

State of the Nation

Tom Greatrex, Nuclear Industry Association

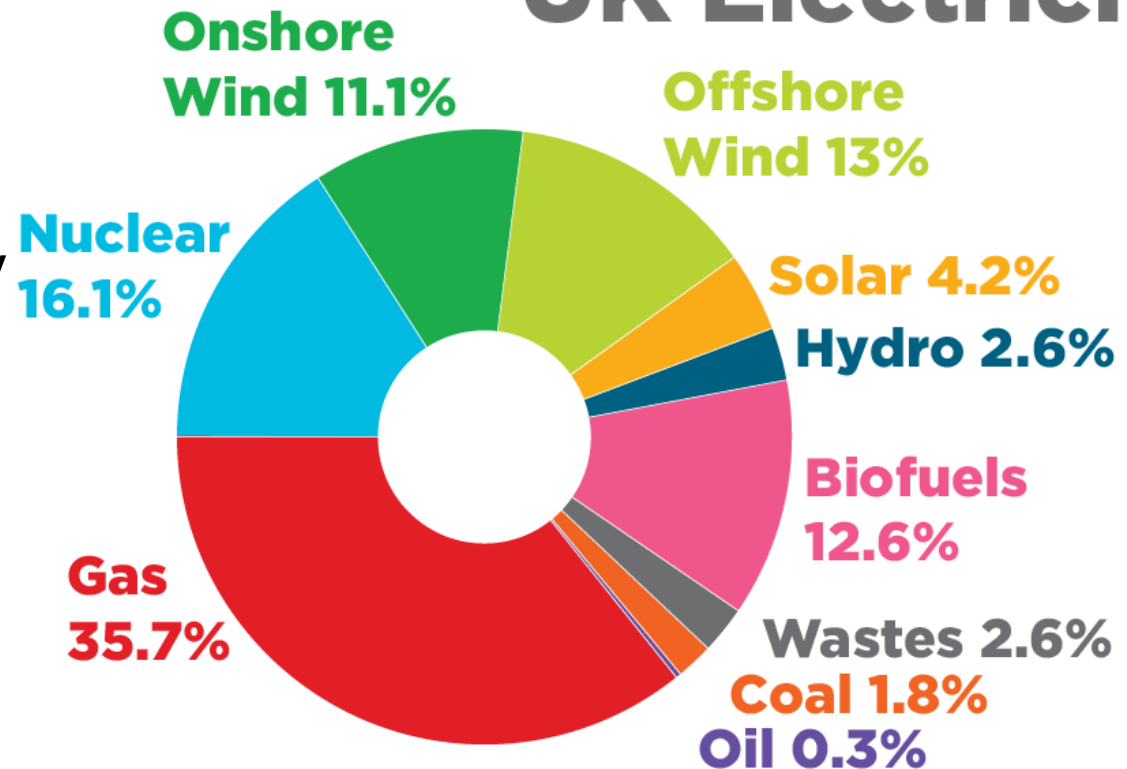


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UK Energy At Present

- UK energy approximately 85% fossil fuels
- Electricity is 17% of total energy demand, and is about half decarbonised
- Seven times as much clean energy is needed in total for net zero
- 38% of electricity should be 'firm' i.e. not weather-dependent
- **Net Zero Needs Nuclear**

