

VAT CHANGES AHEAD

GSHPA's understanding of 5% VAT consultation issued by HMRC

With thanks to the Sustainable Energy Association who we liaise closely with on these changes, we note that the HMRC issued consultation (released 9th Dec and closing on 3rd Feb) on the "Changes to the reduced rate of VAT for Energy Saving Materials". This consultation has been issued because of a ruling by the European Court of Justice.

In this consultation document Solar, Wind and Hydro have been excluded from 5% VAT but GSHPs have been included alongside other measures. However, a new social policy test has been employed whereby the 5% can be applied to relevant housing association and relevant residential purpose (e.g. care homes, children's homes, etc.) or a "qualifying person" – someone who is aged 60 or over or who is in receipt of one or more of a series of welfare benefits.

In addition, because of a separate provision, reduced rates can also apply without passing the above social policy test, provided that it constitutes "renovation and repairing of private dwellings, excluding materials which account for a significant part of the value of the service supplied". SEA were told by HMRC that 50% has been confirmed by the Commission as the threshold that would be considered "significant" when interpreting this provision. Therefore, reduced rates can also apply to private dwellings regardless of whether or not a social policy test is met under the following circumstances:

- a. Where the materials are less than 50% of the total cost (excluding VAT), the full cost would attract the reduced rate.
- b. Where the materials are more than 50% of the total cost (excluding VAT), the reduced rate only applies to costs other than the materials.

GSHPA will continue to work with and liaise with SEA on this matter to make sure that we obtain the best deal possible for the ground source sector. Please contact us at the GSHPA if you need any more information.

David Matthews CEO.

JANUARY 2016

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Contact Andrea Ellison at
andreamellison@aol.com or via the
GSHP website if you would like to
feature your business in the
newsletter.

ENERGY NOW EXPO 2016

No members took advantage of the heavily discounted rate for exhibition space for GSHPA members to exhibit at the ENERGY NOW EXPO 2016 on 10th and 11th February in Telford but we are offering the facilities to put your company brochure and business cards into a free handout bag to all visitors for a small cost of £100, which you hope is fantastic value to get your company details out to potentially new customers.

(This service is free of charge to all main sponsors).

If you would like to take advantage of this facility please forward your items to Sam Ellison at Dragon Drilling (Water & Energy) Ltd, Brickfields Lane, Ruthin, Denbighshire LL15 2TN by 5th February.

Thank you to those who have already taken up the offer.

Any members who would like to lend a hand on the GSHPA stand are welcome to contact Sam who will timetable you in.



BECOME A MAIN GSHPA SPONSOR

Should you wish to become a main sponsor of GSHPA and enjoy all the advantages this brings, then please contact us via the website to obtain further details.

Advertising Items Required



EMC are still offering
5% discount to all
GSHPA members on
all items ordered

If any **members** would like a flyer, business card or other item including in the goodie bags to be handed out at Energy Now Expo 2016 on 10th and 11th February in Telford then please could you get 100 of each item to

Mr. Sam Ellison, Dragon Drilling, Brickfields Lane, Ruthin, Denbighshire LL15 2TN

Can all the **main sponsors** of the GSHPA please get flyers and /or other promotional items you would like to be in the GSHPA goodie bags to Andrea by 5th February to ensure you are represented at any events the GSHPA are at? This was inclusive of the sponsor fee and most items were handed out at the Ricoh.

If you could get 100 of each item to

Mr. Sam Ellison, Dragon Drilling, Brickfields Lane, Ruthin, Denbighshire LL15 2TN

Northwood Farm,
Coxbridge Road,
Baltonsborough,
Glastonbury Somerset

Company of the Month



Jackson Drilling Ltd has recently taken stock of a new rig bought specifically for Geothermal drilling and water boreholes.

“We get asked to drill a lot of holes in Greensands and suchlike, and although we have managed to achieve this successfully with one of our older rigs, we needed something more powerful and modern to make us more competitive.”

Fred Jackson also told us that this is a big investment for Jackson Drilling but one that they feel is essential to be able to take on the larger geothermal drilling contracts.

For more information visit their website

www.jacksondrilling.co.uk

Clive Hall, Chief Executive of Eventure Media Ltd, is pleased to offer you a free subscription to the online digital version of Environment Times - register [HERE](#).

Future Events

For the academics and techies in our UK GSHP community:

If anyone fancies a trip to Dallas in 2017 - then the call for papers for IGSHPA's International Technical Conference has gone live.

This is a much expanded attempt to attract International participation - headed up by Jeff Spitler at IGSHPA / Oklahoma State University.

Devoted entirely to GSHP technology, i.e. there is no conventional, "deep geothermal" activity.

There is also the more imminent European Geothermal Conference 2016 in Strasbourg, for which Abstracts have already been submitted and are currently being adjudicated. A large section of this conference will be devoted to GSHPs - other sessions will focus on other aspects of "geothermal" science, technology and policy.
<http://europeangeothermalcongress.eu>

Information provided by Council Member Robin Curtis of Geoscience.

