



Tailored Onshore Aftermarket solutions for Gamesa fleet



Tailored Onshore Aftermarket solutions for your Gamesa fleet

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.

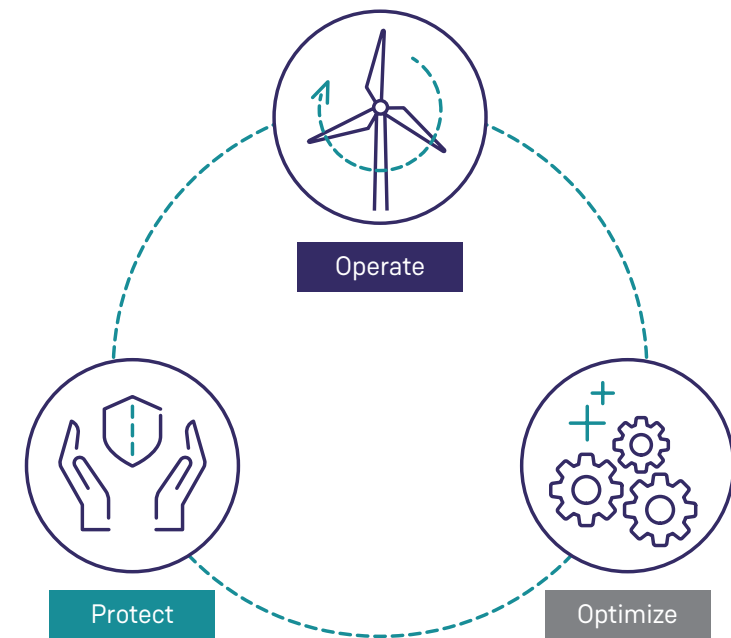
With over 40 years of expertise in wind technology, 148 GW installed and over 92 GW under maintenance worldwide, Siemens Gamesa has the experience and tools to deliver tailored technological solutions that support long-term profitability throughout the entire lifecycle of your project. Our team is passionate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



- Asset & Environment Protection**
 - Bird and bat protection
 - Aviation Lights
 - Lightning protection
 - Cold climate solutions
 - Noise reduction solutions
- Predictive Maintenance**
 - Main Shaft Monitoring System
 - SMP Vibration Diagnostics Services
 - TCM Upgrade - Vibration Diagnostics

- ICS Security**
 - Advanced Endpoint Protection
 - Backup & Restore
 - Cybersecurity Health and Check
 - Network Security
 - Patch Management
- ICS Update & Upgrade**
 - WindNet® PRO Upgrade

- Asset & Environment Protection**
 - Upgrades for the pitch system
 - Main frame/structural enhancements
 - Cooling and temperature management
 - Safety and protection systems
 - Smoke and Heat Detection Systems
 - Software Thermal Event Protection
 - Intruder Protection

- 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

- 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
 - Active power control
 - Multi-grid release mode
 - Frequency response
 - Dispatching center

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.

- Data Access and Management:** Full access to fleet data, KPIs and operational insights to support predictive maintenance and smarter decision-making.
- Operational Monitoring and Control:** 24/7 fleet supervision, SCADA systems, and expert diagnostics to ensure turbine health and early fault detection.
- Spares and On Demand Repairs:** Fast access to OEM-quality parts and repair capabilities to reduce downtime and extend component lifespan.
- 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.
- ICS Security:** Cybersecurity enhancements to safeguard your turbine control systems from emerging threats.
- 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.
- Knowledge and Guidance:** Expert support, fleet assessments, and decision-making tools based on real-world operational data and best practices.
- Lifecycle Management:** Asset strategies and upgrades that extend turbine lifespan, improve availability, and prepare your fleet for new challenges.
- Blade Integrity Management:** Advanced inspection and repair techniques that maintain aerodynamic performance and structural reliability over time.

