

HIGH & MEDIUM VOLTAGE SYSTEMS

We are the experts in high and medium voltage services.

Spark Power Corp. delivers integrated, end-to-end service solutions for high voltage systems management to industrial, commercial, institutional (ICI) and utility customers across Ontario. Our staff of highly trained engineers, tradespersons and technicians offers best in class service and responsiveness to ensure the safety and reliability of your power infrastructure for years to come.

SERVICE OFFERINGS

HIGH AND MEDIUM VOLTAGE MANAGEMENT

Expert preventive maintenance services for medium & high voltage infrastructures including:

- ✔ Transformers, switchgear, protection & control, bus, cables and lines
- ✔ Electrical system troubleshooting, failure recovery and modernization

COMMISSIONING SERVICES

Full scope independent commissioning services for new and retrofit infrastructures:

- ✔ Device and equipment testing
- ✔ Device verification
- ✔ Start-up services
- ✔ Relay calibration
- ✔ Function testing
- ✔ End-to-end testing
- ✔ SCADA system verifications
- ✔ Protection & control system testing
- ✔ Transmission Confirmation of Verification Evidence Report Management (COVER)

POWER "ON" SERVICES

Advanced diagnostic services to avoid costly outages and repairs:

- ✔ Thermographic scans
- ✔ Insulating fluid services
- ✔ Monthly inspections
- ✔ On load tap changer analyses
- ✔ Ultrasonic testing
- ✔ Power quality monitoring
- ✔ Partial discharge testing

SUBSTATION CONSTRUCTION

Single source solutions for both new substation installations and upgrading existing facilities:

- ✔ Distribution and transmission substations up to 230kV
- ✔ Pre-service commissioning and testing
- ✔ Utility and ICI substations
- ✔ Industrial wiring
- ✔ Component procurement
- ✔ COVER Testing
- ✔ Grounding system installation
- ✔ De-commissioning and removal



POWER LINE CONSTRUCTION AND MAINTENANCE

Full service delivery including construction, restoration and maintenance:

- ✔ Overhead and underground power line construction up to and including 230 kV
- ✔ Tension stringing
- ✔ Qualified switching agents
- ✔ Centralized scheduling and dispatch of service orders
- ✔ Service work
- ✔ Overhead power line equipment and switchgear such as reclosers, voltage regulators, air break switches and SCADA controlled equipment
- ✔ Street lighting systems
- ✔ 24/7 emergency services

ENGINEERING SERVICES

Practical engineering advice and support for power systems optimization, including:

- ✔ Protective device co-ordination studies
- ✔ Short circuit analyses
- ✔ Arc flash studies
- ✔ Power quality and harmonics studies
- ✔ Load flow and power factor studies for AC and DC systems

ENGINEERING SERVICES CONTINUED...

- ✔ Ground system studies and design
- ✔ Feasibility and modernization studies

EQUIPMENT SALES & RENTAL

Supply of new and used High and Medium voltage equipment

- ✔ Transformers (rental units to 45MVA)
- ✔ Switchgear
- ✔ Fusing
- ✔ Pole switches and pole hardware
- ✔ Breakers (all types) new and used
- ✔ In-house fabrication and modification capabilities

INSULATING FLUIDS LABORATORY SERVICES

In-house lab providing a full range of acceptance tests, including:

- ✔ Fluid maintenance tests and PCB content analysis to ASTM standards
- ✔ Subscription to bi-annual laboratory cross-check proficiency testing with ASTM and CALA

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, Brampton, Cambridge, Chatham, Hamilton, Markham, Mississauga, New Liskeard, Perth, Peterborough, Stoney Creek, Tillsonburg, 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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