

**Open Report on behalf of Richard Wills,  
Executive Director for Environment and Economy**

Report to:	<b>Environment and Economy Scrutiny Committee</b>
Date:	<b>28 November 2017</b>
Subject:	<b>The Third Carbon Management Plan</b>

**Summary:**

In 2013, Lincolnshire County Council adopted its second Carbon Management Plan, covering the period 2013-18. The Plan agreed to reduce carbon emissions by 22% (18,261 tonnes) during the period with an ambition to reduce energy costs by £2million per year.

Current reporting suggests that we are on target to meet this. The 2016/7 figures demonstrates a 17.5% reduction from the 2011/12 baseline.

As Lincolnshire County Council's Second Carbon Management Plan nears completion, the report will provide the committee with an overview of progress thus far as well as describing the plans for the development of the Third Carbon Management Plan.

**Actions Required:**

Members of the Environment and Economy Scrutiny Committee are invited to:

- 1) Consider the progress made during the Second Carbon Management Plan.
- 2) Highlight any recommendations or further considerations to be taken forward in steering the development and implementation of the Third Carbon Management Plan.

## **1. Background**

All councils within England have a duty to work towards reducing carbon emissions in line with the statutory requirements of the Climate Change Act 2008 to reduce UK emissions by 34% by 2020 and by 80% by 2050.

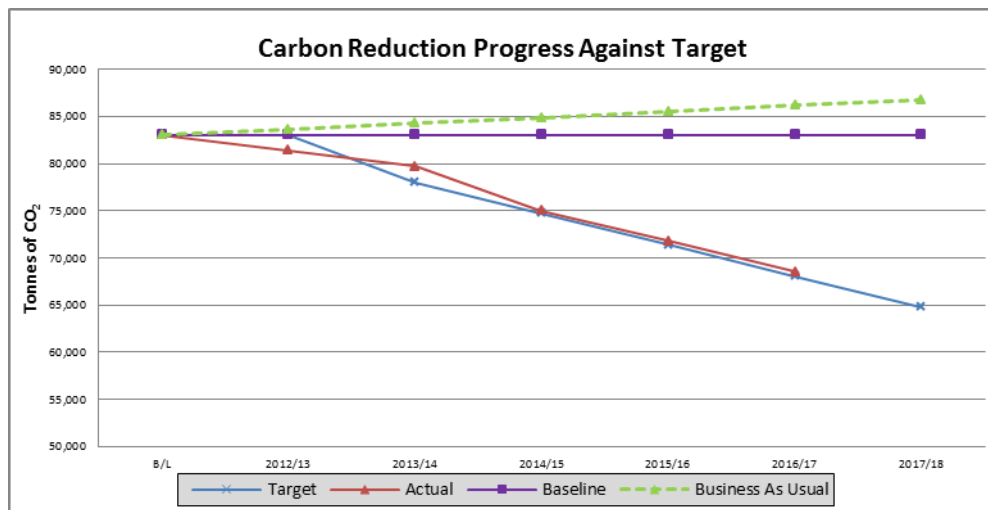
In April 2013 Lincolnshire County Council adopted its second Carbon Management Plan with a target to reduce emissions by 22% from its 2011/12 baseline of 83,006 tonnes of CO<sub>2</sub>. This equates to savings of 18,261 tonnes of CO<sub>2</sub> and £2 million annually.

Reporting for 2016/17 demonstrates an overall reduction of 17.5% from the 2011/12 baseline which equates to 14,504 tonnes of CO<sub>2</sub>. This is the fourth year of the five year programme and at present we are on target to meet the targeted 22% reduction by March 2018.

Of the 17 projects identified at the outset of Carbon Management Plan, 13 have been completed and 4 are still to commence. Overall these projects identified savings that would deliver 75% of the required CO<sub>2</sub> reduction which would be needed to meet the Carbon Management Plan 2 target.

Two further projects were identified: the street lighting transformation and replacing all the storage heaters in electrically heated schools with Far infrared ceiling heaters. The savings realised by both these projects are likely to mean that we will successfully achieve the overall 22% reduction target.

