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RENEWABLE ENERGY 4
DEVON

Installing Renewable Energy in New Buildings

February 2008

Organised by:



Devon Sustainable
Building Initiative
www.sustainablebuild.org

envision
where environment means business



FUTURE FOUNDATIONS
Building a better South West

Installing renewable energy in new buildings – the policy drivers

**Gareth Walton
Director**

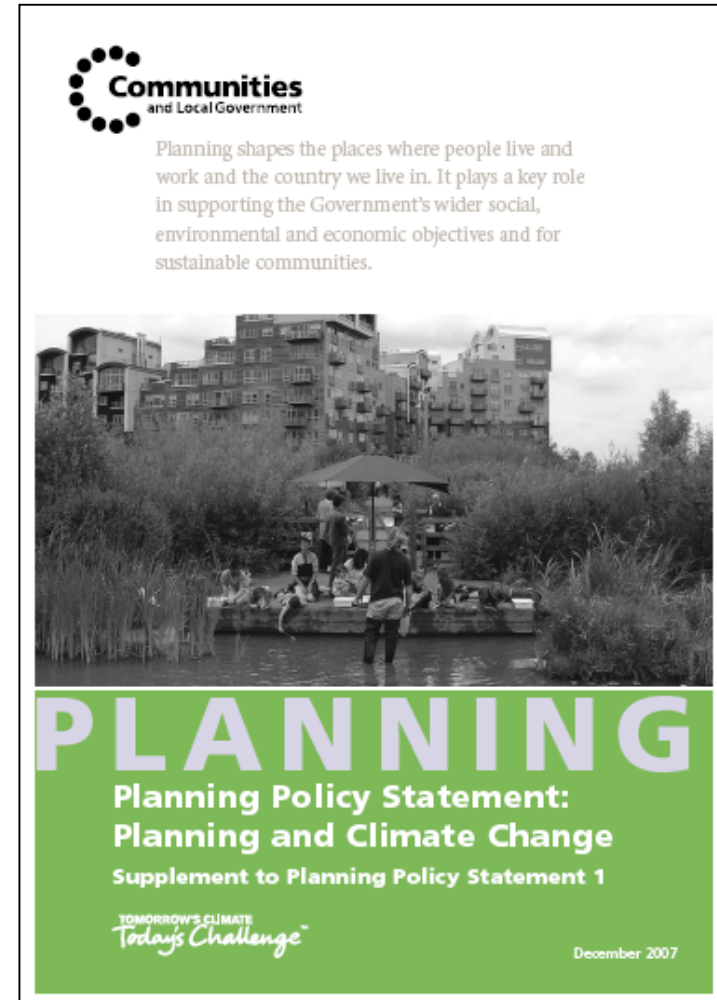
Devon Sustainable Building Initiative (DSBI)



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Building Initiative**
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Climate Change PPS

