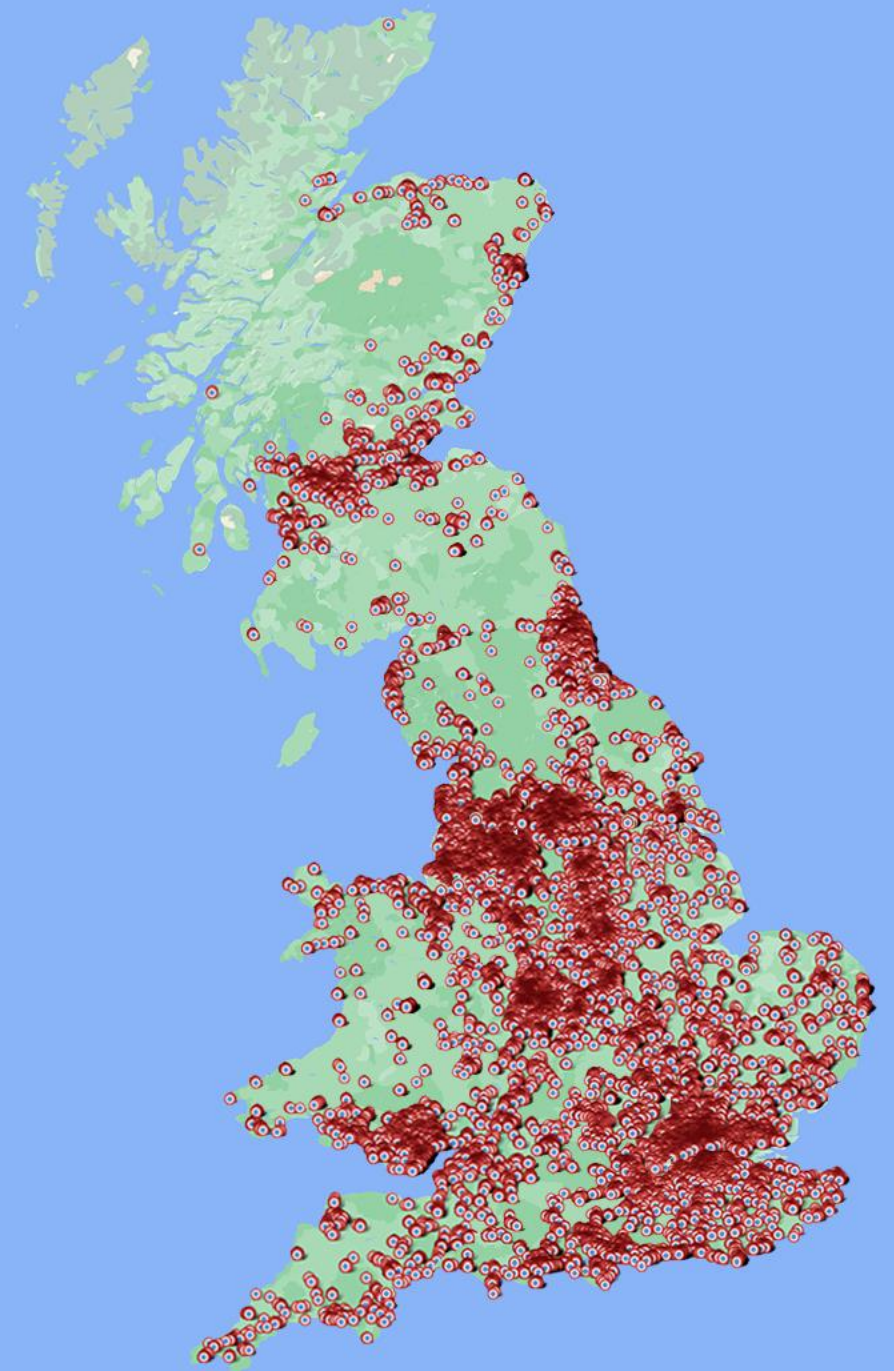




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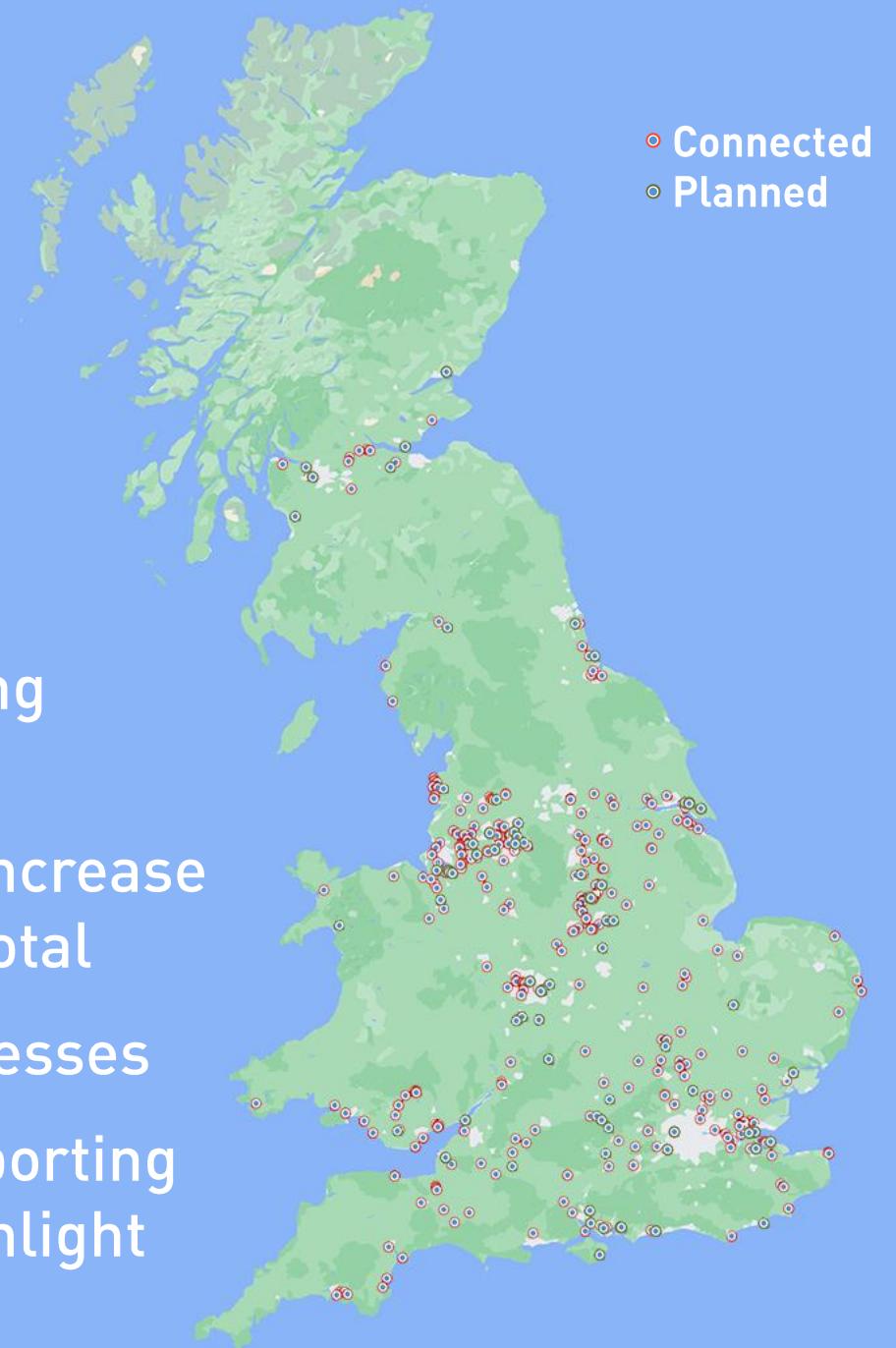
## Industrial Connections to the GB Gas Grid

- 67,000 across transmission and distribution networks
- Over 99% of these are on the gas distribution system
- All connections rely on gas transmission and distribution for their supply and energy storage
- Some of these businesses can electrify; some need molecular energy, like hydrogen
- Industry shares the same gas pipes as homes, commercial buildings and power generation



## Power Generation on the GB Gas Grid

- There are 308 power stations connected to the gas system, flexibly accessing gas network storage
- 33.4 GW capacity is connected, with 28.2 GW on transmission and 5.3 GW on distribution, generating 7%-70% of electricity
- A further 75 sites in the connections process will increase capacity on distribution to 6.7 GW and 34.9 GW in total
- They share the same network as homes and businesses
- They balance electricity supply and demand – supporting demand peaks and enabling renewables – and highlight the integration between electricity and gas DSOs



