

# Environmental Sustainability Strategy



## and Implementation Plan



April 2009 – March 2012

## Introduction

In North Norfolk we are fortunate to enjoy a varied and high quality environment. The District is largely rural in nature with seven market towns and about 200 villages comprising the built environment. It has 45 miles of coastline, some of which is designated as the Norfolk Coast Area of Outstanding Natural Beauty, with the gateway to the Norfolk Broads, a unique area of internationally important wetlands, found in the east of the District. This high quality environment is essential to sustain our social well-being and economic prosperity.

However, social and economic activities can have a negative impact on the quality of our environment, at both a local and global scale. The challenge is therefore to provide a sustainable balance between protecting and enhancing our environment and maintaining our social and economic development.

The causes and effects of climate change have become a real issue in recent years, with human activity being recognised as a major factor in causing climate change. The likely effects of climate change could result in dramatic changes to both our local and global environment. National government is now indicating that local government should take action to mitigate the causes of climate change and adapt what we do to accommodate its likely effects.

This strategy outlines how North Norfolk District Council aims to safeguard the District's environment, which will in turn contribute to safeguarding the global environment. It assesses where we are now, the challenges that face us, sets a vision of where we aim to get to, and explains the actions we will take to get there. However, the successful implementation of these actions will also require the participation of other organisations and everyone in the community; we should work together to safeguard our environment now, and for future generations.

## National and Regional Policy Framework

National government is committed to taking action to mitigate the effects of climate change, and adapt to its likely effects, and has demonstrated this through the following commitments:

### **International:**

The UK signed the **Kyoto Protocol** in 1997, which commits the UK to achieving a reduction in emissions by 12.5% (from 1990 levels) by 2012. There is currently work underway to establish an international framework post 2012.

### **European:**

The **EU Common European Strategy for energy security and tackling climate change** has set a binding target for the UK to reduce its CO<sub>2</sub> emissions by 20% (from 1990 levels) by 2020.

### **National:**

The **Climate Change Act 2008** has set a binding target to reduce CO<sub>2</sub> emissions by 60% by 2050 (compared to 1990 levels).

The **Energy Bill 2007-2008** proposes cutting CO<sub>2</sub> emissions by 60% by 2050, with real progress by 2020; seeks to maintain the reliability of energy supplies; and to ensure that every home is adequately and affordably heated.

The **National Climate Change Programme 2006** highlights the important role of the public sector in both the management of its own estate to reduce CO<sub>2</sub> emissions and through providing leadership to others in the community.

The **Local Government White Paper 2006** proposes new national indicators related to climate change:

- 185: CO<sub>2</sub> reduction from Local Authority Operations, from an 08/09 baseline;
- 186: Per capita reduction in CO<sub>2</sub> emissions in the Local Authority area;
- 187: Tackling fuel poverty – people receiving income based benefits living in homes with a low energy efficiency rating;
- 188: Adapting to climate change; will measure progress on assessing and managing climate risks and opportunities and incorporating appropriate action into LA strategic planning.

## **Key challenges for North Norfolk**

Despite improvements in many aspects of the environment that have occurred as a result of changes in legislation and public attitudes, there are still a number of significant threats to the environment of North Norfolk:

### **Climate change**

This is likely to be the most significant long term challenge facing the District. The 'natural greenhouse effect' keeps the earth much warmer than it would otherwise be, with gases such as carbon dioxide (CO<sub>2</sub>), methane and water vapour acting like a blanket trapping heat inside the atmosphere. This natural greenhouse effect is essential in sustaining life on earth. However, global emissions of these so called greenhouse gases have grown markedly due to human activities, with an increase of 70% between 1970 and 2004 alone (including an 80% increase in emissions of CO<sub>2</sub>, the main contributor) (IPCC, 2007). This increase in the proportion of greenhouse gases such as CO<sub>2</sub> and methane prevents more radiative heat escaping from the atmosphere, which will cause changes to global climate patterns, including an overall global warming.

The challenge is to not only reduce these greenhouse gas emissions from the District that are contributing to the problem, but to adapt to the climatic changes that are likely to occur in the future. The implications for the climate of North Norfolk are set out in key theme 6 and can be summarised as:

- Hotter drier summers
- Warmer wetter winters

- More extreme weather and rainfall events
- Rising sea levels

As a low-lying area with a soft coastline and a growing population, the District is therefore particularly vulnerable. The likely consequences of the changing climate such as increased coastal erosion, increased flooding, and water shortages will have serious implications for residents in the future.

### **Development Pressures**

North Norfolk is changing; the number of households in the District is increasing and the planned future growth in the District of at least 8,000 new dwellings between 2001 and 2021 will see many of the market towns and villages experiencing significant growth. This increase in growth puts pressure on scarce resources such as land and water.

Whilst the settlements selected for development through the Council's planning policies have been done so in order to help reduce reliance on use of the private car, a lack of public transport in many areas of the District means that road transport is likely to remain the principal means of travel.

### **Resource use**

Our demand and use of natural resources is high; if the whole world were to use resources at the same rate as our residents then three planet earths would be needed to sustain the existing global population. This is clearly not sustainable and in order to address this it will require us to all make significant changes to the way we live and work.

### **The Council's role in improving the environment**

The Council will take a number of bold steps aimed at reducing its own impact on the environment whilst encouraging others to do likewise. The Council is able to play a leading role in the protection and enhancement of the environment through its various functions as;

- An estate manager (both buildings and land)
- A service provider
- As the Local Planning Authority
- A regulator and enforcement body
- A purchaser of goods and services
- A community leader and advocate
- A partner with other public and private bodies
- A lobbyist.

We have signaled our commitment to taking action to reduce our impact on the environment in 2 key ways:

- The Council's corporate plan 'Changing Gear 2008 – 2011' includes Environmental Sustainability as a key theme.
- In 2000 Councillor John Sweeney signed the Nottingham Declaration on Climate Change on behalf of North Norfolk District Council, which

signals that the Council acknowledges that climate change is occurring and commits to taking action to mitigate the causes of climate change.

### **Key partners**

Successful implementation of the actions contained in this strategy will also require the participation of other organisations and everyone in the community. Some of our key partners are likely to include;

- Energy Saving Trust
- Carbon Trust
- UEA, in particular the Community Carbon Reduction Programme (CRed)
- Norfolk Climate Change Task Force (comprising representatives from all other Local Authorities in Norfolk and the Broads Authority)
- North Norfolk Community Partnership
- Norfolk Biodiversity Partnership

### **Strategy Structure**

This Strategy first sets out an overarching Environmental Policy for North Norfolk District Council. The strategy is then broken down into six themes that have all been identified as key issues for North Norfolk. Each theme has an overall aim, followed by some more detailed objectives set out in the 'where do we want to be' section. The tables in the 'how do we get there' section form the implementation plan for the Council over the next 3 years. These tables will be reviewed annually and amended if necessary.