The graph below shows where we are at present towards meeting our 22% reduction target.



**Schools Collaboration on Resource Efficiency (SCoRE)** has been far the biggest contributor to projected carbon savings. The project was successfully completed and 260 of Lincolnshire's 360 schools have completed the programme.

The programme for technology investment (in Boiler Optimisation and boiler room insulation) has now been completed with £1,978,552 worth of equipment installed in 343 schools. Data analysis from 151 schools heated by gas has shown that the average savings were 9.1%. The analysis used automated meter readings and was weather corrected so that 'like for like' comparison of a years' worth of data before and after the units were installed could be compared.

The final element of SCoRE was the 'invest to save' phase. Every school action plan contained a 'quick win' behaviour-based actions, and longer-term actions that were likely to require some level of investment to realise the benefits. To date SCoRE has led to 63 projects valued at £2,066,548 being installed.

A breakdown is shown below:

- 1 Biomass and Ground Source heat pump System valued at £650,000.
- 41 lighting upgrades to LED valued at £760,124.
- 12 Solar PV installations valued at £455,149.
- 9 ceiling mounted infrared heating panel upgrades to whole school valued at £201,275.

There have been some significant successes stories from schools that have taken joined up action and exploited investment opportunities to the full. SCoRE has achieved national recognition in the 2014 Green Apple awards and Marton Primary School won the Sustainable School in the Ashden Awards in 2015. William Farr, the Sustainability Team and Greenio jointly won the 2017 East Midland Large Scale Energy Awards for the Biomass & Ground Source system.

Unfortunately take up of the SCoRE programme has reduced since this became a paid for service.

**Street lighting transformation** is a £6.4M project which has a payback period of 3.6 years and will contribute significantly to the carbon reduction target of 22% by 2018.

The programme is now completed and is projected to save the following:

- Save £1.7M revenue funding per year.
- Reduce LCC's carbon footprint by 6,254 tonnes.
- Reduce LCC's electricity consumption by 12.5M Kwh per year.
- Reduce Light Pollution.
- Reduce ongoing maintenance needs.

**Salix** is the Council's revolving energy fund which continues to provide funds for investment in schemes and buildings in the corporate, heritage and schools sectors. To date, the Salix revolving fund has enabled £2,209,920 of investment and as a result annual energy costs have been reduced by £435,609 and annual savings of 2,179 tonnes of CO<sub>2</sub>.

Although not all identified Corporate Property projects have been implemented as planned, savings have been made in this area through a boiler replacement programme and significant energy saving projects implemented at Keily House, Crown House and Lancaster House.

The sustainability team is now beginning to develop the Third Carbon Management Plan. To ensure that data is as robust as possible the team has requested support from internal audit.

A trends report is currently being produced to look at benchmarking Lincolnshire County Council against other similar authorities, to ensure that we are performing at a high level and to observe good practice.

A workshop approach will be used to generate projects to be included within the new plan. This will allow a draft document to be presented to members in early 2018.

## 2. Conclusion

The current Carbon Management Plan has performed well. Work is now commencing to develop a third Carbon Management Plan for the authority. A draft document will be presented to members in early 2018.

Members of the Environment and Economy Scrutiny Committee are invited to consider the progress made during the Second Carbon Management Plan, and to highlight any recommendations or further considerations to be taken forward in steering the development and implementation of the Third Carbon Management Plan.

## 3. Consultation

### a) Have Risks and Impact Analysis been carried out?

N/A

### b) Risks and Impact Analysis

A Risk and Impact analysis will be produced alongside the Third Carbon Management Plan

## 4. Appendices

These are listed below and attached at the back of the report	
Appendix A	Infographic

## 5. Background Papers

Document title	Where the document can be viewed
Lincolnshire County Council's Carbon Management Plan 2013 - 18	<a href="http://www.lincolnshire.gov.uk/residents/environment-and-planning/sustainability/environmental-policies/">www.lincolnshire.gov.uk/residents/environment-and-planning/sustainability/environmental-policies/</a>

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