



The evolution of renewable energy



Boost your solar output with a Hybrid **RidgeBlade** solution

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RidgeBlade®

About RidgeBlade®

The RidgeBlade® System provides an innovative solution for wind-based renewable energy generation. Adopting an entirely new design philosophy, the RidgeBlade® addresses many of the drawbacks associated with Solar PV and traditional wind turbines.

RidgeBlade® wind turbines are designed to operate quietly and to be visually pleasing. Unlike conventional tower based wind turbine designs, the low visual profile will not obstruct the view. RidgeBlade® Turbines are mounted on the peak of a roof ridge so that the gradient of the roof collects and accelerates air flow into the turbine rotor.

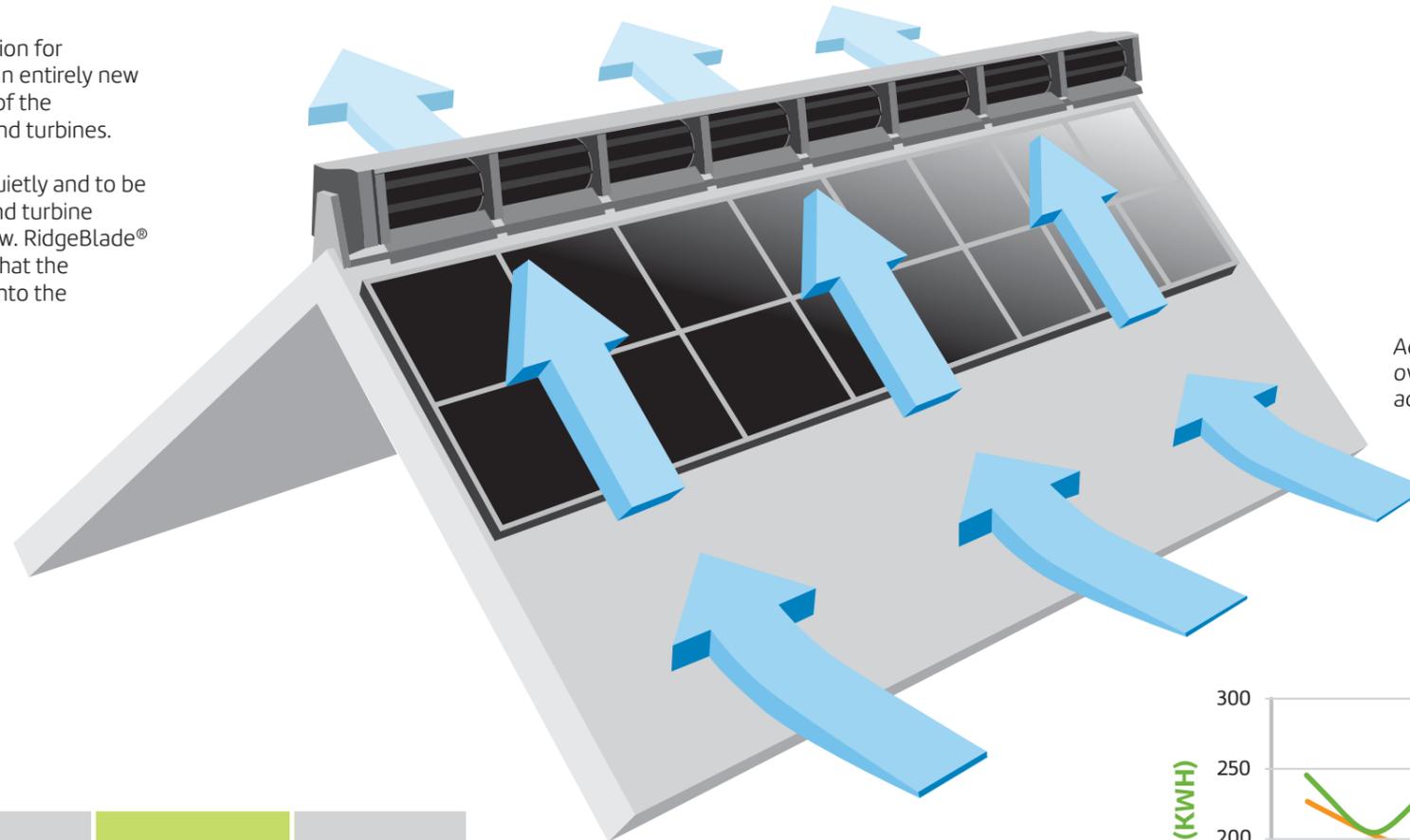
How it works

Aeolian Wind Focus Effect

Air can travel about 3X faster over a peak of a roof. Using the existing surface area of a pitched roof, the RidgeBlade® collects and focuses the prevailing wind, harnessing the Aeolian Wind Focus Effect. The wind is forced to travel over the roof surface and forms a pinch point at the roof ridge, accelerating the airflow through the turbine.

