

VertiGo SRG

# VERTICAL WIND TURBINE

A wind turbine that catches both  
light breeze and roaring storm.

Traditional HAWT' efficiency is 17%,  
VertiGo SRG (VAWT) can reach 43%.

Application areas:

- a) households
- b) SME
- c) isolated areas (islands, jungles)



Renewable energy  
innovation award  
1<sup>st</sup> place

## CONTACT

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# VertiGo SRG

- ▶ **VertiGo** wind turbine can capture light breeze of 2 km/h and upwards
- ▶ **VertiGo** wind turbine can handle strong wind of 90 km/h and above
- ▶ **VertiGo** wind turbine highest wind ever tested was 240 km/h
- ▶ **VertiGo** collects wind from any directions
- ▶ **VertiGo** operates at low spin of 30/min
- ▶ **VertiGo** efficiency is 43% vs market average of 17%
- ▶ **VertiGo** wind turbine makes no noise – 20/30 db plus the surrounding noise. In no wind the wind turbine makes no noise and in wind the wind turbine spinning makes less noise than the wind
- ▶ **VertiGo** Lifespan: 30 years

# VertiGo production figures

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| KWh capacity                         | 10,00 VertiGo |          |          |          |
|--------------------------------------|---------------|----------|----------|----------|
| wind average km/h                    | below 30      | 45,00    | 55,00    | above 90 |
| windy hours / day                    | 8,00          | 8,00     | 8,00     | 8,00     |
| actual production at average wind KW | 3,00          | 10,12    | 19,76    | circa 25 |
| KW / month                           | 719,59        | 2 428,60 | 4 743,36 | 6 000,00 |
| KWh capacity                         | 10,00 HAWT    |          |          |          |
| wind average km/h                    | below 30      | 45,00    | 55,00    | above 90 |
| windy hours / day                    | 8,00          | 8,00     | 8,00     | 8,00     |
| actual production at average wind KW | -             | 10,12    | 19,76    | -        |
| KW / month                           | -             | 1 457,16 | 2 846,02 | -        |

VertiGo

HAWT

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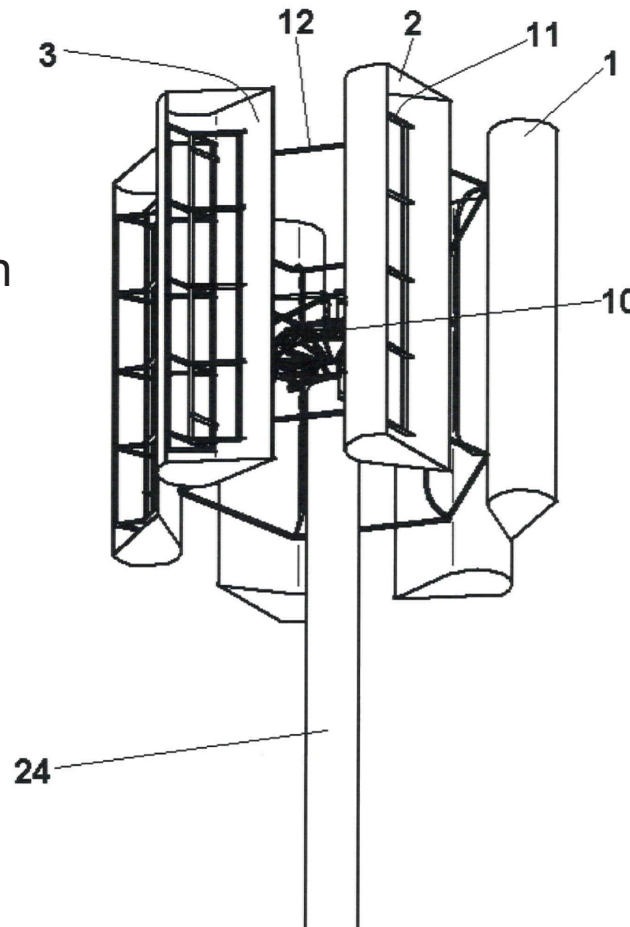
| KWh capacity                         | 20,00 VertiGo |          |          |           |
|--------------------------------------|---------------|----------|----------|-----------|
| wind average km/h                    | below 30      | 45,00    | 55,00    | above 90  |
| windy hours / day                    | 8,00          | 8,00     | 8,00     | 8,00      |
| actual production at average wind KW | 6,00          | 20,24    | 39,53    | circa 50  |
| KW / month                           | 1 439,17      | 4 857,20 | 9 486,72 | 12 000,00 |
| KWh capacity                         | 20,00 HAWT    |          |          |           |
| wind average km/h                    | below 30      | 45,00    | 55,00    | above 90  |
| windy hours / day                    | 8,00          | 8,00     | 8,00     | 8,00      |
| actual production at average wind KW | -             | 20,24    | 39,53    | -         |
| KW / month                           | -             | 2 914,32 | 5 692,03 | -         |

VertiGo

HAWT

# VertiGo system parameter

- 1 Vertical wind suction
- 2 Wind suction pipe closing
- 3 Wind suction side
- 10 Magnets and generator
- 11 Wind break
- 12 Support element
- 24 Holding pole



- 20 kW capacity
- 48 – 800 V DC / 3 phase AC
- Off grid
- Target: Households, SME
- inverter supported: Victron Energy, Fronius, SMA, etc
- Height: 400 cm
- Width: 500 cm
- Rotor: 20 m<sup>2</sup>
- Weight: 1000 kg
- Generator support: 425 mm diameter, 20 mm thick steel with 6 pieces of 20 bore diameter on a 370 mm dial