

BROXBOURNE BOROUGH COUNCIL

TACKLING CLIMATE CHANGE

**A SUSTAINABILITY PLAN FOR 2013 -
2018**



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1. Introduction

In response to the changing climate and the rise in energy costs over recent years, Broxbourne Borough Council produced a Climate Change Strategy in 2009 and a Carbon Management Plan in 2012. This Sustainability Plan (Plan) supersedes both documents and sets out the Council's commitments to become more sustainable over the period 2013 to 2018. The Plan will act as a driver for energy efficiency and climate change initiatives. The Plan assumes that the scientific evidence of climate change is undeniable and action is required.

2. Partnership working

The Plan is only achievable with the support of partners and the wider community. The community is fundamental to reducing the ecological footprint of the Borough, both in terms of energy and water consumption, air quality and waste reduction. The Council works with a range of partners to achieve sustainability benefits, such as with Hertfordshire County Council and the Environment Agency to improve drainage and reduce flooding. Other partners undertake sustainability initiatives to reduce the Borough's consumption, such as Thames Water who have implemented a variety of supply and demand measures, for example domestic water metering, via their Water Resources Management Plan.

3. National policy and legislative context

The Climate Change Act 2008 has set a target for the UK to reduce greenhouse gas emissions by 80% compared to 1990 levels by 2050. To meet this target, action by local authorities and the community are crucial. If the Council signs up to the Local Government Association's Climate Local Agreement, the Council would be eligible to receive guidance and best practice from organisations under similar pressures which are seeking to achieve comparable savings and sustainability aims. The delivery of actions to help tackle climate change also contributes to the pursuit of wider Council objectives, as shown in section 5.

The Carbon Reduction Commitment Energy Efficiency Scheme, introduced by the Climate Change Act, established a mandatory carbon reduction scheme which applies to all UK organisations using more than 6,000Mwh per year of electricity. The scheme requires participants to buy allowances from the Government each year for every tonne of carbon they emit relating to electricity and gas. The price of the allowances is currently set at £12 per tonne of carbon dioxide for the 2011/12 reporting year, which is likely to increase in subsequent years. The Council consumed 3,392Mwh of electricity in 2012/13 and is not required to participate in the scheme. However, there is a risk that the eligibility criteria may be revised in subsequent years to include the Council.

The Energy Act 2008 introduced the Feed-In Tariff as an incentive for small scale renewable power. The Council has capitalised on this Government initiative by installing photovoltaic panels at John Warner Sports Centre, Grundy Park Leisure Centre, Hoddesdon Industrial Centre and Impresa Park in 2012.

The Energy Act 2011 included provisions for the 'Green Deal' – a financing framework to enable the provision of fixed improvements to the energy efficiency of households and non-domestic properties. As part of the local authority requirements under the Home Energy Conservation Act, the Council acts as a promoter, encouraging the take up by residents and landlords of third party energy efficiency improvements and funding.

4. The local context

Energy consumption by the Council

The Council is a major consumer of energy. Even with the energy reduction projects and energy efficiency measures being undertaken, the Council will still be a major consumer of energy so that services and operations can be delivered. The Council's [annual monitor](#) of consumption of energy at Council sites¹ showed that total energy consumption increased by 11.5% and the total expenditure on energy consumption increased by 10.2% between 2011/12 and 2012/13. A contributing factor to the high energy consumption in 2012/13 was the cold winter conditions which increased gas consumption. The Council emitted circa 4,072 tonnes of carbon dioxide equivalent in 2012/13.

Condition of housing stock

The housing stock in the Borough is a combination of housing association and private properties. The Council is under a statutory duty (section 3 of the Housing Act 2004) to regularly review housing conditions and every five years is considered to be an acceptable cycle by housing and environmental health professionals. The last housing conditions survey was undertaken in 2009 when there were circa 37,200 dwellings in the Borough. The survey identified that the overall energy efficiency of the housing stock in the Borough performed slightly better than the national average. It also showed that 17,679 dwellings (47.5% of total) had less than 100mm of loft insulation (270mm is the standard) and 17,836 dwellings (47.9% of total) had un-insulated cavity walls. Between 2008/09 and 2011/12 there were 7,044 loft insulations and 7,518 cavity wall insulations in the Borough. This uptake is below the national average. There were 4,800 households in 2010, 12.9% of households in the Borough, categorised as being in fuel poverty, which is below the national average. Domestic electricity consumption in the Borough has been higher than the national average each year between 2005 and 2011, and domestic gas consumption in the Borough has been higher than the national average each year between 2008 and 2011.