### **Reporting and monitoring performance**

The Environmental Sustainability Board will meet regularly to provide guidance and support to officers in the implementation of this strategy. This Board is comprised of:

| <b>Position</b>                               | <b>Current post holder (Feb 09)</b> |
|---|-------------------------------------|
| Portfolio holder Environmental Policy (Chair) | Cllr. Eric Seward                   |
| Leader of the Council                         | Cllr. Virginia Gay                  |
| Chair of Scrutiny Committee                   | Cllr. Nigel Ripley                  |
| Strategic Director – Environment              | Nick Baker                          |
| Sustainability Coordinator                    | Helen Dixon                         |

A progress report will be submitted to Scrutiny Committee twice a year, at the November and May meetings, and the Strategic Director – Environment will report on progress of the Implementation Plan through the Performance and Risk Management Board. Targets will be set and monitored annually for the two climate change National Indicators included in the Norfolk Local Area

Agreement (NI186 and NI188), and all three climate change National Indicators will be reported on annually by the Council.

## **North Norfolk District Council's Environmental Policy:**

North Norfolk District Council recognises that its operations have an impact on the environment. In working towards our corporate aim of becoming an environmentally sustainable council we are committed to minimising our adverse environmental impacts through taking action in a number of key areas. We will:

1. Embed sustainable procurement principles in all council procurement decisions.
2. Reduce the use of energy and resources, and therefore CO<sub>2</sub> emissions, from council operations and the district as a whole.
3. Reduce the council's CO<sub>2</sub> emissions generated through business mileage, and encourage initiatives to reduce car travel in the District.
4. Provide information and support to our residents in order to enable them to reduce their own environmental impact.
5. Protect and enhance the bio and geo diversity of the district.
6. Ensure we have considered and planned for the future impacts of climate change.
7. Comply with all relevant environmental legislation.

The Council will encourage and enable all its employees to do what they can to translate this policy into practice. We want to set a good example to other organisations and to our residents. The Council will integrate this care for the environment into all areas of Council activity and into all policies, strategies and decisions. The Council will achieve these commitments through implementation of the actions contained in the Corporate Environmental Sustainability Strategy.

## **Key theme 1**

### **Sustainable Consumption and Production**

**Aims: To ensure all Council procurement decisions are made against sustainable procurement criteria. To give the District's residents and businesses information to enable them to make choices regarding sustainable production and consumption.**

Purchasing decisions can have a profound effect on the environment. Manufacture and transportation of products uses valuable resources and pollutes our land, air and water. Goods consume energy and water during their manufacture and many consume further energy and water when in use. The goods themselves, their by-products and their packaging eventually have to be disposed of as waste.

The Council is a major procurer of goods and services in the District and so has the opportunity to influence supply chains and demand high standards of environmental sustainability in the goods and services it procures. This will help to stimulate the market to innovate and produce more cost effective and sustainable options for all consumers.

The Council is also well placed to set an example and provide information to residents and businesses to enable them to consider the impacts of their own purchasing choices.

'Procuring The Future, The Sustainable Procurement National Action Plan: Recommendations from the Sustainable Procurement Task Force' document provides a definition of sustainable procurement:

Sustainable Procurement is a process whereby organisations meet their needs for goods, services and utilities in a way that achieve value for money on a whole life basis in terms of generating benefits not only to the organisation but also to society and the economy, whilst minimising damage to the environment.

#### **1.1 Where we are now:**

The Council's net revenue budget for the next three years is set out in 'Changing Gear 2008 - 2011' and is approximately £15 million per year. It also details the three year capital programme which involves a spend of £7,194 of NNDC resources.

A supplier spend analysis has been undertaken by the Procurement Officer which identifies our main procurement areas and will help to prioritise the delivery of awareness raising and training to the areas of highest impact.

The North Norfolk District Council Procurement Strategy 2005 – 2008 includes references to sustainable procurement in section 9.

However, no guidance has yet been produced to help procurers understand and implement sustainable procurement principles, or how to specify these requirements in tender documents and to evaluate the compliance of submitted tenders. There has been no monitoring of the effectiveness of the Procurement Strategy in terms of sustainability.

### 1.2 Where we want to get to:

Ensure that sustainable procurement criteria are embedded in all procurement choices made by the Council. This will involve the following:

- A specific sustainable procurement policy is included in the Procurement Strategy.
- A sustainable procurement guide is produced to provide further information and advice to procurers.
- A questionnaire for prospective tenderers is produced and sent out with every tender/quote.
- A checklist is produced to enable procurers to assess each tender/quote in terms of its environmental, social and economic impact and whole life costing, and the Sustainability Coordinator is consulted on compliance with the policy for major procurement decisions.

### 1.3 How we will get there:

| What   | Who  | When                         | Resources                 | Progress    |
|--|--|------------------------------|---------------------------|-------------|
| Sustainable Procurement Champion identified  | Sustainability Coordinator supported by Procurement Officer as required  | 02.09.08                     | Within existing resources | Completed   |
| Ensure the revised Procurement Strategy contains a specific Sustainable Procurement Policy   | Sustainability Coordinator to draft policy<br>Procurement Officer to incorporate into Procurement Strategy                                 | Sept – Mar 09                | Within existing resources | In progress |
| Produce a sustainable procurement guide for use by procurers to include the Gov minimum standards for certain products 'quick wins' and communicate to all staff | Sustainability Coordinator draft guide<br>Procurement Officer to recommend adoption<br><br>Sustainability Coordinator /Procurement Officer | By Dec 08<br><br>By April 09 | Within existing resources | Completed   |

|  |   |                                    |                                  |           |
|--|---|------------------------------------|----------------------------------|-----------|
| Provide SP training to key staff making procurement decisions                          | Procurement Officer and Sustainability Coordinator  | April 09 – Sept 09                 | Within existing resources        |           |
| Provide SP training to all staff making procurement decisions                          | Procurement Officer and Sustainability Coordinator  | Oct 09 - March 10                  | Via Corporate training programme |           |
| Produce a sustainable procurement questionnaire to be sent out with all quotes/tenders | Sustainability Coordinator<br>Procurement Officer to provide comments   | By March 09                        | Within existing resources        | Completed |
| Produce a checklist to assist staff in writing and assessing tenders                   | Sustainability Coordinator<br>Procurement Officer to provide comments   | By March 09                        | Within existing resources        | Completed |
| Make guidance available to residents and businesses via the website                    | Procurement Officer<br>Sustainability Coordinator   | April 09                           | Within existing resources        |           |
| Work with suppliers to inform them of policy and help them meet policy requirements    | Sustainability Coordinator/Procurement Officer to take forward as part of wider work with business with Economic Development team (see 2.2.4 below) | From April 09                      | Within existing resources        |           |
| Monitor performance and review policy/guidance if necessary                            | Sustainability Coordinator  | From April 09<br><br>From April 11 | Within existing resources        |           |

## **Key theme 2**

### **Energy and Resources**

**Aims: To reduce the contribution to global Greenhouse Gas emissions made by the Council, and the District's residents and businesses. To reduce the use of resources, especially water, consumed by the Council and the District's residents and businesses.**

#### **2.1 Our own estate**

Our major sources of greenhouse gasses are from the buildings we own and occupy, and the travel we do for business.

