

Action Plan

Outcome	Objective	Action	Target / Milestone	Lead Officer	Key Partners	Timescale	Resources
Reduce carbon emissions of council activity (excluding schools)	The Council will lead by example and promote best practice.	Incorporate energy efficiency measure to the Accommodation Strategy so that all Council refurbishments are energy efficient.		Andy Bere, Ian Lane			<ul style="list-style-type: none"> Officer time £ for buildings Funding (unknown)
		Implement the Carbon Management Programme.	Reduce emissions by 20% by 2009.	Ian Lane			<ul style="list-style-type: none"> Officer time £250,000 Council £250,000 Salix £333,00 revenue account for Building Energy Management Systems
		Report on Performance Indicator 185.	Target to be set end July 2009	Joe Baker		End of July each year.	<ul style="list-style-type: none"> Officer time Officer input from a number of departments
		Conduct Display Energy Certificates (DECs) for Council buildings, (required for buildings with a total useful floor area over 1,000m ² that are occupied by a public authority)	First Certificates by 1 st October 2008.	Andy Bere Outsourced: Tribal & Information Profits Ltd cover 21 buildings.		DECs to be produced annually & Advisory reports last for 7 years.	<ul style="list-style-type: none"> Officer time. Total cost for 21 Buildings & Advisory Reports: £28,960
		The Council will seek to install CHP and renewable energy technologies					

		whenever it is refurbishing its buildings and definitely when upgrading heating systems.					
		Install at least one large scale wind turbine in the borough which supplies electricity directly to council offices.		Francesca Feller			<ul style="list-style-type: none"> • Officer time • Seek funding (unknown)
		Reduce carbon dioxide emissions from vehicle use, by training all drivers of Council owned vehicles and all essential car users on how to reduce fuel consumption.		Ruth Du Lieu			<ul style="list-style-type: none"> •
		Reduce carbon dioxide emissions from vehicle use, by procuring the most energy efficient commercially available vehicles for the new Council fleet contract.		Ruth Du Lieu			<ul style="list-style-type: none"> •
		Produce a Staff Travel Plan in relation to its employees travel requirements in order to minimise private vehicle use and to maximise public transport, cycle use and car sharing.		David Higham			<ul style="list-style-type: none"> • Officer time •
		Encourage home working across the council. Investigate best practice on home working.					<ul style="list-style-type: none"> •
		Reduce energy consumption installing renewably powered street furniture (including street lighting, solar bus shelters, street signs and parking ticket machines) where it is feasible.					<ul style="list-style-type: none"> •
		Reduce energy consumption by developing a programme to replace old light fittings responsible for street lights staying on during the day.					<ul style="list-style-type: none"> •

Reduce carbon emissions of the borough's schools	The Council will promote energy efficiency to the borough's schools.	Develop an action plan to work with the borough's schools to improve their energy efficiency and reduce CO ₂ emissions.		Andy Carr (School Assets)			
		Encourage pupils to cycle and walk to school, through appropriate projects.		Gloria Mills (Transport)			• Officer time
		Conduct Display Energy Certificates for Council buildings, (required for buildings with a total useful floor area over 1,000m ² that are occupied by an institution)	First Certificates by 1 st October 2008.	Steve Benning (School Assets)		DECs to be produced annually & Advisory reports last for 7 years.	• Officer time • Outsourced to I Profits • Total cost for 16 schools: £8544
		Promote waste minimisation issues, recycling and composting as part of education curriculum.					•
Reduce carbon emissions of the borough's existing homes		Report on Performance Indicator 186					• Officer time
		Continue to use grant funding to deliver energy efficiency improvements (Warm Front for Council tenants and Warm Zones for privately-owned homes).	All council-owned properties to be insulated by: ??	Privately owned properties: Joanne Smith, Council tenants: Peter Griffin	Energy companies		• Officer time x 2
		Establish an Energy Centre for the borough to facilitate and promote energy efficiency measures throughout the borough's housing.					• Officer time • (Ian for info.)

