



# **Solutions for Wind Energy Operations**





Gecko® delivers engineered solutions for wind turbines both onshore and offshore where uptime, reliability, and reduced maintenance costs are essential to operational performance. Working through our international distributor network, we support wind farm operators, OEM maintenance teams, and service contractors with high-performance protective coatings and composites, specialty cleaners and degreasers, corrosion-protection products, and advanced lubricants designed to extend component life and maximize energy output. Gecko® products are formulated to withstand the harshest environmental and mechanical stresses affecting wind turbines, including leading-edge erosion, saltwater corrosion, humidity, UV exposure, vibration, and mechanical fatigue.



## Restoring Worn Equipment & Extending Service Life

Wind turbine components experience severe erosion, abrasion, and impact—especially blade leading edges, tower bases, and high-wear mechanical surfaces.

Gecko® offers advanced repair systems for:

Blade leading-edge erosion, restoring aerodynamic profiles and protecting against rain, particulate impact, and UV degradation.

Gearbox and drivetrain housings, rebuilding worn metal surfaces and preventing further deterioration.

Tower and nacelle components, reinforcing areas weakened by vibration, corrosion, or mechanical wear.

Ceramic-reinforced epoxies provide exceptional abrasion resistance, while flexible urethane systems repair composite surfaces without requiring blade removal or hot work, reducing maintenance time and cost.

## Erosion, Abrasion & Impact Protection for Blades and Structures

Wind turbine blades are exposed to high-velocity rain, sand, ice, and airborne particles that degrade aerodynamic performance and significantly reduce power output.

Gecko® protective coatings function as long-lasting erosion-resistant barriers for:

- ✓ Leading edges
- ✓ Blade tips and root sections
- ✓ Blade trailing edges
- ✓ Tower base impact zones

For areas experiencing mechanical impact or vibratory load, Gecko® systems provide tough, shock-absorbing protection. Fast-curing products ensure minimal turbine downtime and rapid return-to-service.

## Gearbox, Generator & Mechanical Component Rehabilitation

Wind turbine mechanical assemblies operate under continuous stress, high vibration, and fluctuating loads.

Gecko® cold-applied composites repair gearbox casings, generator housing, bearing seats, and misaligned mechanical components without disassembly.

Low-friction metal repair systems:

- ✓ Reduce start-up wear
- ✓ Improve lubricant retention
- ✓ Enhance long-term mechanical reliability
- ✓ Fast-cure options allow immediate in-situ repairs, avoiding costly turbine shutdowns.

## Corrosion Resistance for Offshore & Onshore Structures

Wind turbines face extreme corrosion challenges, particularly in offshore environments dominated by salt spray, humidity, and continuous UV exposure.

Gecko® corrosion-protection coatings safeguard:

- ✓ Tower bases exposed to seawater, abrasion, and atmospheric corrosion
  - ✓ Nacelle and hub assemblies exposed to saline environments
  - ✓ J-tubes, platforms, access ladders, fasteners, and flange connections
  - ✓ Internal tower components affected by condensation and galvanic corrosion
- Ceramic and polymer barrier coatings ensure long-term structural integrity and reduced maintenance intervals.



## Chocking, Leveling & Structural Support for Turbine Equipment

Wind turbine foundations and nacelle equipment are exposed to high vibration and cyclic loading.

Gecko® chocking and grouting systems provide:

- ✓ Precision alignment for yaw motors, gearboxes, and generator mounts
- ✓ Structural stabilization for tower base plates and platform supports
- ✓ Uniform load distribution for heavy dynamic components

These pourable, cold-applied compounds cure to high-strength solids, improving long-term turbine stability and performance.

## Cleaning, Degreasing & Environmental Maintenance

Wind turbines accumulate grease, hydraulic oil, environmental contaminants, and salt deposits.

Gecko® industrial cleaners are engineered to remove:

- ✓ Gearbox oil residues
- ✓ Hydraulics fluid leaks accumulation from yaw and pitch systems
- ✓ Salt deposits and atmospheric contaminants
- ✓ Composite surface contamination prior to coating or repair
- ✓ Fast-acting cleaners reduce preparation time and improve coating adhesion, ensuring long-lasting repairs.

## Lubricants & Corrosion Inhibitors for Turbine Reliability

Gecko® specialty lubricants and corrosion inhibitors extend the life of:

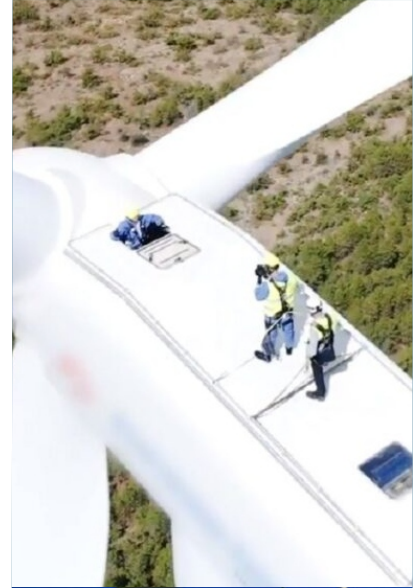
- ✓ Bearings and pitch systems
- ✓ Yaw gears
- ✓ Hydraulic systems
- ✓ Mechanical linkages and exposed metallic components

These products resist salt spray, moisture ingress, and continuous vibration ensuring long-term reliability under extreme environmental conditions.

**Whatever your application, Gecko®  
has the right solution.**



Our advanced R&D team develops customized formulations for unique environmental conditions offshore, onshore, desert, tropical, arctic and meets the technical standards required by the global wind industry.

**Less downtime and faster return-to-service.  
Gecko® keeps wind turbines generating at peak performance.**





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The technical data, recommendations, and statements presented in this brochure reflect good-faith testing and experience that CMV50 Corporation Inc. regards as dependable. Nevertheless, the accuracy and completeness of such information cannot be assured, and it is not intended to replace or substitute the customer's independent testing.

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