



Coldham Wind farm facts

Coldham Wind Farm is located at Coldham Hall Farm, a Co-operative Farm in between March and Wisbech in Cambridgeshire. Coldham Wind Farm Ltd is a joint venture between The Co-operative Group and ScottishPower Renewables and the wind farm is managed by Natural Power.

Wind turbine facts

- There are 8 Vestas V-80 wind turbines at Coldham.
- A further 7 turbines will be built in 2010/11 in the same area.
- There are 9 turbines in the adjacent Stags Holt wind farm and other wind farms can be seen on a clear day.
- The Coldham turbines are 60 m high to the hub and have three 40 m long blades.
- The amount of electrical power produced depends on the wind speed at the rotor (or blade) height.
- The turbines start to generate electricity at a wind speed of around 4 ms^{-1} and generate the maximum power of 2000 kW or 2 MW from a wind speed of around 14 ms^{-1} .
- Computer linked wind-measuring equipment and a turning (yaw) mechanism ensures that the wind turbine faces into the wind to gain the maximum wind power.
- The turbine blades can swivel (pitch) in the rotor to increase or decrease their wind resistance.
- At a steady strong wind speed of 25 ms^{-1} , the turbine will turn off by pitching the blades to 86° to provide minimum resistance to the wind to prevent blade damage.
- A control system (called SCADA) operates and monitors the wind turbines. It can be accessed from anywhere in the world with Internet or mobile access with password protection.
- The 8 wind turbines at Coldham provide enough power to supply around over 9,000 homes each year.
- Each turbine costs around £2 million, or £1 million per MW maximum power.