		Continue to implement Decent Homes standard to all council housing. (reduce the carbon emissions of existing council owned housing through energy efficiency and renewable energy improvements above and beyond the minimum requirements of Decent Homes by achieving an average SAP rating of 84 across all properties by 2012 (Woking).)	All council housing to have DH by 2016.	Tony Wiggins		Set yearly targets?	Cost of programme?
		The Council will assess different approaches (leaflet, website, events and Planning Advice Notes) to promoting energy efficiency advice and micro-renewable technology to residents, including advice on grants.		Climate Change Team			<ul style="list-style-type: none"> • Officer time
Reduce carbon emissions of the borough's new homes/buildings	The Council will ensure that developers aim for high energy performance.	Continue to work with our Housing Association partners to develop flagship low carbon social housing that achieves a higher sustainability standard than the standard Eco-Homes 'Good' rating required by the Housing Corporation.		Planning Policy LDF / DC to enforce this	Housing Association partners		<ul style="list-style-type: none"> • Officer time
		The Council will continue to use its planning powers to ensure that new developments restrict car parking spaces and provide adequate cycling facilities and access to public transport, as well as helping minimise commuter distances through encouraging mixed residential and business areas.					<ul style="list-style-type: none"> •
		Encourage developers to establish, and participate in, combined heat and power and community heating schemes.					<ul style="list-style-type: none"> •

		The Council will implement its planning policy to promote renewable energy within new developments and refurbishments. This is an on-site renewables target of 20% saving in carbon emissions. There is a separate on-site Renewables Target for Barking Riverside, Barking Town Centre and South Dagenham, which is on-site electricity producing renewable of 10% saving in carbon emissions.					•
		Continue to promote and follow the Mayor of London's heating hierarchy.					•
Reduce carbon emissions from the borough's businesses	The Council will work with local businesses to deliver this.	Continue to work with the LDA and other partners to deliver the objectives of the Dagenham Dock Sustainable Industrial Park.		David Harley			• Officer time
		Produce an information pack on Combined Heat and Power (CHP) for developers.		Climate Change Team			• Officer time
		Encourage businesses to install energy efficiency measures and renewable energy to achieve reductions in energy consumption.		Climate Change Team / Economic Development			
		Promote awards and standards such as the Green Mark Award.		Climate Change Team / Economic Development			

		The Council will use its planning powers to encourage high energy efficiency standards, CHP and renewable energy in all new commercial and industrial premises.		Development Control			
		Help businesses to develop Green Travel Plans, including encouraging employers to provide cycling facilities.					
		Encourage the boroughs top business group networks to actively consider car clubs as a sustainable alternative.					
		Encourage and promote the idea of home working across the borough's business.					
		Promote renewable energy initiatives and grants such as the Solar for London scheme that help businesses to install renewable energy technologies.					
		Support and advice businesses on effective waste reduction and management.					
		Work with businesses to promote sustainable procurement.					
	Local businesses will:	Work towards high environmental standards and sign up to award schemes such as the Green Mark Award.					
		Develop an Action Energy plan to take advantage of cost effective energy efficiency measures.					
		When rebuilding or refurbishing premises we will consider using high energy efficiency standards, CHP and renewable energy.					
Reduce road traffic	Promote	Continue to introduce measures aimed				Thames	

growth across the borough.	alternatives to motorised vehicles.	at reducing growth in road traffic through its Local Implementation Plan.				Gateway London Partners (TGLP) Travel Plan Co-ordinator.	
		Work with partners to improve the integration and usability of public transport systems across the borough, e.g. identify structural and social barriers to the use of public transport and to find ways to overcome these barriers.		Sanath		TfL	
		Continue to investigate and implement new 'green' travel programmes, such as the possibility of becoming a 'cycling demonstration town project' and implement Walking Corridors and Pedestrian Signing programme.		Nick Davies		TfL	
		Continue to promote measures that reduce air pollution, e.g. encouraging zero-emission vehicles, cycling and walking.		Environmental Sustainability Team/ Environmental Protection/Strategic Transport			
Low carbon regeneration and growth - substantially		Help deliver the Mayor of London's renewable energy technology targets for solar water heating, photovoltaics and wind turbines.					

<p>increase local power generation, renewable energy and combined heat and power systems.</p>		<p>Work with the LDA, developers and the local electricity network operator to develop a Registered Power Zone to ensure the development of a dynamic local network that facilitates local power generation from CHP and renewable energy.</p> <p>Promote energy supply companies that offer two-way metering and purchase locally generated electricity at a fair & competitive price.</p> <p>Establish an ESCo in Barking and Dagenham to take forward high profile low carbon projects in the borough.</p> <p>Continue to work to make the growth and regeneration of the borough low carbon, and reach the set 'carbon targets' for the borough's key regeneration sites, including Barking Town Centre.</p> <p>The Council will continue to drive forward in implementing the district heating network in Barking Town Centre.</p> <p>Establish a Low Carbon Zone as an extension to the Energy Action Area.</p>					
<p>Reduce associated greenhouse emissions from waste management.</p>	<p>Increasing waste minimisation, recycling, composting and recovery targets.</p>	<p>Continue to extend recycling facilities and schemes across the borough.</p> <p>Investigate the possibility of making Barking and Dagenham plastic-bag free.</p> <p>Promote home composting.</p> <p>Assess the feasibility and sustainability of establishing kitchen waste collections across the borough.</p>					

