

Welcome to the overview of Dominion Energy's Loudoun-Ox 230 kilovolt transmission line rebuild project. This project will address aging electric transmission infrastructure. Three primary forces drive the need for new electric transmission infrastructure. Economic development, such as population growth or business expansion, complying with mandatory standards to ensure safety and reliability, and aging assets such as old structures that need to be replaced. We believe that the correct solution will consider future energy needs and balance costs and impacts.

The key purpose of this project is to replace old infrastructure. This 230 kilovolt line was originally built in the 1960s using Cor-10 steel, which gave the steel a rust color. The idea behind using cor-10 was that it would seal the steel with a form of rust patina that would prevent further natural rusting and corrosion. However, when used on lattice structures, the patina layer did not perform as expected and is aiding and degrading the steel and reducing the durability of the lattice structures. Although well maintained, it has come time to replace these structures.

This project will replace aging Cor-10 lattice structures with new steel monopole structures in an existing corridor in Loudoun, Fairfax, and Prince William counties. The project will take place entirely in existing rights-of-way and rebuild the line to meet current and district standards. The new monopole structures will either have a galvanized or weathering steel finish. The finish will be determined based on a variety of factors including engineering, cost efficiency, and community feedback.

This approximately 19 mile segment stretches from the Loudoun substation to the Ox substation. Transmission line construction will be completed in four different segments. In addition, construction will include improvements to the Bull Run substation.

The first segment runs from the Loudoun substation to the Elk Lick substation and is about four miles long. Our first view point is looking north from Marbury Estates Drive off Gum Springs Road in Loudoun County. The existing right-of-way in this section contains two lattice structures averaging 122 feet tall. These will be replaced by a single monopole structure averaging 135 feet tall.

The next segment is about four miles long and runs from the Elk Lick substation to Bull Run substation. The view of this section looks south east down the right-of-way as it crosses Highway 29. This segment will primarily be characterized by a lattice structure averaging 117 feet tall being replaced by a monopole averaging 125 feet tall.

Our third segment is approximately 3.2 miles long and runs from the Bull Run substation to the Clifton substation. This view is looking Northwest from Val Morel Forest Road. This segment will replace a single lattice structure averaging 119 feet tall with a monopole averaging 129 feet tall.

The final segment stretches from Clifton substation to Ox substation and is approximately six miles long. Our final view is looking north from Wolf Run Shoals Road. The existing right-of-way contains a lattice structure that averages 119 feet tall which will be replaced by a monopole averaging 130 feet tall.

As part of this project, Dominion Energy is proposing to remove and retire several infrastructure assets along the route. 8.5 miles of line will be removed between Loudoun and Bull Run substations, which will reduce the number of structures in the corridor. The target completion date for this project is December 2024. Dominion will host two public open houses to gather community feedback in mid summer 2019 before filing the application with SCC in later summer.

At Dominion energy we're guided every day by a core set of values. To ensure projects are successful from start to finish. It is imperative that we work safely, execute our jobs ethically, strive for excellence, foster innovation by welcoming new ideas, and employ strong teamwork with our colleagues and in the communities we proudly serve.

Thank you for taking the time to learn about this important project. We are committed to finding the best solutions for the long-term needs of the customers we serve. For more information please visit our website at dominionenergy.com/l-ox or email us at powerline@dominionenergy.com

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