in.

22 Aug – [Macquarie confirms sale of DE business, Thermal Chicago](#) – the company sold its 50.01% controlling interest for \$270m stating that the business generates an IRR of more than 20%. [Thermal Chicago](#) comprises operations in downtown Chicago and provides cooling services to approx. 100 high-rise buildings and operations in Las Vegas.

22 Aug – [planning setback for biomass DH system \(Cook County, Illinois\)](#) – lack of grant money (\$4.5 million from a 2014 legislative bonding bill) and higher than expected construction bids have, at least temporarily, setback the [Grand Marais project](#)

21 Aug – [greater deployment of CHP crucial to lowering carbon emissions](#) – New York City, for example, has operated a DH system that uses CHP since 1882 (article).

19 Aug – [Edmonton pushes for carbon tax to fund district energy](#) – the City Councillors want revenue from Alberta's carbon tax on heavy pollution emitters to be designated towards an underground DE system in the Quarters district of the city.

11 Aug – [\\$12.3m geothermal expansion approved \(Richmond City, Canada\)](#) – the utility, ADEU, which currently services two developments with more than 600 units, is now set to triple in size by 2018 when it will service 10 units including a commercial retail site.

5 Aug – [Upgraded DH system described \(Montpelier, Vermont\)](#) – the \$15m plant upgrade includes two new dual-fuel steam boilers (woodchips or heating oil), an automated wood handling and conditioning system and an electrostatic precipitator system to remove and collect particulates from the flue gases. See also "[Making it Work](#)"

5 Aug – [US DoE deploys NGDS \(National Geothermal Data System\)](#) – the NGDS is an online, open-source platform that facilitates discovery and use of subsurface geothermal data for research and energy production.

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China, Asia and Australasia

29 Aug – [Alfa Laval receives DC equipment manufacturer award](#) – the heat exchanger manufacturer Alfa Laval has received the Asia Pacific District Cooling Equipment Manufacturer Award 2014.

27 Aug – [Simons Green Energy wins ENER-G cogeneration award \(Australia\)](#) – among its recent customers is Club Banora, a sport and recreation resort. The club will cut annual energy costs by approximately \$125,000 and reduce carbon emissions by 30% with a new ENER-G 230 kW trigeneration system.

20 Aug – [Empower begins commissioning of green DC facility \(Dubai\)](#) – the plant will be the region's first to be built in line with green building principles and will provide 45k RT of cooling services to developments in Dubai's Business Bay.

18 Aug – [request for proposals to supply DH pipelines \(Yichun City, Xinqing\)](#) – the project is being part funded by the [ADB](#). **Proposals are due by 12 Sep.**

11 Aug – [Emicool signs \\$245 million refinancing facility with Dubai Islamic Bank](#) – the 12-year facility will largely refinance Emicool's existing debt and also fund the company's expansion of operations to Saudi Arabia and Qatar.

8 Aug – [New Zealand examines Swedish approach at bioenergy conference](#) – a keynote speaker will be from Borås Energi which provides the fossil fuel free city of Borås with municipal utilities such as DH, DC, biogas, waste management and sewage treatment.

7 Aug – [collapse of DH system sees uptake of electric heating \(Tajikistan\)](#) –after the break-up of the Soviet Union, regional energy cooperation was disrupted and the state was unable to invest adequately in the maintenance of the national energy infrastructure.

6 Aug – [Empower's July peak DC consumption up 9.4%](#) – the company provided a total of 174.3m RT per hour in July which is usually the time of highest demand for cooling but the increase also reflects the company's expanding customer base.

31 Jul – [India's first integrated smart city wins Cisco Technology Award](#) – the city, Gujarat International Finance Tec-City, features infrastructure facilities such as DC which are all managed and monitored via the "City Command and Control centre (C-4)". .

17 Jul – [DH network rehabilitation project approved \(Karaganda, Kazakstan\)](#) – the [ADB](#) approved a \$1.6m loan to upgrade 7 pumping stations, replace 127km of pipelines and modernise metering, instrumentation and controls.

