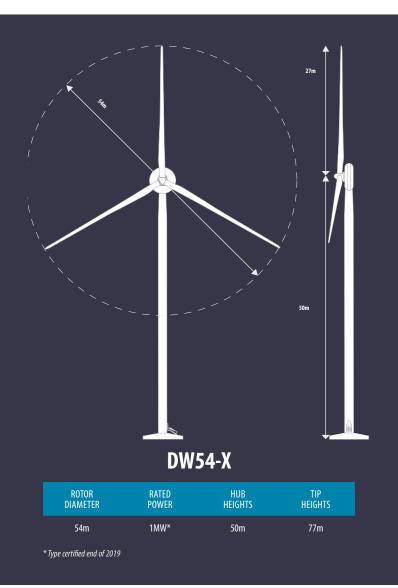


DIRECTWIND turbine platform up to 1MW

EWT DIRECTORIVE MAXIMISING PERFORMANCE AT THE LOWEST COST OF ENERGY

IEC wind class IA – High wind

For wind speeds of 8.5-10 m/s average at hub height



MAXIMISING ELECTRICITY GENERATION

EWT offers an extensive range of highly efficient wind turbines, featuring a wide variety in rated generating capacity of 250kW to 1MW, rotor diameters of 52m to 61m and hub heights of 35m to 75m.

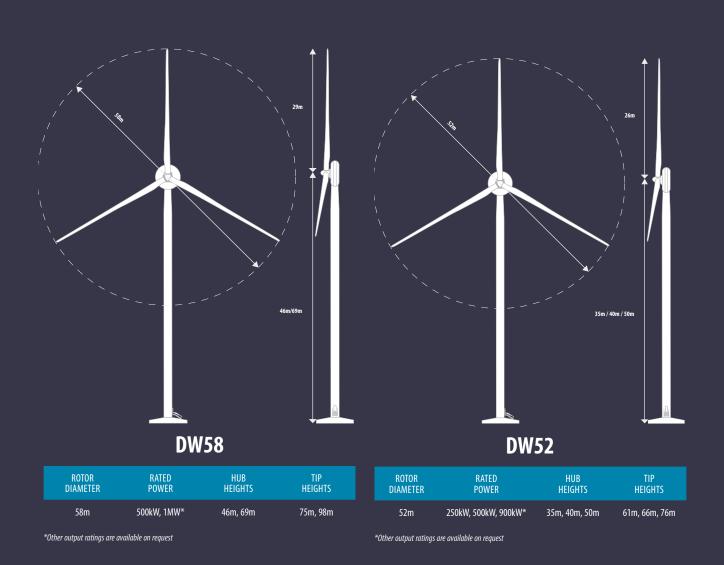
Continually improving performance and availability

EWT's highly qualified engineers are continuously working to optimize components and improve turbine designs. Experienced Operations & Maintenance professionals at the central control room use specialist software to monitor hundreds of operational wind turbines worldwide.

Monitoring and turbine performance analysis take place on a 24/7 basis, which guarantees the earliest possible response to any irregularity. Complementing this are established Service Teams in countries where EWT wind turbines are in operation, in order to ensure a quick response time should on-site support be required.

IEC wind class IIA - Medium wind

For wind speeds of 7.5-8.5 m/s average at hub height



OUTSTANDING SERVICE

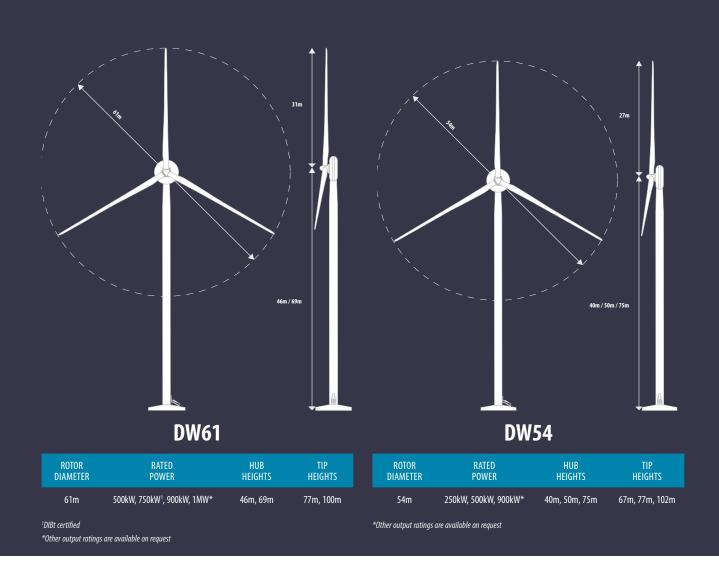
EWT offers comprehensive service and maintenance packages at very competitive prices. Our clients know they can rely on the performance and availability of their wind turbines, due to tailor-made service, bankable contracts and EWT team's 24/7 availability. EWT prides itself on the high renewal rate of the operations & maintenance contracts with clients, largely due to DIRECTWIND turbines' outstanding performance.

