

Can businesses be serious power players by 2035?



2035: the target for a zero-carbon power system in the UK

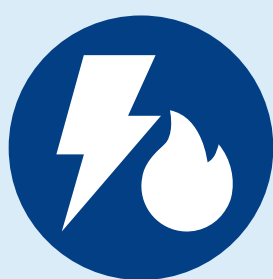


Via Imperial Consultants, we commissioned Dr Gabriel D Oreggioni from Imperial College London to provide his own independent opinion on the future potential of business-generated power by 2035¹

And how they can support a safe, stable and secure energy system by:



Reducing costs



Increasing resiliency



Lowering emissions

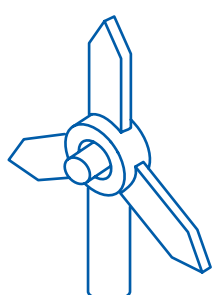
In *The Future of Energy: The critical role of business in a zero carbon world*, three on-site power-producing scenarios were modelled:

- ✓ **Biogas-produced electricity**
- ✓ **Business-produced biomethane and power generation**
- ✓ **Integrated Renewables**

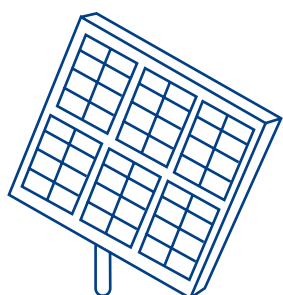
To assess the feasibility of them replacing imported natural gas by 2035



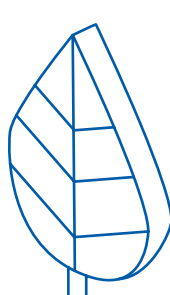
The modelling revealed that, by 2035:



On-site wind capacity could reach between **6 and 29 GW**



Installed roof-top solar PV could account for **6.5 GW**



Biogas power generation could be **up to 16 TWh**



Hydrogen and biomethane injection could be close to **33 and 7.5 TWh**, respectively



AND

- ✓ Overall levelised cost of electricity could range between **£49 and £261/MWh** (significantly lower than current wholesale prices)
- ✓ Emissions savings of up to **6.7 MtCO₂/year** could be achieved

However, this will only be possible with the right policy in place:



Refined planning rules



Updates to the Climate Change Levy



Tax breaks for businesses

Your journey can begin now.

Try our Net Zero Calculator to find out more.



¹ Study was conducted May-June 2022