


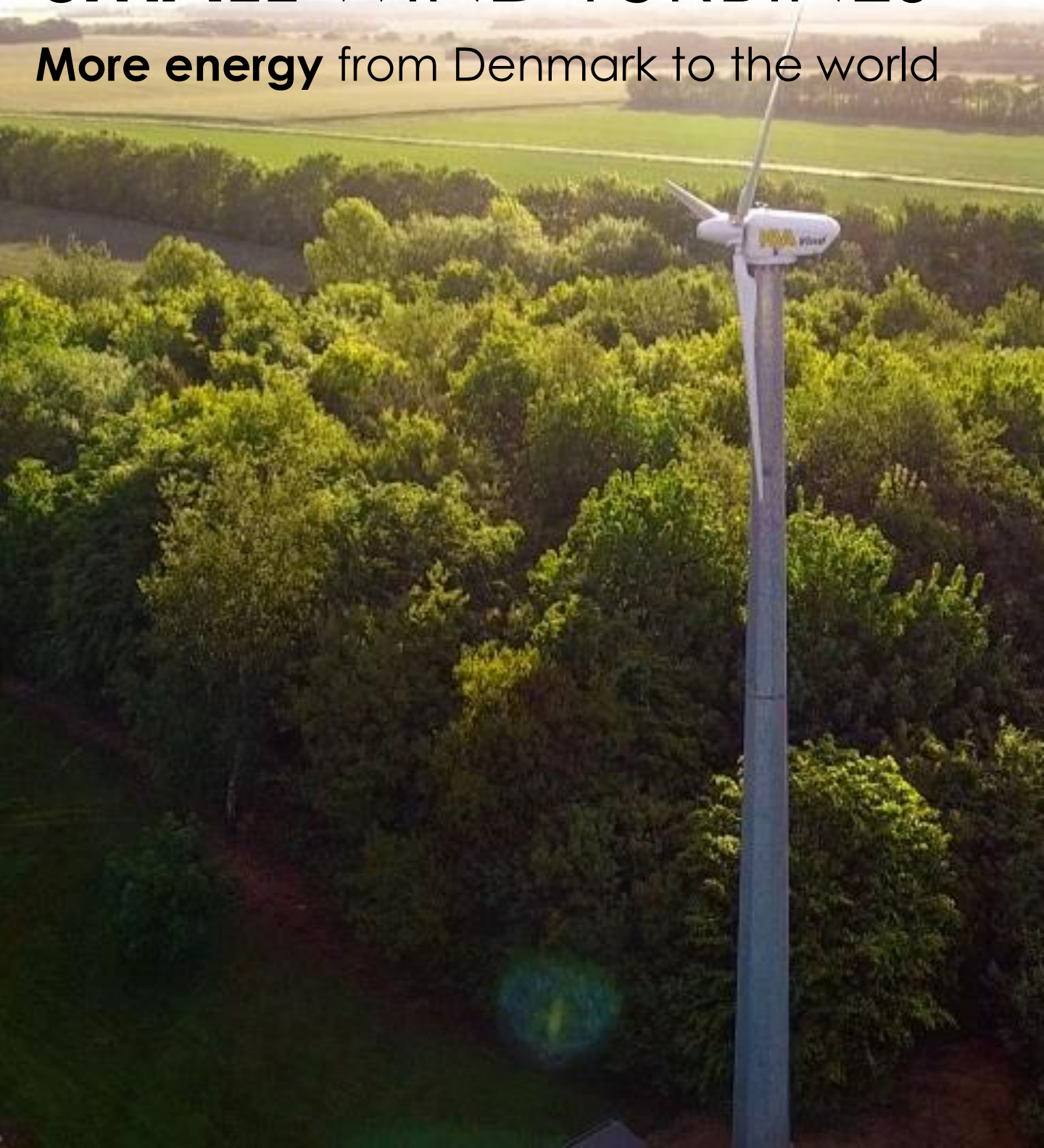
KVA *Wind Int.*

DANISH WIND TURBINE TRADITIONS

Produced
in denmark 

SMALL WIND TURBINES

More energy from Denmark to the world





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For more information or current updates please contact:

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A COMPLETE PRODUCT LINE TO MEET ANY MARKET DEMANDS



KVA WIND 10-15

Thanks to the technical and aerodynamic characteristics which maximize wind harvesting, KVA wind turbines adapt to the broad range of wind conditions, achieving the highest energy production and thus ensuring a faster return on investment.

