

**100% CLEAN
ENERGY IS 100%
POSSIBLE.
HERE'S HOW.**



The Climate Coalition is the UK's largest group of people dedicated to action on climate change and to limiting its impact on the world's poorest communities. The combined number of supporters in our 100+ member organisations is more than 15 million people.

We want a world powered by 100% clean energy within a generation. This means ending pollution from fossil fuels by the middle of this century, and building an energy system powered by clean resources like the wind, sun and tides. We will also need to reduce demand for energy, investing in warm homes and smart technology.

Here, we show that our vision is not only desirable but possible.

In the UK in 2015, the renewable industry employed an estimated 117,000 people, and drove £15 billion of investment. Renewables now generate a quarter of our electricity, and the cost of these technologies continues to fall.

Yet a 100% clean energy system is still not within reach, according to the Committee on Climate Change.¹ The

government recognises that its current policies are not sufficient to continue the good progress made so far, and it has promised a new carbon plan. This plan needs to give businesses, communities and individuals the confidence to invest and play their part in the UK's energy transition.

The UK has been at the forefront of climate action. At a summit in Paris, in December 2015, we joined the rest of the world in aiming to limit global warming to 1.5°C above pre-industrial levels. In September 2016 the UK committed to ratifying this treaty before the end of the year.

We applaud the government for its rapid progress on ratifying the Paris Climate Agreement. The next step is for the UK to get on track to deliver 100% clean energy within a generation.

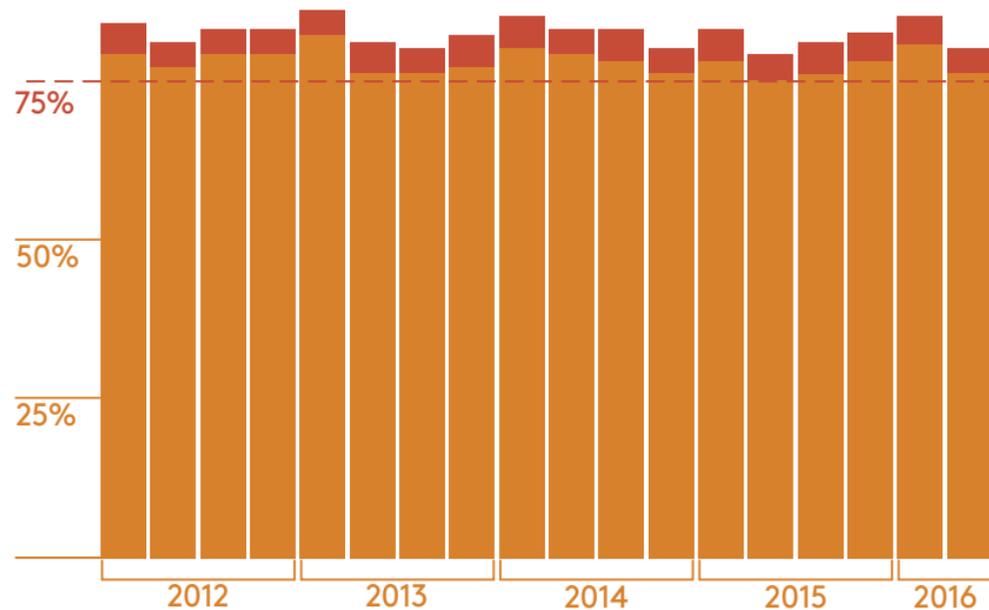
The government must now publish an ambitious low carbon investment plan, to transform the economy in line with the Climate Change Act.

