



# Northern Power<sup>®</sup> 60

Robust, High Output Wind Turbine

## Quiet. Confident.



### Low height profile, less noise, easier planning, cost effective.

» **Large rotor—high output:** The 60 kW turbine meets the energy needs for residential, farm, and small business installations while also providing valuable income from the UK Feed-in Tariff (FiT).

» **Turn it on and go back to work:** Our turbine is designed for ultimate reliability, so you don't have to be in the business of generating electricity or hire a team of full-time professionals to reap the benefits of wind power.

» **Easier planning with low height profile, tower options:** The elegantly designed Northern Power 60 comes with a standard 23-metre tubular steel tower, or optional 30- and 37-metre tubular or lattice towers that help you balance annual energy production (AEP) and planning requirements.

» **Generate healthy income:** The Northern Power 60 can produce enough electricity to generate a healthy income stream. It provides long-term benefits and pays for itself quickly, with lower ownership costs over the lifetime of the turbine.

» **Quieter operation:** Our gearless design, advanced blades, and lower rpm and tip speed, all contribute to lower noise levels and allow for a longer set back distance.

» **Plug and play—grid-friendly interconnect:** Unlike synchronous generators, there is no inrush current with the Northern Power 60. Power converters regulate output so it will not spike, making the Northern Power 60 a grid-friendly choice.



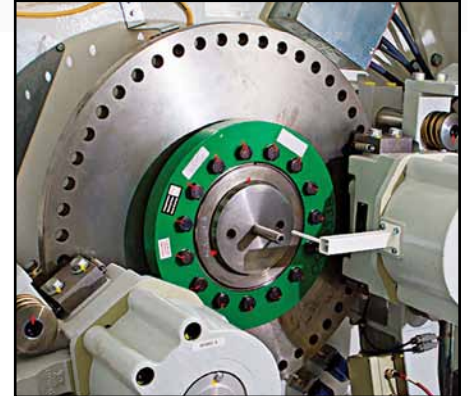
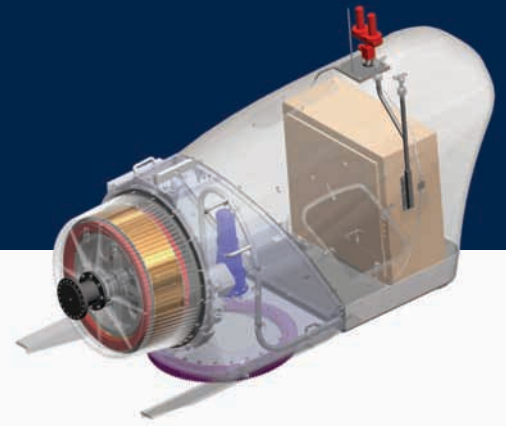
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# Robust Design



## More energy... less maintenance.

Built on the time-tested Northern Power 100 platform that was originally designed for Antarctica and proven in Alaska, the Northern Power 60 combines a generator, controls, and electrical components specifically engineered for the 60kW model, with best in class price performance and proven reliability.

»»**Robust:** The Northern Power 60 is built on the time-tested NPS 100 platform that not only stands up to the strong winds of Scotland, the windiest country in Europe but regularly faces hurricane force winds in Alaska and the Caribbean.

»»**Optimised to generate the highest output in UK winds:** Our turbines can begin making power at wind speeds as low as 3 metres per second (6 mph) and provide the highest power at 13-15 mps, providing clear economic benefits in all kinds of wind regimes.

»»An engineering advancement in simplicity and precision, **our gearless direct drive technology** maximises energy capture, outperforms conventional gearbox designs, and reduces maintenance costs.

»»Our **state of the art power converter** design provides smooth, clean power to local grids, which simplifies grid interconnect and adds to grid stability, making the Northern Power 60 the best choice for a variety of applications.

»»**Unbreakable blades:** Fibre reinforced polymer with a unique aerodynamic design that is built to last. During the blade *ultimate strength test*, which uses a 90 ton crane and a 30,000 lb concrete anchor and bends the blade until it breaks, testers were unable to break the blade.



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