

PPL 2026

Submission of Supplemental Projects for
Inclusion in the Local Plan



PPL Transmission Zone M-3 Process Rutherford, PA

Need Number: PPL-2025-0001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Previously Presented: Need Meeting 02/13/2025

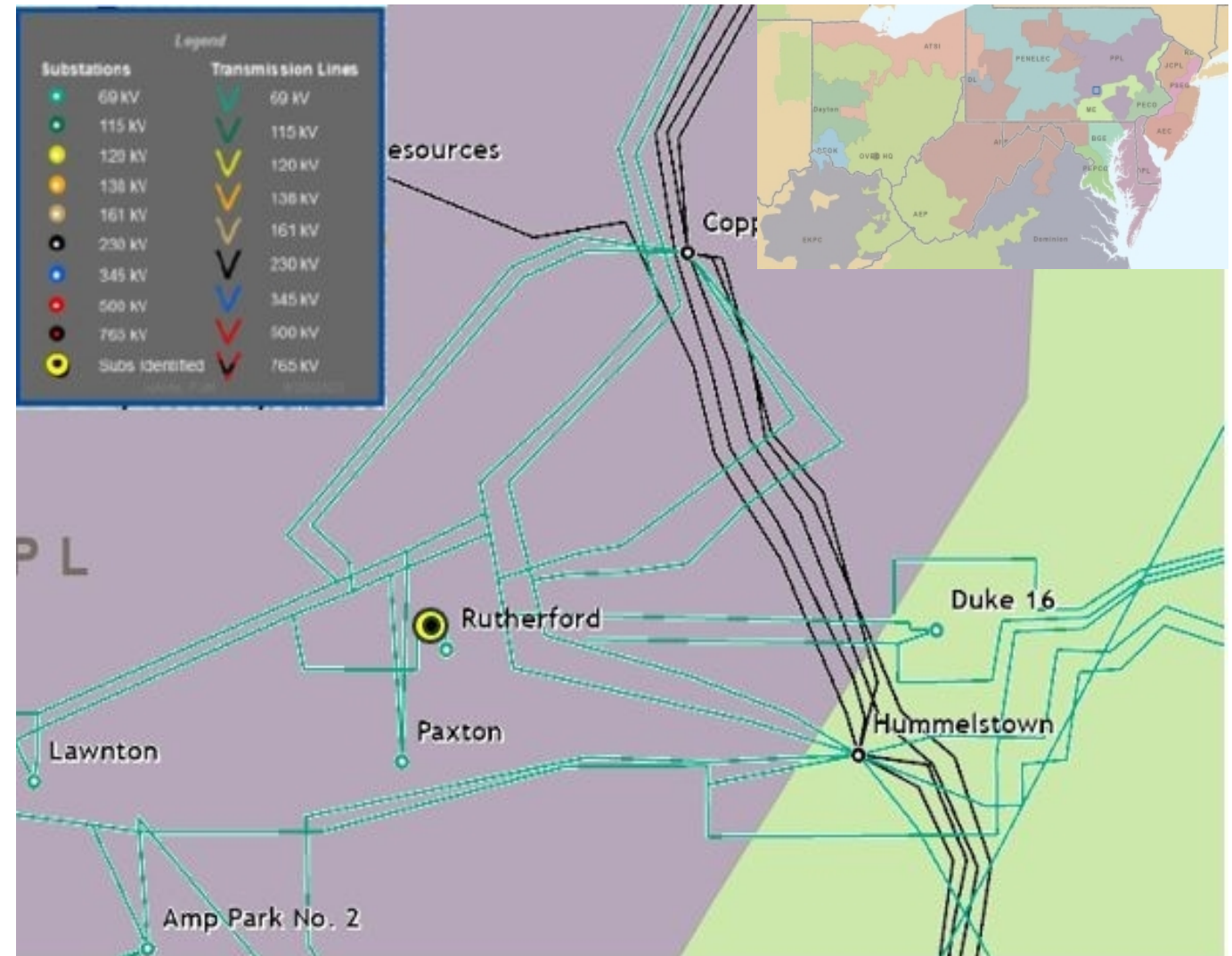
Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

2025 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to energize the on-site spare transformer at Rutherford 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 5/2026.





PPL Transmission Zone M-3 Process Rutherford, PA

Need number(s): PPL-2025-0001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Proposed Solution:

Copperstone-Harrisburg 2: Install loops to tap the existing Copperstone-Harrisburg 2 69kV line to interconnect the spare transformer to Rutherford distribution substation. Build new loops using 556 ACSR conductor.. Estimated Cost: \$0.5 M (s3739.1)

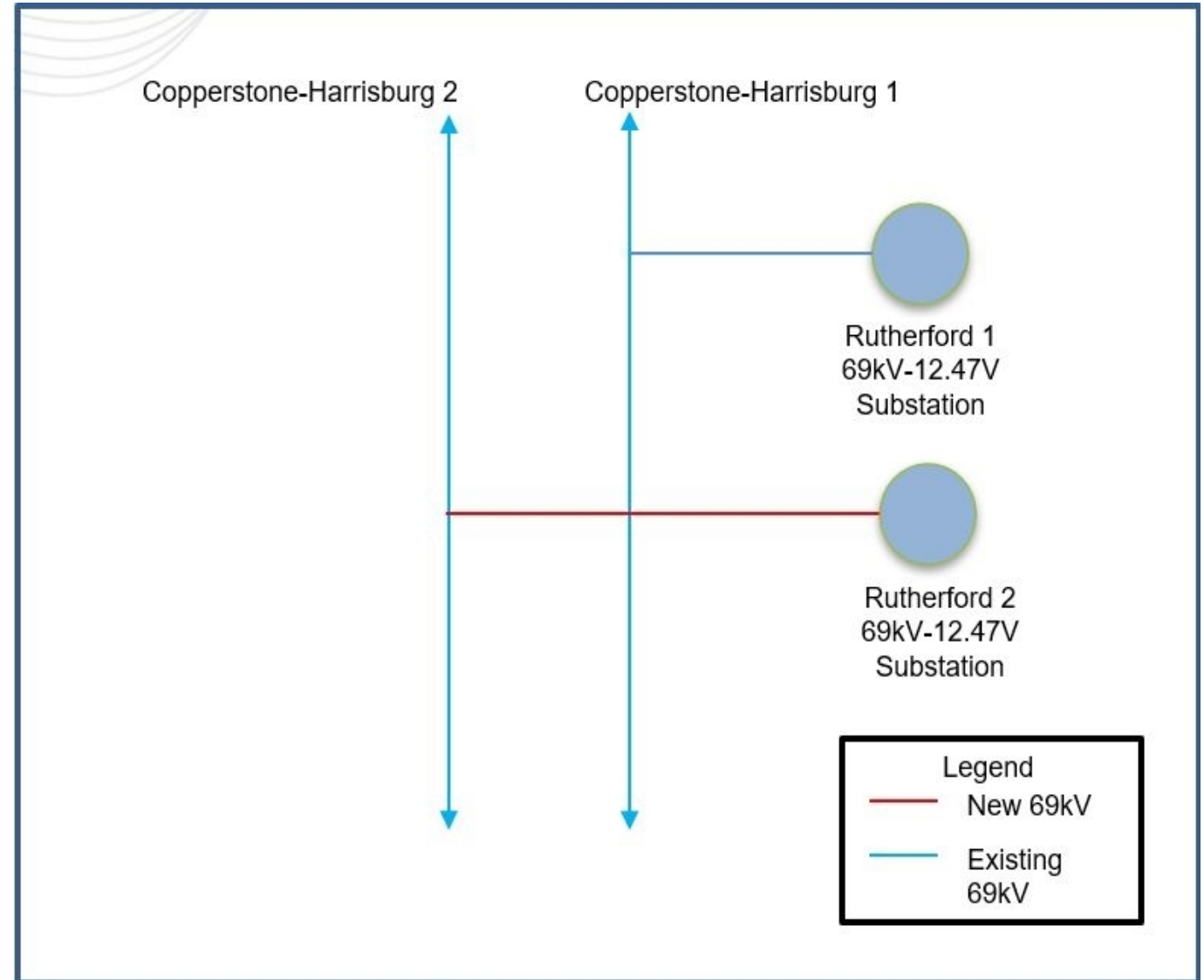
Transmission Cost Estimate: \$0.5 M

Alternatives Considered:

No feasible alternatives

Projected In-Service: 05/30/2027

Project Status: Conceptual



Need Number: PPL-2019-0004

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Previously Presented: Need Meeting 06/12/2025, 02/22/2019

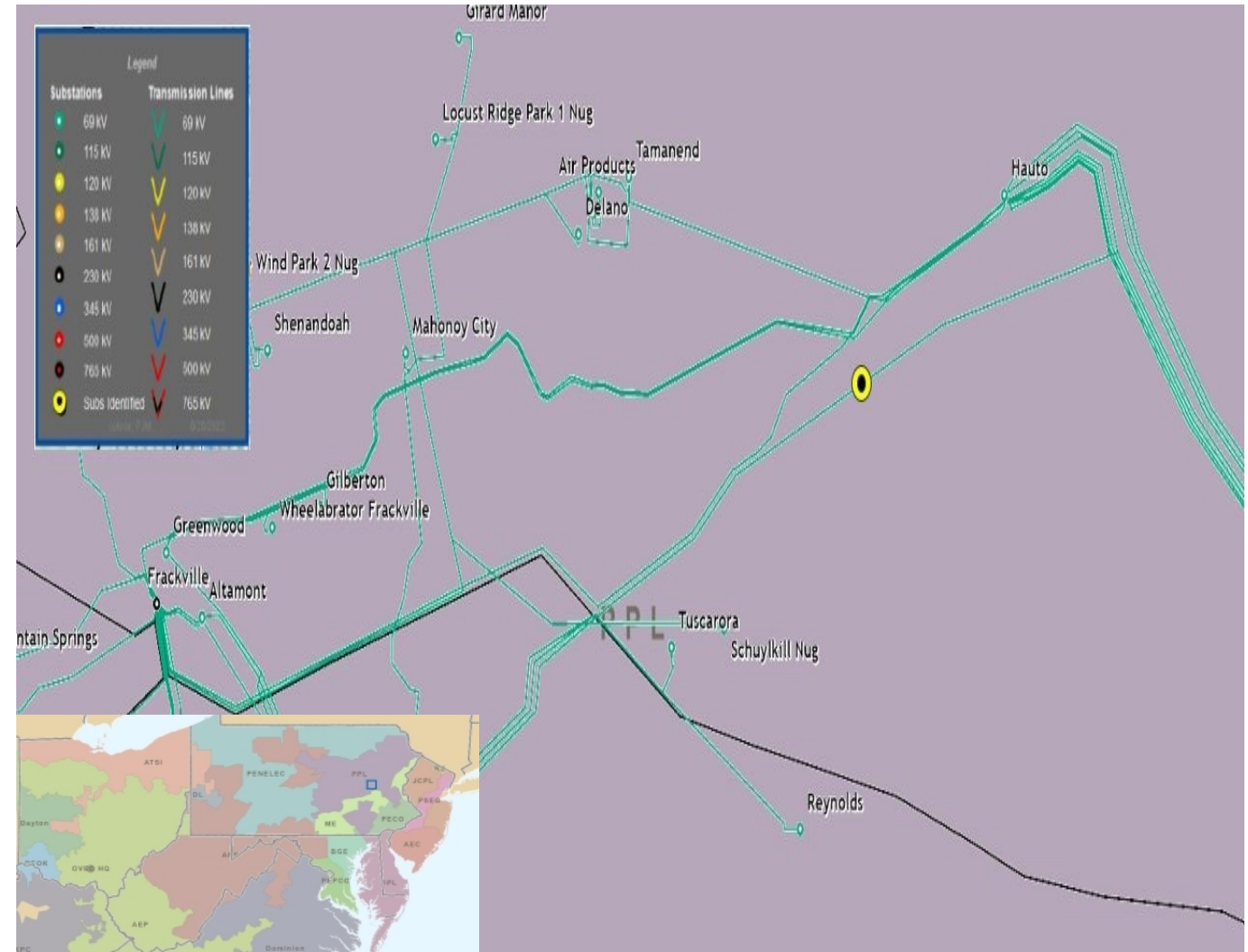
Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

The Hauto-Frackville #1 69kV line is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1923. The line consists of 193 vintage wood poles, 27 towers, and 92 steel poles. The majority of the line is 336 ACSR conductor which was installed in 1967.





PPL Transmission Zone M-3 Process Frackville, PA

Need number(s): PPL-2019-0004

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Proposed Solution:

Frackville-Greenwood 69kV (Formerly Hauto-Frackville 1): Rebuild 5 miles of the Frackville-Greenwood and Frackville-Orwigsburg 1 lines as double circuit 69kV. Rebuild 13 miles of the Frackville-Greenwood line as a single circuit 69kV.. Estimated Cost: \$45 M (s3740.1)

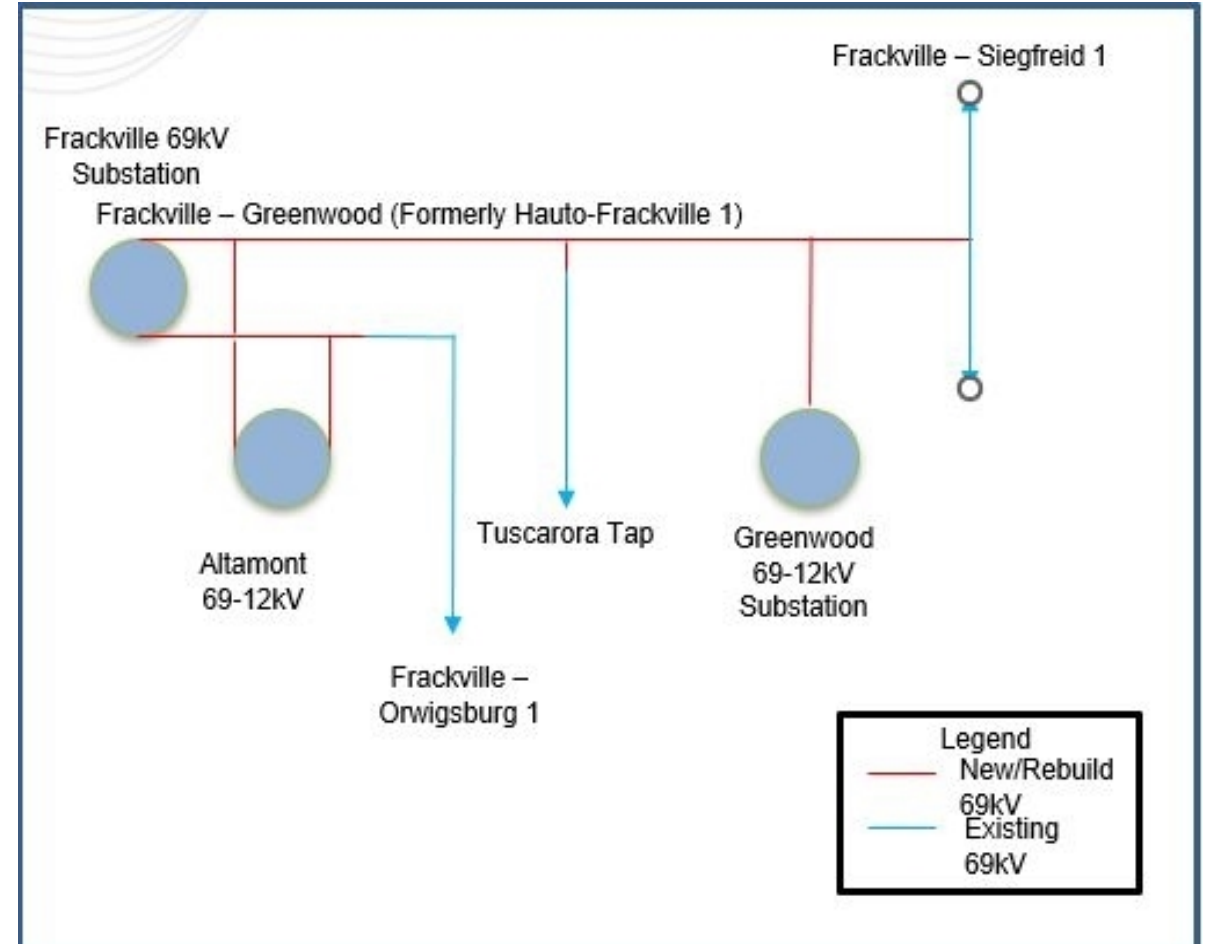
Transmission Cost Estimate: \$45 M

Alternatives Considered:

No feasible alternatives.

Projected In-Service: 06/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Mount Carmel, PA

Need Number: PPL-2025-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Previously Presented: Need Meeting 06/12/2025

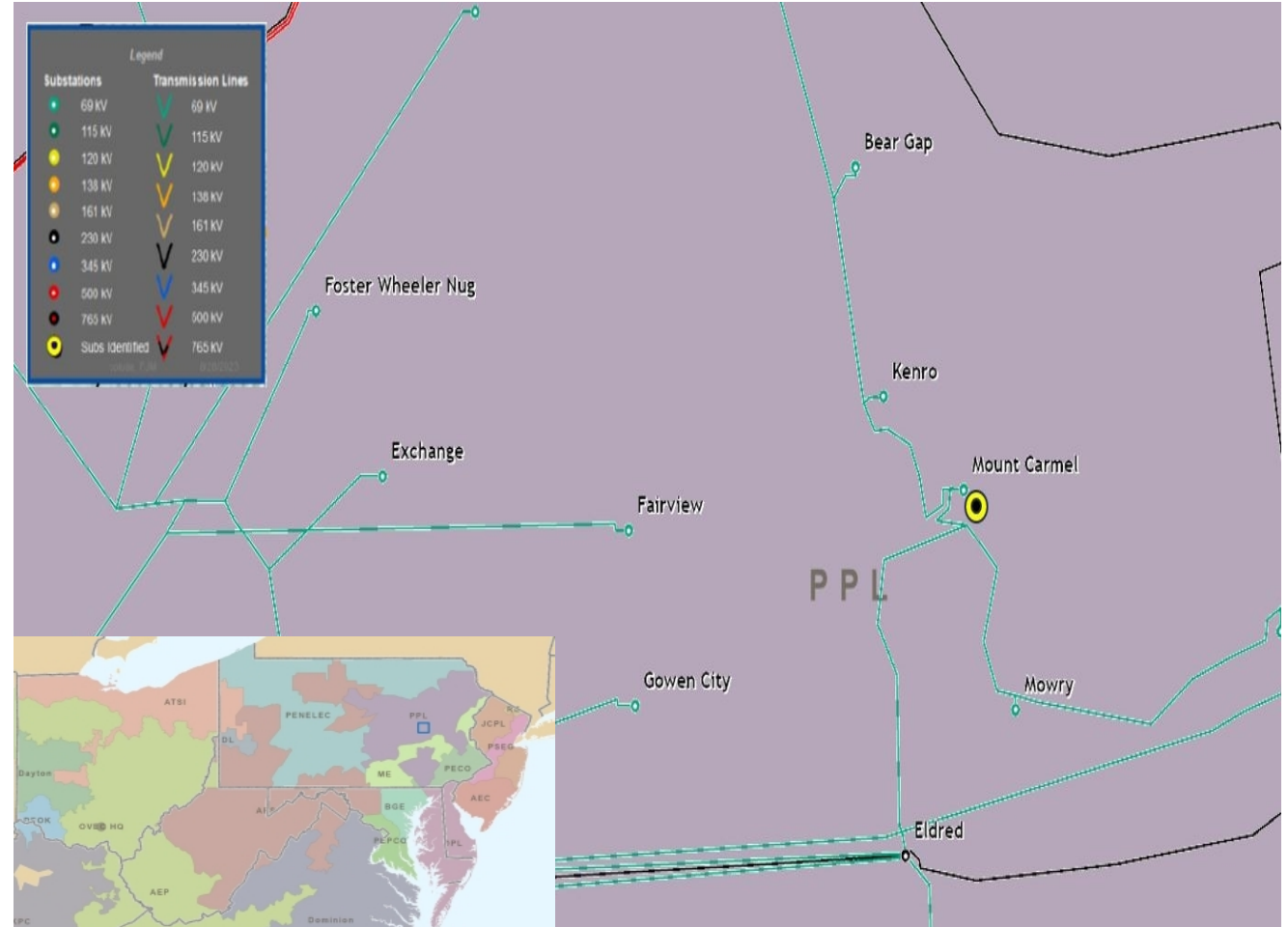
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 69kV transmission line in Mt Carmel, PA. The load is approximately 4MVA.



