

NEW BUFFALO 500-138 KV SUBSTATION AND TRANSMISSION LINE PROJECT



INTRODUCTION

PPL Electric Utilities plans to build a new 500-138 kV substation and complete targeted transmission upgrades in central Pennsylvania to support growing electric demand while maintaining safe and reliable service for existing customers. The project will modernize portions of the local transmission system, including infrastructure connected to the Juniata-Alburtis 500 kV transmission line, which was originally built in the late 1960s.

WHAT WORK WILL OCCUR?

Safety for our customers, communities and employees is our top priority. The project includes construction of the New Buffalo 500-138 kV substation near the existing Juniata-Alburtis 500 kV transmission line corridor. As part of this work, the existing 500 kV transmission line will be split to connect the new substation to the regional electric grid.

The project also includes rebuilding approximately 9.5 miles of existing transmission line into a double-circuit configuration to improve capacity and reliability. Six new 138 kV transmission circuits will connect the New Buffalo substation to the customer's on-site substation. Using existing transmission corridors where possible helps limit the need for entirely new rights-of-way.

WHAT WILL BE BUILT

The project includes a new 500-138 kV substation with an expected footprint of approximately 18 acres, consistent with infrastructure required at this voltage level. The work also includes targeted transmission upgrades needed to connect the new substation to the regional grid and support up to 1,000 megawatts of new electric demand in Watts Township.

Modernizing this infrastructure will strengthen the electric system, improve operational flexibility and help ensure the grid can continue serving current customers while supporting future growth in the region.

HOW TO LEARN MORE

PPL Electric Utilities is committed to keeping local officials, landowners and residents informed throughout the life of the project. Clear and timely information will be shared about siting, construction activities, schedules and environmental considerations as the project progresses.

Stakeholders will continue to receive updates and opportunities to ask questions. Construction and operations will be guided by a focus on safety, reliability and respect for the local communities.

ABOUT THE PROJECT

The New Buffalo project is part of long-term system planning to meet evolving energy needs in central Pennsylvania. Large customers of this scale require direct connection to the transmission system, which drives the need for certain upgrades. Transmission upgrades for large load customers are evaluated through established planning, regulatory and cost-allocation processes.

Infrastructure required to serve a specific large customer is structured so that costs are not shifted to existing customers. This approach supports responsible growth while maintaining system reliability and fairness for customers.



ABOUT PPL ELECTRIC UTILITIES

PPL Electric Utilities delivers safe, reliable and affordable electricity to nearly 1.5 million homes and businesses across 29 counties in eastern and central Pennsylvania.

Visit pplelectric.com for energy efficiency tips, bill help information, guidance on shopping for an electricity supplier and more.

For more information, scan the QR code to visit the project webpage.

