

welcome

Save today. Save tomorrow.

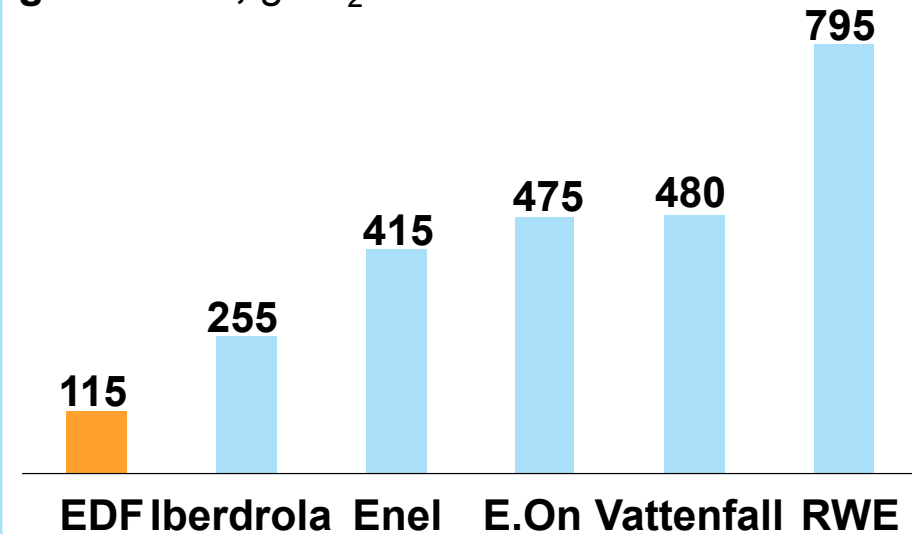


EDF is the world's largest producer of low-carbon power

EDF Group globally

- 74GW nuclear capacity in 78 reactors
- One of the world's largest renewables portfolios, with 25GW capacity
- 37mn customers globally
- Lowest carbon intensity of generation amongst the largest European electricity generators

Estimated CO₂ intensity of electricity generation, gCO₂/KWh in 2009



EDF Energy in the UK

- Largest electricity generator, generating 14% of the UK's electricity
- Operates 8 of the UK's 10 nuclear plants and plans to construct 4 new nuclear reactors, together with partner Centrica
- Largest electricity supplier to business customers
- Electricity supplier to ~5mn households



Agenda

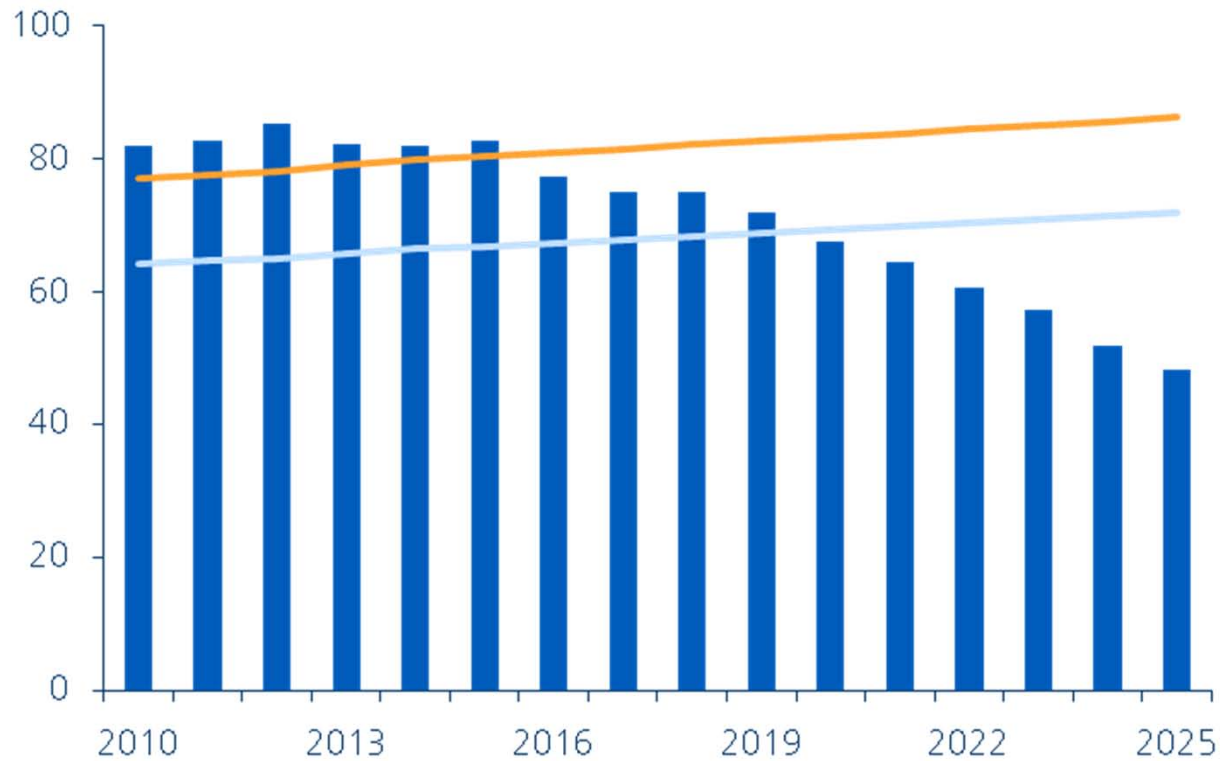
- **The UK's Energy Challenge**
- Nuclear will play a major role in the UK Energy Mix
- New nuclear in the UK: staying on course



