



900MW COMBINED-CYCLE GENERATING STATION

CLIENT - TransCanada
LOCATION - Napanee, Canada
COMPLETED - July 2018

DESCRIPTION

Matrix NAC was awarded the construction of TransCanada's Napanee Generating Station (NGS), a natural gas-fueled electricity generating station located in Napanee, Ontario. NGS consists of two 271 MW gas turbine/generator sets and one 457 MW steam turbine/generator set. The NGS functions as a flexible power system with the ability to start and stop daily and produce a varied output of energy to meet the needs of Ontario's electricity demand.

The majority of the work was self-performed. At peak, the labor force was at 1,000 people. Scope included general construction, civil, electrical, mechanical, piping, structural, tanks, balance-of-plant (BOP), and high-voltage substation.

PRINCIPAL FEATURES

- Construction, construction management, and subcontract management
- Set owner-furnished major equipment
- (2) 271 MW 501GAC gas turbine/generator sets
- 457 MW steam turbine/generator set
- 100,000 ft of pipe installed
 - 16,500 m field run large bore pipe
 - 17,500 m field run small bore pipe
- 1.7 million ft of electrical cable installed
 - 205,000 m power cabling
 - 325,000 m control cabling
- Complex foundations, including STG, GTG, and HRSG
- Site is approx. 93 acres; facility occupies approx. 25 acres

FOR MORE INFORMATION:
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