Data Centre Jobs in Energy and Power provisioning

Data centres are electro intensive and the UK's commercial sector consumes 3.6TWh of power a year (about 1% of UK electricity). Operators must carefully balance sustainability with resilience and long-term affordability. This creates a lot of challenges for those responsible for buying power – they must source renewable supplies but cannot rely on intermittent power sources. In the long term, operators will also have to find alternatives to diesel to fuel their emergency standby generators.

As large electricity consumers with stable, predictable demand and significant embedded generating capacity, data centres can help fun additional renewable capacity through power purchase agreements. And if new energy technologies like fuel cells come to market, some facilities could support a more distributed and dynamic grid by reducing their own demand at certain times, or even providing power.

Sample roles

- <u>Director of Power, Energy Strategy Lead:</u> Responsible for the company's energy strategy and purchasing policy, often across multiple jurisdictions.
- <u>Sustainable energy procurement lead:</u> Responsible for renewables sourcing, adoption and reporting
- <u>Data Centre Energy Manager:</u> Responsible for energy stewardship usually at a facility level but sometimes for a group of data centres.
- <u>Energy Consultant:</u> Usually an external individual or company providing advice to data centre operators on energy procurement, stewardship and reporting.
- <u>Energy Analysts:</u> Study the energy market and interpret trends, especially in terms of commodity price fluctuations and variations in non commodity charges by country.
- <u>Energy Broker:</u> Purchases energy on behalf of a large customer, often by contracting for power in advance, or sometimes aggregates demand for smaller customers to get them a better deal.