

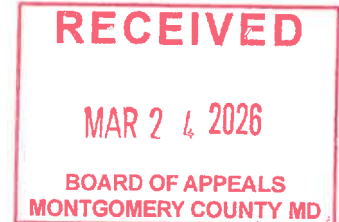


**pepco**<sup>SM</sup>  
AN EXELON COMPANY

Pepco  
701 Ninth Street NW  
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443.812.1475

March 13, 2026

Mr. Jason K. Satori  
Countywide Planning and Policy Acting Chief  
The Maryland-National Capital Park and Planning Commission  
2425 Reedie Drive, 14<sup>th</sup> Floor  
Wheaton, Maryland 20902



and

Ms. Barbara Jay  
Executive Director  
Board of Appeals for Montgomery County  
100 Maryland Avenue, Room 217  
Rockville, Maryland 20850

**RE: CBA Cases No. 213 (Brighton Sub. No. 66)  
and 214 (Mt. Airy/Brighton Transmission Line)**

Dear Mr. Satori and Ms. Jay:

In 1976 the Montgomery County Board of Appeals granted this Company a zoning special exception to construct and maintain the above referenced substation and transmission line in Montgomery County. In accordance with the provisions of Condition "C" of the Board's Resolution of July 15, 1976 the Company is to submit annually to your Commission a copy of its ten and twenty-year plans for electric service along with the adjoining and confronting property owners for Pepco's Brighton Substation No. 66 to Montgomery County. In addition, as requested by Ms. Dolan, attached is a map showing the general location of Pepco Substations located in Montgomery County. Enclosed are four copies of the subject plan in compliance with the Board of Appeals resolution.

Please do not hesitate to call me if you have any questions.

Regards,

Eric L. Yeh,  
Sr Mgr, Transmission Reinforcement

Enclosure (4 complete sets)

cc: Mr. Stan Edwards  
Division Chief Environmental Policy & Compliance  
Department of Environmental Protection  
2425 Reddie Drive  
Wheaton, Maryland 20902

**2025 Montgomery County Peak Demand Forecast**  
**(MW)**

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<b>Year</b>	<b>Peak</b>
2017	1802
2018	1900
2019	1838
2020	1733
2021	1735
2022	1694
2023	1707
2024	1781
2025	1735
2026	1758
2027	1764
2028	1768
2029	1774
2030	1779
2031	1786
2032	1794
2033	1801
2034	1810
2035	1821
2036	1837
2037	1852
2038	1865
2039	1879
2040	1890
2041	1907
2042	1923
2043	1938
2044	1949
2045	1963
2046	1977

## TRANSMISSION PLAN - MONTGOMERY COUNTY

The attached tables show the proposed transmission additions for the 2025-2034 period and the 2035-2044 period.

### 500kV

Pepco has a 500kV double-circuit steel pole line located on a right-of-way that extends from the Brighton Substation in Montgomery County to the vicinity of Mt. Airy in Frederick County, and a 500kV single-circuit tower-and-pole combination line from the Brighton Substation to the vicinity of Baltimore Gas and Electric Company's High Ridge Substation, in Howard County. These 500kV circuits are part of a 500kV loop around the Metropolitan Washington Area.

Pepco has a plan to construct a new 500 kV transmission circuit along an existing right-of-way that currently accommodates a 230 kV circuit. The project will result in a double-circuit transmission line configuration, consisting of both a 500 kV and a 230 kV circuit, extending from the Potomac River crossing near Point of Rocks to the Dickerson area. This approach leverages existing transmission infrastructure while enhancing system capacity and reliability.

Pepco plans to install a new 500/230 kV substation at the Dickerson site, equipped with two 500/230 kV transformers, by June 2032. To support integration of the new substation into the existing transmission network, two new 230 kV underground feeders will also be installed between the new Dickerson substation and Dickerson H by June 2032. These upgrades will strengthen system reliability and provide additional capacity to meet long-term load and operational needs.

Pepco presently has no documented plans for additional 500kV right-of-way in Montgomery County for the next twenty years.

### 230kV

Pepco has a 230kV right-of-way that extends from GenOn's Dickerson Generating Plant to the Quince Orchard Substation. From Quince Orchard the right-of-way extends across Montgomery County to the Burtonsville Substation in Prince George's County.

Two separate rights-of-way, Mt. Zion to Norbeck and Quince Orchard to Bells Mill Road, extend from this right-of-way into the county to serve load centers in the Wheaton-Rossmoor Area and the Rockville-Bethesda Area, respectively.

Pepco presently has no documented plans for additional 230kV right-of-way in Montgomery County for the next twenty years.

PEPCO TRANSMISSION SYSTEM  
MONTGOMERY COUNTY SERVICE AREA

TEN-YEAR PLAN (2025-2034)

- Replace one 230/69kV, 224 MVA transformer at Bells Mill Road Sub. 121 with a 280 MVA transformer by June 2028.
- Replace one 230/138kV, 150 MVA transformer at Bells Mill Road Sub. 121 with a 224 MVA by June 2027.
- Replace one 230/34kV, 75 MVA transformer at Bells Mill Road Sub. 121 with a 112 MVA transformer by June 2029.
- Install fourth 230/34 kV, 75 MVA transformer at Bells Mill Road Sub. 121 by June 2030.
- Add a 350 MVAR STATCOM at Brighton Sub. 66 by Dec 2028.
- Install a new 500kV circuit from Rocky Point to Aspen via Dickerson by June 2030.
- Rebuild and relocate feeder 23111 from Dickerson D to Dickerson H by Dec 2030.
- Install a new 500/230kV substation at Dickerson with two 500/230kV transformers by June 2032.
- Install two new 230kV underground feeders from the new Dickerson substation to Dickerson H by June 2032.
- Relocate feeder 23035 from Dickerson D to Dickerson H by June 2032.
- Replace one 230/138kV, 150 MVA transformer at Bells Mill Road Sub. 121 with a 224 MVA by June 2032

10 TO 20 YEAR PLAN (2035-2044)

No work identified.

NOTE: All circuit installations include terminations and breakers as required.

## **ELECTRIC SYSTEM REQUIREMENTS** **DISTRIBUTION PLANS TO SERVICE ELECTRIC LOAD CENTERS**

### **2025-2034**

Montgomery County is currently served by 36 distribution substations at 69/13.8kV or 34.5/13.8kV. To serve the forecasted demand in Montgomery County, PEPCO plans to:

- Complete installation of the White Flint 69/13.8kV distribution substation by June 2026

### **Beyond 2034**

In the years following the current forecast period, Pepco will continue to monitor the potential need for:

- Replacement of transformers at Woodmont substation for additional capacity
- Third transformer installation at Longwood substation for additional capacity
- Fairland substation upgrades with large customer growth

Ten-year forecasts are completed yearly, allowing for revision of projections and potential capacity expansion requirements.

