



Renewables - the evolving national picture and vision

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Switch for Good

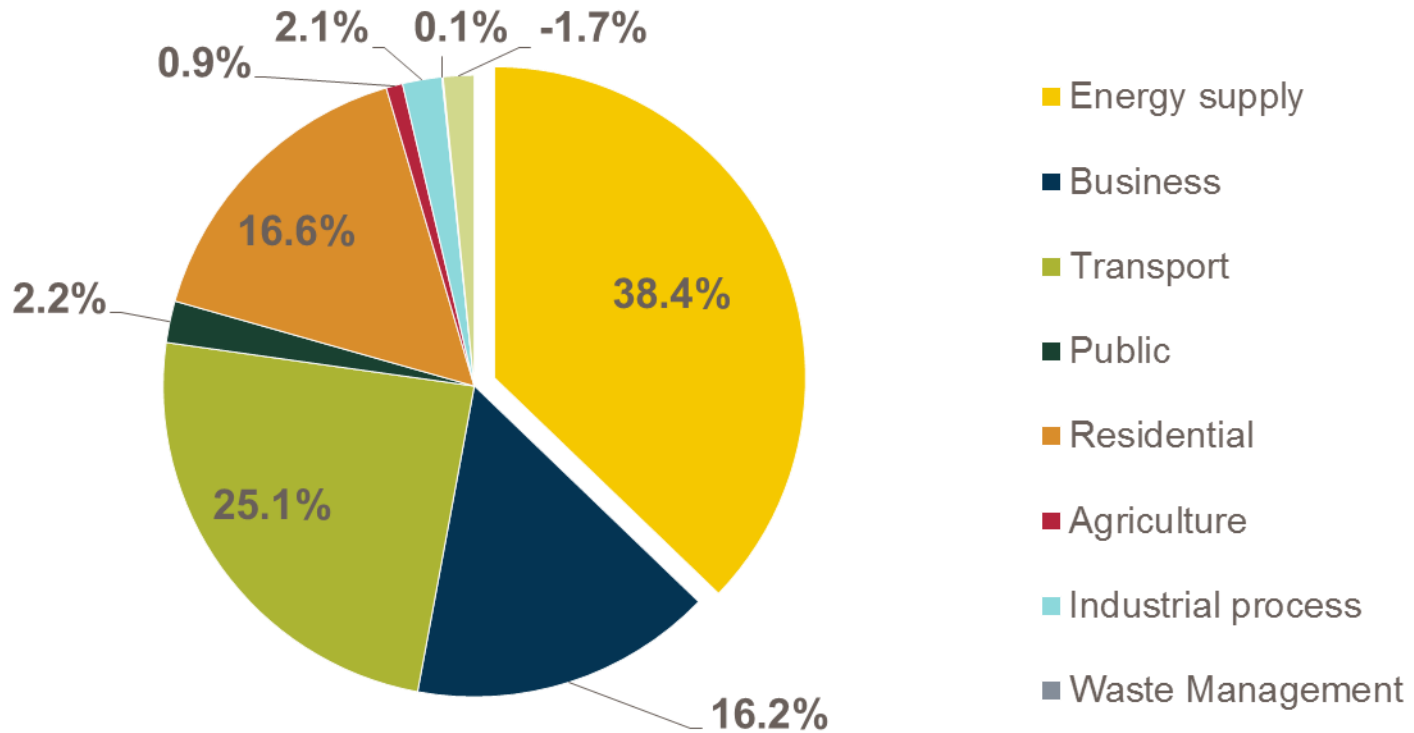


The climate clock is ticking





Emissions by sector



**Climate change is
an energy problem!**



Government carbon emissions targets

These targets are the **most ambitious** of any other country in Europe

Carbon targets

a **34%** cut in carbon emissions by 2020



Renewables targets

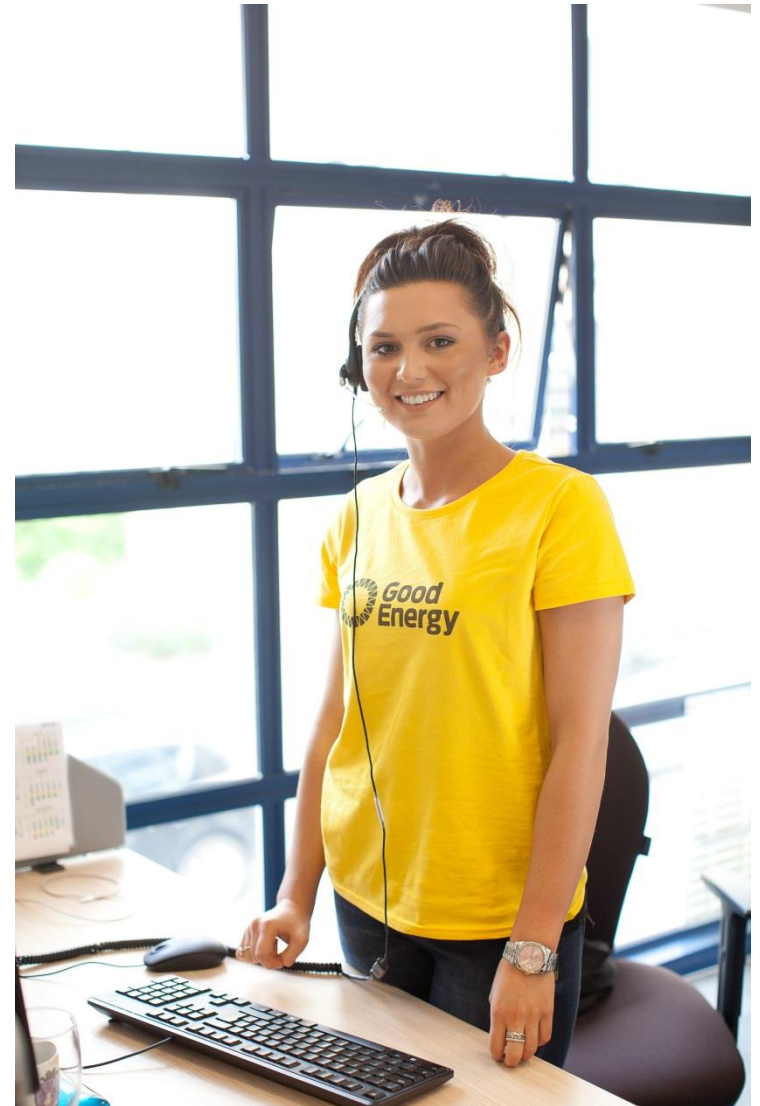
increase renewable energy to **20%** by 2020





A consumer response to climate change

- Generating and selling 100% renewable electricity to homes, communities and businesses across the UK
- Changing how the UK generates and uses energy
- Leading a fundamental shift of power from the big to the small (decentralised energy)
- Provide a blueprint for how the energy market in the UK can be





The end of the fossil fuel era?



Global energy statistics released by BP recently, show 2014 was the first time in history that renewable energy made a bigger contribution to growth in global energy production than fossil fuels!





Breaking renewable records



Friday 5th June – solar generated 35,450 MWh - enough to power **3 million homes** for 1 day

Saturday 6th June - wind and solar provided 13.4 GW at 2pm – equal to **43%** of power supply (beating coal and gas)





Solar: a success story

- Costs fallen by approx 30% in last two years
- Solar PV is forecast to become cheaper than CCGT between 2018 and 2023



- End of April 2015, 6.6GW of solar capacity in the UK –
- up from 4.1GW at the same time last year and just 38MW (0.038GW) at the end of April 2010

