

energise



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Above: Biomass will fuel the new boiler at Bristol's municipal plant nursery.

Right: Energy Saving Week was busy for the Bristol & Somerset Energy Efficiency Advice Centre.



From 'I will if you will' to 'We have, will you?'

We have about 10 years to take action to prevent the worst of climate change. So concluded the establishment economist Sir Nicholas Stern in his recently published review.

That's 10 years to act. Not 10 years to get our act together. And not 10 years to wait while China and India and the US get their acts together.

Jeremy Paxman has become fond of asserting on Newsnight that China is bringing a new coal power station on stream "every 20 days", growing 'their' carbon emissions at rates which dwarf UK efforts to cut ours. His numbers are compelling (and not entirely inaccurate); it makes for easy, if dispiriting, knock-about TV.

Yet Paxman never explores how our own growing consumer demands are helping to fuel China's electricity-hungry economic growth. And he never points out that the carbon emissions per person in China are still less than one third of those in the UK.

He also fails to examine the dynamics of the discotheque that is international climate change negotiations - it works best when someone who can dance takes to the dance-floor first.

By acting together to cut carbon emissions within the UK - creating a sense of common purpose between individuals, communities, businesses, local, regional and national government - we can make a difference.

But that difference is, at this stage, not to the absolute concentrations of greenhouse gases in the atmosphere. Paxman (and much more importantly Stern) is right that

the UK can not make that much difference to the critical numbers. The difference is in the dance in which we can legitimately lead the rest of the world.

The same leadership must be shown within the UK. We are stuck in what the UK Sustainable Consumption Round Table described as an 'I will if you will' conundrum - where everyone's action is conditional on everyone else acting.

The steps to stimulate action are neither complicated nor, as Stern concluded, costly. But it does need someone to start dancing them.

That's why we have produced an electronic version of the Local and Regional Carbon Management Matrix (see p2) to help prepare local authorities and regional agencies for the new focus on climate change in their performance framework.

It is why we have been working with Defra on the issues involved with personal carbon trading, potentially the ultimate policy tool for asserting the responsibility of each individual to manage their carbon emissions (see p3).

And it is why we continue to build up the funding to revitalise our flagship energy education programme, Energy Matters. We want to replicate its remarkable success in delivering both positive educational outcomes and changes in energy saving behaviour at home. Children as young as nine became effective and trusted energy advisors to their families (see www.cse.org.uk/energymatters).

It is time to move beyond 'I will if you will' to 'We have, will you?'

Simon Roberts, Chief Executive
simon.roberts@cse.org.uk

2 Working with local authorities

The tool for local government action on climate change

The **Local and Regional Carbon Management Matrix** can help local authorities and regional agencies cut emissions and address climate change

CSE has made the Local and Regional Carbon Management Matrix available as a free download from its website (see box below).

The Matrix is a performance assessment tool designed to help local authorities and regional agencies understand their influence on carbon emissions and move towards better carbon management. It can be used both to establish a benchmark of existing performance and a guide to improvement.

The Matrix works by identifying the roles and 'levers' which local authorities and regional bodies have available to them which have an influence on carbon emissions, and it shows how they can be used to better effect.

Local authorities effect the level of carbon emissions in their areas through their activities in housing, education, waste, leisure, planning, transport etc. And carbon management is not something they can ignore; the Government has made it plain that it expects local authorities to engage with climate change issues and will judge councils accordingly.

The Matrix has been successfully road-tested by the district council of Easington in County Durham. Here CSE used the Matrix to help develop a Climate Change Action Plan aimed at underpinning the council's efforts to cut energy use by local people, local businesses and the council itself.

It is also featuring in CSE's current work for the London Borough of Islington where we are helping establish a carbon-emissions baseline and draw up a practical strategy to improve carbon management across the borough.

Mark Letcher, CSE's Head of Advice & Partnerships, said "We urge anyone who may be interested in carbon management to download the Matrix, take a look and just give it a go."

HOW IT WORKS

The Matrix is divided into five separate aspects of carbon management - domestic energy efficiency, business energy efficiency, public sector energy efficiency, renewable and low-carbon energy generation, transport - and details the conduct likely to secure 'weak', 'fair', 'good' or 'excellent' rating for each one.

