Planning, Design and Access Statement

Adamgill Farm

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December 2025

Envams

Contents

1 INTRODUCTION

1.1 PLANNING, DESIGN AND ACCESS STATEMENT

This Planning Design and Access Statement (PDAS) presents information in support of an application for planning permission to construct and operate a small-scale CF-15 wind turbine on land at Adamgill Farm, located West of the Cumbrian coast. The proposed turbine would have a maximum hub height of 20 m and an electrical output of up to 15 kW., The proposed development would involve dismantling the existing 45 metre (m) telecom mast and removing all onsite cabins. The existing farm access track and compound will remain on Site.

The site of the Adamgill Farm project is not within or close to any “environmentally sensitive locations” as defined in the EIA Regulations. The proposed turbine is also significntly lower in height than the existing telecoms mast at the site, and is not close to any sensitive receptors, and should not be subject to EIA.

The existing turbine is also a CF-15 kW turbine that lies 130 m SE of the proposed turbine, this turbine has a hub height of 20 m. The proposed turbine alongside the existing one will be integral part in making Adamgill Farm more self-sufficient in renewable energy and delivering significant energy savings will assist with securing long-term sustainability of the business.

As a renewable energy scheme this proposal has the potential to significantly contribute to national objectives such as net zero by 2050 and local objectives such as net zero carbon county by 2037. This seeks to address climate change and reduce carbon dioxide emissions.

2 PROJECT DESCRIPTION

2.1 THE PROPOSAL

The site is located at grid reference:

- Easting - 298436
- Northing – 519905

The postcode is CA28 6SF and the location is shown in **Figure 1.**

The proposed turbine is located on open land, currently used for a telecom mast. The layout is shown in **Figure 2.**

The nearest uninvolved residential property is 190 m to the southwest of the proposed turbine.

The application site extends to 334 m² and lies at an altitude of 130 m above ordnance datum (AOD).

The location of the wind turbine has been selected to optimise the wind yield while minimising potential adverse environmental effects and because the existing telecom mast infrastructure means using existing foundations and access track.

2.2 THE APPLICANT

The Applicant is Mark Messenger. The Messenger family has farmed at Adamgill since the 1980s.

The land at Adamgill Farm is open pasture used for cattle grazing.

2.3 THE PROPOSED TURBINE

The “candidate turbine” for which consent is sought is a CF-15 turbine with a horizontal axis rotor diameter of 11.1m, a hub height of up to 20 m.

The CF-15 has a cut-in wind speed of 1.5 m/s and a cut-out wind speed of 25 m/s. The turbine will shut down and park at 25 m/s.

The CF-15 has a peak capacity of 15 kW. In between the cut-in wind speed and 25 m/s the turbine will produce varying amounts of electricity according to the wind speed.

The National Wind Speed Database has found for the kilometre square hosting the proposed Adamgill Farm turbine, NOABL reports predicted wind speeds of 5 m/s at a height of 15 m (NOABL, 2025). An initial desktop assessment based on this resource indicates that the turbine would produce around 34,000 kilowatt hours of electricity (kWh or units) per annum.

The average annual electrical consumption of each UK household is 4,700 kWh. Therefore, in terms of household electricity usage the electricity generated at the project would be sufficient to offset the equivalent annual electricity needs of just over 7 households or around 17 people.

3 BACKGROUND

3.1 PROJECT DESCRIPTION

The project incudes the following elements:

- Dismantling and removal of existing telecom mast
- Removal of three onsite equipment cabins
- Installation of a single CF-15 horizontal axis wind turbine with a hub height of up to 20 m and a rotor diameter of up to 11.1 m.
- Installation of an underground electrical cable linking the proposed turbine to Adamgill Farm

The above turbine dimensions will not be exceeded.

The Site of the proposed wind turbine occupies an area of 20 m² (bounded by the red line boundary shown in **Figure 2**.

The wind turbine will generate electricity for a period of up to 25 years, after which time it would either be removed, or the life of the project would be extended (subject to a further grant of planning permission).

