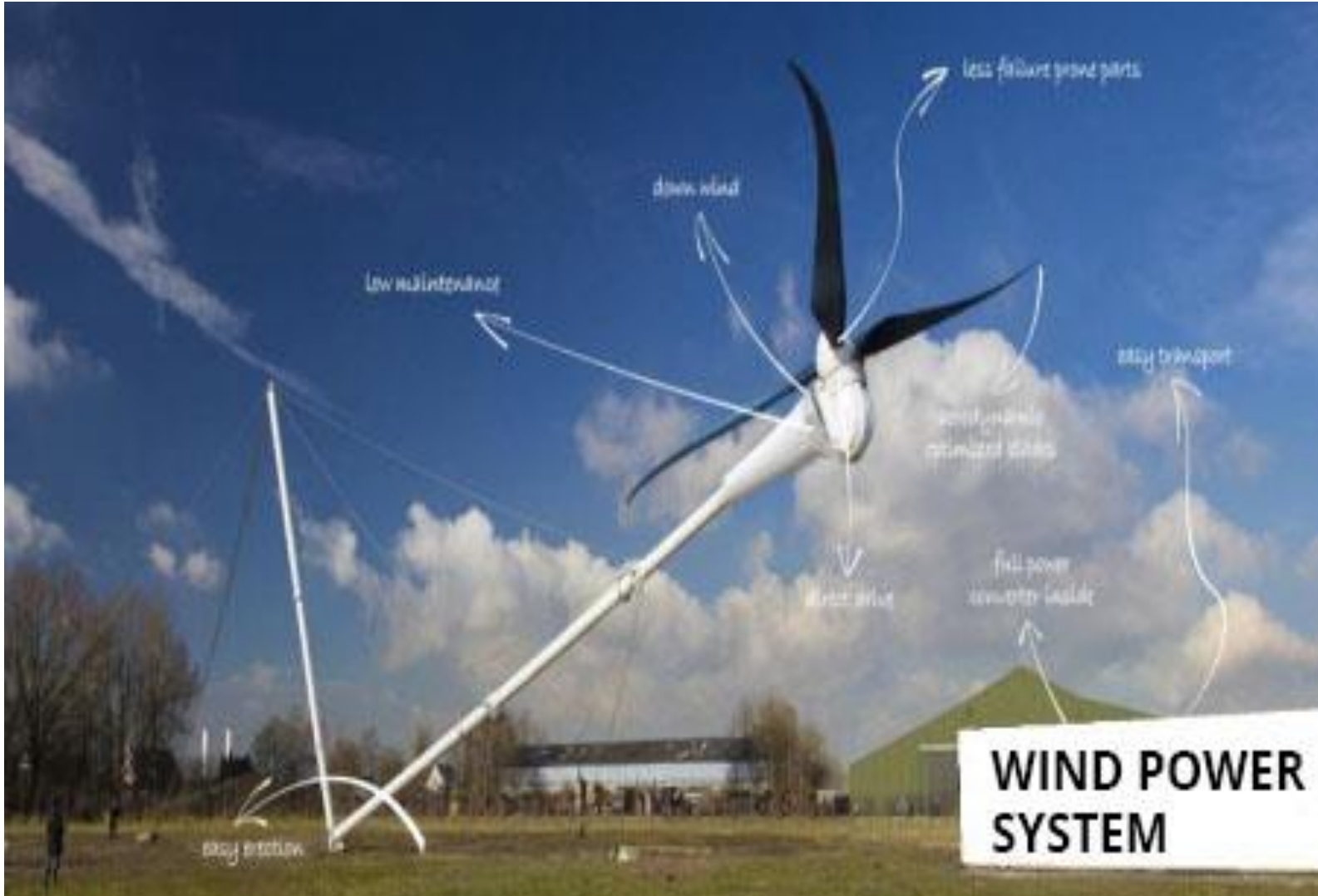




# OFF-GRID WIND TURBINES FOR PAPUA NEW GUINEA





Off-grid wind power systems :

## **WIND POWER CAPACITY: 100 KW WIND POWER SYSTEM**

The turbine comes ready to go – no grid link-up, direct dispersal of power. Low-cost, independent power supply.

INSTALLED IN PLACE.



## TURBINE RATING

Power:	100 kW
Factor:	0.9
Cut Wind Speed:	3m/s
Survival Wind Speed:	70m/s
Rotor Speed:	58 rpm
E Output:	400 VAC 50/60 Hz

## FOOTPRINT – MASS

Tower mass:	7.5 tons; height 30
Total mass:	14 tons
Footprint:	+/- 15m <sup>2</sup>
Concrete volume:	80m <sup>3</sup>

## TRANSPORTATION – INSTALLATION

Container type:	40' High-cube ISO
Set-up:	gin-pole with reeving system



## SET-UP

The turbines are shipped in standard 40-ft containers. This dramatically reduces the transport cost and ensures parts arrive on-site undamaged. The container can be kept on-site for housing the converter and to double as a control room or an optional battery-storage system.





