

# TransCanada – Testing and Commissioning of NGS 500 kV Switch Yard & Balance of Napanee Generating Plant

## CLIENT

TransCanada

## LOCATION

Municipality of Napanee,  
Ontario

## Project Description

Napanee Generating Station (NGS) is a 900 megawatt (MW) natural gas-fuelled electricity generating station. This station is tied in directly with the OPG Lennox Generating Station 500 kV Ring Bus. Black & McDonald (B&M) was contracted to complete the inspection, testing and commissioning of the 500 kV yard (including testing with HONI & IESO) as well as the BOP equipment down to the 600 V level.

## B&M Scope of Work

Inspection, testing and commissioning of NGS 500 kV Switchyard & Balance of Plant Equipment. The work included:

- 500 kV motorized disconnect switches
- 500 kV ABB SF6 insulated breakers
- Protection and control (transformer, line, differential, feeder, generator protection)
- General Substation Equipment (CVTs, CTs, PTs, LAs, HV bus, control wiring, etc.)
- LV and MV cable testing (VLF)
- 21 kV auxiliary, excitation and station service transformers
- 600 V DC switchgear building
- AC/DC control systems
- 5 kV / 600 V switchgear and relays
- COVER & IESO testing