PRESS RELEASE

03 October 2019

Heat pump industry rises to meet Manchester's low carbon challenge

Home heating accounts for 17% of all UK carbon emissions

Reducing or eliminating domestic carbon emissions will involve transforming the UK's entire housing stock through a combination of improved insulation, behavioural change and a reduction in the use of carbon intensive heating. For Manchester and the wider city region, this equates to retrofitting up to 1.2 million properties, while ensuring that new homes are built to the highest possible standard.

Working with Manchester City Council, Manchester Climate Change Agency and wider stakeholders, Low Carbon Homes opens on the 14th November at Manchester's Friends Meeting House to tackle the particular challenges of retrofit across the city region. A major new feature of the free-to-attend event is Heat Pump Focus - an event within an event - in which heat pump associations, manufacturers, system designers and installers will demonstrate the role of heat pumps in helping Manchester meet its 2038 zero carbon ambition.

This week, the UK Government issued a consultation on their proposed Future Homes Standard, involving a major review of Building Regulations, which affect how new homes are specified and constructed. A further consultation is anticipated soon to address the more complicated issue of existing homes. The current consultation proposes that widespread use of energy efficient technology is deployed to reduce the carbon impact of domestic heating, (which accounts for 17% of UK emissions) including heating system design suitable for heat pumps.

Although not a new technology, heat pumps (which can be up to four times more efficient than conventional electric or gas heating, emitting up to three times less carbon than gas combination boilers) have not been widely adopted in the UK for various historic reasons but are widely adopted in other North European Countries such as Sweden, Estonia, Finland and Norway. With the industry assembled on 14th November, Heat Pump Focus provides a unique

opportunity for housing professionals to explore and better understand the benefits of heat pumps - at all scales of development - from individual properties to heat networks, and how to utilise the natural thermal energy stored in ground, air and water. Presentations and Q&A sessions will cover technology fit, current policy and longer-term direction of the heat pump industry in pursuit of net zero. Heat Pump Focus contributors include:

The Ground Source Heat Pump Association (GSHPA) - not only supporting its members, but also with a wider mission to promote the technology and inform consumers.

NIBE Energy Systems - combining renewable energy with new smart technology, offering effective solutions to create a more sustainable future.

Vaillant - has low carbon heating and hot water systems ready to be installed and fit-for-purpose for UK homes so we can take climate action now.

Infinitas Design - Heat pump solutions for multiple domestic properties using shared ground loops, heat networks, energy centres and heat interface units. Air and ground source.

Kensa Contacting - have a number of schemes in Manchester, demonstrating the capability of shared loop technology as a route to large scale zero carbon heat supply.

Star Renewable Energy - insight on UKs largest high temperature (>80C) river source heat pump, delivered by Vital Energi in Clydebank, which will serve new and existing buildings.

Other contributors include the Heat Pump Association, LG and Daikin.

ENDS

Notes to editors, logo and images on following pages

Notes to editors

Free tickets: https://lowcarbonhomes.uk/event/low-carbon-homes-forum-manchester/
Twitter @lowcarbonhomes
Web lowcarbonhomes.uk
e: info@cogentevents.com

Low Carbon Homes, created and organised by Cogent Events, brings global domestic energy efficiency innovation to the UK's regions via a nationwide event series – the Low Carbon Homes Forum - focussed on the particular challenges of retrofitting the UK's existing 25 million homes, the heating of which is responsible for 17% of the UK's carbon emissions.

Aimed at architects, heating engineers, local authorities, landlords, contractors and related sector professionals, the free-to-attend event features plenary sessions, practical workshops, training and exhibitors covering interests such as the fabric first approach, heat pumps, heat system design, BEIS trials and local policy and supply chain development.

Low Carbon Homes wants to drive the adoption of new energy saving standards by providing a unique platform. Here, professionals can share best practice and discover pioneering methodologies and products to help transform home efficiency, reduce fuel poverty and lower carbon emissions.

