

# Tackling Climate Change and Improving Energy Efficiency

## Havering Council's 3-year Action Plan

2014/15 – 2016/17



### 1. Background

Tackling climate change and improving energy efficiency are priorities for Havering Council. Previously national government played a strong role in driving local authorities to reduce their carbon emissions. Under the current government policy shift towards less intervention by central government and 'localism', Havering Council believes there are still compelling local benefits to justify continuing its efforts on reducing energy use – improving efficiency, reducing waste and unnecessary costs and supporting our residents as fuel costs rise. Energy costs continue to increase, leading to rising expenditure for the Council which we have the ability to reduce. Investment in energy efficiency now helps reduce our future annual costs, and reducing waste of energy makes us a more efficient council.

As a Council we believe we have a role in helping residents lower their energy costs, particularly residents who are struggling to afford to heat their homes. More people will struggle as energy prices rise, which will result in greater pressure on other areas (e.g. health care, social services, financial inclusion). As the climate changes, the Council also has a responsibility to improve the borough's ability to deal with the anticipated weather impacts (i.e. drier summers, higher severe flooding incidences, severe winter weather spells).

Havering has successfully made efforts to reduce its energy use and carbon footprint. This three-year action plan builds on the activities achieved and established from the Council's previous Climate Change Action Plan from 2009 to 2012. Some of the key achievements since 2009 have been:

- Generating £1,059,000 cumulative savings from energy efficiency projects since 2009
- Bringing in £4.5million in grants for heating and insulation measures for Havering residents since 2010
- Transforming streetlighting and office lighting in Havering to LEDs, reducing energy use by 60-75%.
- Trialling a 30% biofuels mix, electric & hybrid vehicles and piloting a staff car pool scheme.
- Upholding standards of energy efficiency in new development and refurbishment

- Five Council buildings and seven schools benefitting from renewable energy
- Undertaken a Local Climate Impacts Profile to identify key climate risks in Havering

The past three years of delivering the Climate Change Action Plan has shown us the need to combine capital measures with management activities in order to generate the greatest energy savings. The Council will continue this approach in the next three-year Action Plan, delivering capital measures which will increase energy efficiency and ensuring effective management and improving energy saving behaviour to maximise reductions.

We recognise the need to continue to reduce the Council's energy use and ensure the borough's overall energy consumption reduces, for the benefit of our residents, value for local taxpayers and to reduce our impact on the environment. This update of the Climate Change Action Plan will guide Havering Council's continued efforts for the next three year period from 2014 to 2017.

## 2. Links to current climate change policy

### *National policy*

The Climate Change Act (2008) puts into statute the UK's targets to reduce CO2 emissions through domestic and international action by 80% by 2050. Five-year carbon budgets set binding limits on carbon dioxide emissions. The first four carbon budgets have been set in law, covering the period from 2008 to 2027. The government's Carbon Plan sets out its policies and proposals for meeting the target to 2027. The Act requires government to report the UK's emissions annually and has established the Committee on Climate Change, an independent statutory body, to advise and monitor progress on achieving the carbon budgets.

The Energy Act (2013) establishes a legislative framework for delivering secure, affordable and low carbon energy and includes provisions on regulating energy tariffs for consumers, amendments to the Warm Homes and Energy Conservation Act to propose a new target for fuel poverty and changes to the Feed-in-tariffs for renewable energy. The Energy Act of 2011 sets out the framework for the Green Deal and Energy Company Obligations to provide funding and finance for residential energy efficiency measures.

In May 2012, the Committee on Climate Change, the independent statutory advisory body to government on climate change, published their report, *How local authorities can reduce emissions and manage climate risks*. The report emphasises the crucial role councils have in helping the UK meet its carbon targets and preparing for the impacts of climate change, and outlines specific opportunities for reducing emissions.

Building regulations contain the rules for building work in new and altered buildings to make them safe and accessible and limit waste and environmental damage, and are issued by the Department for Communities and Local Government (DCLG). Part L of Building Regulations stipulates requirements on the conservation of energy and power. DCLG is proposing that from 6 April 2014, new homes must reduce their carbon emissions by a further 6% across the build mix and that all new homes to be 'zero-carbon' from 2016.

The Carbon Reduction Commitment – Energy Efficiency Scheme (CRC) is a mandatory scheme aimed at improving energy efficiency and cutting emissions in large public and private sector organisations. Organisations which participate within the CRC are required to monitor their energy use, and report their energy supplies annually. Participants must then purchase and surrender allowances to offset their reported emissions.

The Department of Energy and Climate Change (DECC) requests local authorities to report annually on greenhouse gas emissions from their estate and own operations. The local authority submissions are collated and published collectively each year by DECC.

#### *Regional – London policy*

The Mayor's Climate Change Mitigation and Energy Strategy sets out the Mayor of London's plan for reducing London's contribution towards climate change and securing energy supply. It commits to achieving a 60% reduction in London's CO<sub>2</sub> by 2025, ensuring 25% of London's energy is delivered through more efficient decentralised energy by 2025, improving the energy efficiency of London's homes and buildings and reducing emissions from transport.

The Mayor's Climate Change Adaptation Strategy is the Mayor of London's plan to manage climate risks and improve resilience of London. This looks at the climate risks London faces currently and analyses how they are likely to change over the century as the climate changes. It then details the actions needed to help manage extreme weather today, particularly floods, drier weather and heatwaves, and the impacts of longer-term climate change in the future.

The Mayor's London Plan provides the economic, environmental, transport and social framework for development in London to 2031. It provides the overall strategic plan for London, and outlines the expectations the Mayor has for all development to contribute to the mitigation of climate change and helping London adapt to climate change impacts.

#### *Local – Havering Council policy*

This Climate Change Action Plan (2014-2017) succeeds Havering Council's Sustainable Energy Strategy (2006), Havering's Climate Change Strategy (2007-2010) and the previous Climate Change Action Plan (2009-2012). The Council's Fuel Poverty Strategy (2012) focuses on helping residents struggling with energy costs and facing fuel poverty. The Private Sector Housing Strategy (2014) identifies improving residential energy efficiency as one of the priorities for private housing in the borough. Havering Council's Local Development Framework (Core Strategy and Development Policies) identify sustainable design and construction as a key way to ensure new development minimises its energy consumption. Within the Council's Corporate Plan, greenhouse gases are reported on internally through the Corporate Performance Indicators, and are reported within the Council's public Annual Report.

### **3. Vision**

The vision is adopted from the 2009-2012 Climate Change Action Plan, which expresses the aspirations of Havering Council:

- A Council that is using energy efficiently, thereby cutting its energy costs and reducing its contribution to climate change.
- A Council that is applying best practice and implementing latest developments in energy and fuel efficiency and alternatives to achieve carbon reductions.
- A Borough in which residents, businesses, community partners and schools actively seeking ways to reduce their energy use.
- A Borough that is aware of the potential impacts of climate change and is prepared for its effects.

### **4. Overarching targets**

- a) To reduce Havering Council's own CO<sub>2</sub> emissions by 1% year on year.
- b) To reduce the borough's CO<sub>2</sub> emissions by 3% year on year, focusing efforts on reducing emissions in the domestic and transport sectors.
- c) To improve the borough's ability to deal with the impacts of climate change.

This trajectory is determined by performance over the previous three-year Action Plan and based on what the Council considers achievable over the next three year period.

## 5. Delivery

### *Areas of Action*

The Council will be working across Services and with partners to deliver actions to achieve these targets. These actions are outlined in this Action Plan and will focus on the Council's own emissions and efforts to reduce borough-wide emissions. The main achievements and policy drivers for each area are also outlined in each section of the Action Plan.

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| <p>Own emissions</p> <ul style="list-style-type: none"> <li>A. Corporate Estate</li> <li>B. Fleet transport and machinery</li> <li>C. Staff travel</li> <li>D. Schools</li> <li>E. Renewable &amp; low-carbon energy</li> </ul> | <p>Borough emissions</p> <ul style="list-style-type: none"> <li>F. Housing (including household energy use)</li> <li>G. Planning</li> <li>H. Regeneration</li> <li>I. Borough-wide transport</li> <li>J. Businesses and community partners</li> <li>K. Renewable &amp; decentralised energy</li> <li>L. Waste</li> </ul> |
| <p>Adaptation</p> <ul style="list-style-type: none"> <li>M. Council preparedness</li> <li>N. Borough-wide resilience</li> </ul>   |  |

### *Budget*

Budgets for delivery will be identified within existing resources or through external funding. Funding sources may include, but are not limited to:

- Salix funding streams
- Energy Company Obligation (ECO) and Green Deal
- Corporate invest-to-save
- Existing capital and revenue budgets

### *Monitoring*

Monitoring of delivery of the Action Plan and achievement of the targets will be through:

#### Own emissions

- CRC reporting
- Greenhouse Gas reporting
- Climate change invest-to-save and Salix project monitoring
- Corporate Performance reporting

#### Borough-wide emissions

- Local Authority carbon dioxide emissions, Emissions within the scope of influence of Local Authorities (Department of Energy & Climate Change)
- Reports from ECO & Green Deal partners

The Climate Change Strategic Working Group comprises Head of Services and senior staff in Services across the Council, and is co-chaired by the Director for Culture, Community & Economic Development and the Director for Resources. This group will meet quarterly and continue to provide direction and ensure delivery of the Climate Change Action Plan.

Progress on the Climate Change Action Plan will be reported regularly to the Environment Overview and Scrutiny Committee.

## A. Corporate Estate – energy efficiency

Through the previous Climate Change Action Plan, an invest-to-save fund was established for capital projects which would pay back savings from the energy costs for further investment. A £1million invest-to-save allocation was established, with further match funding of £250,000 acquired from Salix Finance.

Capital projects have included LED lighting upgrades in all main corporate offices, heating control measures and building management systems, major streetlighting LED schemes. Much of the ‘low-hanging fruit’ has been achieved, and the Council must now focus on larger investments and a wider number of Council buildings to generate further energy savings.

In addition to the capital projects delivered, the Council has undertaken energy surveys on all the Council’s major corporate buildings and leisure centres, installed smart meters and Automatic Meter Reading systems on major supplies, centralised temperature and heating controls and trialled a dashboard for building managers to monitor their energy use. Guidelines for Council refurbishment and new build projects have been developed to ensure high standards are maintained in Council schemes. The previous Climate Change Action Plan was launched with an awareness campaign and workshops at staff meetings across all Services.

