National Assembly for Wales Sustainability Committee

Inquiry into Residential Carbon Reduction

Sean Rendall
Principal Policy Officer
Woking Borough Council

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Lille
Béthune
Lens
Arras
Abbeville
M6
M42
M69
M5
M1
M40
M11
M50
M4
M25
M3
M2
M20
E40
E42
E15
E402

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Energy Efficiency Accreditation,
December 2005

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Beacon Council
2005-2006
Sustainable Energy

Low Carbon Leaders
Award, December 2005

THE QUEEN'S AWARDS
FOR ENTERPRISE
2001

The Queen's Award for Enterprise

Reducing carbon emissions through...

- Community leadership
- Asset management
- Use of regulatory powers
- Council enterprises

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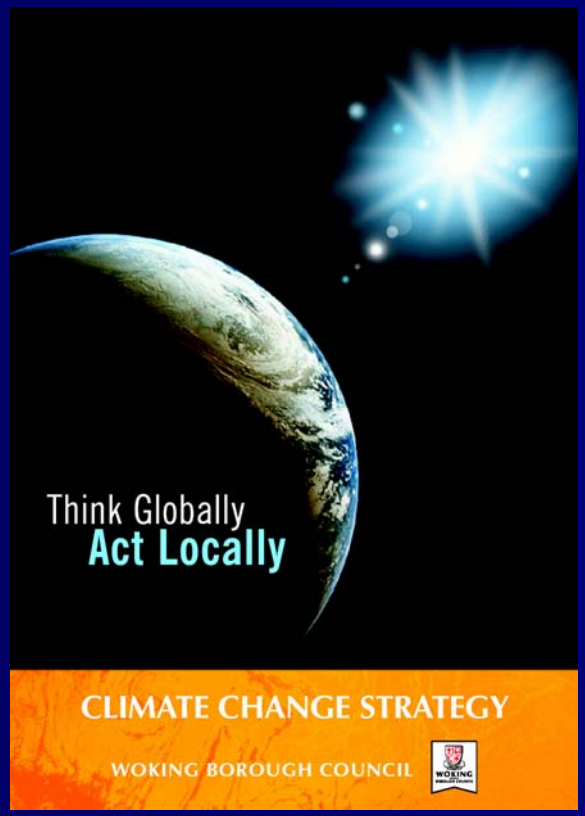
Woking's Climate Change Strategy



Adopted December 2002

Three Overarching Aims:

- Reduction of CO2 equivalent emissions
- Adaptation to climate change
- Promotion of sustainable development

Woking's Climate Change strategy

- 8 key themes
- Aims to deliver 60% CO_2 reductions by 2050
- Long term strategy, with short and medium term targets
- Regular progress reports to cross-party group

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Discover

Talk

Advance

Woking Solar Frontier

Names: Clare and Robert

Location: Mayford, Woking

System installed: 1992

We decided to install solar water heating in 1992 because we had a young family and we were concerned about their future as the possibility of climate change was becoming apparent.

This was our first major 'investment' to reduce our carbon emissions and it was good to know that we were starting to take control of our own contributions to climate change. We have used the installation as a stepping-stone to continue to reduce our energy impact and it has become a great educational tool for our children friends and neighbours.

greener home

Helping you create a heal
more environmentally-frie
home in Woking

Useful tips and contacts

GRANTS AND FUNDING

There may be grants available to provide assistance with particular household modifications. The following organisations can provide information about funding.

Boiler Efficiency Database (SEDBUK)
Developed under the Government's En
Efficiency Best Practice Programme
the co-operation of boiler manufactu
provides a basis for fair comparison o
energy performance of different boil
Web: www.sedbuk.com

Cleaner Car Conversion – Power Shift Programme
Grants worth up to 75% of the additi
cost of buying a clean fuel vehicl
converting an existing vehicle. Gr
are available to help with the purcl
of approved vehicles running on lique
petroleum gas (LPG), natural gas
electricity (including hybrids).
Tel: 0845 602 1425
Web: www.transportenergy.org.ul
grantsavailable/ powershift/

Building extensions, loft conversions and conservatories

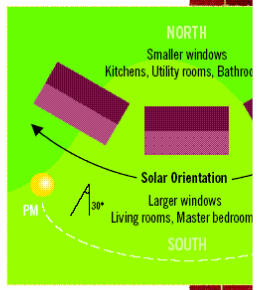
Location and position

Before considering building an extension or converting your loft, check that you are using all your existing internal space. Look to see if there is any unused space within the confines of the existing walls that can be converted, or if there is a different way of creating storage that could make better use of space.

