



The new Government's energy performance commitments (so far).

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SCALA/SCEME/CLAW Study Day 2010

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Donald Rumsfeld knows the score!



- There are known knowns. These are things we know that we know.
- There are known unknowns. That is to say, there are things that we know we don't know.
- But there are also unknown unknowns. There are things we don't know we don't know

The Coalition: our programme for government



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Under DCLG on page 12 it says:-

- We will require continuous improvements to the energy efficiency of new housing (ED: interesting it does not say "all buildings").
- We will provide incentives for local authorities to deliver sustainable development, including for new homes and businesses.

Under DECC on page 16 it says:-

- We will seek to increase the target for energy from renewable sources, subject to the advice of the CC Committee.
- We will establish a smart grid and roll out smart meters.
- Through our 'Green Deal', we will encourage home energy efficiency improvements paid for by savings from energy bills.

And goes on:-

- We will also take measures to improve energy efficiency in businesses and public sector buildings.
- We will reduce central government carbon emissions by 10% within 12 months.
- We will reform energy markets to deliver security of supply and investment in LZC energy, and ensure fair competition - including a review of OFGEM.

And on:-

- We will encourage **community-owned renewable energy schemes** where local people benefit from the power produced.
- We will also allow communities that host renewable energy projects to **keep the proceeds**.
- We will create a **green investment bank** that offers green financial products to individuals for investing in green infrastructure.

Under Defra on page 18 it says:-

- We will create a presumption in favour of sustainable development in the planning system.

(ED: Actually a DCLG responsibility).

Energy Bill: Queen's Speech, 25 May 2010



Chris Huhne
Sec of State for ECC

- Energy security and real action on climate change aren't add on extras for this new Govt.
- The Energy Bill will help consumers stop wasting energy in their homes through a **green deal** while modernising our energy system.

The Bill

Purpose:

- to provide a step change in providing energy efficiency to homes and businesses. And to create a framework to deliver secure, low carbon energy supplies and fair competition in the energy markets.

The Bill

Main elements:

- Implementation of a “**Green deal**” to deliver energy efficiency to homes and business
- delivering a framework including incentives to energy suppliers and households that enables a “**pay as you save**” approach.

The Bill may also contain:-

measures to:

- regulate the carbon emissions from coal-fired power stations
- reform energy markets to deliver security of supply and ensure fair competition
- **put in place a framework for a smart electricity grid**
- require energy companies to provide more information on energy bills

And:-

- Measures to:-
- ensure that North Sea infrastructure is available to all companies to ease the exploitation of smaller and more difficult oil and gas fields
- **create a Green Investment Bank to support investment in low carbon projects to transform the economy**

Zero Carbon Pledge



Grant Shapps
Minister for Housing

- I confirm the commitment to zero carbon standards for new homes wef 2016.
- “I will be publishing a **final** (sic) zero carbon definition in a matter of weeks”.

MEANWHILE



Eric Pickles
Secretary of State for CLG



Back at the ranch
(Eland House)

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The Climate Change Act, 2008

- Legally binding target **reduction of $\geq 80\%$ by 2050** in GHG emissions, by action in the UK and abroad.
- Also a **reduction of $\leq 34\%$ by 2020**.
- A carbon budgeting system capping emissions over 5 year periods:-
 - 3 budgets set at a time.
 - The 1st set run from 2008-12, 2013-17 and 2018-22.
- The last Govt stated how it intends to achieve these budgets in the **UK Low Carbon Transition Plan**.

Main elements of emissions cuts

- Cuts in 2020 re 2008 base
- Power and heavy industry - 22%
 - Inc using 40% energy from LZC sources.
 - DECC now has an Office for Renewable Energy Deployment!
- Homes - 29%.
- Workplace - 13%
- Transport – 14%
 - See *“Low Carbon Transport: A Greener Future”*
- Farming – 6%

Some of the vectors

- CRC Energy Efficiency Scheme.
 - Catches those (inc LAs) consuming 6GWh per year.
- Building Regulations Parts F & L: SI 2010:719:
 - main technical provisions CIF date 06 Oct 2010.

(CLG speaker at SCEME AGM 30 June).
- Code for Sustainable Homes
 - consultation closed March 2010 – new edition promised this year.

Some more of the vectors

- Low carbon communities challenge.
 - Pdf Booklet on DECC website.
 - 22 winners announced.
 - New govt 2nd thoughts?
- Eco Towns PPS July 2009
 - 4 have funds to plan and build this FY.
 - Another 9 have funds for Feasibility Studies
 - New govt 2nd thoughts?

What are Eco Towns?



- New towns which are exemplar green developments of at least 5,000 homes
- Designed to meet the highest standards of sustainability, including low and zero carbon technologies and good public transport.
- 10,000 homes to be built by 2016, of which at least 30% will be affordable, and up to 10 eco-towns by 2020

Why eco-towns/developments?



Eco-towns are a response to:-

- the challenge of climate change.
- the need to find ways of more sustainable living.
- the need for more housing, including affordable housing.

Eco-towns PPS standards

- **Zero-carbon:** total carbon emissions from energy use within all the buildings across the eco-town over the course of a year.
- **Water & floods:** be highly water efficient, contribute to improving water quality where necessary & protect residents from floods.
- **Waste:** substantially more recycling than national targets.

Eco-towns PPS standards

- **Employment:** provide access to one employment opportunity per new dwelling easily reached by modes other than car.
- **Transport:** one primary school, public transport and shops within around ten minutes walk of every home. 50% of journeys in the town by modes other than car.
- **Green infrastructure:** A minimum of 40% green space in each town, at least half accessible by the community

An example of current play: Broadland (Rackheath)'s plans

- **A 12-home pilot scheme** for completion summer 2011.
- **An energy efficiency fund** to support adapting existing buildings.
- **Sustainable transport** links.
- **A sustainable water strategy**
- Strategic **green infrastructure** work
- **A 200 home exemplar** scheme in 2010/11 including commercial and community facilities,
- **A dissemination programme** including creating an Education Centre.

An example of current play: Cherwell (NW Bicester)'s plans

- **A master plan** for the Eco Town.
- New housing:-
 - **An exhibition eco house.**
 - **A 200-home** sustainable housing scheme,
 - **Affordable housing** on a brownfield site.
- New **Sixth Form Centre** and **community hall**.
- Phase 1 of a project to change **travel behaviour**.
- A **construction skills training** project.
- Other projects to benefit the **existing community**.



END