### Capital measures for corporate buildings

|     | Action  | Lead  | 2013 status   | Target                                     | Budget source  |
|-----|---|---|---|--|--|
| a.1 | Continue with delivery of capital projects on invest-to-save basis to generate energy savings.<br><br>Explore larger schemes for main corporate buildings (e.g. heating and cooling systems). | Energy Strategy<br><br>Asset Management<br><br>All Services | Over £1million generated in cumulated savings through climate change invest-to-save projects.<br><br>Investigating Greater London Authority RE:FIT programme. | 1% reduction in CO2 emissions year on year | Existing capital invest-to-save<br><br>Existing Salix recycled fund<br><br>Climate Change revenue budget<br><br>Other external funding |

|     |  |                                      |  |   |                               |
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|     | Explore projects in other Council facilities (e.g. libraries, children's centres, social care centres, etc.)   |                                      |  |   | (e.g. RE:FIT)                 |
| a.2 | Undertake further energy surveys on Council and Housing buildings where there may be opportunities for additional energy reduction projects.   | Energy Strategy                      | Surveys undertaken in main corporate buildings and leisure centres.  | 3% reduction in CO2 emissions year on year                  | Climate Change revenue budget |
| a.3 | Investigate opportunity for generating water savings through a water meter audit and consolidation of water bills.   | Energy Strategy                      | Raised previously as an action through the Climate Change Strategic Working Group.   | Audit to be completed in 2014/15                            | Existing resources            |
| a.5 | Incorporate within contracts for management of facilities and service provision an element to encourage energy saving with contractors and benefit sharing from energy reductions where appropriate. | Energy Strategy<br>All Services      | Contract for management of leisure services due to be renegotiated in 2015/16. Capital measures invested partly repaid through amendments to contract. | N/A   | None required                 |
| a.6 | Identify opportunities to reduce landlords energy consumption in Housing-managed properties (e.g. hostels, sheltered   | Energy Strategy<br>Homes and Housing | Homes in Havering arms-length management organisation incorporated into Council in April 2013, including all energy                                    | 3% reduction in energy consumption from housing properties. | HRA Capital budget            |



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|     | accommodation, etc.).<br>Ring-fence savings for more energy efficiency measures.   |                   | supplies.                                     |  |                             |
| a.7 | Standardise low-energy specification in maintenance of housing-managed properties. | Homes and Housing | LED lighting specified for external lighting. | Specification to be approved in 2014/15. | Housing Maintenance budgets |

### Upholding standards in corporate refurbishments and new builds

|     | Action  | Lead                                    | 2013 status   | Target  | Budget source |
|-----|---|---|---|---|---------------|
| a.8 | Finalise refurbishment and new build standards for all Council projects, to set minimum standards of energy efficiency.<br><br>Ensure standards are included in project design specification across all Services. | Asset Management                        | Sustainable Construction Protocol and checklist revised, to be adopted in Climate Change Working Group and CMT. | Approved by March 2014, implemented thereafter. | None required |
| a.9 | Review Sustainable Construction Strategy annually to ensure it is kept up-to-date with the latest building regulations. The   | Energy Strategy<br><br>Asset Management |   | Completed annually                              | None required |

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|  | Corporate Asset Management Group to endorse changes. |  |  |  |  |
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### Improving corporate energy management

|      | Action  | Lead             | 2013 status  | Target                                       | Budget source   |
|------|---|------------------|--|--|---|
| a.10 | Continue centralised control of heating in corporate buildings, and maintain efficient levels of heating.                               | Asset Management | Software installed to enable centralised control of heating and temperature in Town Hall, Mercury House and Central Library.                       | To include all libraries by March 2015.      | None required<br>External funding sources (e.g. REFIT, Salix) |
| a.11 | Continue roll-out of smart meters and AMRs across Council and housing estate.   | Energy Strategy  | Corporate building gas meters and electricity meters underway. Housing landlord supplies programme underway. 85% of smart meter roll-out completed | Full completion of programme by June 2014    | Existing service budgets                                      |
| a.12 | Improve use and dissemination of monitoring and targeting (M&T) data and bill validation to end estimated billing and generate savings. | Energy Strategy  | Existing contract with TEAM Energy expires March 2014.   | To procure new M&T contract by October 2014. | Existing service budget                                       |
| a.13 | Investigate establishing energy dashboard for building managers to link with energy M&T reporting and monitor                           | Energy Strategy  | Pilot energy dashboard run with Matrix and two libraries from May-Aug 2013.  | To link with new M&T contract by March 2015. | Climate Change revenue budget                                 |

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|      | energy use.                                    |                   |  |               |               |
| a.14 | Align annual energy budgets with actual spend. | Corporate Finance | Initial investigation undertaken to review all Service energy spend and budgets. | By March 2015 | None required |

### Reducing staff energy use

|      | Action  | Lead             | 2013 status  | Target                           | Budget source            |
|------|---|------------------|--|----------------------------------|--------------------------|
| a.15 | Continue staff internal communications to get all staff to save energy. | Communications   | Publicity and posters developed for previous Climate Change Action Plan launch. Articles in Inside Havering. Responses to Staff Suggestions submitted by staff on energy saving measures.  | Run a focused campaign annually. | Existing service budget  |
| a.16 | Explore ways to further reduce energy consumption through ICT.          | Business Systems | Centralised procurement of ICT equipment to ensure high levels of energy efficiency.<br><br>All offices now using multi-functional devices, roll-out of thin-client computers, centralised purchasing for IT. Data centre amalgamation with Newham to reduce energy costs. Set up 'turn off your monitor message' across | N/A                              | Existing service budgets |

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|  |  |  | computer network. |  |  |
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### Reducing streetlighting energy costs

|      | Action   | Lead   | 2013 status   | Target  | Budget source  |
|------|--|--|---|---|--|
| a.17 | Implement large-scale LED streetlighting scheme for residential areas.   | Streetcare   | Trial undertaken of 170 lamps in 2013.                                  | 6000 sodium streetlights retrofitted with LED lamps by March 2015.<br><br>Further schemes delivered by March 2017.<br><br>40% reduction in streetlighting energy costs. | Salix loan scheme<br><br>Other external capital sources (e.g. London Energy Efficiency Fund) |
| a.18 | Specify LED or low-energy equivalents for all streetlighting replacement, public realm improvements and car park lighting schemes. | Streetcare<br><br>Transport Planning<br><br>Regeneration | Specification for TfL LIP managers for streetlighting energy standards. | Specification in place and used by March 2014.  | TfL LIP<br><br>Existing streetlighting capital budget  |
| a.19 | Investigate streetlight dimming as an option to  | Energy Strategy<br><br>Streetcare                        | Figures for potential energy savings calculated                         | To be investigated in 2015/16.  | None required  |

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|  | further reduce energy use. |  |  |  |  |
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## B. Fleet transport and machinery

Fleet transport and machinery accounts for 5% of the Council's greenhouse gas emissions. Reducing fuel consumption requires a combination of both acquiring new vehicles with more fuel-efficient technologies, and fleet management and efficient driving behaviour. The carbon footprint of the Council's fleet transport and machinery reduced by 3.5% from 2011/12 to 2012/13.

As an action under the previous Climate Change Action Plan, a 12-month trial was undertaken using 30% biodiesel blend for all fleet vehicles, however this caused challenges with warranties and engine problems so the Council's vehicles are now on a 7% blend. All vehicles purchased are to a Euro 5 standard. The Transport Team continually investigate hybrid and electric vehicles for the range of vehicles used across the Services, and have trialed several options. Three suitable electric vehicles have been purchased for Grounds Maintenance through funding from TfL, they have purchased electric plant machinery and several vehicles and street cleansing vehicles have been trialed for Streetcare. The Transport Team are in communications with the manufacturers to keep on top of latest developments in the market and to trial new vehicles, including Ford, Mercedes, Isuzu, Vauxhall, Honda, Daf, Scarab, VW and Renault.

A GPS tracker system was trialed in 2010/11 which had the ability to monitor live fuel consumption and CO2 emissions, and identify driver practices leading to high fuel consumption. The current vehicle monitoring system is being upgraded to allow for live fuel consumption reporting, to improve fuel-efficient driving.

### Improve efficiency of vehicles and machinery

|     | Action  | Lead      | 2013 status                  | Target                                  | Budget source    |
|-----|---|-----------|------------------------------|---|------------------|
| b.1 | Ensure vehicles purchased meet a minimum Euro 5 | Transport | Approximately 85% of current | To achieve 95% of fleet vehicles Euro 5 | Existing Service |

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|     | standard and increase to Euro 6 once available (or highest equivalent emissions and efficiency standards).  |                         | vehicles are Euro 5 standard.<br>Fuel savings generated through more efficient vehicles.  | standard or above by March 2017.  | budgets   |
| b.2 | Investigate and where appropriate purchase low-emission, fuel efficient and alternative fuelled vehicles (e.g. hybrid, electric).   | Transport               | Five electric vehicles purchased for Parks Grounds Maintenance. A diesel hybrid truck has been trialled for Streetcare, and others being investigated.                            | To purchase at least two higher efficiency alternative fuelled vehicles by March 2017, where fit for purpose within available budget. | Existing Service budgets<br>TfL LIP                         |
| b.3 | Give Capital Programme the estimated expenditure on vehicles and allocate potential amount to be made available for environmental vehicles (or to cover the additional cost per vehicle).<br><br>Continue to use whole-life costing and environmental business cases as part of the vehicle replacement schedule. | Transport               | An updated version predicting the anticipated fleet renewals up to 2023 has been submitted to Corporate Finance in September 2013 with environmental vehicle options highlighted. | N/A   | None required (existing Service budgets for implementation) |
| b.4 | Investigate and where appropriate purchase more fuel efficient plant and  | Transport<br>Streetcare | Eigthen electric hedge trimmers have been purchased replace petrol-powered equivalents. Electric  | Purchase at least a further six articles of machinery by  | Existing Service budgets                                    |

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|  | machinery. | Parks Grounds Maintenance | streetsweepers trialled by Streetcare. | March 2017. |  |
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### Improve efficiency of transport service

|     | Action  | Lead      | 2013 status  | Target  | Budget source           |
|-----|---|-----------|--|---|-------------------------|
| b.5 | Use fleet management software to monitor fuel use, develop efficient routes and allocate the most appropriate vehicles for tasks. | Transport | Tranman software being used for route planning, but fuel benchmarking has been delayed due to roll out of Batrak across the Fleet. CO <sub>2</sub> calculator being developed with Civica. | Set benchmark in 2013/14, then targets set against the benchmark.   | Existing Service budget |
| b.6 | Continue to provide fuel efficient training to fleet drivers.   | Transport | Has been part of Driver Certificate of Professional Competence Module since 2010.  | All drivers trained and continually updated training.<br><br>Reduction in fuel use by driver practices, 3-5% reduction. | Existing Service budget |
| b.7 | Include in new Transport Policy requirement for fleet drivers to uphold fuel efficient driving practices.                         | Transport | Being developed, and will include drivers of staff pool cars.  | Set benchmark in 2013/14, then targets set against the benchmark.   | None required           |

