



Llywodraeth Cymru
Welsh Government

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Nearer to Zero Conference

Wales' Climate Change Aims

Rhodri Asby, Deputy Director
Climate Change & Natural Resource Policy



Helpu Cymru i leihau
ei Hôl Troed Carbon
Help Wales reduce
its Carbon Footprint

Programme for Government



“This is our Welsh account of sustainable development: an emphasis on social, economic and environmental well-being for people and communities, embodying our values of fairness and social justice.”

‘to create a sustainable, low carbon economy for Wales’

Environment and Sustainability Chapter



The Dickinson family are helping Wales reduce its carbon footprint by installing a 1.05kW solar PV system in their home near Abergavenny. We are committed to improving the energy performance of homes in Wales to help communities find ways to reduce their reliance on fossil fuels.

Environment and Sustainability Aim

To become a “one planet nation”, putting sustainable development at the heart of government.

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“Reduce greenhouse gas emissions in areas of devolved competence and support effective adaptation to the impacts of climate change through implementation of the Climate Change Strategy. “

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Climate Change Action : a Necessity...

The European Commission estimates that the costs of not acting on climate change would be in the order 5-6% of the EU's GDP

77% of UK organisations affected by extreme weather at average cost of £52,770...

Future Welsh flooding costs likely to increase from £90m now.... to up to £200m in 2020

... and an Opportunity

UK sales in the green economy increased by 4.7% to £122.2 billion in 2010/11 in a **global market of £3.3 trillion**, placing the UK 6th globally.

Building technologies are the largest sector by sales and employment in the Green Economy It accounts for:

- **15.5% of Green economy sales** in Wales
- **36.4% of Low carbon sector sales**
- 15.1% of the Green Economy employment and
- 35.3% of employment in the low carbon sector.

Adaptation and resilience is an emerging and growing market - worth £2.1bn and employed 21000 people (Defra ECR study). The growth rate in 2010-11 was 3.9%, with this growth rate predicated to rise to 7.1% in 2017-18.

Climate Change Impacts



Increase in disruption of critical infrastructure (water, energy, transport)

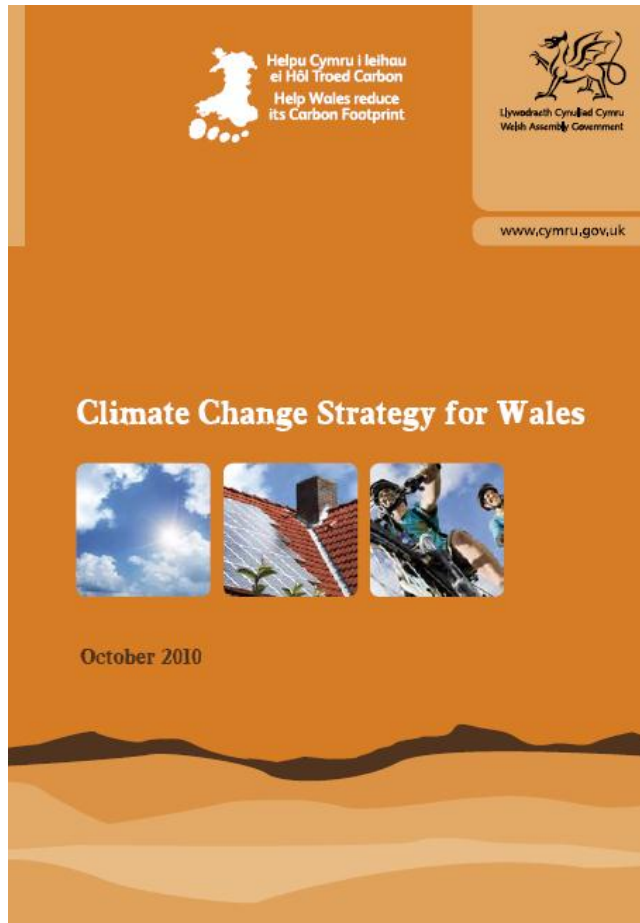
Heat effects within buildings and the urban environment

Potential reduction in winter heating demand (but increase in summer cooling)

