

Woking Borough Council

Thinking Globally Acting Locally



Beacon application: **Tackling climate change**

**Information sheets for the Beacon
Assessment Team**



November 2007

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Welcome to Woking

Foreword

During your visit, we intend to demonstrate the approach that we have taken across our Borough to tackle climate change. We hope to show you how we have taken action in mitigation of factors that contribute to climate change, and made adaptations to prepare for the effects of climate change.

Our Climate Change Strategy has provided a politically and corporately supported foundation for action to address climate change locally. We hope to show you the impact that the strategy is having across Woking's community.

On the following pages, we have included examples of some of these actions. The projects have been selected because they:

- ☀ demonstrate where we have worked hard to raise awareness of climate change through community engagement and delivered results through this engagement
- ☀ demonstrate the importance of adapting to the inevitable impacts of climate change in the local area
- ☀ have required a high degree of innovative partnership working and have built capacity across the Borough's community to tackle climate change
- ☀ illustrate leadership by example, with the Council taking action to reduce emissions across its own estate and engaging its staff in this agenda
- ☀ recognise the need to engage the community in taking the Climate Change Strategy forward and to meet emissions reductions targets
- ☀ recognise the importance of addressing equality and diversity and social inclusion issues in acting on climate change.

This information pack provides examples of our work to tackle climate change. By its very nature, it is neither comprehensive nor exhaustive but it supports our full application for Beacon status and the outstanding recognition the Council has received through prestigious awards including the Queen's Award for Enterprise 2001 (Energy Services) and Beacon status for Energy Services 2005/2006 and for Promoting Sustainable Communities through the Planning Process 2007/2008. All these achievements are testimony to the Council's absolute and ongoing commitment to tackle climate change through leadership, and by example.

Please feel free to ask any questions that you may have.

We hope that you enjoy your visit.



**Councillor Anne Murray, Leader of the Executive
Woking Borough Council**

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Information sheet 1

The Hoe Valley Scheme – an example of climate change adaptation

The implementation of Woking Borough Council's Climate Change Strategy is resulting in practical actions to reduce emissions and adapt to unavoidable climate change.

Climate change is being considered in the development and implementation of all relevant strategies, plans and policies within the authority.

It is widely recognised that the climate is changing and adaptation is needed now. The Hoe Valley Scheme provides a robust example of climate change adaptation. Granted planning permission in April 2007, the scheme combines flood alleviation and tip reclamation.

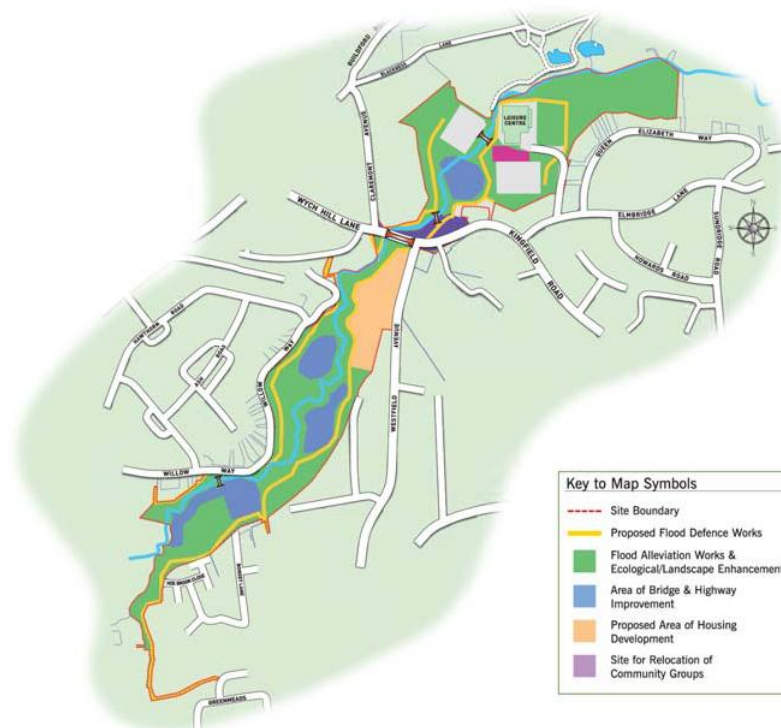
Managing and adapting to flood risks

The UK Climate Impacts Programme's 'Rising to the challenge' publication describes the effects of climate change on the South East of England. It suggests that river flooding will increase during the winter months due to wetter ground conditions and there will be an increase in daily rainfall totals of over 30mm.

Following extensive flooding in the Hoe Valley in autumn 2000, a report was commissioned by the Environment Agency to investigate the flooding which occurred and the possibility of providing flood defences and alleviation measures for residents at risk. The report concluded that the flood had an estimated return period of 15 years. Over 100 properties were affected and it was estimated that as many as 300 could be at risk of flooding for a more serious event with a one-in-100-year flood.



As part of a comprehensive Environmental Impact Assessment, Woking Borough Council commissioned a detailed feasibility investigation into a flood defence scheme to protect as many properties as possible in the Hoe Valley. This work has been undertaken in close consultation with the Environment Agency over the last three years, working to the latest development guidelines and standards.



The Council has concluded that a proposed housing development on the former Westfield Tip is the best means of providing most of the funding for the flood defence scheme. To pursue any new residential development, the flood defences had to be designed to protect against a one-in-100-year flood event plus an allowance of 20% for climate change and an additional 'free board'. This is in accordance with the requirements suggested in Planning Policy Guidance note 25 (PPG25) for development and flood risk.

The Council and the Environment Agency also required a model that demonstrated that the proposals did not increase the risk of flooding to any third party land owner, so predicted 100-year flood water levels had to be maintained or reduced on all land outside of the Borough's ownership both upstream and downstream of the proposal site.

The flood defence scheme will defend 198 existing homes, 63 gardens, 14 community buildings, 153 new homes and seven public roads all to the extreme one-in-100-year standard (including an allowance for climate change).

The scheme comprises a combination of landscaped earth bunds, architecturally enhanced flood defence walls, channel improvements, bridge improvements and replacement and provision of flood storage. The alignment of the defences has been designed to avoid sensitive features wherever possible and they range in height from 0.5 to 2.4 metres.

Some of the key features of the defence scheme also benefit the community in other ways.

- ☀ The construction of a new Elm Bridge on Kingfield Road will improve the flow of water in the Hoe Stream. The road will be widened and new pedestrian and cycle ways integrated within the construction.
- ☀ Replacement of the Woking Park access bridge to increase water flow capacity under the bridge will mean an improved load bearing capacity in this area.
- ☀ New flood storage areas will play a vital role in times of flood. These will take the form of landscaped ponds, wetland features and wildflower meadowland to be enjoyed both by members of the public and riverside wildlife during everyday flow conditions.

Contributing to the Council's key priorities

The Hoe Valley Project contributes towards all three of the Council's key priorities.

