DESIGN AND ACCESS STATEMENT

Proposed installation of 1 x 10kw small scale wind turbine

Drake Hill Farm
Hey Slack Lane
Cumberworth
HD8 8YD

Introduction

This statement is submitted in support of a full planning application for the installation of a small scale 10kw wind turbine on land at Drake Hill Farm, Hey Slack Lane, Cumberworth.

Background

Due to current increases in energy prices, their desire to become more self sufficient and carbon neutral has encouraged the applicants to seek alternative methods of energy generation.

After assessing various options the decision has been made to install a small scale wind turbine. The primary reasons for this over other renewable technologies are the abundant, good quality wind resource in and around the location and more than sufficient spare land. The site has uninterrupted open land in most directions including towards the west and south west, the direction of the prevailing wind, which is ideal for maximising energy generation and there are existing wind turbine installations within view of the site.

Site Analysis

The application site is at Drake Hill Farm, Hey Slack Lane, Cumberworth.

The site comprises a dwelling, garage/barn and a stable block surrounded by agricultural land.

The existing vehicular access is off Hey Slack Lane Lane.

Design Principles

The turbine is proposed to generate electricity for use within the residential property and should be designed and sited in such a manner that it respects the appearance of the area and should not create an unacceptable nuisance to neighbouring land and properties.

Location

The turbine is to be sited on the parcel of land to the north east of the residence. The location was chosen to take best advantage of the prevailing wind whilst at the same time minimising the visual impact.

Design

The Evoco 10kw turbine has a rotor radius of 4.8 metres (max) and is mounted on a free standing 15 Metre (max) tower. The turbine nacelle and blades are manufactured from high tech composite materials, coated and painted white with the tower being fully galvanised steel.

The turbine will provide power for the residential property and will be grid connected to provide power to the local network.

Amenity

Noise

The turbine is designed for low noise operation and minimal visual impact. Due to the separation distance and low noise generation the turbine will not be heard by surrounding residents.

Access

The existing vehicular access to the site is Hey Slack Lane.

The existing access has a gravel/tarmacadam surface and is approximately 4.5m wide. There are adequate turning and vehicular parking facilities within the site.

The site allows good access for emergency services.

Permanent access is not required to the site. The turbine is delivered in parts and then erected in situ. Once erected vehicular access is no longer required until the turbine is removed from site. Access for maintenance is annual and can be gained along the existing access.

There will be no disruption to access to the site during installation.

Conclusion

The proposed development is in line with central and regional government guidance, the turbine is appropriate and suitable for the location and the impact to visual amenity and noise generation will be minimal.

We hope that this Design and Access Statement offers sufficient detail to accompany an application for the erection of 1 no 10kw wind turbine at Drake Hill Farm, Cumberworth. However, should you require any further detail please do not hesitate to contact **James Scott Electrical Services Ltd.**