

VertiGo SRG

VERTICAL WIND TURBINE

A wind turbine that catches both light breeze and roaring storm.
Traditional HAWT' efficiency is 17%,
VertiGo SRG 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

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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 financial results

| Annual production | VertiGo KW | HAWT KW |
|-------------------|------------|-----------|
| 20 KW turbine | 21 237,76 | 12 120,08 |

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| | | | |
|---|----------|-----------|-----------|
| KWh capacity | 10,00 | | |
| wind average m/s | 8,00 | 12,00 | 15,00 |
| windy hours / day | 8,00 | 8,00 | 8,00 |
| actual production at average wind W | 2 998,27 | 10 119,17 | 19 764,00 |
| KW / month | 719,59 | 2 428,60 | 4 743,36 |
| electricity price - grid | 0,12 | 0,12 | 0,12 |
| electricity price - private clients | 0,60 | 0,60 | 0,60 |
| % sold to grid | 20% | 20% | 20% |
| % sold to private clients / own consumption | 80% | 80% | 80% |
| monthly revenue EUR | 362,67 | 1 224,01 | 2 390,65 |
| Breakeven in months | 148,90 | 44,12 | 22,59 |

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| | | | |
|---|----------|-----------|-----------|
| KWh capacity | 20,00 | | |
| wind average m/s | 8,00 | 12,00 | 15,00 |
| windy hours / day | 8,00 | 8,00 | 8,00 |
| actual production at average wind W | 5 996,54 | 20 238,34 | 39 528,00 |
| KW / month | 1 439,17 | 4 857,20 | 9 486,72 |
| electricity price - grid | 0,12 | 0,12 | 0,12 |
| electricity price - private clients | 0,60 | 0,60 | 0,60 |
| % sold to grid | 20% | 20% | 20% |
| % sold to private clients / own consumption | 80% | 80% | 80% |
| monthly revenue EUR | 725,34 | 2 448,03 | 4 781,31 |
| Breakeven in months | 128,22 | 37,99 | 19,45 |