

August 27, 2025

VIA ELECTRONIC MAIL

Mr. Matthew Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120

***Re: FirstEnergy Pennsylvania Electric Company Capital Investment Plan Report for
the 2025-2029 Planning Period***

Dear Secretary Homsher:

In accordance with Chapter 73 of the Rules and Regulations of the Pennsylvania Public Utility Commission, 52 Pa. Code § 73.7, FirstEnergy Pennsylvania Electric Company is submitting a copy of its Capital Investment Plan Report for the 2025-2029 planning period.

If you have any questions regarding the enclosed documents, please contact me.

Sincerely,



Mark S. Kehl
Manager, Rates & Regulatory Affairs-PA
610-921-6063

cc: Certificate of Service
Paul Diskin - Bureau of Technical Utility Services (pdiskin@pa.gov)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

FirstEnergy Pennsylvania Electric Company's Capital Investment Plan Report : **Docket No.**
:

CERTIFICATE OF SERVICE

I hereby certify and affirm that I have on this day served a copy of the foregoing documents of FirstEnergy Pennsylvania Electric Company on the following persons in the matter specified in accordance with the requirements of 52 Pa. Code § 73.7(c).

VIA ELECTRONIC MAIL

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Date: August 27, 2025



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FirstEnergy Pennsylvania Electric Company

Capital Investment Plan Report

For the Period 2025-2029

Overview of Plans for Major Projects

Five projects, 1) North Hanover Area new substation, 2) Conewago Creek new substation, 3) Churchville transformer upgrade, 4) Orrtanna - Lincoln area new substation, and 5) Uniontown new service center meet the monetary requirements for reporting pursuant to 52 Pa. Code Chapter 73, Section 73.2 as being “in excess of 1% of the undepreciated original cost of the utility’s total plant in service or \$10 million, whichever is less”: that will begin during the 2025-2029 planning period. The first four projects are all located in the Met-Ed rate district, while the Uniontown service center is in West Penn rate district.

Further details of the five projects are provided in the Discussion of Projects section hereunder.

Discussion of Projects

1. North Hanover Area New Substation

Project Summary

Construct a new 115 kV - 13.2 kV 22 MVA three circuit mod substation including the physical space and infrastructure to add a second 115 kV – 13.2 kV 22 MVA three circuit transformer in the future.

Total project costs by 2029 are estimated to be \$17,167,578. (2025: \$1,588,033; 2026: \$6,717,477; 2027: \$8,862,068; 2029: \$0).

Explanation of Need

This project will address thermal overload issues caused by rapid growth and limited electrical capacity in the area. This will provide electrical capacity to serve future load growth due to the construction of the new Eisenhower Highway to the west of North Hanover substation.

Alternatives Considered

Transfer load off existing North Hanover bank #1 circuits is not an option, there is no electrical capacity to transfer load. Utilize electrical capacity provided by the recently constructed Eisenhower Substation (In Service Date March 2023), this would reduce flexibility and limit capacity near Eisenhower. Upgrade North Hanover bank #1. There are 13 distribution circuits exiting the substation, making additional circuit exits is not practical to serve future load growth to the west.

2. Conewago Creek New Substation

Project Summary

Construct a new 115 kV - 13.2 kV 35 MVA three circuit mod substation. The location is approximately 1.75 miles north of Zionsview Substation to the west of the 115 kV transmission line. Reconfigure the distribution system to move load from Zionsview and Raintree Substations to the new mod substation.

Total project costs by 2029 are estimated to be \$13,801,290. (2025: \$901,132; 2026: \$3,989,112; 2027: \$4,204,339; 2028: \$4,706,707; 2029: \$0).

Explanation of Need

This project will relieve thermal overload planning criteria violations in an area of high load growth and limited electrical capacity. Easy access to I-83, Pennsylvania Department of Transportation road improvement projects in surrounding areas and available farmland has made this an attractive area for developers.

Alternatives Considered

Load transfers were considered but substations in the area have become constrained due to previous load transfers to serve new customer loads. Other new mod substation locations, these solutions require long 115 kV line extensions at a high cost making this alternative impractical. Requiring customers to take a transmission connection is not a preferred option because developers request distribution connections for new load comprising of multiple buildings.

3. Churchville Transformer Upgrade

Project Summary

Replace the 34.5 kV - 13.2 kV, 5.6 MVA with Load Tap Changer transformer with a 34.5 kV - 13.2 kV, 14 MVA with Load Tap Changer transformer and upgrade the existing Remote Terminal Unit to include metering of the transformer and circuits.

Total project costs by 2029 are estimated to be \$14,342,540. (2025: \$8,191,844; 2026: \$5,351,032; 2027: \$799,664; 2028: \$0; 2029: \$0).

Explanation of Need

This project will replace the 1968 Churchville 34.5 - 13.2 kV, 5.6 MVA Bk #1 to relieve thermal overload violations.

Alternatives Considered

Utilization of load transfers and the limited ties to the adjacent substations creates additional reliability exposure and would accelerate planning criteria violations at those substations.

4. Orrtanna - Lincoln Area New Substation

Project Summary

Construct a new 115 kV - 13.2 kV 22 MVA three circuit mod substation in the Orrtanna - Lincoln area.

Total project costs by 2029 are estimated to be \$13,434,751. (2025: \$1,101,352; 2026: \$3,712,880; 2027: \$3,913,812; 2028: \$4,706,707; 2029: \$0).

Explanation of Need

This project will address thermal overload issues caused by rapid growth and limited electrical capacity in two different areas. Load growth from AEC Gettysburg delivery point and available farmland in the area are attracting developers and increasing demand on the network.

Alternatives Considered

Load transfers are very limited in this area. Upgrading the Orrtanna bank #1 C.T. does not provide load relief at Lincoln. Increasing electrical capacity at Lincoln does not improve flexibility to transfer load during outages or relieve the Orrtanna overload.

5. IF-WP-000222: WP-Uniontown Construct New Service Center

Project Summary – purchase property and build a new facility to replace the currently leased Uniontown service center.

Total project costs by 2029 are estimated to be \$23,007,860. (2026: \$4,818,400; 2027: \$10,961,860; 2028: \$7,227,600; 2029: \$0).

Explanation for Need – the existing facility is too small to properly support the operations personnel, the materials and equipment. The current facility is located within a high traffic shopping plaza area. This results in safety concerns for FirstEnergy employee vehicle accidents. It is difficult to navigate the public traffic when pulling utility poles and trailers behind large company trucks. We currently lease the Uniontown facility which is an O&M expense. The lease only covers repairs to the sewage line, all other expenses at the facility are the responsibility of FirstEnergy.

Alternatives Considered – lease a different facility in the Uniontown area. Real Estate researched available alternative locations in the past but did not find options to properly support operations. Remaining in the current facility is another option but this impacts operations and presents safety concerns with the high traffic shopping plaza being adjacent to the service center. Material and equipment storage would continue to be an issue as well.