Performance can be evaluated by assessing which of these four 'behavioural indicators' for each lever most closely resembles the activity currently being undertaken (a 'behavioural indicator' approach is taken because many of the levers and actions have an *indirect* impact on carbon emissions making it difficult to develop a purely quantitative measurement of performance).

The Matrix is available as an Excel spreadsheet (above). Download it, and valuable user-notes, from www.cse.org.uk/matrix



The Matrix puts local authority carbon management under the microscope

By detailing behaviours at each level, the Matrix provides a picture of the incremental steps involved in improving performance. It therefore has the potential to act as both a yardstick to measure performance and a guide to improve it - for example a local authority currently performing at 'fair' on a particular lever can see immediately what it needs to do to move on to 'good'.

To assist in the process of self-assessment for local authorities CSE has developed a simple electronic version of the Matrix (see box) as a set of Excel spreadsheets. It has drop-down menus to select a current performance grading for each lever and space to record the justification and evidence for the grading and to identify the assessor who made the judgment. It also automatically averages gradings across all levers within each element to arrive at an overall grading for that element.

The downloadable electronic version of the Matrix provides an easy self-assessment tool for local authorities. The associated user-guidance explains the need and the opportunities for local and regional bodies to align their own activities with national efforts to curb carbon emissions.

■ ■ ■ The Local and Regional Carbon Management Matrix was originally developed for a project for Defra led by CSE. For more information on the Matrix and how CSE can help local authorities address climate change, contact, mark.letcher@cse.org.uk

A nation of carbon traders?

Can 'personal carbon allowances' transform the carbon emitting behaviour of people in the UK? After the Secretary of State for the Environment, David Miliband, opened public debate on the issue in July, Defra asked CSE to help carry out some initial analysis of the issues around different approaches to individual involvement in carbon trading.

The resulting report from CSE, *A Rough Guide to Individual Carbon Trading*, has now been published by Defra and can be downloaded from www.cse.org.uk/pdf/pub1067.pdf.

Simon Roberts, CSE's Chief Executive who led the study with Head of Research Joshua Thumim, said; "People seem very ready to take up positions for or against individual carbon trading. But our assessment of the evidence and analysis done to date concludes that it is far too early to either embrace or reject the idea – the right questions have not yet been asked."

The Rough Guide report outlines a detailed route map for answering the outstanding questions. As Simon concludes, "This way we can come quickly to informed decisions about whether – and how – the potential value of individual carbon trading as a policy tool can be realised in practice."

■ ■ ■ For more details, contact simon.roberts@cse.org.uk



Will 'personal carbon allowances' make a difference to motorists?

Policy shorts

■ CSE gives evidence to Commons Committee on climate change

CSE Chief Executive Simon Roberts gave oral evidence to the House of Commons Environment, Food and Rural Affairs Committee on 'Climate Change – the Citizen's Agenda'. In our written evidence we focused on the need for educational activity on energy and climate change, improving communications and getting some decent evidence on the role of advice in stimulating change – to justify more extensive government funding.

■ Proposed desalination plant is "energy guzzling"

CSE's Head of Research, Joshua Thumim, appeared as an expert witness in the planning inquiry into Thames Water's application to build a desalination plant in East London, described by Mayor of London, Ken Livingstone, as "energy guzzling and carbon-intensive". Joshua provided evidence to the planning inquiry on the significance of climate change and the carbon emissions associated with desalination compared with alternative water management options - such as the repair of the water company's pipe network which loses six times the capacity of the proposed plant through leakage.

At the time of writing, the inquiry has not yet reached a decision.

■ Advising Government on biomass

CSE has been invited to help the Government shape its forthcoming biomass strategy. Chief Executive Simon Roberts will sit on the new Biomass Implementation Advisory Group, focusing particularly on the importance of sustained local and regional initiatives to support communities and the development of biomass energy.



Paving the way to zero-carbon developments

The Mayor of London, Ken Livingstone, has launched a report - co-authored by CSE - that takes the capital a step closer to its objective of having a 'zero-carbon' development in every borough.

'Towards Zero Carbon Developments' was produced for the London Energy Partnership, and provides advice and information for local authorities, property developers and architects on what this kind of development may entail.