Water consumption in the Borough

The Environment Agency's report in 2010 on the environment in Hertfordshire showed that household water use has declined in all districts except the Borough of Broxbourne. Consumption increased by around five litres per head per day between 2007/08 and 2008/09. Total water consumption across the Council's sites decreased by 19% between 2011/12 and 2012/13.

Planning policy

As the local planning authority, the Council makes policies to encourage sustainable practices within the Borough. The forthcoming Local Plan, for adoption in early 2015, will seek to achieve a closer relationship between homes, jobs and services so that more journeys can be made by public transport, walking and cycling. New development sites will be selected that are ideally located to existing urban areas with access to town centres,

¹ The figures exclude hostels, commercial properties (including the depot – Broxbourne Services and Central Control) and leased out properties (including consumption directly attributed to the Essex Fertility Clinic and Probation Services at the Bishops' College complex).

railway stations and bus routes. The Local Plan will also place an emphasis on the high quality design, including the architecture and energy efficiency, of buildings.

Waste management

The Borough produces more domestic waste than any other locality in Hertfordshire. The community's recycling rate in 2012/13 was 39.7% (taking into account contamination the 2012/13 recycling rate was 36.5%), down 0.4% compared to the previous year. There is scope to reduce the amount of waste thrown away and increase the Borough's recycling rate, which is one of the Council's corporate objectives.

Biodiversity

There is 722 acres of open space in the Borough, the equivalent of 31.1m² of open space per resident. The Council acts as a steward of the land to protect, conserve and improve the Borough's biodiversity. Trees in open spaces have a positive impact to help mitigate against the impacts of climate change, including providing a cooling effect, storing storm water, storing carbon dioxide and acting as a purifier for air and water. The Council undertakes sustainable practices in the management of the land by, where possible, leaving chipped prunings and other arisings on the land to decompose naturally or moving them to in-situ composters. Water use is minimised by the Council using mulches and water retaining pellets for beds, and watering tubes when planting trees.

Transport

The geography of the Borough encourages the use of a car and 82.5% of households use a car, as shown in the 2011 Census. The Borough has excellent north south rail links and, despite being outside the lifetime of the Plan, longer term projects such as the West Anglia mainline widening and Crossrail 2 will add further capacity. However, the east west public transport links in the Borough are poor, which is a common problem throughout Hertfordshire.

The Council has improved the network of footpaths and cycleways in the south of the Borough since 2010. The construction of the Paul Cully bridge across the A10, the footway and cycleway along Winston Churchill Way and the recent cycle lane along Dark Lane to join Goffs School with St Mary's School have linked communities east and west of the A10. The projects have provided a safe route for children travelling to and from St Mary's School and walking and cycling access to places like the Lee Valley Regional Park, Cedars Park, Waltham Cross town centre and nearby railway stations.

Changing climate

The east of England is already experiencing an increase in extreme weather conditions, including precipitation and storms, cold conditions and hot weather. These weather variances are expected to increase further in subsequent years. The Council, community and the animal and plant life in the Borough will need to adapt to the changing climate and environmental conditions.

5. How the Sustainability Plan links with wider Council objectives

The Council's Mission Statement refers to maintaining and improving value for money services, an underlying prerequisite of the actions listed in the Plan. The Plan will also help to progress the Council's broader corporate objectives, which include:

- Enhance sustainable transport, e.g. bus, rail, walking, cycling, and campaign to improve the transport to and in the Borough;
- Encourage renewable energy and energy conservation measures;
- Encourage residents to reduce waste and increase recycling;
- Improve the energy efficiency of properties in all sectors;
- Enhance parks and open spaces; and
- Develop localised responses to local issues.

