

# Onshore wind development

Onshore wind is back in the mix of renewable energy options for developers, investors, and large estate occupiers.

Wind has a higher capacity factor than solar. It generates more power per hour.

This makes wind a **valuable asset** for a behind-the-meter energy strategy because it offers greater energy resilience to sites requiring 24/7 energy security. It also makes it a **financial asset** to a front-of-the-meter strategy.

With **our specialists** in renewable energy, utilities and engineering design, we'll help you determine if onshore wind is right for your site, and what you need to consider to secure planning consent.

## How we help



### Understanding grid capacity

- » We conduct grid capacity mapping to identify where connectivity is available. This influences the strategy to unlock sites for onshore wind – and other renewables.
- » If you hold a landbank, this capacity mapping exercise highlights which sites to advance, based on grid availability.
- » We develop power procurement strategies that enable schemes to be phased, and we deploy innovative fault-limiting technology to overcome DNO concerns of over-supply to the grid.



### Constructing the financial business case

- » We deliver a techno-economic analysis for an investment in wind power, relative to other renewable technologies.
- » Our assessments demonstrate the return on investment against your specific objectives. We identify levels of power generation and quantify your opportunity to generate income through grid export or sale to tenants.
- » We also deliver a cost/benefit analysis for collocating onshore wind with an energy storage strategy.



### Determining site viability and planning consent

- » We conduct and manage through key partners all assessments that determine if a site is viable for onshore wind. This ultimately forms part of a successful planning application:
  - » Noise assessments
  - » Shadow flicker assessments
  - » Ground conditions
  - » Site access for construction and maintenance
  - » Swept path analysis for site access
  - » Ecology
  - » Landscape visualisation
  - » Civil infrastructure
  - » Services and structural design

## Who we help

### 1 Estates teams

Typically, a campus-type estate, for example for the NHS, or universities, and also local authorities responsible for significant public assets.

We assess the opportunity for grid-scale renewable energy investment to deliver on-site energy security and meet decarbonisation and net zero targets.

### 2 Investors and renewable energy developers

Typically focused on front-of-the-meter, large-scale, grid-connected schemes.

We assess the scale of opportunity for revenue generation.

### 3 Real estate developers

Typically focused on multi-tenant commercial sites, or large mixed-use residential-led sites.

We assess the opportunity for a behind-the-meter scheme to deliver lower cost, and low-carbon energy to tenants, often via a microgrid strategy.

## Contact



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