- High profits for private and business
- Robust and innovative design and aerodynamic
- Maximum efficiency at low wind speed
- Good results of data for NVH (noise, vibration, harshness)
- Low noise
- Designed according to *International Standard, IEC 61400-2*
- Quick and easy installation (2-3 hours)
- Certified power curve in accordance to IEC 61400-12 & 22
- Real-time monitoring system
- Quick service, low maintenance
- Designed lifetime more than 20 years

High quality product

KVA Wind Int. A/S, a Danish manufacturer of small wind turbines, with a certified (by an accredited third party) product performance. This confirms a high product quality and thereby guaranteeing a safe investment for customers.

The power curve and noise emissions of the KVA WIND10-15 wind turbine have been certified according to international standards, IEC61400-12 and IEC61400-11.

Attractive Wind Energy Investment

KVA WIND 10-15 - high functionality

The only wind turbine that can produce up to 38,500 kWh at an average annual wind speed of 5 m/s, ideal performance for an investment guaranteed during the lifetime. Silent, reliable, with the characteristics of a large wind turbine.

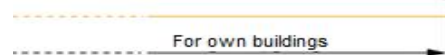
KVA WIND 10-15 can be installed in suburban areas such as farms, shopping malls, campsites, small and medium enterprises.

KVA WIND 10-15 offers high power output even on sites with low wind speeds, thanks to such aerodynamic, mechanical characteristics as active pitch and yaw control. An advanced remote control system guarantees maximum availability and safety.



Certificates for Denmark and EU

- Power curve certificated by TD Engineering according to IEC 61400-12 & 22
- Acoustic emissions certificated by
- **ARBEJDSMILJØEksperten** (most important Certificate for Denmark)
- Danish Wind Certificate, (the most important certificate in EU)