Water use is mainly associated with the operation of our buildings and public conveniences.

Resource use is principally in the form of paper and office consumables.

#### **National Indicator 185 – CO<sub>2</sub> reduction from Local Authority Operations**

This indicator requires Local Authorities to establish a baseline carbon emission for their operations in FY 08/09, and then set reduction targets and report on progress annually.

##### **2.1.1 Where we are now:**

- Cromer office: Switched electricity supplier in October 2007 to Eon 'Go Green' which is sourced from 100% renewable energy.
- Data is collected regarding energy consumption (electricity and gas) from our three main offices; Cromer, Fakenham and North Walsham.
- Energy consumption has actually increased since financial year 2006-07 due to the installation of new lighting in the Cromer Office.
- 200 Intelli-panels were installed in the Cromer office in October 2007 to cut energy use, this appears to have reduced our bills by about £500 per month
- The Council currently do not monitor use of any other resources.

##### **2.1.2 Where we want to be:**

- Establish the Council's carbon footprint by June 2009 to enable a baseline to be set, against which future reductions will be measured.
- Reduce the Council's carbon emissions by 20% by June 2012; this is likely to require a reduction in the energy used in our buildings and the mileage we travel on business.
- Investigate the potential for generating our energy requirements from renewable sources.
- Investigate the potential for renewable energy infrastructure projects on Council owned land.
- Review the lease and fleet vehicle policies and business mileage rates to ensure eligible vehicles do not emit more than 160gms CO<sub>2</sub> per km, and to reduce any incentive to travel.

- Ensure all new Council buildings achieve BREEAM 'very good' as a minimum environmental standard and incorporate renewable technologies where feasible.
- Collate information on resource use to enable targets to be set to reduce resource use.

### 2.1.3 How will we get there:

| What  | Who  | When                          | Resources                                      | Progress   |
|---|--|-------------------------------|--|--|
| Apply to join the CT LA Carbon Management Programme. If unsuccessful implement our own internal Carbon Management Programme | Sustainability Coordinator<br>project officer<br>Strategic Director –<br>Environment project sponsor | Programme Commences<br>May 09 | 2 days per week from within existing resources | Application made Sept 09.<br>Further supporting information submitted Feb 09 |
| Collect carbon footprint baseline data in 08/09 for NI 185  | Sustainability Assistant supported by Sustainability Coordinator                                     | By 30.06.09                   | Within existing resources                      | In progress  |
| Produce a Green travel plan in FY 2009/10   | Sustainability Coordinator   | By 31.03.10                   | Within existing resources                      | In progress  |
| Review the lease car scheme and business mileage rates  | Car allowances working party   | FY 09/10                      | Within existing resources                      | In progress  |
| Set up an internal Environmental Management System to measure and monitor resource use                                      | Sustainability Assistant   | From April 10                 | Within existing resources                      |  |

## 2.2 Through the provision of Services

### 2.2.1 Leisure and Cultural Services

### 2.2.1.1 Where we are now:

NNDC owns 3 leisure centres at North Walsham, Sheringham and Fakenham which are managed by an external body (DC Leisure) on a 10 year contract which commenced in 2003. They use large amounts of energy that DCL are keen to reduce. The report accompanying the statutory Display Energy Certificate required for each building will provide a useful starting point for possible ways to reduce energy usage, but a more detailed energy assessment for each centre would be preferable.

The service area has three vehicles; a mobile gym and two countryside vehicles whose contracts were let in 2008.

The Council's grounds maintenance contract is up for renewal in April 2010. An options appraisal is to be carried out for the contract in 2008.

As part of the Fit for Business accreditation initiative there is the option to produce a staff travel plan.

### 2.2.1.2 Where do we want to be:

- 10% reduction in energy use in leisure centres by 2011
- Ensure biodiversity and sustainability issues are embedded in grounds maintenance contract when reviewed in 2010.
- Produce travel plan by April 2010

### 2.2.1.3 How will we get there:

| What  | Who  | When                       | Resources                                      | Progress  |
|---|--|----------------------------|--|---|
| Apply to join the CT LA Carbon Management Programme. If unsuccessful implement our own internal Carbon Management Programme for leisure centres | Sustainability Coordinator project officer<br>Strategic Director – Environment project sponsor | Programme Commences May 09 | 2 days per week from within existing resources | Application made Sept 09<br>Further supporting information submitted Feb 09 |
| Collect carbon footprint baseline data for leisure centres in 08/09 for NI 185  | Sustainability Assistant supported by Sustainability Coordinator                               | By 30.06.09                | Within existing resources                      | In progress   |
| Produce a staff   | Sustainability   | By 31.03.10                | Within   | In  |

|  |                            |             |                           |          |
|--|----------------------------|-------------|---------------------------|----------|
| travel plan in FY 2009/10                                | Coordinator                |             | existing resources        | progress |
| Provide input and advice to grounds maintenance contract | Sustainability Coordinator | By 31.03.10 | Within existing resources |          |

## 2.2.2 Strategic Housing

### 2.2.2.1 Where we are now:

#### Affordable Housing

The provision of affordable homes is a priority for the Council, with a Corporate target to supply 300 new affordable homes by 2009.

It is essential that if these homes are going to be truly affordable in the long term for the residents who will occupy them, they are built to as high an environmental standard as possible. This will help to reduce utilities bills and help to future-proof households against fuel poverty. The number of households in the District in fuel poverty is a National Indicator (NI187) and the Private Sector House Condition Survey (2007) identified that 5157 households in North Norfolk (11%) were in fuel poverty.

The table below shows the number of affordable dwellings and the environmental standard to which they have been built, in the District since 2006:

| Source of funding   | 2006/07 | 2007/08 |
|---|---------|---------|
| Housing Corporation meeting CSH L3 (or equivalent)                  | 71      | 44      |
| NNDC funded meeting CSH L3 (or equivalent)                          | 35      | 6       |
| Existing properties purchased and repaired to Building Regulations  | 0       | 7       |
| Developer funded and built to Building Regulations part L2 standard | 16      | 0       |
| TOTAL   | 122     | 57      |

#### Public Sector Housing

There is a requirement for all public sector stock to reach the 'decent homes' standard by 2010. Part of this standard has a minimum thermal insulation requirement. Victory Housing Trust have this responsibility for the transferred stock and there are 14/15 Registered Social Landlords with properties in the District who also have this responsibility.

Currently 76% of Victory Housing stock meets the decent homes standard.

