

WIND POWER

MINIMIZE DOWNTIME, MAXIMIZE ASSET PERFORMANCE

Expertise in Operations & Maintenance services is crucial to ensuring the performance and reliability of wind assets over the long term. Through its subsidiaries Northwind and Northwind Solutions Group Inc., Spark Power Corp. provides a complete suite of essential operations and maintenance for wind turbine assets.

EXPERTISE

Our highly trained technicians are equipped with a wide range of capabilities and specialized equipment to ensure your wind assets are always performing to their potential. Our solutions can be customized to each customer's site and manage every element of service with our in-house team of wind experts. From development to implementation, through to operations and maintenance services, we work with you every step of the way:

- ✔ Operations and Maintenance
- ✔ Service and Repair (Uptower)
- ✔ Large Component Exchange
- ✔ Quality Assurance and Quality Control Reviews
- ✔ Substation and High Voltage Maintenance

SERVICE OFFERINGS

Our capabilities span the full range of skills and knowledge required to build, operate and service leading wind power generation assets in North America. Our diverse experience and expertise combined with our processes and technical infrastructure enables us to deliver services that continually exceed customer expectations including:

OPERATIONS AND MAINTENANCE:

- ✔ Site Management and Technician Staffing
- ✔ SCADA Monitoring (Remote and On-site)
- ✔ Delivery of OEM Scheduled Maintenance
- ✔ Mobile Gear Box Oil Flush and Changes
- ✔ Predictive and Preventive Maintenance
- ✔ Substation and High Voltage

SERVICE AND REPAIR:

All major and minor component repair and replacement services, including:

- ✔ Complete Uptower Services
- ✔ Gear Boxes, Generators and Blades
- ✔ Yaw and Hydraulic Systems
- ✔ Retrofits
- ✔ Electrical



CONSULTING AND MANAGEMENT SERVICES:

- ✓ Project Operations and Maintenance
- ✓ Budgetary/Project Estimating
- ✓ Quality Assurance and Quality Control
- ✓ Commissioning

PLANNED MAINTENANCE EVENTS

- ✓ Torqueing/Tensioning
- ✓ Blade Inspections
- ✓ Gear/Hydraulic Oil Changes (Sage Oil Vac System)
- ✓ Oil Sampling

MAJOR COMPONENTS

- ✓ Gearbox / Main Shaft Change outs
- ✓ Generator
- ✓ Blade Change outs
- ✓ Yaw System Service

OFF WARRANTY INSPECTIONS

- ✓ Complete punch list creation / as built verifications

MONITORING & PERFORMANCE ANALYTICS

Our dedicated remote monitoring location offers 24/7 asset monitoring and technician dispatch services. In addition, we integrate with most industry leading SCADA systems to give you consolidated reports and insights into the performance of your wind assets:

- ✓ Daily monitoring of site SCADA and DAS systems
- ✓ Performance reporting and analysis
- ✓ Management and scheduling of all maintenance obligations
- ✓ Responsive dispatch – service and maintenance work, order management and reconciliation

HEALTH AND SAFETY

We are committed to the health and safety of our employees and all who are involved in our projects. Protection of employees from injury or occupational disease is an ongoing objective of our business. We are dedicated to achieving an accident-free workplace through effective administration of education and training programs.

ABOUT SPARK POWER CORP.

Spark Power Corp. delivers technical innovation, asset management, project development, maintenance, service and operational support to the renewable energy sector and industrial, commercial, institutional (“ICI”) and utility markets. Headquartered in Oakville, Ontario, with branches in Barrie, Belleville, Blenheim, Brampton, Cambridge, Chatham, Hamilton, Markham, Mississauga, New Liskeard, Perth Peterborough, Tillsonburg, Stoney Creek, Vaughan and Whitby, the company has over 400 employees and 4,500 customers across Ontario. For more information, please visit us at www.sparkpower.ca



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