

"Micro-renewables for Buildings and Transport - Deliverables and Barriers"

Wednesday 18th April 2012 - Registration is open now

Location: The Lindsay Stewart Lecture Theatre, Craiglockhart Campus, Edinburgh Napier University, EH14 1DJ

Time: 0930 - 1600

Summary:

From 2013 to 2020, the next 7 years represent a key stage in Scotland's ambitions to reduce greenhouse gas emissions and improve energy efficiency.

The second stage of the Sullivan report for the 2013 energy standards in new buildings will be due for consultation this year. The finer details of the Green Deal will come before parliament for enactment in 2012/13. The changes in transport mode, future fuel systems, electrification of cars or alternative energy systems and the future turn-key infrastructure required are reaching key milestones in research and development.

This conference will address some of the opportunities, challenges and advancements being undertaken in these areas. The range of speakers from universities and companies will provide useful insights to current and possible future states of play.

This conference provides the opportunity to discuss and review the challenges ahead, bringing together some of the examples from the Low Carbon Building Technologies Gateway, CIC Start Online, transport research and the alternative fuel systems currently being developed.

Speakers:

09:30 Breakfast and Registration		
10:00	Welcome	Prof Sean Smith, Edinburgh Napier University
10:10	Climate Change, Urban Heat Islands and the Need for Sustainable Buildings	Prof Geoff Levermore, The University of Manchester
10:30	Electric propulsion as a means of reducing the Scottish carbon impact	Prof Tariq Muneer, Edinburgh Napier University
10:50	Fuel cell systems for building and transport	Dr Neil Shearer, Edinburgh Napier University
11:10	The low carbon story so far ...	Ross Milligan, Jewel and Esk College
11:20	Delivering community benefit from solar PV	Grahame McLennan, SOLAS Scotland
11:30 Coffee Break		
11:50	The scaling of renewable generation technologies	Dr Alasdair Macleod, University of Highlands and Islands
12:05	Flexible Solar cells	Prof John Wilson, Heriot Watt University
12:20	Challenges of introducing wood pellet heating to the domestic marketplace	Hugh Wallace, Glendevon Energy
12:30	Control of noise from air source heat pumps	Richard Mackenzie, Edinburgh Napier University
12:40 Q&A		
12:45 Buffet Lunch, exhibition & networking		
13:45	Optimisation of renewable energy technologies selection	Dr Aymeric Girard, Crichton Carbon Centre
14:05	Integrated collector storage solar hot water systems	Peter Birley, Edinburgh Napier University
14:25	Powerwall: a flexible modular solution for global applications	Joe Pacitti, Powerwall
14:35	Sustainable Design	David Bowdley, Miller Construction
14:45	Building integrated PV - The future, available now	John Forster, Forster Group
14:55	PV Installations - A Client's Perspective	Tony Holsgrove, Dunedin Canmore Group
15:05 Q&A, followed by Exhibition & networking		
16:00 Close		

The delegate pricing is as follows:

CIC Start Online Member, one delegate = **£125**
CIC Start Online Members, group of two or more delegates = **£99 per delegate**
Non-member, per delegate = **£150**

To register, please complete our online booking form at www.cicstart.org

You can exhibit at this conference for only £100 in addition to the delegate fee. [Please visit our website for more information.](#)

WEBINAR

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"Implications of Installation of Solar PV on Properties of Fairfield Housing Co-operative"

Date: 13th April 2012
Time: 12:30 - 14:00 (BST / GMT+1)
Venue: K501, Buchanan House, Glasgow Caledonian University, Glasgow, G4 0HG.

Summary:

In October 2011 FHC applied for the approval of a feasibility study to CIC-Start Online to explore the potential of a 10 kW-peak PV facility for one of their Fairfieldbased properties. As a result two Scottish higher education institutions were engaged to complete the above task, i.e. Glasgow School of Art and Edinburgh Napier University. This webinar presents the results of those findings.