**100% CLEAN
IS DESIRABLE**

Opinion polls show a steady, high level of public support for renewables²

Public support remains above 75%, despite extensive negative media coverage

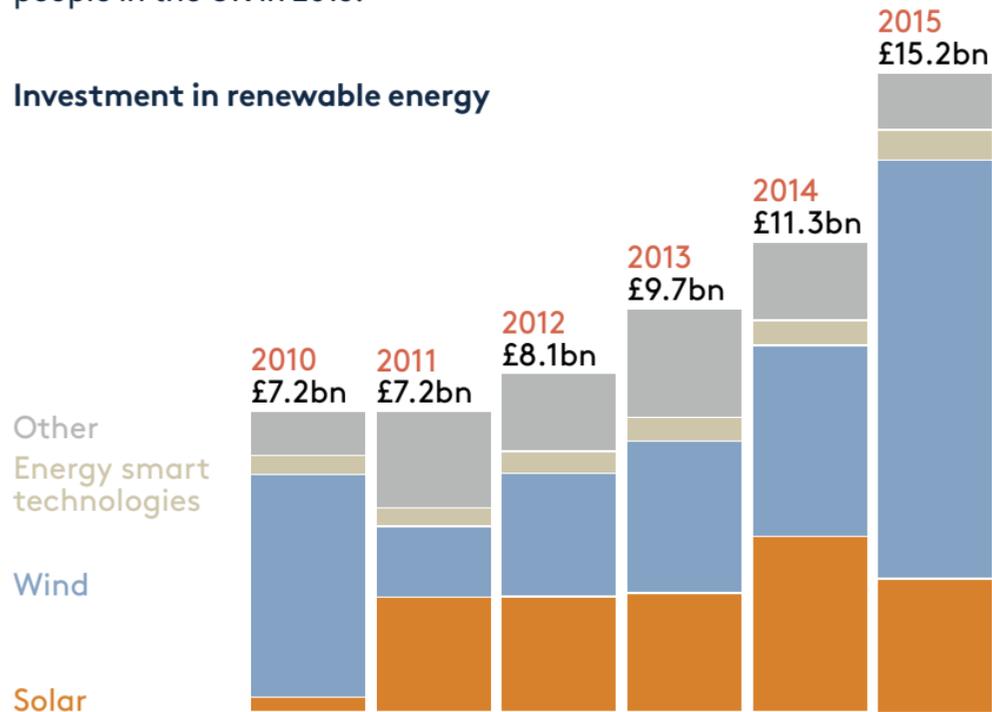
■ Oppose ■ Support



Renewables have driven billions of pounds of investment³

One company alone, DONG, will have committed £6 billion to develop offshore wind in the Humber region by 2020.⁴ And investment creates jobs: the renewable industry employed an estimated 117,000 people in the UK in 2015.⁵

Investment in renewable energy



Faith leaders say climate action is a moral obligation

“Our faith calls us to care for creation and respect the environment created by God. It is our duty to care for our planet so that our children and our grandchildren can enjoy it as we have done, and because it is the world’s poorest people who are already suffering the impacts of a changing climate.”

Rt Rev Nicholas Holtam, Bishop of Salisbury; Rabbi Laura Janner-Klausner, Senior Rabbi to Reform Judaism; Shaykh Ibrahim Mogra, Assistant Secretary General, Muslim Council of Britain; and Rt Rev John Arnold, Catholic Bishop of Salford
Letter to The Daily Telegraph, 16 June 2015

“The warming caused by huge consumption on the part of some rich countries has repercussions on the poorest areas of the world, especially Africa, where a rise in temperature, together with drought, has proved devastating for farming. ... There is an urgent need to develop policies so that, in the next few years, the emission of carbon dioxide and other highly polluting gases can be drastically reduced, for example, substituting for fossil fuels and developing sources of renewable energy.”

Pope Francis
Laudato Si’ Encyclical, 18 June 2015



In December 2015, at the Paris climate conference, 195 countries adopted a legally binding global deal

“This Agreement ... aims to strengthen the global response to the threat of climate change ... by ... holding the increase in the global average temperature to well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change.”