DWEA small wind turbine standard,

Certified



Reference Annual Energy **38,500** kWh

Annual average wind speed of 5 m/s (11mph). Your performance may vary



EGV Energistyrelsens Godkendelsessekretariat for Vindmøller

Produced in denmark 

KVA WIND 10-15

Advanced technology, solid and high quality

TECHNICAL DATA

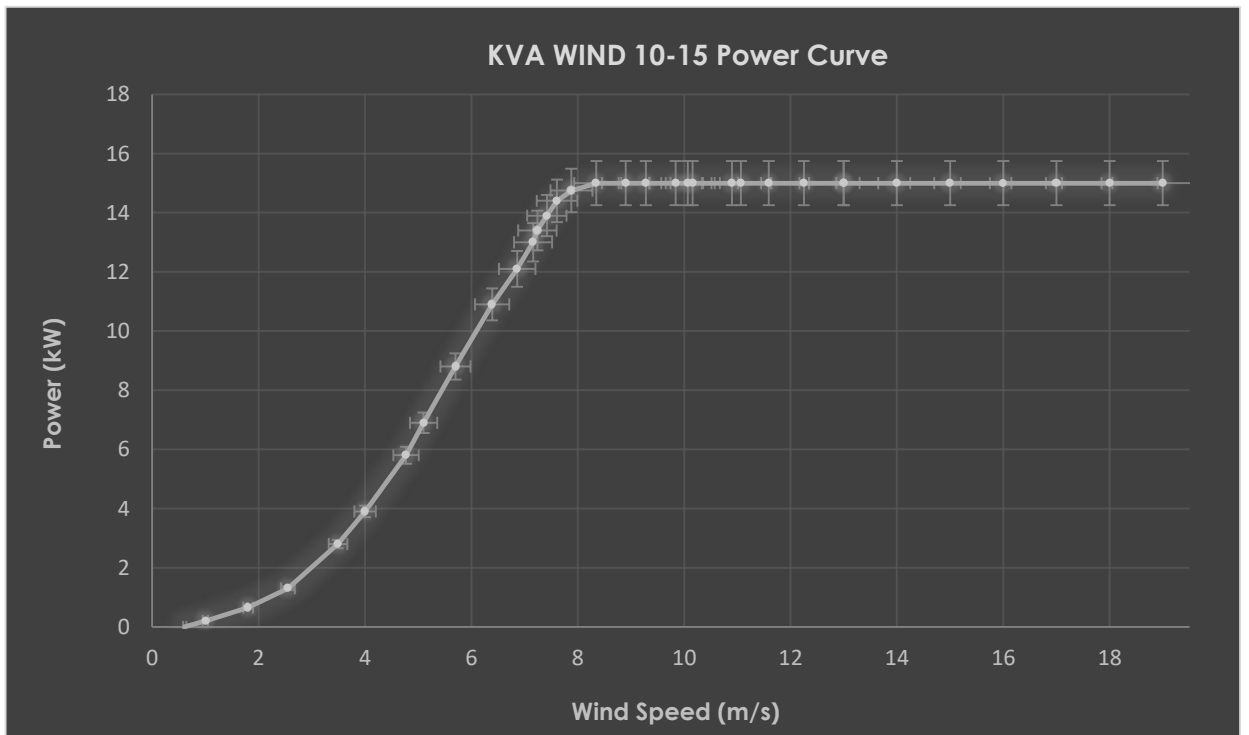
- Small Wind Turbine IEC Class III, average wind speed = 7.5 m/s
- Up to 38,500 kWh/year at 5 m/s
- Rotor diameter: 10.5 m
- Swept Area: 86.5m²
- Hub height: 19.7m
- Cut in speed: 2.5 m/s
- Cut out speed: 25m/s
- Rated speed: 8.5m/s
- Active pitch
- Active yaw
- Synchronous generator with permanent magnets, 18 kW
- Two braking systems, pitch and disc

EXPECTED OUTPUT

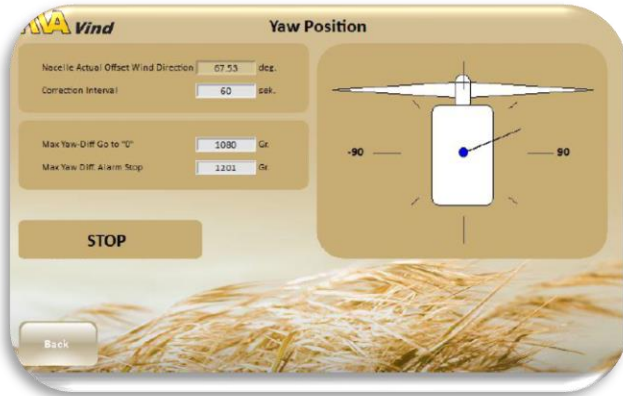
- Weibull factor $k = 2.0$
- Technical availability : 100 %
- Air Density : 1.255 kg/m³
- Average turbulence index : 18 %

Average Annual Speed (m/s)	4	5	6	7
Average Annual Output (kWh)	25.0	37.9	53.8	67.2