If you have made these checks and are still sure that you need to increase your accommodation without moving house, then there are environmental options you need to consider for an extension or loft conversion. It is important to note that Listed Buildings are subject to more stringent planning constraints.

Design considerations

Position extensions so that they do not cut out natural **sunlight** and **daylight** to the rest of the house or your neighbours' homes. This is an important issue for planning permission, as are windows: they should not overlook neighbours' private facilities. The smaller the **external surface area** of a building, the less opportunity there is for heat to escape. The exposure of a building to the



Source: © Crown Copyright

Improving and decorating your home

Choosing materials

If you want to make environmentally-sound choices for home maintenance and improvement, choose materials that are:

- Clean or non-polluting
- Healthy (to humans and domestic animals)
- Renewable
- Abundant
- Natural
- Recyclable
- Energy-efficient
- Locally obtained
- Durable
- Designed for efficiency

The complete picture

Consider the overall impact on the environment.

- **Transportation:** how far have the materials or products travelled before reaching you? Can you select locally sourced products, to cut back the environmental impact (through carbon emissions) of the transportation involved?
- **Coatings and adhesives** applied under factory conditions are likely to have been subject to strict environmental regulations so that emissions of harmful fumes and Volatile Organic Compounds will be curbed. Applying coatings under factory conditions is likely to be more efficient than doing the same job at home, uses less coating materials, and cuts cost and environmental impact.
- **Packaging materials** should be, where possible, 'fit for purpose' and not designed largely for display. Ask your retailer whether there are arrangements for the return of used packaging once it has served its purpose.
- **Maintenance and servicing** of the product once it is in use: will a wooden or steel product need regular re-painting, at a cost financially and environmentally? Or is there an alternative in plastic, aluminium or stainless steel, where no maintenance may be required for the lifetime of the product?

QuickTips

- Plan in advance to make sure you order an optimum amount of material instead of relying on quantity discounts that could leave you with surplus materials you may have to throw away.
- Save money by planning carefully before cutting hardboard, ply, laminates or pipe work to make the best use of the material. This will cut your costs as well as waste produced.
- Ask your suppliers whether they will take back your unused or waste materials, for re-use or responsible disposal.
- Reuse materials and other items where you can - recover screws and fasteners, offcuts of timber, fabrics and pipe work, for example. Avoid scrapping them, and the possible need to buy more material at a later date and thereby using up more natural resources.

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Reducing carbon emissions through...

- Community leadership
- Asset management
- Use of regulatory powers
- Council enterprises

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Power

Chilled Water

Hot Water

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Woking's Climate Neutral Development good practice guide

