



SG 2.6-114

Boosting production at sites with medium and high winds



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:

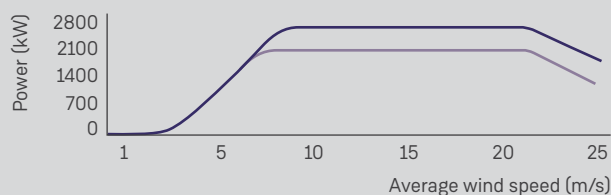
- Our reputation as a trusted and stable partner (+84.5 GW installed worldwide).
- A proven track record spanning over 35 years that makes Siemens Gamesa a benchmark for wind projects.
- The recognition of the wind power sector.

Nominal power increase

SG 2.1-114

SG 2.6-114

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.
- Aerodynamic design and Siemens Gamesa NRS[®] control system that minimizes noise emission.
- 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
Wind class	IEC IA/IIA
Control	Pitch and variable speed
Standard operating temperature	Range from -20°C to 35°C ⁽¹⁾
Rotor	
Diameter	114 m
Swept area	10,207 m ²
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 ⁽²⁾

⁽¹⁾ Different versions and optional kits are available to adapt machinery to high or low temperatures and saline or dusty environments.

⁽²⁾ Power factor at generator output terminals, on low voltage side before transformer input terminals.

Siemens Gamesa Renewable Energy, S.A.
Parque Tecnológico de Bizkaia, Edif. 222
48170, Zamudio, Vizcaya, Spain
Phone: +34 944 03 73 52
sales@siemensgamesacorp.com

Australia

160 Herring Road, Macquarie Park
Sydney, NSW 2113

Austria

Siemensstraße 90
Wien 1210
Phone: +43 51707 0

Belgium

De Gijzeleer Industrial Park
Industriezone Neerdorp
Huizingen, Guido Gezellestraat 123
Vlaams-Brabant, 1654 Beersel
Phone: +32 (2) 536 2111

Brazil

Eldorado Business Tower
Av. das Nações Unidas, 8.501
5º andar
Pinheiros, São Paulo - SP
Phone: +55 (11) 3096-4444

Canada

1577 North Service Road East
Oakville, Ontario, L6H 0H6
Phone: +1 905-465-8000

Chile

Avenida Vitacura 2969
Oficina 1002
Las Condes, Santiago

China

23rd Floor, No. 1 Building
Prosper Center, No. 5 Institution
Guanghua Road, Chaoyang District
Beijing 100020
Phone: +86 (10) 5789 0899

Croatia

Heinzlova 70a
HR-10000 Zagreb
Phone: +385 (1) 6105 494

Denmark

Borupvej 16
7330 Brande
Phone: +45 9942 2222

Egypt

3, Rd 218 Degla
11431 Maadi, Cairo
Phone: +202 25211048

France

40 avenue des Fruitiers
93200 Saint-Denis
Phone: +33 (0)1 85 57 00 00

Germany

Berliner-Tor-Center
Beim Strohhaus 17-31
20097 Hamburg
Phone: +49 (40) 2889 0

Greece

9 Adrianou str
11525 Neo Psychiko
Athens
Phone: +30 2106753300

Hong Kong

35th Floor Central Plaza
18, Harbour Road, Wan Chai
Phone: +852 2593 1140

Hungary

Gizella út 51-57
1143 Budapest
Phone: +36 (1) 471 1410

India

#334, 8th Floor, Block-B
The Futura Tech Park
Sholinganallur
Chennai-119
Phone: +91 44 39242424

Iran

No. 13, Bandar Anzali Street
Ayatollah Taleghani Avenue
15936-43311 Tehran
Phone: +98 (21) 8518 1

Ireland

Innovation House, DCU Alpha
Old Finglas Road, Glasnevin
Dublin 11

Italy

Via Vipiteno 4
20128 Milan
Phone: +39 022 431

Japan

Gate City Osaki West Tower
1-11-1 Osaki, Shinagawa-ku
Tokyo, 141-0032
Phone: +81 (3) 3493-6378

Korea

Seoul Square 12th Floor, 416
Hangang-daero, Jung-gu
Seoul 04637
Phone: +82 (2) 6270 4800

Mexico

Paseo de la Reforma nº 505, piso 37
Torre Mayor, Col. Cuauhtémoc
06500 Mexico City
Phone: +52 55 50179700

Morocco

Anfa Place Blvd. de la Corniche
Centre d'Affaires "Est", RDC
20200 Casablanca
Phone: +212 5 22 67 68 01

Netherlands

Prinses Beatrixlaan 800
Zuid-Holland, 2595 BN Den Haag
Phone: +31 (70) 333 2712

Norway

Østre Aker vei 88
0596 Oslo

Philippines

22nd Floor, Tower 1
The Enterprise Center I
6766 Ayala Avenue cor.
Paseo de Roxas, Makati City 1200
Phone: +63 2 729 7221

Poland

ul. Zupnicza 11, Mazowieckie
03-821 Warsaw
Phone: +48 (22) 870 9000

Singapore

60 MacPherson Road
The Siemens Center
Singapore 348615
Phone: +65 6490 6004

South Africa

Siemens Park, Halfway House
300 Janadel Avenue
Midrand 1685
Phone: +27 (11) 652 2148

Sri Lanka

No. 51/1, Colombo Road
Kurana, Katunayake
Gampaha, Western Province
Phone: +94 312235890

Sweden

Johanneslundsvägen 12-14
SE-194 87 Upplands Väsby
Phone: +46 (8) 728 1000

Thailand

98 North Sathom Road
37/F Sathom Square
Silom, Bangkok, 10500
Phone: +66 2 105 6300

Turkey

Esentepe mahallesi, Kartal
Yakacik Caddesi No 111
34870 Istanbul
Phone: +90 (216) 459 2000

United Kingdom

Faraday House
Sir William Siemens Square
Frimley, Camberley GU16 8QD

USA

3500 Quadrangle Boulevard
Quad 14, Orlando, FL 32817
Phone: +1 407 736-2000

Vietnam

16th floor, Saigon Center
29 Le Duan st., Dist. 1, Ho Chi Minh
Phone: +84 28 35207713

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