The report supports the Mayor's stated aims of reducing the capital's contribution to climate change, tackling fuel poverty, boosting the use of renewable and energy efficient technologies, and having at least one zero-carbon development - e.g. housing estate or major public building - in each of the capital's 33 boroughs by 2010.

CSE's task was to produce a report

that addresses such issues as:

- What constitutes a zero-carbon or low-carbon development?
- Appropriate - and enforceable - planning policies
- How should suitable sites be identified?
- What other mechanisms can be used to bring about development of such sites?

To help answer these questions, CSE worked in partnership with the planning team at the London Borough of Merton, which helped pioneer some of the policies that are now central to low-carbon development planning.

Martin Holley, Senior Project Manager at CSE, is confident that the study will prove influential and useful. "It's been a great opportunity to apply our expertise in low-carbon developments to such an important initiative, and for CSE to pave the way for some high-profile building projects in the capital which will support the Mayor's energy strategy and deliver carbon reductions."

■ ■ ■ For more details, contact martin.holley@cse.org.uk

IGNITION ... FIRE!

The biomass boiler at Bristol City Council's plant nursery was successfully fired up in October, and is now warming the greenhouses with sustainably produced heat

It's been some three years in the making, but finally the biomass boiler at Bristol City Council's plant nursery at Blaise is pumping out renewable energy, and winning awards in the process.

The 400kW boiler is fed with wood chips – made from tree trimmings from Bristol's parks, streets and other green places - and provides the heat for the dozens of greenhouses which supply the city with flowers and other bedding plants.

Blaise Nursery was identified as a suitable site for a biomass installation by a feasibility study undertaken for Bristol City Council by CSE in 2003*.

Our research showed that, with a level of grant support of 50%, the simple payback time for the new equipment would be 13 years, due to savings in LPG consumption. However, the significant increase in the cost of fuel since the study was undertaken means that the payback has improved significantly. We estimated

that the burning of 'waste' wood would save about 45,000 litres in LPG consumption per year. This would reduce CO₂ emissions from the site by about 70 tonnes per year.

The Blaise Nursery biomass scheme won an award for Best New Renewable Energy Scheme at the South West Green Energy Awards organised by Regen SW (for details, see www.regensw.co.uk)

* See www.cse.org.uk/cgi-bin/projects.cgi?local&41



BRISTOL CITY COUNCIL



The biomass boiler will heat the dozens of greenhouses at Bristol's municipal plant nursery. **Left:** the boiler and some of the material that will fuel it; **above:** replacing the pipework in the greenhouses; **below:** tractor in the the large barn where the chipped remains of the city's arboricultural 'arisings' are stored.

Boost for wood heating in South West from new advice service

A woodfuel advice line - launched in November by CSE - has proved extremely popular. The 'Woodfuel South West Advice Service' is aimed at individuals, community groups, businesses and public bodies such as schools who are considering installing automated wood boiler systems that run on logs, woodchips or wood pellets.

The purpose of the programme -

which is funded by the South West Regional Development Agency and Woodland Renaissance - is to turn the widespread interest in wood heating into completed installations.

The phone line has been brisk, suggesting that there is scope for the development of this form of renewable energy in the region.

Callers receive independent advice and an information pack. Larger premises are considered for a site visit where an expert will assess the suitability of the premises for a wood-fired boiler.

For suitable sites, CSE organises registered suppliers to provide quotes for the installation.

CSE's Alastair McMahon says "There's significant interest in wood heating, particularly in off-gas areas, but there's been little or no advice to guide this interest. This new advice service will address these problems and really help to grow the wood heating sector in the region."

We are particularly interested to hear from potential wood heating projects (private, community or business) located in a South West national park or area of outstanding natural beauty as a limited amount of grant aid is available.

Woodfuel South West Advice Service
08450 74 06 74



Climate change? Yes, we're bovvered!

A Gore's 'An Inconvenient Truth' isn't the only climate-change movie out at the moment; you can also watch a series of short films on climate change and energy - made this summer by Bristol schoolchildren - on the internet.

Kate Richardson from CSE's education team worked alongside the children, the Natural History Consortium and local film-makers to put together the movies which were projected onto a big screen during the Bristol Festival of Nature (3-4 June 2006) and seen by thousands.