Decent and affordable housing

- ☀ Defends 198 existing local homes from flooding as per the Environment Agency's published flooding risk models.
- ☀ Provides a mixed residential development of some 153 new homes comprising 82 two and three bedroom houses and 71 apartments.
- ☀ May facilitate another 200 or so homes as an extension of the scheme on the neighbouring Woking Football Club site, subject to planning consent.
- ☀ Provides new homes with sustainable energy features wherever possible.



The environment

- ☀ Defends over 198 existing homes in Westfield and 14 community buildings from a one-in-100-year flood.
- ☀ Provides many new landscaping and environmental benefits.
- ☀ Remediate and renovates the former tip site.
- ☀ Improves pedestrian and cyclist facilities and traffic flows.
- ☀ Creates a bio-diverse wetlands area.
- ☀ Creates two miles of banking protection including attractive landscaped bunds over a mile long.
- ☀ Uses sustainable energy design features where practicable.
- ☀ Contributes to the Climate Change Strategy.



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Information sheet 1

Health and well-being

- ☀ Provides additional outdoor recreation facilities and leisure areas in Woking Park.
- ☀ Relocates ten community groups to improved premises e.g. the Boxing Club, the Guides, Army Cadets, Sea Cadets, Air Cadets and local Scouts.
- ☀ Creates three new play or kick-about areas for Westfield and Barnsbury children.
- ☀ Creates a publicly accessible wildlife wetlands reserve and increases the biodiversity of the area.
- ☀ Creates attractive walk and cycle ways running over three miles between Barnsbury and Westfield and the northern end of Woking Park – along the Hoe Stream.
- ☀ Re-vitalises almost 58 acres (23.5 hectares) of green leisure space for public use.
- ☀ Revitalises woodland areas and improves the landscape for leisure use.



Contributing to the Council's Climate Change Strategy objectives

The proposals for the Hoe Valley Scheme incorporate the following features:

- ☀ The new homes will be designed with a target sustainability rating of 5(*****) when measured against the criteria of the 'Code for Sustainable Homes.'
- ☀ The community buildings will be assessed against the BREEAM scheme with a 'very good' target rating.
- ☀ The total energy for the development will be provided by Woking's Community Energy Distribution System, providing 100% combined heat and power (CHP) generated electricity and heat.
- ☀ Photovoltaic cells are being incorporated into the residential development to generate electricity from solar energy.
- ☀ Rainwater from roofs will be harvested and reused in the development.
- ☀ At least 80% of the materials used in the construction of the buildings will be environmentally sound and 'A' rated from the Building Research Establishments' 'Green Guide'.
- ☀ Timber used in the development will be from sustainable managed sources.

Additional benefits

The Hoe Valley Scheme combines flood risk management measures with added health, ecology and leisure benefits.

The Hoe Stream is a Site of Nature Conservation Importance (SNCI), designated because of its flora and fauna and its various important habitats including wet grassland, ponds, broad-leaved secondary woodland and meadows. These form a valuable wildlife corridor that connects the south-west of the Borough with the east via the urban area. The Hoe Valley corridor also includes a number of associated SNCIs and two Local Nature Reserves at Mayford Meadows and White Rose Lane.

The scheme will provide a publicly accessible wildlife wetlands reserve and increase the biodiversity of the area. It includes attractive walk and cycle ways running between Barnsbury and Westfield and the northern end of Woking Park – along the Hoe Stream. It also opens up further woodlands in Woking Park. Almost 58 acres of green leisure space will be revitalised for public use.

The development of new 'wetlands' in the Hoe Stream floodplain area will be a significant opportunity to enhance wildlife, landscape and informal recreational opportunities in the area, while also achieving restoration of the former tip land and provision of additional flood plain capacity to help alleviate the future threat of flooding in the Westfield area.

Climate change adaptation projects in Woking

Protecting our heathland

The Borough comprises approximately 100 hectares of heathland and 22% coverage of secondary woodland. Heathland is a diminishing habitat and is facing a number of threats such as recreational pressures which can result in the disturbance of rare nesting birds, loss of habitat to invasive scrubland and threat of fire in a changing climate.

The Thames Basin Heaths Special Protection Area (SPA) was designated on 9 March 2005. It extends over 11 local authorities in Surrey, Berkshire and Hampshire and comprises a network of 13 Sites of Special Scientific Interest (SSSI) of predominantly lowland heathland and woodland.

The Thames Basin Heaths are identified as being of particular ecological value because of the range of species and the rarity of some of these. The presence of breeding populations of three bird species: Dartford warblers, woodlarks and nightjars is of particular note. These birds nest on or near the ground and, as a result, they are very susceptible to predation (particularly by cats but also foxes, gulls etc) and to disturbance from recreational use, especially dog walking. To mitigate the pressures on the heath, the Council has a Thames Basin Heaths SPA Interim Strategy. This looks at creating access to new recreational spaces to relieve pressure which arises from residential development in the vicinity of this heathland.

Scrub invasion is a problem heightened by increasingly warmer climates, and increased levels of CO₂ are understood to result in more rapid invasion of scrubland encroaching on species such as heather. These factors, combined with a longer growing season, have resulted in an invasion of grasses, bracken and birch. The adaptation response has been through key partners and funding of the Surrey Heathland Project to cut down the scrub through grazing of the heaths.

Another risk is the drying out of wet heathland. Wet heathland is becoming increasingly rare due to lower summer rainfall associated with the changing climate. By removing scrub, this reduces the competition for moisture. Sheets Heath has seen the creation of a new pond and wet heathland habitat.

Fire risk is one of the potential consequences of longer, drier and hotter seasons. The Surrey Heathland Project has seen the preparation of management plans to ensure improved fire protection measures e.g. fire breaks and the removal of scrub areas that are fire risks near to houses.

The Surrey Biodiversity Partnership and Surrey Heathland Project have been engaged in discussions in relation to the Borough's heathland and enhancing its resilience to climate change e.g. fire prevention and containment. Woking has also been at the forefront in developing a partnership with Natural England that has enabled a strategic approach to be developed to the mitigation of the impacts of recreation on the Borough's heathland. This will provide up to £1.5 million of funding for improvements in access to Woking's countryside that will draw people away from the most sensitive heathland habitats. As a result, the Borough's heathland, and its populations of internationally important bird and rare invertebrate species, will be more resilient to environmental pressures arising from climate change.



Woking Park pond restoration scheme

A comprehensive scheme to restore and enhance the two ponds at Woking Park was completed in 2005. The scheme was funded through a grant from the Surrey Sita Partnership, contributions from town centre developments and by the Council. It provides improved recreational amenities and contributes to a programme of ongoing works for flood alleviation in the Hoe Valley area.

