

# Benefits of Installing a KLiUX Solution



## SAVE FROM DAY ONE

Independence from the electricity grid. No impact from future increases in the price of gas oil. Decreased O&M costs.



## REMOTE MONITORING

Through our remote communication monitoring system you will have access to generation and control data at any time and from most of today's mobile devices.



## NOISELESS

Virtually no noise, which makes it suitable for installation in any environment. Less than 32-6 dBA at 6m/s and from a 10m distance.



**ENVIRONMENTALLY FRIENDLY** Prevents birds from getting near and is respectful of other wildlife. Resistant to extreme environments and weather conditions.



Distributed Energy Solutions

## Download Documents



Brochure



Technical Data Sheet KLiUX Zebra



Technical Data Sheet Hybrid System

To request information, email us:  
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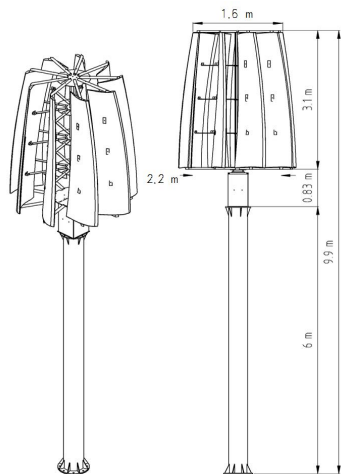




# Wind Hybrid System

## solar photovoltaic

### Maximum generation without noise



#### UNIQUE DESIGN

- Designed to maximize energy output in urban, residential and publicly transited areas.
- First vertical-axis wind turbine with 9 blades in a Savonius type rotor (drag) configuration made out of special density expanded polyurethane.
- Internal high precision micro planetary gear box
- Low rpm Permanent Magnet Generator -PMG
- Designed and made in Spain.

#### PRODUCT ADVANTAGES

- No startup or braking system needed
- Minimal maintenance
- Noiseless
- Aesthetic visual Integration in urban and rural locations
- Bird friendly

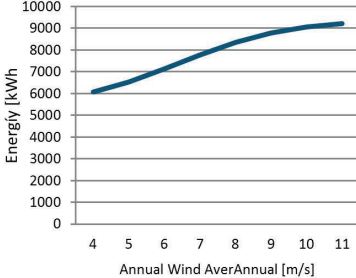
#### APPLICATIONS

Ideal for supplying 100% of an average power consumption of a family home

Hybrid Energy System for private residences, public areas, rural tourism, sports, agriculture, mountains, roofs tops and decks

Blades provide an excellent opportunity for branding and advertising. Corporate Social Responsibility (CSR)

## Performance & Specs

WIND AVERAGE		ENERGY	TOTAL ANNUAL ENERGY CURVE
(m/s)	(kWh)		
4	6.073		
5	6.535		
6	7.130		
7	7.770		
8	8.347		
9	8.787		
10	9.071		
11	9.212		
			

WIND TURBINE ASSEMBLY COMPONENTS	
Vertical axis wind turbine (VAWT) Kliux Zebra 2kW	
High Precision Micro Planetary Gear and Three-phase Permanent Magnet Generator	
Steel mast with anti-corrosion painting protection.	
Wind inverter & Controller	
Voltage discharger / resistance break.	
Communications module & Weather station (optional).	

SOLAR PHOTOVOLTAIC ASSEMBLY	
16 photovoltaic panels, monocrystalline at 250W each (4.000 W total)	
Solar Inverter Solis 5K-2G , 230 Vac, 50 Hz (Ginlong)	
Aluminum structure to host the photovoltaic panels	

WIND TURBINE DIMENSIONS AND WEIGHTS	
Rotor + Generator and transmission weight: 116.67 kg. + 120.37 kg = 237.04 kg (522.58 lbs)	
Mast Weight: starting at 232.6 kg (512.8 lbs)	
Rotor diameter: 2.36 m (7 ft, 9 in)	
Rotor / Transmission height: 3 m (9 ft, 10 in) / 0.83 m (2 ft, 8 in)	
Mast height: starting at 6 m (19 ft, 8 in)	

WIND TURBINE YIELDS	
Nominal power: 2.000W	
Start up speed: 3.5 m/s	
Disconnection wind speed: not applicable. Aerodynamic brake	
Maximum rotation speed: 106 RPM	
Noise at 6m/s and of 10 m. distance: 32.6 dBA	
Durability: 25 years	

# Real world applications for our renewable

## KLiUX hybrid energy solutions

The Kliux Technical Office Team will design a fully customized energy solution to meet your exact energy needs, after assessing key elements of your project:

1. Energy consumption needs
2. Availability of wind and solar resources at installation point
3. Area and surface characteristics of installation site
4. Availability of financial incentives for renewable energy projects
5. Onsite configuration of equipment
6. Cost amortization analysis
7. Flexible payment terms—up to 100% financing may be available

#### Rural Tourism

Cabins, hostels and country houses with access to the grid or with a backup generator, coastal hotels, spas.

districts, public, as well as commercial and office buildings.

#### Rooftop Mounted

Residential buildings, Industrial warehouses, shopping centers,

#### Agriculture

Wineries, wells, pumping stations, farms and dairies.

#### Sports Facilities

Yacht clubs and lighthouses, yachts and boats, golf courses.

#### Mountain and Forest

Mountain lodges. Fire watchtowers. Ski resorts.

#### Public Sector

Urban planning roads, pedestrian walks and bike lanes, squares and parks, intelligent networks for towns, villages, neighborhoods,

#### Private Residences

Partial or total supply of housing needs, community of property owners, common areas (elevator, lighting, pool), picnic areas and wine cellars.