THINK OR SWIM

The films - part of a project entitled Think or Swim? - can be seen on the Natural History Consortium's website (www.festivalofnature.org).

Kate, a student placement at CSE at the time, was impressed by the pupils' dedication. "We packed a tremendous amount of work into just a few weeks, with the kids exploring the global impacts of climate change, the local implications and possible solutions. The film-makers helped translate the groups' ideas about climate change and energy efficiency into the finished production."

Richard Dunning, CSE's Head of Education & Training said "The youngsters were given virtually free rein, which inevitably allowed the odd factual inaccuracy to creep in, but the films are the work of the kids themselves and a genuine expression of their views."

■ ■ ■ For more details, contact richard.dunning@cse.org.uk

Training in energy awareness

New energy training resource empowers tenants

Tenants living in social housing have a great new training resource to help them take control of their own energy use and tackle their landlords on the energy performance of their homes.

A package of materials, including a slide presentation, trainer's notes, information sheets and other hand-outs was produced by a team led by CSE that also included the Tenant Participation Advisory Service and Energy Inform. The work was carried out on behalf of the Energy Saving Trust and the Housing Corporation with the aim of empowering social-housing residents to tackle energy efficiency at home.

During its development, the training course and materials were extensively 'road-tested', re-evaluated and refined. The package was piloted in the summer, and feedback from both delegates and tutors was that this resource would benefit the rented-accommodation sector and that it struck the right balance between a call to action and a source of information.

Over 95% of those attending the pilot session reckoned they could reduce energy use in their own home, their neighbour's home and by

working with their landlord.

But would this heightened awareness and desire to act endure in the weeks after the course finished?

A follow-up phone-survey found that after attending the course, tenants were indeed taking action in their home to reduce their energy usage, and actively spreading the word to friends, family and neighbours. The survey found that the 81 tenants trained have passed the message on to over 600 others, and over half had taken a more active role in their tenant forum. It was less encouraging to hear that tenants had failed so far to change their landlord's behaviour.

■ ■ ■ For more details, contact ian.preston@cse.org.uk



CSE worked with other organisations to produce materials to encourage energy saving in the rented-accommodation sector

Training National Trust volunteers in energy auditing

CSE has been working with the National Trust in the Yorkshire Dales, helping the conservation body to reduce the energy consumption of its estate and to find ways of generating energy from local renewable sources.

Staff members Mark Letcher and Alastair McMahon have been training a dedicated group of Trust volunteers to carry out energy audits of National Trust farms and other properties. These surveys will

first calculate the carbon emissions from buildings, appliances and machinery, then see how energy can be saved through more efficient use.

They will also assess which sites might be suitable for the installation of renewable energy technologies (taking particular account of the planning restrictions in the National Park).

■ ■ ■ For more details, contact richard.dunning@cse.org.uk

Taking energy advice out on the road

Energy Saving Week (23-29 October) was all go for CSE's Energy Efficiency Advice Centre

It was another tremendously busy and successful Energy Saving Week for the Bristol & Somerset Energy Efficiency Advice Centre, run by CSE.

As in past years the team took its information stand and advice materials out on the road, meeting as many people as possible and spreading the energy efficiency message across the area.

We focussed on shopping centres this year, visiting the towns of Street, Bridgewater, and Minehead in Somerset as well the Galleries in central Bristol.

A brand new display (see picture) helped attract the attention of shoppers and passers-by, and our trained energy advisors

were on hand to explain to people what can be done to save energy at home, and to hand out tip-sheets and other useful leaflets.

Sarah Finnigan, manager of the Advice Centre, said "The team spoke face-to-face to over 1000 people during the course of the week. The public was very responsive and keen to find out about saving energy and cutting their fuel bills".

Energy Saving Week is organised by the Energy Saving Trust. This was the tenth year that the event has taken place, but rarely can it have done so against a background of such interest in the issues of energy use and climate change.

You can call your local Energy Efficiency Advice Centre on 0800 512 012



The CSE's Lead Trainer Anna Stobbs in front of the new display which shows a cross section of a home and where energy savings can be made



The discussion was animated when the advice team went out to meet the public, spread the energy efficiency message and hand out low-energy lightbulbs in Bristol. Interest in saving energy at home is high, and the washing machine outfit helps draw the crowds too!