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Information sheet 2

The scheme included:

- ☀ the removal of 300 tonnes of sediment
- ☀ the restoration of an existing dry pond to create a wildlife pond
- ☀ the enlargement and improvement of an existing ornamental pond with a viewing and seating area and a cascade feature. Water within the pond is recirculated over the cascade adding oxygen and improving the water quality. In times of high water levels, the cascade has up to ten metres of water flowing over it per hour
- ☀ the introduction of more native plants and trees
- ☀ the creation of a link between the two ponds
- ☀ improved water quality in both ponds.

The Hoe Valley experienced extreme flooding in autumn 2000. The pond restoration scheme includes increased flood storage capacity of the area adjacent to the Hoe Stream thanks to a water storage and recycling system. This also allows the water level of the ponds to be topped up during periods of drought and has been developed to re-use stored rainwater for the irrigation of the park's flower beds. Around 170 metres of specially engineered trench with a clay lining have been installed to help retain the water in the ponds and bring the water levels up. The ponds will be kept full using the 300 cubic metres of rainwater that is collected from the roof of the swimming pool and stored in a high-tech underground tank near the swimming pool.

The scheme included the planting of over 1,600 grasses, shrubs and ferns around the ponds with more than 1,200 aquatic plants reintroduced, enhancing the site's biodiversity. In order to protect the water-holding integrity of the newly restored ponds and aid establishment of new marginal plants, selective tree removal was carried out to increase levels of light reaching the pond margins and enhance the setting of the ponds.

Flood attenuation

In August 2006, properties in Barrs Lane, Woking, were flooded because the existing surface water system did not have capacity to deal with the intensity of surface water during a period of heavy rain.

To provide flood relief for these houses, Woking Borough Council has installed an attenuation area, which acts as a large storage space for overflow water from the drainage channel adjacent to the highway. Water that cannot be discharged through the small outlet pipe at the time of the storm flows over a spillway into the excavated area. Once drier conditions return, the water is then pumped into the system, emptying the storage area in preparation for the next period of heavy rain. The system has been put to effective use three times since its installation.



The excavated material has been used to landscape the surrounding area to create a more aesthetic profile.

Consultation took place with the residents and ward councillors prior to the works.

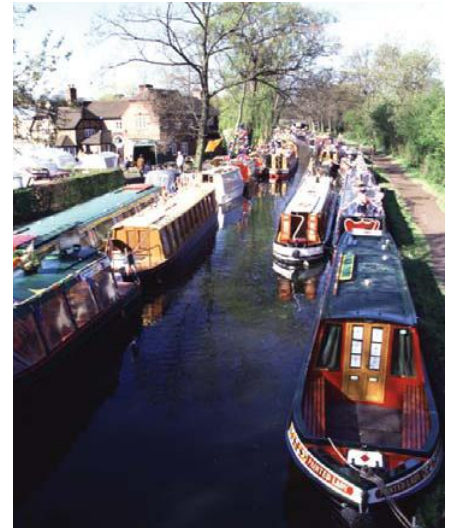
The residents affected have expressed their gratitude to the Council for the scheme and have said that they are certain that their properties would have been under water again if it had not been for the attenuation area.

Basingstoke Canal

The Basingstoke Canal is a major recreation and biodiversity asset and a SSSI because of its aquatic plant life and invertebrates e.g. dragon flies and damsel flies. In recent years, low annual rainfall has meant that the canal has had to be closed for boating over long periods in the summer months and the canal structure has deteriorated, with cracking and heaving of canal banks causing concern.

The Council has sought to actively engage in providing adaptation solutions to these challenges.

The canal has historically relied on spring water in Hampshire along with runoff from heathland for its water supply. Much of this riparian land (land alongside water courses) has been lost to development in the years since the canal was built in the 18th century. The consequence of this is that some of the water catchment area has also been lost.



New development alongside the canal has, in recent years, been encouraged to divert clean rainwater back into the canal. Examples of such developments include Century Court, Bridgewater Place, and The Lightbox. In addition, the Council has also part-funded the installation of a series of back-pumping schemes. For example, the back-pump at the Woodham Locks draws water from the bottom of the canal and pumps it back to the top of the locks. This enables water recycling around the canal. Other back-pumping schemes are now being supported by the Council e.g. at St Johns and Brookwood.

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Information sheet 3

Engaging the business community

Woking Borough Council recognises the important role that the local business community can play in both mitigation and adaptation to climate change. The Council has sought to develop partnerships with local service providers, experts and business networks in order to provide Woking's businesses with access to support and information to address climate change.

The Council signposts local businesses to these information sources through the 'Business in Woking' web pages on www.woking.gov.uk, the Council's contact centre, and Council publications such as 'Woking Magazine'. The current review of the Climate Change Strategy has accounted for the need to involve local businesses in the strategy, so will include a new 'Business' theme. A representative from Woking Chamber of Trade and Commerce was invited to join the Climate Change Working Group in 2007, in order to represent Woking's business community in discussions regarding the development and implementation of the strategy.

An innovative partnership with Woking Chamber of Trade and Commerce

Woking Borough Council has supported an exciting partnership led by Woking Chamber of Trade and Commerce, also involving Surrey County Council, Business Link Surrey and Woking Local Agenda 21. The partnership set out to develop a programme to raise awareness of sustainability, climate change and environmental management issues amongst local businesses during 2006 and 2007. The partnership established a sub group which has met monthly to take these objectives forward.

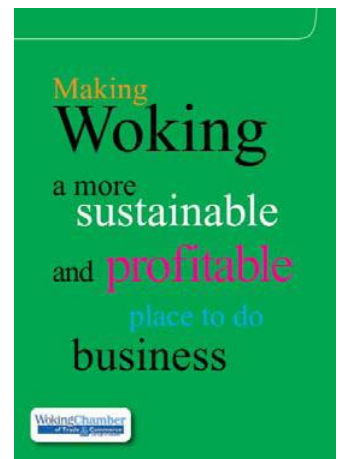
The programme commenced in November 2006 with a Breakfast Meeting for local businesses regarding environmental management systems, involving a presentation from Envirowise. This was followed by a second Breakfast Meeting in May 2007 when the Environment Agency spoke to delegates regarding sustainable waste management and environmental regulations. Both meetings attracted more than 40 delegates from local businesses.

The partnership has recently celebrated the launch of 'Making Woking a more sustainable and profitable place to do business'. This guide provides Woking's business community with an introduction to running a green business and a reference outline of current environmental legislation and responsibilities for the future. The guide was sponsored by Woking Borough Council, Surrey County Council and Envirowise. The publication was launched in October 2007 at the 'Woking Means Business' exhibition. The guide has been posted to members of the Chamber and placed on the Woking Chamber website. The partnership intends to meet again in January 2008 to consider how to build on this success.

Working with Business Link Surrey

Woking Borough Council supports Business Link Surrey by signposting local businesses to the Sustainable Business Service. The Council is in regular contact with Business Link's Sustainable Business Adviser, and promotes relevant activities and events through the contact centre and the www.woking.gov.uk website. One upcoming example is Business Link's free 'Marketing your Green Credentials' seminar in Woking on 18 December 2007. The service provides local businesses with access to assistance which can help them to address mitigation and adaptation to climate change and other sustainability issues.

