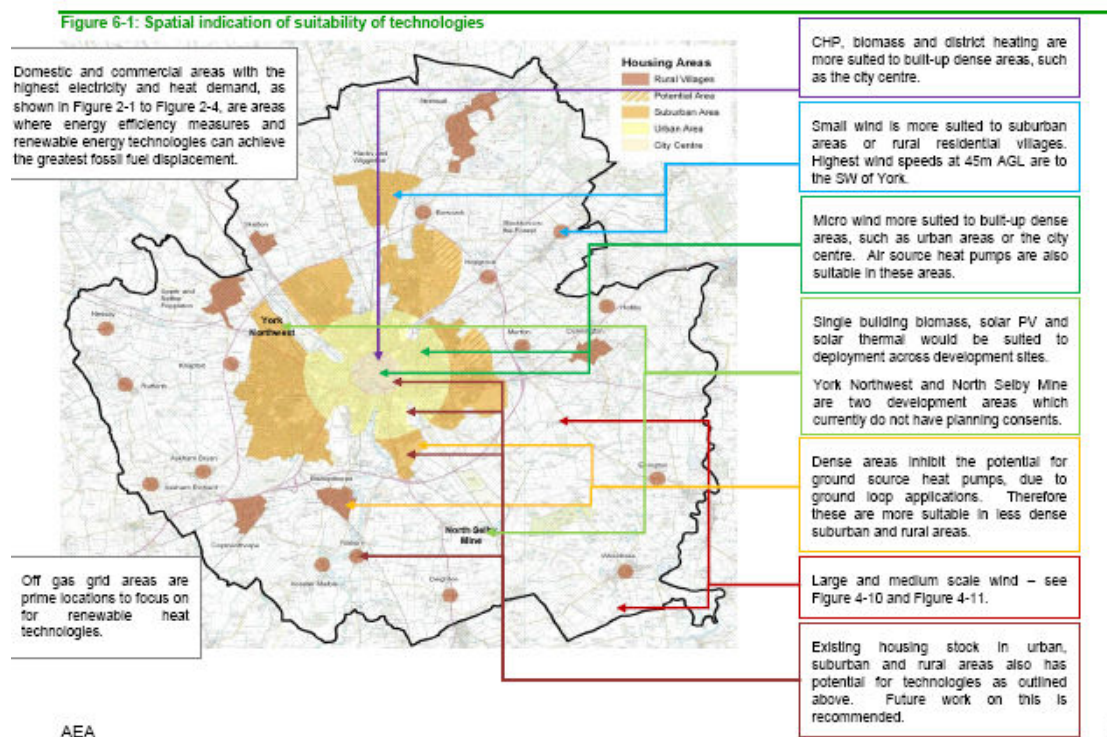


Annex 4: Major Citywide Sustainability Projects Update (2011)

City – wide work

Renewal Energy Viability Study

CYC have completed a study looking into the feasibility of renewable energy across the city. This work will be used to develop renewable energy policies in the LDF and to create more projects across the city. Table 1 is a map illustrating the graphical locations of potential technologies across York .



A summary of the potential capacity for generating renewable energy is detailed below:

- 2020 – 67.5 MW from RE electricity
- 2020 – 22.3 MW from RE heat
- 2030 – 69.7 MW from RE electricity
- 2030 – 28.0 MW from RE heat

- Total by 2020 =89.9 MW**
- Total by 2030 =91.7 MW**

A summary of the potential types of renewable energy and their capacity is also detailed below:

- Wind – Large and Medium Scale (78,840 MWh/yr)
- CHP Biomass district heating (17MWh/yr)

- Biomass (single building) (7623MWh/yr)
- Ground source/air source heat pumps (6534 MWh/yr)
- Solar PV (domestic) (1564 MWh/yr)

This work has been utilised in the Core Strategy to set renewable energy targets for the city, set high standards for sustainable design, construction and renewable energy on any new development in York, and to outline suitable technologies for the forthcoming large scale development sites across York.