		<p>Aim to achieve an average zero waste growth per head of population by 2010, and seek to de-couple waste growth from economic growth, with total municipal waste arisings growing only in line with increased population.</p> <p>The council will continue to conduct the annual School's Environmental Quiz.</p> <p>Encourage residents to change their purchasing and consuming habits and encourage recycling and composting.</p> <p>The Council will investigate the possibility of setting up an online exchange forum ('Swap Shop'), where residents can exchange unwanted items for free.</p> <p>The Council will monitor waste arisings and composition in order to inform waste minimisation schemes and future targets and support options.</p>					
To reduce the Council's impact on climate change through sustainable procurement.		<p>Continue to follow the Mayor's Green Procurement programme, which includes conducting an audit of the Council's procurement.</p> <p>Promote sustainable procurement and green suppliers to council staff.</p> <p>The Council will adopt a standard or target, showing what you will and will not buy; and the techniques to be used (such as whole life costing).</p> <p>Continue to promote the Council's e-Learning course on sustainable procurement, which serves to enable</p>					

		officers to procure sustainably.					
Reduce the risks and exploit the opportunities of climate change in the borough.	Uptake of adaptation measures in the public sector, business, transport and homes.	<p>Conduct a risk assessment using available data, from UKCIP08 and the Barking and Dagenham Strategic Flood Risk Assessment (SFRA), to identify if their service and buildings are at high risk from climate change.</p> <p>Report on NI 188 (this is scored from 0-4)</p>		All departments and stakeholders.			
Ensure that Council assets are prepared for the risk of climate change.	Incorporate measures so that the Council can manage climate change risks and ensure service delivery at times of extreme weather events.	<p>Assess the flood risk to all Council buildings using the Strategic Flood Risk Assessment (SFRA).</p> <p>Consider implementing measure to reduce flood damage into those buildings that are at medium or high risk of flooding.</p> <p>All future new builds and refurbishments of council buildings will have green roofs and green walls, on buildings as well as permeable surfaces on council-owned car parks.</p> <p>Relocate flood sensitive IT equipment and archives away from high flood risk areas, e.g. no valuable assets to be stored in basements.</p> <p>Install rainwater harvesting, grey water recycling systems and water-efficient devices to all its new buildings and refurbishment projects.</p> <p>Incorporate measures into all new builds and refurbishments of Council buildings, with the aim of decreasing the risk of overheating, without the use of mechanically-powered air-conditioning.</p>		Council assets			

		Investigate the possibility of providing 'cool' centres (cooled public buildings) during heatwaves, with extended opening hours.					
New developments will not increase the risk of climate change impacts.	Enforce planning powers.	The Council will apply the Planning Policy Statement (PPS) 25 on Flood Risk risk-based Sequential Test and Exception Test at all stages of planning, where appropriate, in order to steer new development to areas at the lowest probability of flooding, where possible.		Planning policy			
		Encourage developers to use measures to reduce storm water run-off and pressure on surface water sewers by requiring the use of sustainable drainage systems (SuDS) and green roofs.					
		The Council will promote designing out flood risk in buildings with the new PAN: Flood Risk Mitigation and workshops/presentations to design teams and developers.					
		The Council will use its planning powers to require at a minimum, no net increase in runoff when re-developing in high flood risk areas, as identified by the SFRA, with the aim of reducing runoff.					
		The Council will use its planning power to require that drainage systems in new developments have the capacity to cope with heavier rainfall events expected over their lifetimes, taking account of climate change.					
		The Council will use its planning powers to require best practice in water efficiency for all new developments and					

		<p>major refurbishment projects, according to the Code for Sustainable Homes standards . This requires at minimum Code Levels 3 and 4, this is equivalent to or less than 90 litres/person/day.</p> <p>The council will use its planning powers to recommend rainwater harvesting and greywater recycling, where appropriate, in all new developments.</p> <p>When advising developers, the Council will discourage the installation of power showers, since these are largely offsetting water savings made by the introduction of more efficient appliances, such as low-flow toilets.</p> <p>The Council will guide developers to design buildings that provide a comfortable internal environment, using natural ventilation and low carbon cooling techniques, using Planning Advice Note 5.</p> <p>The Council will guide developers to ensure that new developments reduce the impact on the Urban Heat Island effect through appropriate design and construction, for example by increasing the amount of green spaces surrounding developments.</p> <p>Investigate techniques to reduce the Urban Heat island effect, for example, using 'cool' pavements.</p>					
Ensure that all housing can cope with the risks of climate change.	Incorporate measures to reduce climate change risk in	The Council will as part of its refurbishment of council owned housing investigate the feasibility of implementing measures to reduce flood		Housing			