40% of UK generation capacity is due to retire in next 15 years

GB electricity capacity

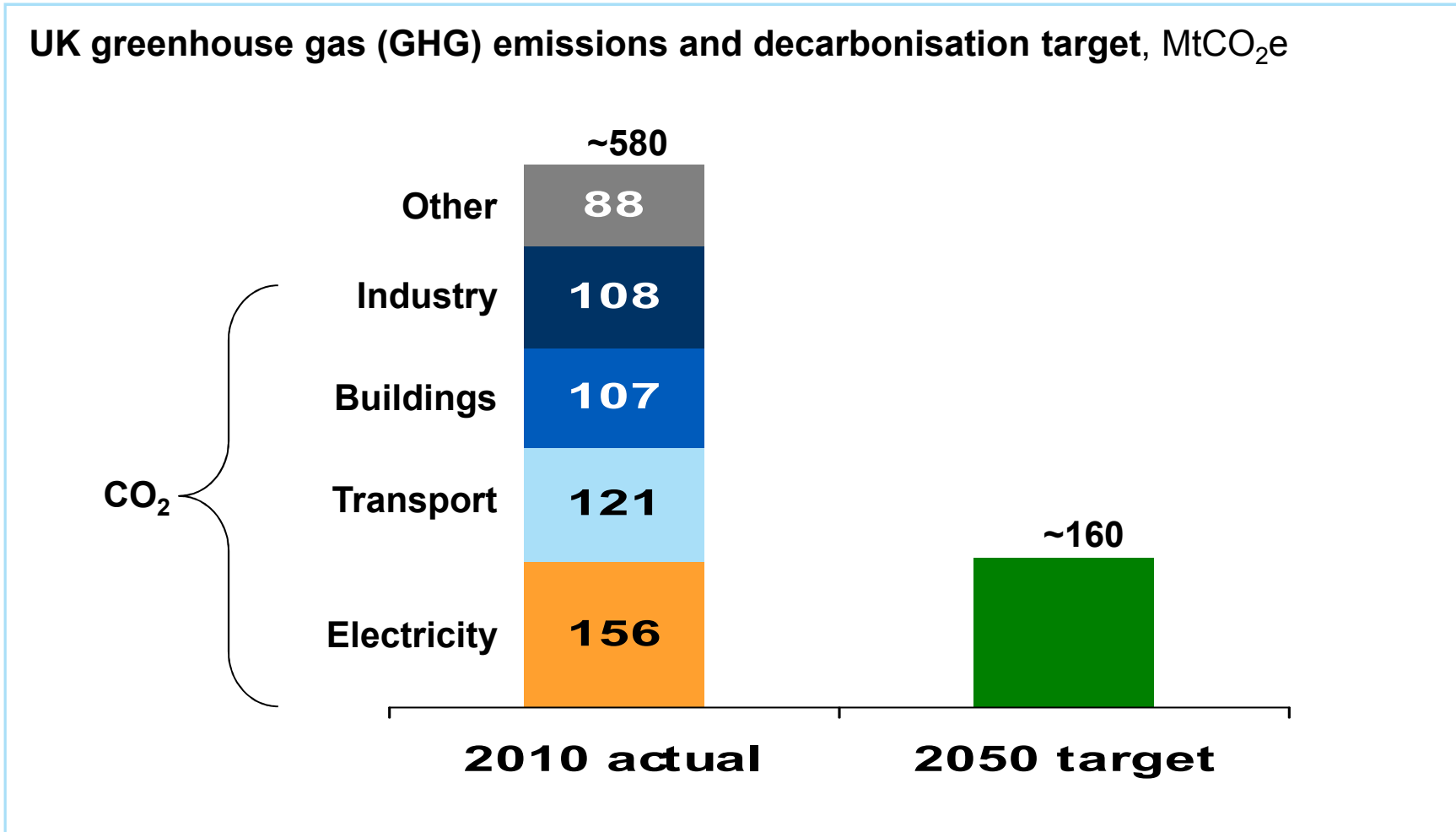
(existing and under construction, with announced nuclear life extensions) and peak demand, GW



