

SIEMENS 1.3 and 2.3 MW

Up-tower field services, in-shop repairs and distribution

WIND POWER FIELD SERVICE

Denver, CO
800.448.0899

Indiana, PA
800.537.0097

Lake Benton, MN
507.368.4015

Portland, OR
800.366.4951

Shreveport, LA
800.366.6030

Sweetwater, TX
325.933.4275

Winnipeg, MB
204.237.6066

WIND POWER DISTRIBUTION

Dassel, MN
320.204.0582

WIND POWER SERVICE CENTERS

Chicago, IL
800.978.4559

Denver, CO
800.448.0899

Indiana, PA
800.537.0097

Litchfield, MN
888.694.6200

Portland, OR
800.366.4951

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Our dedicated up-tower and in-shop technicians service Siemens 1.3 and 2.3 MW turbines coast to coast

IPS offers complete services on Siemens 1.3 and 2.3 MW Series wind turbines. Our technicians have developed innovative skills and technologies to keep the work up-tower. We're experienced at moving heavyweight couplings, end bells and slip rings, and doing machine work inside the Siemens nacelle.

We also provide comprehensive in-shop repair services and a generator unit exchange program to minimize downtime and crane costs. No matter which IPS regional service center works on your Siemens wind turbines, you can count on one standard of excellence for safety, quality and repairs—coast to coast.



Our up-tower technicians provide predictive and preventive maintenance, diagnostic testing and pre end-of-warranty inspections

UP-TOWER FIELD SERVICES

- Generator and gearbox repair
- Bearing changeouts and upgrades
- Slip ring changeouts, upgrades and turning
- Grounding system upgrades
- Housing and component rebuilds
- Brush holder upgrades
- Battery pack upgrades
- Predictive and preventive maintenance
 - Laser alignment
 - Vibration and Modal analysis
 - Thermography
 - Bore Scoping
- Diagnostic Testing
 - Baker Surge Test
 - Motor Circuit Evaluation (MCE)
 - Doble® and Partial discharge
- Scheduled maintenance programs
- End-of-warranty inspections
- Generator unit exchange program
- Emergency repairs

IN-SHOP REPAIR SERVICES

- Authorized OEM repair
- Electrical repair
 - Generators—rewind, recondition, mechanical and machining
 - Pitch and yaw motors
 - Oil pump motors
 - Cooling fans
 - Hydraulic pump motors
 - Electronic board repair
- Mechanical repair
 - Generator and gearbox housings
 - Main turbine gearboxes and gears
 - Yaw gearboxes
 - Main shafts
 - High-speed shafts
 - Slip rings
 - Heat exchangers
- Random-wound coil manufacturing up to 2m
- Premium VPI systems up to 15 kV

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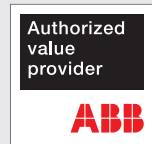
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www.ips.us/wind

Siemens 1.3 and 2.3 MW

Up-tower field services, in-shop repairs and distribution

Products and parts sales

- Generator and gearbox components
- Generator couplings
- Brushes and brush holders
- Grease and oil
- Encoders—hollow and solid shaft
- Shaft grounding rings
- Pitch control and custom slip rings
- Bearings—Steel, Insocoat and Ceramic
- Pitch control battery pack upgrades
- Auto-lube systems
- Replacement motors—pitch, yaw, cooling pump and all metric motors
- Electronic boards
- Stator coils up to 15 kV

In-house CNC precision parts manufacturing

- Shafts up to 22" and 80" long
- Milling up to 20" x 40" plate
- Drilling and tapping of holes
- Milling of flats and hex parts
- Machining keyways
- Cutting multiple parts and sizes up to 16" diameter
- Digital bore gauges
- CAD/CAM 3D drawings



ONE STANDARD FOR SAFETY, QUALITY AND REPAIRS—COAST TO COAST