6. High level aims of the Sustainability Plan

The Council is a service provider, a land owner, an estate manager and a community leader. As part of its role and to deliver the corporate objectives, the Council will progressively address the risks and pursue the opportunities presented by a changing climate by:

- Delivering services that are resource efficient, less carbon intensive, resilient and that protect those who are most vulnerable to climate and air quality impacts;
- Ensuring that Council buildings and operations are resource efficient, use clean energy (energy not produced from fossil fuels) and are well prepared for the impacts of a changing climate; and
- Helping local people and businesses to be smarter about their energy use and to prepare for climate impacts.

7. Outputs of the Sustainability Plan

The intended outputs of the Plan are to:

- Seek continuous improvement in the reduction of overall energy consumption across Council facilities, taking into account the erratic nature of the weather, the opportunities of technology and changes in service provision;
- Seek continuous improvement in the reduction of overall carbon emissions across the Council's estate and operations, taking into account the opportunities of technology and changes in service provision;

- Seek continuous improvement in the reduction of overall water consumption across Council facilities, taking into account the opportunities of technology and changes in service provision;
- Increase the proportion of renewable energy generated across the Council's estate;
- Increase the uptake of measures by the community to improve the overall energy efficiency of the housing stock in the Borough, as surveyed by the Council on a five year frequency (the next survey will take place in 2014);
- Reduce the amount of waste produced and increase recycling rates by the community;
- Protect, conserve and improve the Borough's biodiversity; and
- Promote the uptake of sustainable forms of travel to increase levels of walking and cycling in the Borough.

8. Scope of the Sustainability Plan

The scope of the Plan includes the following themes in the context of the Council's estate and operations and more widely throughout the Borough of Broxbourne:

- Energy;
- Water;
- Waste;
- Biodiversity;
- Transport;
- Design;
- Resilience;
- Air quality; and
- Food production.

9. Finance and risks

A lead officer is assigned to each action listed in the Plan. Actions will be delivered within existing budgets or capital funding will be sought for projects with a strong business case.

There are a number of drivers which necessitate action by the Council in the sustainability and climate change domains. Financial pressures, both in the form of rising utility prices above the rate of inflation and budgetary constraints with the Council needing to find year on year savings, requires the Council to consider appropriate energy saving measures and renewable energy options across its estate and operations. The outlook suggests that for

the duration of the Plan the financial pressures show no sign of abating. There is also the possibility that in future years the Council is open to the Carbon Reduction Commitment Energy Efficiency Scheme and its associated costs, as noted in section 3.

Government expectations and, to a lesser extent, public interest place an onus on the Council to show leadership in the mitigation and adaption to climate change. There may be reputational damage to the Council in the longer term by not embedding sustainability principles into the delivery of operations and services. The Government has set ambitious targets for the UK to reduce greenhouse gas emissions by 80% compared to 1990 levels by 2050 and, depending on the level of commitment from the Government, the guidance and legislation may increasingly require local government to act to help meet these obligations.

In an environment where utility costs continue to rise above the rate of inflation and producing high volumes of waste is uneconomical, there is plenty of scope to reduce the Council's and the community's ecological footprint simultaneously with making savings. The rationale for the Council to undertake the actions in the Plan and to continually develop further initiatives over the duration of the Plan and beyond is compelling.

10. Monitoring of the Sustainability Plan

The Plan will be reviewed on an annual basis and a progress report will be provided to the Council's Cabinet in September each year. Good practice and technology are constantly evolving in the sustainability and climate change domains. The Plan is fluid so the Council can capture relevant opportunities as they arise. New actions will be added to the Plan when appropriate and there is a clear business case.

11. Action plan

The Council has developed an action plan to drive sustainability, energy efficiency and climate change initiatives across the Council's estate and operations and more widely throughout the Borough of Broxbourne. The Council will prioritise work that delivers multiple Council objectives and is cost effective.

Update on the carbon management projects listed in the Carbon Management Plan

The Carbon Management Plan originally estimated the Council may be able to reduce emissions by 1,213 tonnes of CO₂ per annum from the 2010/11 level and achieve associated savings of £227,600 per annum. An update on progress against the carbon management projects listed in the Carbon Management Plan is shown below.

