TOWN &COUNTRY PLANNING APPLICATION FOR USE OF LAND AND BUILDING AS LIVERY AND ASSOCIATED WIND TURBINE

AT

GLENWOOD LIVERY
POG LANE
CRANE MOOR NOOK
BARNSLEY

For

MR S WOODCOCK

DESIGN AND ACCESS STATEMENT

Prepared by

WHITE AGUS PARTNERSHIP

1 INTRODUCTION

The statement is made in support of a planning application submitted to Barnsley M.B.C. for the use of Land and building as livery and the installation of a 'DuoGen' wind turbine fixed to an existing livery stable block.

The site is not believed to lie in any statutory or other rural land designation although it lies a short distance from Crane Moor Working Men's Club and car park.

2 BACKGROUND

The applicant's livery business comprises a stable for nine horses with associated drying room, tack room and hay store based at Glenwood Livery, Pog Lane, Crane Moor along with approximately 12 acres of grazing land.

The business currently does not have a mains electricity supply. This situation is becoming increasingly unsatisfactory. This application therefore seeks consent to utilize a natural resource of the location in the form of wind to provide the electricity needed and help control the cost of the energy used whilst at the same time contributing positively to the thrust of Government policy in respect of renewable energy.

Wind is fundamental to the success of a wind turbine. By reference to BERR's wind speed database the average annual windspeed at 10 metres above ground level at the farm is 5.4m/s. Given that as a general rule the windspeed at 10m above ground level should be 4.9m/s or more to make wind a viable energy option, the site offers an acceptable resource.

In considering the project due regard has been made to ensure the siting of the turbine does not impact adversely on the enjoyment of the landscape by other residents in the locality as well as visitors.

The process for determining the prudence of proceeding with a wind turbine has included reference to:

- PPS1 – Delivering sustainable development;
- PPS22 – Renewable Energy;

Proposal
The preferred wind turbine is a Duo Gen D400 wind generator.

The D400 is a new direct-drive wind generator, designed for a variety of marine, rooftop or terrestrial applications. It is exceptionally quiet and vibration-free in operation, qualities that are of paramount importance for any wind generator operating in close proximity to people. The D400 is available in white, or low visibility black as the StealthGen. In this instance it will be white.

The D400 features a powerful 3-phase alternator, and computer-designed rotor blades optimised for low speed, user-friendly operation.

This innovative machine is extremely efficient in low wind speeds, yet is capable of sustained high power outputs of up to 500 watts in higher winds.



3 SITING

The proposed site of the turbine is in the applicant's site as shown marked with a red arrow on the aerial photograph below and the site plan accompanying the application form.



Importantly, whilst controlling future energy costs in an environmentally friendly manner is an important goal of the applicant it is equally important to ensure the turbine does not detrimentally affect the amenity value of the property and the rural landscape which the applicant is fortunate to be part of.

The proposed siting has therefore had regard to the factors outlined above as well as the basic requirements for a successful turbine.

The photograph below is included in this document to help to demonstrate the location of the turbine and how it may appear in the countryside.



The size, colouring and positioning of the turbine will ensure the structure has minimal impact in the landscape and should not detrimentally affect the enjoyment of private residential properties in the locality or views from public highways.

In summary the site offers a position which is:

-Far enough away from the nearest physical objects that may obstruct the flow of wind or cause turbulence which may result in damage to the turbine itself;

-Not going to adversely affect the visual amenity of either the residential

properties in the locality or the landscape in the area. The profile of the land and the presence of mature trees and hedges mean that there are very few positions in the locality from where the turbine will be seen from a residential property other than the applicant's own property. Those using the adjacent highway, Pog Lane and Crane Moor Road will for the most part be screened from the turbine by the roadside hedge and trees.

-Far enough away from residential properties to make the issue of noise of no relevance in this case. The level of noise emission from such a turbine is in any event very low.

4 ACCESS

The access to the site will remain as existing

Access to the site is only required for the erection of the turbine and for the annual maintenance inspection. Such access will be taken through the applicant's property. The delivery of the turbine will require a single flat bed lorry/trailer which will be able to gain access from through the property. Access to the site is not considered to be an issue.

5 ASSESMENT

The proposed development fully embraces the UK Government's objectives as set out in Planning Policy Statement 22 and has regard to the provisions of the current planning policies for the area.

It is considered the siting and design of the DouGen turbine will not have an adverse impact on the character and appearance of the landscape in this area. Further the scheme as a whole offers the chance for both the applicant and the Council to demonstrate a positive approach to the need for renewable energy.