



The changing dynamics of the UK renewable energy market

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EXECUTIVE SUMMARY



- >£80bn* investment opportunity in renewables
- Decarbonise electricity + 'electrify' everything
- "Collocation" optimises potential for risk-adjusted returns





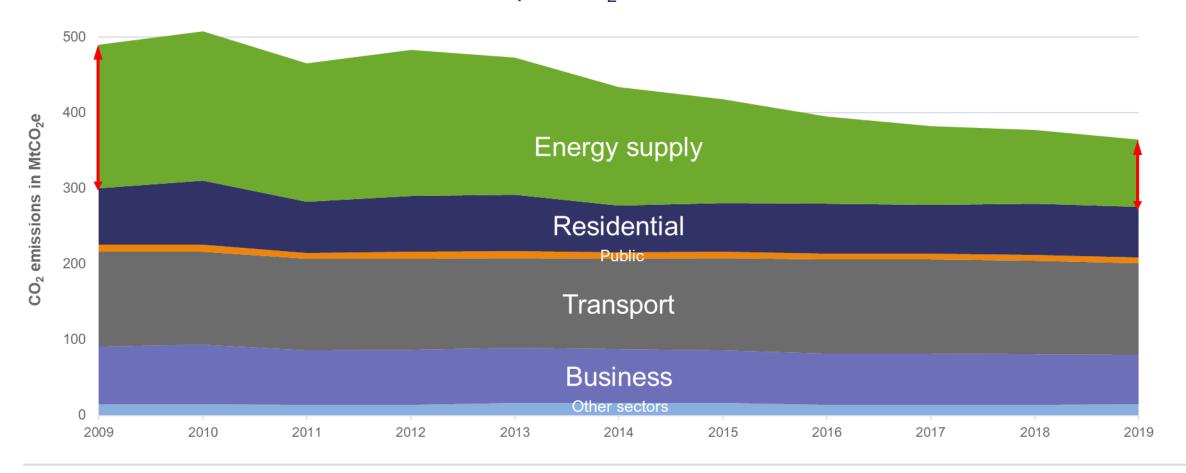




KEEP UP THE GOOD WORK, RENEWABLES



Renewables have driven c.80% of the drop in CO₂ emissions in the last decade



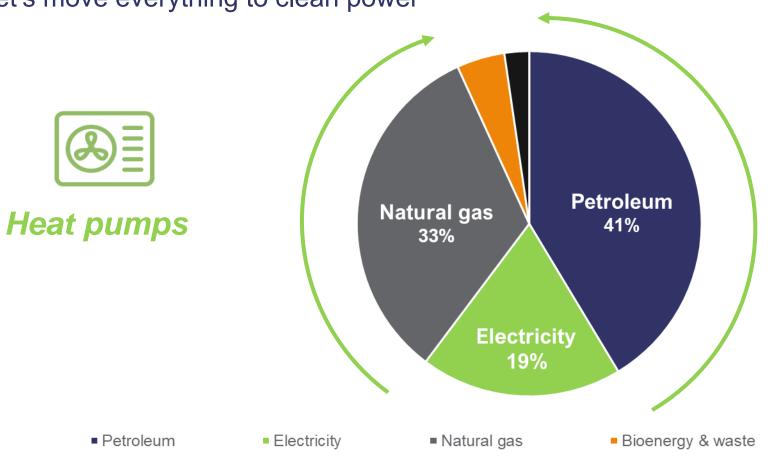
Source: BEIS, DUKES, 2021

Past performance is not a reliable indicator of future performance.