Product Description

| | | | | | |
|------------|------------|----------------------------------|-------------------------|---------------------------------------|--------------------------|
| RB1 | Domestic | Designed for 30-60° roofs | 2kW output/ 5 rotors | Compatible with 3KW ABB wind Inverter | 1.3 mp/s start-up speed |
| RB2 | Commercial | Designed for flat or 0-60° roofs | 2kW output/ 5 rotors | Compatible with 3KW ABB wind Inverter | 1.18 mp/s start-up speed |



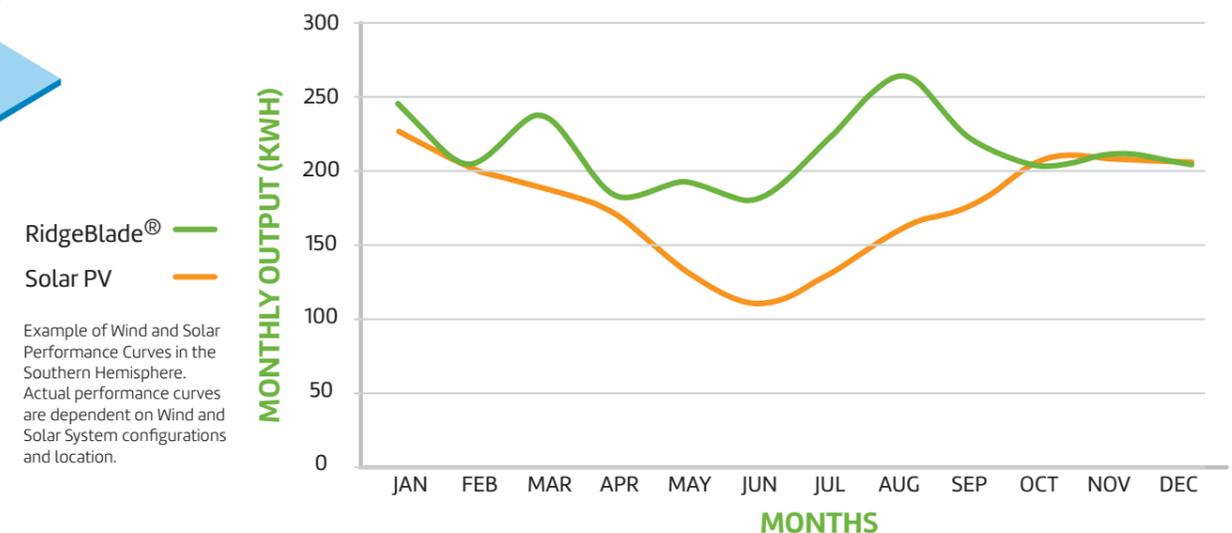
Hybrid Energy Solutions RidgeBlade® and Solar PV

To maximise power generation across the whole year, RidgeBlade® turbines provide power output at night and in winter months when solar panels are less active. A common grid infrastructure for wind and solar installations provides stability in energy production and will help avoid seasonality of solar and wind sources individually.

Aeolian wind focus effect forces the wind over the roof surface to the ridge, accelerating the airflow through the turbine.

Hybrid Harmony

To maximise power generation across the whole year, RidgeBlade® turbines provide power output at night and in winter months when solar panels are less active.



Off grid,
stand-alone
solutions

Quiet and vibration-free
Efficient in low and high wind speeds
Residential and commercial

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On grid,
domestic and
commercial
solutions

RidgeBlade advantages

- Microgen wind turbine for residential and commercial roofs (flat and pitched roofs)
- Simple and effective for harnessing wind power
- Efficient in variable wind conditions from low to high speeds
- 100% performance 0-45°; bi-directional operation
- Able to operate in turbulent air (urban environment)
- Lies low along the roof-ridge with low visual impact
- “Planning-friendly”, unlike other vertical turbines
- Safe from over-speeding in storms
- Quiet and vibration-free
- Modular design makes RidgeBlade® uniquely scalable
- Installation skills similar to solar



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SHIFT POWER | ENERGIZE YOUR WORLD
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RidgeBlade
Aeolian wind turbines

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