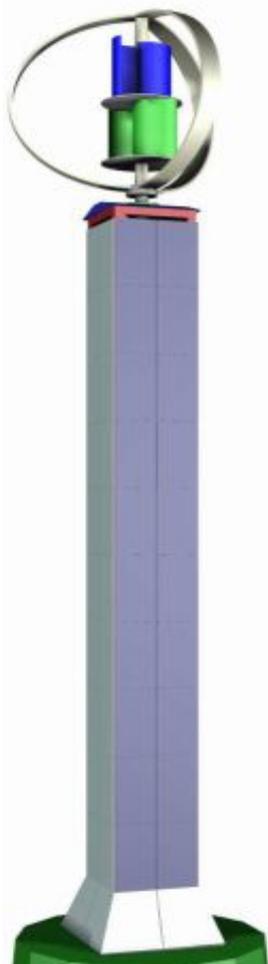




EnergyTower® is a compact solar-wind hybrid power plant - a stand-alone tower with a vertical wind turbine and photovoltaic modules - which allows you to produce your own ecological electricity from the sun and wind in a sustainable way, wherever you need it. The installation is simple and inexpensive, all technical components are integrated in the interior (all-in-one), it can be used for any consumers applications.



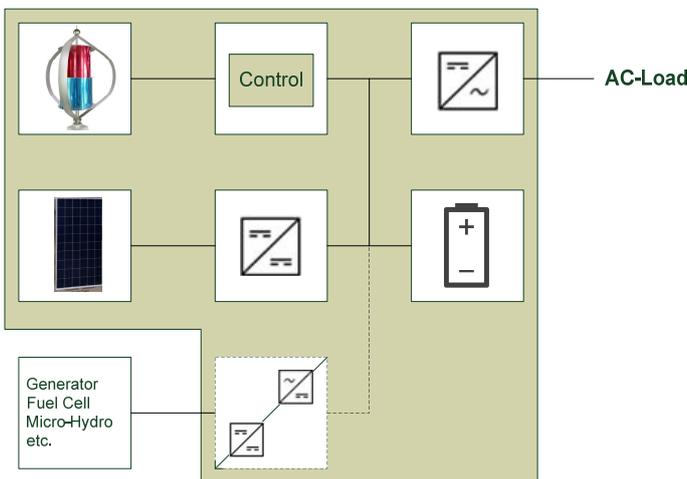
### Advantages

- Modular scalable size - from 2 to 23 metres high
- Space-saving - Erection on a very small footprint
- Suitable for mobile and permanent installations
- On- and Offgrid (stand-alone) operation - expandable according to energy requirements
- Storage space for devices and technical equipment
- Efficient production in winter and night (depending on location)
  - Use of local winds such as mistral, bora, trade winds, etc. and the general winter winds
  - Vertical PV modules (low sun position)
  - Snow-free PV modules
  - Power generation in periods of bad weather
- Vertical wind turbine
  - independent of wind direction
  - Robust technology - low maintenance
  - Responsive and aesthetic design
  - Low noise emissions
  - Suitable for gusty wind conditions

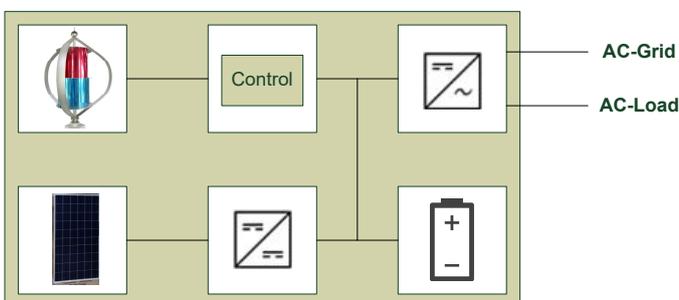
### Applications

- House roofs and terraces
- Gardens and farms
- Mountain huts, holiday homes and camping
- Houseboats, beach houses and island systems
- Groundwater pumping and treatment stations
- Remote technical installations (telecommunications, research, monitoring and weather stations, Internet hotspots, surveillance, etc.)
- On parking lots for electric vehicles - charging stations
- Trade and industry (advertising display can be integrated)

The EnergyTower® can be configured and expanded for various applications - AC and DC applications - depending on the power requirements.



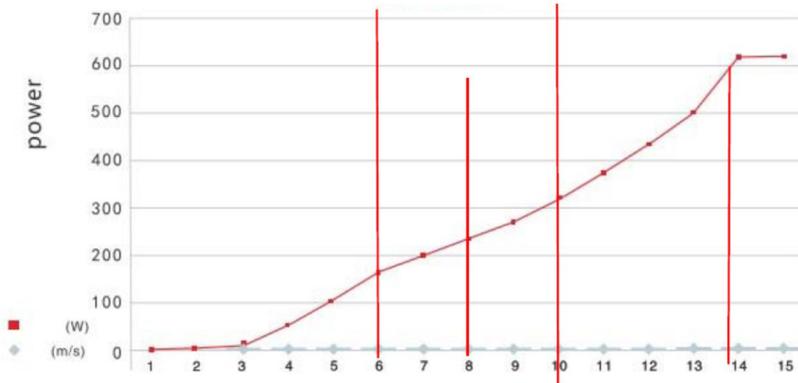
Mains-independent AC configuration with battery storage  
 DC intermediate circuit with battery 12, 24 or 48V  
 Options: third energy source (AC or DC), energy management, monitoring.



AC configuration with mains connection and battery storage  
 DC intermediate circuit with battery 12, 24 and 48V.



**VWKT Wind turbine 600 W - Power curve and technical data**



|                      |               |
|----------------------|---------------|
| Cut-in               | 1.3m/s        |
| Nominal Wind         | 13m/s         |
| Performance at 5m/s  | 110W          |
| Performance at 13m/s | 600W          |
| Survival Wind Speed  | 65m/s         |
| Dimension            | 2m x 1.5m     |
| Weight               | 51 kg         |
| Generator type       | PMG, AC-3     |
| Brake system         | Control-brake |
| Amb. temperature     | -40~50°C      |

| EnergyTower* Product - Specifications                          |               |       |              |               |           |        |                     |        |
|--|---------------|-------|--------------|---------------|-----------|--------|---------------------|--------|
| Solar-wind-hybrid power plant - grid and off-grid power supply |               |       |              |               |           |        |                     |        |
|  | Nominal power |       | Annual yield |               |           | Height | Diameter of turbine | Weight |
| Type   | PV            | Wind  | PV (45N)     | Wind (5.0m/s) | total ca. |        |                     |        |
| Size   | Wp            | W     | kWh          | kWh           | kWh       | Meter  | Meter               | kg net |
| Small  | 1'320         | 600   | 650          | 500           | 1'150     | 3.6    | 1.54                | 650*   |
| Medium   | 2'640         | 1'000 | 1'300        | 1'000         | 2'300     | 4.0    | 2.1                 | 870*   |
| Large  | 26'400        | 5'000 | 13'000       | 5'000         | 18'000    | 23.0   | 5.7                 | 3500   |

All yield data are annual average values at an average wind speed of 5 m/s and Solar radiation data from the location Zurich Switzerland.  
 Price on request. All data without guarantee. Subject to change without notice.  
 \* including ballast for stabilisation

The EnergyTower®\* is also supplied without a wind turbine. The tower can be made of the following materials, depending on the application and local conditions:

- Aluminium
- Steel (stainless A2)
- Wood
- Bamboo (in development)