CSE exposes the causes of rural fuel poverty

Levels of fuel poverty in rural areas are higher than might be expected, due to the prevalence of 'hard-to-treat' homes in the countryside.

This was one of the findings of the interim report of CSE's on-going research into 'quantifying rural fuel poverty'.

CSE's senior researcher, William Baker, carried out the research with funding from the EAGA Partnership Charitable Trust. He concludes that "the problem of 'hard-to-treat' homes - those that are solid-walled or off the main gas network - is so extensive in rural areas that new approaches to targeting the rural fuel poor are required."

The research investigated three factors that were considered relevant to understanding rural fuel poverty: access to gas; solid-walled properties; and the take up of Warm Front grants (delivered before October 2003). Statistical analyses assessed the extent to which these three factors varied according to 'rurality' or settlement type (e.g. 'urban', 'town and fringe', 'village' and 'hamlet and isolated dwellings').

Alternatives to Warm Front

Based on its findings (see box), the report suggests that policy makers should consider alternative methods of targeting Warm Front grants in rural areas to the current approach based on the receipt of certain welfare benefits.

This is because the extensive problem of 'hard to treat' draws many households just above benefit



Fuel poverty in rural areas: CSE is leading the research

levels into fuel poverty (although the report acknowledges that poor take-up of benefits by eligible rural households may also contribute).

CSE's report accompanies a 'rural fuel poverty' website: www.ruralfuelpoverty.org.uk. This provides detailed maps and data showing 'off-gas' and solid-walled properties for every county in England and patterns of Warm Front take-up for all counties except those in Eastern England.

The website will be a useful resource for anyone concerned with fuel poverty and rural matters. Its value should increase with completion of the second stage of the research that will explore relationships between the distribution of hard to treat properties, Warm Front take-up and fuel poverty at the small-area level.

■ ■ ■ For more details, contact william.baker@cse.org.uk

Research findings: the main points

- The proportion of solid walled properties increases substantially as you move from 'urban' to 'town' to 'village' to 'hamlet'.
- Over a third of rural properties are off the gas network, compared to 5% of urban properties. This rises to nearly half in the South West.
- The take-up rate of Warm Front grants in urban areas was over twice that in rural areas
- Rates of rural and urban fuel poverty are broadly comparable. However, levels of income deprivation in the countryside are generally lower which may, in part, explain the lower Warm Front take-up rate in rural areas.
- The number of 'hard to treat' properties in rural areas could explain the relatively high fuel poverty levels found there.

How much? The cost of alleviating fuel poverty

CSE, in partnership with the Association for the Conservation of Energy and Dr Richard Moore, has won funding from Eaga Partnership to examine the cost of alleviating fuel poverty. This research will inform policy makers looking for ways to tackle fuel poverty, and help target national grant schemes.

The project aims to quantify the cost of delivering affordable warmth to all fuel poor households and raising all properties to a minimum standard of energy efficiency. We will be examining the measures required to do this for different household types, the cost of these and the associated economic benefit to the country - e.g. in job creation and health benefits.

■ ■ ■ For more details, contact ian.preston@cse.org.uk

Further backing for CSE's social tariffs work

Since its publication, CSE's report 'Social tariffs: a solution to fuel poverty?' has stimulated extensive debate in fuel poverty policy circles. As a result, the public-sector trade union, Unison, for whom the report was originally prepared, has funded CSE to publicise the work at conferences and policy seminars up and down the UK.

The author of the report, CSE's William Baker, found that social tariffs - in which energy suppliers offer discounts on their energy bills to some of their more vulnerable customers - are "ad hoc, inconsistent and poorly focused on fuel poverty".

William is also speaking at a major event in the House of Commons at which politicians and other key decision-makers will discuss the way forward for social tariff policy.

Download a copy of 'Social tariffs: a solution to fuel poverty?' from www.cse.org.uk/pdf/pub1059.pdf or contact us for a free hard copy.

