



SG 7.0-170
Designed for performance,
engineered for quality



Crafted with your project needs in mind

Advanced design, robust manufacturing, stringent quality control

Siemens
Gamesa, your
technology
partner

At Siemens Gamesa, we anticipate opportunities in an increasingly demanding market.

With over 40 years of expertise in wind technology, 148 GW installed and over 92 GW under maintenance worldwide, Siemens Gamesa has the experience and tools to deliver tailored technological solutions that support long-term profitability throughout the entire lifecycle of your project. Our team is passionate about what we do and committed to delivering products and services that meet your project needs.

Beyond performance and reliability, Siemens Gamesa places sustainability at the heart of every solution. With up to 85% recyclability, a low carbon footprint of approximately 6.2 g CO₂e/kWh, and rapid energy payback, our company provides responsible, transparent, and future-oriented renewable technologies that contribute to a cleaner global energy system.

Siemens Gamesa technology

SG 7.0-170. Designed for performance, engineered for quality:

- Built on extensive field experience.
- Driven by engineering discipline, validated by experts.
- Customer-centric design philosophy.
- Future-ready and cost-efficient.

This wind turbine builds on Siemens Gamesa's geared technology, where we have extensive knowledge and deep expertise. It incorporates a doubly-fed induction generator and a partial converter, combined with a compact drivetrain and a three-stage gearbox, resulting in a wind turbine designed to maximize performance and profitability. SG 7.0-170 features a flexible power rating up to 7.0 MW and a 170-meter rotor, delivering outstanding efficiency across a wide range of wind conditions.

Deep operational insight from our installed fleet has been embedded not only into the turbine's design but also in our manufacturing processes and supplier quality management, creating a solid foundation for product reliability and performance. Our development process is rigorous and structured, featuring in-depth technical reviews by industry experts and a comprehensive validation program to ensure the turbine consistently meets the highest standards of quality and performance. By integrating best practices and technical solutions from both our onshore and offshore units, we foster cross-domain learning, resulting in a more robust, efficient, and future-proof turbine design.

The SG 7.0-170 improves project's profitability through optimized transportability, streamlined installation, and long-term serviceability.

Tailored solutions for maximum site performance

Profitability is key to generating value for our customers. Different product configurations support a wide range of site conditions and market requirements, all engineered with your project's unique needs in mind.

Key factors driving SG 7.0-170's profitability include:

- Configurable, flexible, and personalized power modes fully tailored to the needs of each site.
- An extensive catalog of towers with multiple technologies and the capability to create specific project designs.
- Intelligent load reduction control strategies, enhancing applicability across diverse wind conditions.
- A modular, enhanced structure designed for local transport and construction conditions.

- Maintainability-focused design with advanced diagnostics, remote operation solutions, and the ability to replace large turbine components without a main crane.
- Different product options & features covering a wide range of market and regulatory requirements.

Operation and Maintenance

In close partnership with our customers, Siemens Gamesa delivers tailored maintenance plans, long-term service agreements, remote diagnostics, energy optimization, and expert troubleshooting.

Our comprehensive approach ensures maximum reliability, sustained value, and optimal performance throughout the entire lifecycle of each wind farm.

More robust, efficient, future-proof design, meeting the highest standards of quality and performance

Technical specifications

SG 7.0-170	
General details	
Rated power	7.0 MW
IEC class	IIA/S (25 years lifetime)
Flexible power rating	Up to 7.0 MW
Control	Pitch and variable speed
Technology	Geared + DFIG
Rotor	
Diameter	170 m
Swept area	22,697 m ²
Tower	
Height	110.5, 115, 135, 155, 165, 185 m and site-specific
Gearbox	
Type	3 stages
Generator	
Type	Doubly-fed induction machine



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