It is worth mentioning that FHC have obtained a quote from a local PV installer, Sidey who have offered a 41-module installed facility for a total price of £26,316, including 5% VAT. The present study proposes a triple-string installation with 14 modules in each string. The total number of modules thus required would be 42. It has been assumed that the Sidey price quote would remain unchanged. Following the initial shading analysis assessment of three potential properties located in close proximity to FHC office, it was found that the most ideal structure was the roof of the 'green' building as it:

- Faced 10-degree west of south
- Had a roof slope with the optimally desired value of 45-degree
- Had only one central chimney of a short height

It is also recommended that three, 4kW inverters are used, one for each string. This will ensure a better handling of the resource and, also any shading issues if they arise.

This webinar presents the details and results of the study, and how the above conclusion was decided - from the different perspectives involved.

Speakers:

Anila Ahmad, Fairfield Housing Co-operative
Dr Masa Noguchi, The Glasgow School of Art
Prof Tariq Muneer, Edinburgh Napier University

Booking:

To book your place at this event, please click "attend in person" or "attend online" above

WEBINAR

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"Benefits and Options for the Retrofit of an 18th Century Traditional Scottish House Using the PassivHaus Standard"

Date: 19th April 2012
Time: 12:30 - 14:00 (BST / GMT+1)
Venue: K501, Buchanan House, Glasgow Caledonian University, Glasgow, G4 0HG.

Summary:

This webinar will explore the application of the Passive House standard which has been implemented in many new build properties in central Europe, particularly Germany and Austria and which has also explored the possibility of applying this standard to the retrofit and upgrading of buildings.

The feasibility study explored retrofit possibilities using the standard and how best it would integrate into a hard to treat property selected as the case study. The dwelling is located in the village of Cellardyke in Fife, Scotland. It's a traditional typical coastal village home which has had some renovations and attachments to it that haven't been all to its favour without addressing any ecological and energy efficiency alternatives.

Retrofitting using the Passive House Standard has been applied to some dwellings in mainland Europe in recent years but more recently to some Victorian terraced homes in England. These were explored and cited throughout the study giving an insight into why being done recently and how well it fits the case study in question.

The report will look into the guidelines and limitations that the passive house standard has to offer to the retrofit of buildings while also looking at conclusions over whether this standard is effective and replicable for the retrofit of Scottish traditional housing.

Speakers:

Julio Bros-Williamson, Edinburgh Napier University
John Stephen, SA Estates

Booking:

To book your place at this event, please click "attend in person" or "attend online" above

PARTNER ACTIVITIES

- The 22nd IAPS International Conference "Human Experience in the Natural and Built Environment: Implications for Research Policy and Practice", will take place at the University of Strathclyde in Glasgow from the 24th to the 29th June 2012 (www.iaps2012.org.uk). The conference programme in PDF format is available [here](#).

INVEST IN INNOVATIVE REFURBISHMENT - A TSB COMPETITION

This £10m programme, funded by the Department for Energy and Climate Change (DECC), will introduce new energy efficient technologies and processes to the refurbishment of non-domestic buildings, with the aim of reducing the Carbon Dioxide (CO2) emissions of the existing building stock. [More info is available here.](#)

WEBINAR SPONSORSHIP

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Throughout 2012, we will be delivering webinars and marketing them to professional audiences in international networks and groups. All webinars are saved as video recordings and accessible FREE to everyone on our mailing list which is expanding daily. Sponsor's information, logos and links will remain within each video recording. Please see the [list of Forthcoming Webinars](#) planned to date to select the one you would like to sponsor

The event adverts are published on our website, e-news and in many professional networking groups.

As our events provide excellent opportunities for marketing, we would like to invite sponsorship. Sponsorship fee of £350 per event will provide the following marketing:

- Company logo and a link to website in the event advert.
- Company sponsorship acknowledged at the introduction of the seminar.
- Company logo included on the webinar screen and the video recording.
- Company logo and a link to website in the event summary that will be published in Innovation Review, our quarterly online magazine available at our website www.cicstart.org.

If the above proposal is of interest to you, please contact Craig.Bishop@gcu.ac.uk or call 0141 273 1401

CIC Start Online is led by Glasgow Caledonian University in collaboration with Edinburgh Napier University, The Glasgow School of Art, Heriot Watt University, The Robert Gordon University, University of Edinburgh and University of Strathclyde Glasgow. CIC Start Online is funded by the European Regional Development fund and Scottish Government's SEEKIT programme.



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