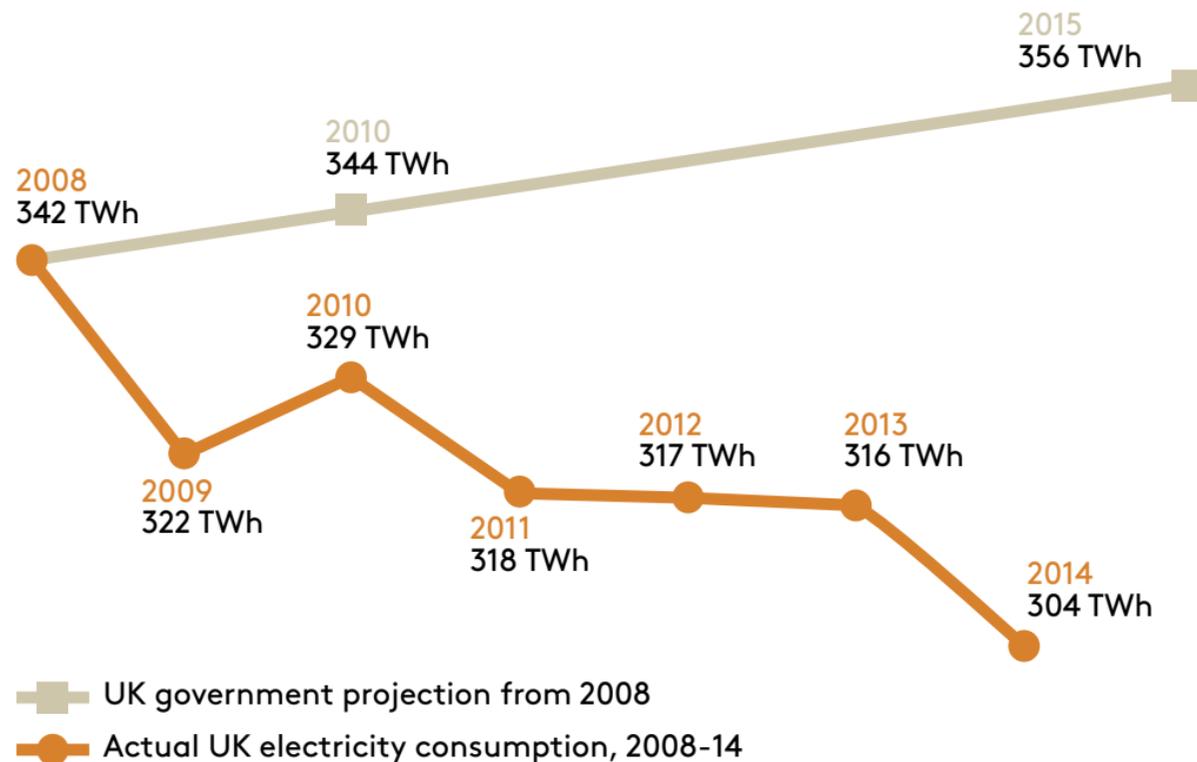
The Paris Agreement



**100% CLEAN
IS POSSIBLE**

**We can grow the economy
whilst reducing energy waste
– it's happening already⁶**

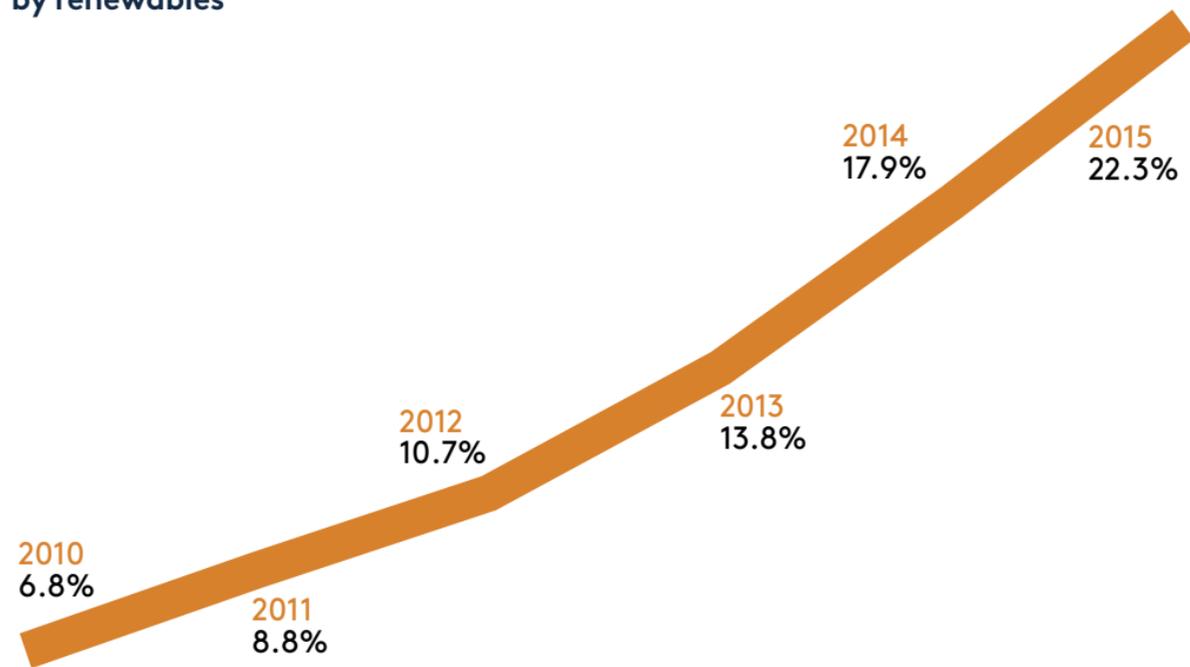
For example, fridges are getting more efficient, meaning