#### Private Sector Housing

The 2007 stock condition survey reports that 40,617 dwellings in the District (77.3%) meet the decent home standard.

We have met the Public Service Agreement target to ensure that by 2021 all social housing and 75% of private properties occupied by vulnerable households meet minimum standards of decency.

In order to achieve the above we have made the following numbers of NNDC housing renewal grants:

|  | 2006/2007 | 2007/2008 | 2008/2009 |
|--|-----------|-----------|-----------|
| Approx number households receiving grant | 158       | 107       | 3         |

The housing renewal grant was suspended in March 2007 and the grants made in 2008/9 were as a result of applications received prior to the grant being suspended.

### **Home Energy Conservation Act 1995**

This requires all UK local authorities with housing responsibilities to prepare, publish and submit to the Secretary of State an energy conservation report identifying energy conservation measures, which it considers practicable, cost-effective and likely to result in a significant improvement in the energy efficiency of all residential accommodation in its area. Plans should aim to improve the energy efficiency of all domestic housing by 30% over a 10 year period from 1996, and to ensure our own housing meets the decent home standard. The last HECA report filed in 2004 showed we had achieved a 28.3% increase in energy efficiency in dwellings in the District between 1996 & 2004 which is just short of the 30% target required by the Act. National Government is currently considering repealing the HECA as new NI187 on fuel poverty replaces many of the measures of the Act. A decision is expected shortly.

### **Promotion of national grants for energy efficiency**

Outlook is used to promote national energy efficiency grants. Warmfront, one of the national grant suppliers provide returns on uptake in the District, which can be found in appendix 1.

### **National Indicator 187**

From 2009 the Council will have to report annually on National Indicator 187: 'Tackling fuel poverty – the percentage of people receiving income based benefits living in homes with a low and high energy efficiency rating'.

#### **2.2.2.2 Where we would like to be:**

- All Social Housing (existing and new build) to meet the decent homes target.
- All Registered Social Landlords active in the District to set and achieve higher energy efficiency targets than that of the decent homes standard.
- Use the decent homes standard in Private Housing as a minimum requirement, and set targets to increase energy efficiency of private

stock beyond these standards (this will be achieved through activity to meet NI187 targets on fuel poverty).

- Strategic Housing team to actively promote energy efficiency grants available from external agencies and to provide advice to residents regarding energy efficiency.
- Reduce fuel poverty in the District (targets to be set and measured as part of the NI 187 reporting process).

### 2.2.2.3 How do we get there:

| What  | Who   | When                                      | Resources   | Progress    |
|---|---|---|---|-------------|
| Encourage RSL active in the District to provide information to the Council on progress towards Decent Homes targets and levels of energy efficiency achieved in their stock | Head of Strategic Housing   | By 31.03.09 and annually thereafter       | Within existing resources   |             |
| Training for SH officers re national grants available and look to work with grant providers to deliver specific grants in the District.                                     | Energy Saving Trust and key Strategic Housing staff                               | By 30.12.08 Consider undertaking annually | Within existing resources   | Completed   |
| Develop a programme of measures to reduce fuel poverty by increasing the SAP rating of target households to a minimum of 65, where achievable                               | Head of Strategic Housing Sustainability Coordinator to provide input as required | April onwards 09                          | Within existing resources – re-launch NNDC housing renewal grant & employ a new energy efficiency project officer to distribute grant (revenue growth bid made to | In progress |

|                             |                           |                            |                           |  |
|-----------------------------|---------------------------|----------------------------|---------------------------|--|
|                             |                           |                            | Cabinet for post)         |  |
| Submit return against NI187 | Head of Strategic Housing | Annually from end March 09 | Within existing resources |  |

## 2.2.3 Planning and Building Control

### 2.2.3.1 Where we are now:

Development Control is the process by which development proposals (in the form of planning applications), are considered and decided. All planning decisions are made in accordance with the North Norfolk Core Strategy, unless there are sound planning reasons for not doing so. The main Core Strategy Development Control policies relevant to protecting the environment are EN6 Sustainable Construction and Energy Efficiency and EN9 Biodiversity and Geology. EN7 promotes the development of renewable energy infrastructure in the District. The Council also needs to ensure planning permission is not granted contrary to other environmental legislation such as the Environmental Impact Assessment Regulations 1999, Wildlife and Countryside Act 1981, Conservation (Natural Habitats) Regulations 1994 and Natural Environment and Rural Communities Act 2006.

The Conservation, Design and Landscape Section's prime purpose is to protect and enhance the built heritage and environment of North Norfolk. They offer advice and guidance to those who wish to repair, maintain, alter and extend historic buildings and advice to the authority and the public on a wide range of issues relevant to protection and management of trees, landscape and biodiversity. Biodiversity issues are dealt with separately under key theme 5.

The Building Control Team operates to enforce and oversee the Building Regulations. These are a set of national regulations set by the Government to ensure the health and safety of people in and around buildings, the conservation of fuel and power, and access for people to buildings. Part L is of particular relevance as it concerns the conservation of heat and power; four staff in the department have relevant qualifications to assess compliance with part L.

### 2.2.3.2 Where do we want to be:

- Ensure that Development Control staff are fully aware of relevant environmental legislation and that a consistent approach to biodiversity and sustainable construction issues is adopted across the District.
- Ensure international and national biodiversity legislation is given sufficient consideration when determining planning decisions.
- Ensure that appropriate advice regarding energy efficiency is provided to owners of historic properties.

- Ensure that relevant data submitted as part of the building control process is made available to monitor the effectiveness of Core Strategy policies, particularly EN6.
- Ensure that Building Control issue certificates to confirm compliance of all properties with part L of the building regulations.
- Train a member of staff as a non-domestic assessor to produce our Display Energy Certificate in-house.
- Use the skills and expertise of Building Control staff to assist with energy management of our own estate.

### 2.2.3.3 How do we get there:

| What   | Who   | When                       | Resources                 | Progress                                     |
|--|---|----------------------------|---------------------------|--|
| Officer training on biodiversity and sustainable construction  | Landscape Officer & Sustainability Coordinator                                  | June (SC) & Sept (BioD) 08 | Within existing resources | Sustainable construction training completed. |
| Member training on biodiversity and sustainable construction   | Landscape Officer & Sustainability Coordinator                                  | July 08                    | Within existing resources | Completed                                    |
| Investigate the possibility of sending out energy efficiency advice leaflets with planning decision notices  | Sustainability Assistant  | By 31.03.09                | Within existing resources | Completed – project not feasible.            |
| Ensure a biodiversity checklist, sustainable construction checklist and energy consumption statement are included as local requirements under the 1App standard planning application form. | Sustainability Coordinator, Landscape Officer & Development Control Manager (E) | Sept 08                    | Within existing resources | Completed                                    |

|   |   |  |                           |             |
|---|---|--|---------------------------|-------------|
| Ensure relevant planning applications are not registered unless they include the checklists above.  | DC support staff  | From 1 Oct 08                              | Within existing resources | In progress |
| Promote suitable energy efficiency advice to owners of historic properties  | Senior Conservation and Design Officer, Conservation and Design Officers  | On-going                                   | Within existing resources |             |
| Ensure that relevant data submitted as part of the building control process is made available to monitor the effectiveness of Core Strategy policies, particularly EN6. | Sustainability Coordinator & Head of Building Control                     | From Sept 08                               | Within existing resources |             |
| Investigate feasibility of training a member of staff as a non-domestic assessor to produce our DEC in-house  | Sustainability Coordinator & Head of Building Control                     | In time to produce the certificate in 2009 | £3k                       |             |
| Consider how best to use the skills and expertise of BC staff to assist with energy management of own estate  | Sustainability Coordinator as part of participation in Carbon Trust LACMP | From May 09                                | Within existing resources |             |