	homes.	<p>risk/damage, overheating and reduce water demand.</p> <p>The Council will encourage residents of privately owned housing to lessen the risk of climate change.</p> <p>The Council will investigate ways of decreasing residents water use, for example, working with Essex and Suffolk Water to investigate ways of increasing the installation of water meters and water saving devices into homes.</p>					
Prepared for extreme weather events, including large-scale flooding, and prolonged heatwaves.	The Council will ensure that it can react well in the event of large-scale flooding.	<p>Continue to incorporate changing flood risk and recovery into emergency plans. Continue to work with emergency services to ensure a co-ordinated response is mounted in the event of flooding.</p> <p>The Council will ensure that there are planned routes for evacuation and for emergency vehicles to have secure access in the event of a flood, in all new (and existing) developments.</p> <p>The Council will engage discussions with Essex and Suffolk Water to discuss contingency planning to ensure that vital functions across the borough have reliable water supply in times of extreme drought.</p> <p>Integrate heat risk management measures into emergency plans.</p>		Emergency Planning/ Planning			
	The Council will work with its	Review the management regimes for drains.		Drainage Maintena			

	partners to ensure that all drains and gullies under the Councils control are suitably maintained and cleared to lessen the risk of surface flooding.	Review current arrangements for surface water drainage between Thames Water Utilities and the council to identify whether any action is required in the light of climate change risks.		nce			
	The Council will aim to ensure that all roads/pathways under the Councils control can cope with changing weather patterns.	Aim to flood-proof or re-site strategically important roads (i.e. roads needed for emergency evacuation) that are in high flood areas, according to the SFRA. Consider incorporating the widespread use of SUDS.		Highway s Maintena nce			
	The Council will aim to identify suitable areas that are climate friendly.	Identify open spaces (that can be used for additional temporary flood water storage at times of flood). Identify areas where shade is deficient and increase shade by planting trees and vegetation in these areas.		Parks/Pla nning			
Lessen water usage across its parks and open spaces.		The Council will consider designing and installing drought-resistant landscaping schemes and 'low water gardens' in all its open spaces. The Council will aim to install rainwater harvesting in its gardens, parks and open spaces and use the captured water for irrigation and washing council fleet.		Ground Maintena nce			
all 'vulnerable' residents of the borough are protected and cared for during		Identify the most 'vulnerable' residents in the borough, in terms of heat stress. Produce guidelines on how to reduce and deal with the effects of heat stress and the appropriate care of 'vulnerable'		Adult services		PCT	

times of extreme and prolonged heat waves.		individuals during heatwaves.					
		During times of extreme and prolonged heatwaves 'vulnerable' residents will need to be visited, for example by those providing meals on wheels. Training will be provided to help identify, manage and advise on heat stress risks for the most 'vulnerable'.					
surrounding environmental health are addressed during times of extreme and prolonged heatwaves.		The population of disease-bearing vermin and pests need to be monitored in the face of rising temperatures and resource requirements to manage them must be regularly reviewed.		Environmental Health			
		Produce guidelines for owners of food premises advising of the increased risk of food poisoning in the face of rising temperatures.					
The Council will work with the boroughs training and education providers to investigate the possibility of providing training concerning installing these measures discussed in this strategy to buildings.		The council will investigate the possibility of introducing accredited training courses, to enhance skills and knowledge for the construction industry regarding the environmental considerations of this work.					
promote this Climate Change Strategy to all		The council will undertake a co-ordinated and sustained awareness-raising campaign aimed at local					

<p>departments and stakeholders and ensure the Strategy is implemented through planning policy and all other Council activities.</p>	<p>businesses, property developers and residents regarding adaptation measures.</p>					
	<p>Research and advice surrounding how to tackle climate change is continually changing, therefore the Council will continually research and review this strategy and the advice provided.</p>					
	<p>The Council will establish an Adaptation to Climate Change Steering Group to oversee the implementation of the Climate Change Strategy. The Council will restart the Energy Strategy Steering Group to also help oversee the implementation of the Climate Change Strategy. Or amalgamate them?</p>					
	<p>Report on NI 185, 186 & 188.</p>					
	<p>The Council will investigate the possibility of setting up a Barking and Dagenham Climate Change Partnership, to help reduce CO2 emissions across the borough and to help the borough adapt to climate change.</p>					