Climate Change Impacts on the Built Environment

Threats	Central estimate			Confidence	Coverage [#]	Method ^{###}
	2020s	Timing 2050s	2080s			
Properties at risk of flooding	High	High	High	High	W	Q
Expected Annual Damage (EAD) to property due to flooding	High	High	High	High	W	Q
Ability to obtain flood insurance for residential properties	Medium	High	High	Medium	W	Q
Flood risk for Scheduled Ancient Monument sites	Low	Low	Medium	Medium	W	U
Increase in combination flooding	Not assessed			Low		
Increase in tide-locking of drainage outfalls	Not assessed			Low		
Combined Sewer Overflow spill frequency	Low	Medium	High	Medium	W	Q
Overheating of buildings	Low	Medium	High	Medium	W	Q
Damage from heating/drying	Not assessed			Low		
Increased subsidence risk due to rainfall changes	Low	Low	Medium	Medium	UK	Q
Increase in soil erosion and landslips	Not assessed			Low		
Effectiveness of green space for cooling	Low	Medium	High	Medium	UK	Q

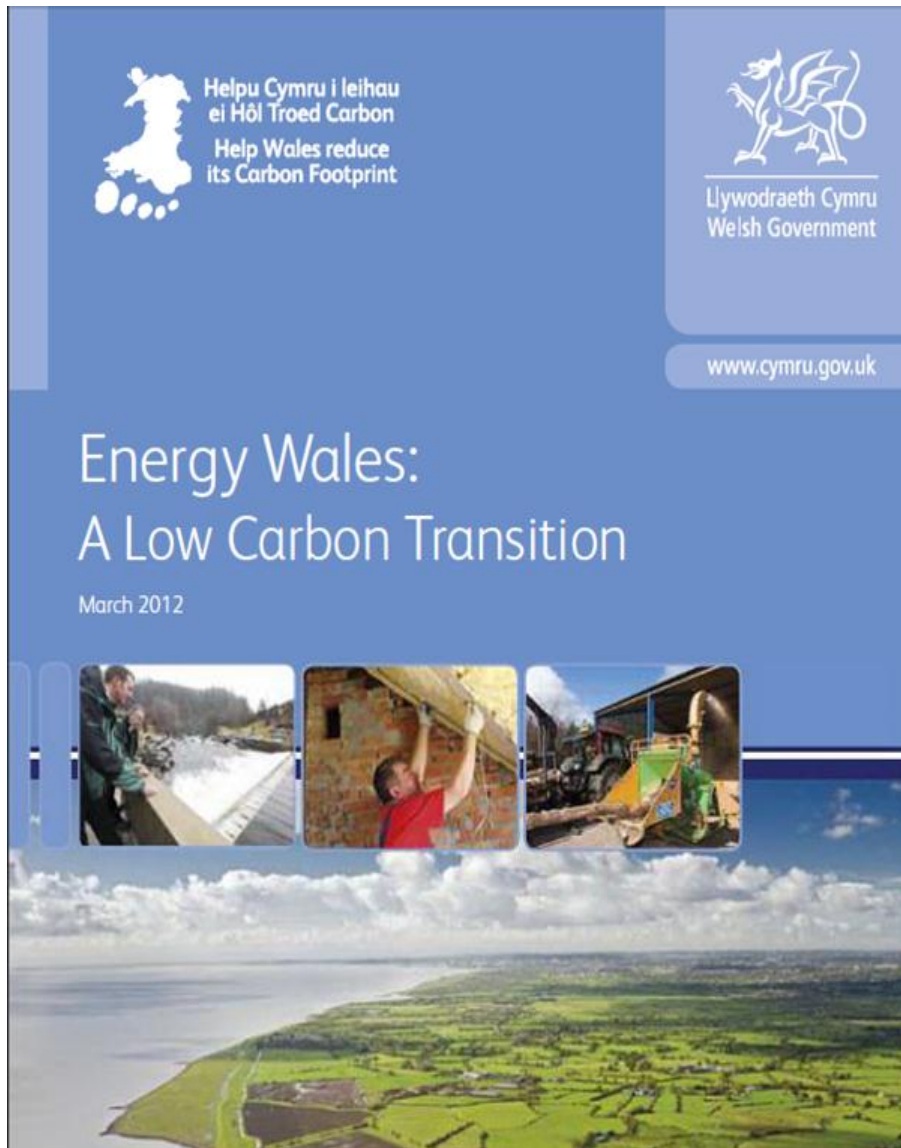
Climate Change Strategy



Headline Targets and aims

- Annual target 3% each year from 2011 (2006-2010 baseline)
- Overall emissions by 40% by 2020.
- Build Wales' resilience to the impacts of climate change

