



Siemens Gamesa 5.X Enhanced performance



Flexible power output and two rotor sizes to enhance performance at any sites

Siemens Gamesa turbines created to deliver a competitive value proposition for our customers

Siemens
Gamesa, your
technology
partner

At Siemens Gamesa, we strive to anticipate opportunities in an increasingly demanding market. Our wind technology expertise, backed by more than 40 years of experience and over 138 GW installed throughout the world, equips us with the right tools for providing the suitable technological solutions for each project delivering a competitive LCoE.

Our team is passionate about what we do, and we are committed to delivering those products and services that best meet our customer's project needs.

Siemens Gamesa 5.X is a generation of turbines that offers:

- Flexible power output and two rotor sizes for a competitive LCoE.
- Site adaptability to configure the suitable solution for each project.
- Versatility, a highly flexible design for logistics, construction and service.



Siemens Gamesa technology

The Siemens Gamesa 5.X onshore platform has its roots in Siemens Gamesa geared technology, in which we have extensive knowledge and expertise. This include a doubly-fed generator and partial converter combination and a compact drive train design with a three-stage gearbox. The result is a wind turbine designed to enhance performance and LCoE.

Siemens Gamesa 5.X goes one step further to become a platform that combines a flexible power rating from 5.6 MW to 7.0 MW with two rotors of 155 and 170 meters, to obtain high performance in all wind conditions.

SG 6.6-155, SG 6.6-170 and SG 7.0-170 turbines offer greater AEP per wind turbine and improved project CAPEX. This is due to the versatility created by a modular, flexible design that eases logistics, construction, and O&M. As a result, OPEX is also reduced, which results in a lower Cost of Energy for the project.

Unique, tailored solutions

Siemens Gamesa 5.X considers profitability to be a key factor in generating value for our customers.

Contributing factors to profitability include:

- Configurable, flexible, personalized power modes fully tailored to the needs of each site.
- An extensive catalog of towers with multiple available technologies and the additional capability to create specific project designs.
- Control strategies that enable intelligent load reduction and a greater applicability the Siemens Gamesa 5.X platform in different wind conditions.

- A modular, enhanced structure for local transport and construction conditions.
- A maintainability-oriented design with advanced diagnostics and remote operation solutions, as well as the possibility of replacing large turbine components without requiring a main crane.
- Optional product solutions to cover all types of market requirements.

Technical specifications



	SG 6.6-155	SG 6.6-170	SG 7.0-170
General details			
Rated power	6.6 MW		7.0 MW
IEC class	IIB (25 years lifetime) IIA (20 years lifetime) IA (25 years lifetime)	S/IIIB (25 years lifetime) IIIA (20 years lifetime)	IIA (25 years lifetime)
Flexible power rating	5.6 MW-6.6 MW	6.0 MW-6.6 MW	Up to 7.0 MW
Control	Pitch and variable speed		
Rotor			
Diameter	155 m	170 m	
Swept area	18,869 m ²	22,697 m ²	
Tower			
Height	90, 102.5, 107.5, 122.5, 165 and site-specific	100, 110.5, 115, 135, 145, 150, 155, 165, 185 and site-specific	115, 135, 155, 165, 185 m and site-specific
Technology			
Type	Geared		
First prototype			
Date	2021		TBD

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

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comercial_consultas@siemensgamesa.com
www.siemensgamesa.com