## 2.2.4 Economic Development

### 2.2.4.1 Where are we now?

There is some awareness amongst business of the benefits of a low carbon economy, in terms of cutting costs, benefiting from new future markets such as green technology and local energy production, reducing risks in the supply chain and demonstrating green credentials to customers. However there is a need to raise the overall level of awareness, ambition and action to do more.

Shaping Norfolk's Future, the economic partnership for Norfolk has a strategic ambition for Norfolk to become an exemplar of environmentally sustainable prosperity by 2015 and has established a Sustainable Prosperity group to oversee delivery of this ambition.

The NNDC economic development service area is in the process of developing and seeking funding for a green business hub, in North Walsham.

North Norfolk Business forum has been established to promote the interests of businesses in the District.

### 2.2.4.2 Where do we want to be?

- Ensure that all businesses in North Norfolk have access and support in order to reduce their use of energy and resources.
- Assist and support businesses to take advantage of new markets such as renewable energy.

### 2.2.4.3 How do we get there?

| What   | Who   | When                                 | Resources                 | Progress |
|--|---|--------------------------------------|---------------------------|----------|
| Run awareness raising event at North Norfolk Business Forum  | Head of Economic Development / Sustainability Coordinator | FY 09/10                             | Within existing resources |          |
| Work with Norfolk Climate Change Partnership to develop one stop shop for business advice, and other target in the Norfolk Climate Change Strategy | Sustainability Coordinator                                | Ongoing through partnership activity | Within existing resources |          |
| Work with North Norfolk  | Sustainability Coordinator                                | From Sept 09                         | Within existing resources |          |

|   |  |  |  |  |
|---|--|--|--|--|
| LSP 'Good jobs with prospects' thematic group to ensure the opportunities and constraints of the Environment are understood by local businesses |  |  |  |  |
|---|--|--|--|--|

## 2.2.5 Waste and cleansing

### 2.2.5.1 Where are we now?

These services are outsourced to NCS, with the contracts due for renewal at the end of FY 2010/11. Currently we recycle over 45% domestic waste and have over 600 trade recycling customers. In addition, just under 6,000 tonnes of green waste was composted in 2007/08.

### 2.2.5.2 Where would be like to be?

Ambitious targets for waste and recycling are set out in Changing Gear and the Service Business Plan; to increase the amount of domestic waste recycled to 55% by 2011 and increase the number of trade waste customers who recycle to 800 by 2011.

### 2.2.5.3 How do we get there?

The Waste and Cleansing business service plan contains activities that will result in the delivery of the above targets.

There is also a need to ensure environmental criteria are specified when the waste and cleansing contracts are renewed.

## 3. In our role as a community leader

### 3.1 Where are we now:

The table below shows the average estimated CO2 emission per capita for all District Councils in Norfolk.

#### Local and Regional Estimates Carbon Emissions by End User, 2006

|       | Industry and Commercial (excl. ETS installations or diesel railways) | Domestic | Road Transport (excl. motorways) (kt CO2) | Total emissions for indicator (kt CO2) | Population Thousands | Per capita Total CO2 (tonnes) |
|-------|--|----------|---|--|----------------------|-------------------------------|
| Great | 180  | 219      | 144                                       | 543                                    | 93                   | 5.8                           |

|                              |         |         |         |         |        |      |
|------------------------------|---------|---------|---------|---------|--------|------|
| Yarmouth                     |         |         |         |         |        |      |
| Broadland                    | 215     | 306     | 256     | 777     | 122    | 6.4  |
| Norwich                      | 444     | 282     | 115     | 841     | 130    | 6.5  |
| North Norfolk                | 261     | 264     | 254     | 780     | 101    | 7.7  |
| South Norfolk                | 300     | 287     | 413     | 1,000   | 116    | 8.6  |
| Breckland                    | 462     | 303     | 447     | 1,213   | 128    | 9.5  |
| King's Lynn and West Norfolk | 693     | 358     | 465     | 1,516   | 142    | 10.7 |
| NORFOLK TOTAL                | 2,555   | 2,020   | 2,095   | 6,670   | 833    | 55.1 |
| EAST OF ENGLAND TOTAL        | 15,792  | 13,912  | 11,172  | 40,876  | 5,607  | 7.3  |
| UK TOTAL                     | 194,860 | 153,605 | 102,840 | 451,305 | 60,588 | 7.4  |

From: Defra/ AEA Energy and Environment Local and Regional CO<sub>2</sub> Emissions Estimates for 2006 for the UK (Sept. 2008)

It can be seen that emissions in North Norfolk are the fourth highest out of the 7 district authorities in the County at 7.7 tonnes per person, which is higher than the regional average of 7.3 and the national average of 7.4.

The split between the 3 different emitter groups is roughly equal and as follows:

- Industry and commercial 33%
- Domestic 34%
- Road Transport 33%

### 3.1.1 NI186 Per capita CO<sub>2</sub> emissions in the LA area

Action by local authorities will be critical to the achievement of the Government's climate change objectives. Local authorities are uniquely placed to provide vision and leadership to local communities by raising awareness and to influence behaviour change. In addition, through their powers and responsibilities (housing, planning, local transport and powers to promote well-being) and by working with their Local Strategic Partnership, Local Authorities can have significant influence over emissions in their local areas.

The indicator relies on centrally produced statistics to measure end user CO<sub>2</sub> emissions in the Local Area from:

- Business and Public Sector,
- Domestic housing, and
- Road transport

This data is already captured and analysed to produce area by area carbon emissions per capita. The percentage reduction in CO<sub>2</sub> per capita in each Local Authority will be reported annually. The statistics for 2005 will be used as the baseline from which performance improvements will be measured.

