



CENTRAL MAINE POWER

An AVANGRID Company

RELIABILITY UPGRADES Bowman Street Substation

CONTACT

Project Information Line: **888.267.0831**

Refer to: **Bowman Street Substation**

Website: **cmpco.com > Reliable Service**

PROJECT OVERVIEW

As part of our commitment to provide safe, reliable service to all our customers, Central Maine Power Company (CMP) is upgrading its Bowman Street Substation in Farmingdale.

CMP is working with communities and reaching out to neighbors to ensure that all improvements are performed safely and with minimal disruptions to their daily lives, the community, and the environment.

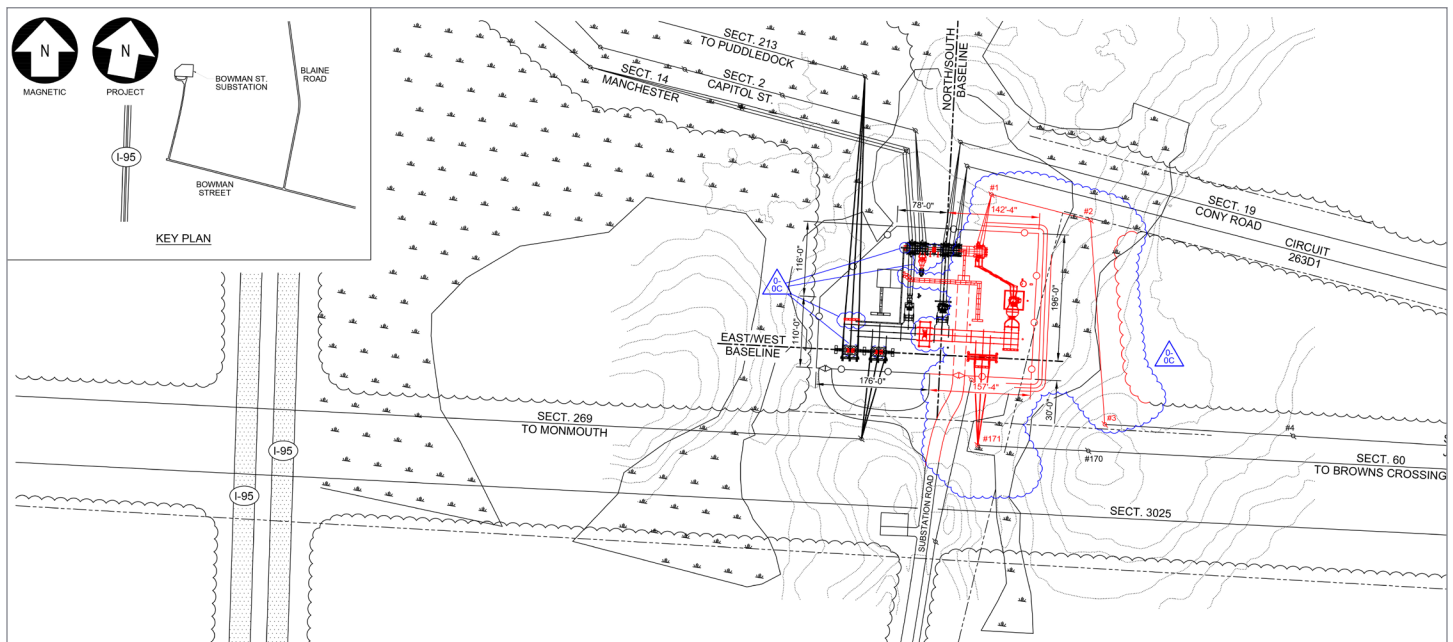
PROJECT PURPOSE AND NEED

Avangrid Networks, the parent company of CMP, recently conducted a comprehensive, multi-year transmission planning study to examine the need for electrical system improvements. Through this effort that we call the Brightline BES Project, we identified key areas of our system that require upgrades to comply with newer Federal Energy

Regulatory Commission (FERC) standards and to update asset conditions. Bowman Street Substation, located at 56 Substation Road, was identified in the study.

This 115/34.5kV substation is located approximately 780 feet west of the Maine Turnpike (Interstate 95) and approximately 1,470 feet north of Bowman Street, at 56 Substation Road. It was constructed in 1973 and in 1988 was expanded to its current fence-line footprint. The area enclosed by the current security fence covers approximately 1.09 acres and in addition to dead-end structures, transformers, circuit breakers, and a capacitor bank, also includes a control house.

The Substation is located in between two east-west trending transmission line corridors and now supports 115kV Transmission Line Sections 60, 269, 213 and 34.5 kV Line Sections 2, 14, 19, 41 and 34.5 kV Circuit 263D1. These line sections and circuits in 34.5kV are interconnected with other distribution substations in the towns of Augusta, Dresden, Gardiner, Hallowell and Manchester for energy supply to industrial, commercial and residential customers.



CMP's planned upgrades to the Bowman Street Substation in Farmingdale are shown in red. Also shown are the substation's connections to neighboring communities.



Photo above shows Bowman Street Substation in Farmingdale.



Photo to the right shows Bowman Street Substation in Google Earth.

PROJECT SCOPE

Planned upgrades at the Bowman Street Substation include a new 115/34.5kV power transformer; replacement of old 115kV circuit breakers with new SF6 breakers per AVANGRID standards; and the relocation of the existing 115kV transmission line (Section 60) to connect to a new bay of the substation.

The substation expansion is proposed on the east side of the existing footprint and will enclose an area measuring approximately 0.465 acre. The substation's new net area will be approximately 1.554 acre. This expansion is necessary to make room for the installation of the new power transformer and the additional equipment required for Section 60 (115 kV) and Section 41 (34.5 kV) lines relocation.

Assets that are in poor condition will be upgraded and at this time and this scope entails replacement of all three of the existing 115kV oil circuit breakers.

ACCESS

All work for this project will be performed within CMP's existing right-of-way (ROW) on Substation Road.

TREE CLEARING

Tree clearing is required for the expansion of this substation.

WORK HOURS

No work will be done in the dark. Construction noise will be present. You will hear heavy equipment as well as excavators during matting and pole setting activities.

PROJECT FEATURES

- New 115/34.5kV power transformer.
- Replacement of old 115kV circuit breakers with new SF6 breakers per Avangrid standards
- Relocation of the existing 115kV and 34.5 kV transmission lines (Section 60 and 41) to connect to a new bay of the substation.

PROJECT FACTS

Municipality:	Farmingdale
County:	Kennebec
Communities Served:	Augusta, Dresden, Gardiner, Hallowell and Manchester
Permitting Required:	Maine Department of Environmental Protection, U.S. Army Corps of Engineers and Farmingdale

ESTIMATED TIMETABLE *(subject to change)*

Construction Start:	July 2020
Estimated Completion/ In-Service Date:	Late April 2021

BENEFITS TO THE REGION

- Improved reliability to meet customers' electricity needs.