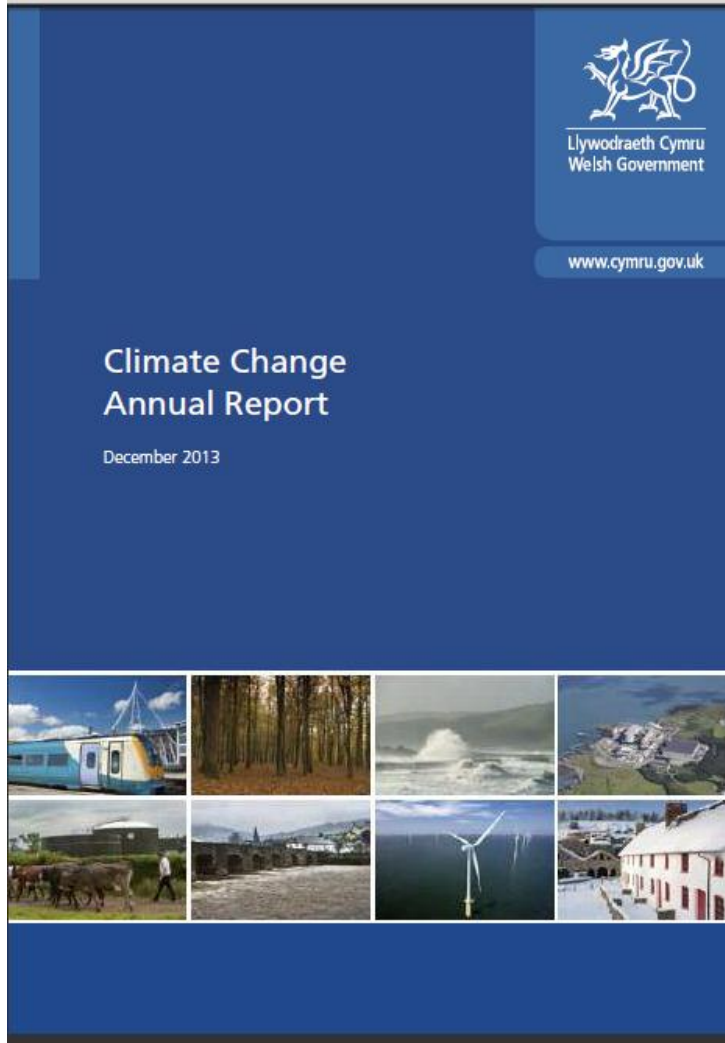
Energy Wales: A Low Carbon Transition



“our overall aim of achieving a low carbon economy and ...to ensure that in transition we deliver economic benefits and jobs, ensure real community benefits and carefully manage the interface with our natural environment“

“The pursuit of ever greater energy efficiency will be vital...essential to tackling fuel poverty and ensuring long term affordability – as well as substantial economic opportunity for Wales.”

