



PROJECT SHEET

Novel Wind Turbine

Carnot closely supported an Australian company in the design and manufacture of a complete 20kW wind turbine system. The turbine featured novel geometry with a particular focus on low noise. The support comprised of a comprehensive system analysis followed by system and component design, production of a manufacturing datapack, procurement including selection of sub-contractors, documentation and project management. The team was made up of experienced mechanical and electrical/software engineers.

**The Carnot Group.
Creating clever engineering
outcomes, for a diversity of
clients across multiple industries.**

PRODUCT DESIGN

Carnot staff carried out the design of the complete system in the context of an existing concept demonstrator. They designed the rotating and non-rotating components of the turbine and pole, selected key sub-system components and oversaw development of a custom brushless generator. A family of products was developed ranging from 5kW to 20kW.

MARKETING SUPPORT

Carnot staff supported the marketing activities that were carried out in parallel with the product development. This support included site specific yield modelling and a number of pole concepts. A range of system sizes and configurations was modelled.

PROCUREMENT

The team setup and operated the procurement system for the project which included: policies and procedures, templates and QA/QC requirements.

DOCUMENTATION

The document control system for the project was set up and administered by Carnot.

PROJECT MANAGEMENT

Carnot was invited to project manage the project and in this role team members setup the project time lines, task descriptions and allocations.

For more information visit carnot.com.au

Phone +61 3 9013 9397
Mobile +61 408 108 018
Email nwoodman@carnot.com.au