■ GB capacity — Peak demand — Peak demand + 20% plant margin

Source: EDF Energy analysis 2010

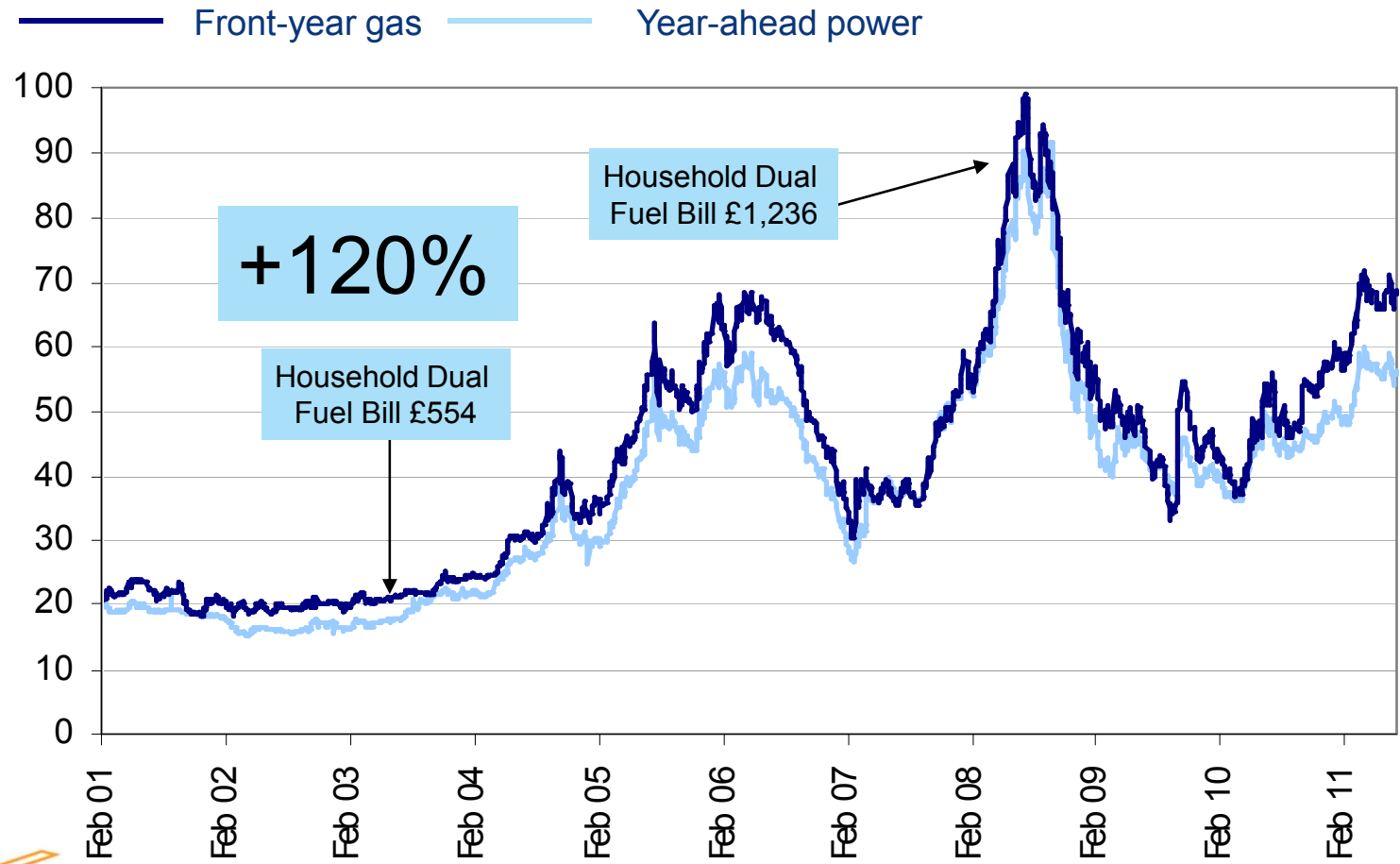
The UK has very ambitious, legally binding greenhouse gas emission reduction targets