The following target savings have been agreed as part of the Norfolk Local Area Agreement:

|                   | Total savings as a % of emissions in 2005 | Savings with local authority influence |
|-------------------|---|--|
| Breckland DC      | 14.3%                                     | 5.6%                                   |
| Broadland DC      | 13.2%                                     | 5.7%                                   |
| Great Yarmouth BC | 12.9%                                     | 5.7%                                   |
| KLWNBC            | 12.5%                                     | 4.0%                                   |
| North Norfolk DC  | 13.1%                                     | 5.2%                                   |
| Norwich CC        | 11.8%                                     | 4.6%                                   |
| South Norfolk DC  | 13.4%                                     | 4.6%                                   |

NNDCs target of 5.2% reflects the fact that it has been predicted that this is the percentage of the total target over which the Council has a direct influence. The total savings target includes contributions from the impact of legislation, national policy, national grant schemes etc.

### 3.1.2 North Norfolk Community Partnership

The partnership support delivery of the North Norfolk Sustainable Community Strategy, through the establishment of three thematic working groups that are linked to the three priorities identified in the Strategy:

- Improved Housing
- Good jobs with prospects
- A nice place to live, work and visit.

This third thematic group includes the environment in its widest sense and will be proactive in developing and delivering an action plan to contribute to the two climate change national indicators (186 & 188) adopted by the Norfolk Local Area Agreement.

### 3.2 Where do we need to be:

- Provide support to community based initiatives aiming to achieve reductions in CO<sub>2</sub> emissions.
- Provide financial incentives to enable individuals and groups to make changes to reduce their emissions.
- Quantify and report on the impact of these initiatives, and other initiatives underway in the District.
- Education and promotion issues are dealt with separately under key theme 4.

### 3.3 How do we get there:

| <b>What</b>   | <b>Who</b>  | <b>When</b>                      | <b>Resources</b>          | <b>Progress</b> |
|---|---|----------------------------------|---------------------------|-----------------|
| Work with North Norfolk LSP 'Quality of Life' thematic group to support community environment initiatives     | Sustainability Coordinator & Sustainability Assistant | From initial meeting on 24.09.08 | Within existing resources | In progress     |
| Investigate options for Norfolk Councils to provide a loan/grant scheme for micro generation for householders | Norfolk Climate Change Task Force                     | Jan – Mar 09                     | Within existing resources |                 |

Action planned under the Strategic Housing and Economic Development service areas will also contribute to the delivery of the aims outline in 3.2.

### **Key theme 3 Transport**

**Aim: To reduce the Council's CO<sub>2</sub> emissions generated through business mileage without affecting service delivery, and encourage initiatives to reduce car travel in the District.**

North Norfolk is a predominantly rural area with a dispersed population, which presents difficulties in providing a comprehensive public transport network. The only public rail service is the Bittern community rail line, linking Sheringham with Norwich. Most of the villages in the District are served by only a very limited public bus service and two of the seven towns, Holt and Stalham, are deemed by the County Council not to benefit from the desired level of service for their respective populations. The 'Coast Hopper' bus service runs from Sheringham to Hunstanton, along the coast. There are a number of community transport initiatives operating in the District, with the latest information regarding what is available collated by Voluntary Norfolk. Reflecting the modest level of public transport services across the District it is no surprise that the majority of personal travel is largely car based, with the 2001 census finding 82% households own at least 1 car and 33% own 2 or more cars. With this reliance on road based transport there are inevitable adverse impacts from CO<sub>2</sub> emissions, air quality, noise, public safety and general amenity.

#### **Where are we now?**

- The Core Strategy strategic policy SS1 focuses the majority of new development in limited locations to reduce the future need to travel between homes, jobs, services and facilities.
- The Norfolk Local Transport Plan gives priority to walking cycling and public transport, and includes a target to reduce carbon dioxide emissions from road transport by 10% by 2010.
- The Council itself has a high dependency on car use to carry out its business.
- The Active Travel project, part of the North Norfolk Community Partnership, aims to provide an improved network of safe routes to local services for pedestrians and cyclists.

#### **Where do we want to get to?**

- We want to help reduce the need to travel and encourage the use of more environmentally friendly means of transport by employees and residents.
- Continue to work in partnership with NCC in delivering the Local Transport Plan.
- Encourage use of the Bittern Line, including through the provision of improved parking facilities at stations, and use the Council's influence to seek improvements to the service

#### **How do we get there?**

| <b>What</b> | <b>Who</b> | <b>When</b> | <b>Resources</b> | <b>Progress</b> |
|-------------|------------|-------------|------------------|-----------------|
|-------------|------------|-------------|------------------|-----------------|

|  |   |  |                           |             |
|--|---|--|---------------------------|-------------|
| Locate new growth in areas where there is already a good level of services   | DC officers                                 | From adoption of the Core Strategy Sept 08 | Within existing resources | In progress |
| Encourage the provision of pedestrian and cycle links in new developments  | DC officers                                 | From adoption of the Core Strategy Sept 08 | Within existing resources | In progress |
| Promote cycling and facilities for cyclists  | Sustainability Assistant via NNDC website   | Text completed by 31.03.08                 | Within existing resources | In progress |
| Review staff travel arrangements including mileage rates and CO <sub>2</sub> emissions of cars used on council business, and introduce a staff green travel plan | Car allowances working party                | By March 2010                              | Within existing resources | In progress |
| Promote the use of low carbon vehicles and alternative fuels   | Sustainability Assistant via NNDC website   | Text completed by 31.12.08                 | Within existing resources | In progress |
| Work with fuel station operators in the District to encourage the provision of alternative fuels   | Sustainability Coordinator                  | FY 09/10                                   | Within existing resources |             |
| Investigate the possibility of setting improved CO <sub>2</sub> emission standards for taxi and private hire vehicles licensed to                                | Sustainability Coordinator & licensing team | FY 09/10                                   | Within existing resources |             |

|  |   |         |                           |             |
|--|---|---------|---------------------------|-------------|
| operate in the District  |   |         |                           |             |
| Promote use of the Bittern Line and other railways and use the Council's influence to campaign for improvements to the service | Via membership of the Bittern Line Community Rail Partnership | ongoing | Within existing resources | In progress |

## **Key theme 4**

### **Education and promotion**

**Aim: To create greater awareness of climate change and environmental sustainability amongst the Council's employees and the Districts residents, businesses and visitors, so that they feel empowered and supported to take action to reduce their environmental impact.**

By encouraging greater awareness of climate change and sustainability through information provision and education we can help to encourage employees, residents, business and visitors to change their behaviour in order to reduce their environmental impact. By making everyone aware and encouraging people to do their bit we hope to create ambassadors of climate change and supporters of the environment within the local community and demonstrate why it is important for everyone to play their part in promoting a more sustainable way of living.

#### **4.1 Where we are now?**

##### **4.1.1 Green Build**

The Council has held the annual Green Build event since 2004. The aim of the event is to provide information and advice to the District's residents and visitors on how to reduce the environmental impact of their lifestyles, and to promote sustainable construction.

##### **4.1.2 Environment Awards**

The annual NNDC Green awards aim to reward community based projects which have done the most to preserve and enhance the District's precious environment.