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
1	Replace Grundy Park Leisure Centre sports hall discharge lamps with new comp	Maintenance Manager	£18,479	N/A	£2,453	N/A	7.5	N/A	2012	Complete
2	Voltage optimisation in Bishops' College complex	Bishops' College Facilities Manager	£17,831	N/A	£5,335	16.3	3.4	1.3%	2013	Complete
3	Install 25kW(p) PV at Impresa Park	Head of Environmental Health	£48,695	N/A	£3,244	10	15	0.8%	2012	Complete – energy price inflation may result in the reduction of the payback period
4	Install 75kW(p) PV at Hoddesdon Industrial Centre	Head of Environmental Health	£146,085	N/A	£10,784	30	13.5	2.4%	2012	Complete – energy price inflation may result in the reduction of the payback period
5	Install 50kW(p) PV at Grundy Park Leisure Centre	Head of Environmental Health	£97,390	N/A	£5,768	20	16.9	1.6%	2012	Complete – energy price inflation may result in the reduction of the payback period

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
6	Install 50kW(p) PV at John Warner Sports Centre	Head of Environmental Health	£97,390	N/A	£13,379	20	7.3	1.6%	2012	Complete – energy price inflation may result in the reduction of the payback period
7	Use half hourly data as analytical tool	Corporate Project Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended pending the evaluation of project 12
8	Switch off all appropriate streetlights on the Bishops' College complex at night in line with the County Council guidelines	Bishops' College Facilities Manager	N/A	£905	£398.32	1.2	2.3	0.1%	2012/13	Complete
	Occupancy sensors for internal lighting are currently being investigated		£4,500	N/A	£773 estimated	2.4	5.8	0.2%	Paper to be drafted for approval this financial year	
9	Reduce office target heating by 1°C at the Bishops' College complex	Bishops' College Facilities Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	This was done but any saving was offset by the number of heating hours being increased due to the cold winter. The use of portable electric fans also increased.

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
10	Switch off computers and office equipment, including: set all physical computers to shut down if still on after working hours; set all thin client computers to go into standby after set idle time; set all monitors to go into standby after 15 minutes of idle time; when procuring IT equipment, purchase more energy efficient printers with a standby mode and a timer to turn off automatically outside of office hours, and replace multiple printers and photocopiers with one machine	Infrastructure Manager	£100	N/A	£335	1	0.3	0.08%	2014/15	Some monitors and printers automatically switch off if idle.
11	Draw up more detailed energy policy	Corporate Project Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended as potential energy savings are reflected in this action plan

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
12	Introduce monitoring and targeting system: develop energy monitoring software to track trends in consumption and to identify anomalies promptly	Leisure Client and Projects Manager / ICT	N/A	N/A	N/A	N/A	N/A	N/A	This is determined by the prioritisation of ICT related projects.	Ongoing
13	Launch a staff energy awareness campaign (increase staff awareness of good housekeeping principles e.g. turning off monitors, lights, closing windows etc)	Corporate Project Manager	N/A	N/A	N/A	N/A	N/A	N/A	2013/14 and 2014/15	Ongoing
14	Improve the insulation in the boiler plant rooms at Grundy Park Leisure Centre and John Warner Sports Centre	Maintenance Manager	N/A	£2,800	£3,046	23.6	0.9	1.9%	GPLC by March 2014, seeking funds for JWSC	Ongoing
15	Improve the controls on the manually operated air conditioning at Grundy Park Leisure Centre and John Warner Sports Centre	Maintenance Manager	N/A	£4,000	£3,753	24.5	1.1	2%	GPLC by March 2014, seeking funds for JWSC	Ongoing

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
16	Improve energy management procedures in leisure centres	Leisure Client and Projects Manager	N/A	N/A	N/A	N/A	N/A	N/A	2013/14	Ongoing
17	Awareness training (energy champions)	Corporate Project Manager	N/A	N/A	N/A	N/A	N/A	N/A	2014/15	Under review on how to develop further.
18	Monomolecular pool covers at Grundy Park Leisure Centre and John Warner Sports Centre	Leisure Client and Projects Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	As part of the refurbishment project at GPLC, a new manual pool cover has been procured. Further investigation is required for this project.
19	Pool hall air handling units automatic control	Maintenance Manager	£10,000	N/A	£6,180	40.3	1.6	3.3%	2013/14	Completed
20	Improve the circulation of pool pump speeds by using variable speed drive controllers at Grundy Park Leisure Centre and John Warner Sports Centre	Maintenance Manager	£18,441 at JWSC. TBC - GPLC	N/A	£5,331	16.3	3.5	1.3%	March 2014	Ongoing
21	Consider installing voltage optimisation units at Grundy Park Leisure Centre	Maintenance Manager	£30,000	N/A	£7,428	22.7	4	1.9%	N/A	Not being explored at the moment