less electricity is used to keep our food fresh.⁷



**Renewable energy is quick to install
and has a proven track record⁸**

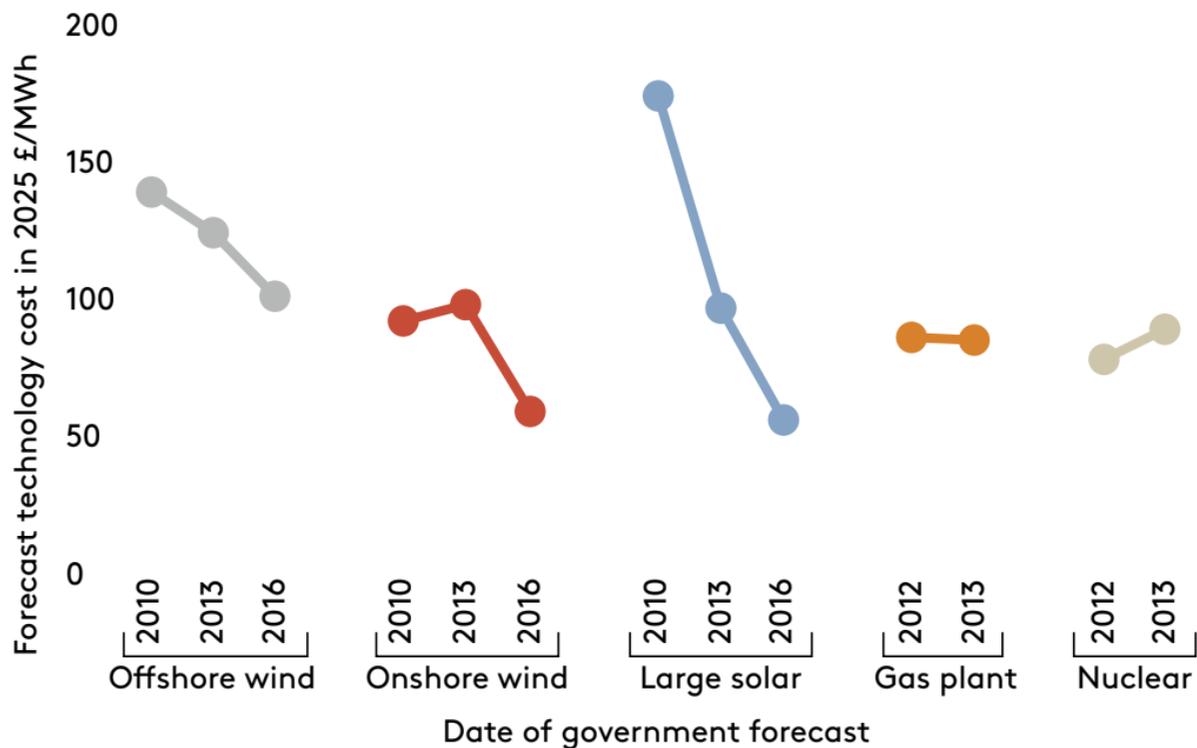
2.5 GW of UK offshore wind was built in, 2014 alone. Enough energy to power two million homes.⁹