Need number(s): PPL-2025-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Proposed Solution:

Blaschak 69kV Tap: Extend a new circuit 69kV tap from the existing Eldred - Cleveland 69kV line to interconnect the new Customer substation. Build 0.1 miles of new 69kV single circuit line using 556 ACSR conductor. Estimated Cost: \$0.9 M (s3738.1)

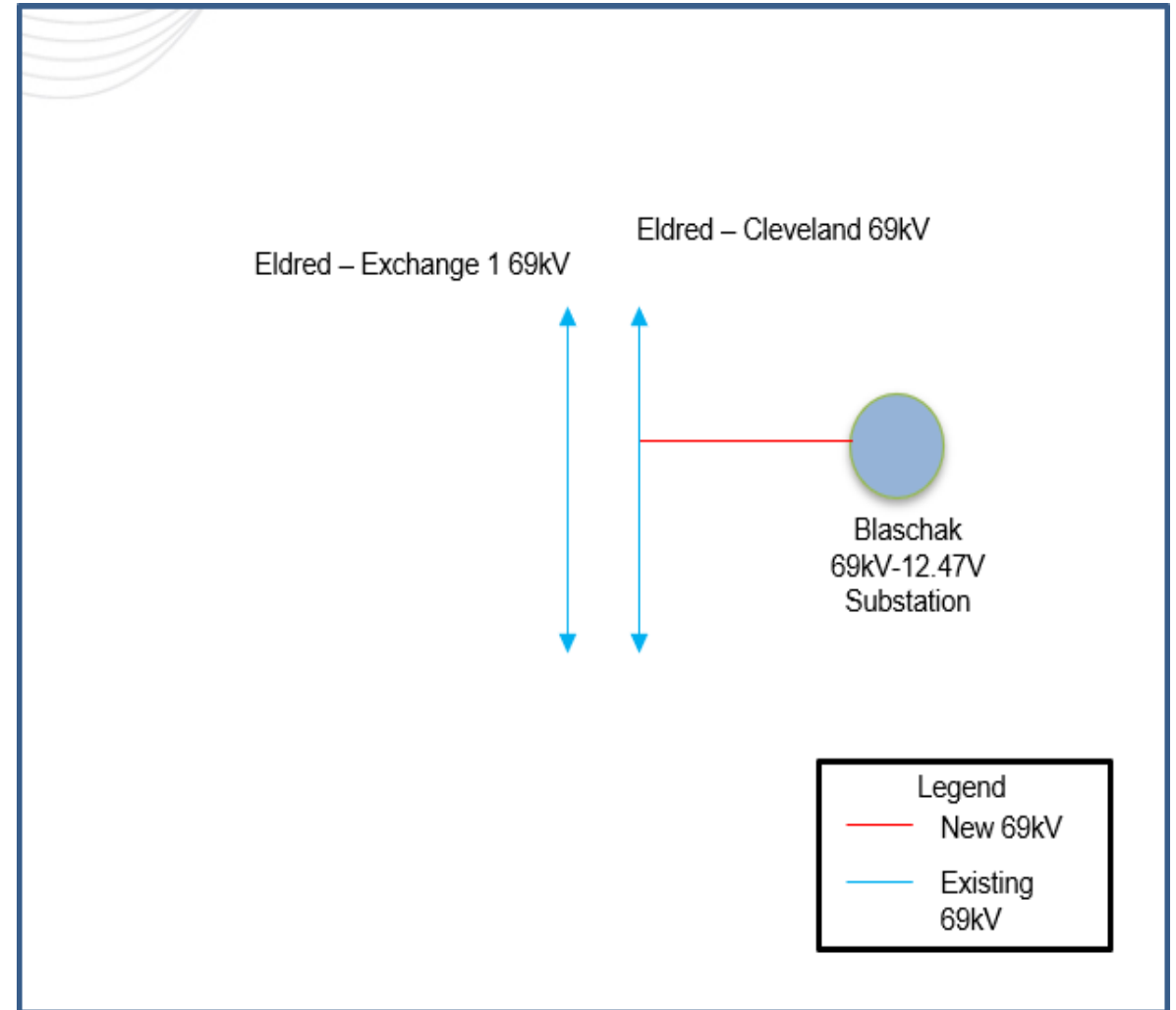
Transmission Cost Estimate: \$0.9 M

Alternatives Considered:

No feasible alternatives since customers site is adjacent to Eldred-Cleveland 69kV transmission line.

Projected In-Service: 12/10/2026

Project Status: Conceptual





PPL Transmission Zone M-3 Process Girardville, PA

Need Number: PPL-2025-0016

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Previously Presented: Need Meeting 08/14/2025

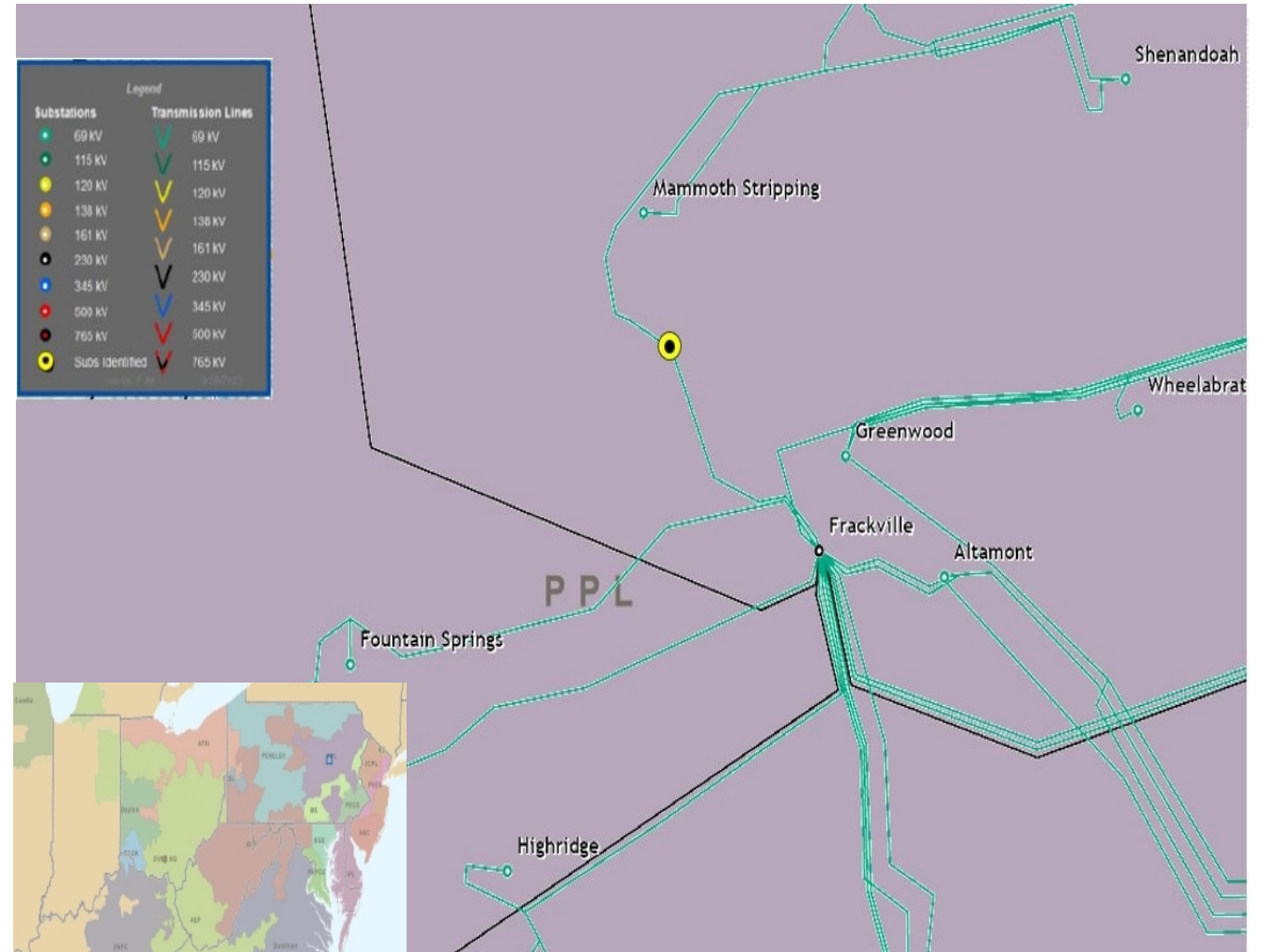
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 69kV transmission line in Girardville, PA. The load is approximately 2MVA.





PPL Transmission Zone M-3 Process Girardville, PA

Need number(s): PPL-2025-0016

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 01/12/2026

Proposed Solution:

Frackville-Siegfried 2: Extend a new circuit 69kV tap from the existing Frackville-Siegfried 2 69kV line to interconnect the new Customer substation. Build 0.1 miles of new 69kV single circuit line using 556 ACSR conductor. Initial loading of ~2MVA. Estimated Cost: \$0.7 M (\$3741.1)

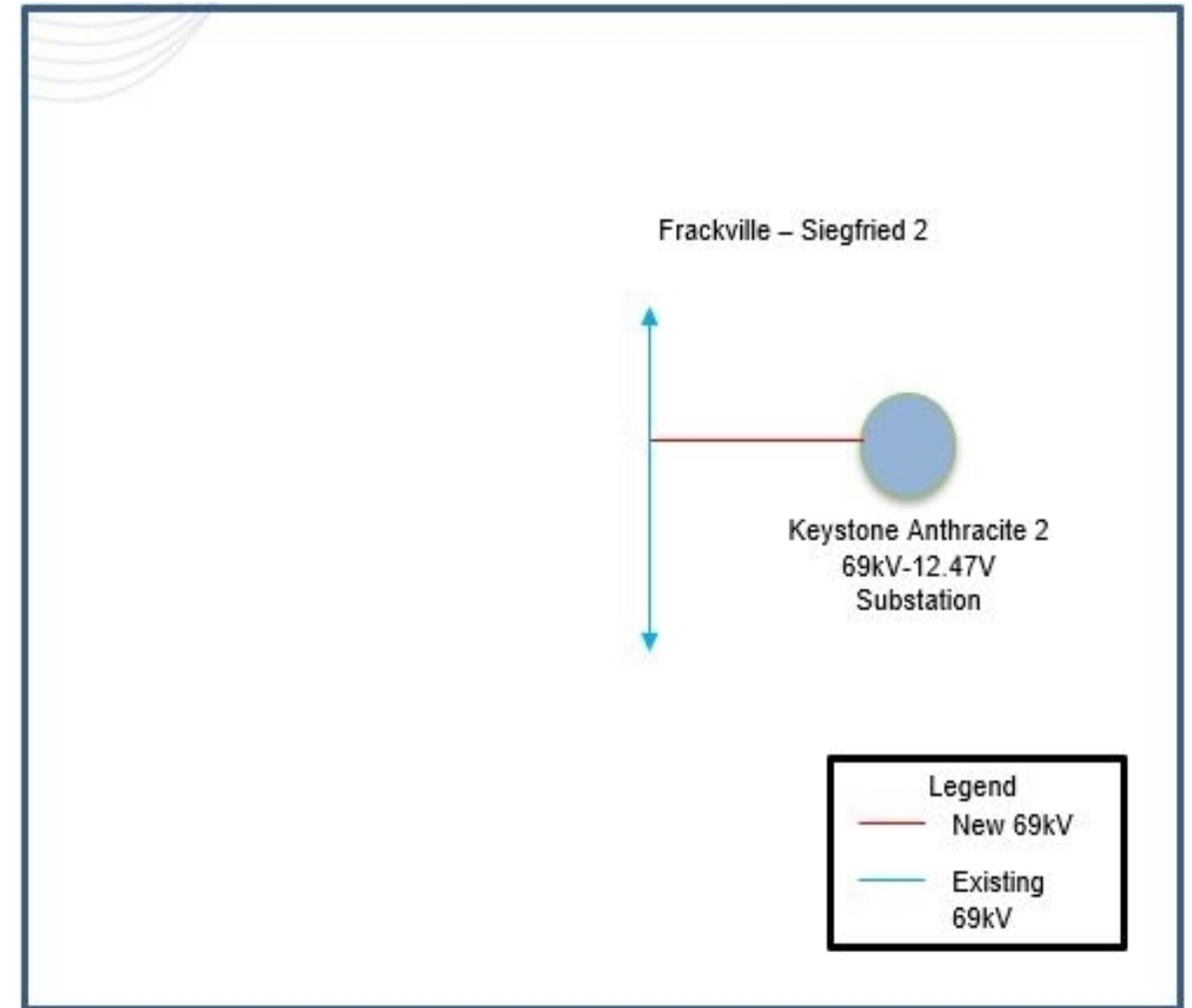
Transmission Cost Estimate: \$0.7 M

Alternatives Considered:

No feasible alternatives

Projected In-Service: 02/28/2027

Project Status: Conceptual



Need Number: PPL-2019-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 02/26/2026

Previously Presented: Need Meeting 07/17/2025, 02/22/2019

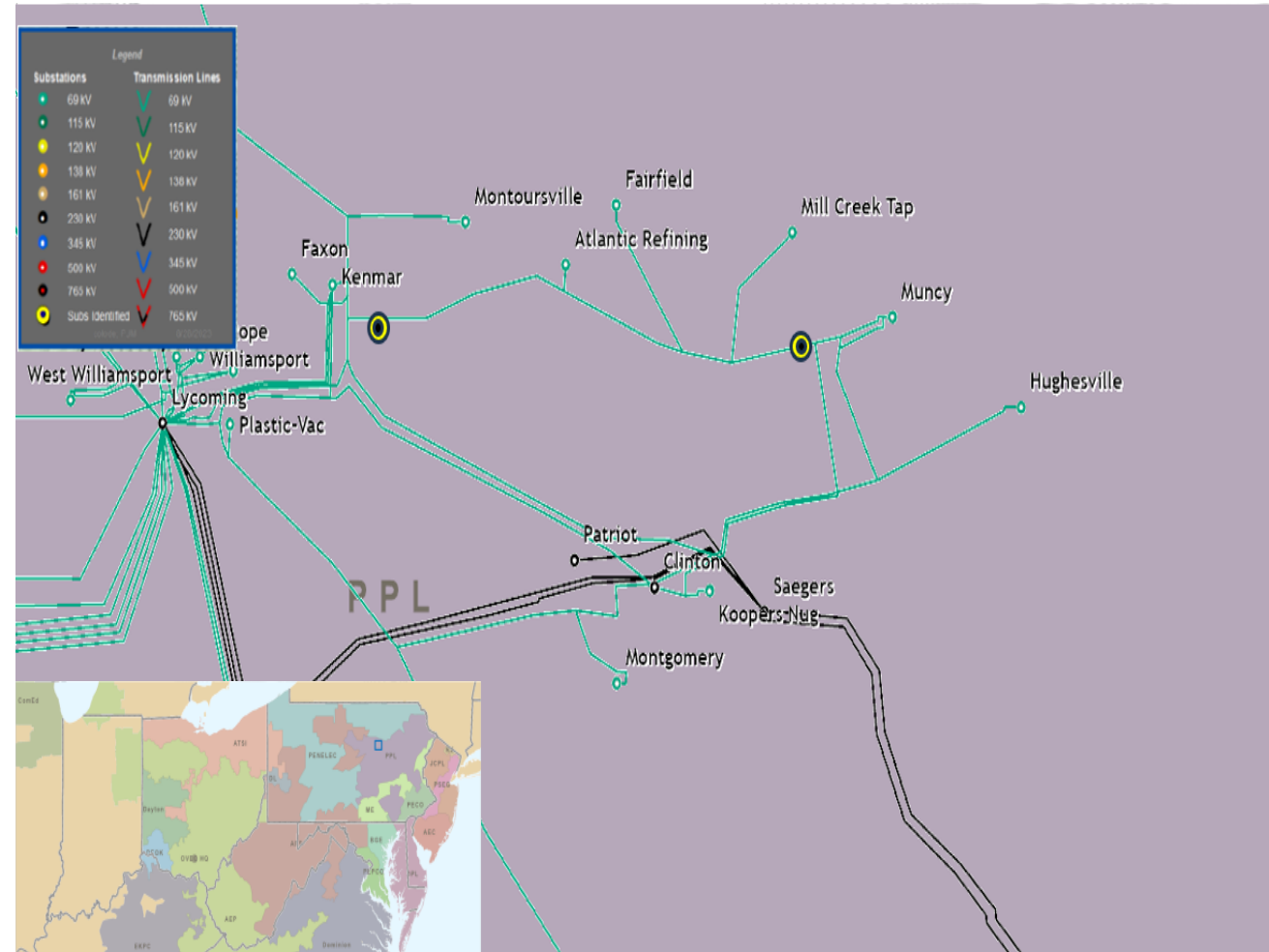
Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

The Lycoming-Muncy 2 Tie 69kV line is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1954. The line consists of 120 vintage wood poles, 2 towers, and 102 steel poles. The line is comprised of #4/0 ACSR conductor, which was installed in 1954.



Need number(s): PPL-2019-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 02/26/2026

Proposed Solution:

Clinton-Lycoming 2 Muncy Tie: Rebuild 9.6 miles of the Lycoming 2-Muncy line as single circuit-future double 69kV line.. Estimated Cost: \$30 M (s3781.1)

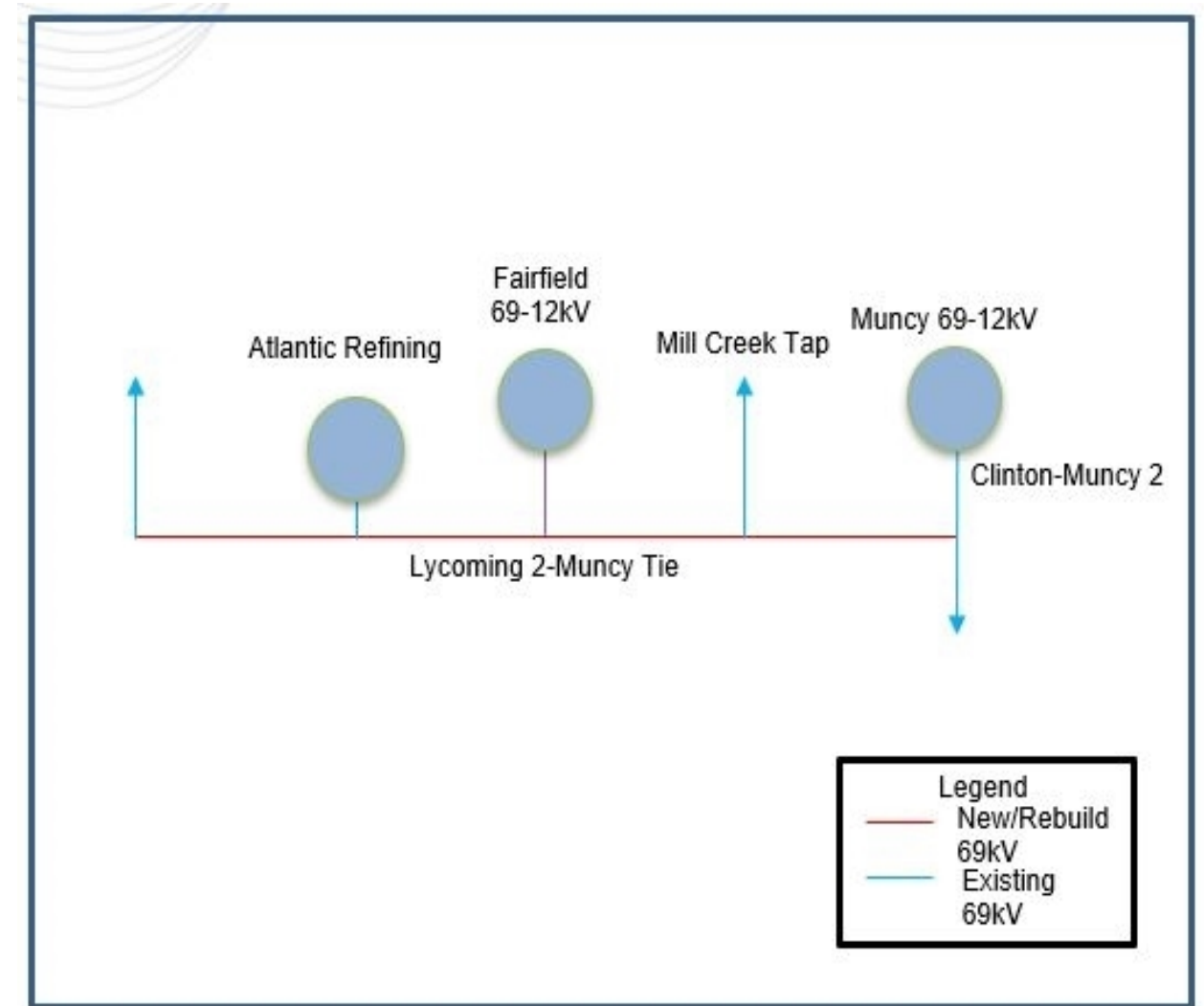
Transmission Cost Estimate: \$30 M

Alternatives Considered:

N/A

Projected In-Service: 12/31/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Harwood, PA

Need Number: PPL-2024-0003

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 06/04/2024 Solution Meeting 08/06/2024