## **NO CRANE INSTALLATION**

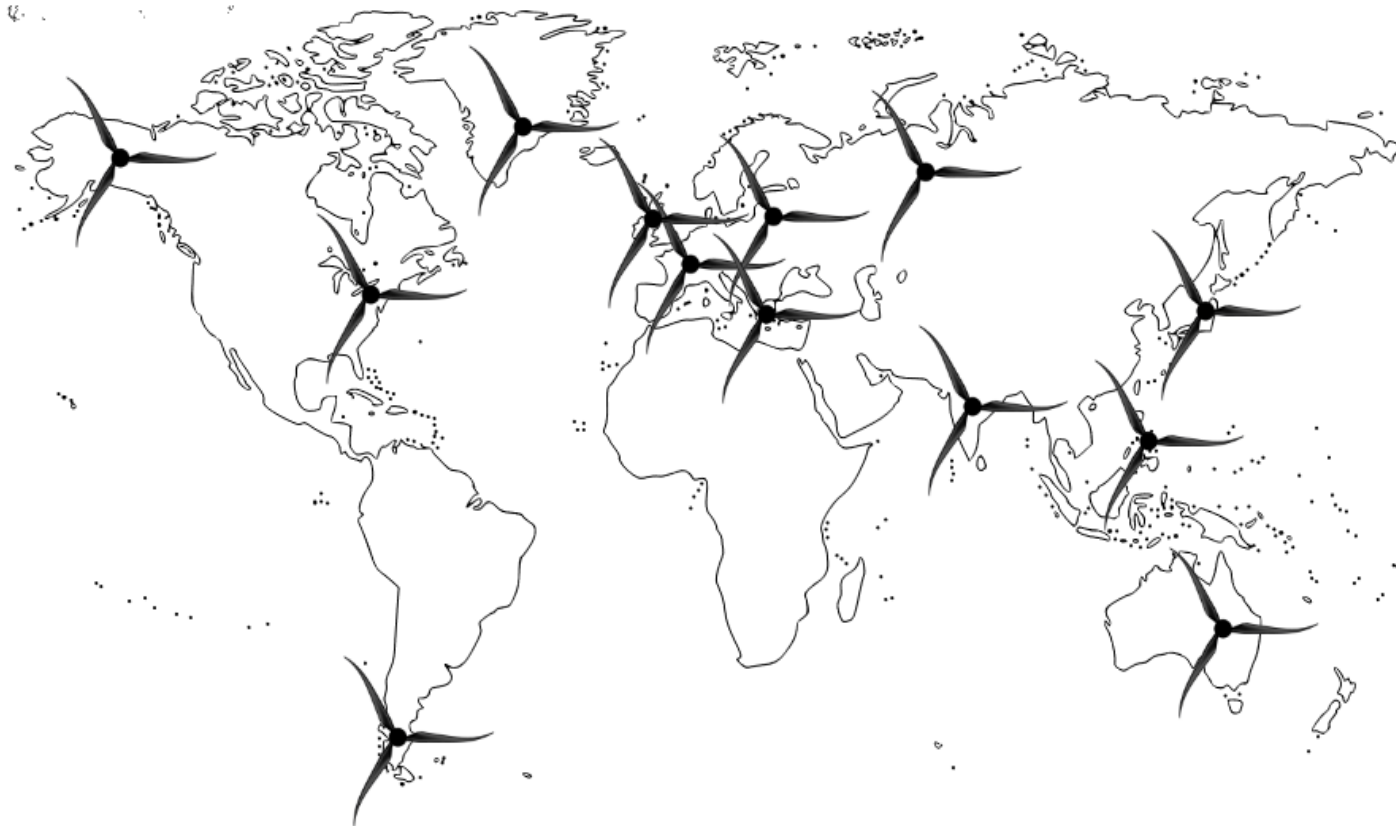
Ground composition (sand, gravel, rock, etc.)

There are no components which require a lot of maintenance. This includes the gearbox and the pitch system. The converter and the entire control system are easily accessible at ground level on the tilt-up towers. All maintenance operations can be done on-ground.



## **RELIABILITY**

The wind turbines offer a high degree of reliability where it matters most: in remote locations with difficult access and lengthy and costly repairs. The most failure-prone parts have been eliminated, ensuring maximum availability at minimum cost.



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