

## Project Highlight: Renewable Energy Feasibility Study



### PROJECT NAME

Glasgow Caledonian University and  
Carbon Trust Scotland – Renewable  
Energy Feasibility Study

### CLIENT

Glasgow Caledonian University and  
Carbon Trust Scotland

### PROJECT TYPE

Renewable Energy Feasibility study

### LOCATION

Glasgow

### MAIN EXECUTING OFFICE

Edinburgh

### START DATE

Nov 2010

### END DATE

June 2011

### REFEREE

Douglas Little  
Head of Estates and Buildings  
Glasgow Caledonian University



### Project description

In line with their Sustainable Campus Master Plan, Glasgow Caledonian University wanted to understand the options and associated costs and benefits of different renewable energy technologies that would be suitable for their main campus. The options also included low carbon technology, such as CHP, and the development of a district heating system.

SKM Enviro was commissioned to carry out a feasibility study on renewable energy options. The study involved collating and analysing energy consumption data, developing building specific energy profiles and assessing the viability of various renewable technologies (both building specific and site wide) for cost and carbon savings. The preferred option (gas fired CHP and district heating) was developed with further detailed sizing and costings undertaken for the heat network and the CHP unit. A full business case was developed addressing strategic context, business needs, benefits, economic (quantitative appraisal), procurement, risks and project plan. The business case was presented and gained approval from the University Court. SKM Enviro have now been retained as a specialist advisor to work alongside various framework contractors in the design, procurement, construction and commissioning of the scheme.

### Client Benefits of this Approach

- **Financial and delivery models** – The analysis highlighted the various financial and delivery models which could be used by the University to deliver a CHP/DH scheme, highlighting the risks and rewards associated with each.
- **Policy Framework** – The approach identified the changing policy framework and provided insight into the possible impacts of RHI and FIT incentives.

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