****Please note this is just potential capacity and any measures above require further feasibility and funding before possible installation. They would also be subject to all current planning considerations.***

This work is also feeding into the Climate Change Framework and Action Plan and will be utilised to progress city wide solutions/standalone solutions

Climate Change framework and Action Plan

Proposed amendments were approved by the Executive on 19/10/2010. Final amendments have been made to take into consideration the results of the carbon modelling work (see below). A finalised version will be available from CYC climate change pages of the website by April 2011.

Carbon Modelling Study

This work has been completed. The scenarios developed have informed the Climate Change Framework and Action Plan. Full copies of the report are available from the Sustainability Officer.

Sustainable Community Strategy – Sustainable City Chapter

This chapter has been refreshed by the Environment Partnership Board and will continue to address a broad range of issues facing the city such as climate change, sustainable transport, the protection of historic and built environment and the enhancement of the natural environment. The draft is now being considered by WoW Board.

York Green Neighbourhood Challenge

The *York Green Neighbourhood Challenge* ran from May 2009 to September 2010. It was initiated by York's Environment Partnership (including the City of York Council, Sustainability4Yorkshire, Natural England, Civic Trust, English Heritage and York Environment Forum) and funded by York's Local Strategic Partnership. The Challenge aimed to achieve a 10 per cent reduction in household carbon emissions, raise public awareness of low carbon lifestyles and foster community cohesion.

The initiative set out to assist the City of York in reducing residential carbon emissions. It piloted an effective approach to community engagement by recruiting teams from selected neighbourhoods, providing information, support

and encouragement to reduce carbon emissions, and creating opportunities to meet.

The Green Neighbourhood Challenge was very effective in reducing the carbon footprint of the participants and achieved an estimated total emission reduction of **98 tonnes of CO₂e/year**. A full report will be available from By April 2011. In order to carry this successful project on, a new community will undergo the challenge in 2011 (see below).

Various Recent Funding Updates

RIEP – Regional Improvement and Efficiency Partnership

Climate for Change CVS programme - A series of workshops for the CVS were held in York and North Yorkshire on low carbon practices and operations (total £12,000).

Aims:

- explore how climate change and energy issues can impact on organisations in the short and medium term
- offer practical advice on how to reduce costs, to ensure that the organisation continues its purpose and meets its goals
- show how reducing waste can save money, strengthen community links, improve self esteem and the health and wellbeing of staff and service users.
- On-line Toolkit for organisations to use.

Climate Change Risk Assessments for York and North Yorkshire

A sub-regional programme including two part-time project officers worked for a total of 6 months to (1) undertake a comprehensive risk assessment for climate change adaptation work in partnership across Councils in York & North Yorkshire and (2) disseminate the results of this work both within the Y&NY Authorities and their partners, to create an individual council adaptation action plan to continue the adaptation work post March 2011 in York and North Yorkshire Authorities and partners. (total £15,000) . A report for York is being finalised and will be used to update CYC risk registers.

The Environmental Business Support Programme

A regional programme designed to help local businesses tackle climate change and save money through resource efficiency tools, on-line portal/website and up - skilled local authority officers. Tools include:

- Support Website
- Resource efficiency fund
- Events and training (including LA officers training)
- Diagnostic tools for businesses

A local York launch of this programme was held as part of Climate Week at the Business Forum's Innovation event.

Climate Change Skills Fund

In the Yorkshire and Humber Region we have been given £860,000 by CLG to deliver climate change programmes by June 2011. The main thrust of the programme is around supporting the role that Planning can play in delivering climate change mitigation and adaptation work. An initial set of project areas have been drawn up. The key areas of work are:

- **Leadership and Skills** - covering elected members and planning officers and related professions (accredited training).
- **Planning Policy** - work area to focus on policy development, e.g. further streamlining of permitted development rights, supporting LAs to deliver their planning policy targets (e.g. % of renewables in new developments), improve transparency of decision making and reducing appeals.
- **Best Practice Hub** - focus on built environment best practice mitigation / adaptation work and learning.
- **Citizen Engagement** - working with Energy Savings Trust to support householders in realising the benefits of renewables, how to get them installed, and being well adapted to a changing climate.
- **Historical Assets** - Improving planning policy to improve energy efficiency and renewable energy generation in historical / listed buildings and conservation areas.