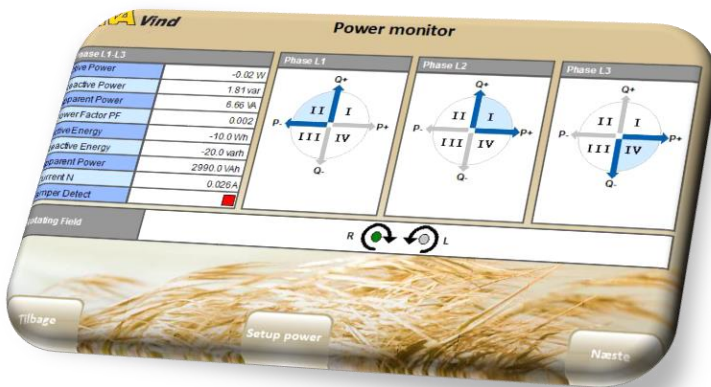
KVA WIND 10-15 : POWER CURVE



KVA WIND 10-15 : Monitoring System



- User access KVA WIND 10-15 from anywhere
- Remotely monitor, control and reconfigure of KVA WIND 10-15 over a secure encrypted connection
- Immediate notification of service technician in case of any alert from the monitoring system



24/7 access to your wind turbine



Live and historical data



Monitor, control and reconfigure



Notifications eliminate down time



- **Most efficient power system for low wind speed areas**
- **Best quality wind turbine according to NVH***

(*noise, vibration and harshness)

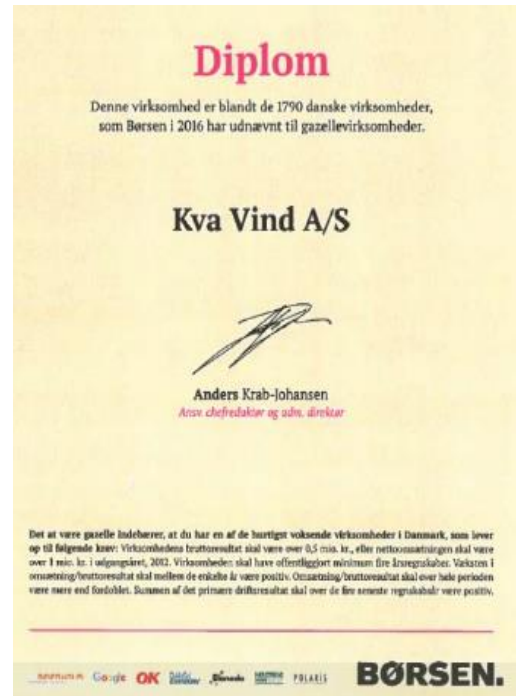
KVA Wind Int.A/S is one of the most experienced manufacturers for small wind turbines in Denmark and your guarantee for a solid product and a good partnership.

Together with our sister companies, KVA Diesel ApS and KVA Service ApS, we represent more than 40 years of experience and have installed more than 400 small wind turbines of different types in Denmark.

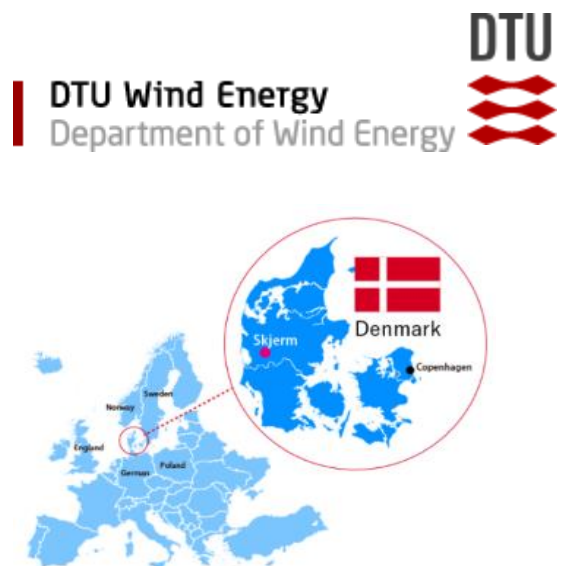
KVA wind turbines run with a minimum of requirements for service year after year.

We are happy to assign references for KVA wind turbines in Denmark.

We have been approved by the Danish Energy Authorities and Danish University of Science and Technology (DTU).



On www.kva-vind.dk you can see how the approximately 300 small wind turbines are installed all over Denmark.





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