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of CO ₂ target	Implementation year	Update
			Capital	Revenue	Financial (gross)	tCO ₂				
22	Consider installing voltage optimisation units at John Warner Sports Centre	Maintenance Manager	£23,000	N/A	£5,792	17.7	4	1.5%	N/A	Not being explored at the moment
23	Install an effective automatic metering, monitoring and targeting system.	Corporate Project Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended pending the evaluation of project 12
24	Investigate the practicalities of installing a biomass boiler at Grundy Park Leisure Centre	Leisure Client and Projects Manager	£143,000	N/A	£37,000	113.2	3.9	9.3%	N/A	Surveys have been undertaken by Climate Consulting and the options are currently being assessed
25	Train all drivers in smarter driving	Head of Personnel	£256	N/A	£5,936	10.6	0.04	0.9%	2012	Complete
26	Destratification fans to swimming pool areas	Maintenance Manager	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended as the project is not feasible.
27	Use 30% biodiesel for freighter fleet (180,000 litres)	Head of Broxbourne Services	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended as the cost is prohibitive.
28	Install solar thermal panels at Grundy Park Leisure Centre	Head of Environmental Health	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Suspended as the preferred option is to investigate the practicalities of installing a biomass boiler instead

Additional carbon management projects

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of target	Implementation year
			Capital	Revenue	Financial (gross)	tCO ₂			
29	Investigate the practicalities of installing a combined heat and power facility at John Warner Sports Centre	Leisure Client and Projects Manager	£145,000	N/A	£16,000	48.9	9.1	4%	Options are being considered for the outright purchase of a combined heat and power facility.
30	Replace the sand back wash filter media for the swimming pool at John Warner Sports Centre	Maintenance Manager	£19,000	N/A	£2,081	14.7	9.1	1.2%	Completed
31	Install further LED light fittings at the Bishops' College complex (Council Chamber perimeter lighting, Beaufort Suite, Old Building wall lights and New Building toilet lights)	Bishops' College Facilities Manager	N/A	£6,300	£1,435 estimated based on 60 hours lighting per week.	4.4	4.4	0.4%	Ongoing until March 2015 subject to each scheme being approved
32	Introduce part night lighting in all Council owned car parks (not lit between midnight and 6am): <ul style="list-style-type: none"> ○ Cheshunt and Goffs Oak ○ Waltham Cross ○ Hoddesdon 	Community Safety / Town Centre Manager	<ul style="list-style-type: none"> ○ £4,426 ○ £3,308 ○ TBC 	N/A	£1,343	Equivalent to 8,600 hours of energy saving	5.8	N/A	<ul style="list-style-type: none"> ○ Aug 13 ○ Sept 13 ○ Early 2014

No	Project	Lead	Cost of project		Annual savings (yr 1)		Pay back (yrs)	% of target	Implementation year
			Capital	Revenue	Financial (gross)	tCO ₂			
33	Roll out the installation of motion detection systems to control the floodlighting at the network of kickabout courts	Maintenance Manager	£4,000	N/A	N/A	N/A	N/A	N/A	March 2014