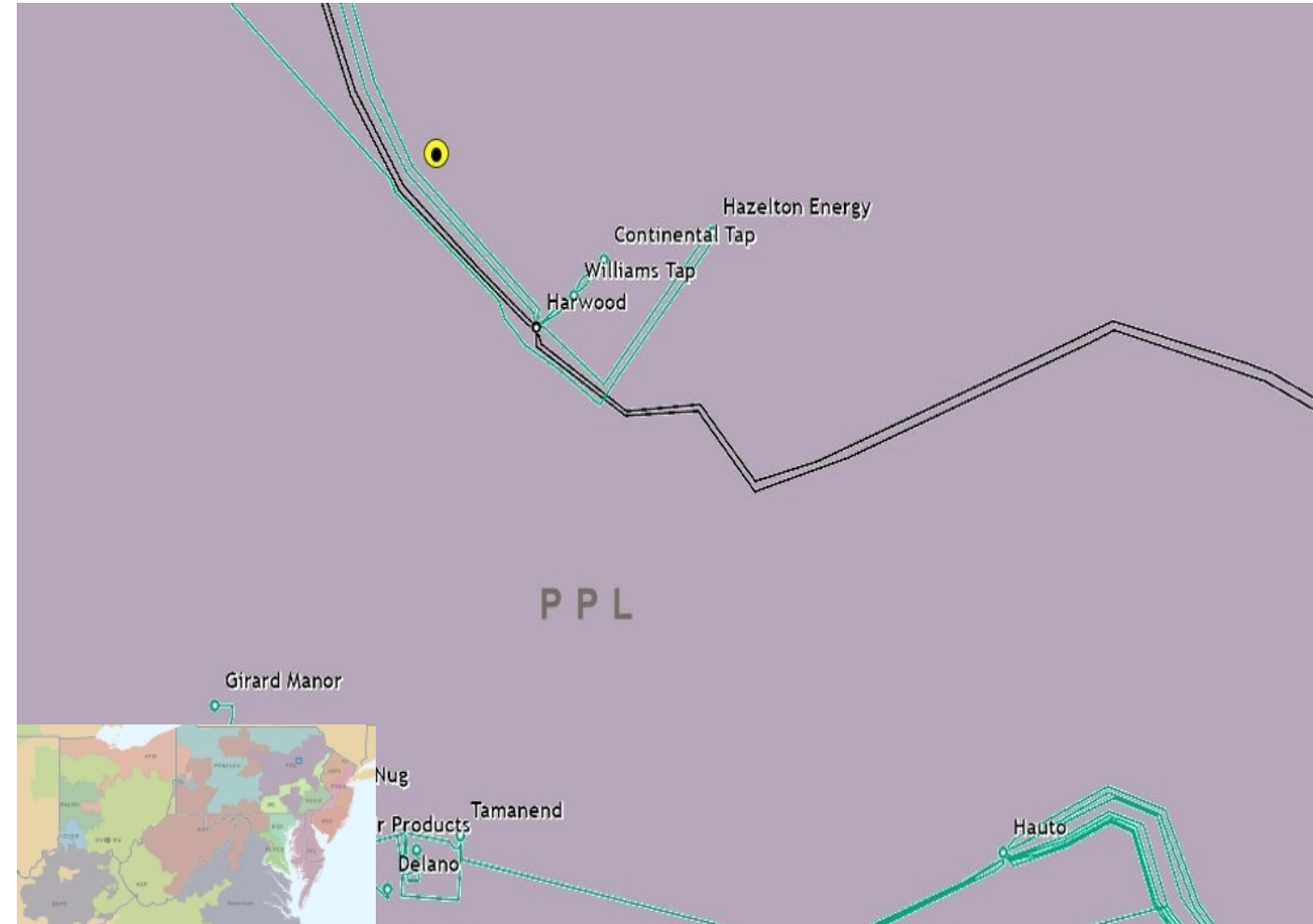
Project Driver: Customer Service

Specific Assumption References:

PPL 2024 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Hazleton, PA. The total facility load is approximately 1,980 MW (2033). The requested in-service date is 05/2026. Initial In-Service 2026 Load: 240MW Projected 2028 Load: 720 MW Projected 2031 Load: 1,440 MW





PPL Transmission Zone M-3 Process Harwood, PA

Need number(s): PPL-2024-0003

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Proposed Solution:

Tomhicken 230kV Switchyard: Install a six bay BAAH 230kV switchyard with a 125MVAR Capacitor bank.. Estimated Cost: \$45 M (\$3528.1)

Nescopeck 230kV Switchyard: Install a new three bay BAAH 230kV switchyard.. Estimated Cost: \$29.5 M (\$3528.2)

Susquehanna 230kV Switchyard: Expand yard, extend busses, and install two new bays at Susquehanna 230kV yard. Install two dead-ends, four 230kV breakers, and associated equipment. Rebuild existing East and West bus to higher capacity.. Estimated Cost: \$10 M (\$3528.3)

Harwood 230kV Substation: Install new line terminal in the Harwood 230kV switchyard, install one dead-end, two breakers, and associated equipment. New bay to be DBDB initial and future BAAH.. Estimated Cost: \$4 M (\$3528.4)

SUSQ-HARW #1 & #2 230kV Lines: Bifurcate the Susquehanna – Harwood #1 & #2 230kV and terminate at the new Tomhicken 230kV switchyard. Extend lines approximately 0.25 into the new Tomhicken 230kV switchyard.. Estimated Cost: \$3.7 M (\$3528.5)

Sunbury - Susquehanna # 1 230kV Line: Bifurcate the Sunbury – Susquehanna #1 230kV into the new Nescopeck 230kV switchyard. Extend lines approximately 0.2 into the new Nescopeck 230kV switchyard.. Estimated Cost: \$1.85 M (\$3528.6)

Sunbury - Susquehanna # 1 230kV Line Partial Rebuild: Rebuild the Sunbury - Susquehanna # 1 230kV Line to double circuit 230kV for 3.9 miles from the Susquehanna 230kV yard to the new Nescopeck 230kV switchyard.. Estimated Cost: \$17.2 M (\$3528.7)

Nescopeck - Tomhicken 230kV Line: Extend a double circuit 230kV (built for 500kV) for ~9 miles from Nescopeck to Tomhicken on existing PPL ROW. Extend single circuit 230kV (built for 500kV DlbCir) for 2.7 miles from Tomhicken to Harwood and terminate at Harwood. This will create the Nescopeck - Tomhicken 230kV and Nescopeck - Harwood 230kV lines.. Estimated Cost: \$80.5 M (\$3528.8)

Tomhicken Customer Taps 230kV lines: Install four 230kV lead lines for approximately 0.1 miles from Tomhicken 230kV switchyard to the customer facility.. Estimated Cost: \$3.8 M (\$3528.9)

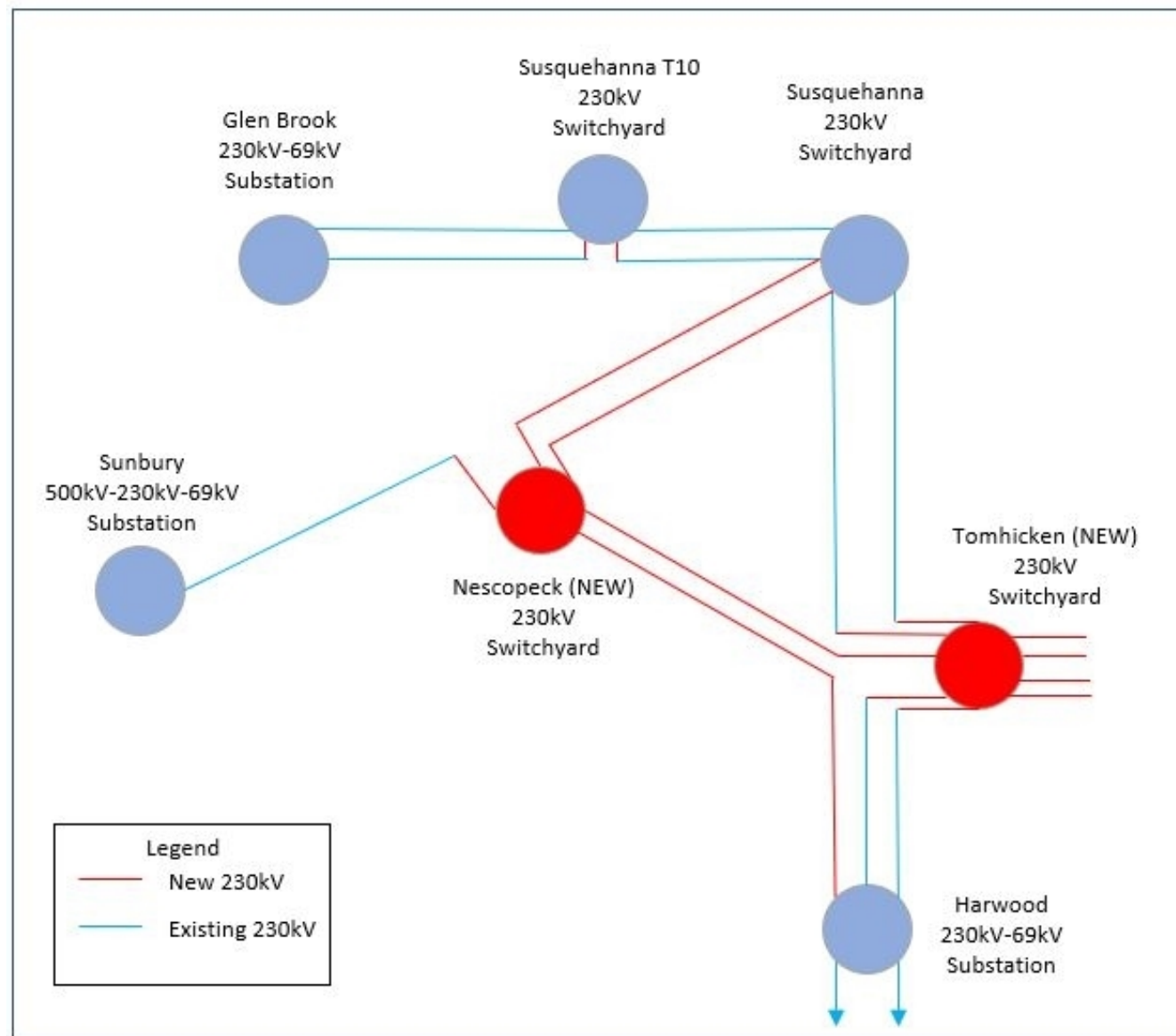
Transmission Cost Estimate: \$195.55 M

Alternatives Considered:

Rebuild the Susquehanna – Harwood #1 & #2, install a third line 230kV circuit from Susquehanna to Harwood, and break GLBR-SUSQ into SU10 yard. Rebuild of the Susquehanna – Harwood #1 & #2 infeasible due to outage conflicts with HARW-SIEG/EPAL 230kV rebuild under S2374 as well as the lack of operational flexibility. Estimated cost \$199 million.

Projected In-Service: 06/01/2027

Project Status: Conceptual





PPL Transmission Zone M-3 Process Callender Gap, PA

Need Number: PPL-2025-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 05/06/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

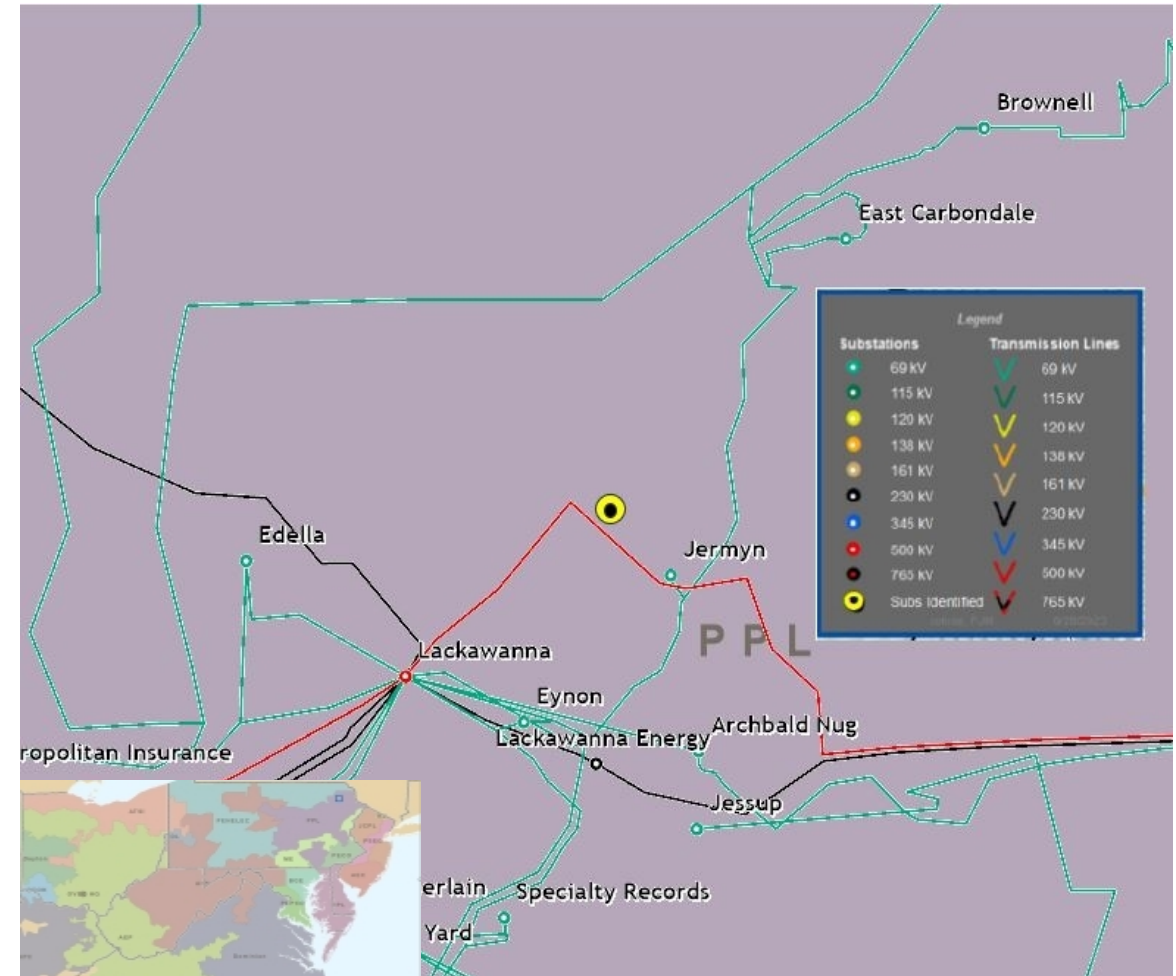
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Jermyn, PA. The total facility load is approximately 500 MW (2029). The requested in-service date is 05/2027.

Initial In-Service 2027 Load: 145MW

Projected 2028 Load: 430MW

Projected 2029 Load: 500MW





PPL Transmission Zone M-3 Process Callender Gap, PA

Need number(s): PPL-2025-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
03/13/2026

Proposed Solution:

Callender Gap 230kV Switchyard: Install a four bay BAAH 230kV switchyard with a 125MVAR Capacitor bank.. Estimated Cost: \$45 M (s3800.1)

Lackawanna - Paupack 230kV Line: Bifurcate the Lackawanna - Paupack 230kV line and terminate at the new Callender Gap 230kV switchyard. Extend lines approximately 0.2 miles into the new Callender Gap 230kV switchyard.. Estimated Cost: \$6 M (s3800.2)

Lackawanna 230kV Yard: Install one new 230kV breaker, 230kV dead-end, and ancillary equipment in Bay #1 at Lackawanna 230kV Yard. Estimated Cost: \$2 M (s3800.3)

Lackawanna - Callender Gap #2 230kV line: Install a new single circuit, future double circuit, 230kV line from Lackawanna to Callender Gap (3.7 miles). Estimated Cost: \$16.5 M (s3800.4)

Callender Gap Customer 230kV Taps: Install three 230kV lead lines for approximately 0.1 miles from Callender Gap 230kV switchyard to the customer facility. Estimated Cost: \$4 M (s3800.5)

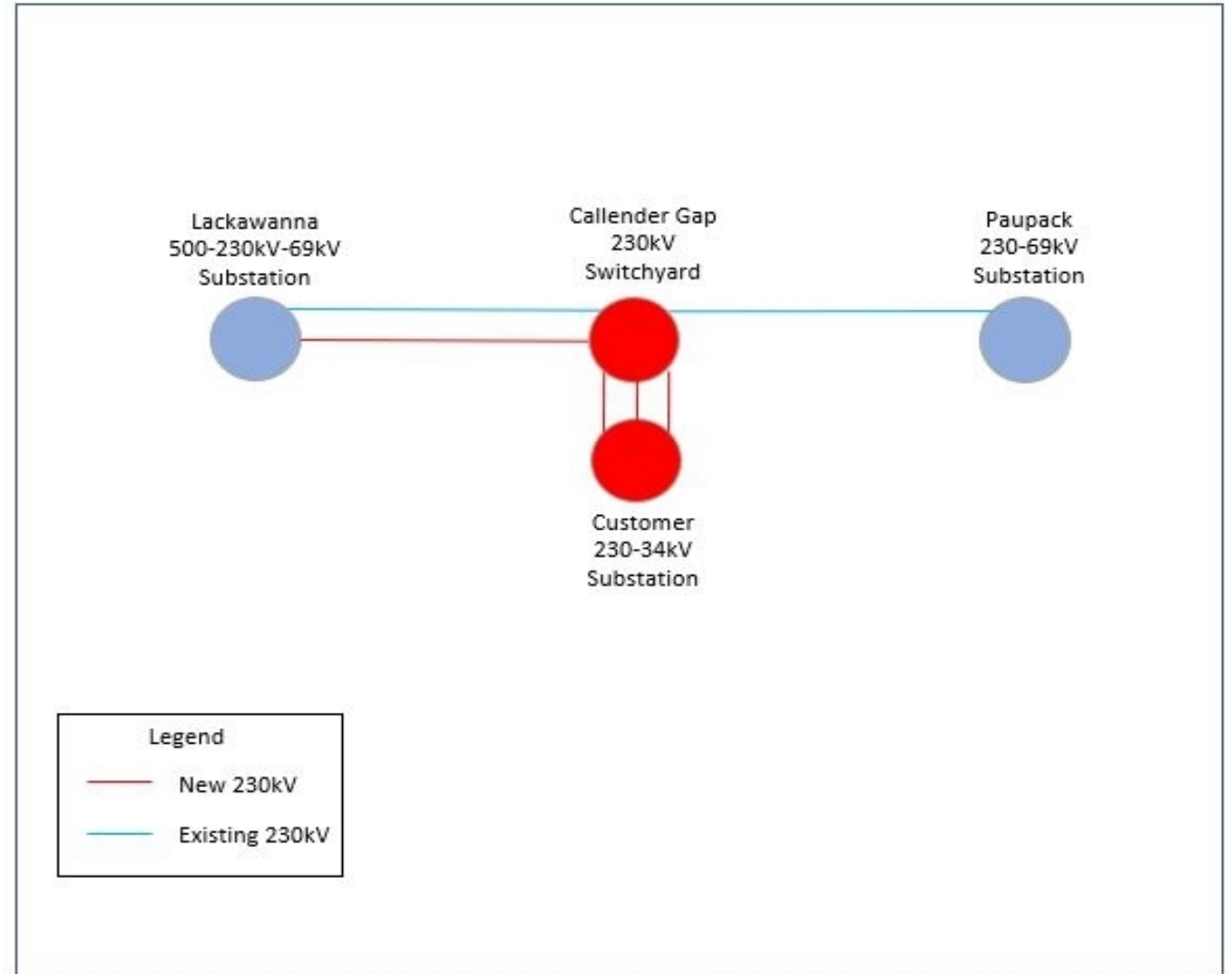
Transmission Cost Estimate: \$73.5 M

Alternatives Considered:

1. Break the Lackawanna – Hopatcong 500kV and Lackawanna – Paupack 230kV Lines. Install a 500kV-230kV substation with two 500-230kV transformers. Extend three 230kV lines to the new customer substation. Estimated cost: \$128 Million

Projected In-Service: 05/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Orefield, PA

Need Number: PPL-2025-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 05/06/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

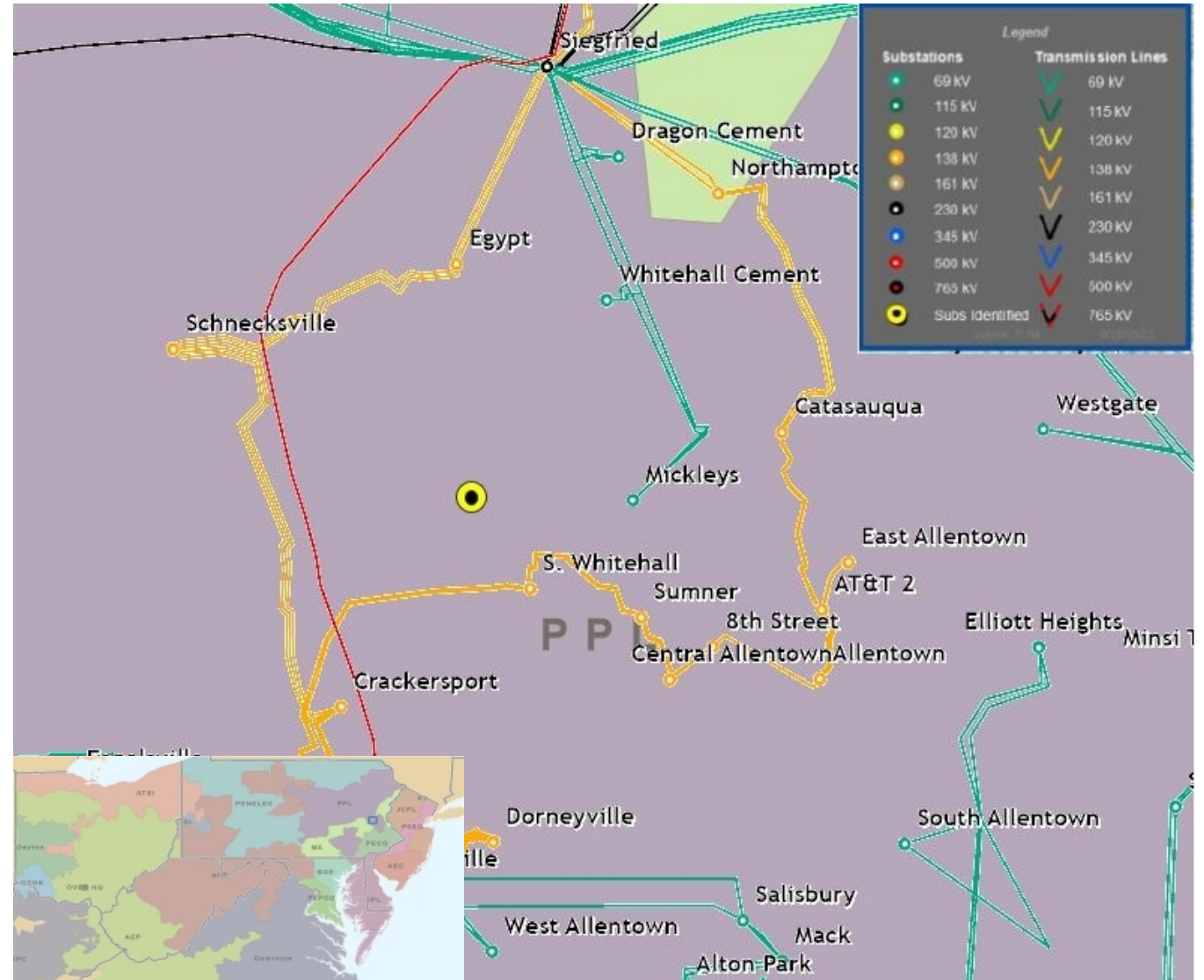
Problem Statement:

A customer has submitted a request to have their facility served from a 138kV source in Allentown, PA. The total facility load is approximately 1000 MW (2031). The requested in-service date is 10/2026.

