UK National Health Service makes pioneering energy breakthrough

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UK National Health Service makes pioneering energy breakthrough and achieve gas savings of 80% by switching to free daylight

LONDON, UK. August 18th, 2014 – Surface Power HONE, a manufacturer of innovative proprietary daylight thermal systems (DTES) for domestic and commercial buildings, today announced the success of a landmark project with the UK National Health Service in Northern Ireland.

One of the biggest trusts in the UK National Health Service, the Belfast Health and Social Care Trust have installed a Surface Power HONE daylight heating and hot water system to reduce their gas bills.

Their new Nanotechnology energy systems are up to 50 times more efficient than existing renewable heating systems. This new technology harvests free daylight as the fuel source 365 days of the year and it can be used instead of oil and gas for heating or hot water production at high temperatures.

John Quinn, CEO of London-based Surface Power, says that this NHS installation is part of the UK's renewable heat incentive payment (RHI) scheme and has both OFGEM and Belfast Trust metering in place so live data is immediate.

The first month's results clearly showed the power of this new technology which delivered an immediate gas reduction of 80% and a COP of 1:221. To put this result into a bigger context; this DTES heating technology would only require one small 850KW boiler to provide all the annual heat and hot water for 100,000 homes saving up to 300,000 tonnes of CO2 and £82 Million in gas heating cost annually;" he says.

John Quinn added "The benefit of harvesting free daylight at high temperatures can only be achieved with advances in technology and in this case Nanotechnology. The world's existing renewable heating technologies are quite old and we have a big energy and carbon problem to solve. We will only do this with new disruptive energy technologies"

George McCraken, Head of Estates for the Belfast Trust, says:"Surface Power HONE is a new technology in the area of renewable heating. We have achieved a healthcare first in Ireland and the UK by deploying it to provide full service heating and hot water provision on a hospital campus. The ability to harness new technologies especially ones that work on daylight as a fuel input are fundamental to the UK National Health Service cutting its energy and carbon costs".

Chris Mullan, Principal Engineer with White Young Green, says "Surface Power Hone have provided the Belfast Health Trust with an exciting new technology from which the benefits have been evident. We fully designed the system in conjunction with Surface Power Hone and co-operation between the entire design and contracting team ensured it was integrated into the existing building systems with minimal disruption. A substantial reduction in heating and hot water energy consumption has been realised with the obvious financial and environmental benefits this brings. Overall a great success."

Alan Poots, Director of CA Services added: "As an experienced installer of renewable heating, we found this installation to be quite simple. What has surprised everyone are the temperatures that this new technology is achieving from daylight even in poor cloudy weather, it's clear this technology is extremely powerful and will become very popular.

In July, 2014, Surface Power's HONE Nanotechnology recorded a COP of 1:221 at the Musgrave Park Hospital installation, yielding 55 times more free heating energy than a typical heat-pump. This Musgrave Park Hospital site is part of the UK Government's Renewable Heat Incentive tariff scheme and all data is measured by OFGEM (UK Energy Regulator) certified meters. Further details and data are available from Surface Power upon request.

COP is Co-efficient of performance. It's an engineering measurement. In

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simple terms for this project, it means that for every 1 kWhr consumed, the HONE daylight system produced 221 kWhrs of free heating. 15p worth of energy created £8.28 worth of free heating at 3.75p/kWhr (gas) in this case.

About Surface Power HONE Surface Power HONE is a global innovator and manufacturer of leading edge proprietary thermal Nanotechnology. This gives superior performance over legacy renewable heating products and can even harvest heating energy whilst it is raining. It holds the highest certified performance for a thermal system in the world and its systems hold some of the world's toughest standards such as MCS, SRCC and Energy Star. www.surfacepower.com Surface Power HONE is a subsidiary of the Photonomi Group. www.photonomi.com

About Belfast Trust Belfast Health and Social Care Trust is one of the largest Trusts in the United Kingdom and delivers integrated health and social care to 340,000 people in Belfast and part of the Borough of Castlereagh. It also provides specialist services to all of Northern Ireland. With an annual budget of approximately £1bn (spending about £3m each day) and a staff of 20,000. http://www.belfasttrust.hscni.net/

White Young Green WYG is a global programme, project management and technical consultancy with a difference. Our in-house team brings together 1,400 specialists from a diverse set of disciplines. Our connections expand even further as we bring together a network of over 20,000 partners and associates from around the world. http://www.wyg.com

CA Services CA Services are a special renewable heating contractor based in Belfast, Northern Ireland. www.caservices1.com

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