Source: DECC; CCC 4th Carbon Budget; EDF Energy analysis

Worldwide events continue to drive volatility in UK energy prices

UK power and gas prices
p/therm, £/MWh



Source: EDF Energy analysis 2010

Note: Power forward prices are the average of the front two seasons. Gas forward prices are for the rolling front-year product (Oct-Sept)



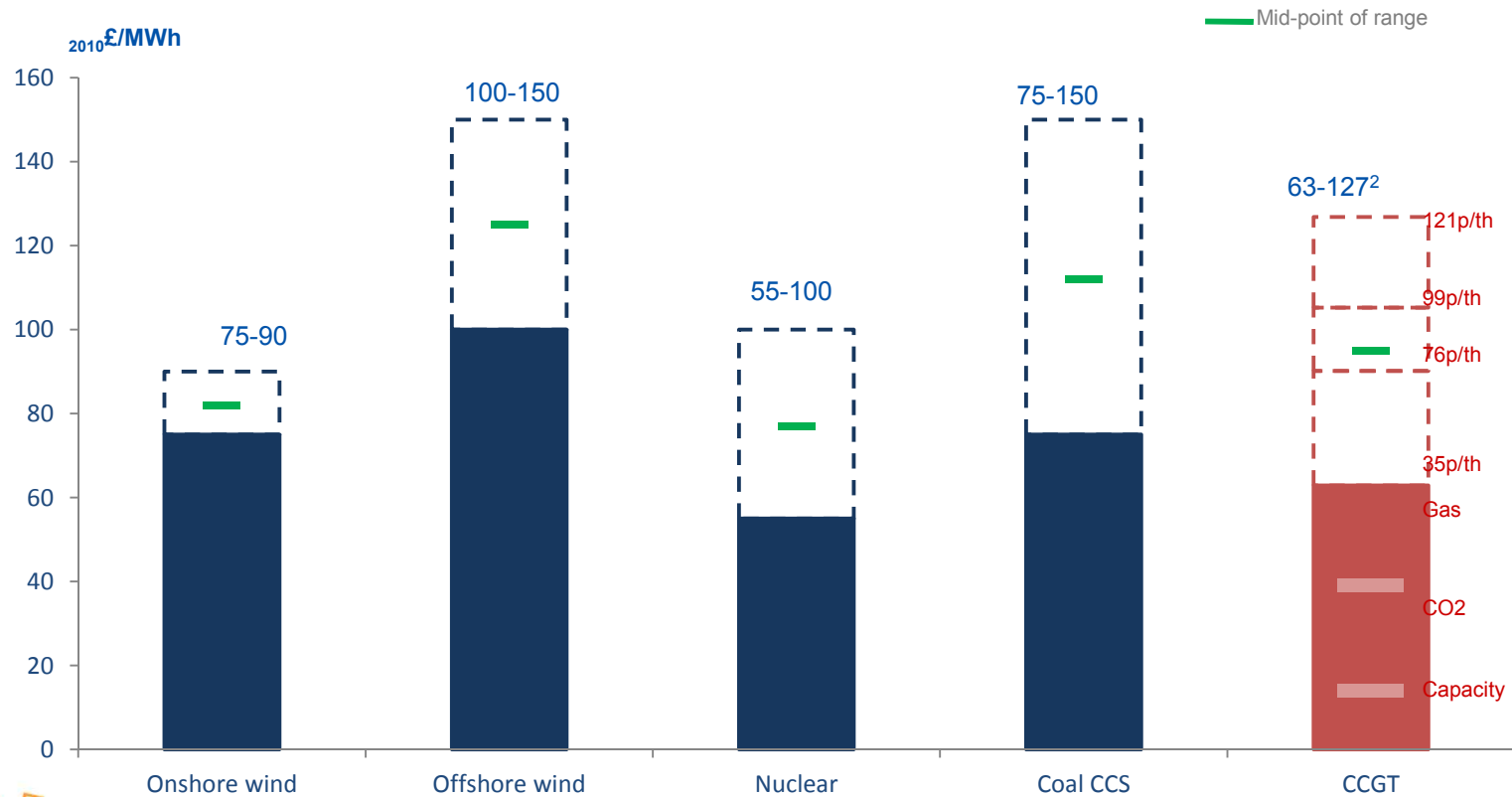
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- The UK's Energy Challenge
- **Nuclear will play a major role in the UK Energy Mix**
- New nuclear in the UK: staying on course



