

**MW ⚡ kW**  
MEGAWATTS TO KILOWATTS

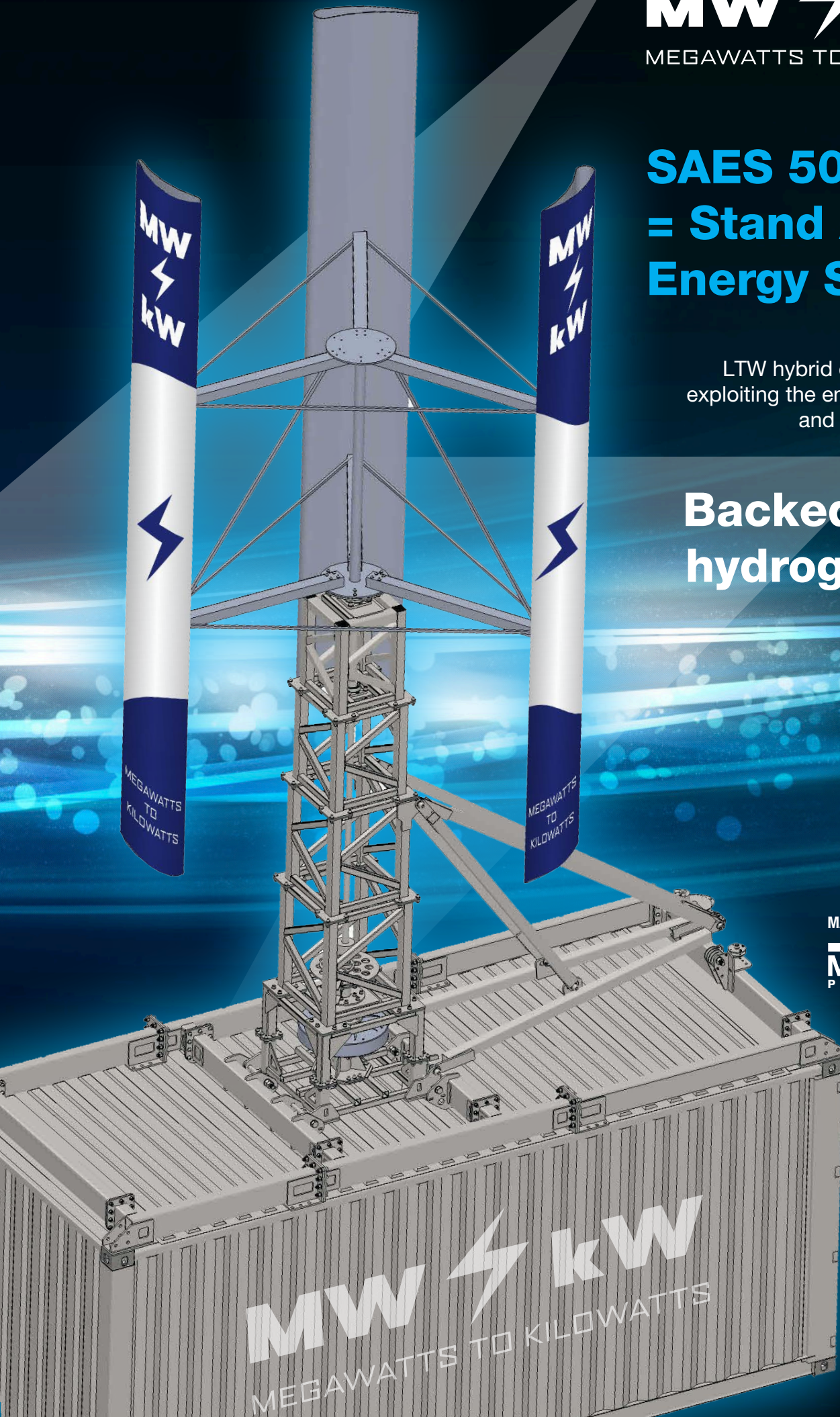
**SAES 5000**  
**= Stand Alone**  
**Energy Station**

