



SG 3.2-129
Built on a foundation of continuous
innovation



Increased capacity factor for greater returns

SG 3.2-129: a turbine with a certified 25-year design lifetime built for the needs of the American market

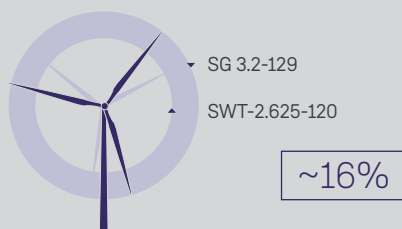
Siemens
Gamesa, your
technology
partner

Siemens Gamesa, committed to the energy transition and sustainable performance, drives the development and continuous improvement of advanced products specifically designed to meet the needs of every customer. Our mission is to offer cutting-edge technological solutions that optimize the LCoE, ensuring sustainable returns throughout the entire lifecycle of the project.

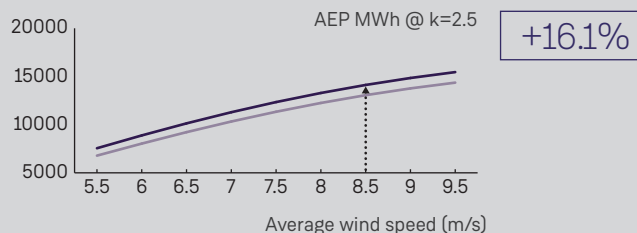
For this reason, we offer a catalog of solutions adapted to every type of site and condition, backed by:

- Our reputation as a stable partner (nearly 146 GW installed and over 91 GW maintained all over the world).
- A track record spanning more than 40 years.
- The recognition of the wind power sector.

Swept area increase



AEP increase SG 3.2-129 vs. SWT-2.625-120



The SG 3.2-129 wind turbine for medium to low-wind sites

The SG 3.2-129 wind turbine is the Siemens Gamesa onshore turbine developed to meet the medium to low-wind site and market conditions of the American market. The turbine is designed based on the foundation of the 2.3 MW geared product series, one of the most robust and successful turbine lines in the market, with over half of the 11,319* units installed globally, installed in North America (8,117 units). The product configuration maintains a similar design, utilizing components from its predecessor, the SWT-2.625-120.

To deliver the lowest Cost of Energy and maximize performance across various sites in the U.S., the SG 3.2-129 is designed with the higher capacity factor our customers demand. This improved model demonstrates our ability to offer flexible solutions for every context while delivering a certified 25-year design lifetime, standard.

Siemens Gamesa technology

The experience acquired through our products, specifically in the optimization of design, prototyping, validation and industrialization processes, along with enhanced design tools such as FEA, thermal modeling and grid analysis has been a key factor in the development of the SG 3.2-129 wind turbine.

- Siemens Gamesa has incorporated technologies into this wind turbine, boosting capacity and simplifying maintenance.
- Aeroelastic tailored blades with 129-m rotor diameter.
- IntegralBlade® technology, DinoTails® Next Generation, Vortex Generators and cross-section (airfoil) designs.
- Adaptive yaw system for optimized performance.
- Gearbox with two planetary stages and one helical for increased capacity.
- Efficient direct cooling system.

* Figures as of CY25Q1.

Technical specifications

General details	
Rated power	3.2 MW
IEC class	S
Control	Pitch and variable speed
Standard operating temperature	Range from -20°C to 45°C ⁽¹⁾
Technology	Geared + Full Converter
Rotor	
Diameter	129 m
Swept area	13,070 m ²
Power density	244.8 W/m ²
Blades	
Length	63.5 m
Airfoils	Siemens Gamesa
Material	Fiberglass reinforced with epoxy resin
Tower	
Type	Tubular steel tower
Height	87 m, 119m and site-specific
Gearbox	
Type	3 stages
Generator	
Type	Full scale converter
Voltage	690 V AC
Frequency	60 Hz
Protection class	IP 54
Power factor	0.92 CAP-0.92 IND at nominal balanced voltage ⁽²⁾

⁽¹⁾ Different versions and optional kits are available to adapt machinery to high or low temperatures and saline (C4) or dusty environments. Derating may apply under certain siting conditions above 20°C.

⁽²⁾ Power factor at generator output terminals on lower side of MV transformer. Power factor of 0.9 CAP -0.9 IND for 3.0 MW and below.

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