Business Link's Sustainable Business Service can help businesses become more sustainable by assisting them to reduce costs, see how operating in a more sustainable manner will help them find more customers, and understand how environmental legislation affects their business.



The service is delivered on the ground by a Sustainable Business Adviser located at Business Link Surrey's headquarters in Woking. Business Link's brokerage role is to refer customers to specialist partners, suppliers and support providers. The Sustainable Business Service is free and many of its brokerage partners' services are also free.

The service also includes proactive campaigns to reach key sectors such as care, tourism, and construction and to assist start up companies providing environmental goods and services. Broader reach campaigns focus on issues such as resource efficiency, social responsibility and climate change.

The service focuses on two main areas – resource efficiency and social responsibility. Businesses are encouraged to tackle these issues for sustainability and profitability reasons.

- ☀ By addressing resource efficiency, customers can find ways to save money and increase profits.
- ☀ By addressing social responsibility, companies can improve staff retention, raise their profile in the community, and support the local economy.
- ☀ The Sustainable Business Service can also help companies comply with legislation that stems from both resource efficiency and social responsibility issues.

Business in the Community

In March 2007, the Council hosted an event for Business in the Community (BITC). The event, which was attended by HRH The Prince of Wales, the President of BITC, sought to showcase local authority and business examples of climate change action, and included a seminar which used local authority and business case studies from Woking Borough Council, Shropshire County Council, Cornwall Sustainable Energy Partnership and Marks and Spencer.



The visit also saw the launch of a touring exhibition by the British Council of Shopping Centres and BITC at the Peacocks Shopping Centre in Woking. 'The Exhibition', sponsored by BSkyB and in association with The Climate Group, is now touring shopping centres up and down the country and uses a series of interactive and information displays on various climate change and sustainability themes.



Engaging with Woking Asian Business Forum



The Woking Asian Business Forum (WABF) has recently been formed to encourage and support the development of Asian businesses in the Borough. The forum is keen to ensure that Asian businesses are successful and that they explore opportunities within mainstream business activities.



WABF intends to identify Asian businesses with potential and provide them with the support services they need in order to develop and grow. Close co-operation with agencies such as Business Link, SEEDA, Woking Chamber of Commerce, Surrey Chamber of Commerce, Learning and Skills Council, Woking Borough Council and the local Asian business community are expected to play an important part in this initiative. The Council is keen to engage with the forum to provide information and support on tackling climate change.

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Information sheet 4

Working with schools

Under the theme of **'Education and promotion'**, Woking Borough Council's Climate Change Strategy includes an action to identify opportunities to work with schools and educate school communities regarding climate change. The Council has facilitated a range of activities to address this aim.

The Green Education Task Group

The Council's Environmental Overview and Scrutiny Committee convened the **Green Education Task Group** in 2005, with a specific remit to consider and develop strategic proposals to further education regarding climate change within the Borough's schools.

The task group reported its findings to the Council's Executive Committee in 2006, where it was agreed that provisions would be made within the Thamesway Business Plan to resource educational programmes, in consultation with the Climate Change Working Group. This provides the Council with resources and a remit to develop further partnerships and initiatives with schools to address climate change.

Promotion of Eco Schools

The Climate Change Working Group identified the **ENCAMS 'Eco Schools' Scheme** as an effective model for delivering and embedding climate change issues within primary and secondary schools. In partnership with Surrey County Council, all schools in the Borough were contacted in 2004. Schools were encouraged to sign up to the programme and to access support that was available through a range of local agencies. To date, 10 of 39 schools in the Borough have achieved at least the 'bronze' Eco Schools award, with Oaktree Infant School having achieved the coveted 'Green Flag'.



The ChangeLAB initiative

An exciting partnership project was set up in 2006 as part of the European ChangeLAB (**Changing Lifestyles and Behaviours**) initiative. This seeks to transfer projects that have successfully influenced behaviour in EU member countries. One such initiative was 'The Wishing District' where schools in The Netherlands had worked with local decision makers to raise local awareness about particular issues. A partnership involving Woking Borough Council, Surrey County Council, Woking Local Agenda 21, Three Valleys Water and Byfleet Primary School was set up to deliver 'The Surrey Water Project'. The initiative delivered a range of outcomes for Byfleet and the wider community.



- ☀ Three Valleys Water delivered several **lessons on water conservation**, setting out the links to climate change, and engaging children in the subject.
- ☀ A **'sign-up' day** was held, where the school and local decision makers signed pledges to demonstrate their commitment to the project.
- ☀ The school children developed a **local poster campaign** to raise community awareness of the need to save water. The school engaged the **local press and radio** in order to spread messages from the project more widely. The project culminated with a successful and well attended **exhibition** in Byfleet Village Hall. The children displayed their learning from the project, and set up stands to help local residents to understand the implications of water consumption.
- ☀ A **CD-Rom video and photographic case study** was funded by the project partners. This was produced in July 2007, to demonstrate the positive outcomes from the project and encourage other local schools to pursue similar projects.

Neighbourhood Team initiatives

The Council's Neighbourhood Team has a range of responsibilities for managing and enhancing the local environment. It has engaged with schools on several occasions to deliver these objectives.

- ☀ In 2005, all schools in the Borough were offered an assembly regarding waste and litter issues. This offer was accepted by nine schools.
- ☀ The Council rolled-out the kerbside recycling scheme to schools in 2006. **The Neighbourhood Team has since implemented recycling collections in 41 educational establishments in the Borough.** This was facilitated through provision of appropriate containers and educational materials. This service is now contributing significantly to the Council's overall recycling performance. The team works in partnership with waste disposal contractor, Surrey Waste Management, to make waste and recycling themed assemblies available to schools throughout the year. The team plans to deliver ten of these assemblies during the course of the autumn 2007 school term.
- ☀ In 2006 and again in 2007, the Neighbourhood Team participated in 'Junior Citizen'. This is an event which brings together a range of local agencies to communicate key social and environmental issues. This is made available to all local year six primary school children over the course of a week. In 2007, the event was attended by more than one thousand local children.



Working with specific schools

A number of schools in the Borough have taken a particularly proactive stance towards tackling climate change issues. Woking Borough Council Officers and Councillors have sought to support these schools wherever possible.

- ☀ **Oaktree Infant School** in St Johns has made exceptional progress in educating the school community about climate change issues and reducing its own carbon footprint. The Council's Shadow Portfolio Holder for Environment and Sustainability sits on the Schools Eco-Committee.
- ☀ **Woking High School's 'Eco-Team'** of pupils, teachers and governors has achieved significant environmental improvements, particularly with regard to reducing energy consumption. Council Officers facilitated an audit from The Carbon Trust, which has provided the school with clear directions for delivering improvements.



