

# Pre-Service Testing and Commissioning of Clarington TS 500 kV to 230 kV

## CLIENT

Hydro One Networks Inc.

## LOCATION

Municipality of Clarington, Ontario

## PROJECT DESCRIPTION

A new transformer station for Hydro One Networks called “Clarington TS”, which is located in the municipality of Clarington (east part of Greater Toronto Area), needed to be constructed. The purpose of this project was to replace 3,000 megawatts (MW) of capacity that was being supplied by the largest nuclear generation station in the GTA (Pickering Nuclear Generation Station) that was slated for decommissioning in 2020. When Clarington TS is fully commissioned it will be able to offset the generation loss with transmission capability and supply as much as 25 per cent of the eastern GTA's electricity demand.

## B&M SCOPE OF WORK

Pre-Service Testing and Commissioning of the Clarington 500 kV to 230 kV Step-Down Transformer Station included:

- Two 500 kV circuit breakers and sixteen 230 kV circuit breakers
- Two 230 kV bus tie breakers
- Two 750 MVA auto-transformers
- Two 230 kV capacitor bank and two 230 kV capacitor bank breakers
- Two 750 MVA station transformers
- One ATS building
- Two P&C buildings
- Over 200 km of cable