The Marketing Committee are wanting to host a number of local events, from small breakfast meetings to whole day events, but with limited personnel it is proving somewhat difficult to organise.

Should you be able to offer help in organising an event in your area then please contact us via the GSHPA website where the MCC members can work with you in planning and hosting.

GSHPA EXPO 2016

DATE FOR YOUR DIARY

The MCC have begun planning our second EXPO event and the date decided upon is

Wednesday 14th September 2016

One venue, Aston Marina near Stone in Staffordshire looks favourable as there is a full on-site installation, but if any members have an alternative suggestion then please let us know via the GSHPA website or Andrea on 07766 148193 before 31st January 2016.



Members of the Marketing Committee (MCC) will be attending the following events on behalf of GSHPA in 2016:

Energy Now Expo, Telford 10th and 11th February

Eco-Build, Excel, London 8th – 10th March

All Energy, SECC, Glasgow 4th & 5th May

If any member would like to join the MCC staff on one of the stands please contact Andrea on 07766 148193 or via the GSHPA website.



With the IGSHPA Technical/Research Conference and Expo entering its 29th year, and with recent conferences averaging over 400 participants, this is the conference to bring you up-to-date on the latest in the ground-source heat pump industry. You can be a part of this tradition by presenting your research at the upcoming conference. In addition to presenting your research, you will be able to see the state-of-the-art and network with other experts and industry leaders.

Denver, Colorado, Crowne Plaza Denver Airport Convention Center

March 14-16, 2017

Announcement and Call for Papers

The International Ground Source Heat Pump Association is pleased to announce the IGSHPA Technical/Research Conference will take place in Denver, Colorado on March 15th and 16th, 2017. For the first time, peer-reviewed research papers will be presented at the conference in a special research track. After the conference, these papers will be published in freely-accessible electronic proceedings that will be available on the IGSHPA website.

<http://www.igshpa.okstate.edu/conf/>



Papers are invited that cover research in any topic related ground-source heat pump (GSHP) systems and ground heat exchangers (GHE). These topics include:

- Design of ground heat exchangers□
- Performance of alternative GHE designs□
- Modeling and simulation of ground heat exchangers
- Validation of GHE and GSHP system models
- Thermal response tests for measurement of ground thermal properties
- Optimal control and operation of ground heat exchangers and GSHP systems
- Modeling of simulation of GSHPs and GSHP systems□
- Measured performance of GSHP systems
- New system configurations and supporting models
- Oft-neglected phenomena (moisture transport, freezing/thawing, near-surface effects)

Important Dates

- Abstracts due: April 15, 2016
- Abstract reviews finished and authors notified: May 31, 2016
- Papers due: September 1, 2016
- Paper reviews complete and authors notified: December 1, 2016

Executive Scientific Committee

- Jeffrey D. Spitler, Oklahoma State University, USA (Chair)
- Michel Bernier, Polytechnique Montréal, Canada
- Zhaohong Fang, Shandong Jianzhu University, China
- Signhild Gehlin, Swedish Centre for Shallow Geothermal Energy, Sweden
- Simon J. Rees, University of Leeds, UK

International Scientific Committee

A.Narsilio, U.Melbourne, Australia	F. Loveridge, University of Southampton, UK
W. Johnston, U. Melbourne, Australia	H.Ö. Paksoy, Cukurova University, Turkey
Helsen, KU Leuven, Belgium	J. Acuña, KTH, Sweden
Lamarche, École de technologie supérieure, Canada	S. Javed, CTH, Sweden
P. Pasquier, Polytechnique Montréal, Canada	G. Hellström, NeoEnergy, Sweden
K. Midttømme, Christian Michelsen Research AS, Norway	J. Claesson, Lund University, Sweden
J. Corberán, UPV, Spain	C. Montagud, UPV, Spain
A. Chiasson, University of Dayton, USA	R. Beier, Oklahoma State University, USA
P. Younger, University of Glasgow, UK	X. Liu, ORNL, USA
R. Curtis, GeoScience, UK	C. Underwood, U. Northumbria, UK
J. Raymond, INRS, Canada	H. Zhang, Hunan University, China
N. Diao, Shandong Jianzhu University, China	O. Cauret, EDF R&D, France
M. Philippe, Bureau de recherché minière, France	B. Sanner, EGEK, Germany
D. Bauer, University of Stuttgart, Germany	H. Yang, HKPU, Hong Kong
M. Fossa, University of Genoa, Italy	R. K. Ramstad, NTNU, Norway

Edward Thompson received the following email and shared with members on a separate email, but we have included here for your information:

As someone interested in UK energy, I would like to let you know about the UK Energy Breakfast Seminar, kindly sponsored and supported by Atkins, which takes place on Thursday 28 January 2016 at the Royal College of Surgeons of England, 35-43 Lincoln's Inn Fields, London WC2A 3PE, commencing at 8am.

