SG 2.6-114
Boosting production at sites with medium and high winds

SIEMENS Gamesa
RENEWABLE ENERGY

Technology with extensive experience and validation

SG 2.6-114: intelligent evolution to boost production in medium and high winds

Siemens Gamesa, your trusted technology partner

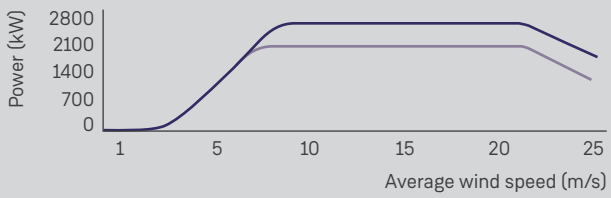
One of the key aspects to Siemens Gamesa's success is the continuous development of new and advanced products adapted to the business case of every customer. We strive to provide the best technological solutions for each project, while driving down the LCoE.

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 (over 117 GW installed worldwide).
- A proven track record spanning more than 40 years that makes Siemens Gamesa a benchmark for wind projects.
- The recognition of the wind power sector.

Nominal power increase

Power curve increase SG 2.6-114 vs. SG 2.1-114



Maximum reliability

The SG 2.6-114 wind turbine is integrated into the Siemens Gamesa 2.X platform, a benchmark in the market thanks to its excellent capacity factor and high profitability. Designed for moderate- and high-wind sites, this model complements the Siemens Gamesa 2.1 MW offer in projects requiring higher nominal power. Boasting a 114-meter rotor, various tower options (from 63 to 125 meters) and increased nominal power of up to 2.625 MW, this turbine guarantees maximum efficiency at a reduced Levelized Cost of Energy.

It is a natural evolution of the SG 2.1-114 model and inherits most of the technologies, components and subsystems while incorporating the necessary modifications to achieve increased power. The main features of the SG 2.6-114 turbine include:

- Pitch and variable speed technology to maximize energy production.
- Siemens Gamesa active yaw system for ensuring optimal adaptation to complex terrain.
- Siemens Gamesa SMP: predictive maintenance system.
- DinoTails® Next Generation serrated trailing edges and Siemens Gamesa NRS® control system to minimize the noise emission levels.
- Siemens Gamesa WindNet® PRO: remote control and monitoring system with Web access.

Higher energy output

By incorporating a 56-meter blade, designed by Siemens Gamesa using cutting-edge technologies and specifically reinforced for sites with moderate and high winds, along with a 2.625 MW generator, we have been able to increase the turbine yield by over 13% and achieve a significant reduction in the Levelized Cost of Energy compared to the SG 2.1-114 model. This makes the SG 2.6-114 turbine one of the most efficient and cost-effective solutions available to our customers.

Versatility and extensive experience

Endorsed by its reliability, with an average fleet availability greater than 98%, and by its extensive experience, Siemens Gamesa 2.X 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.

Technical specifications

General details	
Rated power	2.625 MW [1]
Wind class	IEC IA/IIA/S
Control	Pitch and variable speed
Standard operating temperature	Range from -20ºC to 35ºC [2]

Rotor	
Diameter	114 m
Swept area	10,207 m2
Power density	257.18 W/m^2

Blades	
Length	56 m
Airfoils	Siemens Gamesa
Material	Fiberglass reinforced with epoxy or polyester resin

Tower	
Type	Multiple technologies available
Height	63, 68, 75, 80, 93, 125 m and site-specific

Gearbox	
Type	3 stages

Generator	
Type	Doubly-fed induction machine
Voltage	690 V AC
Frequency	50 Hz/60 Hz
Protection class	IP 54
Power factor	0.95 CAP-0.95 IND throughout the power range [3]

(1) Flexible rating strategy up to 2.9 MW available for the CS variant under specific site conditions.
(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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