At the October 2007 '**Keen to be Green Exhibition**', Oaktree School and Woking High were recognised for their work to tackle climate change, and both schools were invited to make presentations at the event, and to receive an award of £500, sponsored by the Chartered Institute of Building Surrey Centre. The institute has expressed support for the arrangement of a competition involving all schools in the Borough, in time for the next 'Keen to be Green' event in 2009.

The Council supported participants in the **Cut-The Carbon March** which passed through Woking on 22 September 2007. Barnsbury Junior School displayed their 'Carbon Footprints' work to the participants (which can be seen today) and Councillors welcomed the march to Woking Town Centre.

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Information sheet 5

Woking Local Agenda 21

Woking's Local Agenda 21 (LA21) initiative has succeeded in translating the community's aspirations for a more sustainable Woking into a range of practical and community-led initiatives.

LA21 has delivered a range of successful projects, many with clear, tangible outcomes, and it has made a major contribution to the Council's Climate Change agenda, particularly with regard to engagement with the community.



BUILDING A SUSTAINABLE COMMUNITY

Council support for LA21

The Council supports the LA21 Group in a number of ways.

A Woking Borough Council Officer provides a basic level of **administrative support to the Chair of LA21 and the LA21 Steering Group**. This enables LA21 to undertake large communications, organise public events, and manage communications with the wider community. When scoping, developing and delivering particular projects, LA21 Members are expected to take full ownership of the initiative, and to take responsibility for the work.

The Council has used Committee 'Provision For Flexibility' monies to provide financial backing to LA21 projects that are agreeable to the Council. LA21 is expected to formally approach the Council to request release of this money, and the Council has put processes in place to ensure appropriate sign-off from Members and Officers. A sum of £20,000 was designated in 1999. This was used to deliver the Gardening For Life, Green Pages, and Greener Homes projects. The funding provision has **enabled LA21 to source match funding** for the projects from sources such as National Lottery, and Landfill Tax funding schemes. The Council's Executive Committee resolved to allocate a further £20,000 to LA21 in September 2007.

An important contributor to the success of LA21 has been the on-going dialogue between LA21, Council Officers and Councillors. **This dialogue is facilitated through the quarterly LA21 Liaison Group**. This group comprises Councillors from the main political parties, a number of Officers from relevant Council service areas, a County Council representative, and community members of the LA21 Steering Group. This meeting is an opportunity for feedback and discussion between the Council and the community, and has been the catalyst for a number of successful projects. This group ensures that the Council is aware of and supportive towards LA21 work, and vice versa. LA21 is also represented on the Council's Climate Change Working Group, which gives the group significant input to the development of the Climate Change Strategy.

LA21's successful projects and initiatives

LA21 volunteers have developed a range of projects which they can be proud of, and have made real contributions to promoting a sustainable Woking. The initiatives have required significant volunteer resources and successful partnership working.

Greener Homes

LA21 developed Greener Homes in 2005, as a guide to environmentally sound home improvements and renovations. The hard-copy and Internet versions of the guide were given a high-profile local launch. Jonathon Porritt (Chair of the Sustainable Development Commission) stated: "I think Greener Homes is really excellent. It succeeds in setting the wider context, and then offering very practical and clear advice as to how people can start to make their homes so much more environment friendly."

The project has also attracted positive feedback from an online form posted on the Greener Homes Internet page.



Gardening For Life

This is one of LA21's long-term and successful initiatives. Gardening For Life uses surveys, newsletters, events and demonstrations to educate the community about sustainable gardening practices which will aid wildlife, and account for a changing climate. LA21 has distributed comparable surveys which have demonstrated that Woking residents are more environmentally conscious with their gardening in 2007, when compared with results dating back to 1999.



Green Pages

Woking Green Pages was developed by LA21 in 2002 as a guide to local sustainable living. The guide was distributed to all householders in the Borough (around 39,000 addresses) and is kept up-to-date by LA21 through an Internet version. LA21 undertook a survey of their local contacts to seek feedback about the guide in 2003. There were 62 responses to a postal questionnaire which were very positive, with 86% of respondents stating that they would recommend Woking Green Pages to others.



Public meetings

LA21 organises at least two public meetings per year. Several of these have addressed mitigation and adaptation to climate change in recent years, and have attracted attendances in excess of 100 local residents.

- ☀ **Extreme Weather Event 2004** – Woking Borough Council, the Environment Agency and Three Valleys Water described the need for Woking's local authorities, business and community groups to adapt to extreme weather events resulting from climate change.
- ☀ **Climate Change Science Event 2006** – The Met Office's Hadley Centre described the extent to which Woking residents would be likely to need to adapt to climate change in the future.
- ☀ **Water Efficiency Event 2007** – Waterwise and Three Valleys Water described possible modifications to the home and garden to address future shortages of water.



LA21 newsletter

LA21 has built up a list of more than 1,000 local contacts who actively engage in LA21 projects and events. LA21 volunteers produce a newsletter that is mailed to contacts to keep the community up-to-date with current issues and work. The distribution of the newsletter has been cut to one paper edition per year. This has been possible through LA21's work to co-ordinate and maintain Internet pages on the 'Window on Woking' community website (www.windowonwoking.org.uk).

LA21's current projects

LA21 continues to put forward ideas for innovative projects that will engage the community in climate change issues, and support the Council's aspirations to educate and promote mitigation and adaptation to climate change.

Keen To Be Green

LA21 and Woking Borough Council worked with the Chartered Institute of Building (CIOB) Surrey Centre to arrange an environmental exhibition in Woking Town Centre in October 2007. The exhibition brought together expertise from the CIOB's membership and the local area, to provide 14 separate exhibition stands, with seminars from CIOB running concurrently. The event sought to educate the general public regarding the opportunities to pursue more sustainable living, with particular emphasis on the built environment. All exhibitors were asked to complete a feedback form after the event. Results were very positive, with **100% of exhibitors stating that the event was of benefit to themselves and the public.** CIOB has proposed a follow-up event in spring 2009, to replicate Keen to be Green on a larger scale. This will enable the continuation of the partnership between the Institute, LA21 and the Council.



Energy meters

Following discussions at a meeting of the Climate Change Working Group in 2007, LA21 tested a selection of Energy Consumption Meters in order to establish the potential use of such meters to engage the community in saving energy. LA21 identified a preferred meter, and is currently piloting its use amongst LA21 contacts. Those involved in the pilot are being asked to feed back their findings from using the energy meter regarding energy savings identified, and to provide suggestions that will help to shape a wider promotion of Energy Meters across Woking in 2008.



The Carbon Diet

LA21 is working with a local programmer to test and develop a new concept in online carbon calculators called 'The Carbon Diet'. This Internet site enables users to accurately track their carbon footprint over time, and to use the site for networking and to build contacts with other users. The site is built around an idea where users enter their resource use data regularly, and compare their findings with other users. The Carbon Diet also provides users with practical suggestions for cutting their carbon footprint, based around the information that has been entered. A test-network has been established amongst LA21 contacts, which will provide feedback to improve and develop the Carbon Diet, with a view to promoting the project more widely in 2008.