### C. Staff travel

With over 70% of Council staff living in the borough, there are opportunities to reduce the contribution of staff travel to Havering’s carbon emissions. With the consolidation of Council office buildings, car use also increases congestion and air pollution in Havering’s town centres and increases pressure on staff car parking. A car parking review was undertaken in 2010 to make the allocation of car parking related to the requirement of a car for work purposes. Alongside this was promotion of measures which would help make it easier for staff to travel to work in other ways. These measures included cycling initiatives, promoting the liftshare scheme, regular ‘Walk-to-work’ campaigns, and trialling a staff car pool scheme.

|     | Action  | Lead                              | 2013 status   | Target   | Budget source                                      |
|-----|---|-----------------------------------|---|--|--|
| c.1 | Continue to use information from staff car parking review to develop measures to encourage staff to reduce car use.<br><br>Transformation Stream considers benefits of home-working, effective working and modal shift. | Asset Management                  | Staff parking policy has reduced volume of free parking for staff by approximately 45%.             | N/A  | None required                                      |
| c.2 | Implement staff pool car scheme.  | Asset Management                  | A staff pool car scheme trialled in 2013.   | Council-wide scheme of 40 vehicles from June 2014. | Existing service budget                            |
| c.3 | Promote cycling among Council staff by:<br><br>- Ensuring sufficient and  | Asset Management<br><br>Transport | Cycle-to-work scheme holds two windows per year for staff to get bicycles through salary sacrifice. | At least two improvements to facilities and/or     | Existing service budgets<br><br>TfL Cycling budget |



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|     | <p>secure cycle parking at all Council offices (including beyond Romford)</p> <ul style="list-style-type: none"> <li>- Installing showering facilities in other Council offices</li> <li>- Review cycle paths and access to cycle parking within Council properties, to ensure safe, secure and ease of access.</li> <li>- Investigate and trial pool bicycle scheme for staff.</li> <li>- Encouraging take up of cycle training and route-finder buddy service</li> </ul> | Planning              | <p>Staff can claim cycle mileage for trips undertaken for work.</p> <p>Secure cycle storage provided at all Council offices.</p> <p>Staff showers available at two main Council office buildings.</p> <p>Cycle training provided free for staff.</p> <p>Discounts to staff for British Cycling membership and cycle servicing from local cycle shop.</p> <p>Free cycle training available via CTE, including assistance with route planning.</p> | <p>parking for cyclists each year.</p> <p>Establish demand for pool bike scheme by September 2014. Progress if demand evident.</p> |                             |
| c.4 | Implement Work from Home policy consistently across the Council, making links with reducing travel needs. Include assessment of environmental savings into review of the policy.   | ISS – Human Resources | Work from Home policy established and IT requirements available for staff.   | N/A  | None required               |
| c.5 | Promote staff travel measures such as:   | Asset Management      | Smarter Travel events held in November to raise awareness  | LBH staff awareness event  | TfL LIP<br>Existing Service |

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|     | <ul style="list-style-type: none"> <li>- Liftshare</li> <li>- Walking</li> <li>- Public transport</li> <li>- Season ticket loan</li> </ul> <p>Continue links between Asset Management, Sports Development Team, Smarter Travel team, Borough Cycling Officer and Communications to deliver holistic approach.</p> | <p>Transport Planning</p> <p>Sports Development</p> <p>Communications</p>    | <p>among staff in 2011 and 2012.</p> <p>Greener Ways to Get to Work week awareness campaigns held in 2009 and 2010.</p> <p>‘Walk-to-work’ week challenges and events held throughout the year.</p> <p>Launch of ‘Stravel’ modal shift rewards app in March 2014 for Council staff (reward points earned for distances travelled by sustainable modes of transport which are redeemable at participating retailers)</p> | <p>scheduled for March 2014, then held annually.</p> <p>30 Havering staff signed up for Stravel by March 2015.</p> <p>At least two other smarter travel campaign weeks per year (e.g. Walk to Work week, Bike Week, Liftshare Week)</p> | <p>budgets</p> |
| c.6 | <p>Undertake strategic targeting of smarter travel measures for staff, based on 3-yearly staff travel surveys, gaining feedback and identifying barriers and using staff home and work location data.</p> <p>Link engagement to staff travel measures being implemented.</p>                                      | <p>Transport Planning</p> <p>ISS – Human Resources</p> <p>Communications</p> | <p>Internal promotion of “Target your Trip” campaign.</p>  | <p>Undertake staff travel survey by March 2015.</p>   | <p>TfL LIP</p> |

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| c.7 | Include on front page of Havering Intranet site a link to Transport Direct route planner and Transport for London's Journey Planner. Include as part of development programme for the Intranet. | Communications         |  | Incorporate into rebuilding of Intranet (jointly with Newham) in 2014/15                      | None required |
| c.8 | Investigate the impact of joint working with Newham on staff travel and parking requirements.   | Asset Management<br>HR |  | Survey and plans undertaken alongside development of Newham-Havering shared services in 2014. |               |

## D. Schools

School buildings comprise over 50% of the Council's CO<sub>2</sub> emissions. The requirements under previous capital funding streams for new school builds stipulated high levels of sustainable design to ensure they were energy efficient (BREEAM Very Good). It is likely there may be several school rebuilds and further school expansions over the next three years, in which the Council will need to uphold standards on sustainability to reduce the demand for energy.

Through the Salix loan scheme, the Council has assisted six schools in converting all of their internal lighting to LEDs, have installed a Building Management System in one school, a swimming pool cover, and hot water cylinder and pipework insulation for several other schools. We have provided energy surveys to over 15 schools interested in identifying energy efficiency measures. Energy efficiency has been promoted through the Premises Bulletin newsletter provided by the Schools Capital team to the Heads of all schools, and we have investigated using the excess heat from the South Essex Crematorium to heat Gaynes school (Nov 2010).

Over the past three years, the Council's Sustainable Schools Officer delivered energy saving awareness activities with several schools, and assisted in helping schools become involved in the EcoSchools programme, an international scheme for becoming more sustainable schools. A Sustainable Schools group was established among six schools that were interested in promoting sustainability issues amongst schools, and held an Eco-Conference in 2010 to promote environmental issues amongst all schools in Havering, including energy and climate change.

### Ensure high level of energy efficiency in schools capital programme.

|     | Action  | Lead                                | 2013 status   | Target                           | Budget source           |
|-----|---|-------------------------------------|---|----------------------------------|-------------------------|
| d.1 | Uphold BREEAM Very Good standard in expansion and new school builds for community schools. Uphold Building Regulations standards. Consult with Energy Strategy in new | Asset Management<br>Energy Strategy | 11 schools undergone expansion, equivalent to 4200 additional class places for September 2014 intake.<br><br>Further plans are being consulted on (as of February 2014) for nine school | 100% of school capital projects. | Existing service budget |

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|     | school design.   |                  | expansions and three school rebuilds up to September 2018. Approval of plans by May 2014.  |     |  |
| d.2 | Ensure appropriate low-carbon and energy efficient technologies are considered and feasible ones undertaken during school consolidation, refurbishment and maintenance of school buildings and facilities, based on future maintenance programme (e.g. rewiring, emergency lighting, lighting, boilers, insulation, windows) | Asset Management | Feasibility survey undertaken on capturing heat from South Essex Crematorium to be used by Gaynes Primary School, but deemed unviable at this time. Boilers in Gaynes Primary School were installed with the ability to have heat piped from the crematorium at a future date. | N/A |  |

### Support schools in undertaking energy efficiency measures

|     | Action  | Lead            | 2013 status   | Target                     | Budget source  |
|-----|---|-----------------|---|----------------------------|--|
| d.3 | Carry out surveys for schools interested in accessing Salix loans for energy efficiency projects.<br><br>Assist schools in commissioning energy saving projects and funding through | Energy Strategy | Over 15 energy surveys provided, 10 schools have undertaken energy saving capital projects.<br><br>RE:FIT for Schools launched by the Greater London Authority in 2013. Salix for Schools launched in 2013. Aimed | 3 school projects per year | Climate Change revenue budget<br><br>Salix recycled fund<br><br>RE:FIT for Schools |

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|  | Salix loans<br><br>Refer schools not eligible for Salix loan through the Council to other funding streams (e.g. Salix for Schools, RE:FIT for schools) |  | towards Academy schools. |  |  |
|--|--|--|--------------------------|--|--|

### Assist schools in educating about energy efficiency

|     | Action  | Lead   | 2013 status  | Target  | Budget source |
|-----|---|--|--|---|---------------|
| d.4 | Enable access by schools to energy dashboard to monitor their energy use.   | Energy Strategy                                  | Access to energy data through TEAM Energy demonstrated to two schools. | At least 5 schools using energy M&T dashboard by March 2017 | None required |
| d.5 | Continue to inform schools of energy saving options through various means (e.g. Head / Bursar forums, Premises bulletins, Schools Capital group, other Council-led publications to schools, etc.) | Energy Strategy<br>Education<br>Asset Management | Information about Salix loans promoted through these mechanisms.       | N/A   | None required |

## E. Renewable Energy

Renewable energy systems on Council buildings offer opportunities for local authorities to save off their energy bills by generating their own electricity or heat, and the ability to generate an income stream from the government's Feed-in-tariff and Renewable Heat Incentive. Renewable energy enables the Council to reduce its dependence on fossil fuels and generate clean energy. Five Council buildings, two Council housing properties, one sheltered accommodation and seven schools have renewable energy installations. For schools interested in renewable energy, the Council has developed a guidance note to help provide them with the information they need and to understand the process.

|     | Action  | Lead                                | 2013 status   | Target   | Budget source   |
|-----|---|-------------------------------------|---|--|---|
| e.1 | Identify and take forward opportunities to retrofit renewable and low-carbon energy technologies on Council buildings where financially beneficial (both heat and electricity). | Energy Strategy<br><br>All Services | Solar photovoltaic (pv) systems retrofitted into one Council property, and solar thermal into a housing sheltered accommodation. One school installed biomass boiler.<br><br>Surveys undertaken for solar thermal on three Council leisure centres.<br><br>Comprehensive study undertaken in 2010 to assess solar pv suitability on all Council housing properties, including sheltered accommodation blocks and hostels. | 1 renewable energy scheme on a Council facility by March 2017. | Existing Service budgets<br><br>External funding sources (e.g. FITS, RHI) |

|     |   |   |   |     |               |
|-----|---|---|---|-----|---------------|
|     |   |   | Investigations on use of heat from Crematorium for local school.  |     |               |
| e.2 | <p>Provide guidance, advice and contacts to schools interested in installing low-carbon and renewable energy technologies (e.g. solar panels, wind turbines, biomass boilers).</p> <p>Ensure required legal support is provided to enable schools to take up renewable energy where there is no reason for objection.</p> | <p>Energy Strategy</p> <p>Asset Management</p> <p>Strategic Property Services</p> | <p>Seven schools with solar pv systems installed.</p> <p>Guidance drafted for schools interested in investigating solar pv systems.</p> | N/A | None required |
| e.3 | Investigate opportunities to generate renewable energy through management of forests in Havering.   | <p>Parks and Open Spaces</p> <p>Energy Strategy</p> <p>Planning</p>               | Current management of some Havering parks involves low-tech methods for tree-felling, with the waste-wood used for burning.             | N/A | None required |



## Reduction of Borough CO2 emissions

The Committee on Climate Change report *'How local authorities can reduce emissions and manage climate risks'* (2012) identified key areas where councils can play a role in helping reduce CO<sub>2</sub> emissions in their local authority areas. Our Climate Change Action Plan outlines the measures we will undertake in these areas to influence the borough's contribution to climate change.

