



Tailored Onshore Aftermarket solutions for Senvion fleet



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Unleashing the full potential of your wind business starts with a trusted partner

Siemens Gamesa, your technology partner

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

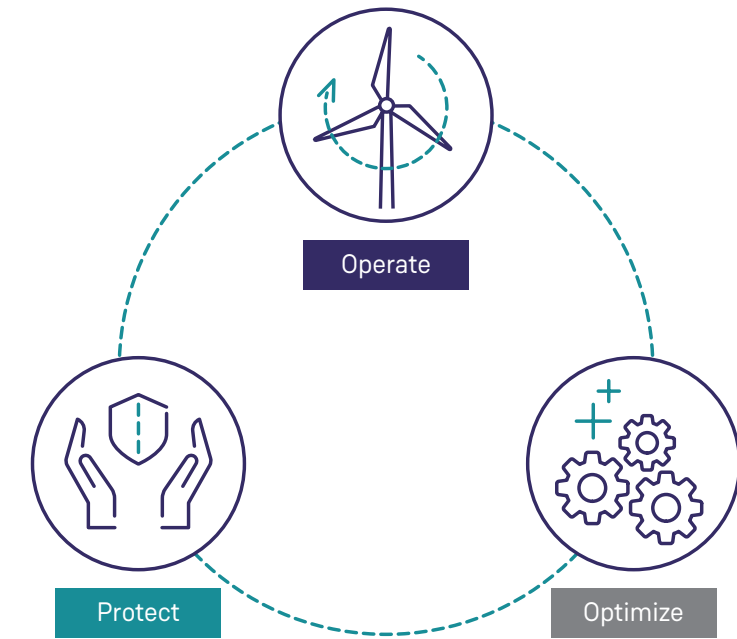
With over 40 years of expertise in wind technology, 148 GW installed and over 92 GW under maintenance worldwide, Siemens Gamesa has the experience and tools to deliver tailored technological solutions that support long-term profitability throughout the entire lifecycle of your project. Our team is passionate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

Ready to elevate the performance of your Senvion fleet?

Siemens Gamesa Aftermarket approach: Built on three strategic pillars

Built around three strategic pillars—**Operate, Protect and Optimize**—our Aftermarket offering is designed to support the performance, resilience, and evolution of your Siemens Gamesa fleet at every stage of its lifecycle, helping your assets deliver higher output and revenues, secure full cost control and mitigate risk.



- Blade Integrity Management**
 - Inspections and data provision
 - Repairs and maintenance
- Knowledge & Guidance**
 - VBAI - Visual Based Asset Integrity
 - Troubleshooting Support

- EnergyUp - Getting more energy from your assets**
 - Aerodynamic upgrades
 - Cut Out
 - Nominal Range
 - Partial Range
 - Full Power Curve

- Lifecycle Management**
 - Life Extension Site Fatigue Loads Assessment Report
 - Life Extension Maintenance Strategy Report

- On Demand Repairs**
 - Major components
 - Minor components
 - Uptower, on-site and repair shop repairs

- Data Access & Management**
 - Communication Manager

- Spare Parts**
 - New
 - Refurbished
 - Spare parts framework agreements

- Power & Grid Management**
 - Production forecasting

- Asset & Environment Protection**
 - Cold climate solutions
 - PowerEdge™ Care
 - Noise reduction solutions
- Predictive Maintenance**
 - Condition Monitoring Blade Bearing
 - Vibration Diagnostics

- ICS Update & Upgrade**
 - ICS Software update
- Asset & Environment Protection**
 - Safety and protection systems
 - Smoke and Heat Detection Systems

Siemens Gamesa - Operate Maximize availability & day-to-day performance

The Siemens Gamesa - **Operate** pillar ensures your wind turbines deliver reliable, high-performance output from day one—and for years to come. With real-time insights, rapid access to critical components, and intelligent tools, we keep your operations running smoothly.

