



Industrial Strategy: Clean Growth Grand Challenge

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The Clean Growth Strategy

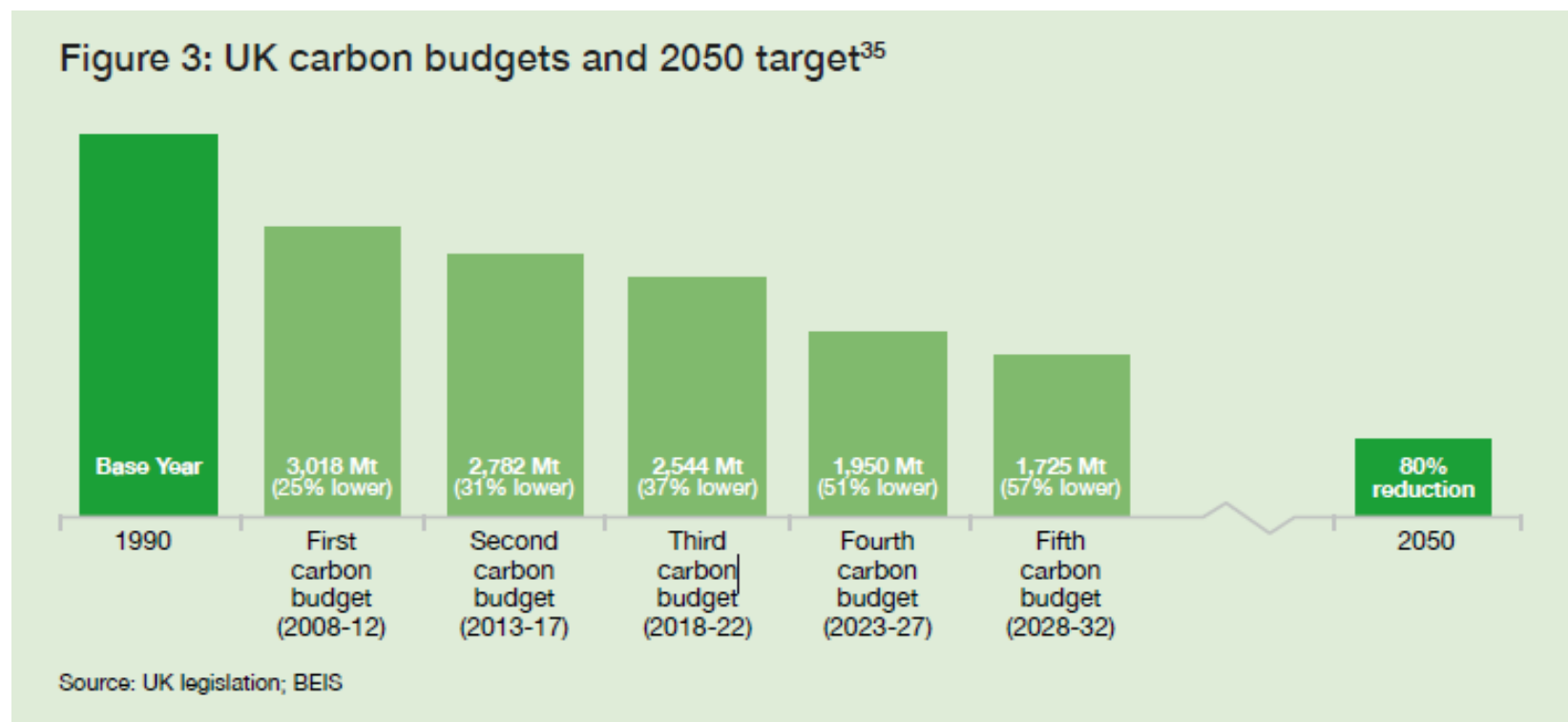


An ambitious **blueprint for lowering carbon emissions, protecting the environment** and meeting our climate change obligations while **stimulating growth and prosperity**, increasing **earning power** and **creating and supporting thousands of jobs**.