Published July 2004

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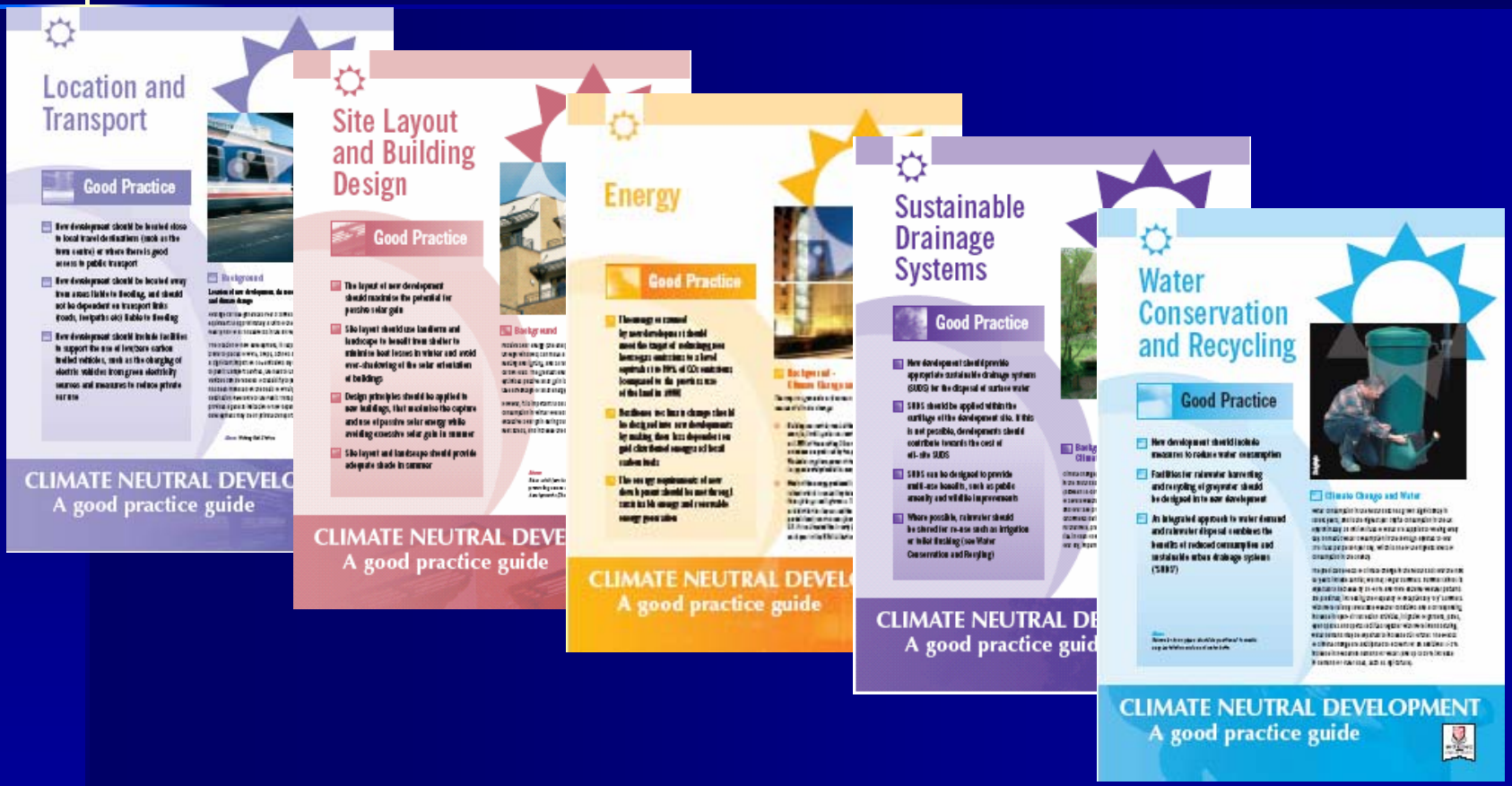
Guidance on 5 target areas of good practice (published July 2004)



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Surrey Structure Plan Policy SE2

- All development should incorporate best practice energy efficiency measures
- Commercial and residential development designed for a minimum of 10% of the energy requirement is provided by renewable resources.
- Combined heat and power encouraged, and over 5,000 sq m should be the norm.

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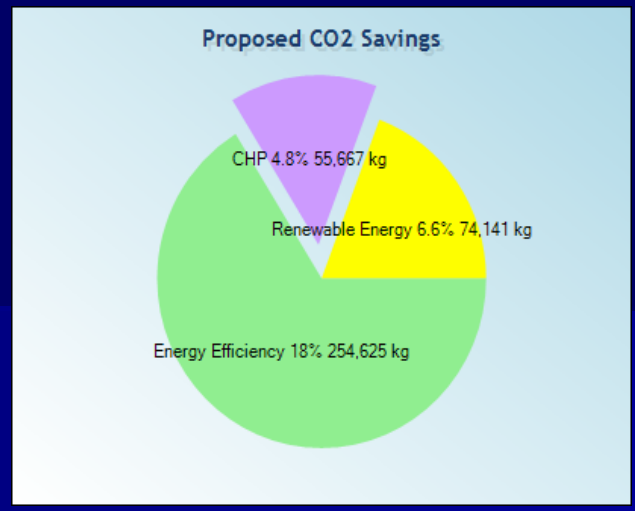