To date, CYC is leading on the Citizen Engagement fund for York and North Yorkshire, and in partnership with the SEI and Sustainability4Yorkshire, were successful in securing £70,000 to achieve the following in:

- Based on a successful pilot in York, and utilising the expertise of Sustainability4Yorkshire, a North Yorkshire Green Neighbourhood challenge will work with 7 community groups across the region(including a community in York). The challenge will involve 7 teams in North Yorkshire competing to reduce their carbon footprint for financial rewards that can then be used by the group to carry on further work in this area or to look at wider community improvement projects. The project aims to achieve a measurable reduction in household carbon emissions, raise public awareness of low carbon lifestyles and foster community cohesion.
- A york group is currently being recruited.

Leeds City Region – Low Carbon Framework

This programme is a £3m (over 10 pilot areas) programme and includes five key projects :

- **Low Carbon Economic Analysis** – Mini-stern report looking at the costs and economic opportunities of policy responses to climate change.

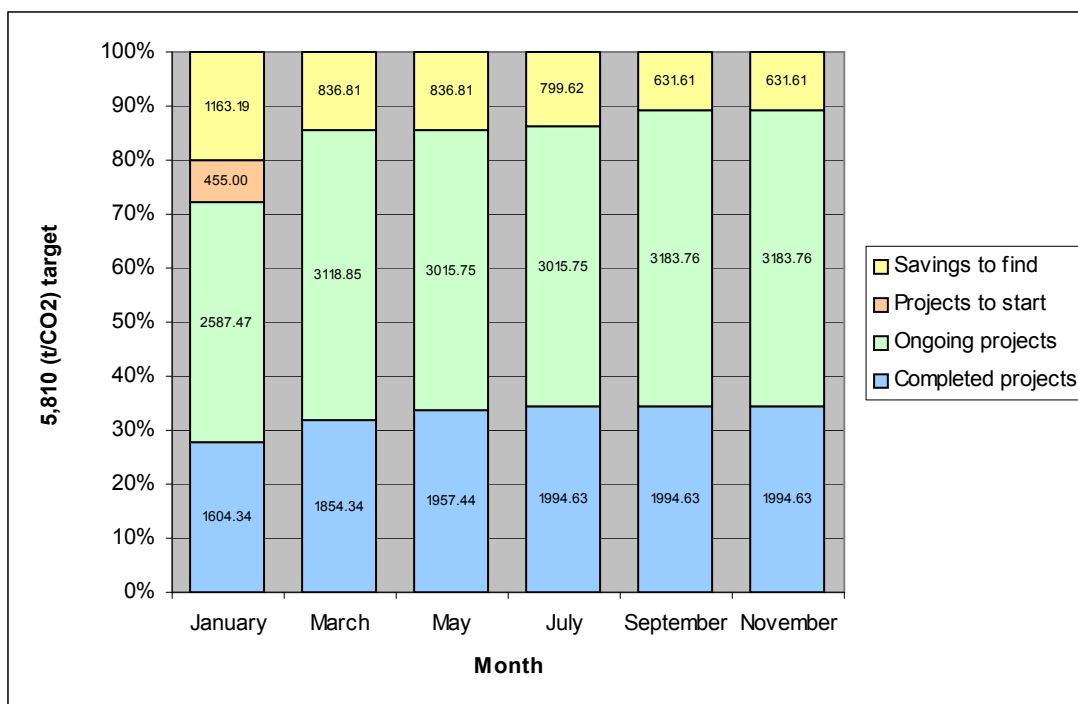
- **Low Carbon Innovation** – Linking with the LCR's Innovation Programme – open innovation events leading to the development of an innovation competition for low carbon technologies.
- **Domestic Energy & Efficiency Programme (DEEP)** – Includes the delivery of a DEEP pilot area and cost benefit analysis.
- **Commercial Property** – A feasibility study looking at a potential revolving loan fund to incentivise energy efficiency retrofit on commercial properties.
- **Renewable Energy Strategies** – Piloting local renewable energy strategies in two of the Urban Eco Settlement locations, including the production of local investment prospectuses that to facilitate discussions with communities and business.