Sustainability actions

Theme	Aim	No	Actions	Cost of project	Timeframe	Lead officer(s)
Corporate	Demonstrate political commitment to acting on climate change	34	Sign the Local Government Association's Climate Local Agreement	Zero	October 13	Corporate Project Manager
	Embed climate change and the associated risks and opportunities into the Council's policies and business planning processes	35	Factor the changing climate into the Council's risk registers, identifying service related risks and mitigation	Zero	December 13	Treasury, Insurance and Risk Manager; Corporate Project Manager
		36	Incorporate sustainability issues in the emerging economic development strategy and action plan	Zero	Jan 2014	Head of Economic Development
	Make prudent and effective use of resources	37	Review the procurement of utilities to ensure that the very best value for money contracts are being secured	Zero	Ongoing	Lead for Corporate Projects and Community Planning
		38	Audit the current controls in place concerning the payment of utilities to check that the Council is only paying for services it uses, is paying the correct tariffs, is paying actuals not estimates, and that payments are made at regular intervals to ensure that the monitoring of usage is performance managed giving early indication of spikes (leaks) etc.	Zero	To be agreed and added to the audit plan	Audit section
Energy	Monitor energy consumption	39	Monitor energy consumption at Council buildings to track trends and unexpected increases.	Zero	Monthly or quarterly	Facility managers
		40	Report the annual energy consumption figures at Council sites to the Scrutiny Committee	Zero	July each year	Corporate Project Manager
		41	Report emissions data for the Council's estate and services to the Department of Energy and Climate Change and publish on the Council's website	Zero	July each year	Corporate Project Manager
		42	Investigate the practicalities of installing additional meters at the Council's depot to improve the recording of energy consumption for the individual users at the site	Cost to be determined	March 2014	Head of Property Services
		43	Expand the formalisation of monitoring meters, where possible, to include the Council's smaller leisure sites	Zero	March 2014	Leisure Client and Projects Manager

Theme	Aim	No	Actions	Cost of project	Timeframe	Lead officer(s)
		44	Install check meters to better analyse energy consumption at Grundy Park Leisure Centre and John Warner Sports Centre	Cost to be determined	GPLC by March 2014, JWSC when funds allow	Maintenance Manager
	Reduce energy consumption and carbon emissions across the Council's estate and services	45	Periodically investigate the business case for the installation of clean energy technologies at Council buildings, including photovoltaic panels and combined heat and power facilities	Bid for capital funds as required	As required	Leisure Client and Projects Manager; Corporate Project Manager
		46	Include energy saving measures as part of section and departmental annual business plans.	Bid for capital funds as required	Annually	Senior management
	Improve the fuel efficiency of the Council's fleet	47	Consider the possibility of the use of electric or hybrid vehicles in the Council fleet when existing vehicles need to be replaced	Bid for capital funds as required	As appropriate	Treasury, Insurance and Risk Manager; Head of Broxbourne Services
	Promote community action to reduce energy consumption and carbon emissions in the Borough	48	Undertake a comprehensive energy efficiency communications campaign, focusing on encouraging the further take up of loft insulations and cavity wall insulations, as there is still a significant proportion of the housing stock in the Borough without the preferred energy efficiency standards. This will include the promotion of: the Green Deal and Energy Company Obligation; Stay Warm, Stay Well initiative, in partnership with Hertfordshire County Council; and Energy Saving Trust's website and telephone advice service.	Utilise existing budgets	2013/14 to 2026/27 – to be reviewed on an annual basis	Corporate Project Manager
		49	Seek to implement a Local Development Order(s) for areas such as the Borough's business parks to mean that commercial premises do not need planning permission to install solar panels (this brings them into line with householders who already do not require permission)	Zero	2014+	Head of Planning; Planning Policy Manager
	Encourage energy efficiency as part of new development schemes	50	Update the Broxbourne Local Plan to include Building for Life criteria and more stringent energy efficiency requirements.	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager

