

# Wind Energy

## Case Study

### North Mains of Cononsyth Wind Turbine

Cononsyth's Farm, Carmyllie, Angus



#### Project Overview

SAC Consulting became involved in this project at the very early stages. The farm facilities include refrigerated potato storage, which is an energy intensive operation. Grain drying and potato processing also add to the total energy use. Our client was concerned about the rising cost of conventional electricity and its impact on the future sustainability and growth of the business.



#### Services Provided

- Feasibility Studies
- Screening Request and pre-planning consultation with the council
- Supporting Document Compilation and relevant assessments
- Release of planning conditions
- Grid connection application and connection agreements
- Post consent and installation project management

*Leading the way in Agriculture and Rural Research, Education and Consulting*

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#### Outcome

SAC Consulting first started working on this site in 2009 and carried out a feasibility study to ascertain whether there were any environmental or technical constraints to the project. Landscape and visual impact of the proposed development was the main possible constraint that was identified and would need further investigation. In 2010, SAC Consulting submitted the planning application for a 330kW turbine at North Mains of Cononsyth along with all the relevant environmental assessments (landscape and visual assessment, ecological assessment etc.) to Angus Council. In 2011, the council approved this development under delegated powers.

Following this, SAC Consulting undertook post-consent project management tasks. Further noise monitoring was carried out to ensure compliance with revised guidance from Angus Council. Evidence was also provided to confirm compliance with all other planning conditions.

SAC Consulting continued to provide assistance through the installation phase by overseeing the procurement of the turbine and necessary balance of plant to allow on-site usage of the energy generated and by providing technical support through the civil work, turbine erection, grid connection and commissioning stages.

*“SAC Consulting’s knowledge and professionalism made the whole process run smoothly. They were a great help at explaining the benefits of on-farm wind energy. Their independence meant that they helped us look into a range of case studies, from 11kW turbines right up to 800kW turbines and ensured that the most suitable scale of turbine was selected to maximise the wind resource and minimise adverse environmental effects.” Mr J. Dowell*