LTW hybrid combination,  
exploiting the energy of the wind  
and solar

**Backed-up by**  
**hydrogen cell**

MANUFACTURED BY

**MONARCH**  
PRAHA



LTW hybrid combination, exploiting the energy of the wind and solar

# SAES 5000 = Stand Alone Energy Station

## SAES 5000 = Stand Alone Energy Station

- ⚡ Nominal output 5 kWp
- ⚡ Nominal wind speed 12 m/s
- ⚡ Start-up speed 1.6 m/s
- ⚡ Electromagnetic brake wind speed 108 - 218 km/h
- ⚡ Height 5,5 m
- ⚡ Diameter 3,5 m
- ⚡ Maximum rotor revolutions 100 n/min
- ⚡ Permanent Magnet Generator NdFeB
- ⚡ Output voltage 230 VAC
- ⚡ Weight 420 kg
- ⚡ Noise level < 40 dB

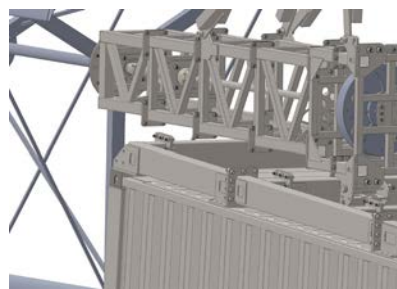
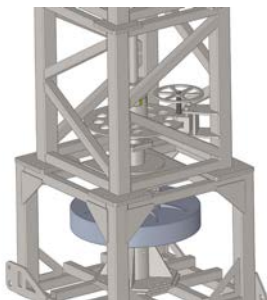
## Hybrid installation (solar and wind energy) Backed up by Hydrogen Cell Cube I

### Principle of operation:

Power from the wind generator and solar panels charges the battery. Gained power is then used to power appliances.

### Advantages:

The solar energy serves as a stable supply during insufficient wind conditions. Wind energy serves as a reliable source of power when the sun can not provide enough energy. "Windsolar" system = ideal solution for independent energy supply.



- ⚡ Horizontal wind turbine **MVE 5000**
- ⚡ Photovoltaic modules 3 kW
- ⚡ 20ft container
- ⚡ Hydrogen Cell Cube I
- ⚡ Complete electronics and software
- ⚡ Battery technology - LiFeUP4 -
- ⚡ 3000 / 6000 / 12000 Ah (or custom capacity power bank)
- ⚡ 4x independent power output with priority control

### Other accessories that can be delivered:

- ⚡ Diesel generator of performance according to the customer's requirements
- ⚡ Water treatment of specification according to the customer's requirements
- ⚡ Water pumping device possibility of external water pipes solution
- ⚡ 3 kW Hydrogen cell or other technology regarding customer's specification

LTW hybrid combination, exploiting the energy of the wind and solar

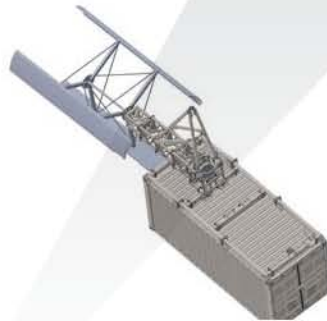
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Installation overview:

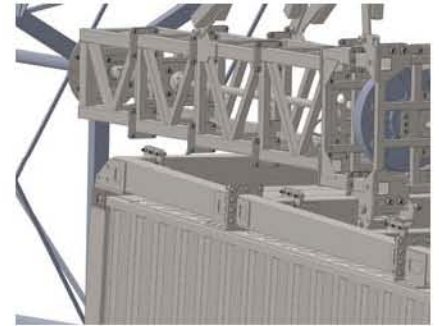
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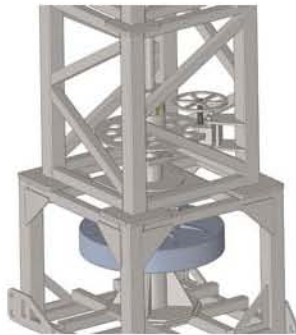
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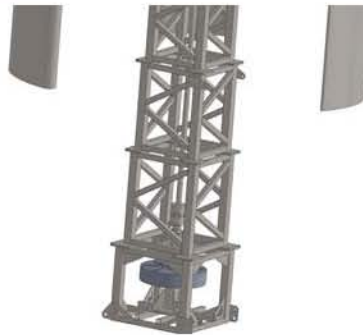
3.



4.



5.



6.



**Propeller**  
80x470 cm

