

# The UK Power Mix in 2025

From coal to renewables, the UK has experienced fifteen years of transformation towards a cleaner, greener, and more secure energy future.



## THE BIG PICTURE



**COAL GENERATION**  
**100%↓**  
decrease in 2025 with zero TWh generated, compared to 74.49 TWh in 2015



**GRID EMISSIONS**  
**65%↓**  
reduction since 2015  
120 gCO<sub>2</sub>/kWh in 2025



**RENEWABLE GENERATION**  
**131%↑**  
increase from 56.28 TWh (2015) to 130.4 TWh (2025)



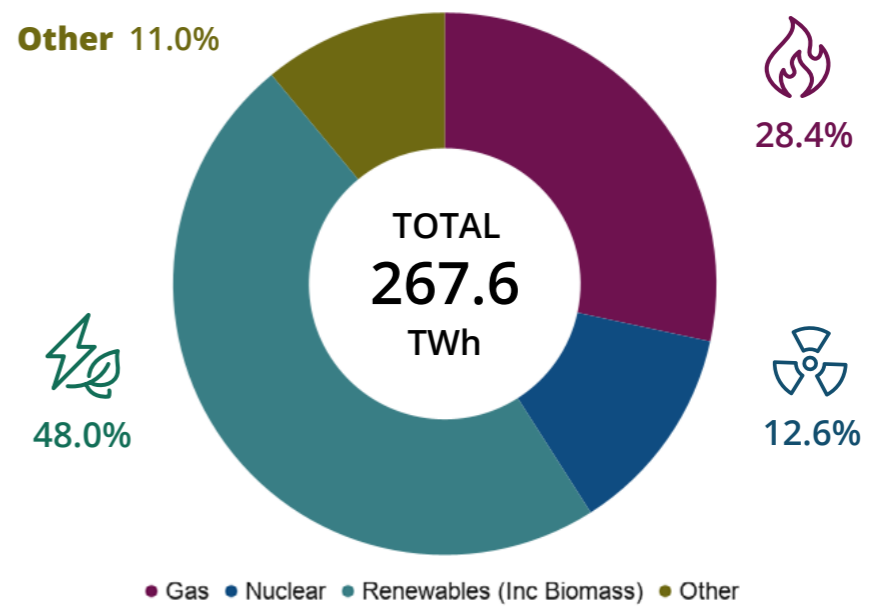
**WIND GENERATION**  
**164%↑**  
increase from 32.46 TWh (2015) to 85.8 TWh (2025)

## UK POWER DEMAND (TWh) 2009 - 2025



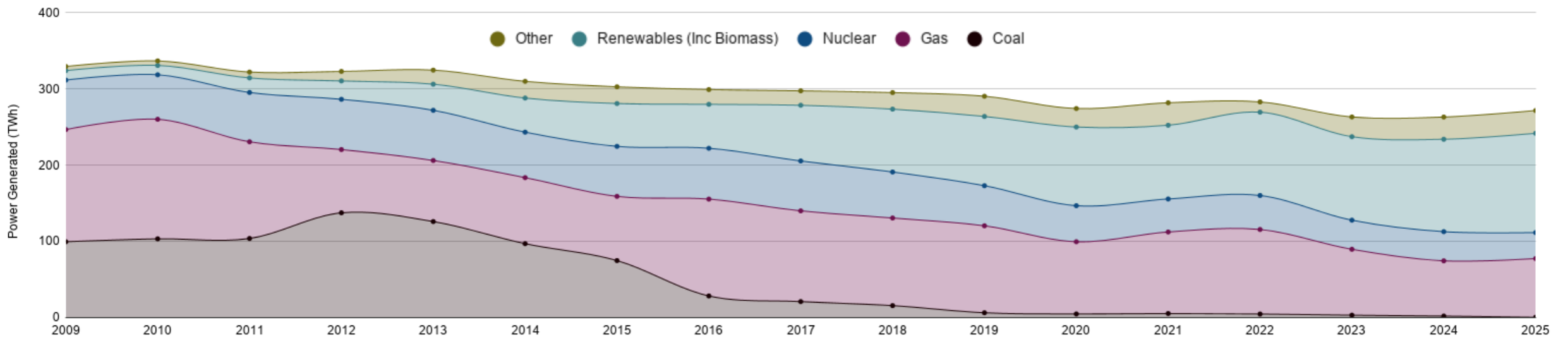
Power demand in 2025 was slightly higher than 2024, driven by increased electrification, especially EV uptake.