The breakfast event is entitled: **UK Energy - Analysis and Vision** and details can be found at <http://www.rushlightevents.com/rushlight-show/ukenergy/>. Once again, this breakfast seminar opens the Rushlight Show.

If you have been involved in any aspect of energy in the UK, you must have asked yourself what is the vision for the UK energy system that we are working towards. For the first time, and with the kind support of Atkins, Jeremy Pocklington, now Director General Markets & Infrastructure at DECC having spent the last three years at HM Treasury, will present DECC's vision of UK energy and how the trilemma will be addressed. The presentations will set out the current position and the way forward for UK energy, looking at onshore and offshore wind, solar, bioenergy, marine energy and hydro, nuclear, fracking, coal-fired power station closures, geothermal, natural gas and other heating and cooling systems, both with what remains of the subsidy arrangements and then without any subsidy support. The questions to be answered include:

- How will all these energy sources fit together to provide a secure, affordable low carbon energy system in the near future and what is DECC's expectation of the mix and the subsidy support to achieve it?
- How can nuclear be aligned with the affordability requirement, given the Hinkley Point pricing that has been set and the cost of the nuclear legacy that DECC is managing currently?
- Where does CCS fit in and how will it be taken forward from here?
- What role will biomass play without the support of the CCL exemption?
- What reliance is being placed on the development of utility scale energy storage or is demand response the key offset for fluctuations in supply and demand, or perhaps a combination of the two?
- What part will renewable heat play in the mix?

DECC are fully engaged with this event and will be setting out their vision for UK energy. This is a great opportunity to understand how the UK will address the targets that have been set to address the energy trilemma and to ask DECC the questions that you have been wanting to have the opportunity to ask for a long time.

Agenda

8.00am	Cooked breakfast and networking
Chair:	Philip New , Chief Executive Energy Systems Catapult
8.35am	UK Energy Market Analysis: Craig Edgar , Head of Future Energies, Atkins
8.55am	The Regulations that will achieve the goals: Jeremy Pocklington , Director General Markets & Infrastructure, DECC
9.10am	Energy Trader perspective: Jonathan Lydiard-Wilson , Managing Director, Accenture
Operations	
9.25am	Panel discussion and Q&A, augmented by Sara Bell , CEO Tempus Energy Richard Black , Director Energy & Climate Intelligence Unit
10.00am	Networking and Exhibition
11.00am	Event closes for delegates who are registered for just the UK Energy event
This is a must attend event for anyone involved in any aspect of UK Energy, whether as a developer, technology provider, adviser, in the service or supply chain, investor, financier, consultant, analyst, media or other interested party.	

Attendees can choose:

Either- to register and attend the whole Rushlight Show, in which case the UK Energy Breakfast Seminar event is free

Or - just attend the breakfast and seminar as presented above, in which case registration is £35 plus VAT.

To register, please click [HERE](#).

The Rushlight Show is now in its 7th year and attracts up to 500 cleantech CEOs and entrepreneurs, investors, financiers, advisers, corporate customers and others involved in the sector. It comprises the following:

1. An **Exhibition** of the latest innovations in cleantech, including a number of entrants of the Rushlight Awards, with over 50 organisations represented..
2. The **Funding Cleantech Conference**, which covers grants, DECC Energy Entrepreneur's Fund, Innovate UK funding and other aspects of funding cleantech companies, a crowdfunding session, and a range of opportunities for delegates to present their companies and funding requests to expert panels of active cleantech investors.
3. The **Resourceful Conference**, kindly supported by the KTN and in association with LCRN, which focuses on the development of maintenance and repair, reuse, sharing, renting, remanufacture and activities and collaborations in that area, with direct input from local authorities, companies, waste operators, government departments, community schemes and investors.
4. The **Sustainable Solutions Market Panel**, where cleantech companies can present their products and services directly to a panel of leading sustainability and procurement representatives from corporate UK who are seeking to further their supply chain sustainability and resilience, including Tesco, Interserve, Premier Farnell, Diocese of London, Guy's & St Thomas' NHS Foundation Trust and Heathrow Airport Ltd.
5. **UK Energy breakfast seminar**, setting out an analysis of the current economics for all the different sources of power generation, with and without subsidies, and a presentation of the UK Energy Market Strategy.

Further details are available at <http://www.rushlightevents.com/rushlight-show>.



orangenergy
renewable energy consultants



www.orangenergy.co.uk
www.aquadrill.co.uk

OrangEnergy and their sister company, Aqua Drill, have just completed a 150KW GSHP system using an open loop borehole system. The GSHP system is powered by a Micro Hydro running off the River Thames, and a separate potable water supply is being used for all water within the building. Sonning Mill is a Grade 2 listed building and is almost 100% sustainable in its energy requirements as all heating, hot and cold water and electricity are from renewable sources.

OrangeEnergy were runners up at the Heating & Renewable Awards for Commercial Install of the year.

To contact OrangEnergy call David Nelson on 0771 7741 123
email david@orangenergy.co.uk