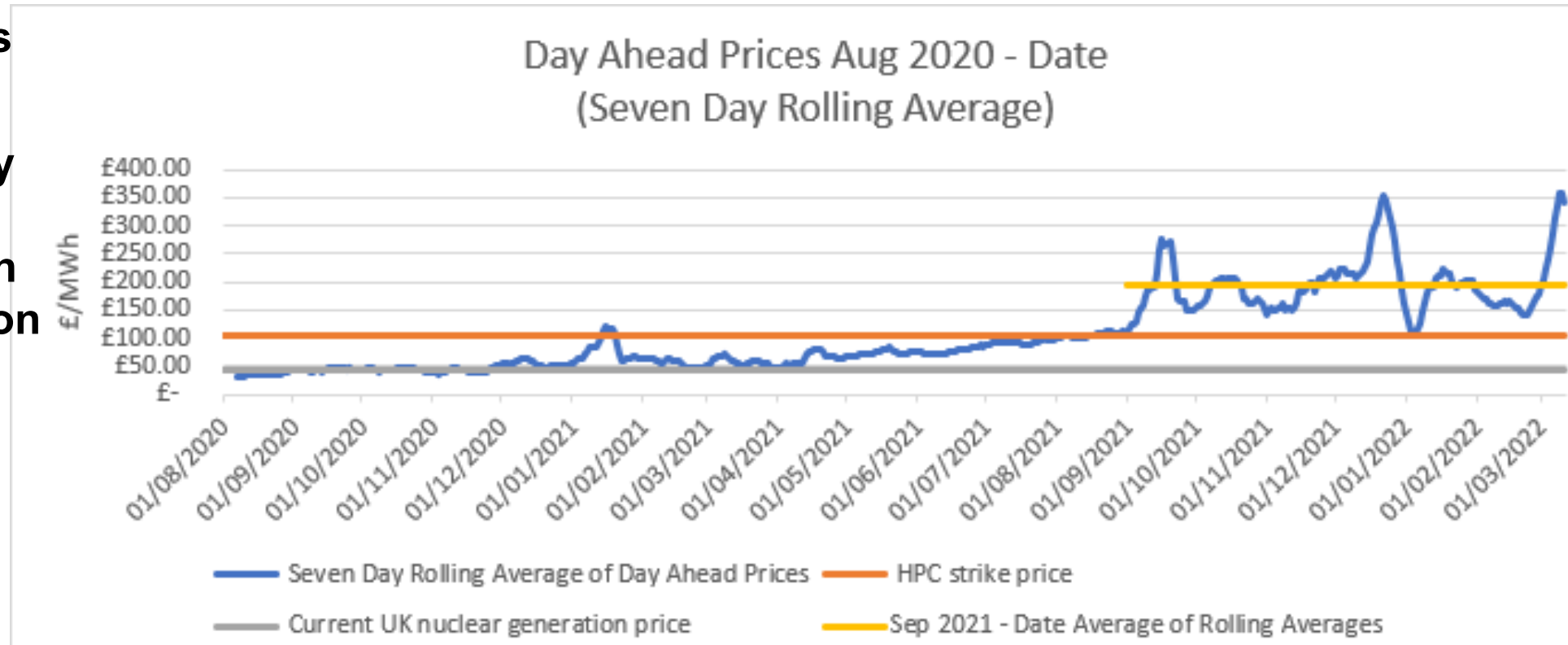
UK Electricity Mix



Source: 2021 Digest of UK Energy Statistics, BEIS

Recent energy market volatility

- High global gas demand globally, plus other factors, e.g. Ukraine, resulting in electricity price increasing
 - Day Ahead prices well above Hinkley Point C strike price of £92.50/MWh
- **More low carbon generation will result in lower sensitivity to gas prices**
- Circa £2.5 billion spent on balancing the grid in 2021, £90 per household
- **Firm power lowers balancing costs**
- **Nuclear is the only viable electricity source that is both firm and low carbon**



Retirement of current fleet

Hunterston B (1 GW)
RETIRED January 2022

Torness (1.2 GW)
March 2028

Heysham 1 (1 GW)
March 2024

Hartlepool (1.1 GW)
March 2024

Heysham 2 (1.2 GW)
March 2028

Sizewell B (1.2 GW)
2035+

Hinkley Point B (1 GW)
July 2022

Dungeness B (1.1 GW)
RETIRED June 2021



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Policy & Political Update

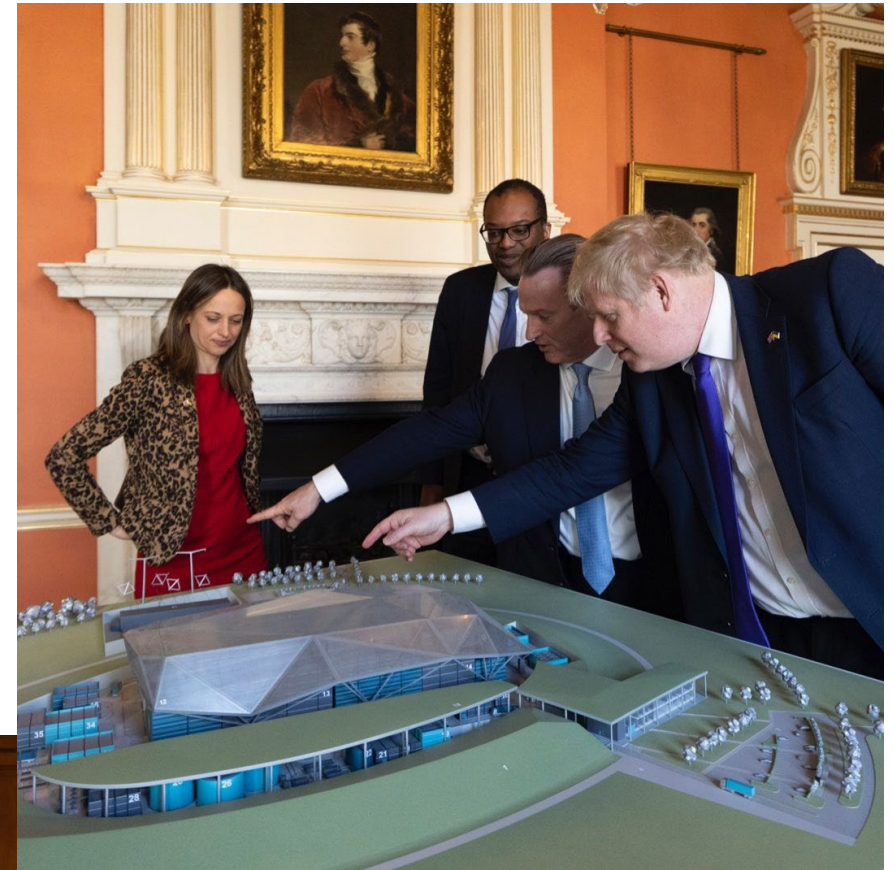
- Energy Security Strategy set a nuclear target of 24GW of by 2050
- Target of 8 reactors to be in development by 2030
- Work ongoing in Government to establish “Great British Nuclear”
- Government’s *Nuclear Roadmap* will now be more focussed on financing projects
- Regulated Asset Base legislation has Parliamentary approval
- More information imminent on the *Future Nuclear Enabling Fund*
- £75 million nuclear fuels fund announced, more detail expected soon
- £170 million committed for development of a British High Temperature Gas-Cooled Reactor (HTGR)
- NIA launched briefing paper on nuclear-derived synthetic fuels



Outlook for 2022

Coming up:

- Political outreach events in Cardiff & Edinburgh
- Nuclear APPG visit to Hinkley Point B before it comes offline
- DCO decision on Sizewell C due at the end of May
- Consultation on UK Taxonomy due in summer
- DECOM2022 conference in Telford on 20 July
- Nuclear Week in Parliament happening again in 2022
- Planning underway for Party Political Conferences in September/October





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