KEEP UP THE GOOD WORK, RENEWABLES



...so let's move everything to clean power





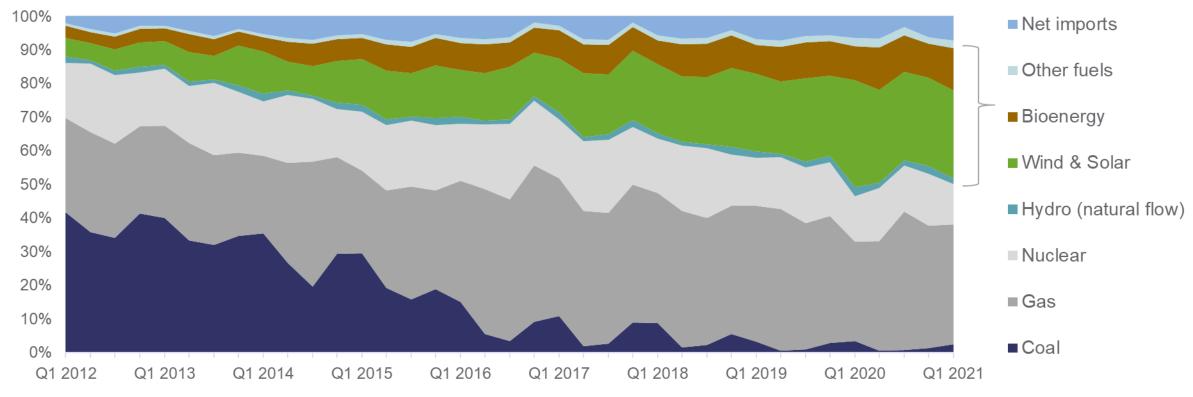
■ Coal & other

RENEWABLES HAVE A LONG WAY TO GO



Renewables' market share forecast to double to 80% in 2050 - in an electricity mix that also doubles¹





^{1.} BEIS, 2021

THE £80BN+ INVESTMENT OPPORTUNITY¹



Electricity mix today vs. 2050 - illustrative

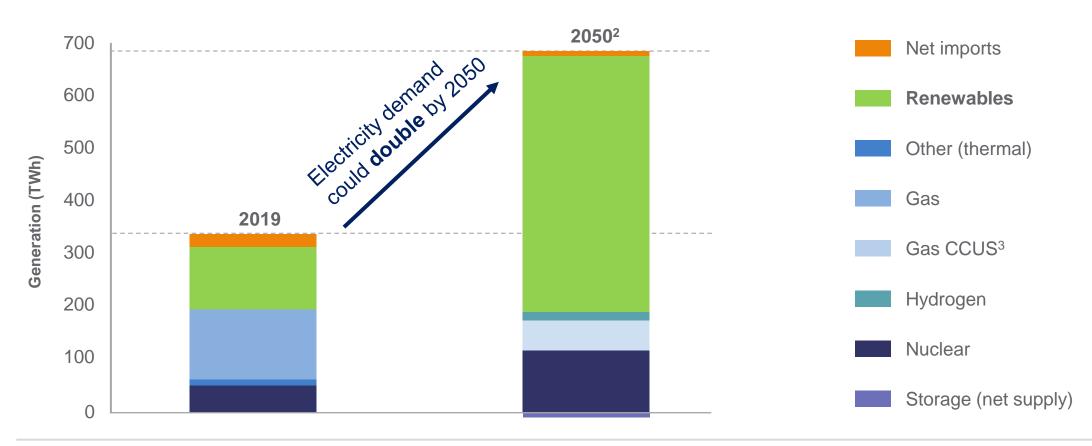


Chart source: UK Government Energy White Paper; Energy Trends, table 5.1 and 6.1; BEIS analysis

^{1.} Gresham House analysis, November 2021

^{2.} Illustrative data, not a forecast

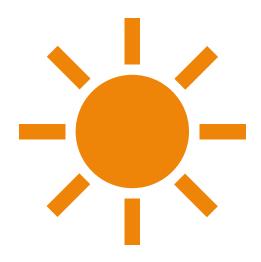
^{3.} Carbon capture, utilisation and storage

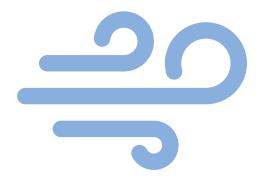
LET'S TALK ABOUT THE WEATHER...