### F. Housing

Havering Council has attracted £4.5million over last three years for housing insulation and heating measures, for both private sector and Council housing. We have been successful in uplifting the SAP<sup>1</sup> ratings of Council housing to an average of SAP 68 (EPC rating D), through the delivery of our Decent Homes programme in improving thermal comfort. We have also run a number of schemes with the Greater London Authority in which residents are visited by Home Energy Efficiency Advisors to provide advice on how to reduce their energy use. The Council is helping those facing fuel poverty through heating and insulation grants and other support mechanisms for vulnerable residents.

There are currently low levels of new housing development, so the Council is conscious of upholding standards but not deterring developers from building housing in Havering. There have been some excellent examples of housing providers who have upheld high sustainability standards higher than what is currently required under planning, such as the 51-unit Passivhaus development by Climate Energy Homes, Orchard Village by Circle and Old Ford Housing, and the Oldchurch housing development by Swan Housing.

We are currently using UNO database software to record energy efficiency data and SAP ratings of all dwellings in Havering, including all Council properties and over 20,000 EPC certificates. The Council recognises the need to ensure the housing market in Havering is prepared for Energy Act requirement that by 2018 landlords cannot let out a property with an EPC rating less than E.

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<sup>1</sup> Standard Assessment Procedure, a measure of the energy efficiency of an individual dwelling.

Through Building Regulations, the government has committed that all new homes will need be 'zero-carbon' by 2016. The Council will need to uphold this requirement, and through our current planning policy help housing developers in the borough work towards achieving this requirement.

### Improving energy efficiency in Council housing properties

|     | Action   | Lead                                 | 2013 status  | Target   | Budget source  |
|-----|--|--------------------------------------|--|--|--|
| f.1 | <p>Use condition survey data to identify and target worst performing properties.</p> <p>Use maintenance surveys to identify opportunities for energy efficiency improvements.</p> <p>Identify appropriate measures to improve energy efficiency of these properties.</p> | Homes and Housing                    | <p>Surveys undertaken in 2011 with Climate Energy identified properties under SAP 50.</p> <p>UNO data used to identify properties in need of energy efficiency improvements.</p> | Raise all Council housing SAP ratings to above 60 by March 2017  | <p>Decent Homes funding</p> <p>Homes Revenue Account capital</p> |
| f.2 | Continue allocation of funding within capital budget specifically for energy efficiency measures.  | Homes and Housing<br>Energy Strategy | Budget allocated   | Continue year on year allocation for energy efficiency measures. | Decent Homes funding   |
| f.3 | Insulate all remaining cavity walls and uninsulated lofts in Council properties.   | Homes and Housing<br>Energy Strategy |  | Completed by end of Decent Homes period March 2015.              | <p>Decent Homes funding</p> <p>ECO funding</p>                   |

|     |  |   |  |   |   |
|-----|--|---|--|---|---|
| f.4 | <p>Acquire external funding to deliver energy efficiency measures additional to or to support the capital programme (e.g. Energy Company Obligation [ECO] funding, government funding, etc).</p> <p>Facilitate surveys and identification of suitable properties required to secure funding.</p> | <p>Energy Strategy</p> <p>Homes and Housing</p> | <p>ECO pilots with three partners for external wall insulation on 267 flats in 13 blocks and 230 house properties.</p> <p>Tender exercise undertaken from Oct-Dec 2013 under a GLA framework to identify long-term partners for accessing ECO funding and Green Deal for residential energy efficiency across all tenures.</p> | <p>ECO and Green Deal partners in place by January 2014.</p> <p>Attract over £1million external funding for Havering Council by the end of the first ECO period (March 2017).</p> | <p>ECO funding</p> <p>Other external funding</p>                      |
| f.6 | <p>Increase technical awareness of capital programme and maintenance teams to identify additional opportunities for energy efficiency improvements.</p>  | <p>Homes and Housing</p>                        |  | <p>Resident Energy Liaison Officer in Housing team in place by March 2014.</p>  | <p>None required</p>  |
| f.7 | <p>Identify and implement suitable renewable energy technologies for individual Council properties, hostels and sheltered accommodation.</p>   | <p>Homes and Housing</p>                        | <p>Solar thermal installation on Will Perrin Court sheltered accommodation as part of major refurbishment in 2013. Solar pv systems installed on two Council houses.</p>   | <p>Surveys undertaken during sheltered accommodation improvements throughout 2014/15.</p>   | <p>Existing Service budget</p> <p>Existing invest-to-save capital</p> |
| f.8 | <p>Share and consolidate data from maintenance works,</p>  | <p>Energy Strategy</p>                          | <p>Keystone operational by March</p>   | <p>Integration to start once Keystone</p>   | <p>None required</p>  |

|     |   |                                       |   |   |                  |
|-----|---|---------------------------------------|---|---|------------------|
|     | condition surveys, Keystone, Housing survey data, EPC surveys and UNO to continue to target energy efficiency measures. | Homes and Housing<br>Business Systems | 2014.   | (Homes & Housing database) fully operational.   |                  |
| f.9 | Investigate low-carbon and high energy efficiency standards in Council new build housing.                               | Housing<br>Energy Strategy            | Council received funding for new build from the GLA which will meet Code for Sustainable Homes Level 4. | One new housing build exceeding current planning sustainability requirements by March 2017, subject to funding. | External funding |

### Engaging Council and social housing tenants in energy saving

|      | Action   | Lead              | 2013 status  | Target  | Budget source           |
|------|--|-------------------|--|---|-------------------------|
| f.10 | Establish and deliver programme of engagement with Council tenants on energy saving.   | Homes and Housing | Resident Energy liaison officer post created in Capital Programmes team, included in Service Plan. | Resident Energy Liaison Officer in Housing team in place by March 2014. | Housing Revenue Account |
| f.12 | Encourage Registered Social Landlords to provide information to their tenants on energy saving.<br><br>Share best practice on energy | Housing           | Review was undertaken in Nov-Dec 2011, 9 of 20 RSLs have energy efficiency information.            | Raise at least twice per year with Registered Social Landlords.         | None required           |

|      |   |   |  |   |                         |
|------|---|---|--|---|-------------------------|
|      | information for tenants amongst RSLs.   |   |  |   |                         |
| f.13 | Undertake targeted campaign for collective energy switching scheme to Council and social housing tenants.   | Energy Strategy   | <p>First collective energy switching auction undertaken in Jan 2012 with letters sent directly to social housing tenants. Two further auction windows have taken place.</p> <p>Auction in Nov 2013, promoted directly to preferred social housing providers in Havering and letters sent to all tenants.</p> | Register over 50 Council and social housing tenants each year for energy switching.   | Existing Service budget |
| f.14 | <p>Engage RSLs and private landlords in identifying tenants who could benefit from fuel poverty support.</p> <p>Link Council households facing severe cold with available fuel poverty support.</p> | <p>Housing</p> <p>Homes and Housing</p> <p>Exchequer Services</p> |  | <p>Housing engagement officers to identify residents each winter for fuel poverty support.</p> <p>Use Housing Benefit data to identify privately renting tenants at risk of fuel poverty.</p> | None required           |

## Supporting private residents in improving energy efficiency and reducing fuel poverty

|      | Action   | Lead  | 2013 status  | Target  | Budget source           |
|------|--|---|--|---|-------------------------|
| f.15 | <p>Continue to access and promote grants for private residents to undertake energy efficiency measures in their homes.</p> <p>Use data from private sector housing stock condition survey (to be done in 2014) to identify properties suitable for energy efficiency measures.</p> | Energy Strategy                             | <p>Tender exercise undertaken from Oct-Dec 2013 under a GLA framework to identify long-term partners for accessing ECO funding and Green Deal for residential energy efficiency across all tenures.</p> <p>Participated in GLA RE:NEW project in 2012-2013, with household energy advisors visiting residents in areas of high fuel poverty to provide advice on energy efficiency and identify if eligible for heating or insulation grants.</p> <p>Private sector housing stock condition survey to be done in 2014.</p> | Attract over £400k for private residents by the end of the first ECO period (March 2017). | ECO funding             |
| f.16 | Deliver fuel poverty programme to provide winter support for private residents at risk of fuel poverty.  | <p>Energy Strategy</p> <p>Public Health</p> | Delivery of Warm Homes Healthy People project for winters 2010/11 and 2011/12 established a suite of measures to support vulnerable residents in private housing.  | Reach over 1000 vulnerable residents each winter.   | Existing Service budget |

|      |   |                 |   |   |                         |
|------|---|-----------------|---|---|-------------------------|
|      | Use benefits data, Mosaic Experian profiles and other existing data to identify and develop targeted materials for households at risk of fuel poverty and identify those eligible for energy efficiency grants. |                 | Utilised benefits data for mailshots to groups eligible for funding for insulation & heating (RENEW2, CERT).  |   |                         |
| f.17 | Continue to embed referral network among Council services, social service partners, the voluntary sector, health sector, police services, public protection, etc. for energy efficiency funding opportunities.  | Energy Strategy | Delivery of Warm Homes Healthy People project for winters 2010/11 and 2011/12 built up referral network amongst agencies.   | Train over 100 staff and volunteers each year who can make referrals for residents facing fuel poverty. | None required           |
| f.18 | Promote collective energy switching amongst private residents.  | Energy Strategy | First collective energy switching auction undertaken in Jan 2012, with publicity in local paper, on Council website and residents publications.<br><br>Auction in Nov 2013, publicity also on Council bulletin boards, library email and letters to private residents identified with | Register over 500 Havering residents each year for energy switching.                                    | Existing Service budget |

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|  |  |  | potentially high energy bills. |  |  |
|--|--|--|--------------------------------|--|--|

### Encouraging social and private landlords to improve energy efficiency of existing properties

|      | Action   | Lead                       | 2013 status  | Target   | Budget source |
|------|--|----------------------------|--|--|---------------|
| f.19 | Support and seek partnerships with Registered Social Landlords (RSLs) in accessing ECO funding for improving energy efficiency in their stock.   | Energy Strategy<br>Housing | Tendering exercise undertaken in Oct-Nov 2013 to appoint partner to deliver energy efficiency, to include working with RSLs in Havering. | Work with at least one social landlord to access ECO funding.      | None required |
| f.20 | Use data from Private Housing Solutions EPCs to gain overview of SAP ratings in private rented sector and target measures.   | Energy Strategy<br>Housing |  | N/A  | None required |
| f.21 | Encourage energy efficiency improvements among the private rented sector through the Council's private sector renting and leasing, housing enforcement, Empty Homes, Council leasing and Private Housing Solutions.<br><br>Support private rented sector in accessing funding to | Housing<br>Energy Strategy |  | Set recommended standards for private landlords by September 2014. | None required |



