



Improving Energy and Carbon Performance of Housing

SEMINAR AND INTERACTIVE WEBINAR

Date: 23rd November 2010

Time: 12:30 - 14:00 (GMT) - Lunch from 12:00

Venue: Seminar Room K505, Buchanan House, Glasgow Caledonian University, 58 Port Dundas Road, Glasgow. G4 0HG



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Summary:

The Energy Systems Research Unit (ESRU) at the University of Strathclyde Glasgow and Collective Architecture have defined and demonstrated a process for assessing and communicating the energy upgrade options to a residents association, landlord or housing association. The first process step is a meeting with the client to explain the project and get their inputs on the current issues with the building and the range of upgrades of most interest. Following this consultation process the current building performance is established through a physical survey, air-tightness testing, thermography and smoke analysis in representative dwellings. The appropriate upgrade options and best practice examples for the building type are then researched and a reference database created.

The carbon and energy performance of a representative sample of the existing dwellings is then modelled; and the carbon, cost and energy impact of a range of upgrade options quantified. Based on best practice and modelling results some recommendations are provided. A customised version of the modelling tools is made available to the residents association and training offered to allow them to assess further upgrade options on an ongoing basis. The customised tools are similarly available as the starting point for future similar projects. A report of the outcomes of the work is prepared and presented to the clients allowing them to gain understanding.

In this case the process was applied to the quadrangle of traditional red sandstone tenement flats in the west end of Glasgow represented by Garrioch Residents Association. There are many similar properties in Scotland requiring similar upgrades therefore work undertaken in this study can be utilised elsewhere. However, the process is not restricted to these similar properties; it can also be applied to other dwelling types.

Online Webinar:

There are two ways to attend this event. All CIC Start Online members will be invited to attend the online webinar and will receive an email with the meeting link. This will provide a live video feed, presentation and chat area - with the opportunity to contribute to the discussion using either the chat facility or your CIC Start Online headset. **Online attendance is free of charge** to CIC Start Online members. Please register as a member at www.cicstart.org – project membership is free.

Seminar Booking:

You can also attend the seminar in person by registering at www.cicstart.org. A buffet lunch will be provided before the event, providing opportunities for networking with fellow delegates and the seminar speakers. Lunch and registration starts at 12:00, with the seminar commencing at 12:30.

If you wish to attend the seminar in person, please complete the registration form [here](#).

The price is £70 per delegate (£50 for CIC Start Online members)

INTERDISCIPLINARY DEVELOPMENT OF INNOVATIONS

Following the 18 awards given for feasibility studies and academic consultancy during the first year of the CIC Start Online competition, the next submission deadline for applications is 14th January 2011.

Interdisciplinary collaboration between academics and practitioners (e.g. architects, services engineers, manufacturers of building and services products and components, and building surveyors) is especially welcome in developing innovations for sustainable building design and refurbishment.

Innovations that tackle some of the following themes are encouraged in light of Scottish climatic, social, economic and policy conditions:

- Cost-effective solutions for adaptation to future climatic conditions
- Reliability, cost effectiveness and comparison of domestic and/or non-domestic microgeneration of energy
- Cost-effective solutions for reducing fuel poverty
- Feasibility of district heating systems in tenemental areas
- Conditions that optimise technical and financial effectiveness of low carbon technologies
- Feed-in tariffs vs. cost effectiveness and take-up of microgeneration
- The impact of humidity on air source heat pumps
- Reducing noise from an air source heat pump
- Insulating cavities against driving rain
- How to insulate a hard to fill cavity or other potential solutions
- Effectiveness of curtains and carpets vs. shutters and floor insulation
- A cost-effective investment strategy for a national, regional or local Registered Social Landlord to develop district heating systems
- A cost-effective investment strategy for reducing emissions from a specified public building (e.g. school or hospital)
- The social and economic costs and benefits of an investment strategy for a large Registered Social Landlord to provide tenants with free electricity, space and water heating (i.e. cost included in rents) up to a specified maximum usage
- An economic analysis of the impact of existing, potential or innovative energy efficiency programmes on employment

The above list of research themes has been derived from a wider list recently sent by Scottish Government to academics at Scottish universities.

Guidance for applying and application forms for feasibility studies and academic consultancy are available at www.cicstart.org. For any additional information, please contact Dr Branka Dimitrijevic at 0141 273 1408 or branka@cicstart.org

INNOVATION FOR COMPETITIVE ENTERPRISES (ICE)

Innovation for Competitive Enterprises (ICE) is currently looking for companies that would like to improve their bottom line through the commercialisation of new ideas, improved products or processes, or the introduction of a new business model.

This one year programme incorporates an Innovation Learning Programme, and offers small to medium sized companies, expert, in-depth, hands-on, in-house support to develop their potential for innovation, and thus increase their competitiveness and profitability (at no financial cost to participating companies). Companies must normally have a base in Ayrshire or Dumfries and Galloway (although some based in adjacent areas e.g. Inverclyde may be eligible) and have between 10 and 250 full time equivalent employees.

Funded by the European Union's INTERREG IVA programme, it is a tri-regional project (West of Scotland, Northern Ireland and the Six Border Counties of Ireland) led in the West of Scotland by Glasgow Caledonian University supported by Scottish Enterprise. Some places may still be available for this year's programme which will commence in late 2010, or for the next intake which will take place in early summer 2011.

Interested companies should contact the ICE Programme Manager, Janet Hamilton at Janet.Hamilton@gcal.ac.uk or 07702 729490

INTRODUCTION TO THE CHANGING FACE OF ENERGY PERFORMANCE

CPD course, Glasgow Caledonian University, 3rd November 2010, 4:00-6:00 pm, £60+VAT

The latest revisions to the energy performance requirements in the UK Building Regulations are due to come into force in October 2010. The complexity and technical content within these regulations can be challenging in both the level of detail and their successful implementation. This CPD course has been designed to benefit building professionals and clients.

Aims & Objectives

- Identify the key changes to the regulations and interpret this for construction practice.
- Examine the implications these may have for the way buildings are designed.
- Discuss the longer term political goals and what future regulations changes may bring (2013 next).

Booking: Audrey.Meikle@gcu.ac.uk

BUILD WITH CARE FILMS ON SUSTAINABLE RENOVATION OF BUILT HERITAGE

Build with CaRe (Carbon Reduction) is a European project which focuses on mainstreaming sustainable buildings and construction, in which the Robert Gordon University and Aberdeen City Council are partners. As part of the project the partners in Southend on Sea Borough Council, Essex will produce a series of films charting the progress on the sustainable renovation of Prittlewell Chapel (a dilapidated, locally listed building) on North Road, Southend. The first of the series of films is available to watch, via You Tube: <http://www.youtube.com/watch?v=zZJa2eB4IRk>

This first film introduces the project and the following three films will then focus more specifically on the technologies being used and the BWC partnership itself. Please note that they will also be producing a more technical film, aimed at professionals, later in the year. The four short films are intended to increase awareness of energy saving and carbon reduction in the built environment amongst local residents and others, as well as drawing attention to the work and objectives of the Build with CaRe partnership. By allowing viewers to see first-hand what is happening on site, the film series will introduce the renewable and energy saving technologies being employed at Prittlewell Chapel, explaining how they work and their benefits.



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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 .



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