Initial In-Service 2026 Load: 75 MW

Projected 2028 Load: 450 MW

Projected 2030 Load: 920 MW





PPL Transmission Zone M-3 Process Orefield, PA

Need number(s): PPL-2025-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Proposed Solution:

Orefield 500-138kV Substation: Install a new three bay BAAH 500kV yard with two 500-138kV Transformers and one 144MVAR Capacitor Bank. Estimated Cost: \$71 M (s3801.1)

Orefield 138kV Yard: Install an eight bay BAAH 138kV yard with two 44MVAR capacitor banks. Estimated Cost: \$40 M (s3801.2)

Susquehanna - Wescosville 500kV line: Bifurcate the Susquehanna - Wescosville 500kV line and terminate at the new Orefield 500-138kV substation. Extend lines approximately 1.2 miles on separate pole lines to the Orefield 500kV yard. Estimated Cost: \$17.2 M (s3801.3)

Siegfried - Wescosville #1 & #2 138kV Lines: Bifurcate the Siegfried - Wescosville #1 & #2 138kV Lines and terminate at the new Orefield 500-138kV substation. Extend lines approximately 1.8 miles on separate double circuit pole lines to the Orefield 138kV yard. Estimated Cost: \$14.4 M (s3801.4)

Wescosville - Allentown #1 & #2 138kV Lines: Bifurcate the Wescosville - Allentown #1 & #2 138kV Lines and terminate at the new Orefield 500-138kV substation. Extend lines approximately 0.3 miles on separate double circuit pole lines to the Orefield 138kV yard. Estimated Cost: \$2.4 M (s3801.5)

Orefield Customer 138kV Lead Lines: Install six 138kV lead lines for approximately 0.75 miles from Orefield 138kV yard to the customer facility. Estimated Cost: \$9 M (s3801.6)

Wescosville 500-138kV Transformer #2: Connect on-site spare 500-138kV Transformer at Wescosville substation. Terminate 500kV side into a new GIS bay and install 138kV breaker and tie to 138kV bus. Estimated Cost: \$5 M (s3801.7)

Wescosville 138kV Yard: Rebuild the 138kV yard at Wescosville in a BAAH configuration. Re-terminate the 138kV lines and transformer connections into the new yard. Estimated Cost: \$35 M (s3801.8)

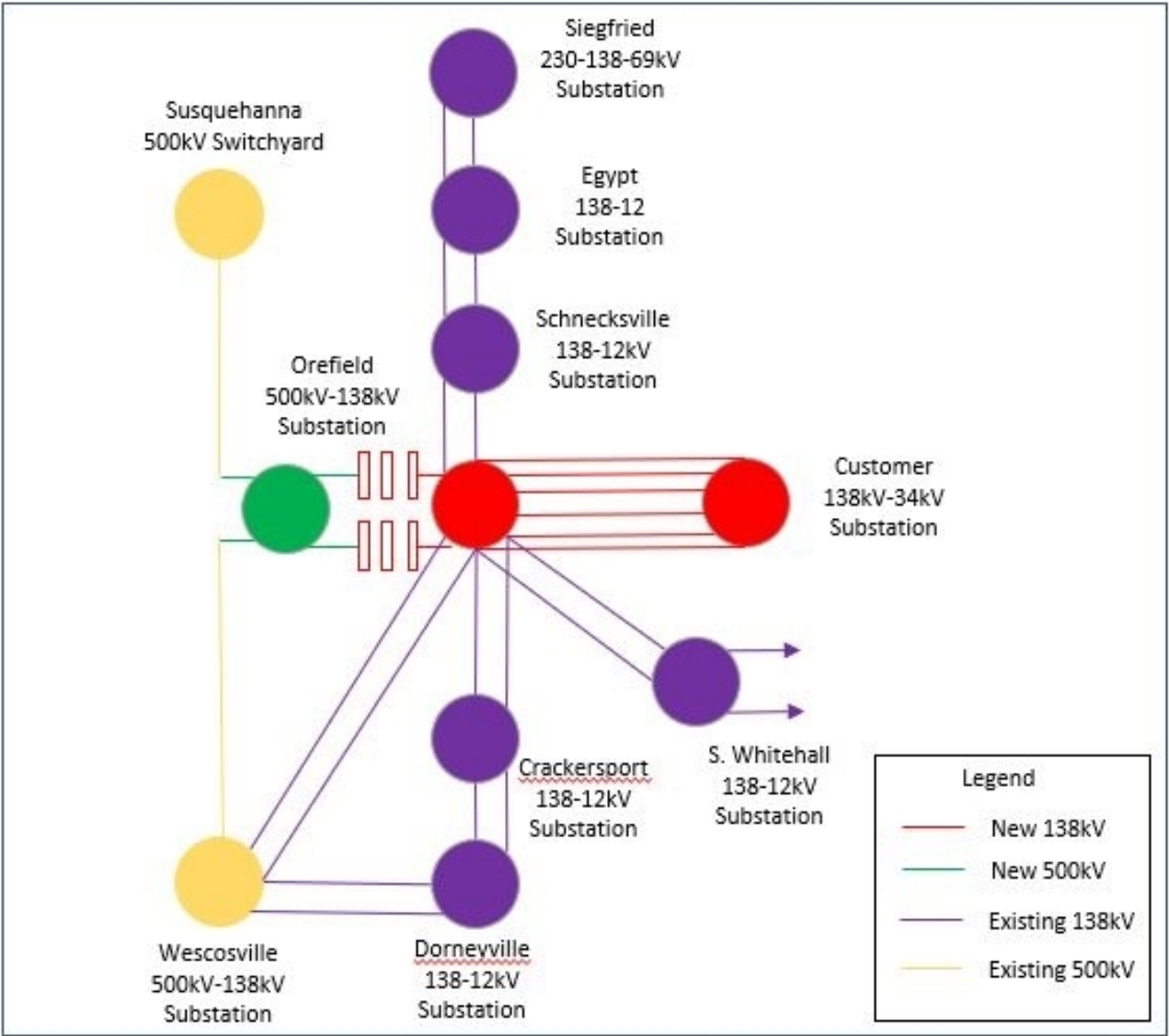
Transmission Cost Estimate: \$194 M

Alternatives Considered:

Break the Susquehanna – Wescosville 500kV and install a 500kV-138kV substation with four 500-138kV transformers. Extend a new 500kV line from Alburdis 500kV yard to the new Orefield substation (~20 miles). Extend six 138kV lines to the new customer substation. Estimated cost: \$359 Million

Projected In-Service: 05/31/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Highspire, PA

Need Number: PPL-2025-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 05/06/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

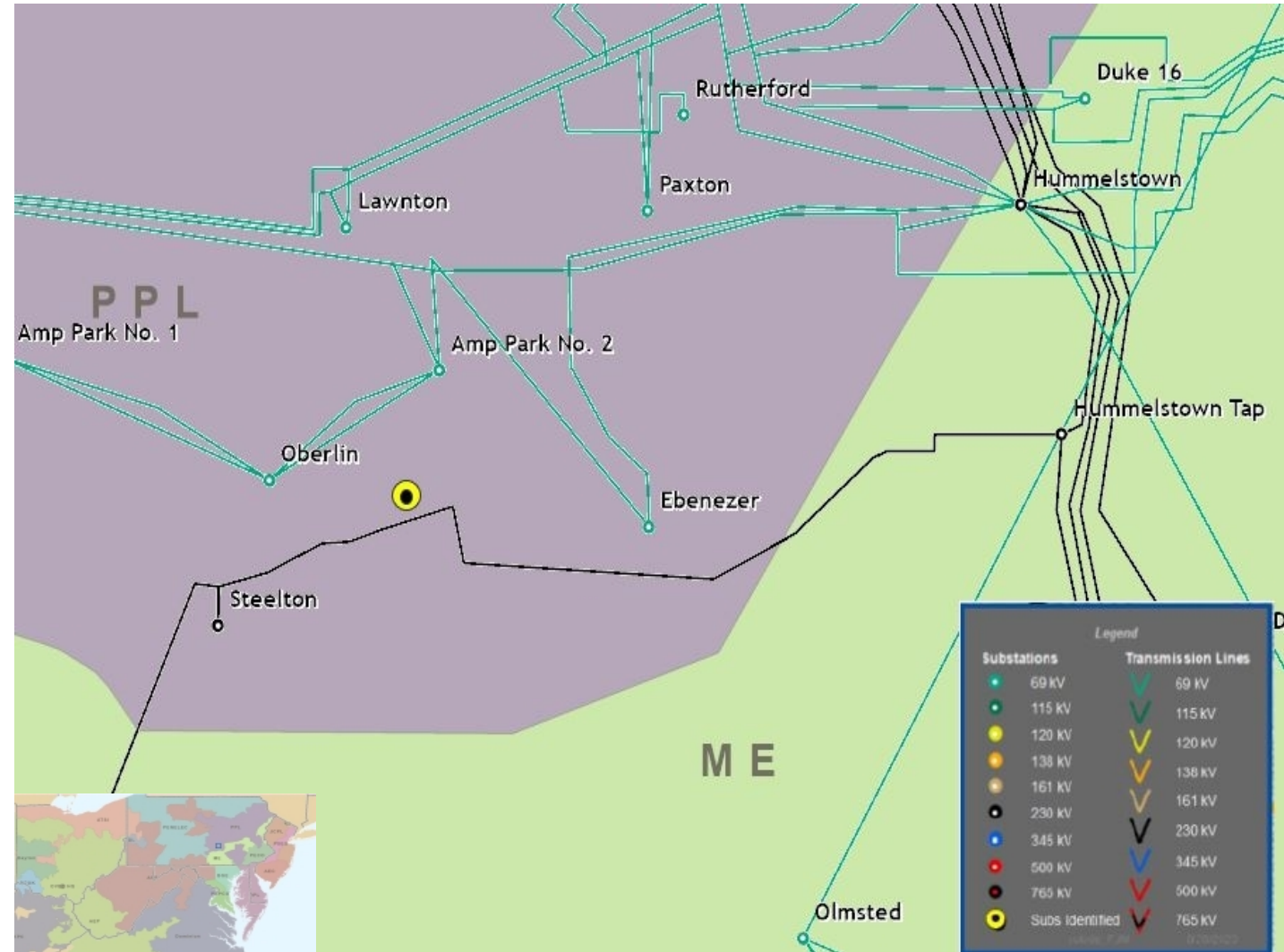
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Harrisburg, PA. The total facility load is approximately 450 MW (2030). The requested in-service date is 09/2027.

Initial In-Service 2027 Load: 40 MW

Projected 2028 Load: 155 MW

Projected 2030 Load: 450 MW





PPL Transmission Zone M-3 Process Highspire, PA

Need number(s): PPL-2025-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
03/13/2026

Proposed Solution:

Highspire 230kV Switchyard: Install a four bay BAAH 230kV switchyard with an 80MVAR Capacitor bank. Estimated Cost: \$45 M (s3802.1)

Hummelstown - Steelton 230kV Line: Bifurcate the Hummelstown - Steelton 230kV line and terminate at the new Highspire 230kV switchyard. Extend lines approximately 0.2 miles into the new Highspire 230kV switchyard. Estimated Cost: \$3 M (s3802.2)

Hummelstown 230kV Yard: Expand Hummelstown 230kV yard and install two new DBDB 230kV bays. Re-terminate the Steelton 230kV tap into a new bay position. Install one new breaker in Bay 6 to make HUMM-MIDD #2 DBDB. Estimated Cost: \$8 M (s3802.3)

Highspire Customer 230kV Lead Lines: Install three 230kV lead lines for approximately 0.1 miles from Highspire 230kV switchyard to the customer facility. Estimated Cost: \$4 M (s3802.4)

Hummelstown - Steelton 230kV Line Rebuild (HUMM to HIGH): Rebuild the existing Hummelstown - Steelton 230kV Line to double circuit 230kV from Hummelstown to Highspire (5.1 miles). Estimated Cost: \$23 M (s3802.5)

Hummelstown - Steelton 230kV Line Rebuild (HIGH to STEE): Rebuild the existing Hummelstown - Steelton 230kV Line to single circuit, future double circuit 230kV from Steelton to Highspire (1.5 miles). Estimated Cost: \$6 M (s3802.6)

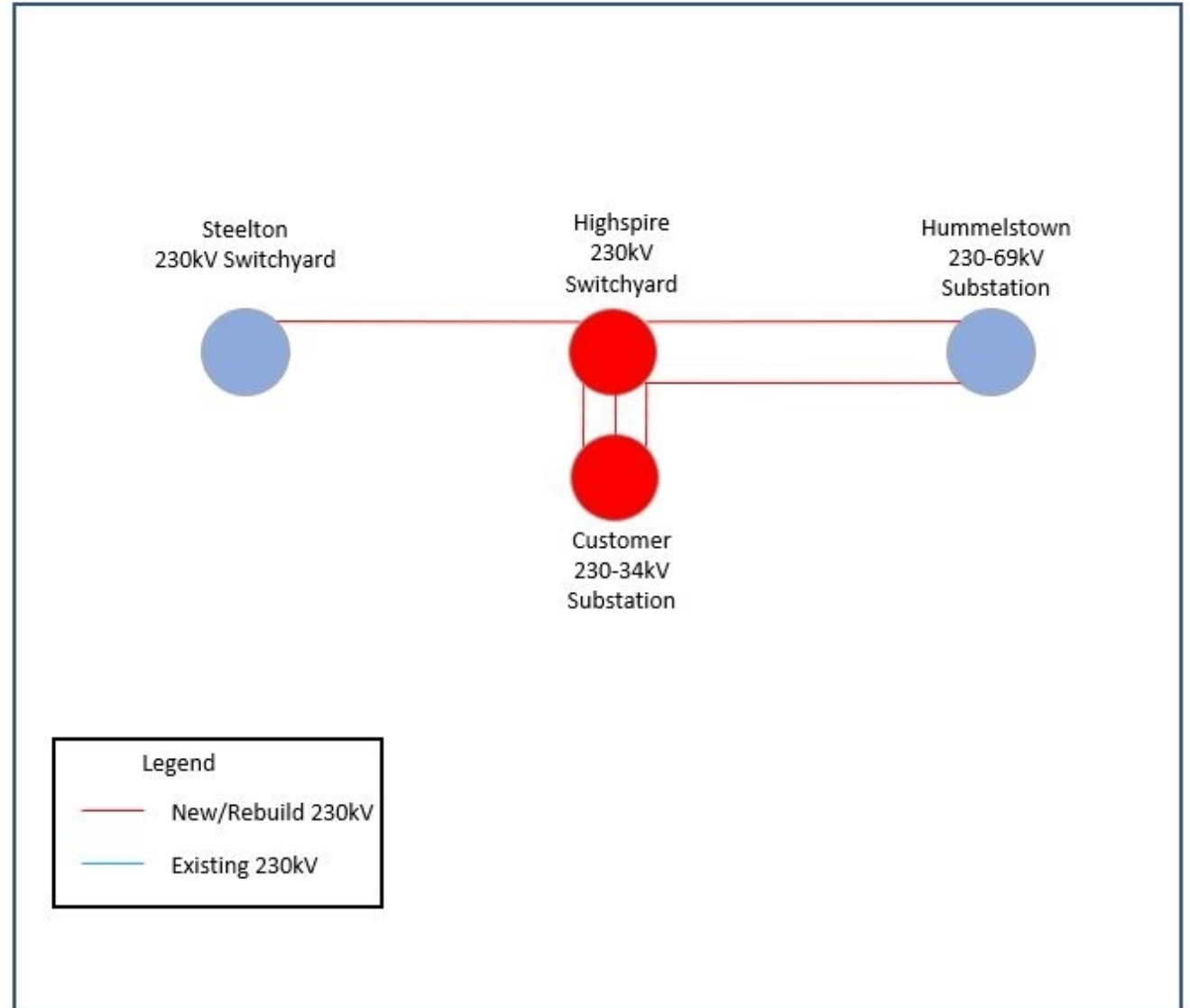
Transmission Cost Estimate: \$89 M

Alternatives Considered:

No functional alternatives as the customer site is immediately adjacent to the HUMM-STEE 230kV line.

Projected In-Service: 05/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Black Creek, PA

Need Number: PPL-2025-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 05/06/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

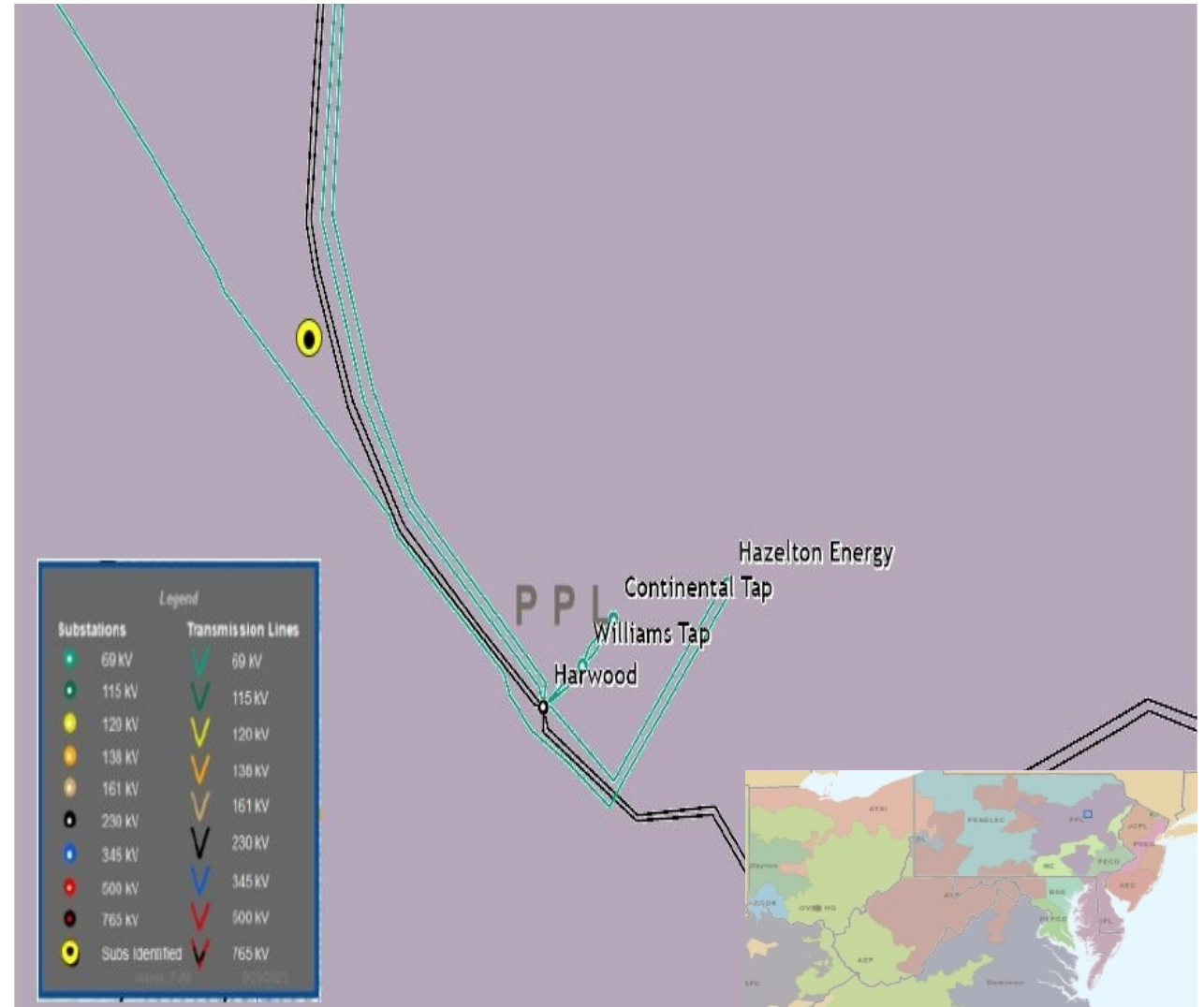
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Hazleton, PA. The total facility load is approximately 500 MW (2029). The requested in-service date is 05/2027.

