



Towantic Energy Center

The primary aim of the overall CPV Towantic Energy Center project in Oxford, CT is to meet the growing electricity needs of the region. Broken into separate projects, the overall project includes install a 785 MW combined-cycle electric generating facility. This power plant proposes to interconnect to the Eversource Energy 115kV transmission system, which requires construction of a new Eversource Energy 115kV switching station with an associated 115kV turning structures and transmission taps.

McPhee Electric, Ltd. is the primary contractor on this engineer procure construct project for all engineering and plan development, as well as site development and construction of a new 115kV switching station. The Eversource Energy Towantic 3P 115kV Switching Station is a "Greenfield" transmission switching station consisting of nine 115kV line terminals configured in a breaker and one-half layout with fourteen circuit breakers. The project is part of the connection to the electric grid for a new combined cycle power plant.

McPhee is providing all design, purchasing, and performing installation work for the entire project. Scope

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of work includes all access; roads, site development, drilled shaft foundations, control house, P&C design to 61850 protocols, underground 115kV pep cables to new OH line transition structures, overhead lines to new transition line structures, P&C installation, conduit install, P&C cabling install, grounding, and security fence installation.

McPhee is also responsible for providing all P&C and station equipment testing as well as electrical commissioning services for work required to integrate the station into the electric grid and generating station. In addition, McPhee installed new transmission monopole structures and caisson foundations located in the ROW and transmission line taps.

Market:
Power & Utility

Date:
February 2018

Location:
Oxford, CT

