SG 2.1-114
Benchmark in the sector for medium- and low-wind sites
Strong market presence with a significant backlog of orders

SG 2.1-114: maximum efficiency at sites with moderate and low winds

One of the key aspects to Siemens Gamesa’s success is the continuous development of new and advanced products adapted to the business case of every customer. We strive to provide the best technological solutions for each project, while driving down the LCoE.

For this reason, we offer an optimized, streamlined catalog of proven solutions adapted to every type of site and condition, backed by:

- Our reputation as a trusted and stable partner (99 GW installed worldwide).
- A proven track record spanning 40 years that makes Siemens Gamesa a benchmark for wind projects.
- The recognition of the wind power sector.

Siemens Gamesa, your trusted technology partner
A benchmark in its segment

Boasting a 114-meter rotor, various tower options (from 68 to 153 meters) and nominal power of 2.1 MW, the SG 2.1-114 wind turbine(1) is one of the product proposals from the Siemens Gamesa 2.X platform.

This model is a benchmark thanks to its low power density, allowing maximum profitability at sites with moderate and low winds. A significant backlog of orders and a strong market presence bears testament to this, with over 6,400 MW installed worldwide.

It also has optimized solutions for Class S sites, so it can adapt to the environmental conditions in such markets as India, China and Brazil.

Minimum power density, maximum profitability

With a 56-meter blade and aerodynamic profiles developed using state-of-the-art technology, SG 2.1-114 guarantees maximum energy production combined with low noise emission thanks to the DinoTails® Next Generation serrated trailing edges.

Furthermore, by applying comprehensively validated and certified technologies from the Siemens Gamesa 2.X platform, this turbine significantly reduces the Levelized Cost of Energy.

Versatility and extensive experience

More than 57.3 GW installed in the 2.0-2.9 MW segment, with availability levels exceeding 98%, back the Siemens Gamesa 2.X platform, which stands out for its versatility and maximum performance at all locations and in all wind conditions.

Its range of rotors and tower heights (63-153 meters) combined with different environmental options creates an excellent proposal for harvesting maximum energy from the wind with the greatest efficiency.

(1) Model marketed as SG 2.0-114 in certain markets.

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### Technical specifications

<table>
<thead>
<tr>
<th>General details</th>
<th></th>
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<tbody>
<tr>
<td>Rated power</td>
<td>2.1 MW</td>
</tr>
<tr>
<td>Wind class</td>
<td>IEC IIA/IIIA/S</td>
</tr>
<tr>
<td>Control</td>
<td>Pitch and variable speed</td>
</tr>
<tr>
<td>Standard operating temperature</td>
<td>Range from -20ºC to 40ºC (2)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Rotor</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Diameter</td>
<td>114 m</td>
</tr>
<tr>
<td>Swept area</td>
<td>10,207 m²</td>
</tr>
<tr>
<td>Power density</td>
<td>205.74 W/m²</td>
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</table>

<table>
<thead>
<tr>
<th>Blades</th>
<th></th>
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<tbody>
<tr>
<td>Length</td>
<td>56 m</td>
</tr>
<tr>
<td>Airfoils</td>
<td>Siemens Gamesa</td>
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<tr>
<td>Material</td>
<td>Fiberglass reinforced with epoxy or polyester resin</td>
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<table>
<thead>
<tr>
<th>Tower</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>Multiple technologies available</td>
</tr>
<tr>
<td>Height</td>
<td>68, 80, 93, 106, 125, 127, 153 m and site-specific</td>
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</table>

<table>
<thead>
<tr>
<th>Gearbox</th>
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<tbody>
<tr>
<td>Type</td>
<td>3 stages</td>
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</table>

<table>
<thead>
<tr>
<th>Generator</th>
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<tbody>
<tr>
<td>Type</td>
<td>Doubly-fed induction machine</td>
</tr>
<tr>
<td>Voltage</td>
<td>690 V AC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz/60 Hz</td>
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<tr>
<td>Protection class</td>
<td>IP 54</td>
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<tr>
<td>Power factor</td>
<td>0.95 CAP-0.95 IND throughout the power range (3)</td>
</tr>
</tbody>
</table>

(2) Different versions and optional kits are available to adapt machinery to high or low temperatures and saline or dusty environments.
(3) Power factor at generator output terminals, on low voltage side before transformer input terminals.
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