

VertiGo SRG

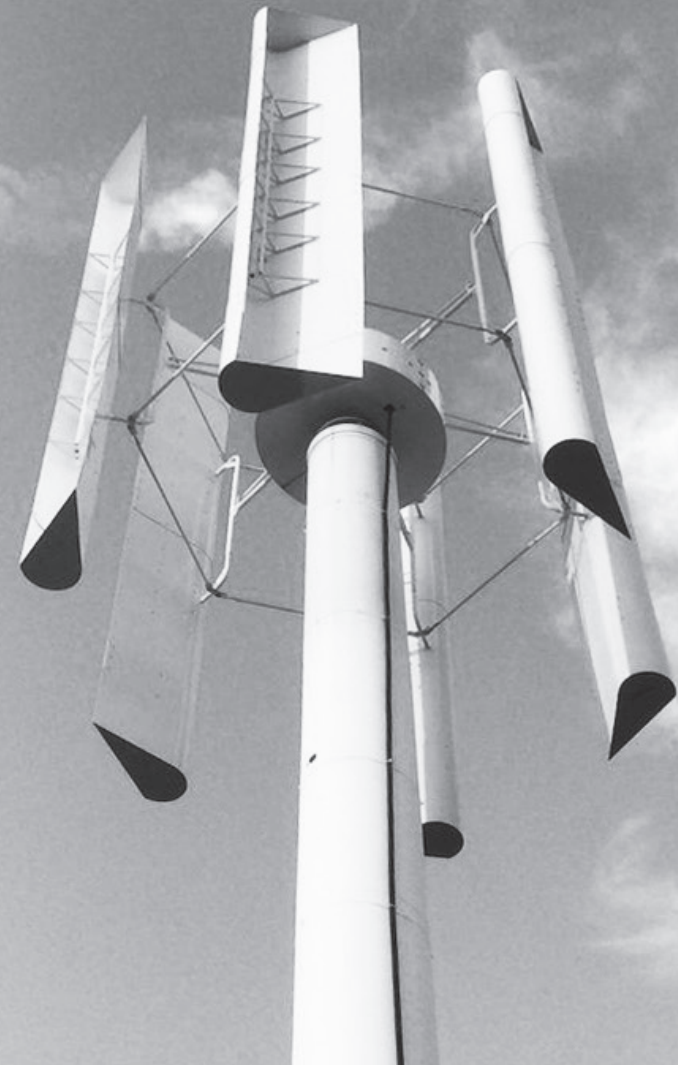
VERTICAL WIND TURBINE

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)



CONTACT
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Renewable energy
innovation award
1st place

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

10

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

20

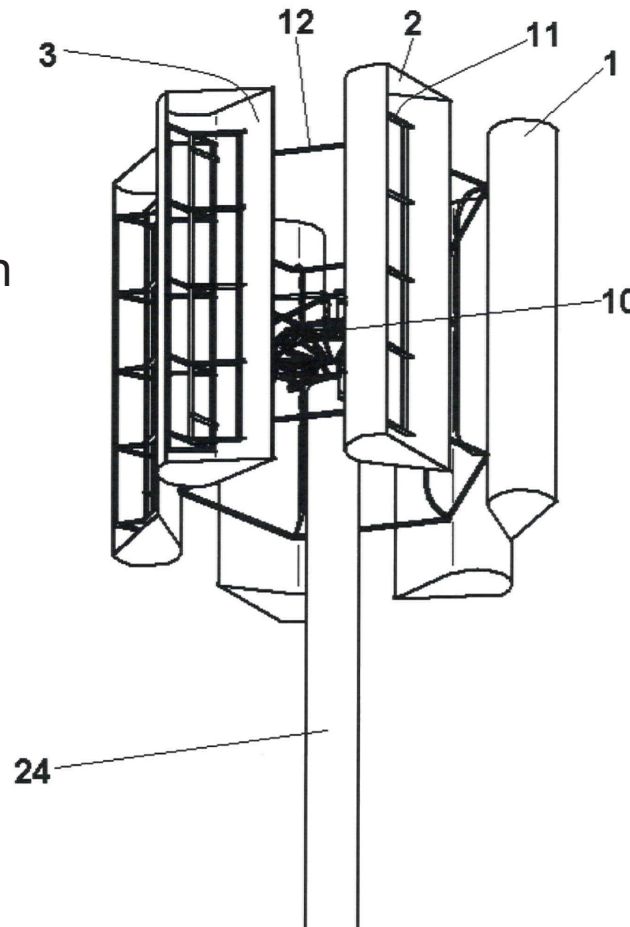
KWh capacity	20,00 VertiGo			
wind average km/h	below 30	45,00	55,00	above 90
windy hours / day	8,00	8,00	8,00	8,00
actual production at average wind KW	6,00	20,24	39,53	circa 50
KW / month	1 439,17	4 857,20	9 486,72	12 000,00
KWh capacity	20,00 HAWT			
wind average km/h	below 30	45,00	55,00	above 90
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 m²
- Weight: 1000 kg
- Generator support: 425 mm diameter, 20 mm thick steel with 6 pieces of 20 bore diameter on a 370 mm dial