9 October 2014

Dear Rob

Thank you for the opportunity to give evidence to the RACCE Committee on the draft Pollution Prevention and Control (Scotland) Amendment Regulations 2014 on 1 October.

As part of the session, the Committee expressed an interest in learning of any public sector pilot schemes to seek and use waste heat from nearby businesses. I offered to provide the Committee with current examples of heat network projects within the public sector in Scotland to aid the Committee with future deliberations on energy efficiency measures.

As you are aware, we have set up the Heat Network Partnership to provide co-ordinated support for district heating across our agencies and programmes. The Heat Network Partnership website (www.districtheatingscotland.com) has a directory of existing heat networks and projects in development, from small-scale heat-only district heating schemes to larger-scale integrated projects.

A number of the larger existing networks use Combined Heat & Power (CHP), mainly on gas in urban areas, to supply heat to the networks for example:

**Existing District Heating Networks**

- Aberdeen Heat & Power, Seaton, Hazelhead and Stockethill heat networks – gas-fired CHP
- Cube Housing Association, Wyndford Estate – gas-fired CHP
- Glasgow City Council, Commonwealth Games Athletes Village – gas-fired CHP
- University of Edinburgh, King’s Buildings, George Square, Pollock Halls and the Pleasance heat networks – gas-fired CHP
- University of Dundee – gas-fired CHP
Most of these district heating networks would not yet be of sufficient scale to be covered by the PPC Amendment Regulations 2014 but as they continue to develop, there is an increasing interest in making use of heat from industrial facilities. The Heat Network Partnership has been working to support projects across Scotland and has supported a number of studies on the use of heat from industrial facilities, including:

Projects in Development

- Owens Illinois, Alloa – Resource Efficient Scotland have funded a study on the use of high grade heat from industrial process. Work is underway with Clackmannanshire Council to identify and engage with potential heat users.
- Ignis Wick – connection of Caithness General Hospital to existing district heating network is under negotiation. A study funded by Resource Efficient Scotland on heat recovery from Pulteneytown Distillery has been carried out.
- Dundee Energy Recycling Ltd / Michelin – Resource Efficient Scotland have funded a study on the use of heat from the waste facility, demonstrating a short payback timescale.
- Dunfermline District Heating Network – the Heat Network Partnership have supported development of the connection of Queen Margaret Hospital to Fife Council’s heat network, with heat supplied by a new anaerobic digestion plant.
- Glasgow City & North District Heating – a report funded by Glasgow City Council, Scottish Enterprise, Scottish Government and Luddon Construction on a district heating scheme connected the Glasgow City Council buildings, Glasgow Royal Infirmary, University of Strathclyde, Craighall Business Park, Tennents Caledonian Brewery, and a number of social housing developments. University of Strathclyde heat network is under construction and are in discussions with the Wheatley Group on connection to adjacent housing development.

The Scotland heat map, published by the Scottish Government in May 2014 (www.scotland.gov.uk/heatmap) will be a key tool to support identification and development of future opportunities for heat recovery. The heat map includes potential heat supply such as operational and proposed CHP plants and cooling towers which may provide an opportunity for heat recovery. Using the Scotland heat map, the Scottish Government has commissioned a study to look at the public sector estate, to identify the potential for connection to or development of heat networks.

I hope the Committee finds this information helpful.

I am copying this letter to the Minister for Energy, Enterprise and Tourism, and the Convener of the Economy, Energy and Tourism Committee, given their designated leads in energy matters.

Kindest regards

PAUL WHEELHOUSE