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|  | improve energy efficiency of properties. |  |  |  |  |
|--|--|--|--|--|--|

### Ensuring support of high levels of energy efficiency in new housing developments and energy efficiency refurbishments

|      | Action  | Lead  | 2013 status   | Target | Budget source |
|------|---|---|---|--------|---------------|
| f.22 | Uphold current Havering standards and London Plan requirements for housing development. | Development Management<br><br>Housing<br><br>Development Planning | Cabinet decision in 2010 to defer increase from Code for Sustainable Homes Level 3 to Code Level 4. Currently upholding requirements as of London Plan, which requires Code Level 4 for major developments.<br><br>To be included in Pre-Application Guidance for developers. | N/A    | None required |
| f.23 | Support and showcase low-carbon housing developments where beyond minimum requirements. | Development Management<br><br>Energy Strategy<br><br>Housing      | Orchard Village by Circle & Old Ford Housing.<br><br>Passivhaus housing development by Climate Energy Homes in Rainham starting in 2013.<br><br>Oldchurch development by Swan Housing achieving Code  | N/A    | None required |

|      |   |   |  |  |               |
|------|---|---|--|--|---------------|
|      |   |   | for Sustainable Homes Level 4.   |  |               |
| f.24 | Develop Council policy for using Allowable Solutions for housing developers to meet zero-carbon requirements, through Havering's Community Energy Fund. | Energy Strategy<br>Development Planning | Government consultation in October 2013 on national Allowable Solutions options.<br><br>New / emerging Havering Local Plan to reflect national policy and guidance on Allowable Solutions. | Allowable solutions policy in place by March 2015. | None required |
| f.25 | Work with housing developers to prepare for zero-carbon homes by 2016.<br><br>Outline requirements in pre-application meetings for zero-carbon homes.   | Housing<br>Development Management       |  | N/A  | None required |

## G. Planning

Due to the broader UK economic situation over the past few years, much less new development has occurred in Havering and across the UK. In light of this, although Havering Council's Local Development Framework and Development Policies required Code for Sustainable Homes (CSH) Level 4 from 2010, a corporate decision was made to reduce the requirement for CSH from Level 4 to Level 3, in line with Building Regulations at the time. The Mayor's London Plan, however, now expects CSH Level 4 for major developments, which Havering Council is now upholding in major planning applications. A Community Energy Fund has been set up through the Council's Supplementary Planning Guidance on Sustainable Design and Construction to enable developers to support energy reduction projects in the borough, however the planning preference is always to meet energy reduction requirements onsite.

Climate Change is identified as a thematic priority in the draft Local Plan<sup>2</sup>, signalling that Havering must continue to address our contribution to climate change and be prepared for its impacts. To ensure the Council is on top of sustainability and energy policies in planning, Development Management officers and Building Control officers have regularly received training on topics related to energy efficiency and sustainability, such as BREEAM, Code for Sustainable Homes and External Wall Insulation.

### Upholding existing and developing emerging policies to promote sustainable energy in developments

|     | Action   | Lead                                      | 2013 status   | Target   | Budget source  |
|-----|--|---|---|--|--|
| g.1 | Include climate change as a priority in new Local Plan.  | Development Planning                      | The emerging Havering Local Plan policy is taking account of national and regional policy guidance as well as Council aspirations and objectives.                 | Local Plan to be adopted during 2015/16.                         | None required  |
| g.2 | Identify and scope projects for Community Energy Fund and set carbon price.  | Energy Strategy                           | Community Energy Fund is included in Havering planning policy.  | Carbon price set, projects scoped and packaged by December 2014. | Existing Service budget<br>Climate Change revenue budget |
| g.3 | Negotiate Section 106, Allowable Solutions and Community Infrastructure Levy (CIL) for funding community energy projects through the Community | Energy Strategy<br>Development Management | The Havering CIL is being progressed with a view to adoption in 2014. The Preliminary Draft Charging Schedule for the CIL is due to be published for consultation | N/A  | None required  |

<sup>2</sup> The Council is required to prepare a Local Plan for the Borough which will set out the future planning policies and priorities and contribute to the achievement of sustainable development (NPPF). The new Havering Local Plan will eventually replace the Local Development Framework which was adopted in 2008.

|     |  |                        |  |   |               |
|-----|--|------------------------|--|---|---------------|
|     | Energy Fund.   |                        | autumn / winter 2014.  |   |               |
| g.4 | Ensure Council's requirements for sustainable design and construction are communicated to developers at all pre-application meetings of major developments.<br><br>Include in review of pre-application guidance and procedures. | Development Management | Pre-application guidance and procedure review due for refresh. | Requirements included in pre-application guidance by June 2014. | None required |

### Maintaining up-to-date levels of understanding on current energy and sustainability issues amongst officers

|     | Action  | Lead  | 2013 status  | Target  | Budget source |
|-----|---|---|--|---|---------------|
| g.5 | Conduct training and share information with planning and building control officers on emerging policy and changes to energy and sustainability requirements.            | Energy Strategy<br><br>Development Management<br><br>Building Control | Training on External Wall Insulation in 2013 for all building control and development Management officers. | At least one training per year, as necessary. | None required |
| g.6 | Provide information to officers to ensure development applications which exceed TfL thresholds submit Travel Plans, and officers are able to assess them and to monitor | Transport Planning<br><br>Development Management                      |  | N/A   | None required |

|  |                 |  |  |  |  |
|--|-----------------|--|--|--|--|
|  | implementation. |  |  |  |  |
|--|-----------------|--|--|--|--|

### Encouraging higher levels of energy efficiency in major schemes

|     | Action  | Lead  | 2013 status  | Target | Budget source |
|-----|---|---|--|--------|---------------|
| g.7 | Work with partners of major London-wide schemes (e.g. Crossrail) to encourage best practice in carbon reduction and maintain Havering planning policy standards in design, masterplanning and delivery. | Development<br>Planning<br><br>Regeneration | On-going work with Crossrail to ensure highest standards of development linked to the delivery of the Crossrail scheme (2017/ 2018). | N/A    | None required |
| g.8 | Assist in directing partners towards potential funding sources to support sustainable development, energy efficiency and low-carbon technologies.   | Regeneration<br><br>Energy Strategy         |  | N/A    | None required |

## H. Regeneration

Major redevelopment and regeneration schemes have the opportunity to consider energy use and sustainability on a area-wide scale. There are also more opportunities for ensuring new builds and building refurbishments which are part of the regeneration programme incorporate high levels of sustainability, and can be used as showcase developments. Energy masterplans have been done for the London Riverside Opportunity Area being, being supported by the GLA, and the Angel Way Energy Masterplan. These energy masterplans look at energy demand and potential energy supply to identify opportunities for decentralised energy. Libraries, leisure centres and community centres being built have incorporated sustainability into their design. The MyPlace youth centre in Harold Hill won a Public Sector Sustainability Award in 2012, and was designed to meet BREEAM Outstanding sustainability levels.

### Underpinning masterplans and regeneration schemes with energy efficient and low-carbon design

|     | Action   | Lead                                       | 2013 status | Target                                   | Budget source            |
|-----|--|--|-------------|--|--------------------------|
| h.1 | <p>Develop low-carbon design guidance for major regeneration areas and ensure it is included in masterplans of the area.</p> <p>Include in briefs and contracts for planners and designers to meet high levels of energy efficiency, travel efficiency and renewable energy, and explore innovative opportunities.</p> | <p>Regeneration</p> <p>Energy Strategy</p> |             | <p>Guidance completed by March 2015.</p> | Existing Service budgets |

|     |   |   |   |  |                          |
|-----|---|---|---|--|--------------------------|
| h.2 | Identify key areas for Energy Masterplanning, to guide management of energy demand alongside growth and development in regeneration areas.  | Energy Strategy<br>Regeneration<br>Development Planning   | Energy Masterplan for London Riverside Opportunity Area with GLA will set out opportunities for decentralised energy production in the Rainham area.                      | N/A  | None required            |
| h.3 | Encourage developers to build low or zero carbon developments on suitable regeneration sites where feasible.  | Regeneration<br>Development Management<br>Energy Strategy |   | N/A  | None required            |
| h.4 | Set specification for public realm improvement schemes to minimise any anticipated increase in energy (e.g. streetlighting, car traffic, residential and commercial energy demand).   | Regeneration<br>Streetcare                                | Draft written for TfL scheme managers November 2013.  | Specification adopted by March 2014.   | None required            |
| h.5 | Investigate potential for district/decentralised heat and energy opportunities in all major regeneration schemes, particularly with large-scale commercial energy schemes (e.g. waste-to-energy facilities, combined heat and power plants, large-scale | Regeneration  | Orchard Village redevelopment built with Combined Heat & Power system, able to connect to Barking Power station.<br><br>Energy strategy drafted for Angel Way Masterplan. | All major schemes to include heat & energy survey as part of masterplanning. | Existing Service budgets |

|     |   |  |  |   |  |
|-----|---|--|--|---|--|
|     | renewables).  |  |  |   |  |
| h.6 | Use Council-led new builds and refurbishments as opportunities for showcasing high levels of sustainable design and construction. | Regeneration<br>Culture & Leisure<br>Energy Strategy | My Place youth centre in Harold Hill received the Public Sector Sustainability Award 2012, designed to BREEAM Outstanding.<br><br>Romford Leisure Centre to incorporate high levels of energy efficiency and renewable energy.<br><br>Elm Park Library is London's first low-carbon library. | Two showcase projects designed by March 2017. | Existing Service budgets<br>External funding |

## I. Borough-wide transport

In Havering, transport comprises 24% of all carbon emissions in the borough. Measures to reduce the Council's own travel footprint and to encourage residents to reduce their car use will help to reduce CO2. Also broader benefits by reducing air pollution and improving health through more active residents and improved air quality. In 2010, Havering was been selected by TfL to be one of the outer London Biking Boroughs, to deliver projects to promote cycling for both leisure and commuting. School Travel Plans are well established at all schools in Havering, and are being implemented to reduce car journeys amongst pupils, parents and staff. Several high-profile public events have been held to promote more environmentally-friendly travel amongst Havering residents, and work is being done to promote 'smarter travel' amongst Havering workplaces.