- Spares and On Demand Repairs:** Fast access to OEM-quality parts and repair capabilities to reduce downtime and extend component lifespan.
- Operational Monitoring and Control:** 24/7 fleet supervision, SCADA systems, and expert diagnostics to ensure turbine health and early fault detection.
- Power and Grid Management:** Solutions to meet evolving grid requirements and maximize energy delivery.

Siemens Gamesa - Protect Safeguard assets, value and revenue

The Siemens Gamesa - **Protect** pillar is dedicated to mitigating risk and safeguarding the long-term value of your wind assets. From physical infrastructure and cybersecurity to environmental protection and mechanical integrity, our solutions ensure your turbines operate safely and reliably in all conditions.

- Asset and Environment Protection:** Comprehensive protection solutions that safeguard wind assets from intrusions, fire, extreme weather, lightning, wildlife impact, mechanical wear—while minimizing acoustic impact and ensuring safety, regulatory compliance, and environmental responsibility.
- ICS Update and Upgrade:** Keep your SCADA up to date with the latest functionalities and compatibility features.
- Predictive Maintenance:** Condition-monitoring tools that detect issues early and prevent failures before they occur.

Siemens Gamesa - Optimize Unlock higher performance and future readiness

The Siemens Gamesa - **Optimize** pillar is designed to unlock the full potential of your fleet—boosting performance, extending asset life, and maximizing return on investment. From intelligent insights to structural upgrades, our evolving solutions align your needs and support long-term business success.

- Energy Optimization:** Performance upgrades and control strategies to increase energy capture and adapt to site-specific conditions.
- Lifecycle Management:** Asset strategies and upgrades that extend turbine lifespan, improve availability, and prepare your fleet for new challenges.
- Major Component Management:** Blade Integrity Management Advanced inspection and repair techniques that maintain aerodynamic performance and structural reliability over time.
- Knowledge and Guidance:** Expert support, fleet assessments, and decision-making tools based on real-world operational data and best practices.

	MM70	MM82	MM92	MM100	2.3M130	3.0M104	3.0M122	3.2M114	3.2M122	3.4M104	3.4M114	3.4M122	3.4M140	3.6M114	3.6M140	3.7M144	4.2M140	6.2M126	6.2M152
On Demand Repairs																			
Major Component Repair	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Minor Component Repair	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Uptower Repair Services Gearbox	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Spares	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Operational Monitoring & Control																			
24/7 Alarm Response	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Power & Grid Management																			
Weather and Energy Forecasting	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Asset and Environment Protection																			
Asset Protection Kits - Smoke Detection System							●	●	●	●	●	●	●	●	●	●			
Cold Climate: Operation with Ice		●	●	●		●	●	●	●	●	●	●	●	●	●			●	●
Cold Climate: Rotor Blade Ice Detection		●	●	●			●	●	●	●	●	●	●	●	●				
Converter Cabinet Safety Guards		●	●	●															
Converter Door							●	●	●	●	●	●	●	●	●	●			
Noise Reduction: DinoTails and Serrations		●	●	●				●	●	●	●	●	●	●	●				
PowerEdge™ Care	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
ICS Update & Upgrade																			
ICS Software Update	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Predictive Maintenance																			
Condition Monitoring Blade Bearing		●	●				●	●	●	●	●	●	●	●	●	●			
Vibration Diagnostics	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Energy Optimization - EnergyUp																			
EnergyUp Full Power Curve; Advanced		●	●	●															
EnergyUp Full Power Curve; Basic		●	●	●		●													
EnergyUp Partial Range		●	●	●				●	●	●	●	●			●				
EnergyUp Full Power Curve		●	●	●		●													
Lifecycle Management																			
Life Extension		●	●	●															
Major Component Management																			
Blade Integrity Management	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
Knowledge and Guidance																			
Troubleshooting Support	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
VBAI Visual Based Asset Integrity	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●

*The applicability of the solutions presented depends on the specific characteristics of each turbine and site. Please contact your Siemens Gamesa representative for more details.

Partner with Siemens Gamesa Aftermarket to protect your investment and drive wind energy success well into the future

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