Theme	Aim	No	Actions	Cost of project	Timeframe	Lead officer(s)
		51	Use planning policy to encourage district heating schemes, as the Borough is ideally situated for such an initiative, due to the close proximity of industry with other land uses.	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager
		52	Adopt planning policies that actively encourage renewable and decentralised energy generation, both large scale and small scale (e.g. on site renewable energy requirements for new build).	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager
Water	Monitor water consumption	53	Monitor water consumption at Council buildings to track trends and unexpected increases.	Zero	Monthly or quarterly	Facility managers
		54	Report the annual water consumption figures at Council sites to the Scrutiny Committee	Zero	July each year	Corporate Project Manager
	Undertake actions to reduce water consumption	55	Determine additional locations for bore hole extraction (20m ³ per day free) to reduce water dependency and usage	Cost to be determined	To be determined	Environmental Manager
		56	Extract 20m ³ of water per day from the bore holes at Cedars Park and Cheshunt Park during the summer months and use elsewhere in the Borough to reduce water consumption	Cost to be determined	Summer months each year	Environmental Manager
Waste	Reduce the amount of waste produced in the Borough and encourage residents to recycle more	57	Determine the most efficient recycling and waste service for the future	Cost implications to be determined	During 2014	Head of Broxbourne Services
		58	Improve the Borough's 2012/13 recycling rate of 39.7% (taking into account contamination the 2012/13 recycling rate was 36.5%)	Utilise existing budgets	Ongoing	Waste Management Officer
		59	Encourage residents to compost their green waste	Utilise existing budgets	Ongoing	Waste Management Officer
Biodiversity	Protect, conserve and improve the Borough's biodiversity	60	Install plants with reduced moisture requirements in the Council's parks.	Utilise existing budgets	Annual	Environmental Manager
		61	Encourage appropriate measures to improve habitats, such as installing bird and bat boxes	Utilise existing budgets	Ongoing	Environmental Manager
		62	Encourage volunteering to support the creation and management of habitats	Utilise existing budgets	Ongoing	Environmental Manager
		63	Apply mulch to planted areas in the winter months to retain moisture and reduce competition	Utilise existing budgets	Annual	Environmental Manager
Transport	Promote sustainable travel, such as walking and cycling	64	Update the Local Plan to encourage development close to the Borough's town centres and railway stations to reduce residents' need to own a car	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager

Theme	Aim	No	Actions	Cost of project	Timeframe	Lead officer(s)
		65	Produce a Development Management Policies Document to include an 'accessibility corridor', which includes bus stops, railway stations, town centres and local facilities such as doctor surgeries, to permit fewer car parking spaces as part of developments in this area	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager
		66	Work with developers to agree sustainable transport measures and financial contributions towards them through the planning application process on major schemes	Zero	Ongoing	Head of Planning; Planning Policy Manager
		67	Work with Hertfordshire County Council to implement sustainable transport schemes within the Hertfordshire Local Transport Plan and the Urban Transport Plans for Waltham Cross/Cheshunt and Hoddesdon/Broxbourne	Zero	Ongoing	Head of Planning; Planning Policy Manager
		68	Work with Transport for London and Network Rail to achieve maximum benefits for the Borough from the long term West Anglia mainline widening and Crossrail 2.	Zero	2030s	Head of Planning; Planning Policy Manager
	Reduce car journeys by Council staff, both to and from work and for work	69	Finalise and implement a green travel plan for Council employees	To be determined	To be scoped	Head of Personnel
		70	Extend the homeworking pilot	To be determined	To be scoped	Head of Personnel
Design	Embed sustainable design into the construction of buildings	71	Design and construct the Broxbourne Enterprise Centre using sustainable design practices, including maximising energy and water efficiencies	£4 million project	Completion during 2015	Head of Economic Development
		72	Introduce Validation Lists to set out the information that applicants should provide in planning applications so overall sustainability objectives can be achieved.	Zero	Early 2014	Head of Planning; Planning Policy Manager
		73	Update the Local Plan to include Building for Life criteria, Lifetime Home standards, Hertfordshire Building Futures guidance, Code for Sustainable Homes standard and Building Research Establishment rating.	Zero	Adopted early 2015	Head of Planning; Planning Policy Manager
Business	Encourage local businesses to embed sustainability into their business processes	74	Champion and promote energy efficiency, water efficiency, waste management, biodiversity and sustainable transport measures with local businesses through the Chamber of Commerce and Broxbourne Business Charter	Zero	April 2014 onwards	Head of Economic Development
Resilience	Adopt measures to adapt to climate change	75	Work with Hertfordshire County Council and the Environment Agency to improve drainage and reduce flooding	Zero	Ongoing	Head of Projects; Head of Planning

Theme	Aim	No	Actions	Cost of project	Timeframe	Lead officer(s)
Air quality	Improve air quality	76	Maintain the annual tree planting programme	Utilise existing budgets	Annual	Environmental Manager
		77	Ensure that the Council, along with its partners, deliver their commitments in relation to Local Air Quality Management Areas	Utilise existing budgets	Annual	Head of Environmental Health
Food production	Encourage sustainable food production	78	Maintain a sufficient level of allotment sites for residents of the Borough to grow their own food and reduce the carbon footprint of their consumption.	Utilise existing budgets	Ongoing	Environmental Manager