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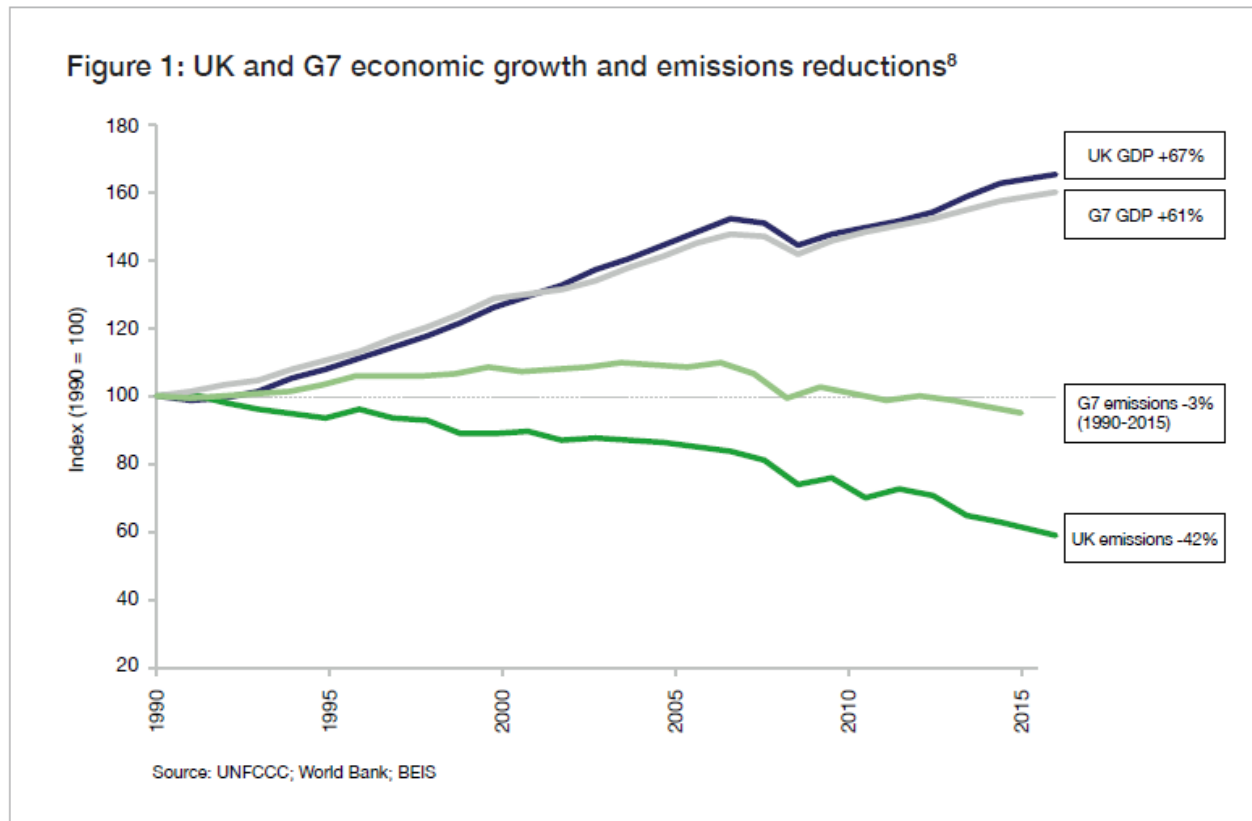
Challenge ahead



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Building on good progress



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What's in the Strategy?