Initial In-Service 2027 Load: 250 MW

Projected 2028 Load: 375 MW

Projected 2029 Load: 500 MW





PPL Transmission Zone M-3 Process Black Creek, PA

Need number(s): PPL-2025-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Proposed Solution:

Tomhicken 230kV Yard: Expand Tomhicken 230kV Yard and install three new line terminals by building out one bay BAAH and one bay in DBDB future BAAH arrangement. Install total of five 230kV breakers. Estimated Cost: \$8 M (s3803.1)

Tomhicken 230kV Customer Lead Lines: Install three 230kV lead lines for approximately 0.7 miles from Tomhicken 230kV switchyard to the customer facility. Estimated Cost: \$5.5 M (s3803.2)

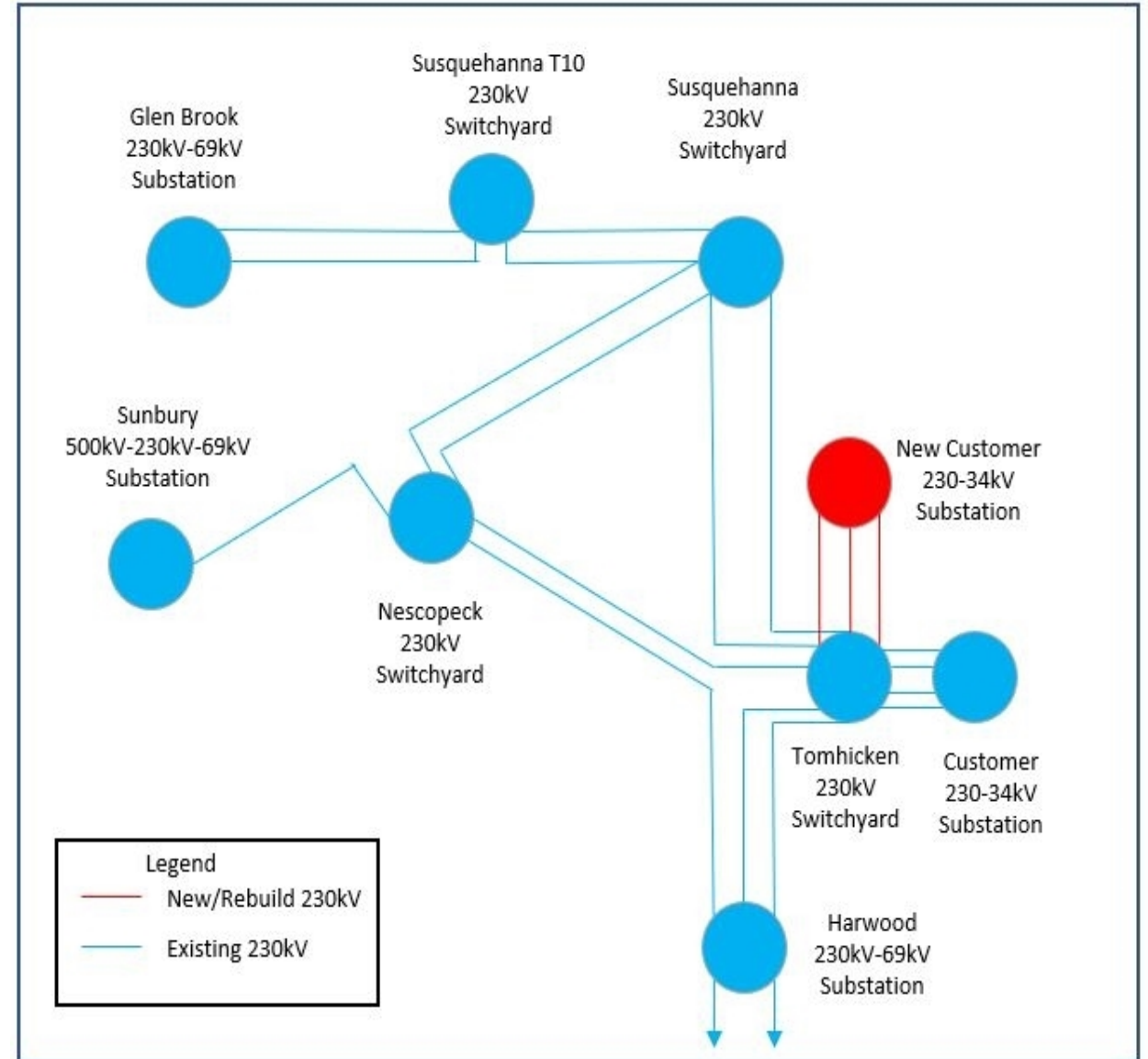
Transmission Cost Estimate: \$13.5 M

Alternatives Considered:

Install a new four bay BAAH 230kV Switchyard at the customer's location. Break the SUSQ-TOMH 230kV lines and extend three 230kV lines to customer sub. Rebuild SUSQ-TOMH 230kV from SUSQ to new sub. Estimated cost: \$96 Million

Projected In-Service: 05/30/2027

Project Status: Conceptual





PPL Transmission Zone M-3 Process Lackawanna, PA

Need Number: PPL-2025-0013

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 09/09/2025

Project Driver: Customer Service

Specific Assumption References:

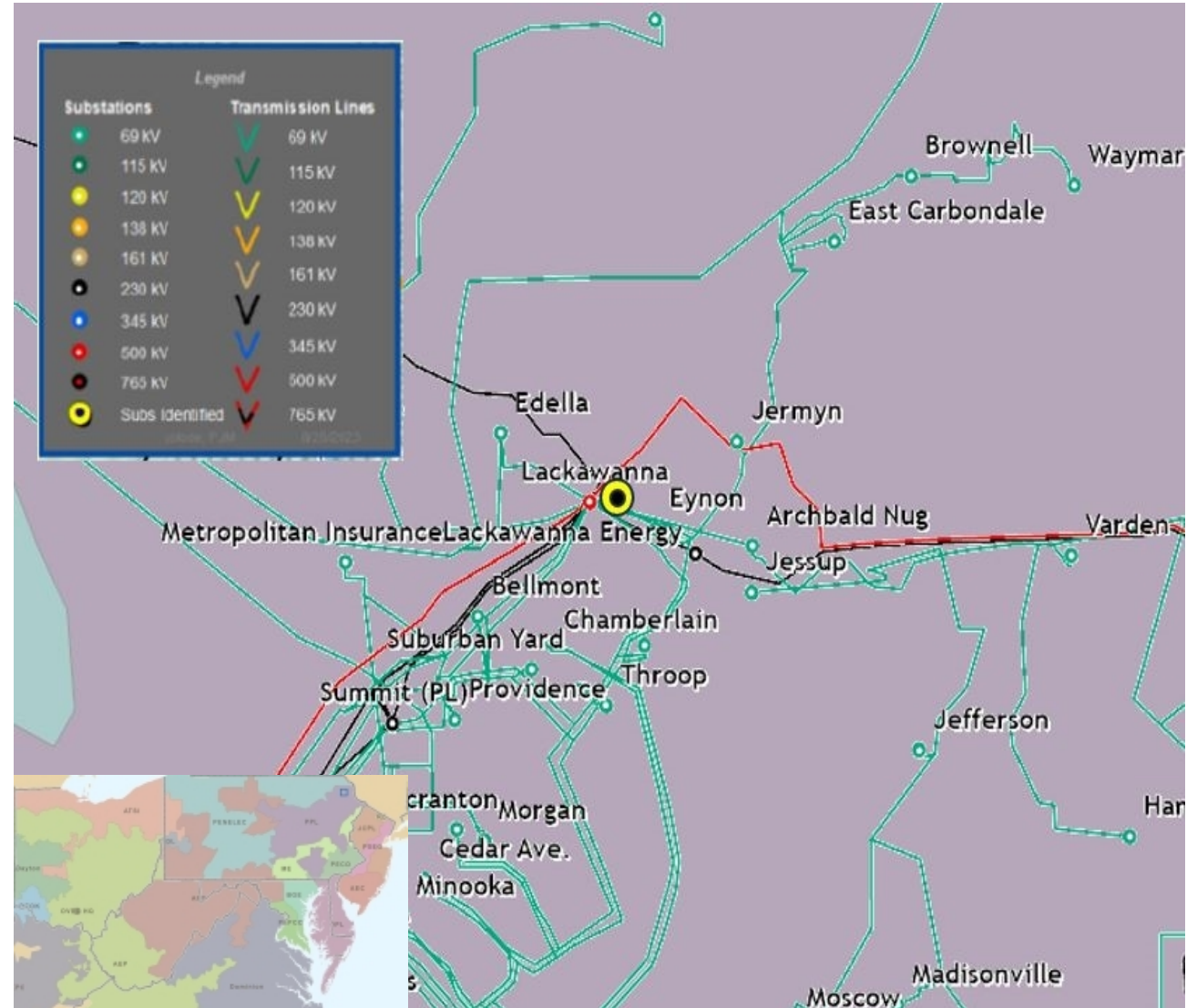
PPL 2025 Annual Assumptions

Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Lackawanna, PA. The total facility load is approximately 1,400 MW (2031). The requested in service date is 07/2028

Initial In-Service 2028 Load: 200 MW

Projected 2030 Load: 1,200 MW





PPL Transmission Zone M-3 Process Lackawanna, PA

Need number(s): PPL-2025-0013

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
03/13/2026

Proposed Solution:

Sturges 230kV Switchyard: Install an eight bay BAAH 230kV switchyard with a 125MVAR Capacitor banks. Estimated Cost: \$50 M (s3804.1)

Bifurcate Summit - Lackawanna #1 & #2 230kV lines: Bifurcate Summit - Lackawanna #1 & #2 230kV lines into the new Sturges 230kV switchyard (~0.9 miles). Rebuild the ~0.2 mile section of SUMT-LACK #1 & #2 from bifurcation point to Lackawanna 230kV yard. Estimated Cost: \$9.9 M (s3804.2)

Bifurcate Lackawanna - Callender Gap #1 230kV line: Bifurcate Lackawanna - Callender Gap #1 230kV line into the new Sturges 230kV switchyard (~0.1 miles). Estimated Cost: \$3 M (s3804.3)

Lackawanna - Callender Gap #2 230kV Line: Terminate the Lackawanna - Callender Gap #2 line (from PPL-2025-0005) at Sturgis instead of Lackawanna. Estimated Cost: \$2.5 M (s3804.4)

Lackawanna 230kV yard: Replace one 230kV breaker and two MODs in Bay #3 at Lackawanna 230kV. Estimated Cost: \$1.5 M (s3804.5)

Sturges 230kV Customer Lead Lines: Install two 230kV lead lines for approximately 0.2 miles from Sturges 230kV switchyard to customer sub #1 and install four 230kV lead lines for approximately 0.6 miles from Sturges 230kV switchyard to customer sub #2. (six circuits total). Estimated Cost: \$8 M (s3804.6)

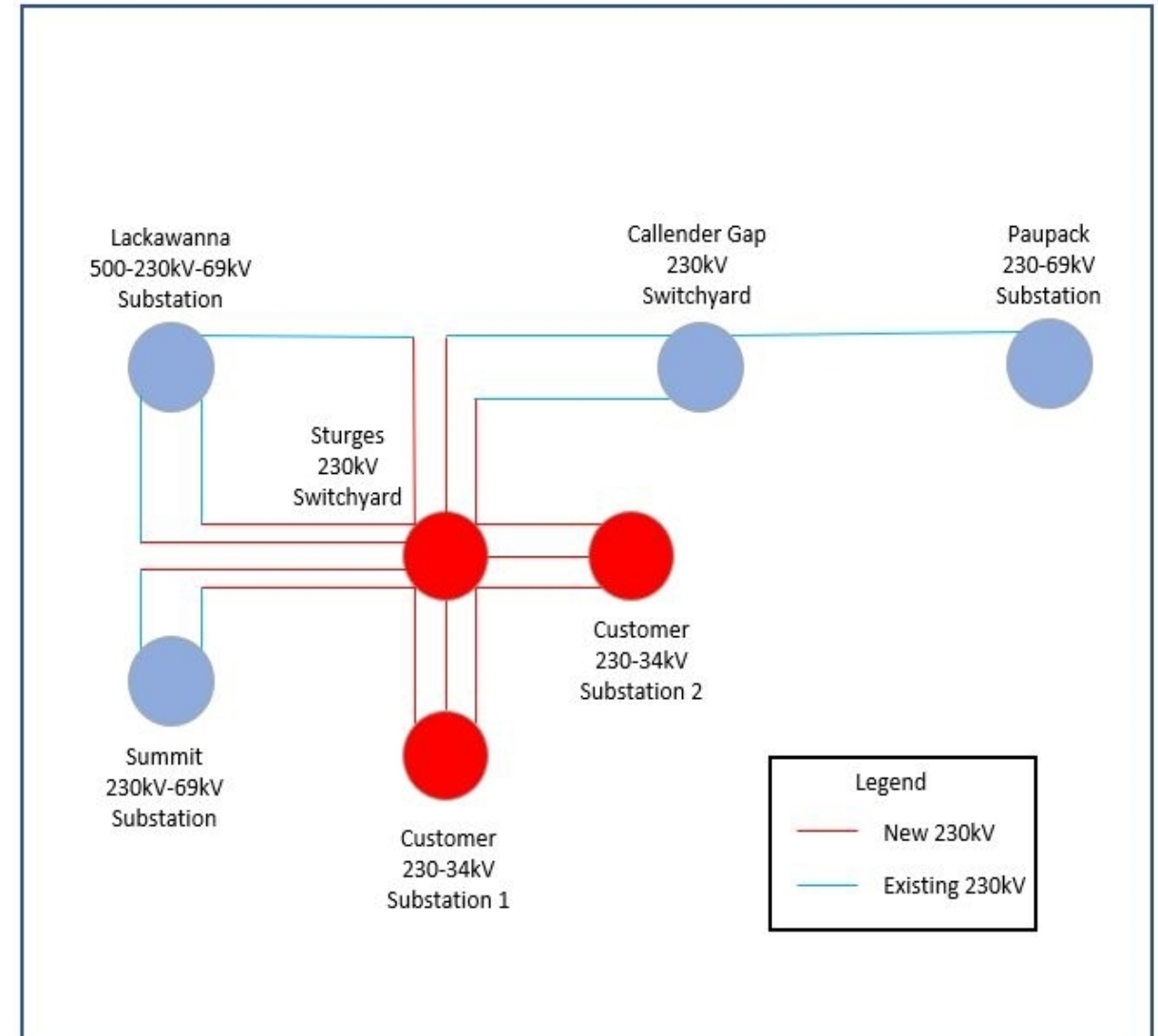
Transmission Cost Estimate: \$74.9 M

Alternatives Considered:

Expanding the existing Lackawanna 230kV yard is infeasible due to amount of grading and relocations of assets required.

Projected In-Service: 07/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Gordon, PA

Need Number: PPL-2025-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Previously Presented: Need Meeting 05/06/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

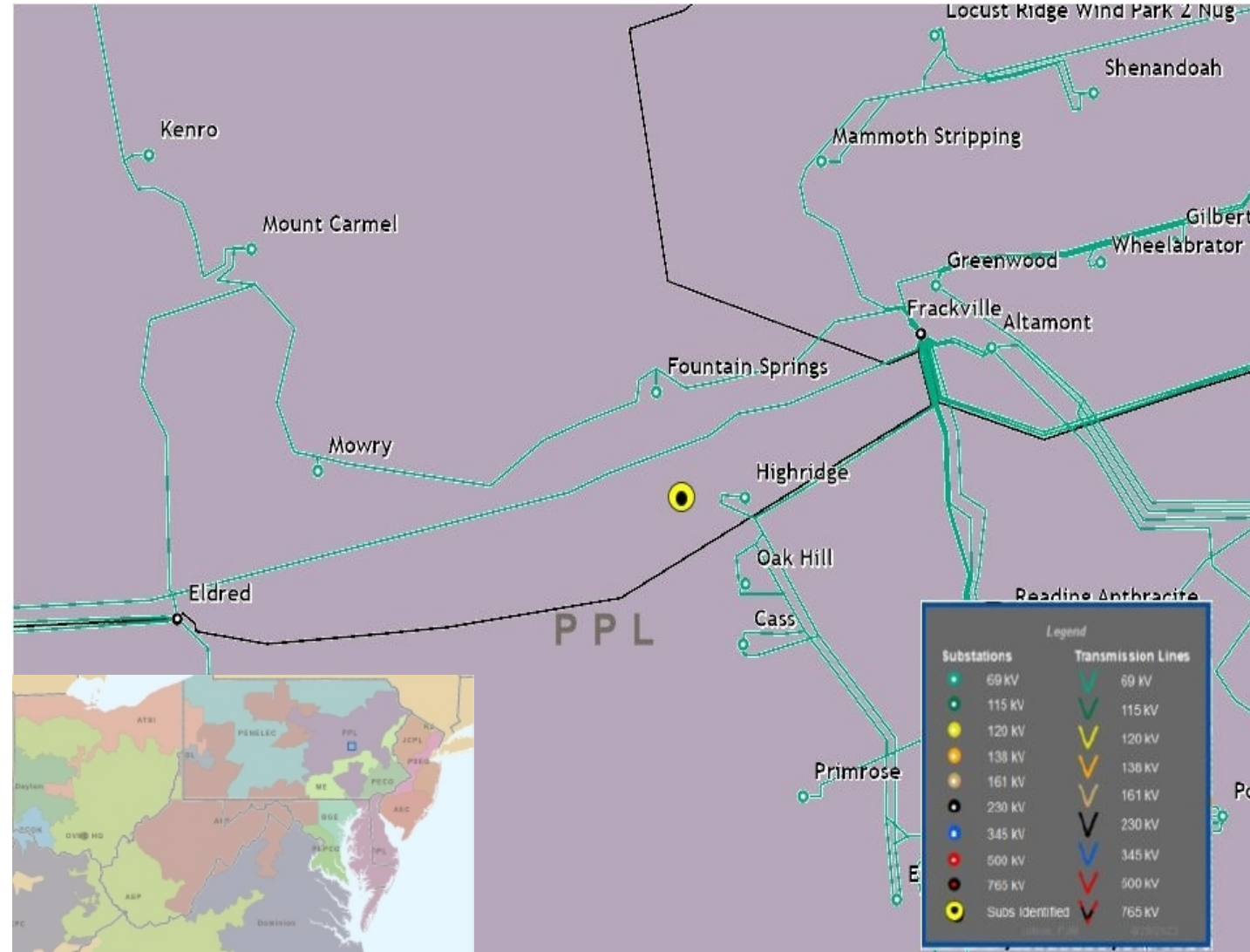
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source near Frackville, PA. The total facility load is approximately 600MW (2029). The requested in-service date is 05/2027.