##### **4.1.3 Graham Allen awards**

Since 1982 a bronze plaque has been presented annually by the Council to the scheme considered to make the most significant contribution to the conservation of the built environment within the District. Schemes considered worthy of commendation are also acknowledged by the presentation of certificates awards have been made for both the conservation and restoration of listed and unlisted buildings and also for new buildings which, through their design, including the innovative use of traditional building forms and detailing, contribute to the built environment.

##### **4.1.4 Energy Bus**

The Energy Bus is a purpose built 27-foot long information bus designed specifically for shows and events to act as a focal point for energy conservation promotion. The bus, which can be seen around the county promoting energy efficiency, has been designed to run on biodiesel. It has demonstration equipment on board, including renewable energy devices, low energy lighting, insulation samples and information leaflets.

Onboard the bus there is a scaled down working solar thermal panel, a photovoltaic panel and a small 300W wind turbine. There are also a variety of

insulation samples to look at such as sheep's wool and recycled paper fibre, and a low energy lighting demo unit. The Energy Bus is shared by all Norfolk district councils to promote renewable energy and energy efficiency. However there is currently no one qualified to drive the bus at NNDC and so we have therefore been unable to make use of it at public events such as Green Build.

#### 4.1.5 CRed North Norfolk website

In 2007 the Council and CRed (Community Carbon Reduction Programme) launched the CRed North Norfolk mini-website which provides advice and support for individuals on how to reduce their carbon emissions and also allows individuals to pledge to make a change in their behaviour. Once pledges are complete the carbon savings of the actions can then be quantified. This helps the Council assess the impact of changes made by individual residents.

A number of schools initiatives exist lead by Norfolk County Council's Environmental and Outdoor Learning Team, including the Schools Waste Action Club (SWAT), Norfolk Schools Sustainability Awards, and the Energy Busters scheme. More information can be found at [www.schools.norfolk.gov.uk](http://www.schools.norfolk.gov.uk)

There is currently no environmental sustainability awareness training offered to Council employees.

#### 4.2 Where do we want to be?

- Provide information and training to staff so that they can consider sustainability issues when carrying out their duties
- Provide comprehensive information to residents in order that they can make the necessary lifestyle changes to reduce their energy use and carbon footprints and understand and adapt to the future climate change scenarios.
- Continue to reward good environmental practice in the District.
- Develop an Environmental Sustainability communications strategy and action plan

#### 4.3 How do we get there?

| What   | Who   | When            | Resources                 | Progress    |
|--|---|-----------------|---------------------------|-------------|
| Provide comprehensive Sustainability information to be uploaded on the new Council website | Sustainability Assistant & Sustainability Coordinator | By end March 09 | Within existing resources | In progress |
| Assist with delivery of Green Build event and monitor impact                               | Sustainability Coordinator                            | Ongoing         | Within existing resources | In progress |

|  |  |   |   |             |
|--|--|---|---|-------------|
| Manage delivery of the annual Environment Awards   | Sustainability Coordinator / Assistant                 | Ongoing   | Within existing resources                       | In progress |
| Provide verbal advice to residents on sustainability issues  | Sustainability Coordinator / Sustainability Assistant  | Ongoing   | Within existing resources                       | In progress |
| Continue to contribute to the energy bus and train 2 officers to drive bus   | Sustainability Assistant<br>Sustainability Coordinator | By Sept 10  | £500 annual contribution<br>£400 to train staff |             |
| Ensure Outlook contains at least one sustainability article per issue  | Sustainability Assistant                               | Ongoing   | Within existing resources                       | In progress |
| Provide and promote the CRed North Norfolk Website as a method of encouraging and monitoring residents to 'do their bit' | Sustainability Coordinator<br>UEA - CRed               | Ongoing   | £500 per annum for website hosting cost         |             |
| Ensure staff induction includes sustainability training  | Sustainability Coordinator/Human Resources Team        | From April 09                                     | Within existing resources                       |             |
| Develop a Sustainability Team intranet page  | Sustainability Assistant                               | By end Oct 08                                     | Within existing resources                       | Completed   |
| Develop an Environmental Sustainability communications strategy and action plan  | Sustainability Coordinator & Communications Manager    | By end March 09                                   | Within existing resources                       | In progress |
| Explore whether all key reports to committee should undertake a Sustainability   | Sustainability Coordinator<br>Democratic Services Team | Explore Jan – March 09<br>Implement from April 09 | Within existing resources                       |             |

|            |  |  |  |  |
|------------|--|--|--|--|
| Assessment |  |  |  |  |
|------------|--|--|--|--|

Other staff awareness raising events will be undertaken as part of the delivery mechanism of the Council's CO<sub>2</sub> reduction target under key theme 2.

## **Key theme 5 Management of Bio and Geo-diversity**

**Aim: To protect and enhance the District's natural resources**

North Norfolk is fortunate to contain a wide diversity of important habitats; from the saltmarshes, sand dunes and soft cliffs of the coast, to the heaths of the Holt-Cromer ridge, plateau woodlands and the gateway to the Norfolk Broads in the East. The District contains many nationally and internationally important wildlife sites, ancient woodlands, county wildlife sites and local nature reserves. The Council's Annual Monitoring Report provides information on the condition of the national and international sites in the District.

The Council has a statutory responsibility to ensure nationally and internationally designated wildlife sites and protected species are not damaged as a result of development control decisions.

### **National Indicator 197: Improved Local Biodiversity – proportion of Local Sites where active conservation management is being achieved**

The Council needs to work with the County Wildlife Site (CWS) steering group (hosted by Norfolk Wildlife Trust) to achieve and report on this target. It comprises one of the 35 national indicators adopted by the Norfolk Local Area Agreement.

#### **5.1 Where are we now?**

The Conservation, Design and Landscape team provide advice to DC regarding the potential biodiversity impact from planning applications. As part of the 1App local requirements applicants will have to submit a biodiversity questionnaire with relevant planning applications. However a lack of information on the location of the biodiversity resource in the County exists and in order to begin to address this, the Norfolk Biodiversity Information Service requires additional funding. This will enable the Council and developers to access high quality environmental information which should ultimately mean that biodiversity is protected as part of the Development control process.

The Council owns and manages a number of sites including Holt Country Park, Beeston Cliffs SSSI, Sadler's Wood, Spa Common Folly, Pretty Corner Woods, Links Wood, Warren Wood and Burnt Hills Wood. Management plans exist for all these sites and the sites are managed by the Leisure and Cultural Services section. In addition the Leisure and Cultural Services section manage the grounds maintenance contract for Council owned land.

Funding is required to assess the current status of CWS in North Norfolk and implement a variety of programmes to protect and enhance the CWS system in order that we can meet NI197 targets.