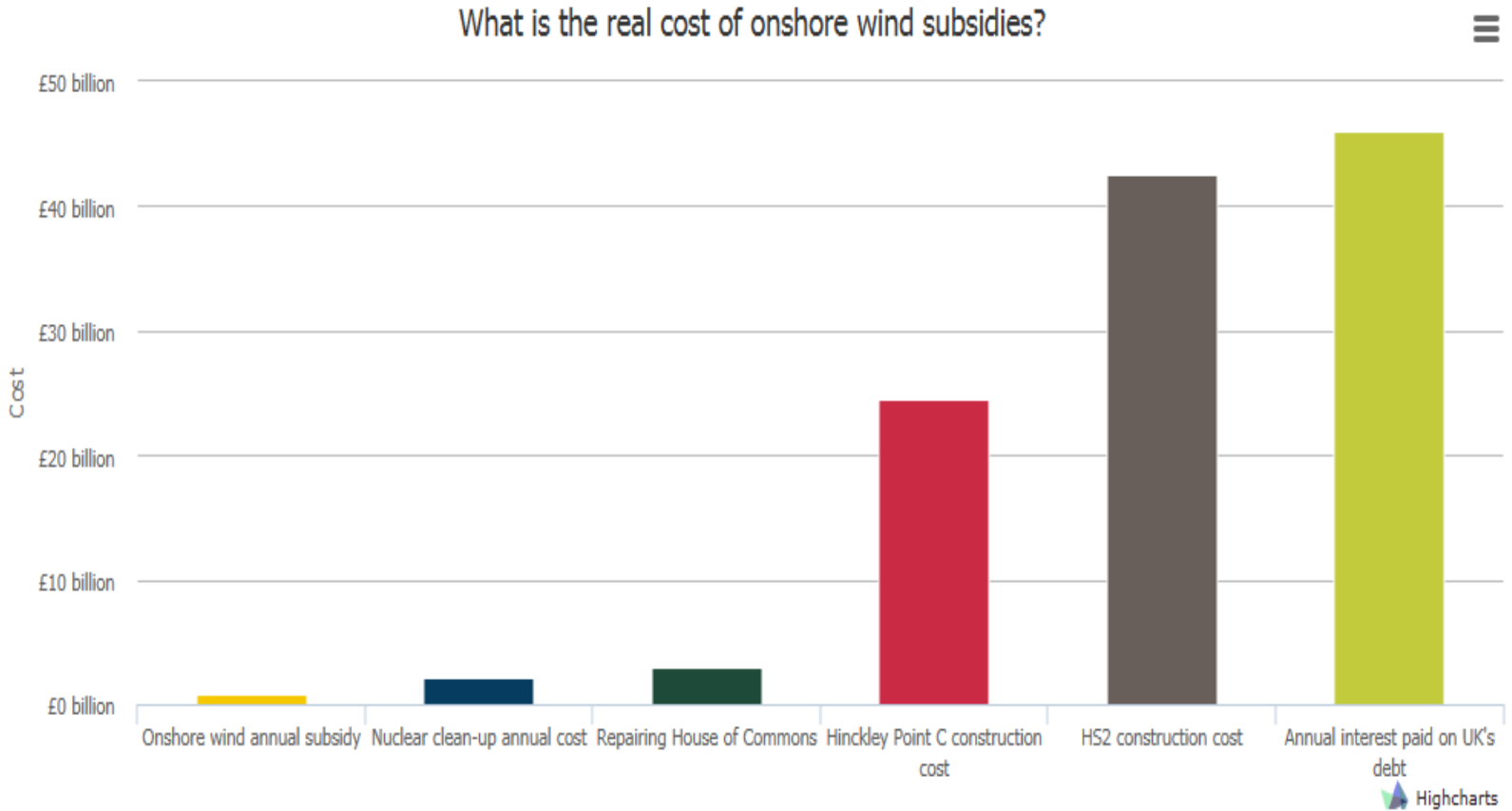


BUT.....





Putting onshore wind costs into context





Case study: Chase Community Solar

- Community share offer – raise funds to install solar on bungalows in Staffordshire



- £750,000 investment target reached
- Around 300 low-income homes to get free electricity solar PV
- Pioneering partnership with Cannock Chase Council



Piclo – new possibilities for community energy

- Piclo – a marketplace for 100% renewable energy, first step towards a truly open energy system – from generation right through to consumption
- Eg a community energy project could pick who they sell their power to and for what price





Feed-in Tariff

- *“It's a quiet revolution begun by ordinary people with the stuff of our daily lives.”* Bill McKibben
- Good Energy supports 76,000 Feed-in Tariff (FIT) sites across the UK
- There are now over 610,000 solar PV installations in the UK, accounting for 99% of Feed-In-Tariff contracts.



PV array on Stockport Housing Association



Delabole local tariff

- UK's first local tariff to reward households near its wind farms with lower electricity bills
- Offers electricity at 20% less than Good Energy's standard tariff
- Template for our second local tariff - at Hampole wind farm





What's next? Shaping the future of energy

- We hope to purchase 10% of the tidal lagoon's output



- Exploring shared ownership at some of our proposed generation sites
- Leading a project trialling battery storage technology – storing solar electricity and using it when the sun isn't shining