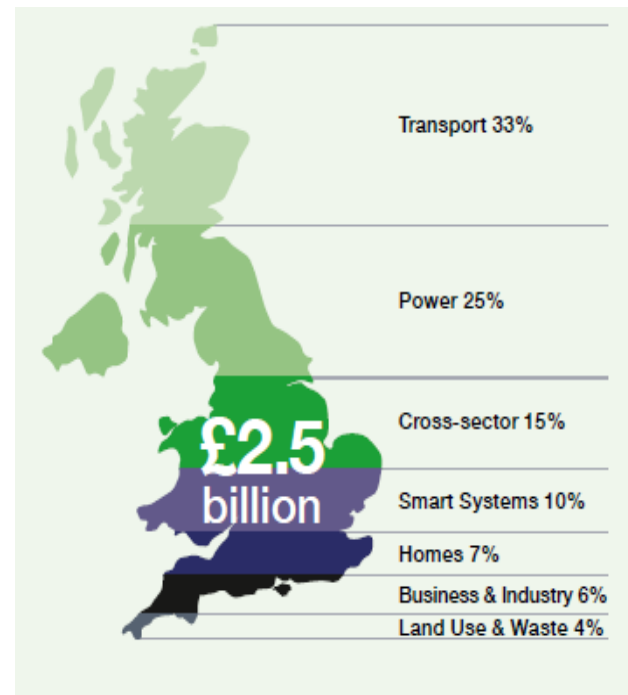
 <p>Business and industry efficiency Package of measures to improve business energy efficiency by at least 20% by 2030 – cutting costs and improving productivity.</p>	 <p>Improving our homes Households to benefit from lower bills and warmer homes with aspiration for as many homes as possible to be EPC Band C by 2035.</p>
 <p>Low carbon transport End the sale of new conventional petrol and diesel cars and vans by 2040. £1 billion to support the take-up of ultra low emission vehicles.</p>	 <p>Clean, smart, flexible power Investing in renewables such as offshore wind, with up to half a billion pounds for further auctions. Phasing out use of unabated coal to produce electricity by 2025.</p>
 <p>Enhancing our natural resources Future system of agricultural support to focus on delivering better environmental outcomes, including addressing climate change more directly.</p>	 <p>Leading in the public sector Introduce a voluntary public sector target of 30% reduction in carbon emissions by 2021.</p>

Clean Growth Strategy: Innovation



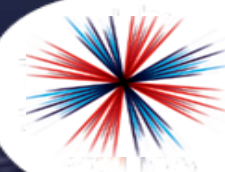
Over £2.5 billion of Government funding will be invested in low carbon innovation up to 2021, part of the largest increase in public spending on science, research and innovation in over 30 years.

The Strategy sets out, for the first time, where Government funding is targeted



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Clean Growth in the Industrial Strategy



**INDUSTRIAL
STRATEGY**

Industrial Strategy: Overview



We will create an economy that boosts productivity and earning power throughout the UK:



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We will set Grand Challenges to put the future of the UK at the forefront of the industries of the future:

- AI & Data Economy**
We will put the UK at the forefront of the artificial intelligence and data revolution
- Future of Mobility**
We will become a world leader in the way people, goods and services move
- Clean Growth**
We will maximise the advantages for UK industry from the global shift to clean growth
- Ageing Society**
We will harness the power of innovation to help meet the needs of an ageing society

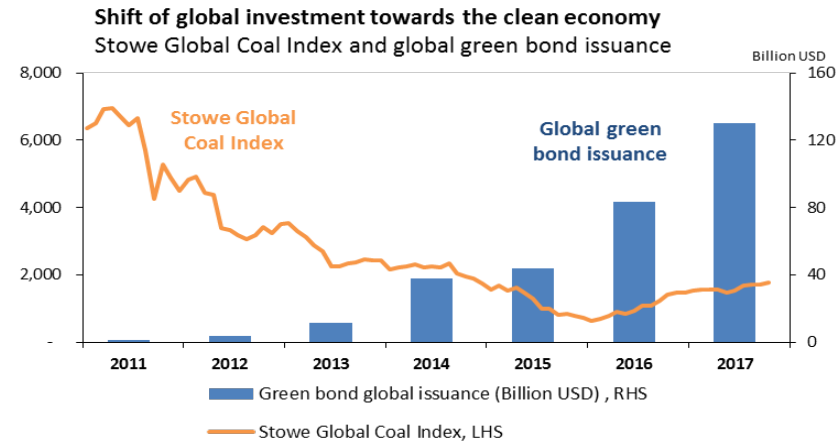
Context for Clean growth

The move to cleaner economic growth is one of the greatest industrial opportunities of our time.

