



# High performance small wind turbines

**Gaia-Wind: an established designer and manufacturer of small wind turbines ideally suited to farms, rural properties, businesses, and community projects.**

**[www.gaia-wind.com](http://www.gaia-wind.com)**



**Gaia-Wind**  
GENERATING BETTER VALUE



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**Gaia-Wind turbines have a long track record of performance. Over 500 of our wind turbines have been installed worldwide with a combined operational history of more than 1500 years.**

Our 133-11kW turbine benefits from more than 20 years of Danish design experience, and we continue to invest in its research and development. Originally a Danish company established in 1993, our global headquarters are now located in Glasgow, Scotland, from where we manufacture and distribute our turbines worldwide.

### Generating electricity for:

- Farms
- Rural properties
- Businesses
- Community projects

## Why install a Gaia-Wind small wind turbine

### Reduced energy costs

Energy prices are predicted to rise dramatically over the next few years. Generating and using your own electricity reduces both your energy bills and your dependency on utility companies.

### Income generation

Earn an additional income from selling excess electricity back to the grid. Additional government subsidies and incentives may also be available.

### Clean, green energy

A Gaia-Wind 133-11kW turbine generating 30,000kWh of green electricity per year will offset around 17 tonnes of CO<sub>2</sub> emissions. This is enough to erase the carbon footprint of the average four person household.

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**Designed for locations with average annual wind speeds of between 10-17mph (4.5-7.5 m/s), our turbine is ideally suited to sites with large open spaces such as farms, rural properties, businesses, and community projects.**

## **About the Gaia-Wind 133-11kW turbine**

### **High energy production**

A large 13m blade allows the turbine to capture much more energy from the wind than similar rated turbines, which means higher electricity production.

### **Faster payback**

High energy production means earlier payback on your investment, and greater earnings.

### **Rigorously tested design**

Nearly 20 years of Danish design experience and field testing. Rigorously tested and approved by Risø in Denmark (HB Certificate), TÜV-NEL in United Kingdom (MCS Accreditation), and NREL in USA.

### **Quiet running**

One of the quietest turbines of its size thanks to a constant speed blade rotation.

### **Reliability and safety**

Three levels of braking mechanisms ensure that the blade never runs out of control.

### **Available parts**

We use high quality off-the-shelf components so you can always be assured of spare parts.

### **Warranty**

Five year warranty

Forget generator size. Did you know that the most important factor in assessing the performance of a wind turbine is the swept area of the blades? This is the size of the area covered when the rotor blades turn. The bigger the blades, the more energy collected from the wind.

### Typical annual energy production\*

5m/s site: 27,500kWh

6m/s site: 38,000kWh

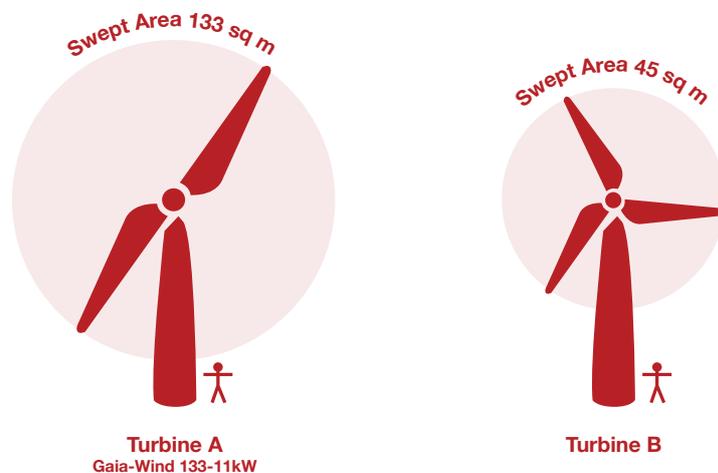
7m/s site: 46,500kWh

\*Based on Microgeneration Certification Scheme test data

## Bigger blades are better

The Gaia-Wind 133-11kW wind turbine has a very large swept area of 133m<sup>2</sup> which is considerably bigger than many other small wind turbines on the market.

### Bigger blades = bigger production



Same generator size

“Nothing says more about a wind turbine than rotor diameter. Nothing.”  
**Paul Gipe, author of Wind Power For Home and Business**



The main source of noise from a wind turbine is caused by the blade tips cutting through the air, and as the blades pitch or furl in high winds. Turbine noise generally increases the faster the wind blows.

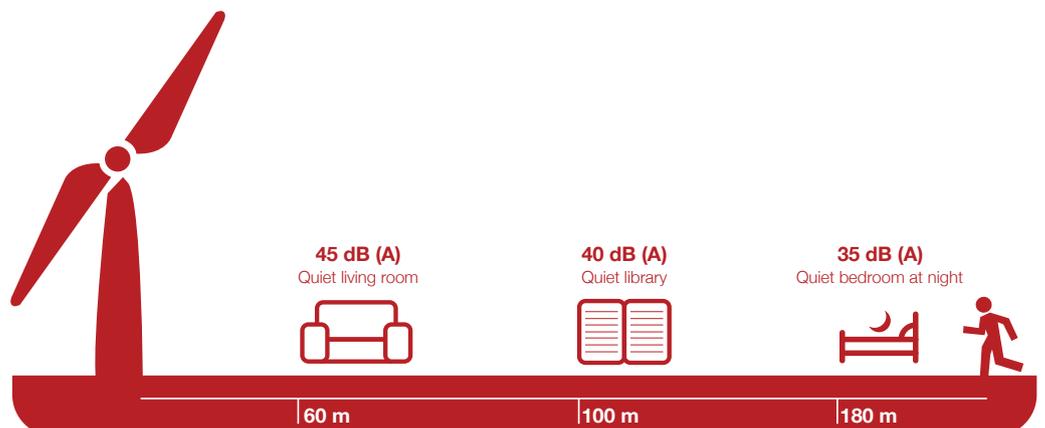
### Gaia-Wind 133-11kw turbine

- High energy yield
- Fast payback
- Internationally tested
- Reliable
- Quiet
- Clean energy

## Understanding turbine noise

The Gaia-Wind 133-11kW turbine is expertly designed to rotate at a constant speed, ensuring that noise levels remain low across its operational range, and even in high winds. The blades do not feather or furl.

**What the Gaia-Wind turbine sounds like from different distances in a moderate 8m/s breeze, or good kite flying day!**



# What our customers say...

“Since commissioning, the turbine has operated faultlessly and has achieved a higher output than projected. It runs very smoothly and quietly and cannot be heard in the house which is only 70 metres from it.”

“Visitors are impressed that the turbine is so quiet and that it is productive even in reasonably light winds...”

“The tower is 150 metres from our home and it’s absolutely silent. We are producing more energy than we need; probably about 70% is exported to the grid.”



**Gaia-Wind Ltd**  
100 High Craighall Road, Port Dundas  
Glasgow, G4 9UD, United Kingdom

Call us on: + 44 (0)845 871 4242 Follow us:   