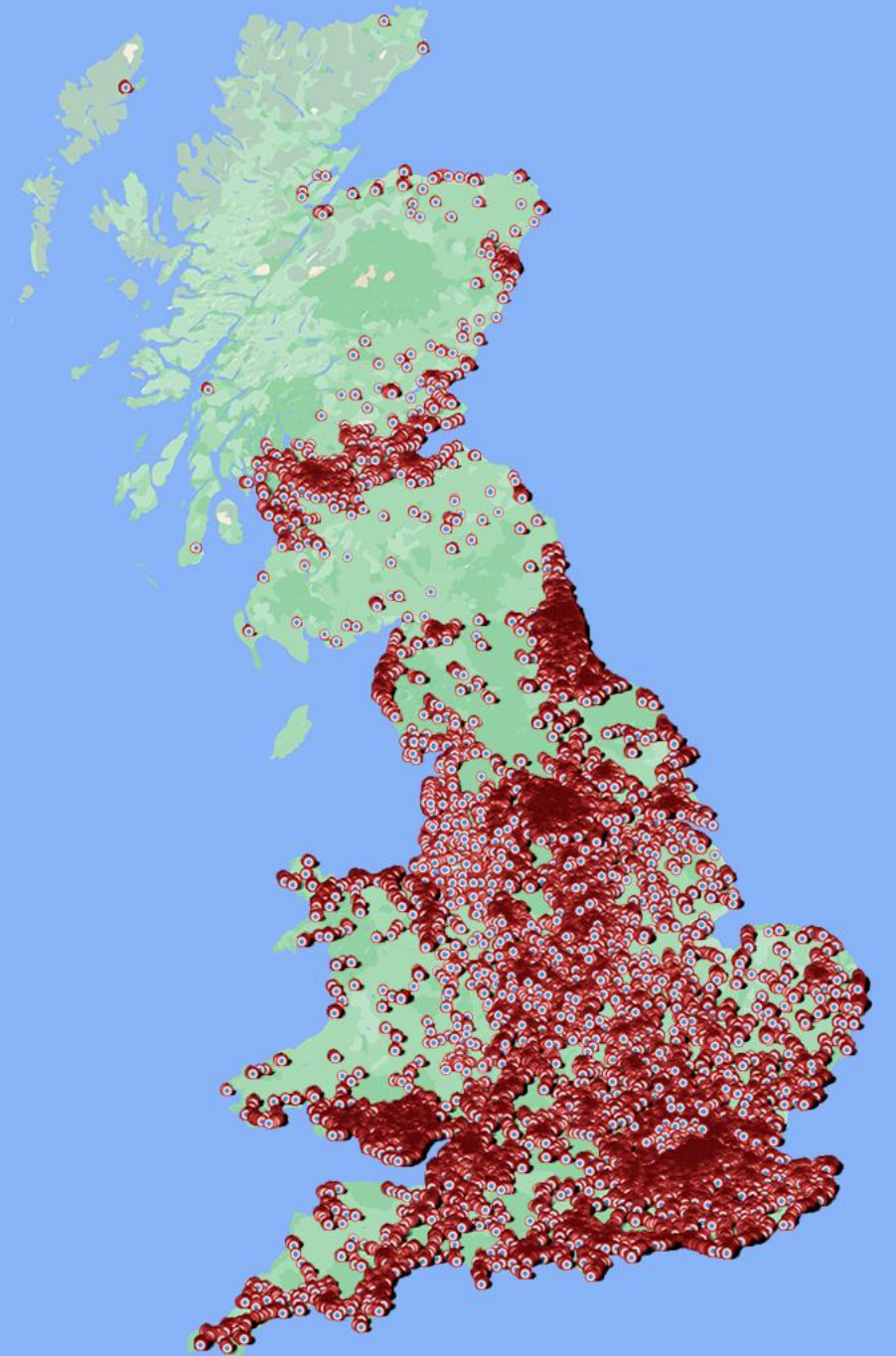
## Storage in the GB Gas Grid

- There are ~7,600km of national transmission pipes and ~11,600km of local transmission pipes in GB
- The networks charge up with gas overnight and release it in the day to balance energy supply and demand to keep the lights on and homes warm
- The capacity of this giant energy store is over 1,700 GWh (80% transmission, 20% distribution)
- This capacity is equivalent to:
  - 127m Tesla Powerwalls
  - 8,750 Harmony batteries (largest battery in Europe)
  - 188 Dinorwig-scale pumped hydro schemes