EWT TURBINE SUPPORT

- Long-term, highly comprehensive and competitive 0&M package
- ▶ Rapid response no matter how many turbines you own
- Local EWT 0&M teams
- Specialist support as and when required
- > 24/7 remote turbine monitoring and analysis at EWT's control room
- Performance optimization
- Guaranteed availability

IEC wind class IIIA - Low wind

For wind speeds up to 7.5m/s average at hub height



TURBINE OPTIONS

The following options are available:

- Aviation lights
- Shadow flicker prevention
- Bat protection
- Scheduled stop
- Delayed shutdown
- DMS 3P (3rd party SCADA interface)

- Park Controller
- Inter tripping
- Power curtailment
- Export Limitation Scheme
- ► G59/SEL protection relay
- Reactive power control
- Automatic voltage control

- Automatic frequency control
- Low Voltage Ride-through (LVRT)
- High Voltage Ride-through (HVRT)
- Island mode
- Climb assist

- Custom Logo
- Wireless internet 3G/4G/ satellite
- Ice detection and/or prevention system
- Cold climate
- Black painted blades

More energy, less complexity

EWT's extensive product range of 250kW to 1MW DIRECTWIND wind turbines is designed to deliver high yields, reliable performance and a low cost of energy, maximising returns on investment. A best-in-class combination of direct drive technology and advanced control features achieves the highest possible energy yield out of sites with a high, medium or low wind resource, harnessing their full potential.

Every site is different and has its own challenging requirements in terms of planning policy or technical and environmental constraints, such as noise, grid or an extreme climate to operate in. EWT's highly qualified engineers have the expertise to provide a tailor-made solution for any site, addressing the issues and optimising power output. The DIRECTWIND turbines can be installed with a connection to the local grid network, integrated into an existing power system with other sources of energy, or operate as a stand-alone solution. Over the last 10 years, EWT has installed hundreds of wind turbines over three continents, exceeding customers' expectations time and again.

DIRECTWIND technology

The DIRECTWIND wind turbines are fitted with EWT's state-of-the-art direct drive technology. This means that the rotor drives the synchronous generator directly, without the need for a gearbox. Not having a gearbox allows DIRECTWIND turbines to have a very compact nacelle layout, featuring a single main bearing which supports the rotor assembly and generator. This efficient design has been independently certified to IEC 61400. It has achieved a significant reduction in the number of rotating components, and therefore wear and tear on the parts, resulting in lower maintenance requirements, less downtime and lower costs.

The DIRECTWIND turbine is suitable to operate in weak grids and micro grids and can easily be connected to the existing network infrastructure. This allows for:

- Distributed generation; on-site generated electricity, at the point of consumption
- Improvement of micro grids
- Integration of the DIRECTWIND technology with other forms of on-site generation such as diesel and solar, connected to the local substation









DIRECTWIND

BENEFITS AND ADVANTAGES



COMPREHENSIVE SERVICE PACKAGES EFFICIENT DELIVERY AND INSTALLATION

Emergya Wind Technologies (HQ)

Lindeboomseweg 51 3825 AL Amersfoort The Netherlands T +31 (0)33 454 05 20 Email: info@ewtdirectwind.com Website: www.ewtdirectwind.com

More information

For more information about our turbines, services, technology, our offices or other questions please contact us or visit our website www.ewtdirectwind.com