## Promote sustainable transport amongst residents, businesses and the community in Havering

|     | Action  | Lead               | 2013 status   | Target  | Budget source       |
|-----|---|--------------------|---|---|---------------------|
| i.1 | <p>Promote cycling among businesses and residents through Biking Borough/Borough Cycling Programme measures, including:</p> <ul style="list-style-type: none"> <li>- Organising family Led-ride cycle ride days.</li> <li>- Supporting businesses to provide cycle parking and other cycling related facilities.</li> <li>- Working with residents, businesses and partners organisations to make it safer and easier for people to cycle (e.g. cycle marking, infrastructure interventions, cycle training, cycle safety, maintenance classes etc.)</li> <li>- Providing secure residential cycle parking in areas of high density housing.</li> </ul> | Transport Planning | <p>Cycle parking spaces installed provided at 108 businesses in town centre locations in 2011 and 2012</p> <p>98 secure cycle parking spaces provided in high density residential estates</p> <p>Use of Sky/British Cycling Partnership to provide programme of led rides over the summer, 450 ride opportunities for residents</p> <p>3 Ingrebourne Valley cycling events held from 2011-2013</p> <p>Cycle training promoted via led rides and at council events</p> <p>Investigation of potential to permit cycling in subways to improve access to Romford Town Centre</p> <p>Beauty and the Bike event held in 2013 – 5000 people engaged</p> | <p>1 public cycling promotion event/activity per year</p> <p>Improvements to or growth of 60 cycle parking spaces per year (which may include addition of new spaces, upgrade of facilities, additional security measures, expansion of parking areas, etc.)</p> <p>At least 50 participants in Adult Cycle Training per year</p> <p>At least 1600 pupils undertaking Bikeability cycle training per year</p> | TfL Cycling funding |

|     |   |                    |  |   |         |
|-----|---|--------------------|--|---|---------|
|     | <ul style="list-style-type: none"> <li>- Providing on-street cycle parking close to businesses key trip generators (businesses, leisure destinations)</li> <li>- Providing cycle parking at transport interchanges</li> </ul> |                    | in cycling message.  |   |         |
| i.2 | Organise awareness events and campaigns to promote sustainable transport to Havering residents.   | Transport Planning | <p>Bikewise event held three years running in Hornchurch Country Park.</p> <p>Materials for business engagement prepared for Havering Business Awards.</p> <p>Target your Trip webpage established October 2013.</p> | <p>Promotion of sustainable transport at Havering Show each year.</p> <p>Launch of Target your Trip Campaign in Spring 2014.</p> <p>Stravel rewards app launched for residents and businesses in August 2014. 1000 registrants to Stravel by August 2015.</p> | TfL LIP |
| i.3 | Continue supporting schools in monitoring and   | Transport          | 100% of schools in Havering  | Maintain same or greater number of  | TfL LIP |

|     |  |                    |   |   |         |
|-----|--|--------------------|---|---|---------|
|     | <p>implementing school travel plans.</p> <p>Use School Travel Plan data to determine reduction in CO2 emissions and air pollution.</p> | Planning           | <p>had Travel Plans by 2009.</p> <p>Data collected from School Travel Plans indicates around 14% reduction in car use since 2009.</p> <p>61 schools review their travel plans and 56 are accredited in 2013. 15 of the accredited schools have been rated Outstanding by TfL (indicating high levels of modal shift).</p> <p>A Walk to School annual event highly successful involving many schools in Havering, most recently in October 2012.</p> | <p>schools reviewing travel plans &amp; accredited.</p> <p>Maintain same level of modal shift away from car journeys year on year (14%)</p>   |         |
| i.4 | Assist workplaces, particularly SMEs, in developing smarter travel interventions.  | Transport Planning | <p>Travel Plan produced for Riverside BID in Rainham</p> <p>Content available on Target Your trip for local businesses.</p>   | <p>One-to-one meetings arranged with 10 businesses to discuss smarter travel measures by August 2015.</p> <p>Stravel rewards app launched to SMEs in August 2014.</p> <p>At least 6</p> | TfL LIP |

|     |   |  |  |  |   |
|-----|---|--|--|--|---|
|     |   |  |  | businesses signed up to Stravel platform by August 2015. |   |
| i.5 | Support local cycling and walking groups to promote their activities. | Transport Planning<br><br>Sports development | Support provided to community groups and involvement in Borough promotions and events.<br><br>Regular Cycle Liaison Group meetings.<br><br>Havering Walking for Health group led by volunteers | N/A  | TfL LIP<br><br>Existing Service budgets |

### **Incorporate sustainable transport into regeneration**

|     | Action   | Lead                                   | 2013 status  | Target   | Budget source                   |
|-----|--|--|--|--|---------------------------------|
| i.6 | Ensure development briefs for large-scale regeneration projects are designed to promote sustainable transport. | Regeneration<br><br>Transport Planning | Park and ride options have been explored for Romford. Achieved for Beam Park development prospectus. | All regeneration projects to include study on sustainable transport. | Existing Service budgets        |
| i.7 | Continue to ensure that strategic planning of town centres continues to include                                | Regeneration<br><br>Transport          | Town centre schemes including Rainham TMS, Hornchurch and Romford major schemes                      | N/A  | TfL LIP<br><br>External funding |

|     |  |                                       |  |   |   |
|-----|--|---------------------------------------|--|---|---|
|     | measures for reducing congestion and promoting sustainable transport support.                            | Planning<br>Development<br>Planning   | designed to better manage congestion and better accommodate sustainable modes of transport.  |   |   |
| i.8 | Continue to seek funding to deliver improvements and promotion of cycle paths and footpaths (greenways). | Regeneration<br>Transport<br>Planning | Sustrans completed, creating 13 miles of new greenways.<br><br>Rainham marshes created 6 miles of new paths increasing connectivity.       | Additional 10 miles of new greenway/cycle paths by 2017, subject to funding | European Reconstruction & Development Funding (ERDF)<br><br>Other external funding sources (e.g. Big Lottery) |
| i.9 | Investigate electric vehicle charging points for Council carparks.                                       | Transport<br>Planning                 | 12 electric vehicle charging points in Havering, within two housing developments (8 linked to Source London, available to for public use). | Review by March 2015  | TfL Plugged in Places funding   |

## J. Businesses, Community partners and Communications

Assisting community partners and businesses to reduce their energy consumption is critical to reducing Havering's carbon emissions. As energy prices continue to rise, Havering Council can play a role in helping partners reach out to their vulnerable service users/members and support local businesses in managing their energy costs. The Council has worked with voluntary sector partners over the last three winters to provide support to their service users who are facing fuel poverty. We have also promoted a bulk energy pricing scheme for local businesses and continue to award the most 'Green Business' in the annual Havering Business Awards, to showcase best practice in sustainability.

## Supporting partners in tackling climate change and improving energy efficiency for themselves and their clients

|     | Action   | Lead   | 2013 status  | Target  | Budget source   |
|-----|--|--|--|---|---|
| j.1 | <p>Work in partnership with community and voluntary groups and health partners to raise awareness on climate change and energy issues and apply for funding for programmes.</p> <p>Assist with helping partners to reduce their energy use and carbon emissions.</p> | <p>Community Engagement</p> <p>Energy Strategy</p> <p>North East London Foundation Trust (NELFT)</p> | <p>Applications submitted for energy efficiency improvements to community halls.</p>   | N/A   | <p>None required</p> <p>External funding</p>            |
| j.2 | <p>Deliver programmes to assist residents facing fuel poverty and improve the energy efficiency of their homes, working with community groups, the voluntary sector and health partners.</p>   | <p>Public health</p> <p>Energy Strategy</p>  | <p>Warm Homes Healthy People project delivered winter 2010/11 and 2011/12 with four voluntary sector partners and Council services to tackle fuel poverty.</p> <p>Funding provided through Council Public Health team to deliver fuel poverty measures for winter 2013/14.</p> | <p>Winter fuel poverty project run each winter, subject to funding.</p> <p>Reach 1000 vulnerable residents each winter.</p> | <p>Existing Service budgets</p> <p>External funding</p> |
| j.3 | <p>Engage with local environmental groups to keep informed of Council policy,</p>  | <p>Energy Strategy</p>   | <p>Attend/Facilitate meetings with Friends of the Earth, Havering Wildlife Partnership, Havering</p>   | N/A   | <p>None required</p>                                    |

|  |  |  |   |  |  |
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|  | seek their views and identify ways to collaborate on issues. |  | Environmental Education Partnership, Thames Chase Partnership, Havering Cycle Campaign. |  |  |
|--|--|--|---|--|--|

### Exploring opportunities for businesses to engage in energy efficiency

|     | Action  | Lead                        | 2013 status  | Target   | Budget source                     |
|-----|---|-----------------------------|--|--|-----------------------------------|
| j.4 | <p>Assist local businesses to take advantage of growth opportunities in emerging energy sectors, by sharing information, linking businesses together and accessing funding.</p> <p>(e.g. Green Deal &amp; ECO, renewable energy, sustainable construction, recycled/reused/refurbishment, green sourcing, etc.)</p> | Business Retention & Growth |  | 6 Havering-based businesses benefiting from Council's energy efficiency schemes.       | None required<br>External funding |
| j.5 | <p>Publish articles and raise awareness through business forums of opportunities to improve energy efficiency and reduce energy costs.</p> <p>Provide information on</p>  | Business Retention & Growth | <p>Energy brokerage scheme established for Havering businesses.</p> <p>Green Award at Havering Business awards.</p> <p>Carbon reduction themes</p> | One feature in Business communications per year on energy efficiency and energy saving | None required                     |

|     |  |  |  |                |               |
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|     | schemes available to businesses to become more environmentally sustainable.  |  | discussed at Leader's network events.<br><br>Collective energy switching scheme for Havering businesses.   | opportunities. |               |
| j.6 | Link with community colleges and training institutes to involve students in emerging energy sectors (sustainable construction, renewable energy, heating and insulation, etc). | Business Retention & Growth  | Presentation given at Business Breakfast with Havering College on Green Deal opportunities (2011).   | N/A            | None required |
| j.7 | Explore opportunities for linking business districts with decentralised energy potential.  | Energy Strategy<br><br>Development Planning<br><br>Business Retention & Growth | Energy Masterplan for London Riverside Opportunity Area with GLA will set out opportunities for decentralised energy production in the Rainham area. | N/A            | None required |

### Communicating energy saving messages to the public

|     | Action                        | Lead           | 2013 status                  | Target         | Budget source |
|-----|-------------------------------|----------------|------------------------------|----------------|---------------|
| j.8 | Publicise 'good news' stories | Communications | Public Sector Sustainability | At least three | None required |



|     |  |                  |  |   |               |
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|     | <p>to public on energy-saving projects.</p> <p>Provide advice for energy saving and reducing energy bills in Council corporate communications (i.e. Living, social media, press releases)</p> <p>Set up and maintain webpages on Havering's website dedicated to Climate Change, Fuel Poverty, Energy Saving Tips and Collective Energy Switching.</p> | Corporate Policy | <p>Award 2013 for MyPlace.</p> <p>Publicity for Elm Park Library, MyPlace, Angel Way car park and LED streetlighting scheme.</p> <p>Publicity undertaken for GLA RE:NEW2 energy efficiency scheme for residents.</p> <p>Webpages established</p> | communications per year on Council energy efficiency schemes or projects. |               |
| j.9 | <p>Include in Annual Report measures on energy efficiency and savings to the Council.</p>  | Corporate Policy | <p>Page allocated in the 2011/12 and 2012/13 Annual Reports on Energy Efficiency.</p>  | Reported annually.  | None required |

## K. Borough-wide renewable energy and decentralised energy

Promoting renewable energy helps reduce the Borough's dependence on fossil fuel energy, reducing our CO<sub>2</sub> emissions and enabling us to generate more local power. The government's Feed-in-tariff and Renewable Heat Incentive schemes provide regular payments to the owner of the renewable energy system for the amount of energy generated. Householders and businesses who install renewable energy, such as solar panels or ground-source heat pumps, can therefore benefit both through lowering their need to purchase energy from energy companies as well receiving money through these tariffs. Large-scale renewable energy schemes can help generate local energy supplies (decentralised energy) which can benefit residents and businesses if linked to local energy demand.

