

Highland Heat Map – Training Seminar
24th March 2011

Overview of the day

- 11:00 Introduction
- 11:15 What is the Highland Heat Map
- 11:45 Heat Map Methodology
- 12:15 Lunch
- 13:00 Applications of the Heat Map
- 13:45 Discussion Forum
- 14:15 Summary
- 14:30 Close

Heat Mapping – An Introduction

A “Heat Map” is a tool which brings together information on **demand** for heat and potential sources of **supply** for Renewable heat.

- Demand – domestic, commercial and industrial heating
- Supply issues – “waste” industrial heat, biomass fuel sources, expertise etc.

National Context

- Climate Change (Scotland) Act 2009
- Scotland's Climate Change Delivery Plan / Renewable Heat Action Plan (2009)
 - 42% reduction in carbon emissions from heating buildings 2006-2020
 - SG target of at least 11% of all heat demand to be met from renewable sources by 2020
- Scottish Zero Waste Plan
 - 70% recycling / compost by 2025
 - 5% Landfill (max)
 - 25% EFW
 - Anaerobic Digestion
 - Reduction in landfill
 - Scope for Energy from waste
- Renewable Heat Incentive (DECC)
- Oil ~ \$115 per barrel
- Heating oil ~ 60p per litre



CLIMATE CHANGE DELIVERY PLAN



MEETING SCOTLAND'S STATUTORY CLIMATE CHANGE TARGETS
June 2009



Renewable Heat Incentive

- Government proposals published on 10th March
- Phased introduction from July 2011
- Changes from consultation document – biomass the winner. Up to 7.6p/kWh
- 12% annual return target (with respect to reference installation)
- But, no special treatment for District Heating.



AECOM



Local Context

- Development Plan
- Influence policy about how development can occur sustainably
- Influence current and future proposals
- Inform investment decisions, projects and initiatives

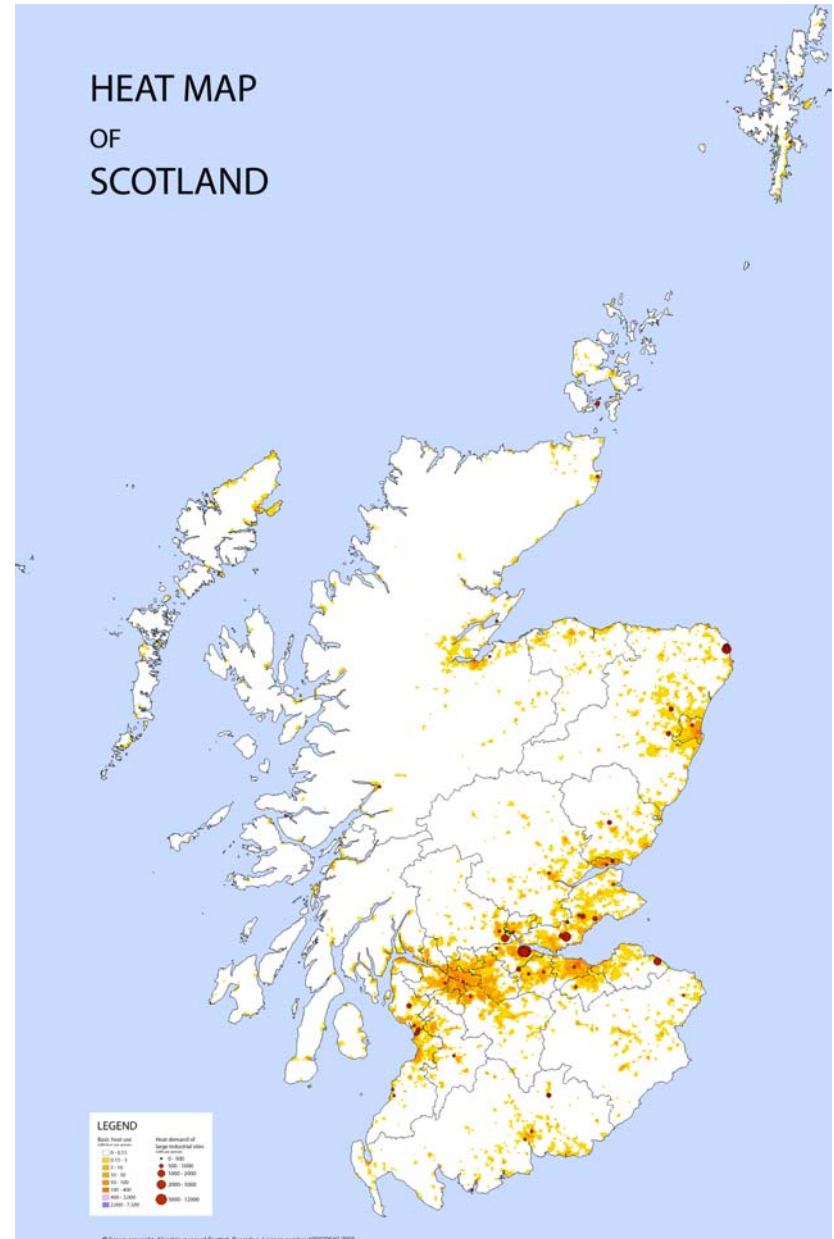


Highland Heat Map

This is a **pilot** project funded by Scottish Government arising out of a previous Heat Mapping carried out in 2007.

A steering group of Scottish Government, Highlands and Islands Enterprise and The Highland Council have been responsible for leading and directing the work.

Project originally commissioned – December 2009



Highland Heat Map

Aims and Objectives

Aim

to investigate & determine the potential structure, content & uses of a heat map and produce one for the Highland Council area using a methodology that is repeatable for all other Scottish local authorities

Objectives

1. Produce a multi-layered, GIS based map which directs and supports opportunities to maximise the generation and use of renewable heat in new developments
2. Deliver a GIS based system suitable for use and update by The Highland Council staff
3. Produce and deliver a training package for Highland Council staff on how to update and/ or revise the input layers

Highland Heat Map Outputs

These will include:

- A Heat Map which will bring together information on **demand** for heat, potential sources of **supply** for renewable heat and the **skills** required to implement the technology
- GIS tools to assist interrogation, analysis and update of the heat map
- User manual
- Training course