SG 3.4-132
The 3 MW solution for medium wind sites

SIEMENS Gamesa
RENEWABLE ENERGY

Enhanced LCoE and experience in the 3 MW segment

SG 3.4-132: a wind turbine to ensure enhanced performance with high levels of reliability

Siemens Gamesa, your technology partner

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

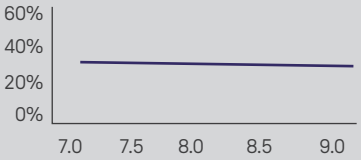
With 46 years of expertise in wind technology, 153.5 GW installed and almost 83 GW under maintenance worldwide, Siemens Gamesa has the experience and tools to deliver tailored technological solutions that support long-term profitability throughout the entire lifecycle of your project. Our team is passionate 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 CO_2e/kWh, and rapid energy payback, our company provides responsible, transparent, and future-oriented renewable technologies that contribute to a cleaner global energy system.

Swept area increase

+34%

AEP increase SG 3.4-132 vs. SG 2.6-114



+30%

Enhanced LCoE and experience in the 3 MW segment

The SG 3.4-132 wind turbine is integrated in the portfolio of Siemens Gamesa with a clear objective: to maximize production on heavily constrained sites where our customers require solutions with nominal powers equal or higher than 3 MW with an optimum LCoE.

This multimegawatt turbine is a natural evolution of the Siemens Gamesa 2.X product series, one of the most successful in the market, backed by more than 65 GW installed in the 2.0-2.9 MW segment. Thanks to the operative experience accumulated over 40 years in the wind energy market, this solution ensures enhanced performance with high levels of reliability. As a result, the SG 3.4-132 achieved more than 7 GW installed and over 7 GW in firm orders worldwide since 2018, with a performance reflecting the likelihood of our customers to choose this product.

An efficient solution primarily addressing French and Polish projects, but potentially available also in other markets

Beyond the traditional off-the-shelf approach, which results in products that are in many cases sub-optimal at sites, the SG 3.4-132 is able to deliver a flexible power rating from 3.0 to 3.65 MW, a uniquely tailored solution that is perfect for our customers' specific needs. This makes it an efficient and cost-effective solution for a wide range of projects. This model also has an extensive portfolio of towers with heights ranging from 84 to 134 meters, which enables it to comply with the different maximum blade tip height restrictions in the market.

DinoTails® Next Generation: higher energy yield at low noise emission level

With a 64.5-meter fiberglass blade, the SG 3.4-132 model guarantees both high energy production and low noise emission levels thanks to the DinoTails® Next Generation serrated trailing edges which limit the sound power level to a maximum of 104 decibels. Siemens Gamesa incorporates geared technology into this model, such as the combination of a three-stage gearbox and a doubly-fed induction generator.

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.

Technical specifications

General details	
Rated power	3.465 MW
Wind class	IEC IIA
Flexible power rating	3.0-3.65 MW
Control	Pitch and variable speed
Noise level [1]	104.0 dBA
Standard operating temperature	Range from -20ºC to 30ºC [2]
Technology	Geared + DFIG
Rotor	
Diameter	132 m
Swept area	13,685 m^2
Power density	253.20 W/m^2
Blades	
Length	64.5 m
Airfoils	Siemens Gamesa
Material	Fiberglass reinforced with epoxy or polyester resin
Tower	
Type	Multiple technologies available
Height	84, 97, 101.5, 114, 134 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	0.925 CAP-0.925 IND throughout the power range [3]

[1] Including DinoTails® Next Generation.
[2] Different versions and optional kits are available to adapt machinery to high or low temperatures and saline or dusty environments.
[3] Power factor at generator output terminals, on low voltage side before transformer input terminals.

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