

The Capital Grid Project: Champlain Substation

March 2023

At Pepco, our purpose is delivering safe, reliable, and affordable energy to our customers and communities in the District of Columbia and Maryland. We are committed to managing and maintaining the existing energy grid and planning for the future needs of our customers.

The Capital Grid Project promotes enhanced reliability and strengthens our energy grid.

Since we retired our power plants in the District, nearly all energy is imported from outside the city via radial or point-to-point transmission lines. Four passages of transmission lines are supplying energy to the Capital region, including the District of Columbia, and Prince George's and Montgomery counties. If any of the transmission lines lost power, it could lead to an outage of several days to several weeks.

Aging transmission and substation infrastructure poses risks to the energy grid, and we must protect and strengthen it. That is why we are implementing the Capital Grid Project, a major effort that will allow us to better serve our customers in the District and Maryland.

Capital Grid Project Benefits

The Capital Grid Project provides many long-term benefits to our customers across the Capital region.



Enhanced Service

New infrastructure that will reduce the strain on surrounding areas, improving service for customers



Stronger System

Enhancements that will lessen the impact and speed recovery from storms and other emergencies



Added Capacity

A more robust energy grid to handle energy needs, as the District experiences rapid residential and commercial development



Economic Support

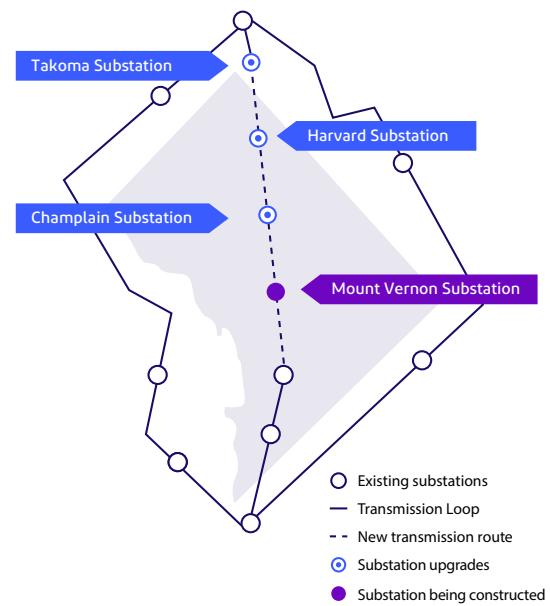
Increased opportunities for minority, women, veteran and disabled local businesses and contractors to support project work as we energize the diverse, local communities where we live and work

The Capital Grid Project is a forward-looking plan that will:

- Upgrade three existing substations in the District and Maryland
- Construct one new substation to serve areas projected to see high growth
- Build a new 10-mile underground transmission line to connect the substations and create a networked system through which we deliver electricity to our customers

Solar energy capacity for customers will expand.

There is growing interest in customer-generated power such as rooftop solar. At Pepco, we continue to support this interest by advancing technologies that empower customers, promote sustainable solutions, and drive a 21st century economy. The project will expand the transmission network, modernize the energy grid, and increase the grid's capacity. Adding capacity will allow the grid to accommodate more customer-generated power in the future.



The upgraded Champlain Substation will strengthen the energy grid in the Capital region and provide opportunities for future enhancements.

Champlain Substation Overview

A substation is a facility that reduces high-voltage electricity to lower voltages, which is ultimately used to provide power to our customers. As part of the Capital Grid Project, the Champlain Substation will be rebuilt to upgrade and replace aging equipment and infrastructure. This substation was built in 1930, and while it has served the area well for more than 85 years, some of the equipment is approaching the end of its intended service life.

Project work will include:

- Installing high capacity transformers and feeders
- Rebuilding part of the building to meet new and revised building codes
- Connecting the substation to the new networked system
- Improving the substation exterior, reflecting community input and preserving historical significance

Champlain Substation Schedule

Construction of the Capital Grid Project has been reviewed and approved by the Public Service Commission of the District of Columbia and the District of Columbia Board of Zoning Adjustment. Because this substation has been nominated for historic designation, it was also reviewed and approved by the Historic Preservation Review Board. We expect to start upgrading this substation in 2025 and to complete it by 2029. We aim to complete the work with as little disruption as possible. We will notify residents and businesses near the project area before work occurs.

Safety is a Top Priority

During all phases of the Champlain Substation upgrade, our highest priority is the safety of our customers, the community, our employees, and the environment. We incorporated safety in the technical design of our equipment, our energy grid, and our substation. In addition, the layout of our exterior landscape incorporates security features to protect our system.

We Value Community Participation

We welcome the opportunity to work with residents and business owners to gather public feedback and input. We are committed to keeping customers informed every step of the way through the project webpage, community meetings, and social media. To find a community meeting in your neighborhood, visit www.pepco.com/CapitalGrid.



Current Champlain Substation



Champlain Substation Rendering

Need more information?

For additional information about the Capital Grid Project, please call **1-833-CAP-GRID (277-4743)**, email CapitalGrid@pepco.com, or visit our website at pepco.com/CapitalGrid

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