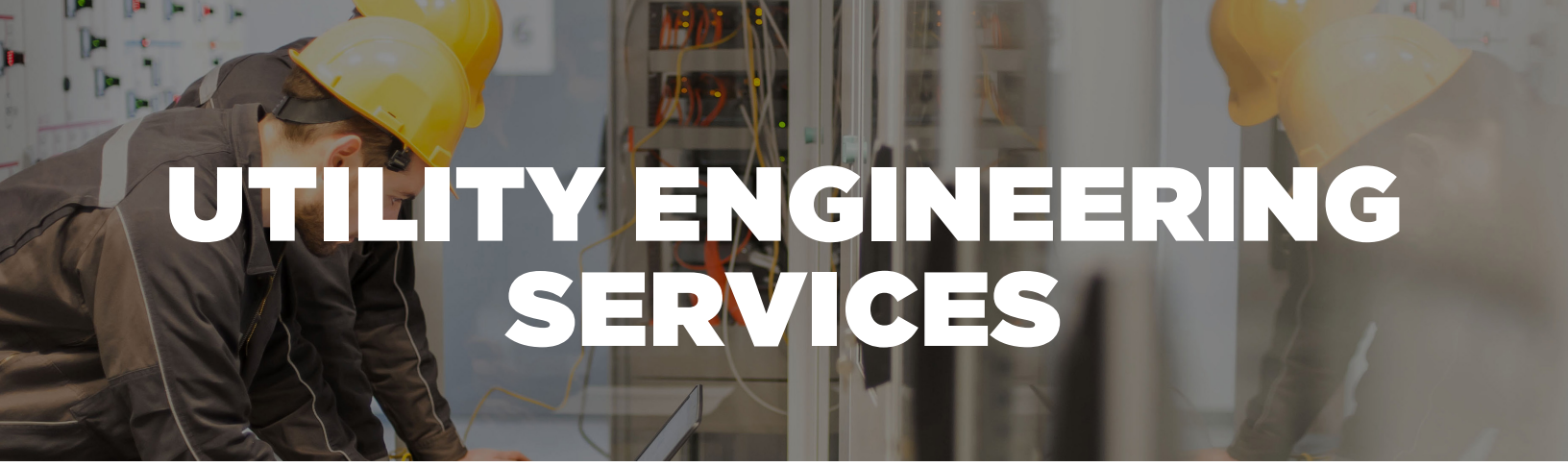




UTILITY ENGINEERING SERVICES

WHAT WE DO

Spark Power is a full-service, electrical contractor, providing a unique blend of quality, professional electrical construction and design-build services that are code compliant. Our mission is to ensure all buildings we work on follow compliance prior to tenant fit-up including base building systems i.e. distribution, fire alarm, lighting, and exit/emergency.

Spark is well-respected for its technical expertise and for executing complex projects on time and on budget. We always put our customers first, and it is with this continued commitment in mind that we continue to grow our locations across North America and provide a full set of electrical construction and design-build services.

Spark Power has provided engineering design, construction, commissioning, and maintenance for substations ranging from 480V to 240kV.

OUR EXPERTISE

Through our experiences, we have developed work practices, calculating methods, project execution methodology, and quality assurance processes that help us optimize our resources costs and meet our client's expectations.

Members of our project team have participated in and are currently active in generation and substation projects at the Electric Utility and the Power Plant in engineering, commissioning and start-up capacities.

WHY CHOOSE SPARK?

Our engineering team currently consists of 60 engineers, engineers-in-training, technologists, technicians, designers, and drafters who are based out of our Toronto, Hamilton, Calgary, and Edmonton offices. We offer multi-disciplinary services and specialize in electrical power systems projects.

