

**HYBRID
SYSTEMS**

ENERCUBE 500

TECHNOLOGIES

- Patent Protected
- 10 years warranty
- Designed for power generation at low wind speeds and continuous wind capture in all directions
- 48VDC operational systems

CONFIGURATION

- Grid-tie system
- Hybrid controller with battery system, charger and inverter
- Automatic grid back-up to batteries

SOLUTIONS

- Sustainable wind and solar hybrids
- Platforms with multiple wind turbines available

SAVINGS

- Utility customers can gain in sustainability while saving on their electric utility bills
- "Have wind, will save" approach since wind turbines will outperform solar PV on a 3 to 1 basis

MODELS

- Different models available including 100 and 300 watts turbines and a multitude of solar panel configurations

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HIGH PERFORMANCE TURBINES

Turbines offer almost frictionless generation. Unlike conventional wind generators, which have the orientation of the rotor and stator magnets symmetrically around the centerline, the EnerCube rotor interacts with a network of magnets partially superimposed which maximizes repulsion and the attraction between the magnets on both sides of the central axis, greatly facilitating the rotation of the turbine.

PATENTED WIND CATCHERS AND HYBRID CONTROLLER

The wind catcher design greatly optimizes the effective wind surface area for energy production. The wind and solar hybrid controller continuously stores the energy produced, thereby ensuring that all the energy harnessed by the wind turbine is stored in the battery system, regardless of wind speed.

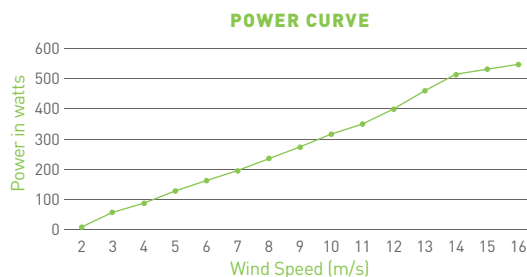
OPERATING CHARACTERISTICS

- Silent operations, no turbine noise
- No vibrations or humming
- No electromagnetic interference

EnerCube Hybrids feature the most efficient wind turbines available in the market place. These vertical axis turbines produce three-phase Alternative Current (AC) that is routed to a hybrid controller that manages both that AC energy and the Direct Current (DC) production of electricity from the solar panel. The rack mounted solar panel on top of the EnerCube structure may be extended to include up to two panels.

All energy produced by the wind turbine is stored in the hybrid controller, no matter the wind speed. When the voltage of the energy in the hybrid controller exceeds the level of battery voltage, all energy stored in the hybrid controller is transferred to the batteries, making sure that absolutely all the energy produced by the wind turbine replenishes the batteries.

Solar panels are either mounted above the EnerCube structure or affixed to a support on a roof or on the ground. The coupling of the wind turbine optimized by the hybrid controller, the solar and battery storage is clearly the winning combination for an efficient sustainable energy system.



FOR MORE INFORMATION, CONTACT:

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Make the world a better place

**WIND
& SOLAR
HYBRID
SYSTEM**



**ENERCUBE AND
SOLAR HYBRID SYSTEM**

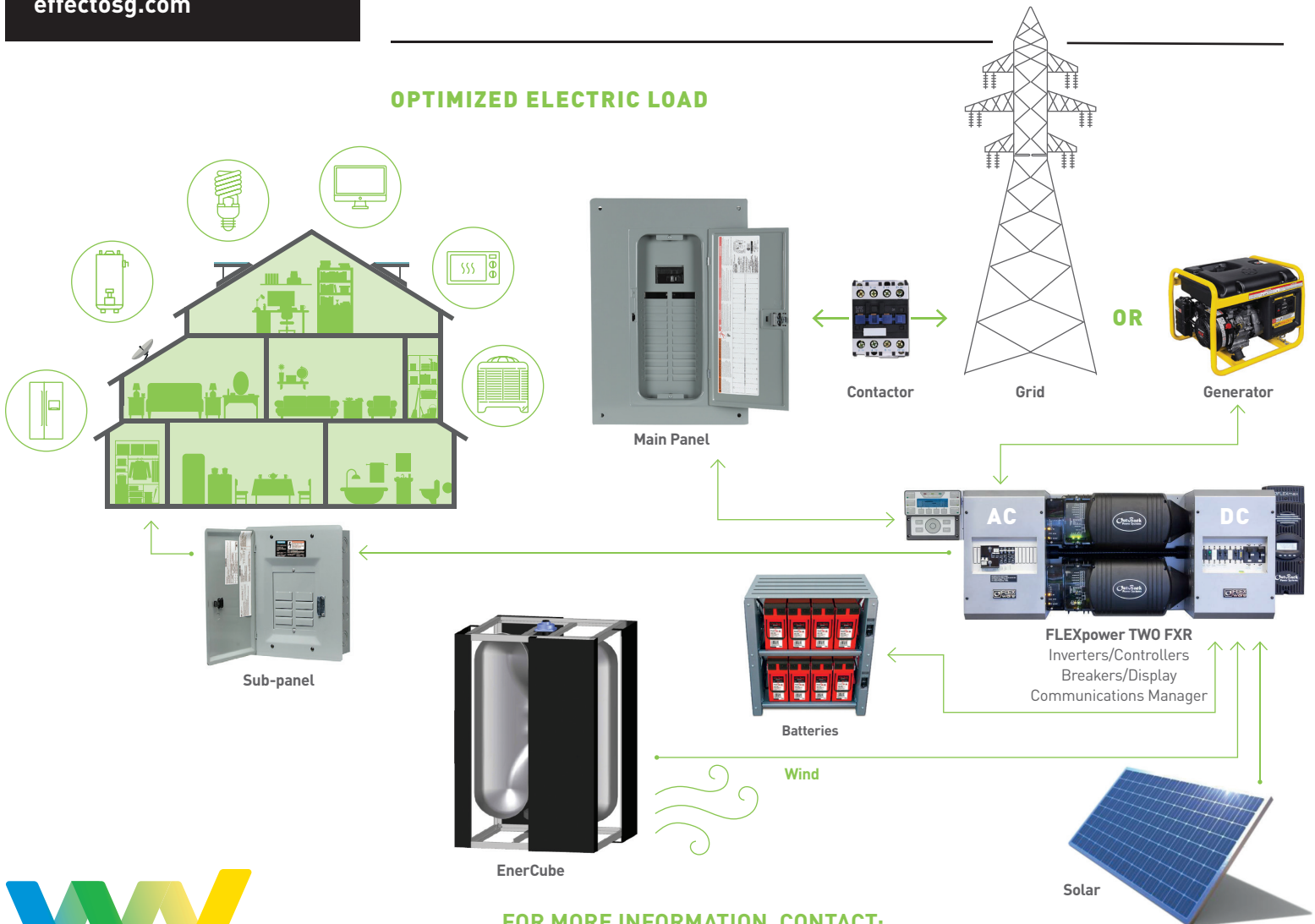
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**SPECIFICATIONS:
OUTBACK POWER SYSTEM**

Includes pre-wired AC and DC power Bus systems:

- Two (2) FLEXmax 80 Charge Regulators
- Two (2) 3.6 kW inverter with overcurrent protection devices (175A)
- One (1) FLEXnet DC Communications Manager + one (1) HUB 10 Communications hub
- One (1) Mate 3 Display & Control System
- Overcurrent protection devices for photovoltaic system (80A)
- Equipped with battery circuit breakers, a set of 220 VAC split-phase bypass and a overvoltage limiter

OPTIMIZED ELECTRIC LOAD



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