Initial In-Service 2027 Load: 290MW

Projected 2028 Load: 300 MW

Projected 2029 Load: 600 MW





PPL Transmission Zone M-3 Process Gordon, PA

Need number(s): PPL-2025-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 03/13/2026

Proposed Solution:

Gordon 230kV Switchyard: Install a four bay BAAH 230kV switchyard with an 80MVAR Capacitor bank. Estimated Cost: \$45 M (s3805.1)

Eldred - Frackville 230kV Line: Bifurcate the Eldred - Frackville 230kV Line and terminate at the new Gordon 230kV switchyard. Extend lines approximately 0.4 miles into the new Gordon 230kV switchyard. Estimated Cost: \$4 M (s3805.2)

Sunbury 230kV Yard: Build out bay #2 in the 230kV GIS with two new breakers and associated equipment. Re-terminate the SUNB-SUSQ #1 230kV line from Bay #3 to Bay #2.. Estimated Cost: \$7 M (s3805.3)

Eldred 230kV Yard: Install two new terminals at Eldred Substation by building out two bays in DBDB future BAAH arrangement. Install total of four 230kV breakers.. Estimated Cost: \$4.5 M (s3805.4)

Frackville 230kV Yard: Install one new 230kV breaker, 230kV dead-end, and ancillary equipment in bay #3 at Frackville 230kV Yard. Estimated Cost: \$2 M (s3805.5)

Sunbury - Eldred 230kV Line: Rebuild the existing Sunbury - Eldred 230kV Line to double circuit 230kV from Sunbury to Eldred (24.8 miles). Estimated Cost: \$112.5 M (s3805.6)

Eldred - Frackville 230kV Line (ELDR to GORD): Rebuild the existing Eldred - Frackville 230kV Line to double circuit 230kV from Eldred to Gordon (7.3 miles). Estimated Cost: \$32.85 M (s3805.7)

Eldred - Frackville 230kV Line (GORD to FRAC): Rebuild the existing Eldred - Frackville 230kV Line to double circuit 230kV from Gordon to Frackville (4.4 miles). Estimated Cost: \$19.8 M (s3805.8)

Gordon 230kV Customer Lead Lines: Install three 230kV lead lines for approximately 0.1 miles from Gordon 230kV switchyard to the customer facility. Estimated Cost: \$4 M (s3805.9)

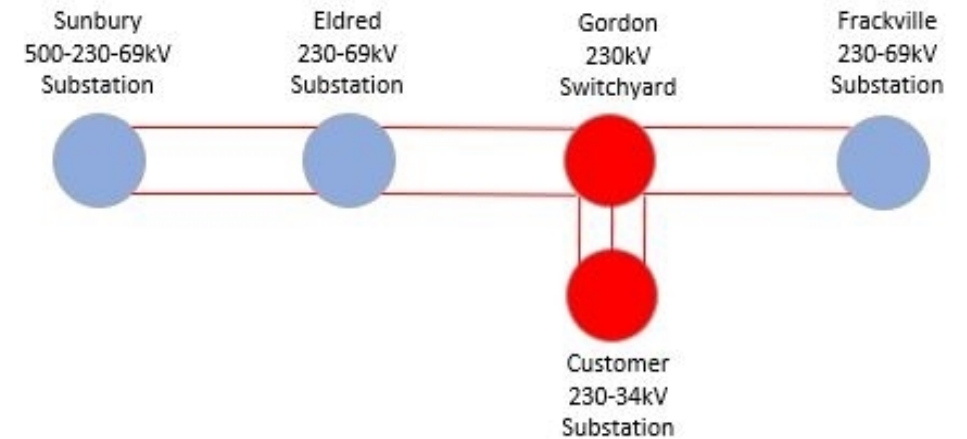
Transmission Cost Estimate: \$231.65 M

Alternatives Considered:

No functional alternatives as the customer site is immediately adjacent to the ELDR-FRAC 230kV line.

Projected In-Service: 05/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Big Bass, PA

Need Number: PPL-2025-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/08/2026

Previously Presented: Need Meeting 07/08/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

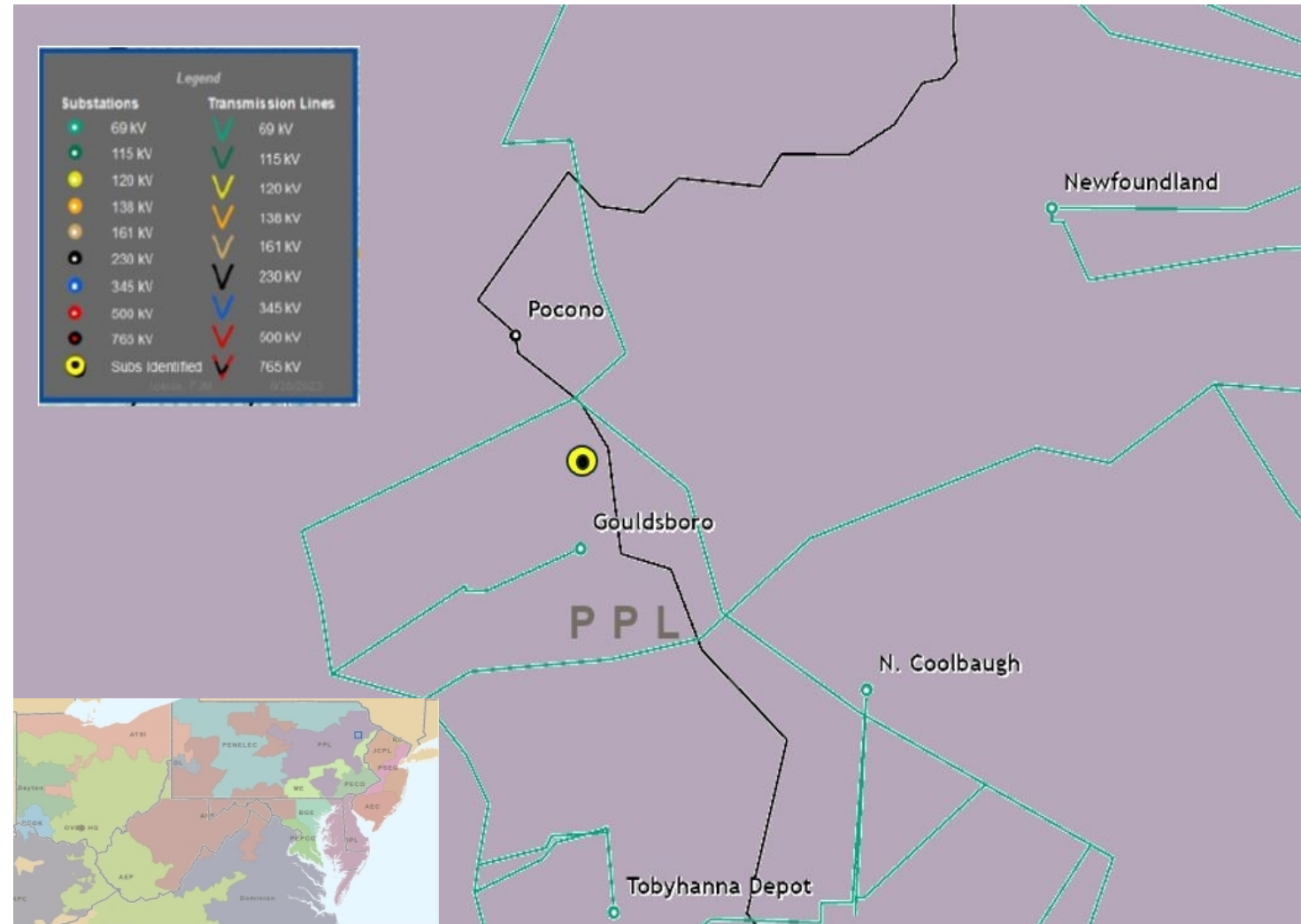
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Gouldsboro, PA. The total facility load is approximately 1,500 MW (2030). The requested in-service date is 05/2027.

Initial In-service 2027 Load: 300MW

Projected 2028 Load: 700MW

Projected 2030 Load: 1,500MW





PPL Transmission Zone M-3 Process

Big Bass, PA

Need number(s): PPL-2025-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/08/2026

Proposed Solution:

Big Bass 230kV Switchyard: Install a six bay BAAH 230kV switchyard with two 125MVAR Capacitor banks. Estimated Cost: \$50 M (s3819.1)

Big Bass 230kV Customer Lead Lines: Install three 230kV lead lines for approximately 0.2 miles from Big Bass 230kV switchyard to each of the customer's two substations (six lines total). Estimated Cost: \$8 M (s3819.2)

Jenkins 230kV Substation: Build out bay #2 at Jenkins 230kV yard and install one new 230kV breaker, two MODs, and ancillary equipment. Estimated Cost: \$1.25 M (s3819.3)

Re-terminate Jenkins - Palooka 230kV line: Re-terminate the JENK-PALO 230kV line from bay 3 to bay 2 at Jenkins 230kV yard. Estimated Cost: \$1 M (s3819.4)

New Jenkins - Acahela 230kV Line: Install the second circuit on the existing single circuit, future double circuit, sections of Jenkins - Palooka and Palooka - Acahela 230kV lines between Jenkins and Acahela (15 miles). Estimated Cost: \$18.75 M (s3819.5)

Acahela 230kV Substation: Install a new DBDB (BAAH ultimate) bay at Acahela 230kV yard. Install two breakers, one dead-end, and ancillary equipment. Build out bay #3 and install one new 230kV breaker, two MODs, and ancillary equipment. Estimated Cost: \$3.75 M (s3819.6)

Bifurcate Acahela - Pocono 230kV line: Bifurcate Acahela - Pocono 230kV line into the new Big Bass 230kV switchyard (~0.25 miles). Estimated Cost: \$3 M (s3819.7)

New Acahela - Big Bass #2 230kV Line: Install the second circuit on the existing single circuit, future double circuit, Acahela - Big Bass 230kV line between Acahela and Big Bass (12.9 miles). Estimated Cost: \$16.125 M (s3819.8)

New Big Bass - Pocono #2 230kV Line: Install the second circuit on the existing single circuit, future double circuit, Big Bass - Pocono 230kV line between Big Bass and Pocono (7.25 miles). Estimated Cost: \$9.1 M (s3819.9)

Pocono 230kV Substation: Install a new DBDB (BAAH ultimate) bay at Pocono 230kV yard. Install two breakers, one dead-end, and ancillary equipment. Build out bay #3 and install one new 230kV breaker, two MODs, and ancillary equipment. Estimated Cost: \$3.75 M (s3819.10)

New Paupack - Pocono #2 230kV Line: Install the second circuit on the existing single circuit, future double circuit, Paupack - Pocono 230kV line between Paupack and Pocono (21.75 miles). Estimated Cost: \$27.5 M (s3819.11)

Paupack 230kV Substation: Build out bay #2 at Paupack 230kV yard and install one new 230kV breaker, one dead-end, and ancillary equipment. Replace four MODs in Bay 3 at Paupack 230kV. Estimated Cost: \$2.9 M (s3819.12)

Upgrade Lackawanna - Callender Gap 230kV Line: Add two subconductors to each phase in the 500kV designed section of the Lackawanna - Callender Gap 230kV line for ~ 3 miles. Rebuild the existing ~0.5 mile 230kV designed section of Lackawanna - Callender Gap 230kV line. Estimated Cost: \$7.75 M (s3819.13)

Lackawanna 230kV Substation: Replace two 230kV breakers and four MODs in Bay #3 at Lackawanna 230kV. Estimated Cost: \$2.9 M (s3819.14)

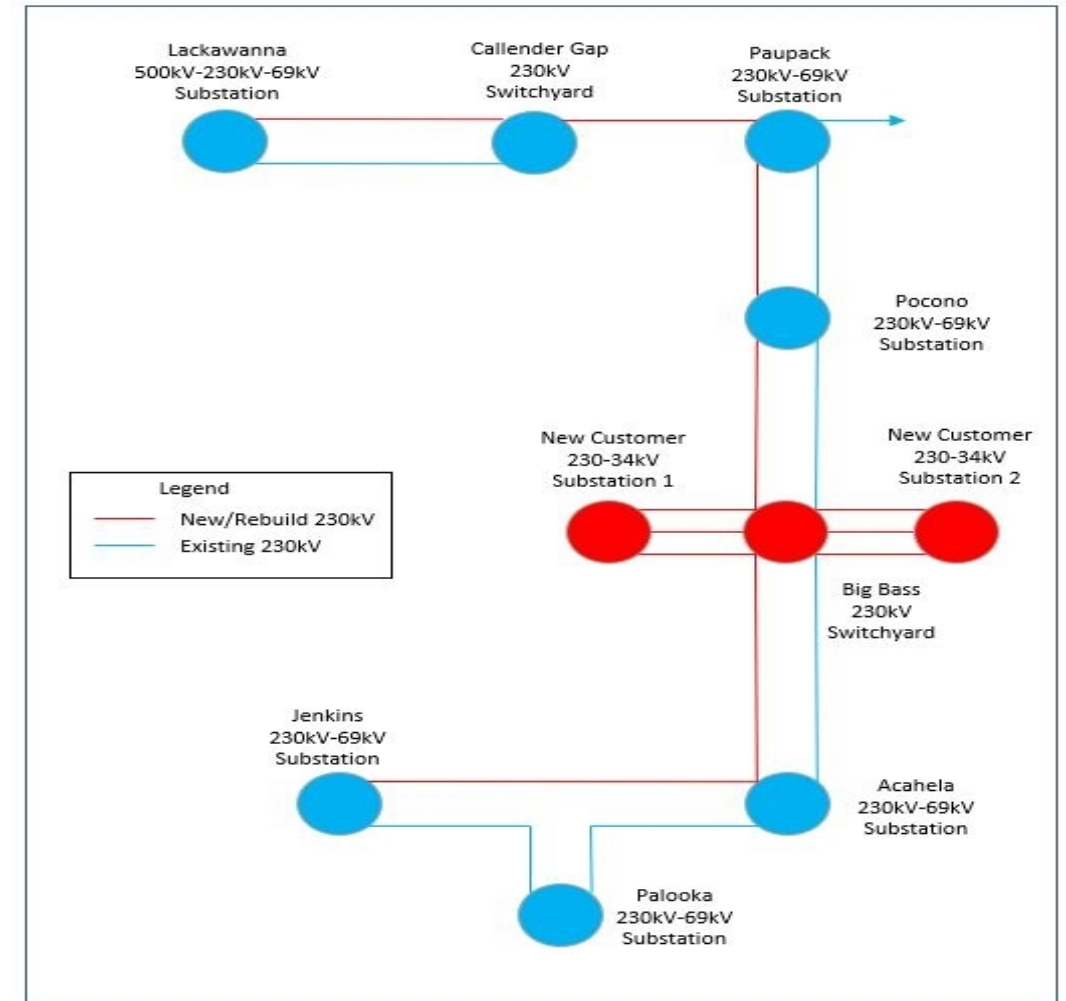
Upgrade Callender Gap - Paupack 230kV Line: Add two subconductors to each phase in the 500kV designed section of the Callender Gap - Paupack 230kV Line for ~ 17.1 miles. Rebuild the existing ~0.9 mile 230kV designed section of Callender Gap - Paupack 230kV line. Estimated Cost: \$31.1 M (s3819.15)

Transmission Cost Estimate: \$186.875 M

Alternatives Considered:

1. Bifurcate the ACAH-POCO 230kV line and install new 230kV switchyard. Rebuild Blooming Grove 230kV yard to BAAH and install new 500-230kV yard with two transformers. Extend ~21 miles of greenfield double circuit 230kV to new switchyard. Estimated cost ~\$255 Million.

Projected In-Service: 05/30/2028



Need Number: PPL-2026-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 01/15/2026

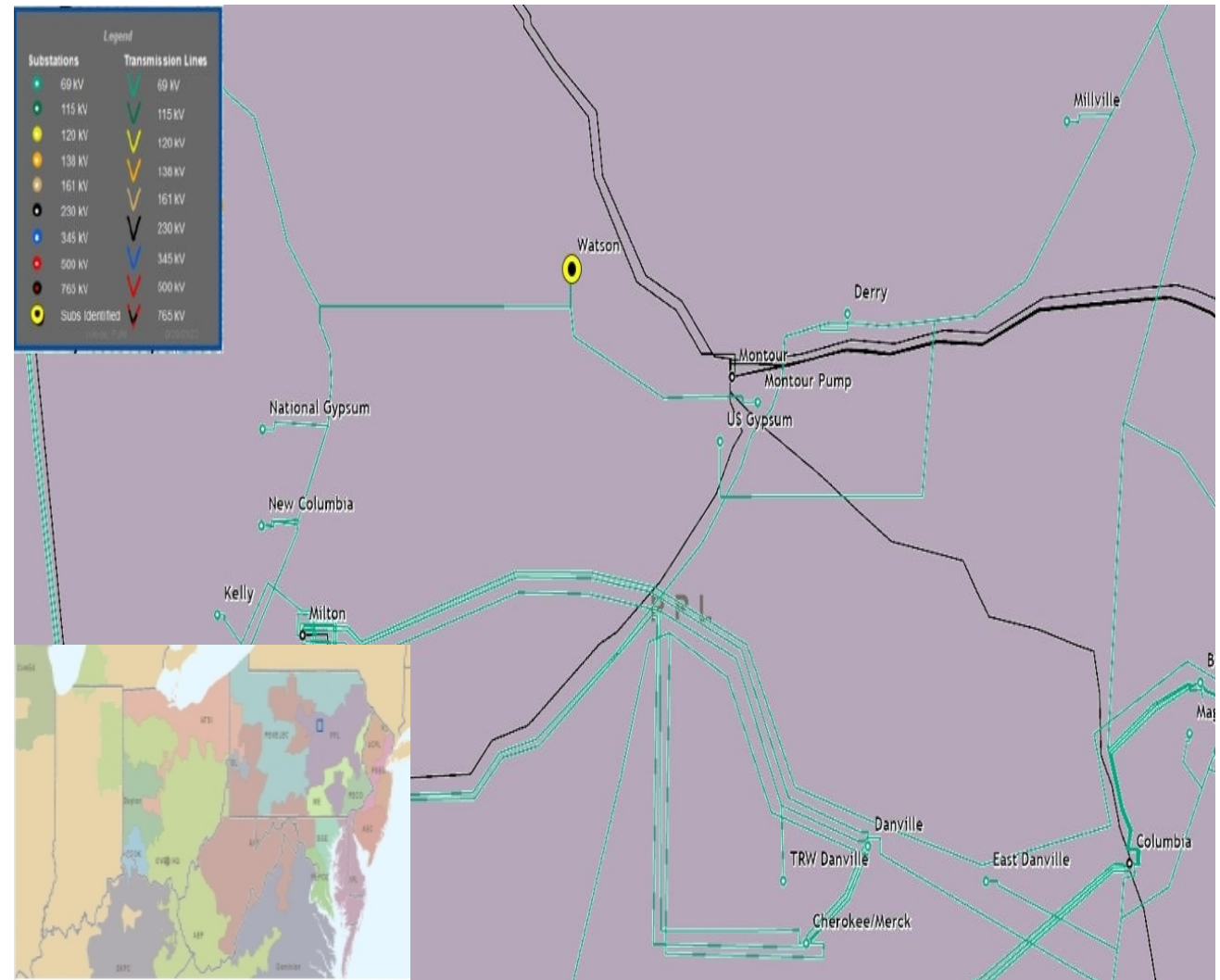
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the Watson 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 4/1/2027.