Nuclear is the lowest cost large scale low carbon generation

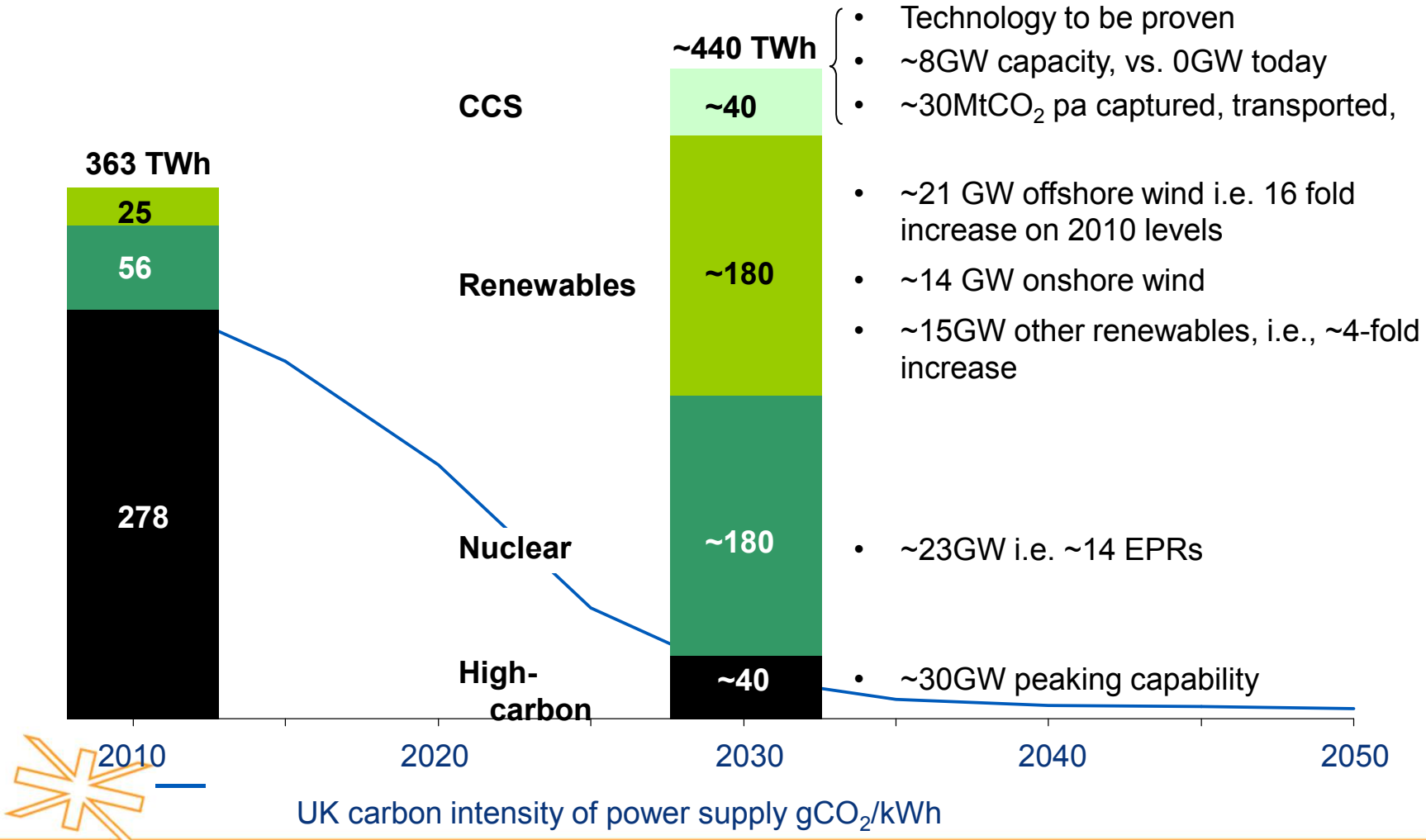
Levelised costs range of low-carbon technologies in operation in 2030¹
10% pre-tax real discount rate