Low Carbon Homes seeks to address 5 key challenges:
Change: apathy and resistance to change – key influencers are unmotivated to recommend change; easier to 'do nothing'
Cost perceptions: unconvincing ROI
Confusing/conflicting information: competing advice from experts
Complexity: technological complications – pace of innovation difficult to keep up with
Consistency: inconsistent government policies – financial incentives reducing with fluctuating priorities

Press contact
Graham Lock
tel: 07917 847552
e: graham@cogentevents.com

Heat Pump Focus

LowCarbonHomes

Local Focus National Impact

Forum North West

lowcarbonhomes.uk

14 November 2019

Friends Meeting House

Manchester

Supported by

MANCHESTER CITY COUNCIL

ZERO CARBON MANCHESTER

MANCHESTER CLIMATE CHANGE

PLAN | PARTNERSHIP | AGENCY

Figure 1 Bean Beanland, Chairman, Ground Source Heat Pump Association

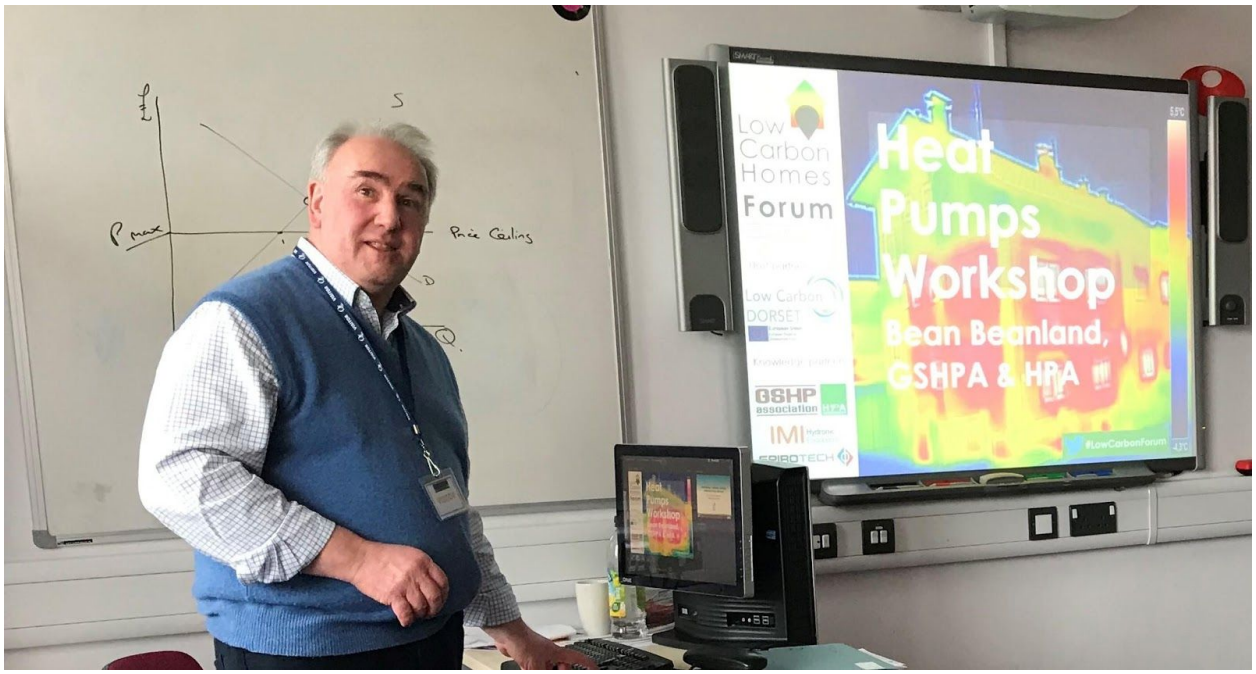

Figure 2 Vaillant Air Source Heat Pump

Figure 3 Infinitas Design - plant room

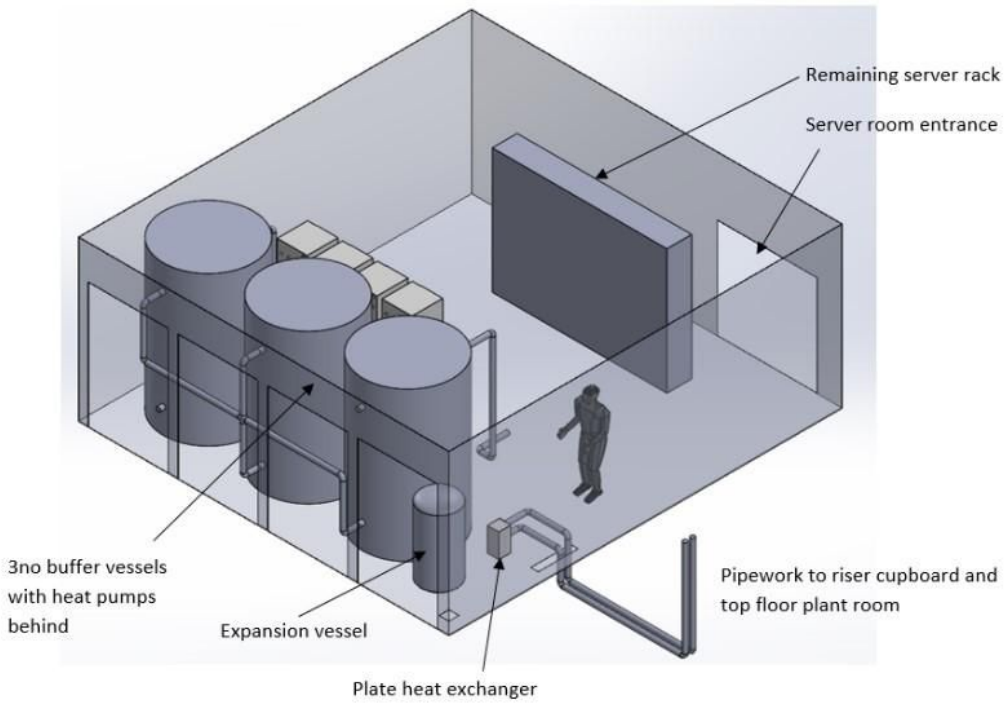

Figure 4 Kensa Contracting: Shared ground loop arrays and ground source heat pumps enable low carbon community heating

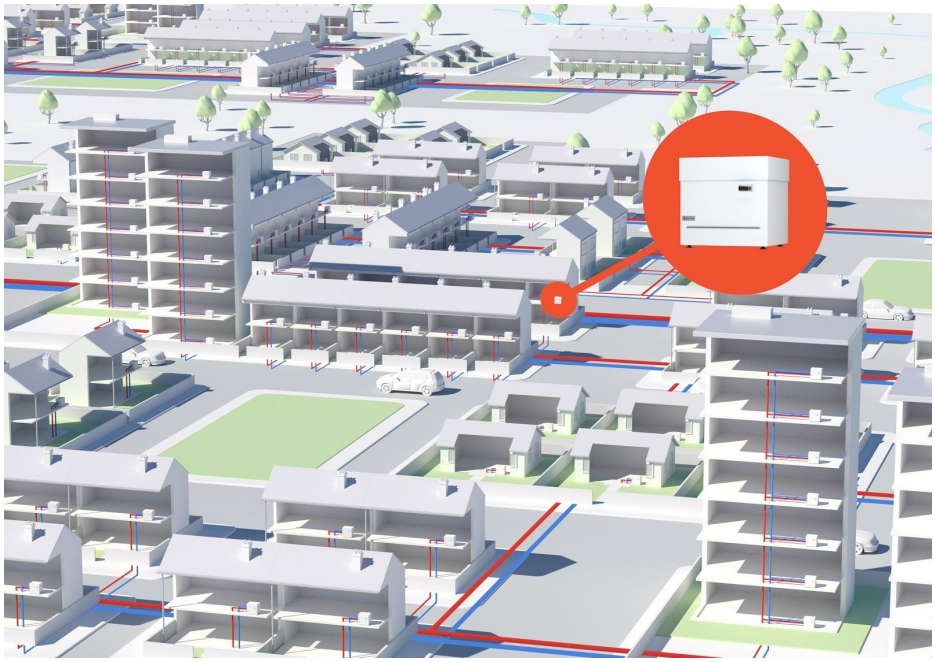

Figure 5 NIBE Ground Source Heat Pump

Figure 6 Star Renewable Energy - Queens Quay Heat Pumps