Proportion of UK electricity supplied by renewables



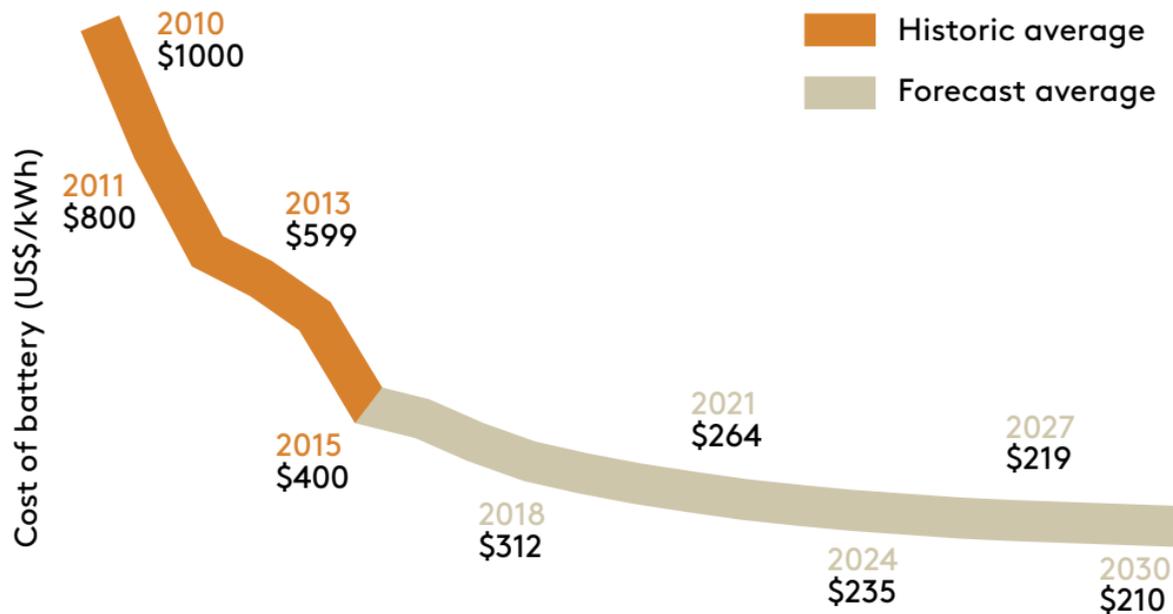
Renewable energy costs are expected to fall below the costs of gas and nuclear by the mid-2020s

Government forecasts for what the cost of renewables will be in 2025 keep falling, while the expected costs of nuclear and gas have stayed flat or risen.¹⁰



Smart, innovative technologies will revolutionise our electricity system

New battery technologies can store excess solar and wind power, to be used later when the sun goes down or the wind drops. These technologies are evolving rapidly. This graph shows lithium-ion battery prices falling fast.¹¹



“The world’s next energy revolution is probably no more than five or ten years away. Cutting edge research into cheap and clean forms of electricity storage is moving so fast that we may never again need to build 20th century power plants in this country.”

