

## **Design & Access Statement**

This statement draws together and expands on the design and access issues covered in the earlier description.

The design of the development is determined by the availability of equipment appropriate for the intended purpose of wind energy generation, and by the prevailing local wind conditions on and around the site. The mast is not a proprietary, off-the-shelf product, rather a *self-build assembly from either self-constructed parts or commercial parts*. The specified height is necessary to optimise the local wind flow. The rotor design is aimed at optimum efficiency of energy generation with minimal noise and visual intrusion.

The mast itself is as slender as is consistent with its required strength. The overall design is minimalist and functional for reasons of economy and to ensure optimum efficiency. The design of the turning mechanism (especially the absence of gearbox) ensures minimal noise. It is proposed to paint the mast in drab olive, to blend in with the natural and built surroundings.

The siting is also chosen to minimise any visual intrusion in the local landscape or any adverse impact on the rest of the property, including the dwelling house. The footings and anchorings are designed to ensure an appropriate level of stability under the stresses of windpower generation and anticipated local wind-force levels.

Access to the site is via an unmetalled farm track from A449 and through the drive of the property (as shown on the plans). Access is only likely to be needed for construction, erection and ongoing maintenance. No access is expected to be needed for emergency services, as there are no combustible parts, besides which any emergency vehicles would use the normal property access anyway.

## **Conclusion**

Our proposed development fully embraces the guidelines set out in national planning policy and makes a positive contribution to the future needs of energy generation in the UK. It also takes account of important local factors affecting the siting and design of the structure.

All dimensions are shown as millimetres.