Beacon application: Tackling climate change

Information sheet 6

Communicating climate change

Woking Borough Council has recognised the importance of communicating the need for local action to tackle climate change. The Council referenced this need through a range of Climate Change Strategy Actions, which aim to send clear messages to a range of audiences including Council staff, residents, schools, developers, and suppliers.

Communicating with Council staff

The Council aims to lead by example and inspire groups and individuals to take action to address climate change. There is a need for all Council staff to be engaged in climate change as an issue, and to be able to communicate this across the community. Several initiatives have been undertaken to encourage staff to embrace the climate change and sustainability agenda.

Themes of a sustainable Woking

Sustainability is high on the Council's agenda as a cross-cutting issue. Sustainability has been integrated across corporate activity through a variety of checklists and processes, based around a set of '16 Sustainability Themes' which cover a comprehensive range of environmental, economic and social aspirations. 'Factors that contribute to Climate Change' is one of these themes. Guidance has been developed for staff to undertake sustainability appraisals for projects, procurement activity, performance management, committee reports and service planning. The Council's approach has been recognised as good practice by the Chartered Institute of Public Finance and Accountancy (CIPFA) in the 2006 publication 'Sustainability: A Reporting Framework for the Public Services'.

In 2007, Woking Borough Council was nominated as the 'Surrey Exemplar Council for Sustainable Procurement' by South East Centre of Excellence (SECE) and is participating in a regional sustainable procurement project with SECE and eight other Exemplar Councils from the south east region.

The Staff Transport Plan

The key aim of the Staff Transport Plan is to reduce Carbon Dioxide (CO₂) emissions that result from staff travelling to and from work and when undertaking travel on Council business.

Following a review and staff survey, a series of new measures have been introduced in 2007 to continue the progress already made, and to encourage further staff participation. A series of targets have been agreed by the Council to enable the progress of the plan to be measured. Transport Plan initiatives include accessible flexible working policies, cycling incentives, journey planning assistance, public transport ticket loans and discounts, and membership of a car share network (through a Local Public Service Agreement project). The Council's HR team will be implementing a number of changes to the leased car scheme and the payment of mileage allowance for journeys undertaken on Council business. These changes will directly benefit staff who choose more environmentally preferable modes of travel.

The Council is currently in the process of procuring a Car Club operation for Woking Town Centre. The Car Club will use low-carbon vehicles, and will be the principal means for Council Officers to access car travel for business journeys from April 2008. The Transport Plan is promoted through hard copy and Intranet-based literature, supported by regular promotions covering particular aspects of the plan. A staff survey will be carried out bi-annually in order to monitor progress towards targets and capture staff feedback.



Message in a Green Bottle

The Council produces a staff newsletter which is distributed to all employees five times a year. 'Message in a Green Bottle' was established in 2006 and is a column which gives staff the opportunity to pose questions about any environmental issue. Staff can submit their questions via email, or by leaving their questions in a green bottle situated in the Civic Offices. Questions have included issues such as energy efficient light bulbs, washable nappies and the sustainability of biscuits!



Communicating with residents

The Council has taken steps to communicate climate change issues to residents through a range of media and projects, often involving innovative partnership working.

Woking Solar Frontier (WSF)

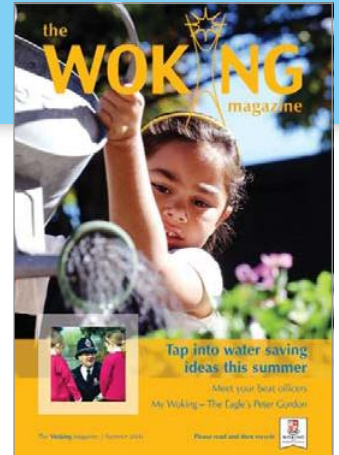
Woking Solar Frontier is delivered in partnership with the Energy Centre for Sustainable Communities (ECSC). Launched in January 2007, WSF encourages residents of Woking to make energy saving improvements to their homes and to help make the Borough a pioneering low carbon community.

Through the scheme, householders in the Borough have access to a free, expert advice service which can provide guidance on a wide range of energy saving issues and measures. Furthermore, for those who are interested in making improvements to their home, the Woking Solar Frontier can refer homeowners on to a network of trusted, vetted installers who can provide a very high level of service at fair, monitored prices.

The project also aims to encourage dialogue between residents who are interested in solar water heating and those who have already installed the technology through a number of events in the local community and open home days. WSF places an emphasis on community involvement. Verbal advice provided by trained energy advisors is shown to have a greater impact than simply distributing literature (hence the emphasis on this type of advice by the Energy Saving Trust). Over the course of the project, WSF advisors have been present at a number of events including Woking Uncovered, Woking Means Business, the Pyrford and Wisley Flower Show, CIOB 'Keen to be Green' and a number of standalone engagement events in town centre areas.



With the support of the Local Agenda 21 Group, WSF has run a number of Open Home Days. These events allow those in Woking with an interest in solar water heating to visit properties with the technology installed and speak with the owners. Encouraging community interactions such as these helps to lay the foundations of a low carbon community and encourage new networks between residents.



Woking Magazine

The Council's quarterly Woking Magazine has been an important channel for communicating climate change issues to local residents. The magazine is distributed to every household in the Borough, so is an excellent vehicle for engaging with residents (some 39,000 households). Council Officers and partners have written informative articles about a diverse set of climate change issues and solutions, including energy efficiency, light pollution, the Freecycle network, cycle routes, and green gardening.

Go Green Woking

Woking Borough Council has supported the Woking News and Mail's weekly 'Go Green Woking' column. This was established by the News and Mail to demonstrate how climate change issues are being tackled locally, and show readers how they can make their own contributions to mitigating and adapting to climate change.



The Council provides information and contacts to the News and Mail to help make the column a regular feature of the newspaper. Woking News and Mail is a paid-for local newspaper with a local circulation of more than 9,000 copies per week. 'Go Green' has included articles about food miles, landfill sites, renewable energy, allotments, stand-by culture and carbon management. The articles are also available on the Woking News and Mail website.

Waste prevention

Woking's Climate Change Strategy recognises the relevance of sustainable waste management to climate change, and has placed high importance on the promotion of 'waste prevention'. The Council's Local Services Team communicates regularly with residents regarding waste and recycling collections. Communications include annual calendars, local press advertisements and exhibition stands. These provide an opportunity to promote waste prevention schemes that the Council has established.



The Council has facilitated the distribution of more than 3,400 wormeries and composters to Woking households since 2005. October 2007 saw the commencement of a trial reusable nappy pack promotion scheme with Surrey Real Nappy Network, which will further continue to contribute to this objective.

Planet Woking

The Planet Woking web pages are a central source of information on climate change issues for Woking residents, and are just one click from the www.woking.gov.uk homepage.