Need number(s): PPL-2026-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Watson Tap: Extend The Clinton-Milton 1 69kV Watson Tap 0.1 miles utilizing 556 ACSR and bring into the Watson 69-12kV Substation, into transformer 1 bay position. . Estimated Cost: \$0.5 M (s3859.1)

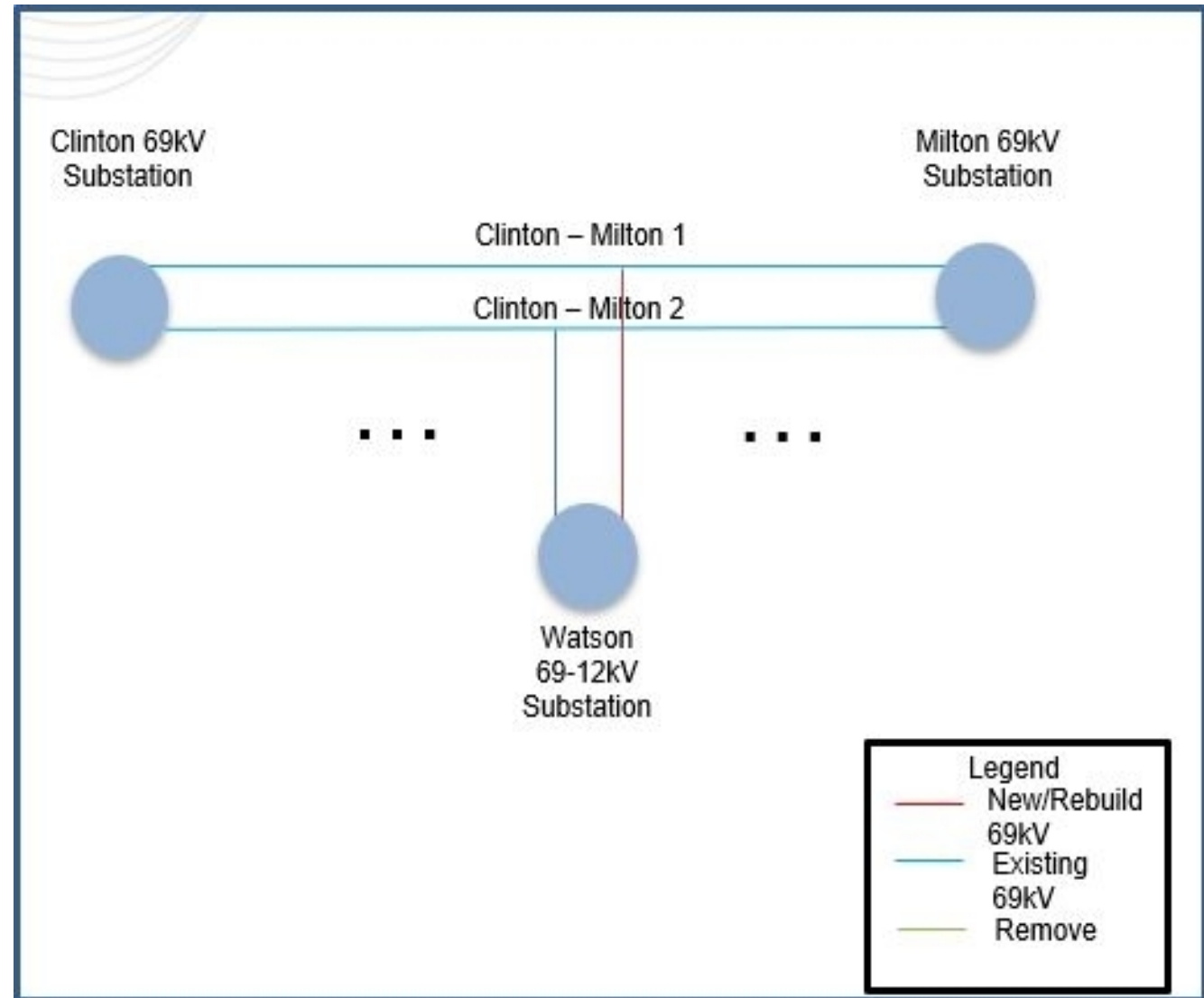
Transmission Cost Estimate: \$0.5 M

Alternatives Considered:

N/A

Projected In-Service: 04/01/2027

Project Status: Conceptual



Need Number: PPL-2025-0022

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 09/18/2025

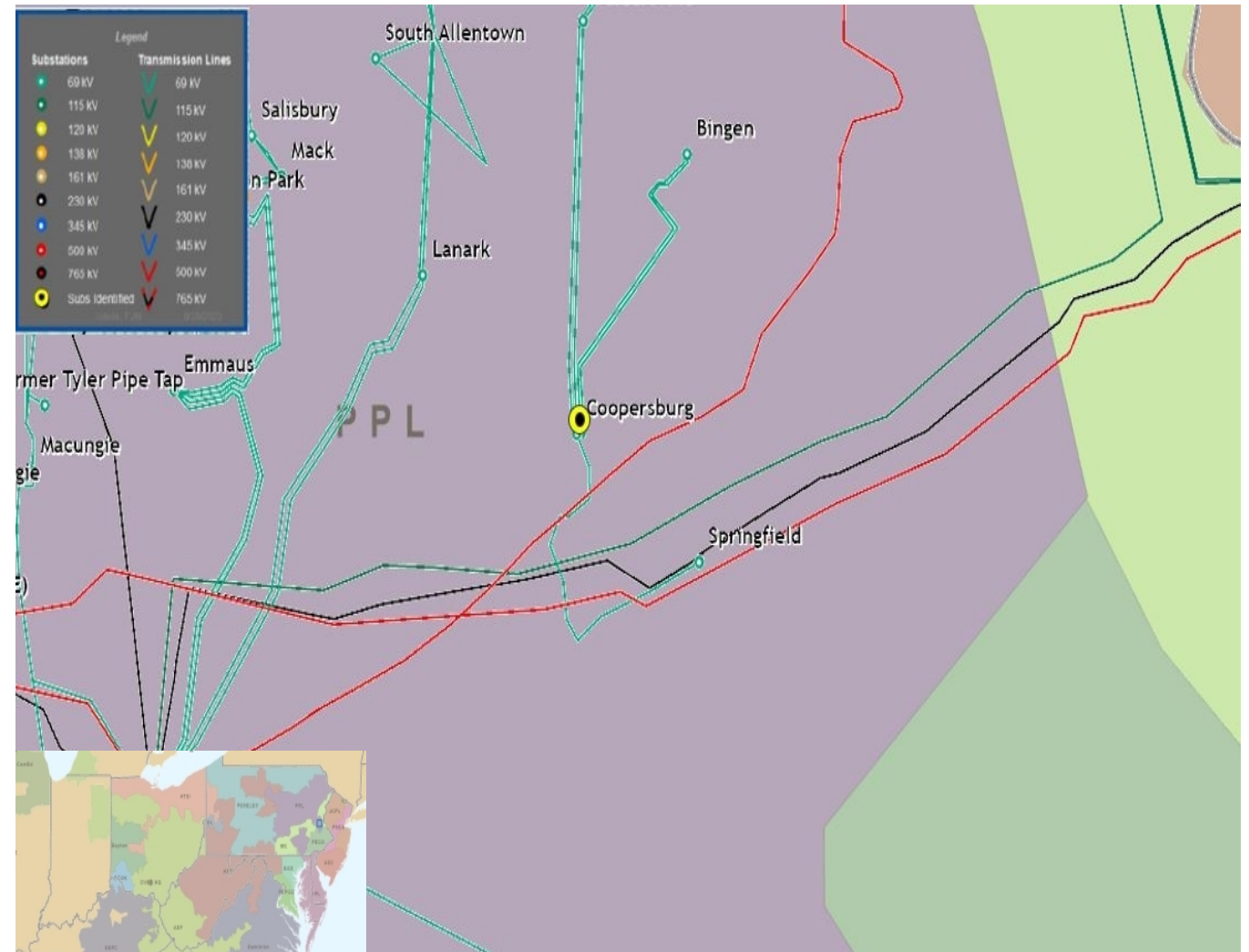
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request to relocate an existing 69-12kV substation from Coopersburg, PA to Center Valley, PA. The existing station is currently in a high-risk flood plain.



Need number(s): PPL-2025-0022

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Center Valley Tap 69kV: Tap existing 69kV line to feed new 69-12kV Substation. Estimated Cost: \$1.85 M (\$3851.1)

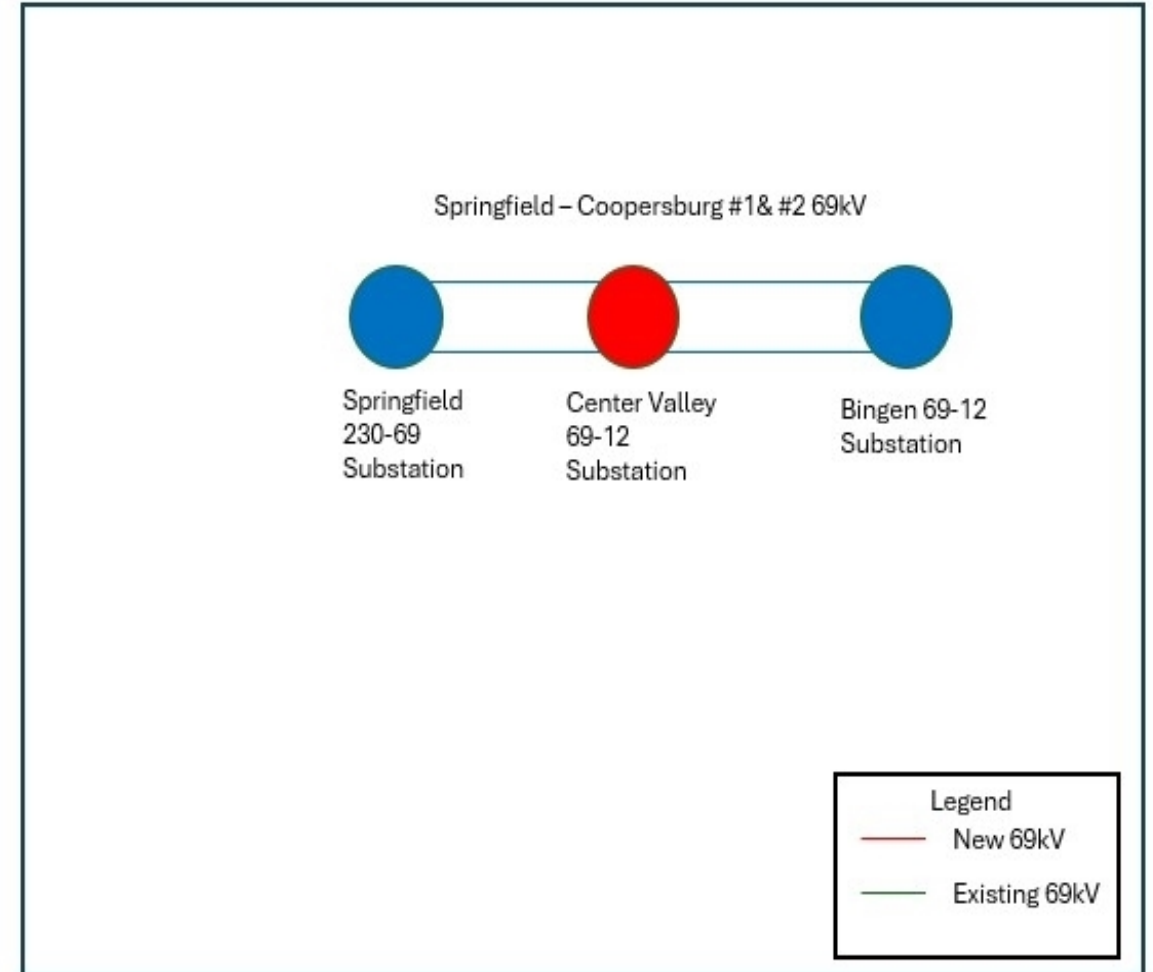
Transmission Cost Estimate: \$1.85 M

Alternatives Considered:

N/A

Projected In-Service: 11/30/2027

Project Status: Conceptual





PPL Transmission Zone M-3 Process Mausdale, PA

Need Number: PPL-2025-0030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 12/11/2025

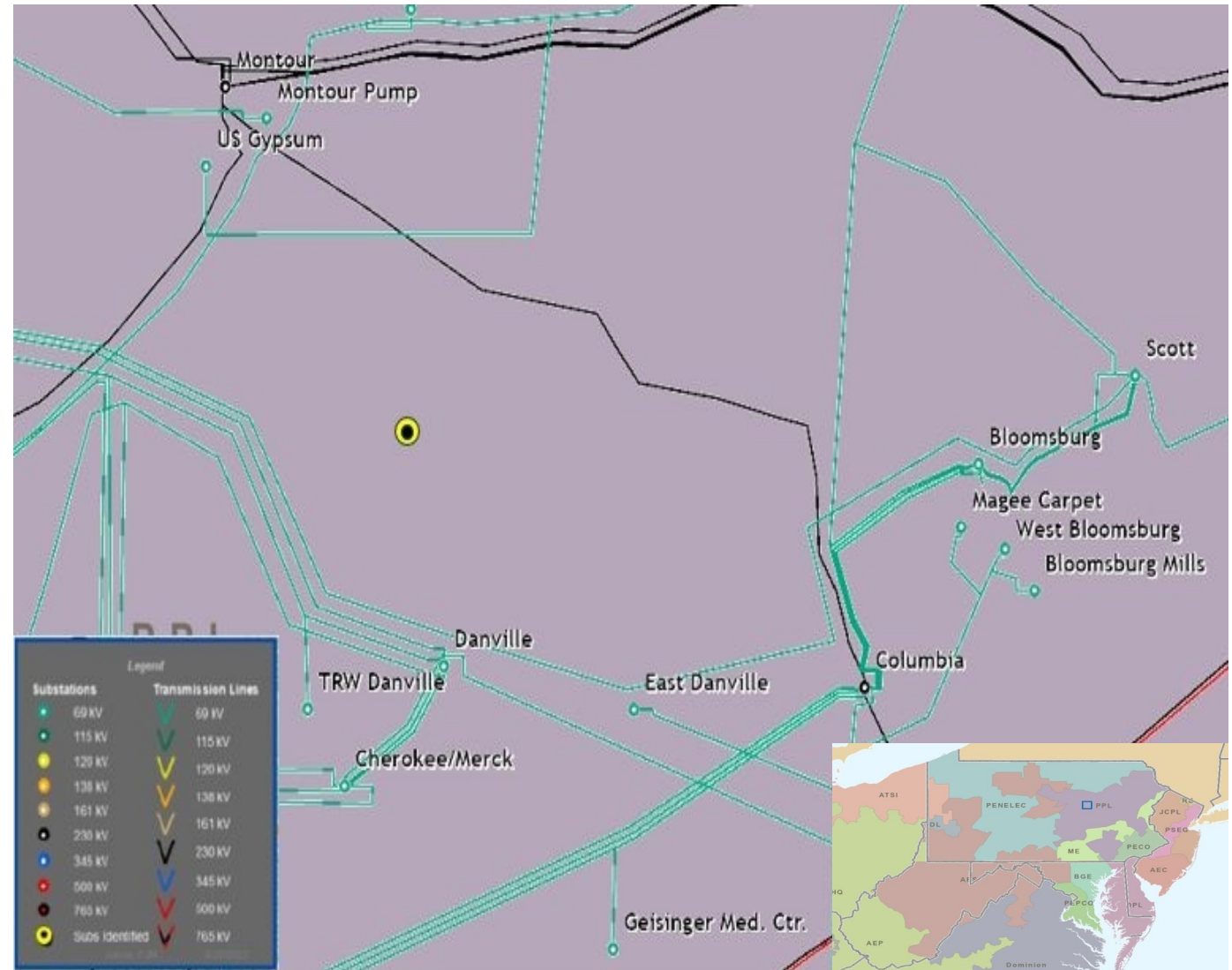
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to service to a new 69-12kV Substation (Mausdale) in Danville, Pennsylvania. The substation is to alleviate existing overloaded distribution feeders and provide operational flexibility. Requested in-service 3/2028.



Need number(s): PPL-2025-0030

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Mausdale Tap: Install new Mausdale 69-12kV substation with two 0.8 mile tap lines utilizing 556 ACSR along the Sunbury-Columbia 1&2 lines. . Estimated Cost: \$3.6 M (s3860.1)

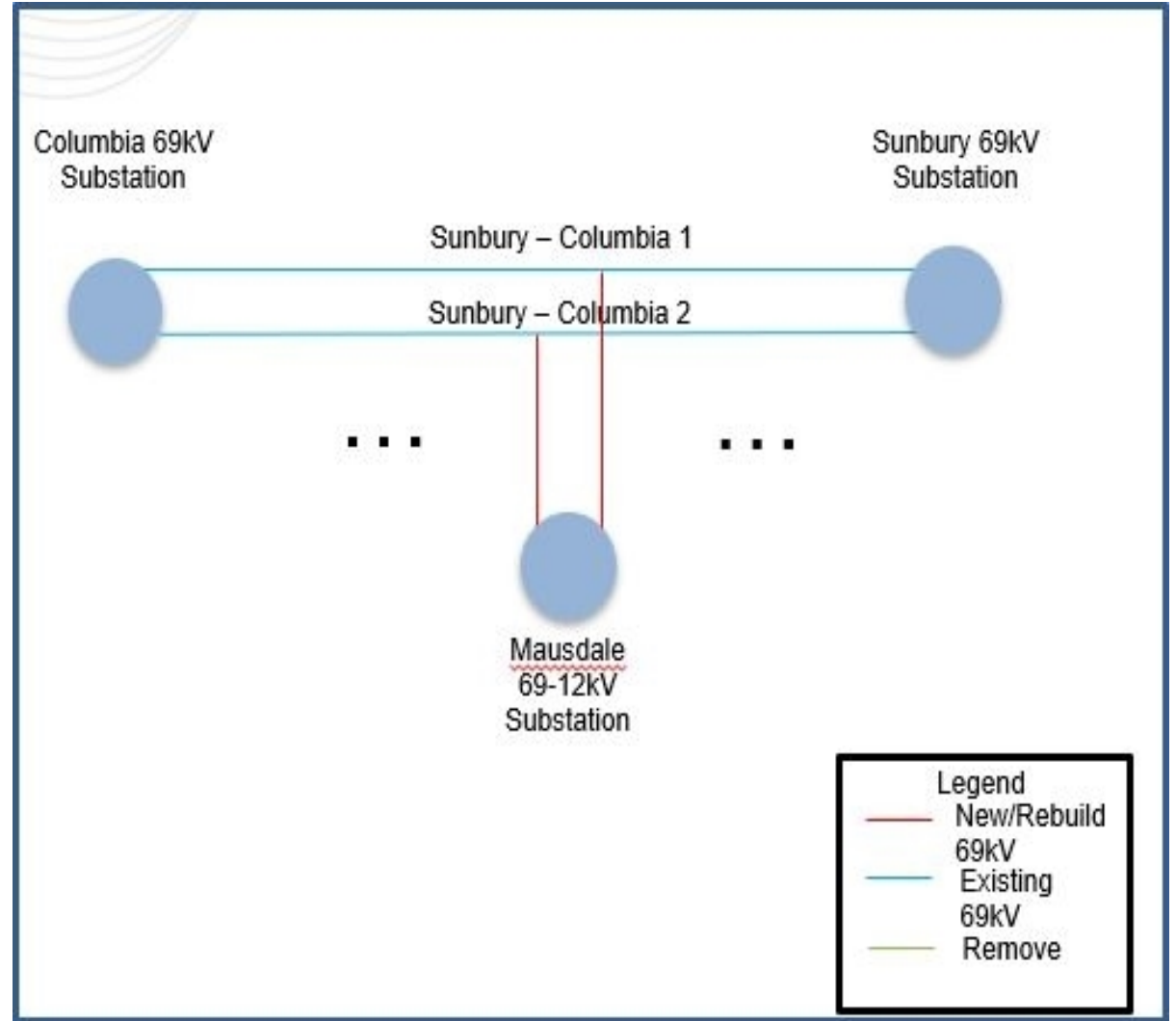
Transmission Cost Estimate: \$3.6 M

Alternatives Considered:

N/A

Projected In-Service: 03/30/2028

Project Status: Engineering



Need Number: PPL-2025-0021

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 09/18/2025

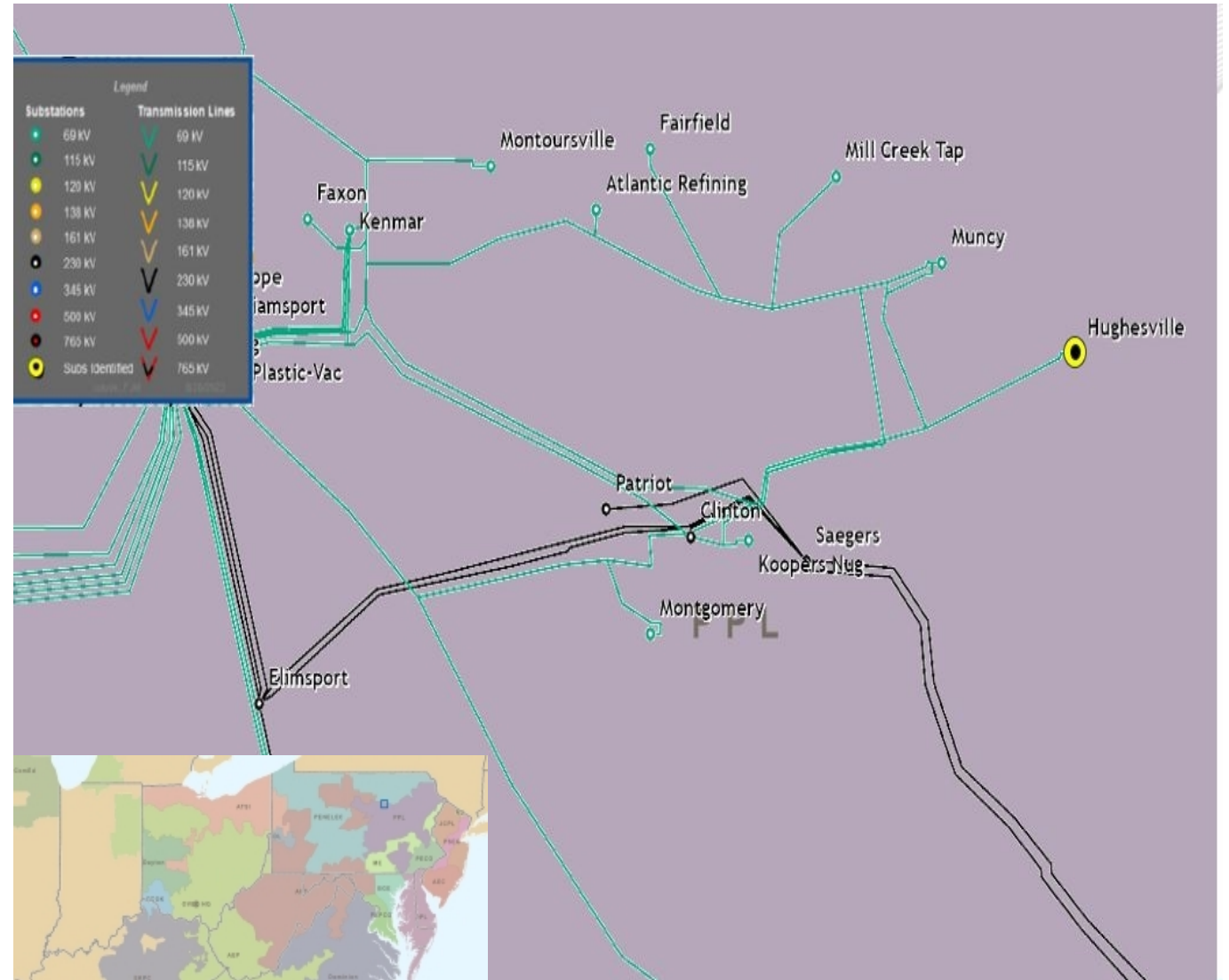
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for a second 69kV feed at Hughesville Substation to increase reliability.