### Promoting renewable energy in the borough

|     | Action   | Lead  | 2013 status   | Target  | Budget source            |
|-----|--|---|---|---|--------------------------|
| k.1 | Investigate potential for large-scale renewable energy, district heat networks and decentralised energy schemes, particularly linked to regeneration opportunities.<br><br>Include requirement to investigate for all masterplanning and development opportunities where there is potential. | Regeneration<br><br>Development Planning<br><br>Energy Strategy | Rainham Energy Masterplan completed with GLA.<br><br>Angel Way Energy Masterplan undertaken.<br><br>Biossence application for 25MW of electricity generated, investigating district heat opportunities.<br><br>Orchard Village developed to enable connection to Barking Power Station. | All masterplans to include study into renewable energy. | Existing Service budgets |

|     |  |   |  |   |                          |
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| k.2 | Undertake borough-wide renewable energy mapping / feasibility study on the potential for supply and demand of renewable energy generation in Havering, including area-based energy demand and supply studies where there is potential. | Energy Strategy<br>Development Planning | London Heat Map covering all boroughs available to identify district heat network opportunities in Havering.   | Feasibility study undertaken by March 2016. | Existing Service budgets |
| k.3 | Monitor overall renewable energy generated in Havering by all installation (registered through FITs and RHI registrations)   | Energy Strategy<br>Development Planning | As of October 2013, there were 568 solar panel installations in Havering (fourth highest borough in London).<br><br>During 2012/13, renewable energy increased in Havering by 1752 kWp through solar energy and 6 kWp through wind energy. | Monitor annually.                           | None required            |

## L. Waste

Reducing waste helps to reduce CO<sub>2</sub> emissions, through:

*Waste prevention* – Not generating the waste in the first place reduces the amount of transport required to take waste to landfill, reduces the amount of methane produced with less waste and also reduces the energy required to make the product which is being wasted.

*Composting* – Composting reduces the volume of waste being transported to landfill.

*Bring banks* – Promoting reuse through collection sites for clothing, shoes, materials, etc, reduces the energy required to make these goods. Strategically located bring banks can also cut down on car journeys, if they are sited in places residents travel to anyway, such as supermarkets and schools.

*Recycling* – Recycling generally requires less energy to recycle something into a new product than creating the product from scratch.

The Council has achieved its targets in providing recycling facilities for flats, the number of bring banks across the borough and has increased in types of goods available for collection through bring banks. Reducing the emissions from waste collection is incorporated into waste and recycling collection contracts.

Havering Council is also engaging partners who are exploring potential for generating energy from waste, and investigating the opportunity for using this power for local energy demand.

|     | Action  | Lead              | 2013 status   | Target  | Budget source |
|-----|---|-------------------|---|---|---------------|
| I.1 | Continue education and awareness-raising on waste prevention. | Waste & Recycling | Secured £1,350,000 funding from Department of Communities and Local Government (DCLG) to incentivise recycling and promote waste prevention over the next 3 years.<br><br>Borough-wide rewards and incentives scheme to encourage waste minimisation set up by January 2014 (London Green | 20% of Borough households have activated accounts in London Green Points scheme by end of 2014. Over 25% activated by end of 2015.<br><br>200 Waste Prevention events per year. | DCLG          |

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|     |  |                   | Points).  |  |               |
| I.2 | Include requirement in contracts with external contractors for waste management services that they undertake measures to minimise their carbon emissions. (e.g. disposal, sorting, recycling, transport) | Waste & Recycling | Waste collection contract expiring in 2014, tender documents drafted in 2013. Bidders were required to include in their Method Statements how their proposals will work towards achieving the CO <sub>2</sub> target in The Mayors Waste Strategy, which was part of the evaluation criteria. | N/A  | None required |
| I.3 | Monitor of fuel consumed and estimate of CO <sub>2</sub> emissions of contractors.   | Waste & Recycling | Benchmarking of CO <sub>2</sub> emissions undertaken in 2008 and 2013 for current waste collection contractor.  | Contractors to report annually on CO <sub>2</sub> emissions from waste collection operations (vehicle-based).<br><br>Maintain or reduce litres of fuel used in delivery of the service year on year. | None required |
| I.4 | Identify departments which have significant contributions  | Waste & Recycling | Corporate building recycling rolled out. Presentations given  | Undertake waste audit to understand  | None required |

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|     | <p>to Council waste production (through paper, catering, grounds maintenance, etc.), and develop and implement ways to reduce waste.</p> <p>Investigate impact of changes to cleaning regime on waste &amp; recycling in Council facilities.</p> | Facilities Management   | on waste prevention and recycling.   | <p>streams and opportunities for savings by June 2014.</p> <p>Reduce waste volume and cost by 10% by March 2015.</p> |                          |
| I.5 | <p>Continue increasing number of home composters sold.</p> <p>Introduce site-based compost units to schools/flats for large-scale food waste composting.</p>   | Waste & Recycling   |  | <p>500 home composters sold per year</p> <p>5 larger compost units installed in larger sites by</p>                  | Existing Service Budgets |
| I.6 | Investigate and support opportunities for waste-to-energy facilities.  | <p>Energy Strategy</p> <p>Development Management</p> <p>Development Planning</p> <p>Waste &amp; Recycling</p> | Application from Biossence approved 2013 for waste-to-energy facility in Rainham to deliver 25MW of electricity. | N/A  | None required            |

|     |   |   |  |  |                      |
|-----|---|---|--|--|----------------------|
| I.7 | <p>Investigate opportunities for the Council to find more cost-effective ways to manage and reduce waste.</p> <p>Investigate recycling facilities for non-corporate council buildings e.g. libraries, children's' centres etc</p> | <p>Facilities Management</p> <p>Waste &amp; Recycling</p>       |  | <p>Identification and review of current waste disposal channels by September 2014.</p> |                      |
| I.8 | <p>Investigate opportunities for Parks, Cemeteries and Highways to find more cost-effective ways to manage and reduce waste.</p>  | <p>Waste &amp; Recycling</p> <p>Parks, Highways, Cemeteries</p> | <p>Some data gathered to determine the quantity of waste disposed of through disposal points</p> | <p>Reduce the amount of waste deposited at disposal sites by 5% by end of 2015.</p>    | <p>None required</p> |

## Adaptation to climate change impacts

The latest International Panel on Climate Change report (Fifth Assessment Report, Summary for Policymakers – Sept 2013) confirms that the climate is changing based on human-induced global warming. The UK will see generally drier warmer summers, leading to summer water shortages and thermal discomfort indoors. During winter there will be less overall precipitation but more concentrated incidences of rainfall, leading to more severe flooding. There will be generally more extreme weather incidences across the seasons, with heatwaves, flooding and winter storms.

Through a London Councils project, Havering undertook a Local Climate Impacts Profile in 2010 to assess the main risks the Council would face due to climate change, and identify areas to improve our ability to respond to the resulting weather changes. Public Health England and NHS England have published their Heatwave Plan for England (2013) and Cold Weather Plan for England (2013). Both stress the need to prepare for dealing with the potential impacts of climate change.

Under the Flood and Water Management Act 2010, government is requiring local authorities to become Sustainable Urban Drainage Approval Bodies, which will require Councils to review and approve drainage plans and strategies for developments sites before any construction can begin. This requirement is expected to be introduced in April 2014 for new development and will help with ensuring further development is prepared for flooding and does not increase the risk of flooding in their neighbourhoods.

### M. Strengthening internal Council preparedness for extreme weather events and climate change

|     | Action   | Lead               | 2013 status   | Target   | Budget source |
|-----|--|--------------------|---|--|---------------|
| m.1 | Factor extreme climatic conditions and the effects of climate change into health and safety / risk assessments | Emergency Planning | Republication of the Emergency Planning Handbook identifying community resilience issues. | All assessments and risk registers to have considered effects of | None required |



|     |   |                    |  |                                  |               |
|-----|---|--------------------|--|----------------------------------|---------------|
|     | and risk registers for relevant Services.   |                    |  | anticipated climate change.      |               |
| m.2 | Incorporate adaptation strategies into Corporate risk assessments and related to emergency planning for Services.   | Emergency Planning | Main risks identified as part of the Borough Risk Register in line with the London Risk Register and risk management strategy. This then assists in the formulation of response plans.   | N/A                              | None required |
| m.3 | Continue mapping and analysis of incidences to undertake more anticipatory and area specific planning. Assess risk registers for trends of climate change and weather incidences.<br><br>Encourage review of service risk registers with the Corporate Operational Risk Management Group. | Emergency Planning | National and International incidents monitored and reviewed which forms part of the evidence towards risk mitigation measures.<br><br>Review of service risk registers considered at Operational Risk Management Group and mitigating measures reviewed. | N/A                              | None required |
| m.4 | Monitor water use across the Council, consolidate water billing and undertake efforts to reduce consumption.  | Energy Strategy    |  | Audit to be completed in 2014/15 | None required |
| m.5 | Continue to support Services in improving understanding of anticipated climate change   | Energy Strategy    | Local Climate Impacts Profile (LCLIP) undertaken for Havering Council services in 2010 to  | N/A                              | None required |

|  |  |  |                                   |  |  |
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|  | impacts (i.e. information sharing, workshop/seminars, etc.). |  | identify risks of climate change. |  |  |
|--|--|--|-----------------------------------|--|--|