The area includes information about the Climate Change Strategy, Woking's green initiatives, the Council's approach to sustainability, details of key environmental services, links to Woking Local Agenda 21 and the latest environmental news. The Planet Woking area regularly receives in excess of 800 unique visitors per month. The structure and content of the pages are currently being revised as part of the Council's review of its website.

Climate Change Strategy Review

Woking Borough Council's Climate Change Strategy was adopted in December 2002 and published in March 2003. The first update was carried out in March 2005. It is now necessary to refresh the strategy and engage more widely with a better informed base of consultees.

There has been significant progress since the strategy was first adopted both in terms of local activities and national policy development. The revised strategy will take account of this.

The updated strategy will introduce three new themes reflecting the wish to expand and strengthen Woking Borough Council's approach to mitigation and adaptation. These three new themes will be as follows.

Water

Reducing water consumption and improving water efficiency will be the focus of this theme together with how the Council can help in achieving local and regional water consumption reduction. This will look at how the Council can extend its community leadership role in encouraging and advising the Borough's residents and businesses to 'do their bit' to meet local and regional targets for reducing consumption. Three Valleys Water and Waterwise have agreed to support the development of this theme.

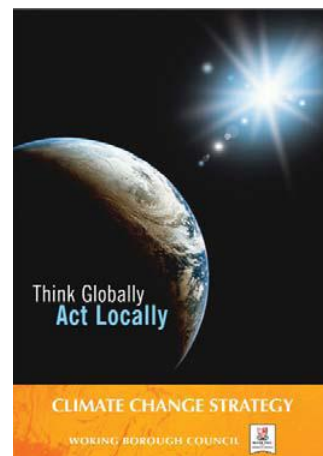
Community

The Council has demonstrated leadership by example in reducing carbon emissions and developing an adaptation strategy for its own operations. In refreshing the strategy, the Council would like to introduce a theme for the community, to support residents and community groups to play their part in tackling climate change. The theme will be informed by views of residents and community groups. Focus groups and surveys have already sought to gauge what residents currently do to tackle climate change, what they feel the barriers are to doing more and what the theme could include to help them.

Business

Helping the business community within Woking to tackle climate change will be the focus of this theme. We will be working closely with Business Link and Woking Chamber of Trade and Commerce to develop the theme and offer guidance and support for Woking's businesses to play their part. Initial discussions have been held with Business Link on scoping the theme. An exhibition stand was placed at the 'Woking Means Business' exhibition to raise awareness of the Climate Change Strategy and its review.

The Council is looking forward to engaging with the Asian Business Forum which has recently been formed to help promote, encourage and support the development of Asian businesses in the Borough.



Timetable for Woking Borough Council's revised Climate Change Strategy

July 2007	Discussions with LGA Climate Change Commission and Sustainable Development Commission
Early August 2007	Futerra – Review of stakeholders and objectives of review
18 September 2007	Climate Change Working Group meeting – to receive programme of review and Futerra results
September – mid October 2007	Consultation with stakeholders
November 2007	Woking Forum consultation through online survey
November – December 2007	Evaluation of results
6 December 2007	Climate Change Working Group meeting – to receive results of consultation
December 2007 – March 2008	Draft updated strategy incorporating feedback received through consultation
Late February/early March 2008	Climate Change Working Group meeting to approve draft strategy
3 April 2008	Executive Meeting to approve revised strategy
17 April 2008	Council Meeting to adopt revised strategy

Woking Borough Council officers met with members of the LGA Climate Change Commission in July 2007 to discuss the ambitions of the reviewed strategy and how this fits with the Commission's vision for an improved local government response to climate change.

Advice was also sought from the Sustainable Development Commission to ensure that the revised strategy takes account of latest Government thinking.

Working with Futerra

Futerra is an organisation with expertise in sustainability communications. It has managed a wide range of communication work for a variety of clients. The Council enlisted the help of Futerra to help with the consultation to inform the updated strategy.



Due to the comprehensive nature of the Climate Change Strategy and the wish to strengthen this going forward, a wide base of consultees was necessary. To address this, a menu of different consultation approaches was required.

Futerra was asked to:

- ☀ review a list of existing stakeholders and objectives for the review
- ☀ provide recommendations on how to carry out consultation on the strategy and engage with stakeholders in the most effective way.

Futerra began by reviewing the stakeholders considered relevant to the review of the Council's Climate Change Strategy. This included stakeholders specific to the Council, those consulted for other climate change strategies (including the Barker Review, the Stern Review and a number of other local government climate change strategy consultations) and others from Futerra's knowledge of the sustainable development sector. The stakeholders were categorised using various criteria including strategic themes in Woking's current strategy, engagement objectives, zone of influence and engagement intensity in order to decide how best to engage with any given group.

Futerra then went on to recommend how the Council should engage with its stakeholders whilst taking account of resource and budget considerations.

The following engagement methods were adopted:

- ☀ letters
- ☀ surveys
- ☀ focus groups
- ☀ private meetings
- ☀ website.

Consultation carried out to date

Focus groups:

- ☀ Youth Council
- ☀ Woking Local Agenda 21
- ☀ Community Groups
- ☀ Citizens' Panel

Some of the comments raised during the focus groups:

How do you feel about climate change?

- ☀ "Action can be taken locally, nationally, individually and internationally."
- ☀ "We can all play some part in reducing it."
- ☀ "It's worrying, I'm extremely concerned."
- ☀ "Climate change presents a huge opportunity to pull together to solve a problem and to learn a lesson on how to live within limited resources."

What would you like to see included in the Community theme?

- ☀ "Include talks on climate change and environmental issues during PSHE lessons at school."
- ☀ "Distribute copies of the Climate Change Strategy to schools."
- ☀ "Develop 'local' networks serving Woking e.g. car clubs, CHP, food."
- ☀ "We should identify visions of what a community would look like if we were on a path to responding to climate change."

Feedback on the Climate Change Strategy from the following stakeholders:

- ☀ Councillors
- ☀ LA21
- ☀ Woking Friends of the Earth
- ☀ South East Climate Change Partnership
- ☀ SEERA
- ☀ Housing Corporation
- ☀ Business Link
- ☀ Three Valleys Water
- ☀ WAVS
- ☀ Surrey County Council
- ☀ TCPA

Some of the comments raised by stakeholders:

- ☀ "It is important to recognise that climate science has moved on considerably since the Climate Change Strategy was written, and since the Royal Commission on Environmental Pollution drew up the targets in 2000. The 60% CO₂ reduction target by 2050 was established when it was thought that CO₂ levels of 550 parts per million would keep us within the 2°C rise. There is now a strong scientific case that, in the UK, we should be aiming for at least an 80% reduction in CO₂ emissions by 2050."
- ☀ "We support Woking's proposals on land use and planning. In addition, we would stress that both new developments and existing housing and infrastructure need to be 'climate proofed' as far as possible for the expected conditions."
- ☀ "Promote education and public information, especially aimed at young people to encourage a cultural shift."