	G42-600 kW	G44-600 kW	G47-660 kW	G52-850 kW	G58-850 kW	G66-1650 kW	G80-2.0 MW	G83-2.0 MW	G87-2.0 MW	G87-2.0 MW CS	G90-2.0 MW	G97-2.0 MW	G114-2.0 MW	G128-4.5 MW	G132-5.0 MW
Data Access & Management															
Communication Manager							●	●	●		●	●	●		●
On Demand Repairs															
Major Component Repair	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Minor Component Repair	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Uptower Repair Services Gearbox				●	●		●	●	●		●	●			
Spares	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Operational Monitoring & Control															
24/7 Alarm Response	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Power & Grid Management															
Grid Flexibility Services	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Grid Model Update	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Weather and Energy Forecasting	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Asset and Environment Protection															
Asset Protection Kits - Intruder Detection System			●	●	●		●	●	●		●	●			
Asset Protection Kits - PT100 Main Shaft Bearing Temperature Monitoring			●	●	●		●	●	●		●	●			
Asset Protection Kits - Brake Improvement: Brake Pads with Thermistor			●				●	●	●		●	●			
Asset Protection Kits - Software Thermal Event Protection				●	●										
Asset Protection Kits - Passive Fire Protection: Brake Disk			●	●	●										
Asset Protection Kits - Passive Fire Protection for Transformer: Fire-resistant Blankets							●	●	●		●	●			
Asset Protection Kits - Relocation of the Arc Sensors							●	●	●		●	●			
Asset Protection Kits - Smoke Detection System				●	●		●	●	●		●	●			
Automatic Lubrication System							●	●	●		●	●			
Aviation Lights Beacon System Replacement				●	●		●	●	●		●	●			
Cold Climate: Operation with Ice							●	●	●		●				
Control System Improvement			●												
Cooling Performance Enhancements for ABB Generator							●	●	●		●				
FG008 Change and KM052 Installation							●	●	●		●				
Lightning Protection System: Diverter Strips and Lightning Receptors				●	●		●	●	●		●	●			
Lightning Protection System: Lightning Rod (Omega)							●	●	●		●	●			
Lightning Protection System Contact LTS (Hammer)							●	●	●		●	●			
Main Frame Reinforcement 660 kW			●												
Main Frame Reinforcement 2 MW							●	●	●		●	●			
Metal-Shield Ambient Temperature Sensors				●	●										
Noise Reduction: DinoTails and Serrations											●	●			
Overspeed Guard System Protection				●	●										
Pitch Control Cylinder Support Replacement							●	●	●		●				
Pitch Control Reinforcement - Double Flange				●	●										
Pitch Cylinder Leakage Reconnection							●	●	●		●	●			
Root Anchoring Solution														●	
Wildlife Protection Bat	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Wildlife Protection Bird	●	●	●	●	●	●	●	●	●	●	●	●		●	●

	G42-600 kW	G44-600 kW	G47-660 kW	G52-850 kW	G58-850 kW	G66-1650 kW	G80-2.0 MW	G83-2.0 MW	G87-2.0 MW	G87-2.0 MW CS	G90-2.0 MW	G97-2.0 MW	G114-2.0 MW	G128-4.5 MW	G132-5.0 MW
ICS Update & Upgrade															
WindNet® PRO Upgrade	●	●	●	●	●	●	●	●	●	●	●	●		●	●
ICS Security															
Advanced Endpoint Protection	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Backup & Restore	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Cybersecurity Health and Check	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Network Security	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Patch Management	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Predictive Maintenance															
Main Shaft Monitoring System															●
SMP Vibration Diagnostics Services				●	●		●	●	●	●	●	●		●	●
TCM Upgrade - Vibration Diagnostics							●	●	●	●	●	●		●	●
TCM Upgrade							●	●	●	●	●	●		●	●
Vibration Diagnostics	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Energy Optimization - EnergyUp															
EnergyUp Cut Out							●	●			●	●			
EnergyUp Full Power Curve, Advanced											●				
EnergyUp Full Power Curve, Basic							●	●			●	●		●	
EnergyUp Nominal Range											●			●	●
EnergyUp Partial Range															
EnergyUp Full Power Curve							●	●			●	●			
Lifecycle Management															
Life Extension							●	●	●		●	●		●	●
Major component Management															
Blade Integrity Management	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Knowledge & Guidance															
Troubleshooting Support	●	●	●	●	●	●	●	●	●	●	●	●		●	●
VBAI - Visual Based Asset Integrity Management	●	●	●	●	●	●	●	●	●	●	●	●		●	●

*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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