Nuclear is needed at scale to help UK to meet its needs

Illustrative potential UK low-carbon electricity generation mix, TWh

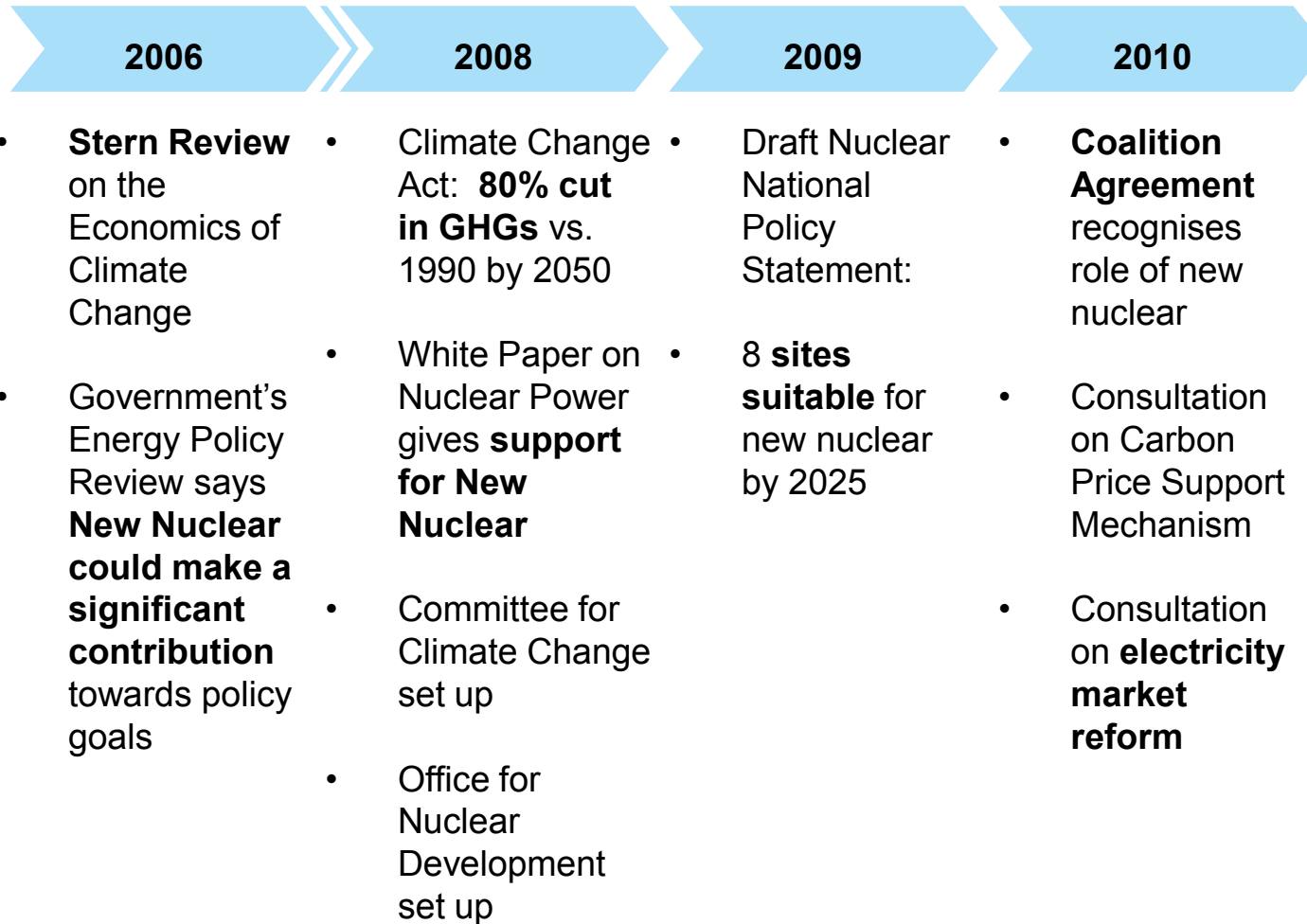
Requirements:



- Technology to be proven
- ~8GW capacity, vs. 0GW today
- ~30MtCO₂ pa captured, transported,
- ~21 GW offshore wind i.e. 16 fold increase on 2010 levels
- ~14 GW onshore wind
- ~15GW other renewables, i.e., ~4-fold increase
- ~23GW i.e. ~14 EPRs
- ~30GW peaking capability



Five years of democratic and reasoned debate and consultation has concluded on the role of Nuclear in our Energy Mix



Dr Weightman's interim report on Implications of Fukushima

“UK industry has displayed a leadership for safety and a strong safety culture”

“the quest for improvement should never stop”

- Improving open, transparent and trusted communications and relationships with key stakeholders.
- Enhancing on site resilience to the effects of major events.
- Providing off site emergency back up equipment that can also be readily connected to plant.
- Considering the potential impact of abnormal natural events on local and national infrastructure.
- Reviewing our emergency planning arrangements in response to extreme situations.