Raising awareness

Exhibition stands were installed at two events during October 2007 in order to raise awareness of the Council's climate change and sustainability work.

'Woking Means Business' is a networking event for local businesses wishing to develop and grow, sponsored by Woking Borough Council and Business Link.

Woking Borough Council and Woking LA21 supported the Chartered Institute of Building (CIOB) Surrey Centre to host a public event in Woking Town Centre on 27 October 2007. The purpose of the event was to stimulate interest in environmentally friendly solutions, particularly within the home. There were exhibition stands from CIOB, Woking Borough Council, LA21, the Energy Centre for Sustainable Communities, Surrey Waste Management and a range of trade organisations specialising in renewable energy, sustainable refurbishments, and environmentally friendly buildings and construction.



Question time

At each of the focus groups and at exhibition opportunities the Council surveyed participants on attitudes towards climate change and what action they have taken to play their part in tackling climate change. Information was also sought on perceived barriers to doing more and how the Council can help. As at the end of October, over 100 surveys were completed. The results will be fed into the revised Climate Change Strategy. So far, key messages include the following.

- ☀ 93% agreed / agreed strongly that climate change is happening.
- ☀ 50% have changed their lifestyle a little to reduce their CO₂ emissions.
- ☀ 41% have changed their lifestyle significantly to reduce their CO₂ emissions.
- ☀ Cost and lack of funding were perceived as the biggest barriers to tackling climate change with 53% and 36% selecting these respectively.
- ☀ The Council can help by signposting to general information (42%), signposting to advice (34%) and providing information on accredited installers and suppliers of energy efficiency measures (54%).



During November 2007, further survey consultation is being carried out through the Woking Forum 'Engage with Us' facility on the Council's website.

Addressing equality and diversity

The Climate Change Strategy review is monitored as a project through the Council's project management system 'Work.Together'. As the review progresses, an Equalities Impact Assessment will be completed. The purpose of the assessment is to improve the work of the Council by making sure it does not discriminate against any individual or group and that, where possible, it promotes equality. The assessment is important in making sure that individuals and teams think carefully about the likely impact of their work on people in Woking and take action to improve strategies, policies, services and projects, where appropriate.

Based on good practice the Council has defined equality target groups as:

- ☀ women
- ☀ ethnic minorities, including gypsies and travellers
- ☀ disabled people
- ☀ lesbians, gay men, bisexuals or trans people
- ☀ older people (50+)
- ☀ young people (16 to 25)
- ☀ people from different faith groups.

To date, the consultation exercise around the strategy review has positively engaged with young people through the Youth Council and with ethnic minorities, older people and people from different faith groups through the community focus group. The surveys that have been carried out have included monitoring information on age, gender, sexuality, race, disability, and belief. This will further the Council's work to ensure that it is providing quality services that meet the needs of and are accessible to all sections of the community and will help to identify which groups are under-represented within our service users.

Woking People of Faith Forum

Woking People of Faith Forum is a new, exciting initiative led by members of the Borough's different faith organisations and individuals. It is a charitable organisation overseen by a group of trustees and a management committee with representatives from different faiths. The group is supported by Woking Borough Council.



The forum believes that, by working together on practical community issues and lobbying government agencies to help those in greatest need, a more cohesive society for the benefit of all the people living in the Borough of Woking can be created.

Woking People of Faith aims to promote religious and cultural harmony for the benefit of all the people residing in the Borough by:

- ☀ educating the public in different religious beliefs and cultures, including awareness of their distinctive features as well as their common ground, for improved relations between people
- ☀ celebrating the important contribution that religious faith makes to the lives of the local community
- ☀ securing a more prominent role for faith organisations in the regeneration of their communities by participating in the delivery of the Borough's neighbourhood initiatives
- ☀ providing a platform for sharing knowledge, resources and good practice
- ☀ addressing issues of ignorance and prejudice to improve the quality of life of all the people of the Borough, particularly the socially excluded.

Climate change is a community issue, common to all faiths. This is why it was felt important to consult the Woking People of Faith as part of the community group consultation for the revised Climate Change Strategy.

In September 2007, a presentation of the Council's climate change work was given to a meeting of the forum. This served to raise awareness of the work and the important contribution that the group could make in terms of taking forward the revised strategy. In October 2007, members of the forum, along with other community group representatives, were invited to take part in a focus group as part of the strategy consultation. This session sought information on how the Council can help the community to tackle climate change. Feedback will shape the new Community theme in the updated strategy.

Woking People of Faith is an important group through which the Council can communicate with members of different faith organisations. This is highly valuable in terms of ensuring that equality and diversity issues are considered in delivering Council policies and services. The ability of a network such as this to communicate messages to members of the community who otherwise may be difficult to reach is very powerful. The Council will continue to work in partnership with the group to disseminate information on its climate change activities.



1 Oak Tree Road

Work is currently under way at a site in Knaphill to transform a detached, three-bedroom house into one of the most water and energy efficient dwellings in Woking Borough.

The house in Oak Tree Road has been acquired by Woking Borough Homes Limited, a wholly-owned subsidiary of the Council's company, Thamesway Ltd, as a showcase for a wide range of water and energy efficient measures.

Over the next few weeks, the Council's building contractor, Mansell Plc, and the Energy Centre for Sustainable Communities (a second wholly owned subsidiary of Thamesway Ltd) will ensure the safe installation of measures including:

- ☀ a significant solar photovoltaic system which aims to provide at least 50% of electricity requirements
- ☀ a 3,500 litre sub-surface water tank which will collect rainwater to be used for watering the garden, flushing the toilet and running the washing machine
- ☀ energy efficient lighting, fittings, controls and appliances
- ☀ water efficient fittings such as an aerating shower head, reduced flow taps, dual flush toilet and water butts
- ☀ renovation to meet and exceed the Decent Homes Standard with the aim of achieving a 60% reduction in carbon emissions associated with energy use on site.

In addition, members of the local Local Agenda 21 Group and Three Valleys Water will be consulted to ensure that the garden is both low maintenance and drought resistant.

The project will seek to test and monitor the installed technologies and provide information to people who are looking to adapt their homes and take additional steps to tackle climate change.

Speaking about the project, Cllr Anne Murray, Woking Borough Council's Leader of the Executive, said: "The Council is committed to mitigating the effects of climate change and this project will help identify the measures that need to be taken to create homes for the future. Reducing carbon emissions in existing buildings is essential in order to meet local and national carbon reduction targets, and we hope this project will prompt home owners in the Borough to consider how they could be more water and energy efficient in years to come."

The transformation of the house is due to be completed in January 2008, after which the Council is hoping to set up a series of viewings and tours for members of the public. The property is likely to remain a test house for at least one year to give the Council time to monitor the water and energy efficiency of the various installations.



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2005-2006
Sustainable Energy



2007-2008
Promoting Sustainable
Communities Through
the Planning Process