DYSON COTE FARM WIND TURBINE PROJECT COMMUNITY CONSULTATION

DC21
Wind Turbine Specialists

Authorised Distributor
Endurance wind power
we power the future

WELCOME

DC21 Ltd will be submitting a planning application for a small wind energy development on land at Dyson Cote Farm.

This Consultation is intended to give local people and other interested parties some information about the proposed development and let them know how they can get involved.

WHO WE ARE

DC21 is a small but growing renewable energy business based in Huddersfield. Small wind energy developments are our main activity and this activity has already created a considerable amount of work both for us and for our local contractors. As we expand, further job opportunities within the company for residents of Yorkshire and Lancashire are envisaged and with ownership of the company firmly rooted in the North of England this region is where DC21's profits will be most strongly invested.

We are not a wind farm developer, we work exclusively with Endurance wind Turbines. These turbines are considered by wind industry and landscape planning professionals to be of the small or small-medium scale. They are designed for on-site generation, that is the generation of low carbon electricity for direct use in buildings with excess power flowing to the grid. Our projects offer a more sensitive solution in rural landscapes than large wind farms; they also offer greater direct benefit to local people and Businesses .

WHAT WE ARE PROPOSING

We propose to install a single 50kW wind turbine with a maximum height of 49m to blade tip. The proposed turbine is significantly smaller than the turbines found in a wind farm which can reach up to 130m

Dyson Cote Farm is ideal for a small wind energy development. The open countryside will allow a smooth flow of wind to the turbine and wind speeds on site reach at least 7.0 metres per second which is ideal. This clear, windy site means that when fully operational the proposed turbine should generate around 217,700kWh of electricity each year. That's the equivalent of the electricity used in 53 homes. It also represents a potential annual carbon dioxide saving of 130 tonnes or 3,900 tonnes over the 30 year lifetime of the project.

The power generated by the proposed turbine will meet the majority of the electricity requirements of Dyson Cote Farm with surplus power being exported to the National Grid. As electricity always travels to the nearest point of demand it is highly likely that this surplus will be used locally thus providing direct local benefit, it will almost certainly not leave the local distribution network.

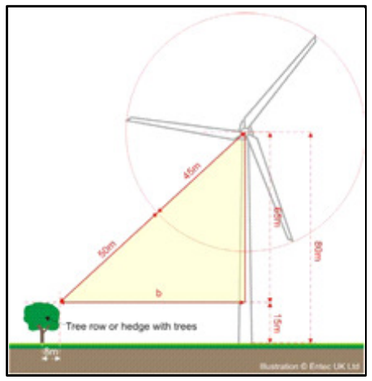
If permission is granted the wind turbine would have a lifespan of around 30 years after which it could be removed and the land returned to its former condition. Turbines of this size have relatively small foundations and do not require the creation of a permanent service road; as such their physical impact on the landscape is minimal.

BENEFITS OF THE TURBINE:

- Help, support and diversify a rural farming business
- Provide an income for the landowner, which will be used in growing the farm business and maintain the farm buildings.
- Create employment opportunities through the growth of the farm business.
- Create employment opportunities during the construction, maintenance and decommissioning statges of the turbine.
- Generate around 217,700kWh of electricity each year
- Annual carbon dioxide saving of 130 tonnes or 3,900 tonnes over the 30 year lifetime of the project.
- Aid the goverment in meeting C02 reduction targets by 2020
- Help Tackle climate change, through the production of renewable energy

KEY CONSIDERATIONS WHEN CHOOSING TURBINE LOCATION

- NOISE EMISSIONS - The turbine has been located to fall within separations distancess so no noise disturbance is caused to neighboring properites. Following the ETSU-R-97 Guidlines "The Assessment and Rating of Noise From Wind Farms"
- SHADOW FLICKER - Guidance suggests that flicker can occur at a distance of up to 10 rotor diameters and 130 degrees either side of North, the turbine has been located outside these parameters, therefore there will be no impact on neighboring properties.
- FALL OVER DISTANCES - The turbine has been located so that it is well within safe fall over distances from any overhead lines, footpaths, bridleways and highways.
- RADIO TRANSMITTERS - There are no radio transmitters within the vicinity of the proposed development. The JRC (Joint Radio Company) and Ofcom have been consulted, they have no objections to the proposal.
- ECOLOGY AND ORNITHOLOGY - In Technical Note TIN051, Natural England recommend that in order to minimise the risk to bat populations a stand-off distance of 50m should be maintained between features such as hedges or trees and the blade tip of a wind turbine. This is illustrated in the image below. The proposed development is in compliance with this recommendation and no adverse impact is anticipated in relation to local bats or bat roosts.



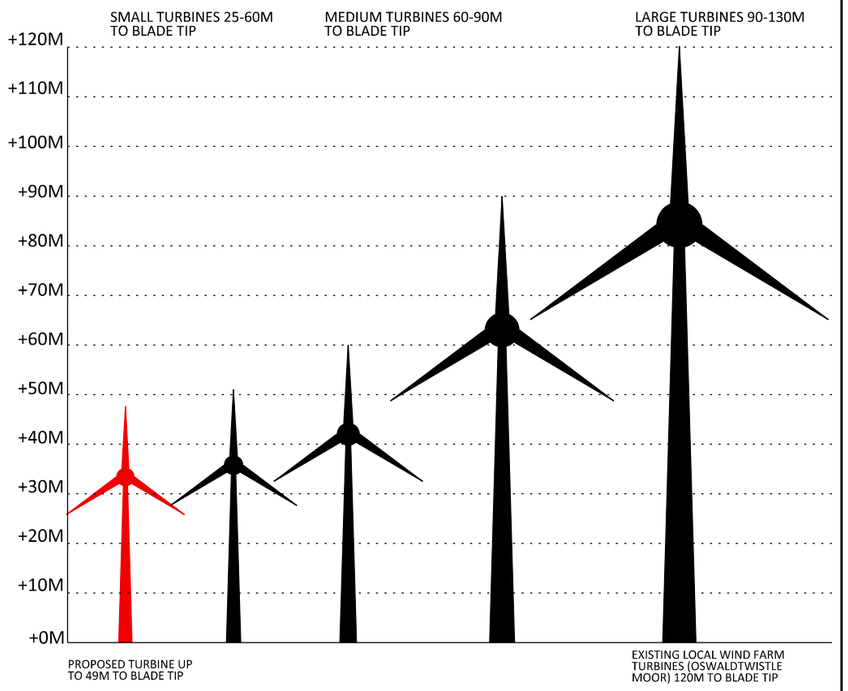


TYPICAL IMAGE OF PROPOSED TURBINE

PROPOSED TURBINE LOCATION



TURBINE SCALE COMPARISONS



CONSULTATION PERIOD

The consultation period for the this application is 21 days upon receipt, please contact DC21 on the details below within this time frame to comment. After the 21 day consultation period a planning application will be submitted to the local authority.

CONTACT US

We appreciate that this information source may not answer all of your questions and you may wish to comment on the project. In order to do this you can contact our wind energy team in one of the following ways:

EMAIL: consult@dc21group.com
PHONE: +44(0) 1484 607808
ADDRESS: DC21 Ltd, Dene House, North Road, Kirkburton, Huddersfield, HD8 0RW