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Conferences, symposiums and forums

14-15 Dec – [IDEA announce 6th International DC Conference \(Dubai\)](#) - participants will explore how district cooling enables greener buildings, critical water savings and a smarter electricity grid.

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10-11 Nov – [6th Annual Middle East DC Summit \(Doha, Qatar\)](#) – this event will see the participation of a broad range of global and regional government authorities, decision makers and stakeholders with an interest in district cooling projects in the region.

5 Nov – [Energy4PowerLive \(London\)](#) – this event will be held at the Queen Elizabeth Conference Centre and will offer four conferences on one day, with both indoor and outdoor exhibition opportunities.

8-9 Oct – [Nextgen 2014: bioenergy and renewable energy event \(Warwickshire\)](#) – this event will give prospective and existing DH practitioners insights into the opportunities and challenges around financing, installing and maintaining renewable technology systems.

30 Sep – 2 Oct – [Nordic District Heating Fair \(Jonkoping, Sweden\)](#) – the fair will include seminars and study tours as well as suppliers covering the areas of DHC, CHP, fuels, fuel handling, combustion technology, power production, logistics, control systems etc.

22-23 Sep – [European Conference on Geothermal DH \(Brussels\)](#) – the event will cover the potential for geothermal DH in Europe as well as financing, business models, and regulation. The second session will cover technological developments with a focus on the [Horizon 2020 programme](#).

6-10 Sep – [14th International Symposium on DHC \(Stockholm\)](#) – this event aims to gather the international research community around issues important for DE development.

8 Aug – [notes from the CHPA-ARUP DH conference workshop sessions](#) – the short report ([here](#)) is a summary of the four afternoon workshop sessions.

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General interest, technology and research

Oct 2015 – [Advanced DHC systems by Robin Wiltshire](#) – this 406 page hardcover book due to be published in October 2015 promises to cover every aspect of DHC.

22 Aug – [Advanced Energy Technologies for Greenhouse Gas Reduction](#) – this 40 page report from [Advanced Energy Economy](#) is an accessible and useful summary.

21 Aug – [Application of SOA for Sensors and Actuators in DH Substations](#) – this study presents a new concept of DH substation control and monitoring, where a service oriented architecture ([SOA](#)) is deployed in a wireless sensor network ([WSN](#)).

19 Aug – [determination of optimal pipe configuration and diameters for a DH system](#) – this study analyses a DH system at the Tata steel site using a case study comprising a number of buildings which are currently heated with a gas boiler.

15 Aug – [heating, cooling, and electrical load forecasting for a large-scale DE system](#) – this study forecasts cooling, heating, and electrical loads for a DE energy system using several different model types including: linear and nonlinear; static and time series.

14 Aug – [modelling and optimal operation of a small-scale integrated DHC system](#) – this paper presents a comprehensive model of a small-scale integrated energy based DHC system located in a residential area of hot-summer and cold-winter zone, which makes joint use of wind energy, solar energy, natural gas and electric energy.

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13 Aug – [Green Technology Spotlight - heating homes from rivers or seawater](#) - article.

13 Aug – [Swedish bank SEB tops green bond league table](#) – the green bond market is growing fast and is set to play an increasing role in the shift to a low carbon economy including the financing of DH projects.

7 Aug – [Fuel Driven Heat Pumps](#) – this research represents the UK contribution to IEA Heat Pump Programme Annex 43. The project aims to identify the potential key market and technical barriers to deployment of gas driven heat pumps.

5 Aug – [innovation extends district heating](#) – an upbeat assessment of the prospects for DH from Steve Hodgson, contributing editor, [COSPP](#)

29 Jul – [analysts point to potential cost gains from DH](#) – analysis in this report by [Lux Research](#) says DH's potential can be better exploited and can deliver cost gains of up to 74% over conventional distributed heating, if obstacles are overcome.

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