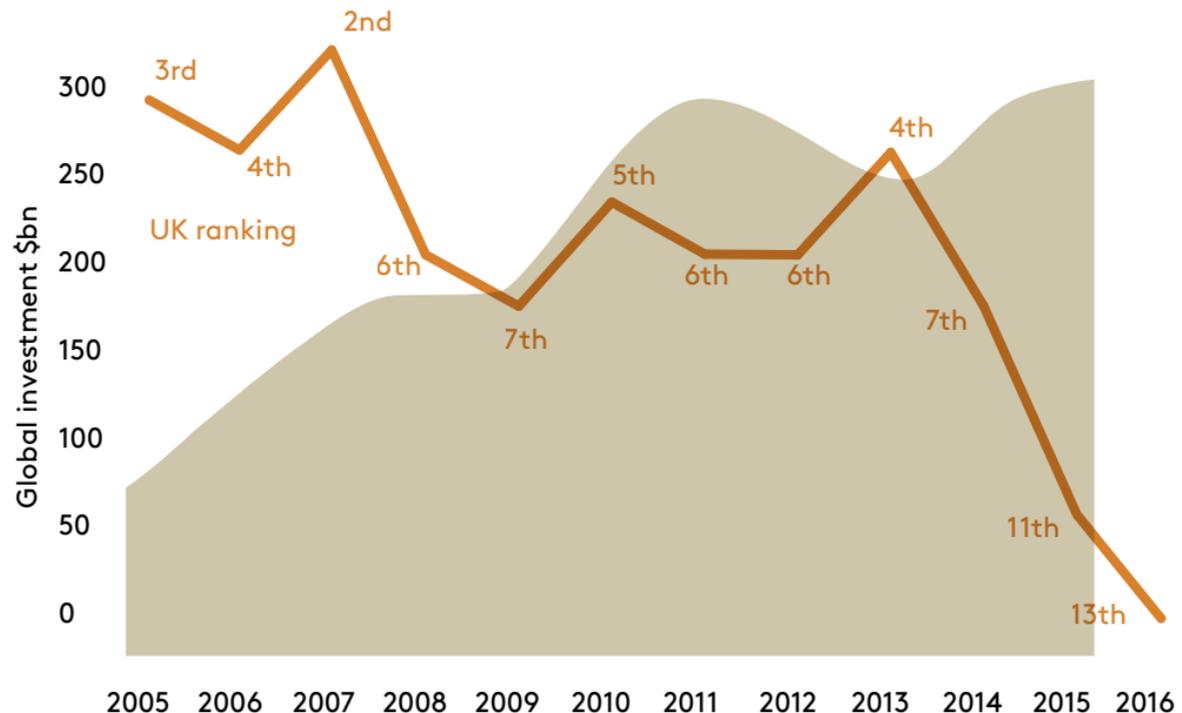
Ambrose Evans-Pritchard, international business editor of The Daily Telegraph, 10 August 2016



**BUT 100%
CLEAN IS STILL
WITHIN REACH
IN THE UK**

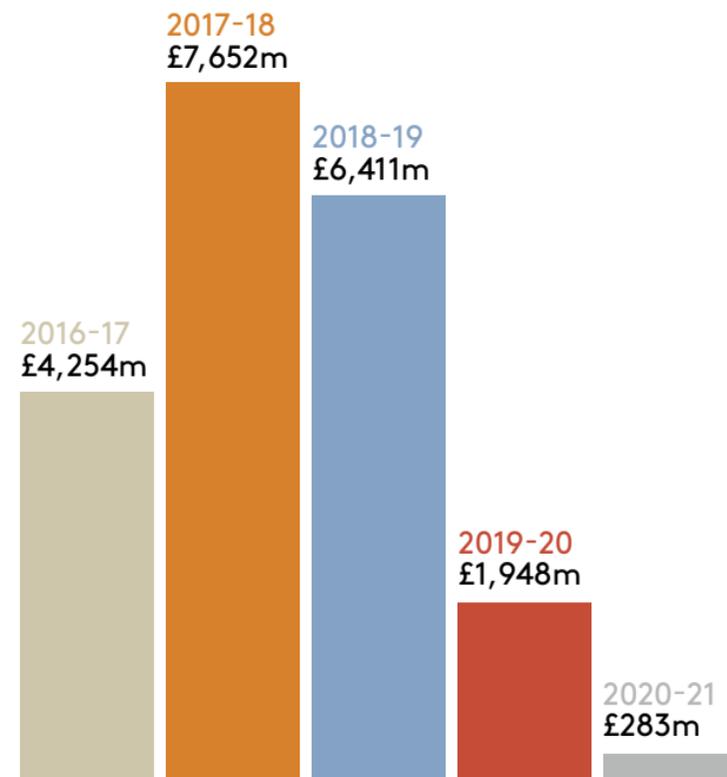
While the rest of the world moves forward, the UK has fallen to 13th place in a key measure of investor confidence in renewables, below developing countries like Mexico and South Africa