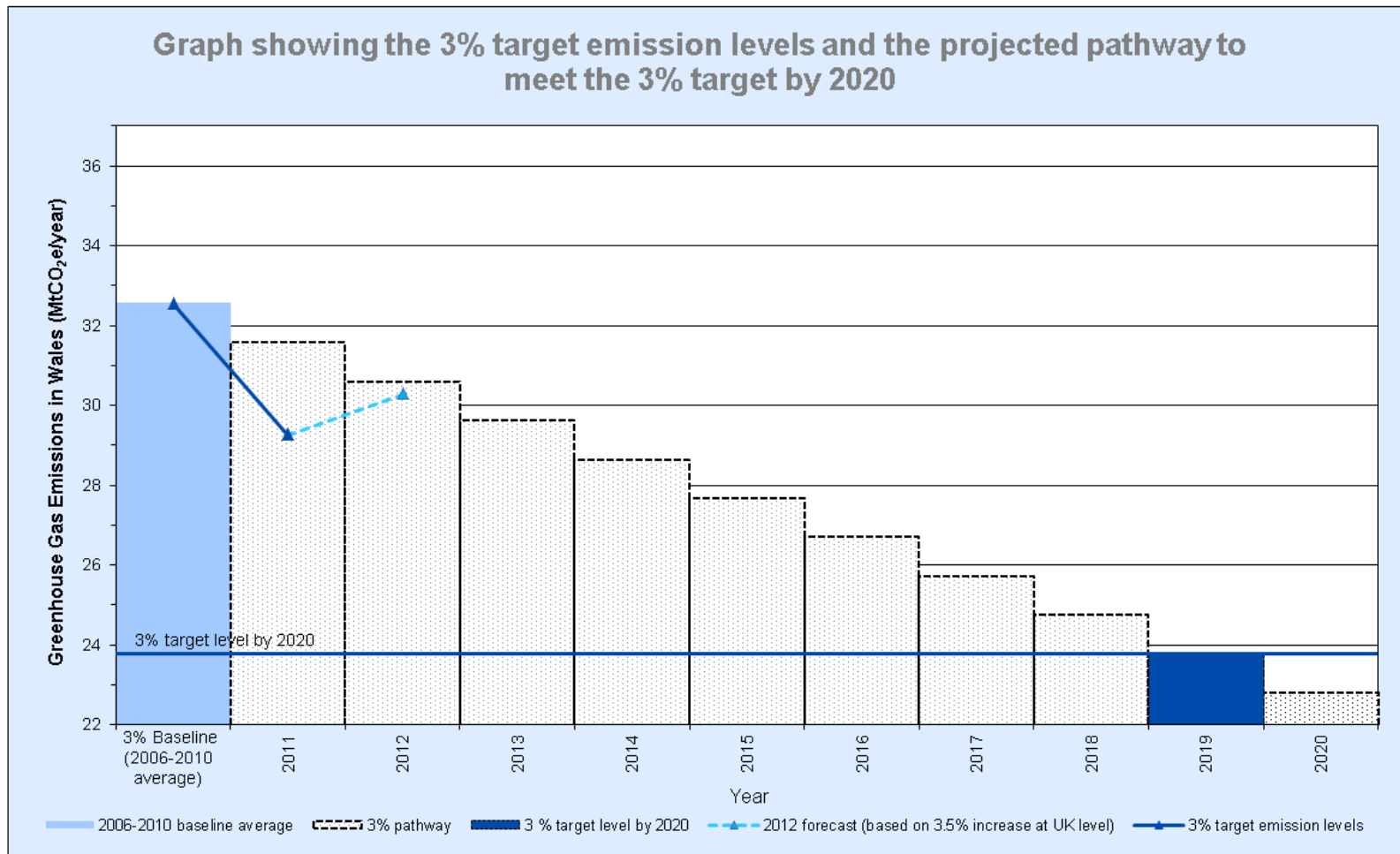
Progress to date



Climate Change Annual Report – Published December 2013

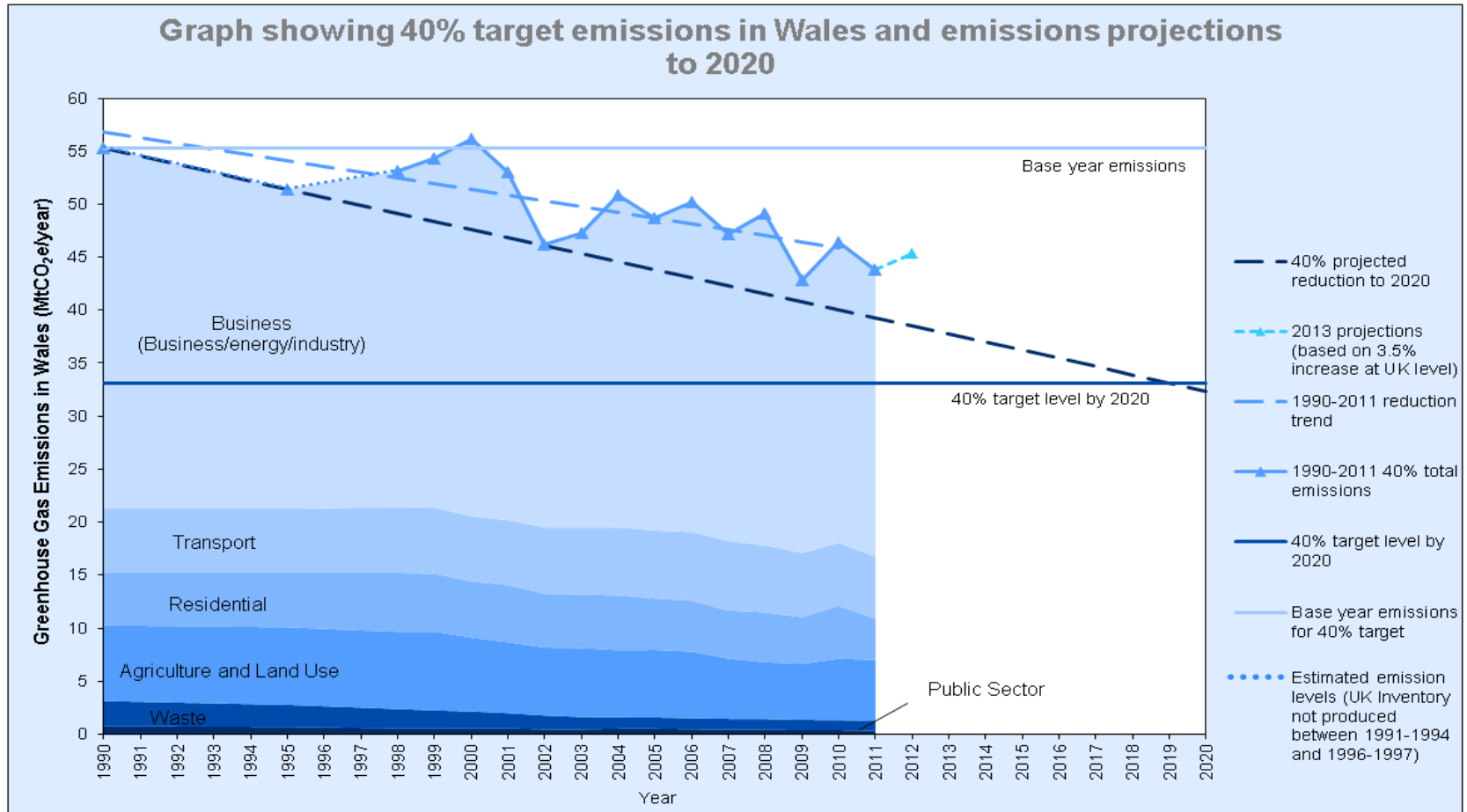
Sets out the progress against the Welsh Government's emissions target and the key actions taken on mitigation and adaptation