■ ■ ■ For more details, contact william.baker@cse.org.uk

CAFE: ENERGY PROJECTS CHANGE COMMUNITIES

Community Action for Energy (CAfE) - the Energy Saving Trust's initiative to promote community based energy projects - continues to grow. There are now over 2,500 members of the network and more join every day. Their



work covers a bewildering and colourful range of activity including community-owned

renewables, home improvements for vulnerable householders, making bio-diesel from used cooking oil, and solar-powered car-racing for kids (pictured). Members can take advantage of a range of benefits such as free training, travel bursaries, advice from a panel of experts and regular newsletters. Call to find out more on 08701 261 444 or go to www.est.org.uk/cafe

CONSERVATIVE'S 'QUALITY OF LIFE' COMMISSION

Simon Roberts has been contributing to the Energy Demand Working Group of the Quality of Life Commission set up by Conservative party leader, David Cameron. The group is developing proposals for reducing energy demand which will help the Commission provide coherent advice to Mr Cameron on future policy to tackle climate change.

WEBSITE: VISITOR NUMBERS UP

It's onward and upward for CSE's website – www.cse.org.uk – which continues to attract visitors in ever greater number. Over 6,000 people from all over the world visit the site every month to find out more about CSE's varied and innovative project work. And our e-newsletter subscriber list is growing too, with 2,000 people signed up to receive monthly updates of CSE's work, details of vacancies and other news. Sign yourself up at www.cse.org.uk/maillinglist.

STAFF NEWS

Welcome back **Claire Chambers**, a much-valued former member of staff, who left CSE for Australia a year ago and returns as a Project Manger to support our busy Technical Services and Training teams. We continue to strengthen our research capability and are pleased to welcome two new project workers to our research team. **Vicki White** and **Zoe Redgrove**. We say farewell to **Alison White** (Development Manager) and **Cheryl Gilbert** (Education Project Manager), both of whom made significant contributions to CSE over the years and will be missed. Finally, it's three-out-two-in for our student placements with **Charlotte Burt**, **Emma Connor** and **Kate Richardson** moving on, and **Adam Brennan** and **Karen Dutton** moving in.

Centre for Sustainable Energy

Promoting sustainable energy policy and practice

The Centre for Sustainable Energy (CSE) is a national charitable company, established in 1979 to advance sustainable energy policy and practice. We seek energy solutions that engage people and communities to meet real needs for both environmentally sound and affordable energy services.

We offer: training in sustainable energy ■ impartial energy advice ■ community-based initiatives ■ educational resources ■ research and consultancy ■ policy analysis.

energise is produced 3-4 times a year and distributed free on request.

Who's who at CSE

STEPHEN ANDREWS	Senior Project Worker (Technical Services)
WILLIAM BAKER	Senior Researcher
ADAM BRENNAN	Student Placement (Advice & Partnerships)
CLAIRE CHAMBERS	Project Manager (Technical Services)
RACHEL COX COON	Development Manager
LIZ DAGGER	Community Outreach Worker
RICHARD DUNNING	Head of Education & Training
KAREN DUTTON	Student Placement
SARAH FINNIGAN	Energy Advice Centre Manager
SARAH FRANKISH	Head of Finance & Administration
AMY HAMMOND	Project Manager (Technical Services)
LUCY HELLIER	Energy Advisor
MARTIN HOLLEY	Senior Project Manager (Technical Services)
SEBASTIEN JAUX	Senior Energy Advisor
MARK LETCHER	Head of Advice & Partnerships
GAYNOR LEWIS	Project Manager (Education)
ALASTAIR McMAHON	Project Manager (Technical Services)
JANINE MICHAEL	Head of Development
KIRSTY MITCHELL	Office Assistant
HELEN MOUNSEY	Senior Project Worker (Advice & Partnerships)
LISA PINCHEN	Energy Advisor (<i>on maternity leave</i>)
IAN PRESTON	Development Manager
ZOE REDGROVE	Project Worker (Research)
SIMON ROBERTS	Chief Executive
LOUISE RUTTERFORD	Senior Project Worker (Advice & Partnerships)
VERITY SAUNDERS	Senior Project Manager (Advice & Partnerships)
JULIA STEPHENS-PARR	Financial Administrator
ANNA STOBBS	Lead Trainer
GEMMA TEMPLAR	Community Outreach Worker
JOSHUA THUMIM	Head of Research
JAMIE WALTERS	Senior Energy Advisor
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