It is proposed that the wind turbine will supply power directly into Adamgill Farm.

More details of the various project components are provided below:

CF-15 Wind Turbine

See Figure 3

The colour of the proposed turbine will be white to match the existing turbine further up the field.

Wind Turbine Foundation

The proposed turbine will replace the existing telecom mast and will utilise the existing foundation, where possible.

Access to Site

The existing field access track NE of the Site will be utilised for turbine transportation and access.

Onsite Cabling

Underground cables will link the turbine to the electrical distribution board at Adamgill Farm. Detailed construction and trenching specifications will depend on ground conditions encountered at the time, but it is anticipated that the cable will be buried in a trench approximately 0.75 m wide by 0.5 m deep.

3.2 CONSTRUCTION

The main construction period is likely to last for approximately 8 weeks and will comprise the following phases:

- Mobilisation, including demarcation of the site boundary if practical;
- Excavation of cable trenches and laying of electricity and communications cables;
- Delivery and erection of turbine components; and
- Site reinstatement and turbine commissioning.

Most of the above operations will be carried out concurrently, although roughly in the order identified, in order to minimise the overall length of the construction programme. Site restoration works will be programmed to allow the restoration of disturbed areas as quickly as possible and in a progressive manner.

Prior to the main construction works commencing on site, initial site enabling works will be required. These will be phased into the preconstruction period and will include off-site access consultation with regulatory authorities and detailed site investigation works.

Construction Hours

Construction activities will be limited to 7am to 7pm on weekdays and 7am to 12pm on Saturdays. This restriction will also apply to the delivery of the majority of components and materials to site. This is to reduce noise and traffic disturbances.

Turbine Erection

The turbine will be installed using hydraulic tilt installation. No crane will be required.

Construction Traffic

The predicted type and quantity of traffic movements arising from the construction phase of the works are not anticipated to be significant.

3.3 OPERATIONAL ACTIVITIES

Hours of Operation

The turbine will operate at all times when wind speeds are suitable, with the exception of any downtime for maintenance. Operational Traffic Movements.

Regular operational/maintenance visits will take place every six months will be undertaken in a light van or 4x4 vehicle.

Operational Lighting

There will be no lighting of the turbine during the operation of the scheme.

3.4 DECOMMISSIONING

The projected operational lifetime of the project is 25 years, after which time all of the sites components and the upper part of the foundation will be removed from the site.

4 NOISE ASSESSMENT

C & F 15 is rated at 34 dB at 5 m/s. This is below the ETSU-R97 recommended level of 35 to 45 dB. Situated in open ground, there should be no noise issues. The nearest uninvolved residential property is 190 m away from Mount housing estate. The existing wind turbine that is 90 m closer to the Mount housing estate has had no noise issues or complaints. Furthermore, the nearest property is up-wind of the prevailing south-westerly wind direction.

5 LANDSCAPE AND VISUAL

The visual impact of this development will be minimal at 15 m min height and is approximately one third of the height of the current mast structure which stands at 45 m. The contours of the land and positioning mean it cannot be seem from Loop Road, Rannerdale Drive or Parton. From the distance of Lowca, the proposed structure would be much less visible than the current structure and have less of a visual impact.

6 SUMMARY AND CONCLUSIONS

The proposal to construct a single domestic scale horizontal axis wind turbine wind turbine, not exceeding 20 m in hub height, and with an electrical output of 15 kW at Adamgill Farm has been carefully designed and located in order to minimise potential environmental effects. The applicant is keen to include a source of renewable energy generation as part of a plan to decarbonise the electrical, heating and transport requirements of the property.

The location of the proposed wind turbine has been carefully selected to minimise its potential visibility from nearby residential properties and settlements and any other sensitive receptors. Due consideration has been afforded to the impact of the turbine on the landscape character. Given the existing landscape and settlement pattern, and the small scale of the proposed turbine, it is considered that visual effects will be minimised and will be limited to the immediate surrounding area.

As such it is not considered that the proposed development will result in any unacceptable visual effects and that the scale of the proposal is appropriate for the location and purpose for which it is proposed.