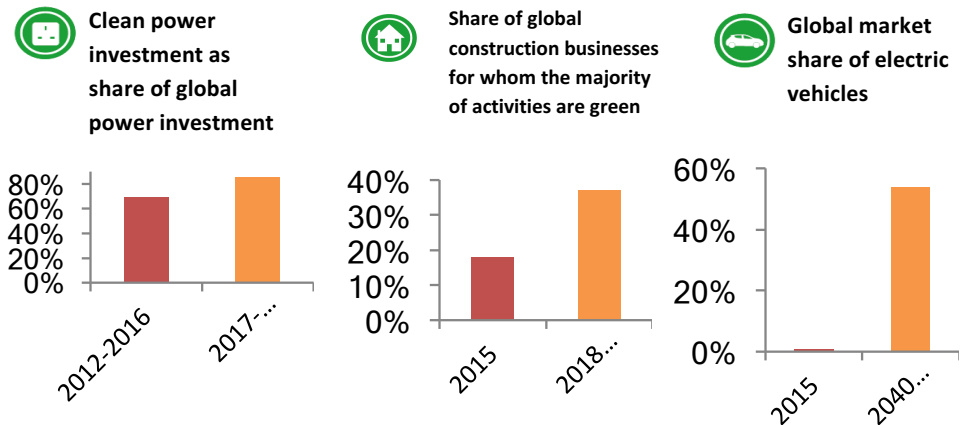
The Paris Agreement of 2015 commits countries to revolutionising power, transport, heating and cooling, industrial processes and agriculture.

The effect of these changes will be felt by businesses throughout the economy, and will involve the reallocation of trillions of pounds of public and private finance towards the pursuit of cleaner growth.

We will aim to maximise UK businesses' share of global markets as they are transformed by the shift to clean growth.



The clean economy's growing share of global markets





Clean Growth Grand Challenge

We will maximise the advantages for UK industry from the global shift to clean growth – through leading the world in the development, manufacture and use of low carbon technologies, systems and services that cost less than high carbon alternatives

We will take action to establish and extend UK leadership in the following early priority areas:

- develop smart systems for cheap and clean energy across power, heating and transport
- transform construction techniques to dramatically improve efficiency
- make our energy-intensive industries competitive in the clean economy
- put the UK at the forefront of the global move to high-efficiency agriculture
- make the UK the global standard-setter for finance that supports clean growth
- develop UK leadership in low carbon transport across road, rail, aviation and maritime

We will:

- *increase our support for innovation so that the costs of clean technologies, systems and services are reduced across all sectors,*
- *align our policies, regulations, taxes and investments to grow the markets for these new innovations so that they are successfully commercialised in the UK.*

Our long-term goals are to make clean technologies cost less than high carbon alternatives, and for UK businesses to take the lead in supplying them to global markets.

Industrial Strategy Challenge Fund

- Industry-led and powered by multi-disciplinary research and business academic collaboration
- Developing UK industries that are fit for the future, driving progress in technologies where the UK can become a world-leader in research and commercialisation
- Not business as usual.....
 - Focussed on improved productivity and economic benefit across the UK
 - Clear, measurable Challenge statements
 - Needs clear industry buy-in to delivering ambitious outcomes

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Wave 1 challenges



Medicines manufacturing technologies

Robots for a safer world



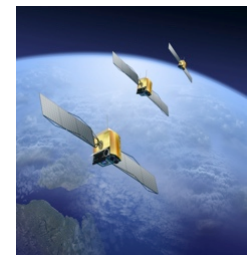
Batteries for clean and flexible energy storage

Self-driving vehicles



Manufacturing and materials of the future

Satellites and space technology



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Wave 2 challenges

Transforming construction



Data to early diagnosis & precision medicine



Transforming food production



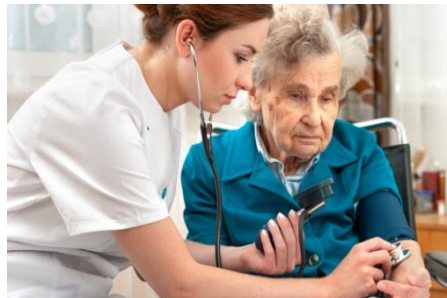
Next generation services



Energy revolution



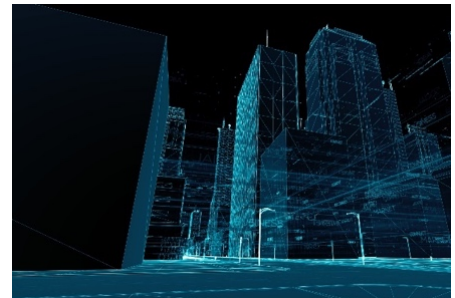
Healthy ageing



Audience of the future



Quantum technology



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