Cross Party Political support for Nuclear remains strong

"I do think that nuclear power should be part of the mix in future as it is part of the mix right now"

- Prime Minister David Cameron, 16/03/11

"[We] should avoid a rush to judgment given that we have a good safety record in this country. It is important not to lose sight of that"

- Labour Leader Ed Miliband, 14/03/11

"Today we become the first country in the world to introduce a carbon price floor for the power sector"

- Chancellor George Osborne, 23/03/11

"Let's not forget that nuclear does look to be the lowest-cost low-carbon technology "

- David Kennedy, Chief Executive of the Committee on Climate Change, 09/05/11

"Dr Weightman's interim report ... provides us with the basis to continue to remove the barriers to nuclear new build in the UK. We want to see new nuclear as part of a low carbon energy mix going forward, provided there is no public subsidy. [The] report reassures me that it can."

- Chris Huhne, Secretary of State for Energy and Climate Change, 18/05/11



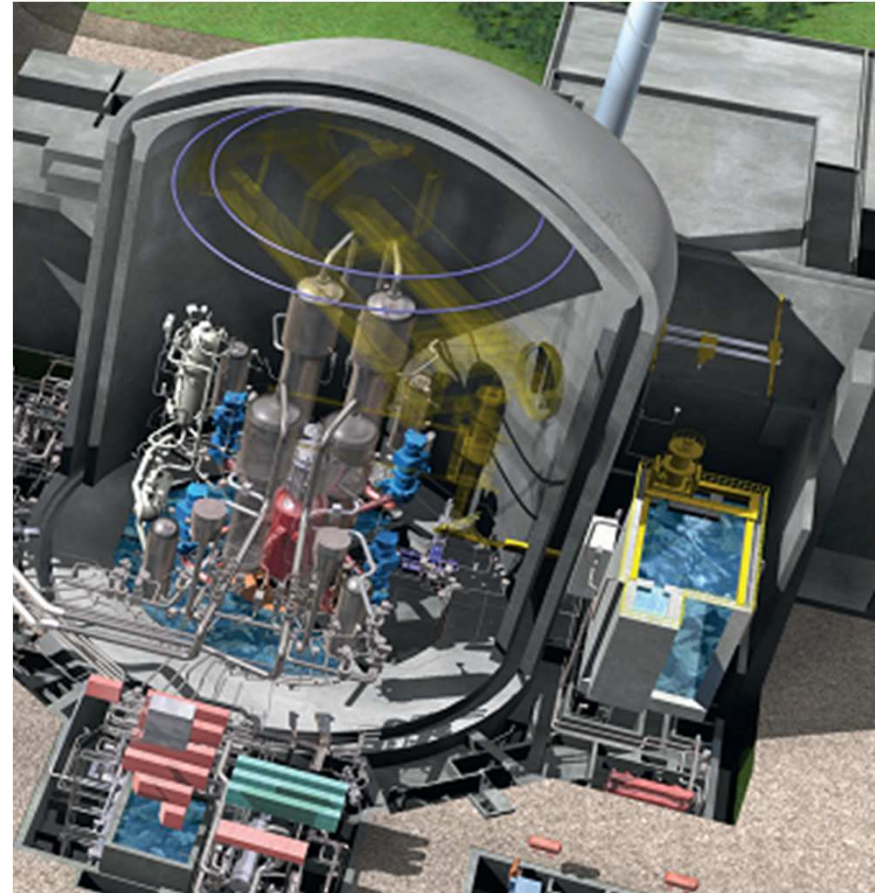
Agenda

- The UK's Energy Challenge
- Nuclear can play a major role in the UK Energy Mix
- **New nuclear in the UK: staying on course**