But there's a catch with renewables: it's called intermittency

Weather patterns are largely predictable, so intermittency must be managed







THE £80BN+ INVESTMENT OPPORTUNITY¹



Electricity mix today vs. 2050 - illustrative

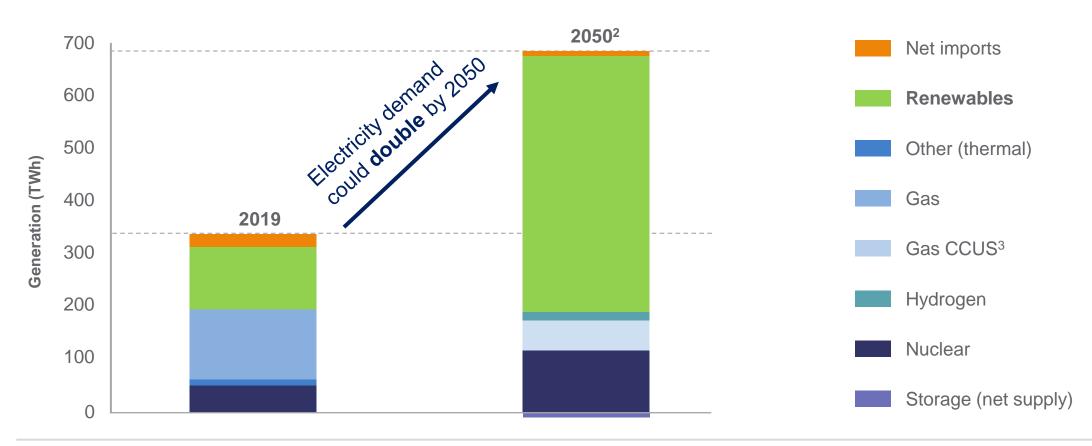
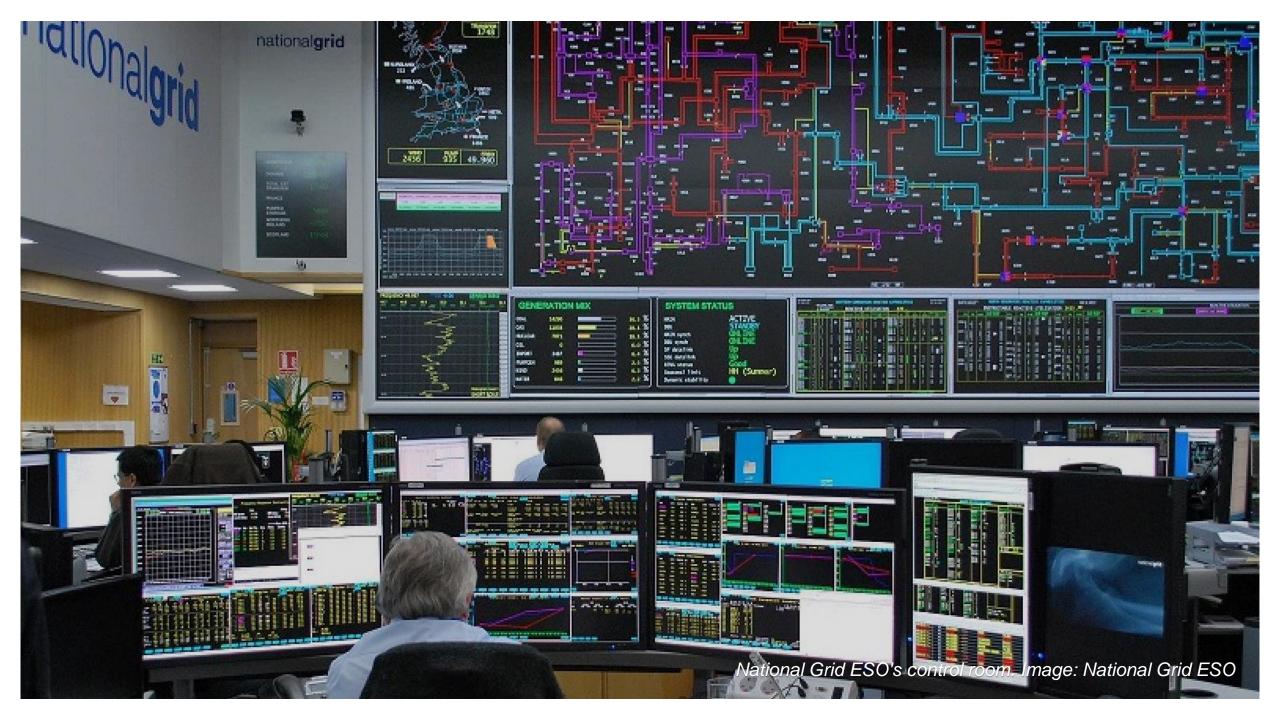


