CASE STUDY – ARKHILL WIND FARM

KEY DATA

- No. Turbines: 8
- Turbine Type: Enercon E-48 (800kW)
- Local Authority: Angus Council
- Turbine Installation Start: 10 December 2012
- Turbine Installation Finished: 15 February 2013
- Commissioning Complete: 29 March 2013
- Production: 18,500 MWh annually

CLIENT: ENERCON GMBH

Green Cat Renewables acted as a Site Agent for Enercon GmbH, providing welfare and site supervision as they installed and commissioned the turbines within this eight turbine site, near Glamis in Angus.

The key elements undertaken by Green Cat Renewables were:

- Maintain site welfare facilities in accordance with Construction(Design and Management) regulations
- Co-ordinate between the site installation teams and other contractors on site to ensure smooth working.
- Maintain the Installation Phase Health and Safety Plan on site
- Carry out necessary site inductions & maintain records
- Conduct weekly site audit & maintain records.
- Maintain a daily record of activities, including personnel numbers, plant records and H&S statistics
- Ensure all Lifting Equipment on site is in good condition and correctly certified.
- Maintain record of relevant Risk Assessments and Method Statements for activities on site.
- Maintain Near Miss and Accident records on site
- Ensure fall arrest equipment inspections are recorded and maintained daily
- Ensure daily briefing records are maintained
- Ensure daily pre-start check-list is undertaken (In conjunction with Installation Team Leader / Crane supervisor)
- Check Wind Speed records are maintained for lifting activities

The turbine deliveries started on 10 December 2012, with works following an accelerated programme in order to achieve full installation and commissioning before 1st April 2013, as required by the site developer.

To achieve a three month start-to-finish installation and commissioning of an eight turbine development, it was recognised that any delays would be significantly damaging to the completion date. Therefore a programme was devised incorporating two installation teams (including 250T and 90T cranes and 8 installation technicians per team) being deployed on site in order to take full advantage of the limited low wind days available during January and February in Scotland and up to four commissioning teams to electrically test and certify the eight turbines in time to meet the 1st April deadline.

Delays did occur on site, including several days where the site was covered with over 2m of snow, however with close communication between all the parties involved on site, the project was still commissioned before the developer's required completion date.