We intend to build four new nuclear plants in the UK

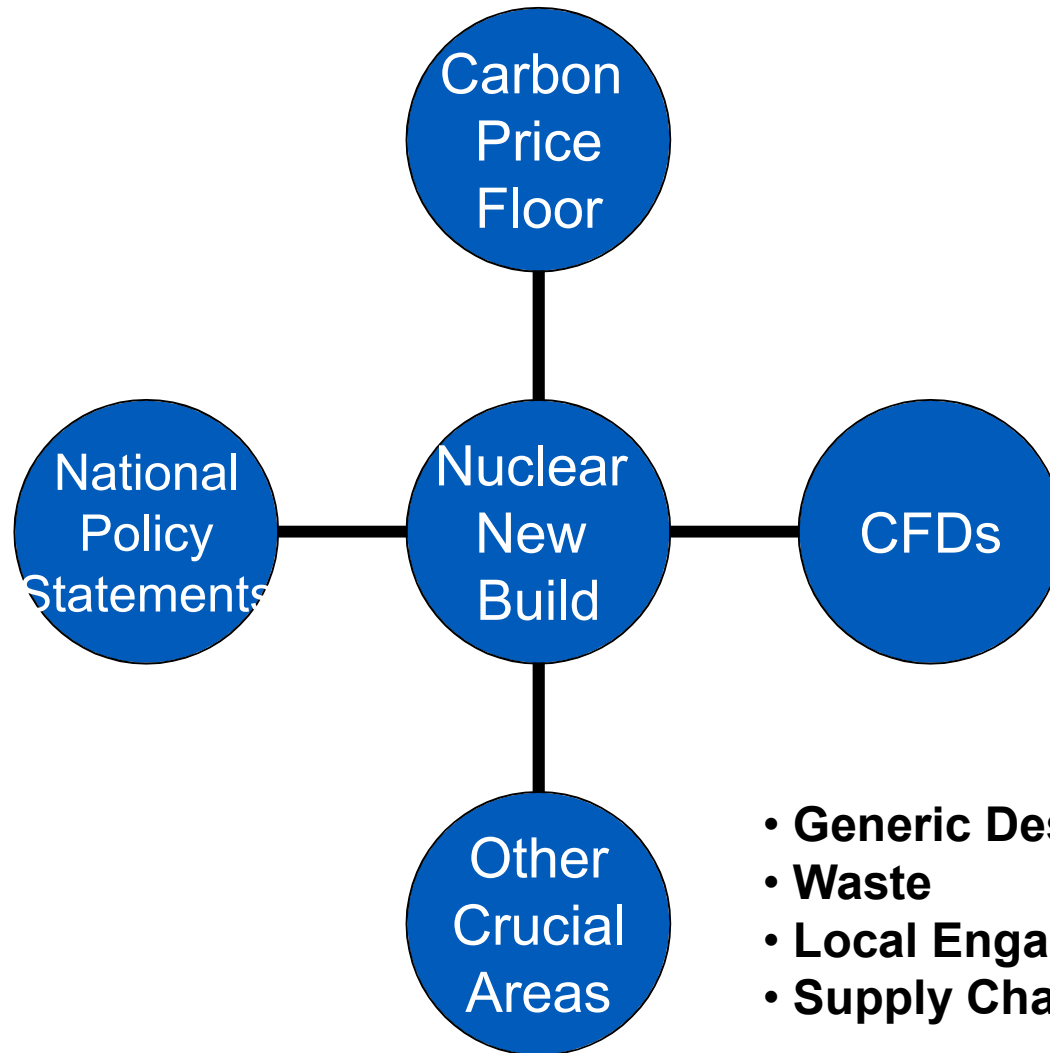
- **EPR** technology
- **Hinkley Point** and **Sizewell** (twin at each)
- Builds on EDF Group fleet experience at **Flamanville & Taishan**
- In partnership with **Centrica**
- **61% of public support** nuclear's role in the energy mix
- To date, almost **6,000 local residents** engaged



Weightman report reassured the Government that new nuclear can be part of the future energy mix



A robust policy framework is being delivered



- **Generic Design Assessments**
- **Waste**
- **Local Engagement**
- **Supply Chain**



Supply Chain Opportunities

- Massive **£20bn +** infrastructure project
- Estimated peak of **5,600 workers** per site
- Investment in local communities in **training and job creation**
- NIA / EDF Energy Supply Chain events have attracted over 650 businesses
- Some organisations (such as **Rolls-Royce, Doosan Babcock, Babcock International**) stepping up investment to play a role – others needed to follow suit
- Workforce **training and apprenticeships** essential
- Role for **Franco-British** relationships:
 - Complementary skills and cultural/local knowledge will aid project delivery
 - A number of key players are forming alliances (among others, Balfour Beatty/Vinci; Bouygues/Laing O'Rourke)
 - EDF, the French Embassy Trade Commission UBIFRANCE and the UK Embassy working to facilitate cross-channel alliances



Supply chain opportunities – how to get involved?

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thank you