3% Annual Emissions Reduction Target



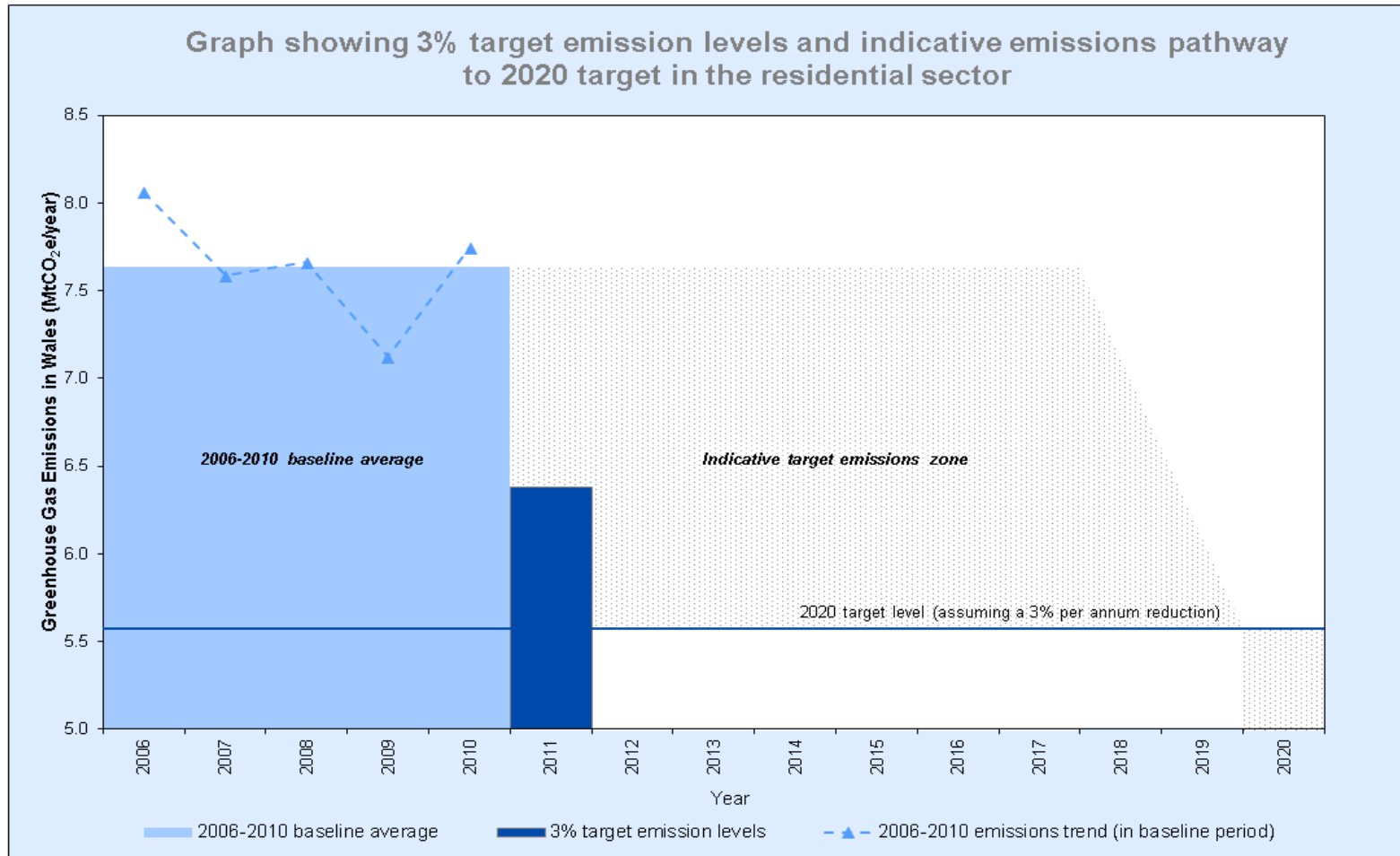
In 2011, emissions were reduced by **10.1%**.

