



Siemens Gamesa 4.X Modularity and flexibility



Advanced solutions in their segment for efficiency and reduced LCoE

Continuous improvement with enhanced control system and blade aerodynamics

Siemens
Gamesa, your
technology
partner

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

For this reason, we offer a catalog of solutions adapted to every type of site and condition, backed by:

- Our reputation as a stable partner (over 138 GW installed worldwide).
- A track record spanning more than 40 years.
- The recognition of the wind power sector.

Two turbine models with flexible power rating to configure uniquely tailored solutions that meet site requirements

Siemens Gamesa 4.X

Consisting of the SG 5.0-132 and SG 5.0-145 wind turbines, two solutions in the market for sites with medium and high winds, Siemens Gamesa is committed to create value for our customers through the continuous development of technologies targeting LCoE reduction.

With our control system, enhanced blade aerodynamics and structural modularity, the two models offer our customers higher flexibility to adapt to sites with a wide range of wind conditions and logistics constraints.

Siemens Gamesa technology

Siemens Gamesa 4.X integrates geared technology concepts with extensive track record in the market, such as the combination of a three-stage gearbox (two planetary and one parallel) and a doubly-fed induction generator.

In addition to this, the inclusion of an optional premium converter allows us to comply with the demanding grid connection requirements.

The new 64.5- and 71-meter blades, made of fiberglass reinforced with epoxy resin and pultruded carbon technology, integrate innovative aerodynamics and the DinoTails® technology, which guarantee the best balance between high energy production and reduced noise emission levels.

Enhanced efficiency

With respect to the previous generation solutions, Siemens Gamesa 4.X introduces a control system, which optimizes the efficiency of the wind turbines and their applicability in a wide range of sites.

It also offers flexible power rating, depending on the noise requirements, temperature and electrical properties of the project. With over 24% increase in AEP over previous solutions from the Siemens Gamesa 3.X platform.

Technical specifications

	SG 5.0-132	SG 5.0-145
General details		
Rated power	5.0 MW	
IEC class	IA	IIB
Flexible power rating	4.0-5.0 MW	4.0-5.2 MW
Control	Pitch and variable speed	
Standard operating temperature	Range from -20°C to 45°C (with de-rating) ⁽¹⁾	
Rotor		
Diameter	132 m	145 m
Swept area	13,685 m ²	16,513 m ²
Blades		
Length	64.5 m	71 m
Airfoils	Siemens Gamesa	
Material	Fiberglass reinforced with epoxy resin	
Tower		
Type	Multiple technologies available	
Height	84 m and site-specific	91, 102.5, 127.5 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	0.9 CAP-0.9 IND throughout the power range ⁽²⁾	



⁽¹⁾ Different versions and optional kits are available to adapt machinery to cold climate, saline or dusty environments.

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

Spain

P. Tecnológico de Bizkaia, edif. 222
48170 Zamudio, Vizcaya

Calle Ramírez de Arellano, 37
28043 Madrid

Avda. Ciudad de la Innovación, 9-11
31621 Sarriguren, Navarra

Australia

Level 3, Botanicca 3
570 Swan Street, Burnley
Melbourne, 3121

Finland

Tarvonsalmenkatu 19
FI-02600
Espoo

Italy

Centro Direzionale Argonauta
Via Ostiense 131/L
Corpo C1 9° piano
00154 Rome

Poland

Zupnicza street 11
3rd Floor
03-821 Warsaw

Austria

Siemensstrasse 90
Vienna 1210

France

Immeuble le Colisée
Bâtiment A - 2 ème étage
10 avenue de l'Arche
92419 Courbevoie

Via Vipiteno 4
20128 Milan

Serbia

Tadije Sondermajera 11
(zgrada/building AFI, 8th floor)
11070 Novi Beograd
Beograd

Brazil

Avenida Rebouças, 3970 - 5º andar
Pinheiros 05.402-918, São Paulo

97 allée Alexandre Borodine
Cedre 3
69800 Saint Priest

Japan

14F Tokyo Shiodome Building
1-9-1, Higashi Shimbashi
Minato-ku, Tokyo

Singapore

60 MacPherson Road
Singapore, 348615

Canada

1577 North Service Road East
Oakville, Ontario L6H 0H6

Germany

Beim Strohhaus 17-31
20097 Hamburg

Mexico

Paseo de la Reforma 505
Torre Mayor, 37th Floor
Col. Cuauhtémoc
Del. Cuauhtémoc
06500 Mexico City

South Africa

Siemens Park
300 Janadel Avenue
Halfway House
Midrand 1685

Chile

Edificio Territoria El Bosque
Avenida Apoquindo 2827, Piso 19
Las Condes, Santiago de Chile

Mary-Sommerville-Straße 14
28359 Bremen

Morocco

Anfa Place Blvd. de la Corniche
Centre d'Affaires "Est", RDC
20200 Casablanca

South Korea

Seoul Square 5th Floor 416
Hangang-daero
Jung-gu, Seoul 04637

China

Siemens Center Beijing, 2nd Floor
No.7 South Wangjing Zhonghuan
Road, Chaoyang District
Beijing 100102

Greece

28 Vouliagmenis Ave.
Elliniko
Athens, 16777

Netherlands

Prinses Beatrixlaan 800
2595 BN Den Haag

Sweden

Evenemangsgatan 21
169 79 Solna

8-10F, (Building N3), No. 2, Lane 131
Qiantan Avenue, Pudong New Area
200126 Shanghai

India

No. 489, GNT Road
Thandalkazhani Village
Vadagarai PO
Redhills
Chennai 600052

Norway

Østre Aker vei 88
NO-0596 Oslo

United Kingdom

Arena Business Centre
Watchmoor Park
Riverside Way
Camberley, GU15 3YL

Croatia

Slavonska avenija 1a
(zgrada/building C, 1st floor)
HR-10000 Zagreb

Indonesia

Menara Karya, 28th floor
JL. HR. Rasuna Said Blok X-5
Kav. 1-2, Jakarta

Pakistan

No 148/49, 1st F
Luxus Mall, Gulberg Green
Islamabad

United States

11950 Corporate Boulevard
Orlando, FL 32826

Denmark

Borupvej 16, 7330 Brande

Ireland

Innovation House
DCU Alpha
Old Finglas Road 11
Glasnevin
Dublin 11

Philippines

10th Floor
8767 Paseo de Roxas, Makati

Regus, Eco Tower
Bonifacio City, Manila

Vietnam

14th Floor, Saigon Centre
65 Le Loi street
Ben Nghe ward District 1
Ho Chi Minh City

The present document, its content, its annexes and/or amendments has been drawn up by Siemens Gamesa Renewable Energy, S.A.U. for information purposes only and could be modified without prior notice. The information given only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract. All the content of the document is protected by intellectual and industrial property rights owned by Siemens Gamesa Renewable Energy, S.A.U. The addressee shall not reproduce any of the information, neither totally nor partially.

02/2024

comercial_consultas@siemensgamesa.com
www.siemensgamesa.com