We are a member of, and contribute funding to the following groups:

- Norfolk Biodiversity Partnership, with officer representation on the Steering Group and Coastal topic group.
- Wash and North Norfolk Coast European Marine Site Management Project (£2,700 pa, officer and member representation).
- Norfolk coast AONB (£15k p.a.) Officer and member representation on the Core Management Group.
- NWT for maintenance of the CWS database (£700 pa)

## 5.2 Where do we need to get to?

- Better provision of biodiversity information for use in decision making in the Development Control process.
- Ensure all new developments do not damage the District's biodiversity and where possible enhance it.
- Ensure all the sites we directly manage are in favourable condition for wildlife.
- Meet targets set under NI197 that require the positive management of local wildlife sites.

## 5.3 How do we get there?

| What  | Who  | When                                     | Resources  | Progress      |
|---|--|--|--|---------------|
| Make financial contribution to the Norfolk Biodiversity Information Service                               | Cabinet  | From April 09                            | Additional resources required: £9k as part of CLD Growth Bid Sept 08   | Bid submitted |
| Review the Council's own land management and maintenance policies to ensure the promotion of biodiversity | Countryside and Parks Manager (with input from Landscape Officer and Sustainability Coordinator) | 2010 (contract tendered)                 | Within existing resources  |               |
| Produce SPD for Biodiversity  | Cabinet to decide on resources<br>Landscape Officer to produce document                          | From April 09                            | Additional resources required: £4.5k as part of CLD Growth Bid Sept 08 | Bid submitted |
| Ensure all Council owned sites are optimally managed for Biodiversity                                     | Landscape Officer to provide advice when management plans are                                    | When individual site plans are reviewed. | Within existing resources  |               |

|   |  |               |   |               |
|---|--|---------------|---|---------------|
|   | reviewed.  |               |   |               |
| Achieve and report on NI197   | Cabinet to decide on resources Landscape Officer & CWS partnership group | From April 09 | Additional resources required: part of CLD Growth Bid Sept 08 | Bid submitted |
| Officer training on Biodiversity legislation  | Landscape Officer  | By March 10   | Within existing resources                                     |               |
| Ensure biodiversity officer advice is taken into account during the development control process   | DC officers Landscape Officer  | Ongoing       | Within existing resources                                     | In progress   |
| Continue to provide financial and officer support to; Norfolk Biodiversity Partnership Wash Marine site management group Norfolk coast AONB | Landscape Officer Coastal Planning Officer                               | Ongoing       | Within existing resources                                     | In progress   |

## Key theme 6 Adapting to a changing climate

**Aim: To ensure the Council has assessed and addressed the risks and opportunities of a changing climate to our own service delivery and to the District's residents and businesses.**

The changing climate will have many effects on a number of different areas including our daily lives and on the environment in which we live.

The UK Climate Impacts Programme publishes scenarios on behalf of the Government showing how the UK's climate might change during this century, with the latest published in 2002 (UKCIP02) and the next due in spring 2009.

Using UKCIP02 data, scenarios developed under the University of East Anglia's CRANIUM project and the IPCC (2007) method of describing likelihood, the following impacts are predicted **for Norfolk by the 2080s:**

- Increased annual average temperature *virtually certain*
- Rise in annual average temperature of 1-5°C *extremely likely*
- Increase in heatwaves *extremely likely*
- Increased winter rainfall and intense rainfall events *likely*
- Sea level rise of up to +0.88m *likely*
- Drier summers, with average daily rainfall decreasing by as much as 100% *likely*
- Increase in duration of summer dry periods by up to 10 days *more likely than not*

### NI188 – Planning to adapt to climate change

This indicator is designed to measure progress in preparedness in assessing and addressing the risks & opportunities of a changing climate. The aim of this indicator is to embed the management of climate risks and opportunities across the all levels of services, plans and estates. It is a process indicator which gauges progress of an LAA to:

- Assess the risks and opportunities comprehensively across the area;
- Take action in any identified priority areas;
- Develop an adaptation strategy and action plan setting out the risk assessment, where the priority areas are – where necessary in consultation & exhibiting leadership of local partners - what action is being taken to address these, and how risks will be continually assessed and monitored in the future; and
- Implement, assess and monitor the actions on an ongoing basis

The following targets have been agreed as part of the Norfolk LAA:

| 2008/09                            | 2009/10 | 2010/2011 |
|------------------------------------|---------|-----------|
| Level 0 (full baseline)<br>Level 1 | Level 2 | Level 3   |

The following actions are a summary of what is required to meet the above targets;

- Full baseline established, agreed with partners (2008/09)
- Public declaration of commitment to tackle climate change in partnership through publication of Norfolk Climate Change Strategy, owned by LSP (2008/09)
- Key vulnerabilities and opportunities identified within each council and communicated to all service heads, based on UKCIP02, early action initiated on top priorities (2008/09)
- Local Climate Impacts Profile conducted for Norfolk, based on UKCIP08, assessing implications for all sectors (2008/09-2009/10)
- Vulnerabilities and opportunities for Norfolk identified and agreed with partners – (2009/10)
- Priority actions identified, agreed with partners and initiated (2009/10)
- Comprehensive detailed action (delivery) plans in place for all vulnerabilities and opportunities (2009/10-2010/11)
- Adaptation embedded in strategies, plans, investment and decision-making process across all service areas (2010/11)

### 6.1 Where are we now?

- The North Norfolk Core Strategy policy EN6 includes a requirement for new development to be adapted to withstand future climate change, and the North Norfolk Design Guide provides advice on how to achieve this.
- NI188 has been adopted as one of the 35 priorities for the Norfolk LAA. A baseline report for the County has been produced by Mott McDonald and it is anticipated that action to reach the above targets will be undertaken on a County basis, with each District contributing and carrying out activities as required through membership of the Norfolk Climate Change Task Force.
- The Council's Coastal Strategy Team are dealing with adaptation issues in relation to the coast, and are producing a Coastal Management Plan that will identify some potential options for adaptation along the coastal frontage in the future. They are working with Defra and coastal communities on the development of an 'adaptation toolkit'.

### 6.2 Where do we want to get to?

- Ensure that NNDC fully contribute to and achieve the above targets in relation to NI188.
- Ensure we communicate the need for adaptation to community groups and residents and support them in doing so.

### 6.3 How do we get there?

| What                   | Who                                | When              | Resources       | Progress    |
|------------------------|------------------------------------|-------------------|-----------------|-------------|
| Ensure there is a NNDC | Sustainability Coordinator/Coastal | When group is set | Within existing | In progress |

|   |                            |                             |                           |             |
|---|----------------------------|-----------------------------|---------------------------|-------------|
| rep on the Norfolk CCTF adaptation working group.   | Planning Officer           | up – likely to be Winter 08 | resources                 |             |
| Ensure there is information on future climate scenarios and adaptation on the Council website | Sustainability Coordinator | Text produced by 31.03.09   | Within existing resources | In progress |

Actions contained in the Coastal Strategy Service Delivery plan will also contribute to the overall aim of this theme, in relation to the coastal environment