40% Emissions Reduction Target by 2020



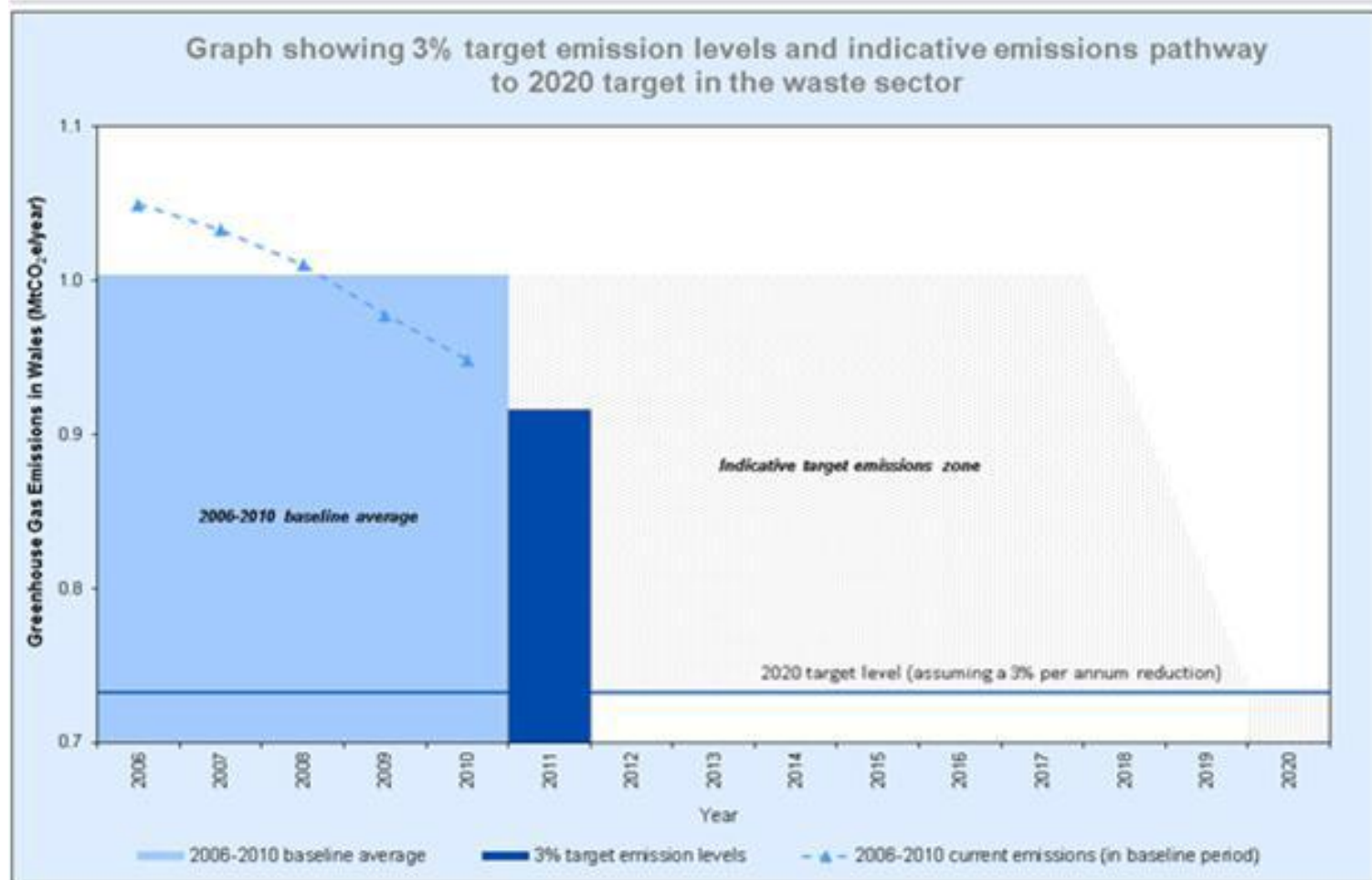
The annual average decline in emissions is 1.03% per year since 1990 which represents a 20.6% reduction in total emissions

Residential Sector Breakdown



The sector is responsible for approximately **22%** of emissions covered by our 3% reduction target. For 2011, the sector reduced emissions by 16.5%.

Resource Efficiency & Waste Sector



The resource efficiency and waste sector is responsible for approximately **3.1%** of emissions covered by our 3% reduction target. The sector have reduced emissions by **8.8%** compared to the baseline.

Next Steps

“Wales is making good progress...and doing so in a way that also benefits our economy and communities...but we recognise that there is still much to be done.”

“I will be refreshing our climate change policy to ensure we can not only meet the challenge posed by climate change, but also maximise the opportunity to secure greater prosperity for Wales...and focus on the practical action we can take to build the resilience and prosperity of communities right across Wales”

Alun Davies, Minister for Natural Resources & Food

Priorities Going Forward

Shaping a more
Prosperous and
Resilient Future



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Welsh Government

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Department for Natural Resources
and Food

A focus on:

- *Green Growth*
- *Using Resources Efficiently*
- *Enhancing Resilience & Diversity*
- *Tackling Poverty*



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**Thank you /
Diolch**

Further Info:

<http://wales.gov.uk/topics/environmentcountryside/climatechange>



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