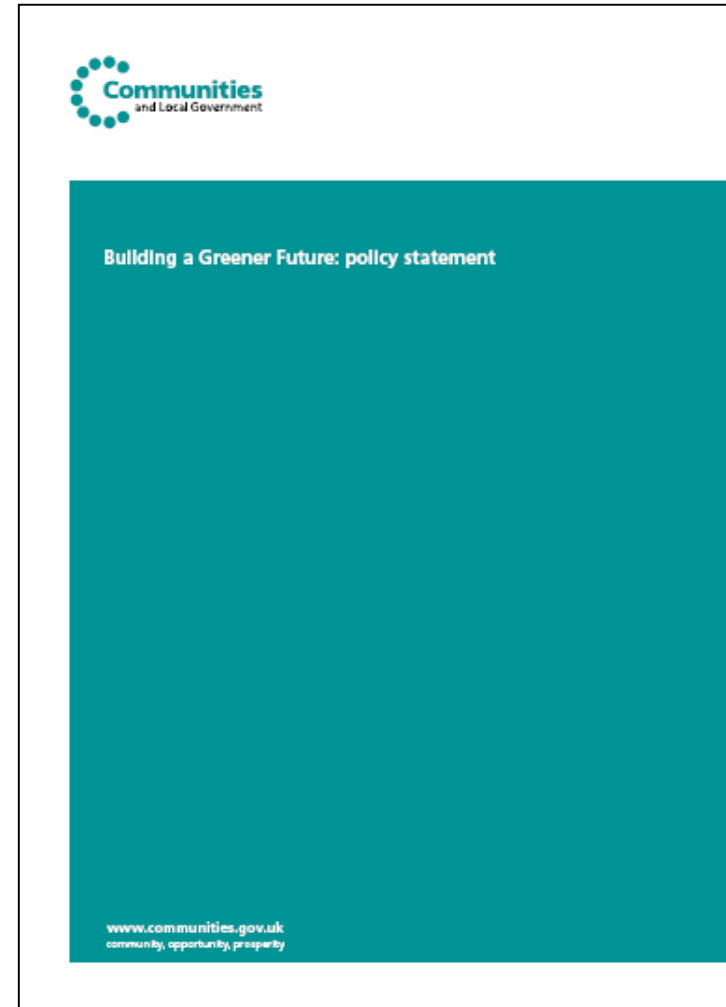
- “Tackling climate change is a key Government priority for the planning system”
- Local authorities “should expect a proportion of the energy supply of new development to be secured from decentralised and renewable or low-carbon energy sources”
- A material consideration in determining applications



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Zero Carbon New Homes

- By 2016 all new homes in England & Wales zero carbon
- Delivered through Building Regulations
- Interim CO₂ reductions in 2010 & 2013
- Zero net annual CO₂ emissions from all energy use in the home



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Zero Carbon New Homes

	2008	2010	2013	2016
New homes	2006 Part L	-25% CO ₂	-44% CO ₂	Zero carbon

2010

-25% CO₂ can be achieved without renewables

2013

-44% CO₂ possible without renewables, but less likely

2016

Zero carbon requires significant amounts of renewables

Zero Carbon New Homes

Housing Corporation targets

	2008	2012	2015
HC	-25% CO ₂	-44% CO ₂	Zero carbon

2010

-25% CO₂ can be achieved without renewables

2013

-44% CO₂ possible without renewables, but less likely

2016

Zero carbon requires significant amounts of renewables

Non-residential buildings

- Commissioned by CLG from UKGBC
- Published Dec 2007
- Proposed timetable for zero carbon new non-residential buildings
- Series of other recommendations
- Under consideration by Government



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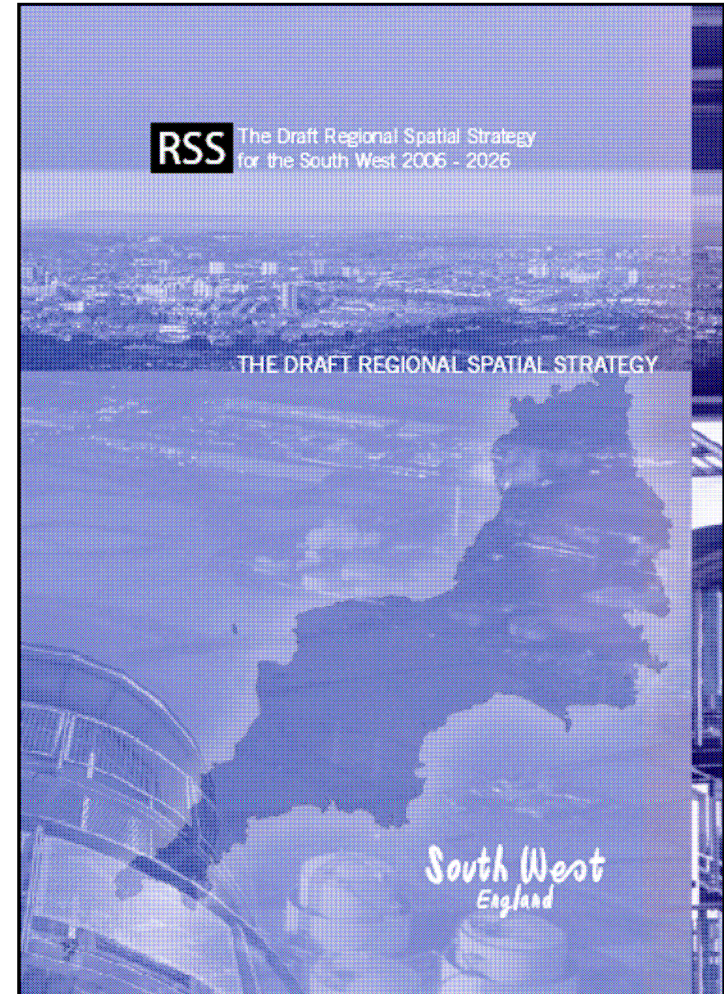
Non-residential buildings

