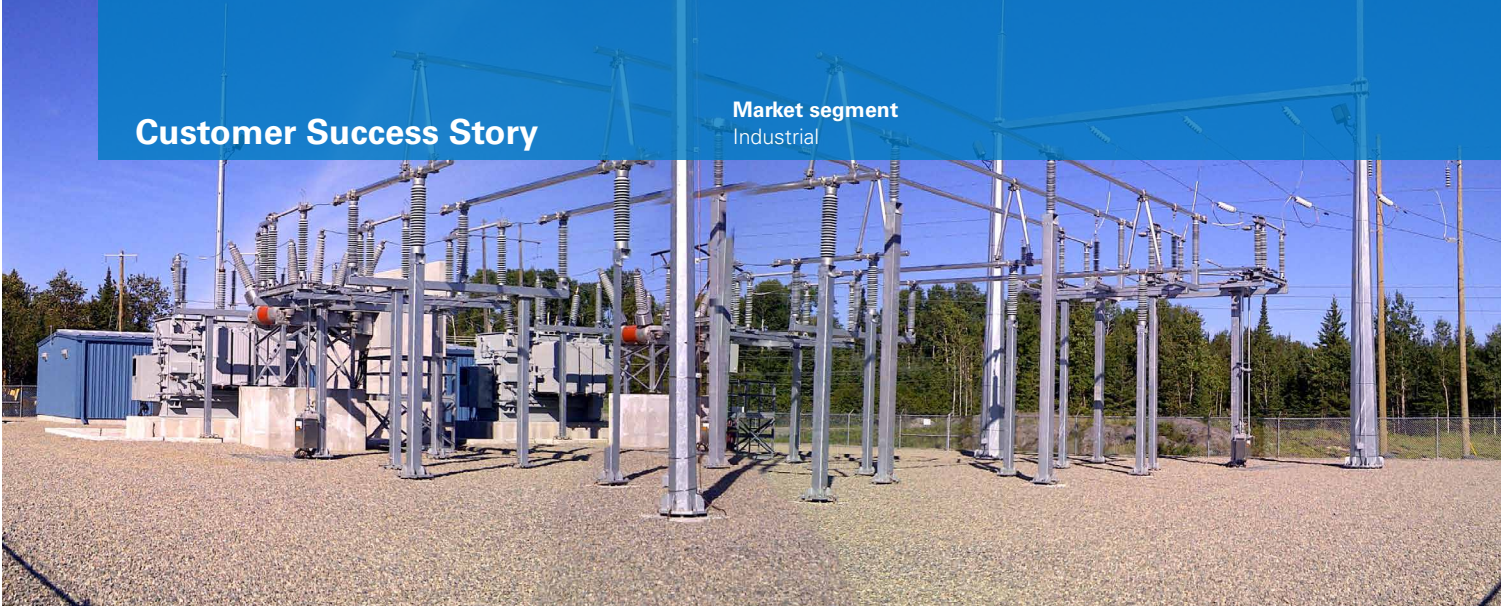


Customer Success Story

Market segment
Industrial



Eaton's Electrical Services & Systems Design-Build project to construct an above ground service for a new 50 MVA, 115 kV to 27.6 kV main Substation for an existing Gold Mine in Northern Ontario

Project details

- Design/Build
- Mining-Metals/Minerals
- Switchgear Upgrade
- Construction
- Commissioning
- Engineering
- Greenfield
- High Voltage
- Low Voltage
- Medium Voltage
- SCADA
- Startup
- Substation
- Testing
- Turnkey

Project Highlights

- Perfect Safety Record
- 4 Months Construction
- 2 Week Commissioning

Eaton contact

Mario Lefebvre

Project number

CCKESD11J0235

PROJECT DESCRIPTION

An existing Gold Mine in Northern Ontario required a new 115 kV substation to provide power to a major expansion.

Eaton's Electrical Services & Systems was awarded the Design-Build project to construct the above ground services for a new 50 MVA, 115 kV to 27.6 kV main substation.

The customer completed construction of the underground services. Substation construction immediately followed the underground services.

Scope of Supply

Eaton was responsible to Design, Procure, Install and Commission all above ground equipment and services from the incoming dead-end structure to the 27.6 kV pole line feeders. Substation Engineering included:

- Ground Grid design requiring 30 km of buried copper to meet site conditions,
- Substation Layouts, cross-sections, bus design and support structures
- Electrical design including Studies, One- Lines, Schematics, Cable Schedules etc.
- Switchgear and Control Building electrical and mechanical design

Substation Equipment includes:

- One - 123kV motorized gang operated disconnect switch with grounding switch,
- Two - 123kV motorized gang operated disconnect switches,
- 115 kV Outdoor Substation bus work and support structures
- Two - 123kV, SF6 gas insulated, 3 pole circuit breakers
- Two - 25 MVA, 115 kV to 27.6 kV, Main Transformers
- 27.6 kV indoor, metal-clad, arc resistant type 2B switchgear.
- Communication, Control & Protection systems



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