KEY AREAS OF EXPERTISE

- Turnkey engineering
- Substation, protection and control, SCADA, telecom and civil, structural, and architectural
- Complete project management
- Construction including civil, structural, buildings, electrical, SCADA/automation and telecom
- Acceptance testing, commissioning, and functional testing of all substation apparatus
- Acceptance testing, commissioning, and functional testing of all protection and control systems
- Acceptance testing, commissioning, and functional testing of all SCADA, HMI and substation automation
- Commissioning and functional testing telecom
- Substation maintenance

CAPABILITIES

- Substation electrical engineering
- P&C engineering & design
- SCADA engineering
- Field P&C and SCADA engineering, including NETA Level II and Level III personnel
- Civil & structural engineering
- Mechanical engineering

PROJECT EXPERIENCE

It has been our privilege to serve as the lead engineers and engineering service providers in the successful delivery of following projects:

Altalink – Enchant 447S Substation Upgrade

Approximate Cost: \$3,400,000.00

Project Scope of work:

This project involved upgrading the existing Enchant 447S substation, including the addition of a new 138/25 kV transformer.

Covenant Health – Emergency Generator Controls Replacement

Approximate Cost: \$470,000

Project Scope of work:

Designed PLC, HMI, and Load Bank Terminal, provided associated protective relay retrofit design, procurement of all equipment and hardware, complete construction and fabrication of all panels and retrofits, and commissioning and start-up support.

STEM Inc. – 14 MW Turnkey BESS Portfolio (4 Sites)

Approximate Cost: \$3,675,000.00

Project Scope of work:

Included engineering, procurement, and construction of four Battery Energy Storage System projects, interconnection of medium distribution system, co-ordination with local facility, utilities and other authorities. Installation and commissioning of protection and control systems, testing, pre-commissioning and commissioning of installed apparatus, cabling, grounding system. Complete engineering of system including system studies, electrical design, and foundations.

City of Medicine Hat – Commissioning and Upgrade Projects

Approximate Cost: >\$5,000,000.00

Project Scope of work:

Replacement of 15kV outdoor substation with indoor skid-mounted switchgear application, protection and relay. Upgrades within generating station, 138 kV system upgrade project management support and on-site supervision, commissioning and engineering, 15kV switchgear testing, 69kV substation expansion, commissioning and integration, and routine maintenance.

Altalink – Nilrem 574S Substation Upgrade

Approximate Cost: \$2,000,000.00

Project Scope of work:

An upgrade of the Nilrem 574S substation, including adding a new transformer and circuit breaker. Additional equipment will also be added to the substation.

City of Medicine Hat – Unit 16 Switchgear Expansion to Hut 8

Approximate Cost:

Project Scope of work:

Installed electrical expansion CWP, revision of electrical protection and control scheme, load shed scheme, update/revision of operating procedures, and on-site training. Designed new grounding pad, floor opening, stair relocation and building platform, cable bus support modifications, and cable bus. Co-ordination of piling and foundation, support of permitting and on-site project management, and overseeing of civil, structural, and electrical trades. We also completed on-site commissioning.

Qulliq Energy Corporation (Nunavut Power Corporation) Support Contract (As and When)

Approximate Cost: \$3,000,000+ (since 2012)

Project Scope of work:

Supporting Qulliq Energy Corporation (QEC) is entrusted to provide safe, the sole provider of electricity and district heating in Nunavut. QEC faces unique challenges as it operates 25 stand-alone diesel power generation facilities and distribution systems located in each of the territory's communities.

CanCarb – 5 kV Motor Protection Upgrades – Co-gen Plant

Approximate Cost: \$26,000.00

Project Scope of work:

Supporting CanCarb, an organization focused on producing thermal black carbon on an industrial scale, with upgrades.

ONLY ZERO IS ACCEPTABLE

When it comes to safety, **only zero is acceptable. Zero** accidents at work. **Zero** compromise to prioritizing safety.

Spark Power Corp (“Spark Power”) is the leading independent provider of end-to-end electrical services, operations and maintenance services, and energy sustainability solutions to the industrial, commercial, utility, and renewable asset markets in North America. We work to earn the right to be our customers’ Trusted Partner in Power™. In the state of California, we operate under license #533593. In the state of Texas, we operate under license #TECL-34613.

FOR MORE INFORMATION, PLEASE CONTACT US AT 1.833.775.7697 | WWW.SPARKPOWERCORP.COM

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