## THE UK'S POWER MIX IN 2025



Renewables now generate nearly half of UK electricity - more than gas and nuclear combined.

## HOW HAS THE UK'S POWER MIX CHANGED?



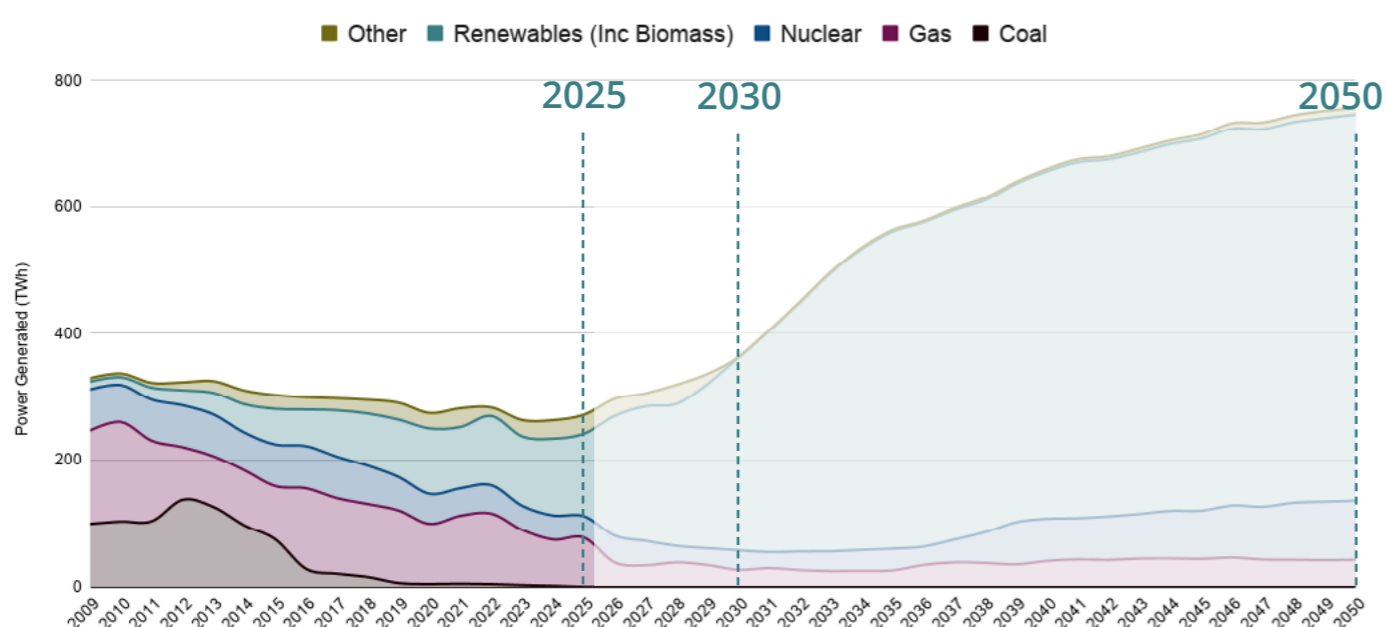
Coal has disappeared from the UK power system, falling from 99 TWh in 2009 to zero TWh in 2025.

Renewables have grown more than tenfold since 2009 and are now the largest source of electricity.

Gas generation has fallen by 47% since 2009, but remains vital for flexibility and reliability of the grid.

## FUTURE OUTLOOK

### NESO FUTURE ENERGY SCENARIOS



## A RENEWABLE-LED FUTURE



**Renewables** are projected to exceed 250 TWh by 2030 and reach around 650 TWh by 2050.



**Nuclear** is expected to play a greater role from the 2030's, providing low-carbon, reliable power.



**Gas** is forecast to continue declining as storage, flexibility and clean technologies expand.



Electricity demand is expected to rise significantly towards 2050 as transport, heating and industry become increasingly electrified.

Get ahead of the curve and all but eliminate scope 2 emissions from electricity now, by committing to purchasing 100% renewable power.

Whatever your business size, Businesswise Solutions offers 100% renewable electricity. To speak to one of our experts email us at [enquiries@businesswisesolutions.co.uk](mailto:enquiries@businesswisesolutions.co.uk)