

CASE STUDY – RUBBERATKINS PROJECT

KEY DATA

- No. Turbines: 1
- Turbine type: Enercon E33 (330kW)
- Date Work Commenced: March 2011
- Date of First Generation: April 2012
- Annual Electricity production: 900MWh



GREEN CAT RENEWABLES WERE CONTRACTED AS THE CLIENT'S ENGINEER

Having successfully taken the Rubberatkins project from conception through the planning process, Green Cat Renewables were contracted as the Client's Engineer for the duration of the development of this single turbine project. The project involved the erection of a single Enercon E33 and associated works.

The key development issues associated with this project were; poor ground conditions and the requirement to integrate the turbine with the factory and offices.

THE PROJECT REACHED COMPLETION ON SCHEDULE

The poor ground conditions dictated that the foundations had to be piled, causing additional works and scheduling issues that Green Cat dealt with efficiently, ensuring the project reached completion on schedule. The primary incentive to install a turbine next to the Rubberatkins factory was to lower the large electricity costs that the company incurs. Green Cat facilitated this integration by sourcing

and appointing a competent electrical contractor, and liaising with SSE, Enercon and the contractor to ensure all aspects of the integration would run smoothly. The result was a turbine that, when generating, powers the factory and exports any excess power to the grid.

At present, electricity generated by wind power attracts not only a base level electricity price, but various enhancements due to it being a clean renewable source, giving a total price per unit of renewable electricity of between 9.5p/kWh and 23.5p/kWh depending upon size of scheme.

Planning permission was granted for Rubberatkins in July 2011, just 9 months later it was fully constructed and successfully operating and generating in April 2012.