



IceWind develops and manufactures high-performance micro vertical-axis wind turbines (VAWTs) designed to provide reliable, renewable energy for critical infrastructure, including communication towers, weather stations, emergency systems, and on-grid and off-grid facilities.

Our turbines are engineered and tested in Iceland—one of the world's harshest and windiest environments—to ensure exceptional durability and performance.





RW600

Category	Value	
Startup Wind Speed	135 Mph	60 m/s
Cut in wind speed	5.5 Mph	2.5 m/s
Rated wind power at 10 m/s	600 W	
Maximum wind power	Peak	3000w
Daily energy production	Typical range	5-10 kWh/day
Generator	1000 W AFPMG	
Dimensions	92 x 66 inch	2244 x 1700 mm
Turbine weight	170 Lbs	80 Kg
Total system weight	400 Lbs	180 Kg
Noise level	< 30 dB	
Number of blades	3 inner, 3 outer	
Operation Temperature	-13 , + 104 F	-20 (extendable), + 40C
Survival wind speed	156 Mph	70 m/s

The **RW** Series vertical-axis wind turbine (VAWT) is a compact 100 W and 600 W renewable energy solution designed to deliver reliable power for remote telecommunications and critical infrastructure. Engineered and tested in Iceland's harsh Nordic climate, it provides dependable performance in strong winds, cold temperatures, and challenging weather conditions.

Its durable, space-efficient design enables installation close to the ground or on existing structures such as telecom towers and rooftops, reducing installation complexity and infrastructure costs.

Ideal for off-grid and hybrid power systems, the RW600 helps telecom operators reduce diesel consumption, minimize maintenance visits, and improve network uptime through continuous, low-maintenance energy generation. The turbine's low rotational speed also enhances safety for both personnel and wildlife.

Flexible Mounting Options

The RW wind turbine can be mounted directly on towers, installed on ground frames, or integrated into mobile tower systems. When properly configured, it can withstand wind speeds of up to 70 m/s (160 mph), equivalent to Category 5 hurricane conditions.

IceWind also provides custom mounting solutions for demanding and challenging environments.



IceWind SKIPP is a mobile hybrid renewable energy system that combines a vertical-axis wind turbine with integrated solar panels and battery to deliver reliable, continuous power in remote environments. Built for demanding industrial conditions, it provides a fast, robust, and cost-efficient alternative to diesel-only power generation.

The system operates as a standalone power source or integrates with existing energy infrastructure, such as diesel generators and fuel cells, significantly reducing fuel consumption, refueling logistics, and operating costs.

Designed for rapid deployment, IceWind SKIPP features telescopic masts and retractable solar panels for safe, fast installation in remote locations. The system can be operational in under 10 minutes for temporary use or fully deployed in about two hours for long-term operation.

Ideal for mining operations, industrial sites, research facilities, telecommunications equipment, and remote infrastructure, IceWind SKIPP delivers reliable power with minimal maintenance and environmental impact.



Category	Value	
Rated wind power	Continuous At 10 m/s	600 W
Maximum wind power	Peak	3000 W
Solar array power	Installed DC capacity	1260 W
AC output (single phase)		1000 - 4000 W
Battery voltage		24 / 48 VDC
Battery size	10 kWh	Scalable
Daily energy production		10–25 kWh/day
Dimensions		
	Folded	86 x 60 x 85 Inch / 2244 x 1535 x 2180 mm
	Unfolded	110 x 153 x 196 Inch / 2836 x 3900 x 5000 mm
Operation Temperature	- 13 , + 104 F	-20 C , + 40 C (extendable)
Survival wind speed	110 Mph	50 m/s
Total system weight	2090 Lbs	950 Kg
Setup Time	10 min/ 80 min	2 x people





IceBox is a modular renewable energy system that combines solar panels with a IceWind vertical-axis wind turbine in one compact structure. The solar array is mounted above the turbine at an adjustable tilt angle to optimize performance throughout the year. IceBox helps buildings reduce reliance on the grid, cut carbon emissions, and boost energy resilience during peak demand or outages.

Designed for flat and low-slope rooftops, IceBox can be easily installed as a single unit or arranged in rows or perimeter layouts to scale power generation. Its lightweight aluminum frame ensures simple handling and long-term durability.

IceBox delivers continuous clean energy by harnessing both sun and wind—maximizing output where space is limited.

Category	Value	
Rated wind power	Continuous At 10 m/s	1.2 kW
Maximum wind power	Peak	4.4 kW
Solar array power	Installed DC capacity	8.4 kWp
AC output (single phase)	Nominal	230 VAC, 50 Hz – 4 kW
AC output (split-phase, optional)	Optional configuration	240 V split-phase – 8 kW
Daily energy production	30–50 kWh/day*	
Survival wind speed	110 mph	50 m/s
Total system weight	2000 lbs	900 kg

*Subject to environmental condition.

