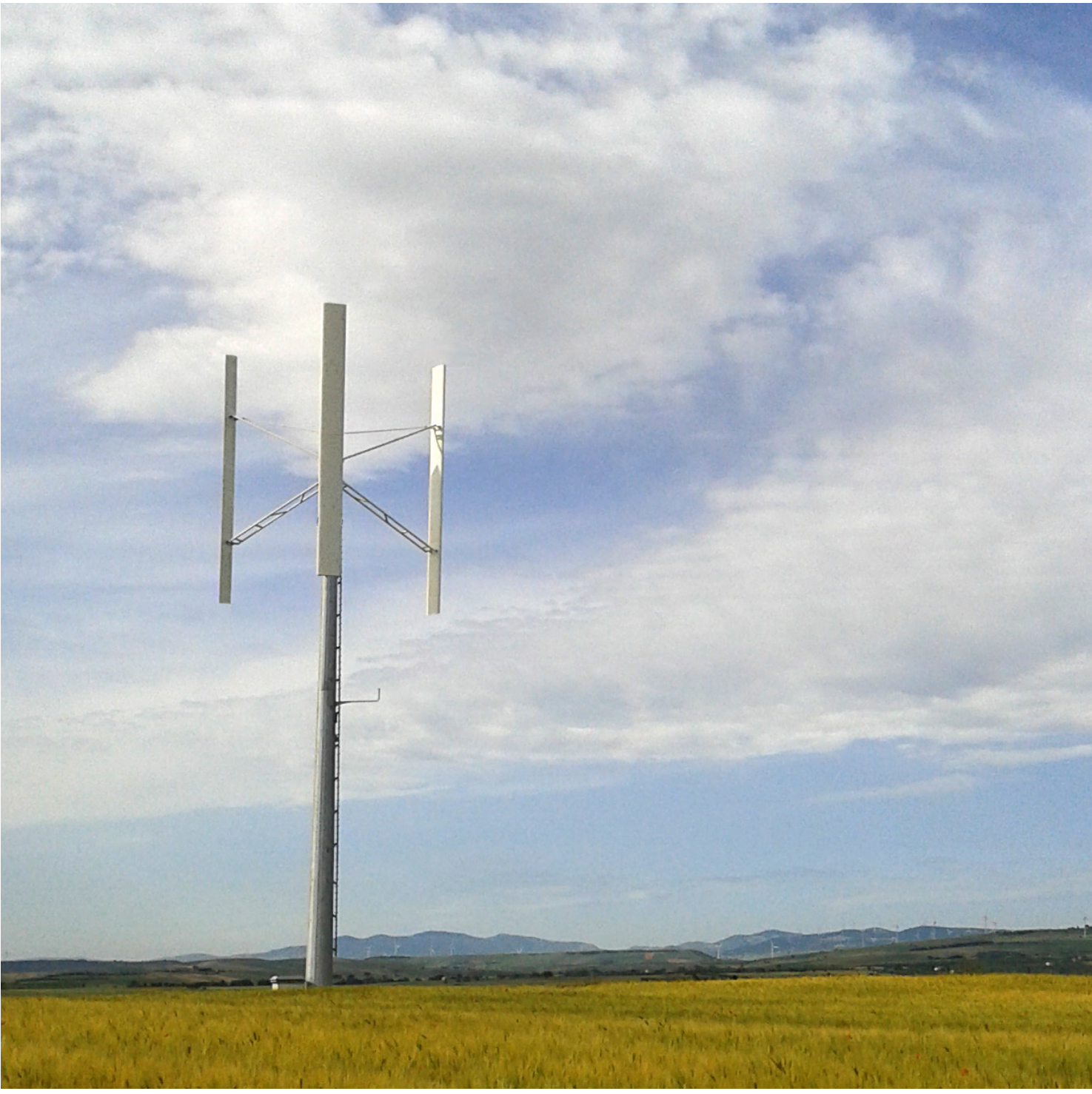
SANO pro

BIEGGA
ANOTHER ENERGY

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RECYCLABLE 86%

DESIGNED AND MADE IN ITALY

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ENG

TECHNICAL DATA

Turbine and generator manufaturer	ROPATEC
Model	SA-70
Power	10 kW
Swept area	70,2 m²
Wind speed	
Cut-in	ca. 3 m/s
Cut-out	19 m/s
Wind class according to IEC61400-2	Class III
Generator	Permanent magnet
Transmission system	Direct drive
Blade material	Fiberglass
Rotor diameter	7,8 m
Blade length	9 m
Overspeed control	Safety PLC Controller SIL-3 (electrical and hydraulic brake)
Noisiness	
Value	42 dB
Wind speed	8 m/s
Distance from mast	30 m
Mast	
Height	18 m
Weights	
Turbine	2100 kg
Mast	2350 kg
Monitoring system	SDMR based on SCADA
Operating temperature	-20°C/+55°C



SILENT



INDEPENDENT OF WIND DIRECTION



APAS
ACTIVE PERFORMANCE ADAPTING SYSTEM



PRODUCTION AT HIGH WIND SPEED



HIGH EFFICIENCY AND RELIABILITY



LOW MAINTENANCE



MONITORING AND REMOTE CONTROL



PLUG AND PLAY



VERSATILE APPLICATIONS

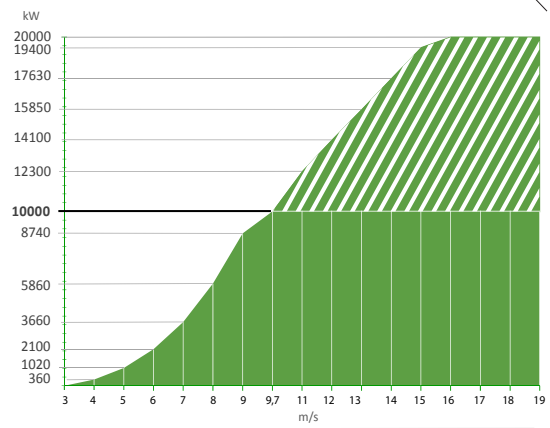
APAS
ACTIVE PERFORMANCE ADAPTING SYSTEM

The power curve is constantly trimmed to maximize efficiency in accordance with local wind conditions

AEP - Annual Energy Production*

Average annual wind speed [m/s]	[kWh] per year	Self-consumption coverage per household
4,5	14150	
5	19000	
5,5	23950	
6	28800	
6,5	33400	
7	37650	

Nominal power curve**



The data reported reflect ideal work conditions and subject to change due to external factors such as temperature, altitude, atmospheric pressure, turbulence level, humidity and presence of obstructions.

3500 kWh correspond to average annual consumption of a family of four.

* Production at sea level with laminar wind speed and Weibull distribution shape parameter k=2.

** The power curve is indicative and not explicative. It is set in accordance with site characteristics. The data correspond to laminar wind.