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^{3.} Carbon capture, utilisation and storage



INTERMITTENCY CREATES PRICE VOLATILITY



...but there's opportunity in the chaos

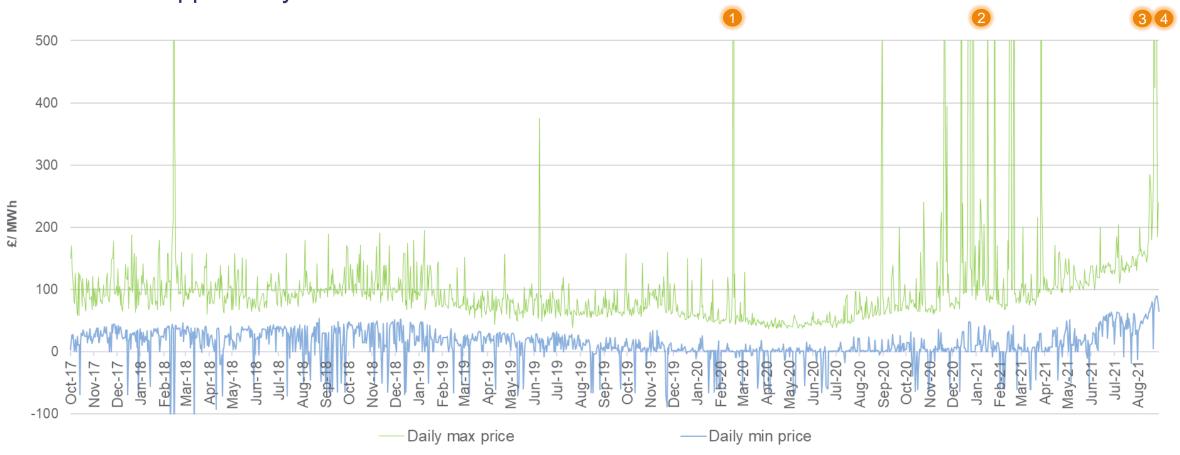


Chart source: Elexon, September 2021

AN OPPORTUNITY FOR BATTERIES



Batteries *collocated* with renewable assets can achieve two things:

- 1. A cost-effective energy transition
- 2. Improved risk-adjusted returns potential
 - ✓ Approx. 2x the revenues¹
 - ✓ Counter-cyclical
 - ✓ Shared capex
 - ✓ Shared costs





^{1.} Gresham House analysis, November 2021



IT GETS BETTER!



Creating a 'secure income' revenue model from:



1. Renewable energy generation

Power Purchase Agreements



2. Tradable capacity

Asset Optimisation Contracts



3. Standby capacity

Capacity Mechanism Contracts

SUMMARY: SECURE INCOME FROM ENERGY & STORAGE



- Mature technology
- Asset backing
- Contracted income
- Diversified exposure
- Improved yield
- Improved potential for risk-adjusted returns





