

WIND ENERGY

What is it?

Electricity produced by wind using turbines or wind energy conversion systems.

Why use?

Harnessing wind energy is good for the environment, could help end our reliance on imported fuels and restore our energy independence.

Worth noting:

Many people and organisations have the option to pay for electricity that is produced by a supplier using cleaner, renewable sources of generation like wind. However it is also possible to install your own system to supply residential, commercial, and industrial self-generated power. An independent wind system could work for you if:

- There is enough wind on your site
- Tall towers are allowed
- You have enough space
- You can interconnect with your utility service provider (assuming you have a grid-connection application)
- It works for you economically

Check list:

Make sure your site is suitable.

Check if there are any grants available.



Wind blowing on wind turbine

Electricity used, sent to grid or stored in battery

Meter

DC to AC inverter

How does it work?

1. The turbine blades capture the wind's kinetic energy and rotate, turning the wind into energy.
2. The energy is sent to an inverter which converts DC energy to AC electricity, which is used by most home appliances.
3. The converted electricity flows via a meter to power the home or building, or is sent to the grid or battery storage.



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