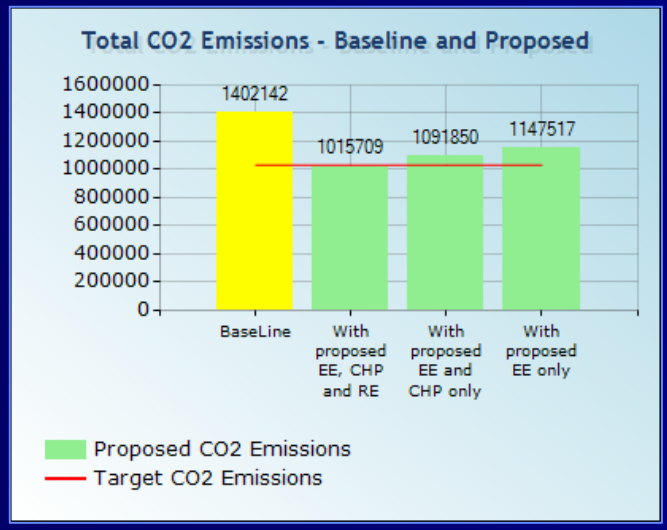

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Thameswey

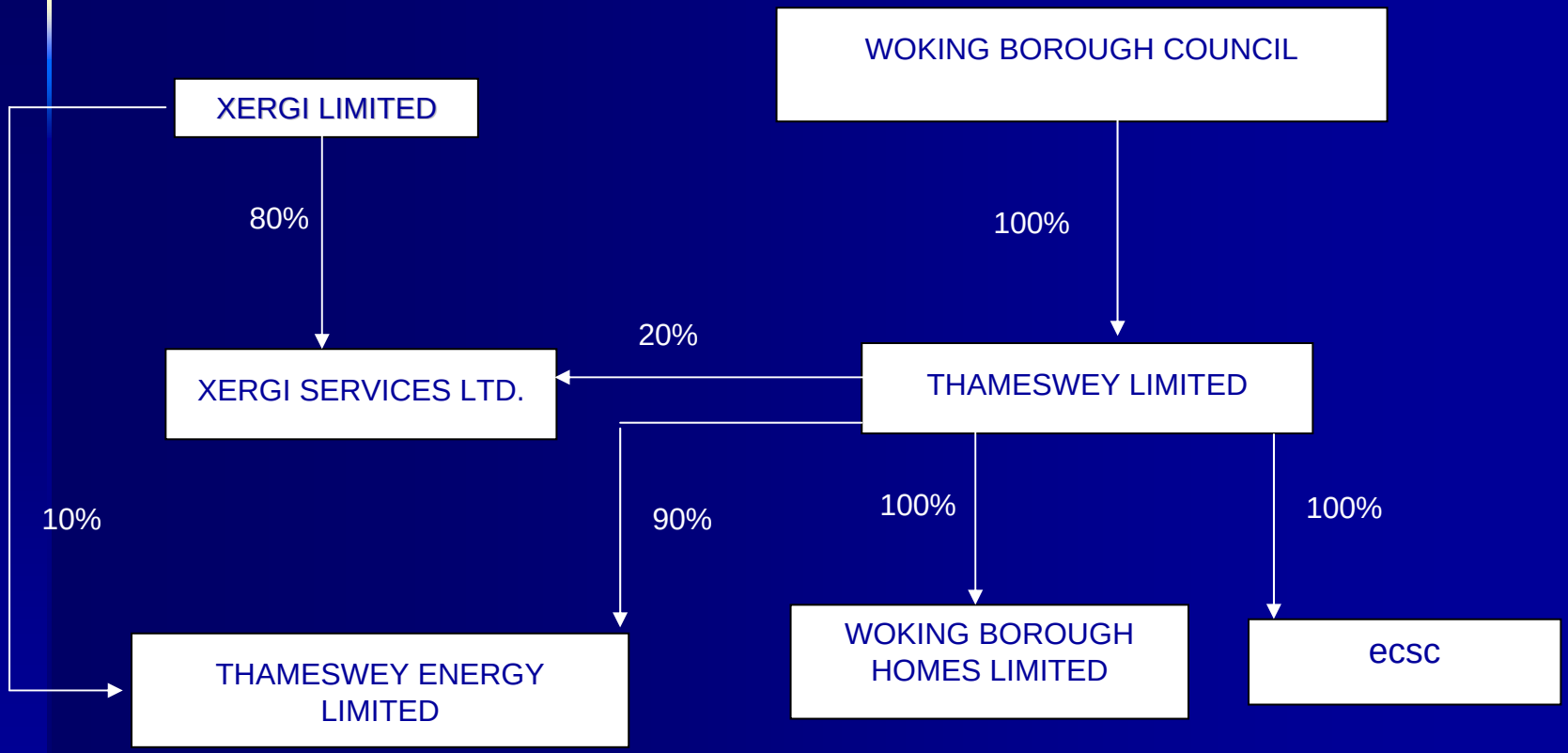
Thameswey Ltd

An Energy and Environmental Services Company (EESCO) wholly owned by Woking Borough Council. It enters into public/private joint ventures to deliver energy and environmental projects.

Thameswey Energy Ltd

Thameswey Energy Limited (TEL) is a joint venture Energy Services Company or ESCO between Thameswey Limited and its Danish partner contractors, Xergi Ltd.

Thameswey corporate structure



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C-PLAN
Carbon Impact Assessment

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woking.gov.uk/climateneutral

woking.gov.uk/planningenergy

www.carbonplanner.co.uk

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