CYC is piloting some of this work via the Domestic Energy & Efficiency Programme (DEEP) and Renewable Energy Strategies strands of this programme. At the British Sugar Urban Eco Settlement site detailed feasibility of CHP/districting heating schemes and integrated renewable energy technologies will be undertaken. This work will also produce a local investment prospectus that will facilitate discussions with communities and business.

CYC

Carbon Management Programme

This programme continues to progress. To date 1994.63 tonnes (November 2010) have been made (based on a 2006/07 baseline). A further 3183.76 will be made through ongoing projects once completed and installed and 631.61 tonnes of projects are still to be found and implemented (based on a 2006/07 baseline). Work is currently underway to look at new projects to meet this target. It is likely that planned transport fleet improvements will be made through the More for York Transport Blue Print to assist reaching this target by 2013.



A review is also underway looking at the 2006/07 baseline to ensure data accuracy and to refresh the strategic implementation plan of this CMP. This expected to completed by April 2011.

10:10

The council signed up to 10:10 campaign in 2010 and are on track to save 10 per cent of the estate's (excluding schools) carbon emissions in 2010 (based on a 2008/09 baseline). 1200 tonnes of carbon dioxide is anticipated to be made (31st March 2010 – 1st April 2011) and will be delivered through:

- renewable energy to power bollards/signs;
- technology to help control energy usage;
- increasing staff awareness of carbon saving practices;
- heating a swimming pool with biomass fuel instead of gas; and,
- replacing ageing streetlighting units with more efficient examples.

Climate Week

Climate Week took place between 21 and 27 March 2011. The Week aimed to highlight all the great action taking place across the country to address climate change. Thousands of businesses, charities, Council's and schools ran events throughout the week demonstrating what can be achieved, to share ideas and above all else encourage others to act. This year Climate Week also coincides with WWF Earth Hour on Saturday 26 March. Earth Hour is a global campaign to raise awareness of climate change by asking businesses, individuals and organisations to switch lighting off between 8:30pm and 9:30pm.

As part of Climate Week York created a programme of local activities with partners from across the city:

- Launch of the Environmental Business Support Presentation and Workshop @ Business Forum: launch of a set of resources for businesses to enable them to take advantage of the opportunities resource efficiency can provide. To be held at the Sir Ron Cooke Hub of the University of York on 23 March 2011.
- CYC Admin Accommodation Electricity Challenge: a number of CYC admin buildings were challenged to reduce their electricity usage below previous day levels. Results pending.
- CYC School Energy Challenge: all CYC schools were challenged to reduce their energy consumption during climate week. A prize of £100 is to be offered to winning Primary and Secondary Schools.
- WWF Earth Hour: takes place on Saturday 26 March from 8:30pm to 9:30pm and encourages businesses, individuals and organisations to turn lighting off for the hour as a way of raising awareness of climate change. CYC worked in partnership with York Minster and Aviva to make the event a success.
- York Climate Week Event @ St. Sampson Square: a number of environmental groups from York attend this event to provide information on the activities they are involved in in York to address climate change. The event also provided friendly and practical advice on living a low carbon lifestyle. A performance of Compost - the mini-musical was also performed by Fishergate School.
- Press: a number of articles were produced internally and externally to highlight the work which is going on across the City to address climate change.
- A wider programme of activities were also organised by Edible York, Planet South Bank, Environment Forum, Friends of Earth, St Nicholas Fields, Sustainability4Yorkshire. Activities included lectures and public planting events.