## N. Improving borough preparedness for anticipated weather incidences and climate change

### Borough-wide resilience planning

|     | Action   | Lead               | 2013 status  | Target  | Budget source |
|-----|--|--------------------|--|---|---------------|
| n.1 | <p>Increase community engagement with the voluntary sector and community members to input into risk registers and identify resilience issues.</p> <p>Review Community resilience of warning and informing hard to reach sections of the community.</p> | Emergency Planning | <p>Contract with Red Cross increases capability for warning and informing the broader community.</p> <p>Proposed introduction of Flood Warden Volunteers to monitor and report flooding incidents for investigation by Flood Risk Engineer</p> | Work with HAVCO Volunteer Centre and Environment Agency to establish Volunteer Flood Warden scheme by March 2016. | None required |
| n.2 | Continue to ensure that the Major Emergency Plan (MEP) for the whole of the Borough, takes into consideration climate change scenarios and   | Emergency Planning | MEP response monitored and reviewed annually to ensure lessons from incidents considered and response amended is required.   | N/A   | None required |

|     |   |                    |  |     |               |
|-----|---|--------------------|--|-----|---------------|
|     | flood risk.   |                    |  |     |               |
| n.3 | Continue to review Borough risk register to ensure climate change related incidences are noted in the register.   | Emergency Planning | Risk Registers being reviewed with submission, on completion, to the Operational Risk management Group.  | N/A | None required |
| n.4 | Engage with London-wide and regional efforts on adaptation to climate change impacts with relation to flooding and water management.<br><br>Continue with the Defra Capacity Building Workshops which have identified roles and responsibilities for partners across the climate change and flooding arena. | Emergency Planning | <p>Havering represents North East London Councils on the London Risk Advisory Group as well as being part of the Group 5 with Redbridge, Barking &amp; Dagenham as part of the Drain London Project.</p> <p>Havering attends the Defra Capacity Building Workshops on various Flood and Water Management Act roles and responsibilities.</p> | N/A | None required |
| n.5 | Continue engagement with nature conservation groups in addressing impacts of climate change, exploring options for mitigation. (e.g. Havering Wildlife Partnership, Essex Wildlife Trust, Greater Thames Nature Improvement Area partners, Thames Estuary Local Nature                                      | Regeneration       |  | N/A | None required |

|     |  |  |   |     |                  |
|-----|--|--|---|-----|------------------|
|     | Partnership, etc.).  |  |   |     |                  |
| n.6 | Ensure design of developments, town centres and regeneration areas allow for resilience towards anticipated climate change impacts (e.g. flooding, extreme weather, heat waves, water shortage). | Regeneration<br>Development Planning<br>Development Management |   | N/A | External funding |
| n.7 | Continue to work with London partners to ensure that vulnerability to climate change impacts is incorporated into development plans and strategies relevant to Havering.                         | Development Planning<br>Regeneration                           | Strategic flood risk assessment being refreshed in conjunction with the EA and will inform new Havering Local Plan and emerging strategies. | N/A | None required    |

## Flooding

|     | Action  | Lead   | 2013 status  | Target   | Budget source |
|-----|---|--|--|--|---------------|
| n.8 | Continue to monitor and introduce responsibilities of the Flood and Water Management Act into day to day planning.<br><br>Identify and introduce better | Emergency Planning<br><br>Development Planning | Local Strategy completed and submitted to the EA for comment. Strategic flood risk assessment being refreshed. | Introduce Flood Risk Management Plan by December 2015. | None required |

|      |   |  |   |  |                                 |
|------|---|--|---|--|---------------------------------|
|      | flood management processes balanced with developmental and regeneration needs.  | Building Control   |   |  |                                 |
| n.9  | Continue monitoring of blocked culverts, recording flooding incidences and allocating funding for maintaining cleared culverts.<br><br>Monitor the flooding issues and rise of safety requirements alongside Hacton Lane and the Ingrebourne river. | Streetcare<br><br>Emergency Planning                     |   | Reduction in number of reports of flooding per heavy rain incident.<br><br>Reduction in flooding incidences along Hacton Lane & the Ingrebourne River. | None required                   |
| n.10 | Implement actions in Surface Water Management Plan (SWMP).  | Streetcare<br><br>Emergency Planning<br><br>Regeneration | Funding secured to deliver three schemes to reduce three flooding hotspots identified in the SWMP (2014-2017) | Completion of three flood mitigation schemes by March 2017.  | TfL LIP<br><br>External funding |
| n.11 | Continue to review the Borough-wide Flood Incident Plan in light of anticipated and historical climate impacts and potential weather incidences.  | Emergency Planning                                       | Multi agency flood response plan reviewed in 2012 prior to the Olympics, reviewed again in July 2013.         | N/A  | None required                   |
| n.12 | Establish and carry out responsibilities as Sustainable Urban Drainage  | Emergency Planning                                       | Meetings held to discuss responsibilities of SUDS approval body, to be established                            | SUDS approval body established in  | Existing Service Budgets        |

|      |   |                                      |  |  |  |
|------|---|--------------------------------------|--|--|--|
|      | Systems (SUDS) approval body.   | Development Management<br>Streetcare | as of April 2014.  | 2014/15.   | Department for Environment, Food & Rural Affairs |
| n.13 | Encourage Sustainable Urban Drainage systems and green roofs in pre-application meetings with developers.   | Development Management               |  | N/A  | None required                                    |
| n.14 | Continue to ensure flood risk measures are incorporated into development design where in flood risk areas (e.g. Sustainable Urban Drainage Systems – raised front doors, soakaways, green roofs).<br><br>Continue to consult on all relevant planning applications as per the Strategic Flood Risk Assessment for Havering. | Development Management<br>Streetcare | Development proposals in flood risk areas currently assessed in accordance with the Environment Agency Consultation Matrix and Standing Advice.<br><br>Strategic Flood Risk Assessment Level 1 refreshed January 2014. | N/A<br><br>Strategic Flood Risk Assessment Level 2 refreshed by December 2014. | None required                                    |

### Severe winter weather

|      | Action   | Lead          | 2013 status   | Target                          | Budget source |
|------|--|---------------|---|---------------------------------|---------------|
| n.15 | Draft a local Cold Weather Plan, taking into consideration | Public Health | The National Cold Weather Plan from Public Health England | A draft local Cold Weather Plan | None Required |

|      |   |  |   |  |   |
|------|---|--|---|--|---|
|      | Council's Fuel Poverty Strategy and initiatives undertaken to tackle fuel poverty   |  | (PHE) for 2013/14 was released 25th October 2013. Awaiting publication of the Cold Weather Plan for 2014/15, to be released in Autumn 2014. | written by September 2014.<br>Update once PHE National Cold Weather Plan published in Autumn 2014.   |   |
| n.16 | <p>Deliver Winter Plan and Cold Weather Plan, particularly to help vulnerable residents deal with cold snaps and heavy snow.</p> <p>Incorporate Council's fuel poverty measures into Winter Plan &amp; winter emergency response.</p> <p>Review and introduce new procedures within the Humanitarian Assistance arena learning from the Exercise Dunedin lessons and actions.</p> | <p>Public health</p> <p>Adult Social Care</p> <p>Emergency Planning</p> <p>Energy Strategy</p> | Service providers added to extreme weather alerts from Met Office (winter 2012).  | <p>Implementing local Cold Weather Plan by January 2015.</p> <p>Monitor winter requirements for Winter Plan on an annual basis.</p> <p>Complete review of Humanitarian Assistance by end 2014.</p> | <p>Existing Service budgets</p> <p>External funding</p> |
| n.17 | Continue working with both Category one and two   | Emergency Planning   | Established 'Cold Weather Befrienders' scheme with  | Deliver winter assistance and fuel   | Existing Service budgets                                |

|  |   |  |  |  |                         |
|--|---|--|--|--|-------------------------|
|  | <p>responders for Cold Weather Alerts in drafting and implementing plans to help residents with high vulnerability in winter.</p> <p>Promote available winter assistance and establish procedure for referrals from Council services and other organisations.</p> | <p>Adult Social Care<br/>Public Health<br/>Energy Strategy</p> | <p>HAVCO Volunteer Centre through Warm Homes Healthy People funding (2011 &amp; 2012).</p> <p>Established emergency cold weather support through British Red Cross' Help Not Hospital scheme (2012).</p> <p>Established emergency food hampers and additional meal provision for vulnerable residents during extreme winter weather spells, with Havering Meals on Wheels (2012).</p> <p>Initial scoping for local Cold Weather Plan undertaken (2011).</p> <p>Fuel Poverty Training delivered to front-line staff and volunteers to identify and support clients at risk of fuel poverty.</p> | <p>poverty support each winter, subject to funding.</p> <p>Reach over 1000 vulnerable residents each winter.</p> | <p>External funding</p> |
|--|---|--|--|--|-------------------------|



## Heatwaves and water shortage

|      | Action   | Lead   | 2013 status  | Target  | Budget source |
|------|--|--|--|---|---------------|
| n.18 | Support Social Care Commissioners to raise awareness about heat-related health risks among care home managers and staff.   | Adult Social Care  |  | Communications to relevant services and care sectors in spring each year. | None Required |
| n.19 | Ensure plans are in place to address the added impact of climate change on issues of disease, food safety, waste and climate-enhanced pandemics (e.g. avian flu), by the National Commissioning Board / Local Borough Resilience Forum | Public Health<br>Emergency Planning                      |  | Plans established by March 2015   |               |
| n.20 | Ensure national Heatwave Plan is circulated to relevant Services and care sectors for heatwave and summer preparedness.  | Emergency planning<br>Public Health<br>Adult Social Care |  | Circulation and communications in spring each year.                       | None Required |
| n.21 | Manage parks, green spaces, road verges and allotments with regard to climate change impacts.<br><br>Investigate options for creating 'in house'   | Parks Grounds Maintenance                                | Meadow areas of more than 50 hectares (6.5% of total area mowed by tractors) introduced to several parks, with just one cut per annum. | N/A   | None Required |

|      |   |   |  |   |                  |
|------|---|---|--|---|------------------|
|      | composting operation and alternative to use of seasonal bedding plants in amenity areas.  |   | Low watering regimes.  |   |                  |
| n.22 | Engage in the Mayor of London's Street Tree Initiative and other urban tree planting schemes, using the Right Trees for a Changing Climate database to determine the most appropriate trees. <sup>3</sup> | Streetcare<br>Regeneration<br>Culture & Leisure | 423 trees were planted in 2011/12, with over 600 trees planted in 2012/13 through urban tree-planting schemes.   | At least 300 trees planted per year in Havering through Council-led schemes. <sup>4</sup>           | External Funding |
| n.23 | Uphold the Mayor of London's water targets for residential development applications in the London Plan. <sup>5</sup>  | Development Management                          | Current London Plan requirements expect the design of residential developments to meet a target of 105 litres or less of mains water consumption per head per day. | All major development applications adhering to the current London Plan policy on water consumption. | None Required    |

<sup>3</sup> <http://www.righttrees4cc.org.uk/>

<sup>4</sup> It should be noted that this may not lead to an overall net increase in trees in the borough each year, depending on forest management practices and weather-related tree incidences to maintain the health of existing trees.

<sup>5</sup> Further Alterations to the London Plan, January 2014. Greater London Authority. <http://www.london.gov.uk/priorities/planning/london-plan>