UK ranking in the EY renewable energy country attractiveness index vs global investment in renewables¹²



In the next few years, renewable investment is set to stall in the UK – it is projected to peak in 2017 and then plummet by 96%¹³

Value of renewable energy projects in the National Infrastructure Pipeline 2016



Investors need clearer signals from government

“There is now a chance to really embed the low carbon transition into the UK’s broader industrial strategy ... We still need to attract huge sums of private investment to keep the lights on and diversify our power mix, and we must maintain momentum on progress made so far. This is not about government hand outs, rather timely policy decisions.”

Barnaby Wharton, senior energy and climate change policy adviser for the CBI, which represents British businesses, July 2016



The UK needs to get on track to deliver 100% clean energy within a generation

Please urge the government to publish an ambitious low carbon investment plan, to transform the economy in line with the Climate Change Act.

Thank you.

Endnotes

- 1 Committee on Climate Change, June 2016, Meeting carbon budgets – 2016 progress report to parliament
- 2 DECC, April 2016, Public attitudes tracking survey: wave 17
- 3 Data from BNEF, cited by S Evans, 2016, Analysis: record UK renewable energy investment overtakes North Sea spend, Carbon Brief
- 4 DONG Energy, press release, 18 November 2015, 'DONG Energy to invest £6 billion in Humber by 2019'
- 5 Renewable Energy Association, 2016, Renewable energy: why wouldn't you?
- 6 A Mount and D Benton, October 2015, Getting more from less: realising the potential of negawatts in the UK electricity market, Green Alliance; updated data from DECC, 2016, 'Electricity supply, availability and consumption, 1970 to 2015' (Digest of United Kingdom energy statistics 2016, 5.1.2)
- 7 Energy Saving Trust website, accessed on 24 August 2016
- 8 DECC, July 2016, Digest of United Kingdom energy statistics 2016, p159
- 9 D Benton, November 2015, Achieving large volume, least cost, low carbon electricity in the 2020s, Green Alliance
- 10 National Audit Office, July 2016, Nuclear power in the UK, p26, (central estimate)
- 11 National Grid, 2016, Future energy scenarios
- 12 A Francis, A Harper and C Poggi, June 2016, Will the UK economy succeed in a low carbon world?, Green Alliance
- 13 Infrastructure and Projects Authority, National Infrastructure Pipeline, Spring 2016

100% clean energy
within a generation



The Climate Coalition
c/o Oxfam
3rd Floor North
Victoria Charity Centre
11 Belgrave Road
London
SW1V 1TU

+44 (0)20 7802 9989
admin@theclimatecoalition.org
www.theclimatecoalition.org



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by Green Alliance

Green Alliance
11 Belgrave Road
London, SW1V 1RB
020 7233 7433
ga@green-alliance.org.uk
www.green-alliance.org.uk

blog: greenallianceblog.org.uk
twitter: @GreenAllianceUK

The Green Alliance Trust is a registered
charity 1045395 and company limited by
guarantee (England and Wales) 3037633,
registered at the above address

Author
Amy Mount, with research support from
Danial Sturge

Designed by Howdy

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