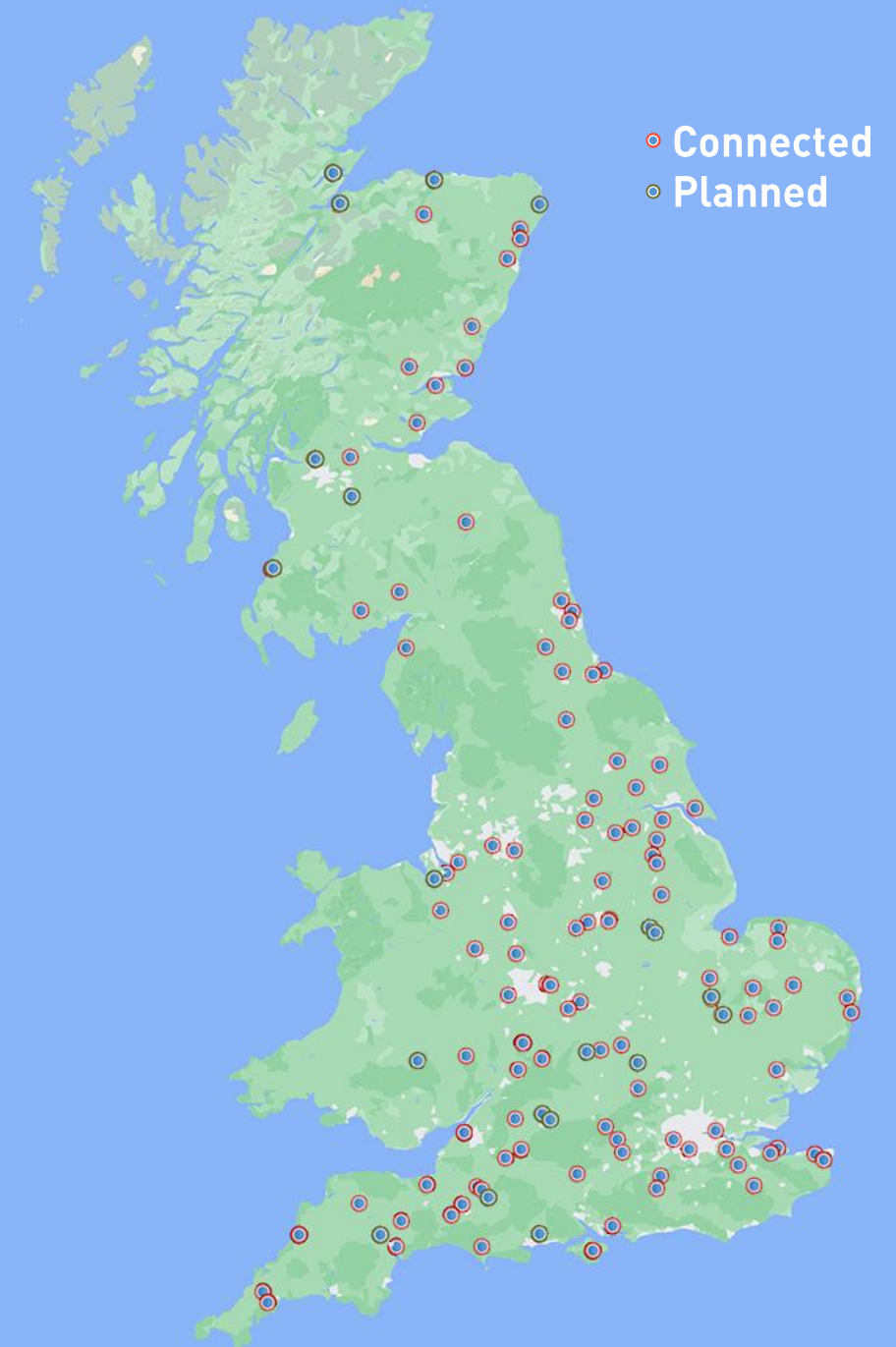
## Commercial Connections to the GB Gas Grid

- 460,000 commercial properties connected to the gas distribution system
- With 67,000 industrial premises, there are over 527,000 businesses connected to the gas grid
- Commercial properties include offices, schools, hospitals, hotels, pubs, and restaurants
- Many have a significant gas demand and require a decarbonised gas supply for heat and power



## Biomethane connections to the GB gas grid

- 124 biomethane sites connected to the gas grid, with 29 further sites in the connections process
- The renewable gas capacity from connected sites is 10.1 TWh – enough to heat over 840,000 homes
- Including connecting sites, the total capacity will be 14.5 TWh – enough to heat 1.2m homes, or 6m homes using hybrid heating
- Further sites are queueing up to connect
- The gas network stores and transports green gas to homes, vehicles, power generation and industry



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