	2008	2010	2013	2016	2020
Non-Residential	2006 Part L	-25% CO ₂	-44% CO ₂	-100% CO ₂	Zero carbon

Concluded that most non-residential buildings require offsite renewable energy generation to reach zero carbon because ratio of heat to electricity is much higher than homes

SW Regional Spatial Strategy

- 2006-2026
- To be incorporated into LDFs
- Ahead of national policy
- Supported by planning inspectors
- Currently with Government



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SW Regional Spatial Strategy

	2008	2011	2016
New homes	<p><10 -25% CO₂</p> <p>10+ -44% CO₂</p>	<p>10+ -100% CO₂</p>	
<p>Renewables - 20% Regulated emissions = 10-14% total</p>			
Non-Residential	<p>-25% CO₂</p>	<p>-34% CO₂</p>	<p>-44% CO₂</p>
<p>Renewables - 20% Regulated emissions = 12-17% total</p>			

Local authority targets

Local Authority	Target
Dartmoor National Park Authority	10%
Exeter City Council	10%
Exmoor National Park Authority	20%
Mid Devon District Council	"It is intended that all new development will be carbon neutral"
North Devon District Council	15% (Local Plan)
Plymouth City Council	10% up to 2010 15% from 2010-2016
South Hams District Council	10%
West Devon Borough Council	Level 5 of the Code for Sustainable Homes

The other councils in Devon are either in the very early stages of their LDFs or do not have specific targets for onsite renewable energy in their LDFs so far.

All policy – new homes

	2008	2010	2011	2012	2013	2015	2016
New homes	2006 Part L -25% CO ₂	-25% CO ₂			-44% CO ₂		Zero carbon
	<10 -25% CO ₂ 10+ -44% CO ₂		10+ -100% CO ₂				
Renewables - 20% Regulated emissions = 10-14% total							
HC	-25% CO ₂				-44% CO ₂		Zero carbon

All policy – non-residential

	2008	2010	2011	2013	2016	2020
Non-Residential	2006 Part L	-25% CO ₂		-44% CO ₂	-100% CO ₂	Zero carbon
	-25% CO ₂		-34% CO ₂		-44% CO ₂	
Renewables - 20% Regulated emissions = 12-17% total						

Concluded that most non-residential buildings require offsite renewable energy generation to reach zero carbon because ratio of heat to electricity is much higher than homes

Policy weblinks

Climate Change PPS

www.communities.gov.uk/documents/planningandbuilding/pdf/614742

Zero Carbon New Homes

www.communities.gov.uk/documents/planningandbuilding/pdf/building-greener

Non-residential Buildings

www.communities.gov.uk/documents/planningandbuilding/pdf/carbonreductionsreport

SW Regional Spatial Strategy

www.southwest-ra.gov.uk/media/SWRA/RSPTG/8th%20February%202007/PaperF_Appendix1.pdf

www.southwesteip.co.uk/downloads/FinalSouthwestEiP.pdf



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