

## **Procedure for developers proposing to erect small or micro wind turbines (50 kw or below) within the UK Seismological Array exclusion zone**

A number of wind turbines with a generation capacity of **no more than 50kw** have been shown to produce negligible seismic ground vibration in the frequency pass band of interest to the UK Seismological Array at Eskdalemuir.

A developer proposing to erect a small or micro wind turbine between 10km and 50km from the centre point of the UK Seismological Array at Eskdalemuir should do the following:

1. Contact:

Rachel Westwood MSc BSc AMIMA, or  
Sam Toon FGS  
Applied & Environmental Geophysics Research Group (AEG)  
Keele University  
Earth Sciences & Geography  
William Smith Building  
Keele  
ST5 5BG

Tel: +44 (0) 1782 733698  
Fax: +44 (0) 1782 733737  
Email: [wind@esci.keele.ac.uk](mailto:wind@esci.keele.ac.uk)  
Web: <http://geophysics.esci.keele.ac.uk/wind/small>

with details of the proposed turbine.

2. AEG will check the details of the proposed type of turbine against a list of turbine types that have already been assessed and have been shown to produce negligible seismic ground vibration in the frequency pass band of interest. **NO turbine with a generation capacity greater than 50kw has been assessed.**
3. If the proposed type of turbine is on the list, AEG will confirm in writing to Defence Estates (DE) that this is the case.
4. DE will issue a letter to the local planning authority or relevant parties confirming that the MOD will withdraw its objection/concern, or not object/express concerns, subject to the imposition of a condition specifying that the turbine type be as agreed.
5. If the proposed turbine is not on the list, the developer should commission and fund AEG to carry out research into the seismic energy it produces. **Turbines with a generation capacity greater than 50kw will NOT be assessed.**
6. If research carried out by AEG demonstrates that the proposed turbine type produces negligible seismic energy in the frequency pass band of interest, AEG will provide the MOD with a report to this effect.
7. MOD experts will assess the report. If they concur with the findings of the report, DE will issue a letter to the local planning authority or relevant parties confirming that the MOD will withdraw its objection/concern, or not object/express concerns, subject to the imposition of a condition specifying that the turbine type be as agreed. The turbine type proposed will be added to the list of turbines already assessed and shown to produce negligible seismic ground vibration in the frequency pass band of interest which is maintained by AEG (on a voluntary basis).
8. If the report produced by AEG indicates that the proposed turbine produces more than negligible seismic ground vibration in the frequency pass band of interest, or if MOD experts do not concur with the AEG report, DE will advise the local planning authority or relevant parties that the MOD has concerns about the development's impact on the Seismological Recording Station at Eskdalemuir, and will object should a planning application be submitted.

WITHDRAWN