

Golden to Mars 500/230 kV Electric Transmission Project

1. Why is this project needed?

- a. Rapid growth in electrical demand in the high-tech sector, which includes data centers, has resulted in the need for new electric transmission infrastructure.

The project will complete a 500 kV loop through eastern Loudoun County, which is required by the regional grid organization (PJM) that oversees Dominion Energy, and will maintain reliability for all customers.

2. What is the timeline for this project?

- a. We anticipate submitting the project application to the Virginia State Corporation Commission (SCC) at the end of 2024 and receiving SCC approval in the third quarter of 2025. Construction would then run from the summer of 2026 until the summer of 2028.

3. What is the regulatory approval process for this project?

- a. The Dominion Energy project team will conduct meaningful public outreach in preparation for submitting an application to the Virginia State Corporation Commission (SCC) for a Certificate of Public Convenience and Necessity (CPCN) at the end of 2024.

The SCC is the state-level regulatory authority overseeing electric transmission projects in Virginia. They will review the application and select the route Dominion Energy will be permitted to construct for this project.

After receiving the CPCN for the project, the Dominion Energy project team will begin completing the local and other associated permitting processes before starting construction.

4. Can you build the transmission lines underground?

- a. Due to significant overhead routing constraints, Dominion Energy is considering undergrounding part of the Golden-Mars 500-230 kV Electric Transmission Project. However, this approach has risks and uncertainties, such as longer construction timelines, unfamiliar technology for a grid reliability project, and increased costs. A feasibility study is anticipated to be completed by late summer 2024 to determine if this hybrid overhead/underground route is viable.

5. What impact will this project have on my property value?

- a. We understand your concerns about the potential impact of an electric transmission line project on the value of your home. Property values can be influenced by various factors, and it's natural to be concerned about any potential effects.

While nearby construction could temporarily impact a home's value, it's important to remember that this effect is not permanent. Other significant factors, such as the location, the neighborhood, local amenities, and market trends, play important roles in determining a home's property value.

6. Are there any safety and health concerns regarding exposure to electromagnetic fields?

- a. Every item that generates, transmits, or uses electricity produces both electric and magnetic fields, otherwise known as EMF.

Since the late 1970s, scientists worldwide have conducted thousands of studies looking for relationships between EMF exposure and possible adverse health effects. None of these

organizations have found any causality between potential EMF exposures and long-term adverse health effects.

Although the scientific conclusions are reassuring, Dominion Energy sites and designs its facilities to mitigate any EMF emissions. We also include EMF calculations when filing an application for proposed electric facilities with the Virginia State Commission Corporation (SCC).

You can learn more about EMF online at DominionEnergy.com/EMF

7. What are the major considerations for routing this transmission line project?

- a. When looking at potential routes, we have evaluated collocating with existing 230 kV transmission lines and routing through industrial areas, especially north of the Dulles Greenway (Route 267), with existing and planned data center developments.

There are multiple constraints for this project, such as the FAA height restrictions near Dulles Airport and the NOAA weather radar height restrictions. Additionally, there are residential areas south of Dulles Greenway (Route 267), along Loudoun County Parkway, and west of Broad Run. In addition, we need to consider public lands, including federal (Dulles Airport, NOAA, State Department, and USPS) and local (Loudoun County Board of Supervisors, Parks, and Loudoun County Public Schools), as well as natural resources and forest lands, primarily along Broad Run.