2.5 MW
PMDD WIND TURBINE
INNOVATING FOR
A BRIGHTER FUTURE

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GOLDWIND 2.5MW PMDD
WIND TURBINE KEY FEATURES

Platform Evolution
20 years of operational experience from 21,000+ Permanent Magnet Direct Drive (PMDD) wind turbines.

Expansion of the successful Goldwind 1.5 MW platform with enhanced architectural features.

High Efficiency
Permanent Magnet Synchronous Generator (PMSG) eliminates excitation losses. The absence of gearbox eliminates losses from ancillary systems such as lubricant distribution and thermal management.

High Reliability
The gearless drivetrain design eliminates the possibility of gear failure during the operational life of the turbine. Maintenance-free design of the toothed belt pitch drive system simplifies pitch system maintenance requirements.

Highly Adaptable
Grid Adaptability: Excellent zero, low and high voltage ride through capability and compliant with associated standards across the globe.

Maintenance Adaptability: Dual circuit design of generator and converter enables partial operation when one circuit is compromised.

Environment Adaptability: Flexible operation modes enable adaptation to extreme environmental conditions such as high and low temperature, noise constraints, and challenging wind conditions.

Construction Adaptability: Individual blade assembly to conserve site space constraints.

DYNAMIC POWER CURVE

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>GW 103/2500</th>
<th>GW 108/2500</th>
<th>GW 121/2500</th>
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<tbody>
<tr>
<td>Rated Power</td>
<td>2500 kW</td>
<td>2500 kW</td>
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<td>Wind Class</td>
<td>IEC IB</td>
<td>IEC IIA</td>
<td>IEC IIIB</td>
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<tr>
<td>Cut-in Wind Speed</td>
<td>3 m/s</td>
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<td>Cut-out Wind Speed</td>
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<td>Designed Service Life</td>
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<td>Operating Temperature Range</td>
<td>-30°C to +40°C</td>
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<td>Survival Temperature Range</td>
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<td>Nominated Rotor Diameter</td>
<td>103 m</td>
<td>109 m</td>
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<td>Rotor Swept Area</td>
<td>8,397 m²</td>
<td>9,931 m²</td>
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<td>Generator Type</td>
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<td>Rated Voltage</td>
<td>690 V</td>
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<td>Rated Rotation Speed</td>
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<td>Converter Type</td>
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<td>Brake System</td>
<td>Aerodynamic Brake System</td>
<td>Blade Pitch Triple-Redundant Mechanical Brake System</td>
<td>Mechanical Brake System (for Maintenance)</td>
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<td></td>
<td>Hydraulic Mechanical Brake System (for Maintenance)</td>
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<td>Yaw System</td>
<td>Type/Design</td>
<td>Motor Drive/Four Planetary Stages for Speed Reduction</td>
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<td>Yaw Brake</td>
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