PPL Transmission Zone M-3 Process Hughesville, PA

Need number(s): PPL-2025-0021

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Hughesville 69kV Tap: Extend a new circuit 69kV tap from the existing Clinton-Muncy 2 69kV line to independently interconnect the Hughesville Transformer 2. Customer substation. Build 3.1 miles of new 69kV single circuit line using 556 ACSR conductor.. Estimated Cost: (\$3850.1)

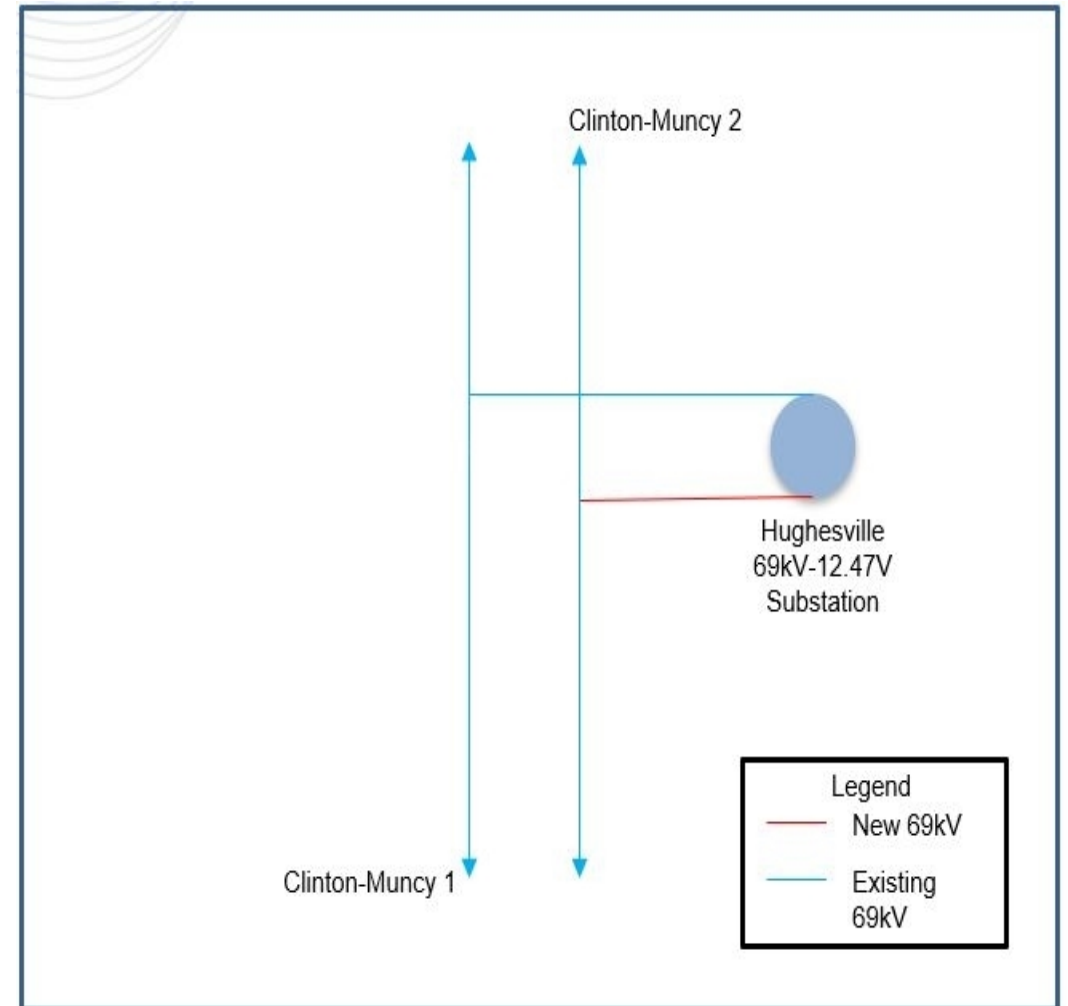
Transmission Cost Estimate:

Alternatives Considered:

N/A

Projected In-Service: 01/30/2028

Project Status: Conceptual



Need Number: PPL-2025-0020

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 09/18/2025

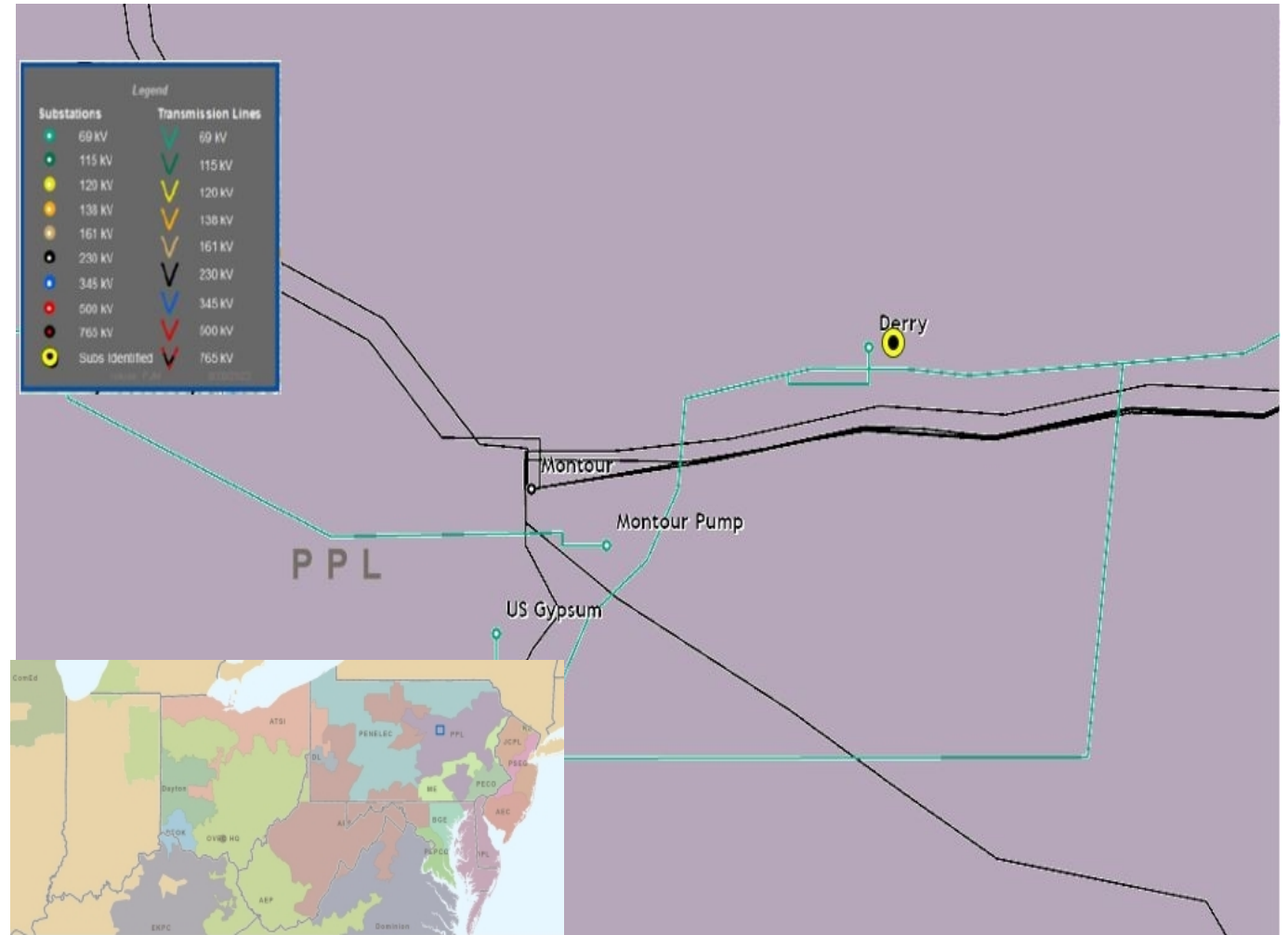
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request to relocate an existing 69-12kV substation from Derry Township, PA to Bloomsburg, PA. The existing station is currently in a high-risk flood plain.



Need number(s): PPL-2025-0020

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Washingtonville 69kV Tap: Extend a new circuit 69kV tap from the existing Milton-Muncy 69kV line to interconnect the new Washingtonville 69-12kV. Build 0.1 miles of new 69kV single circuit line using 556 ACSR conductor. . Estimated Cost: \$1.25 M (s3849.1)

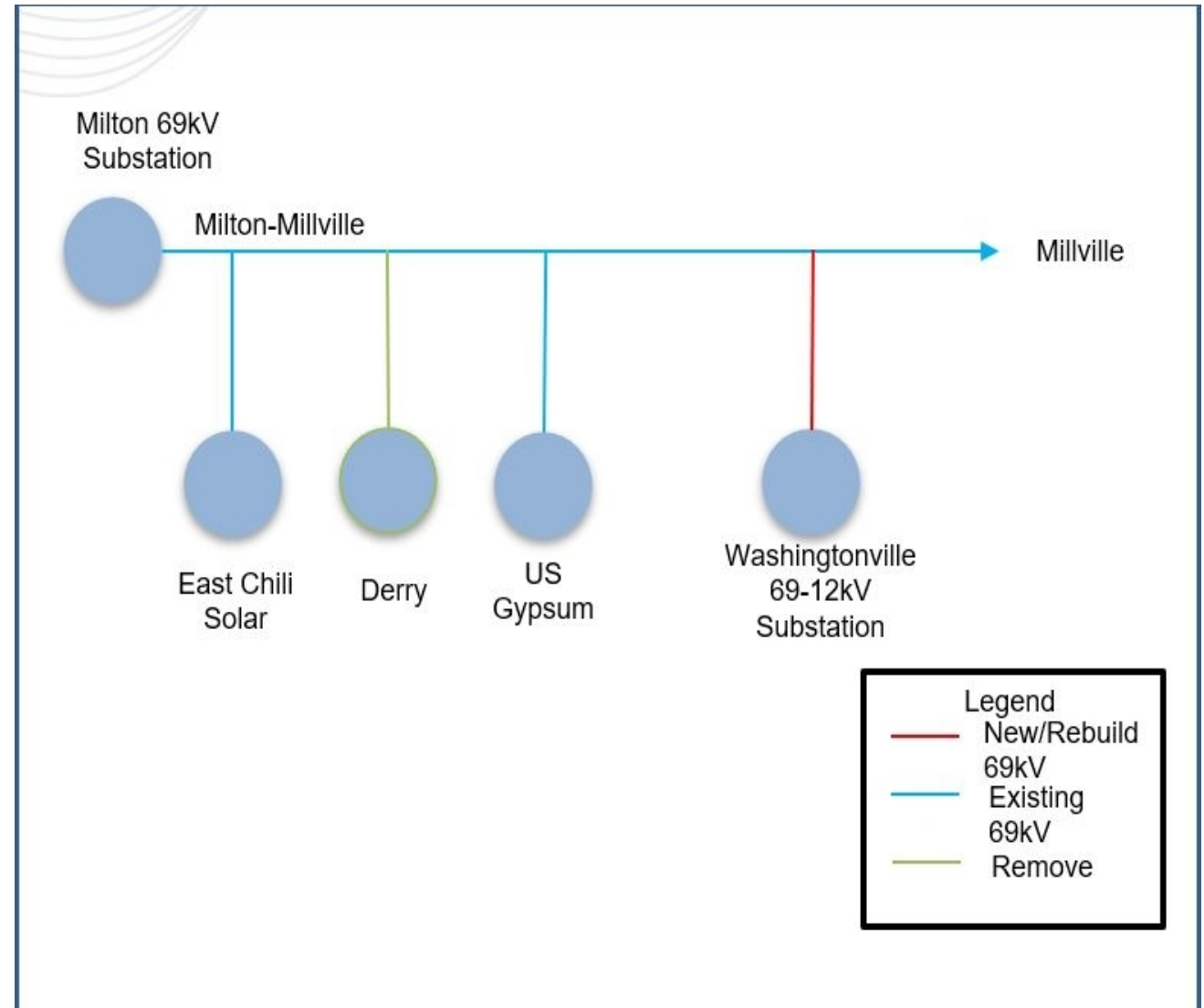
Transmission Cost Estimate: \$1.25 M

Alternatives Considered:

N/A

Projected In-Service: 05/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process Fountain Springs, PA

Need Number: PPL-2025-0028

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 12/11/2025

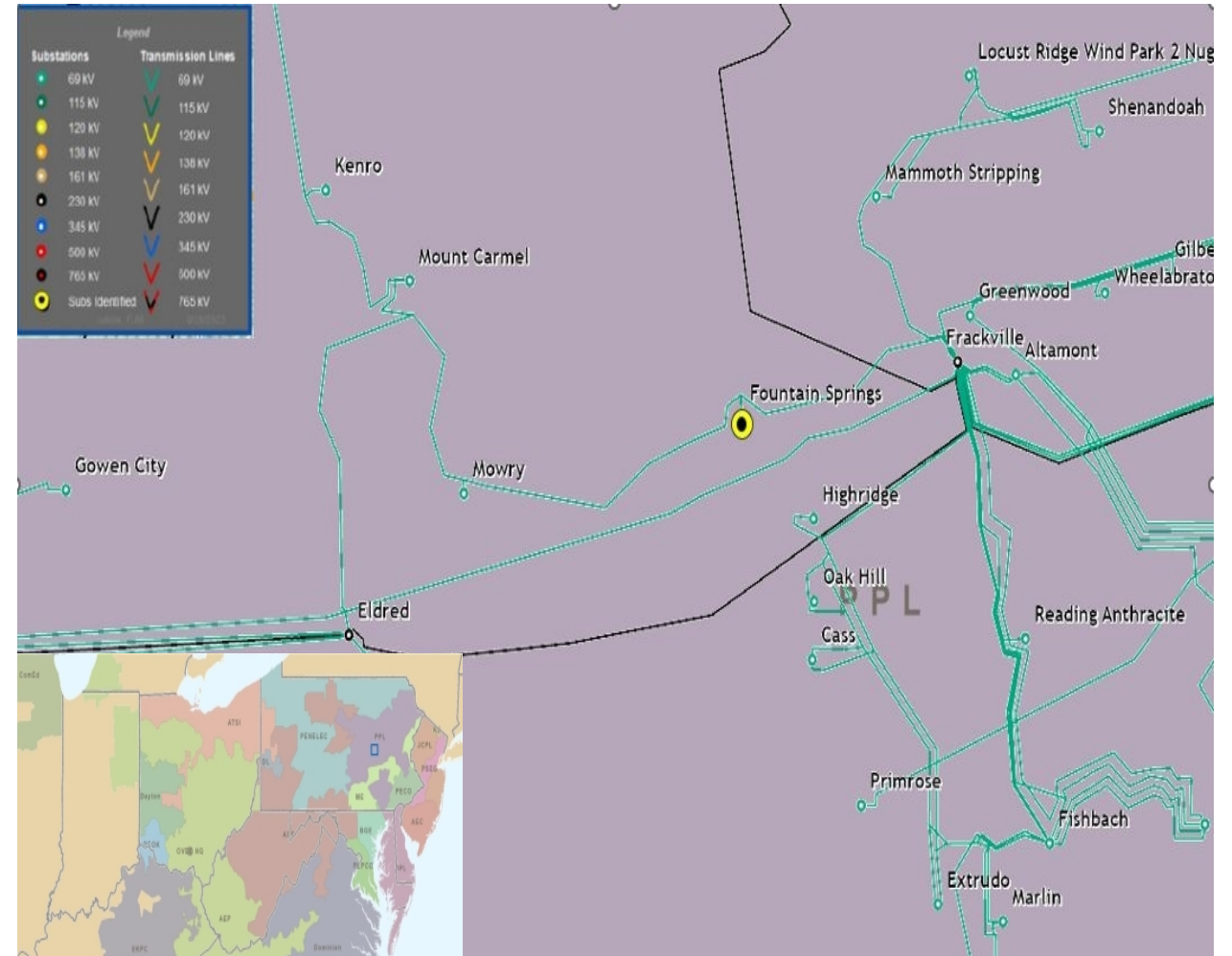
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to energize the on-site spare transformer at Fountain Springs 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.





PPL Transmission Zone M-3 Process Fountain Springs, PA

Need number(s): PPL-2025-0028

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Fountain Spring Tap: Extend The Frackville - Mowry 69kV line 0.1 miles and bring into the Fountain springs Creek 69-12kV Substation, into transformer 1 bay position. Utilizing 556 ACSR. .
Estimated Cost: \$1.6 M (\$3855.1)

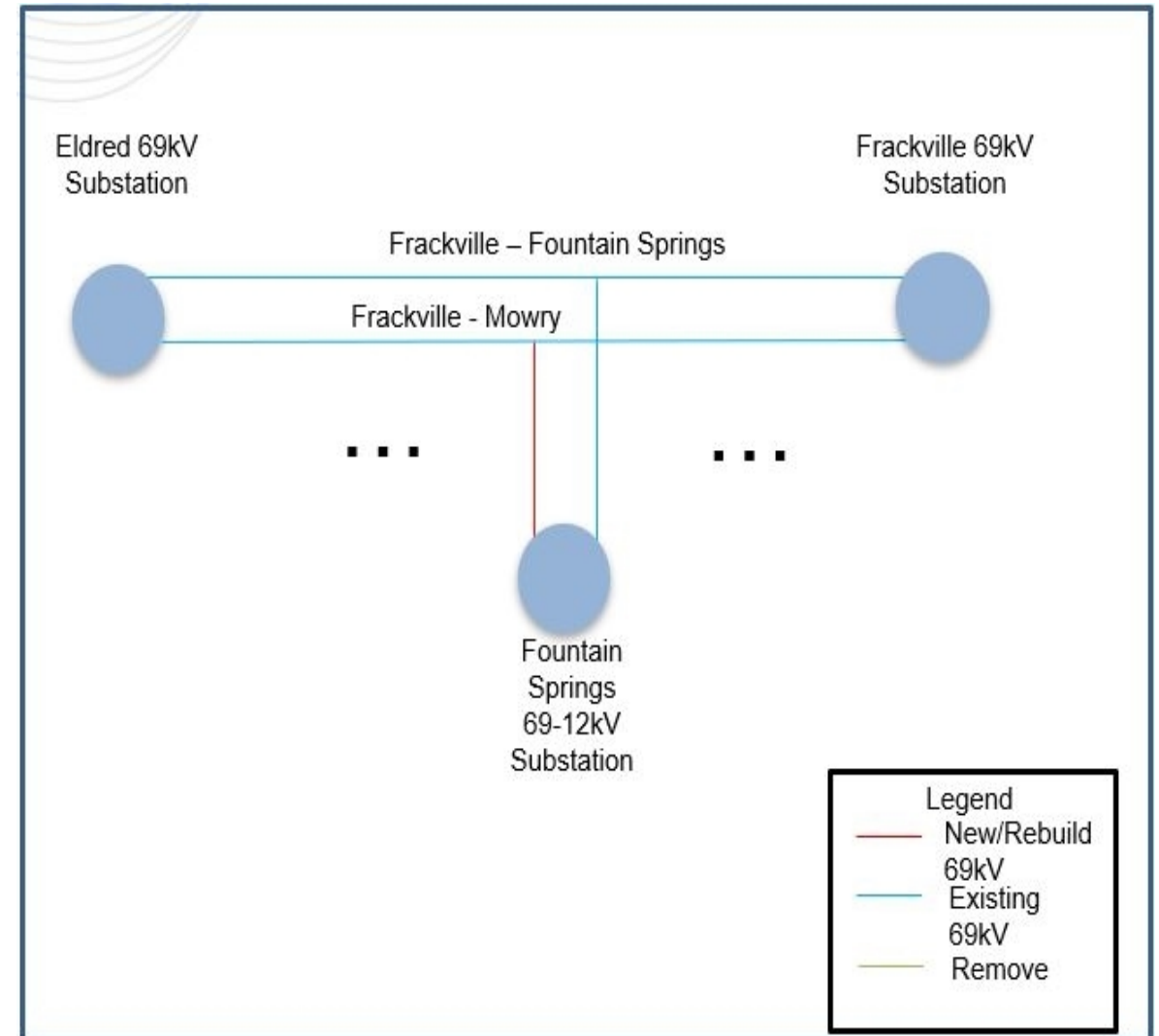
Transmission Cost Estimate: \$1.6 M

Alternatives Considered:

N/A

Projected In-Service: 11/30/2028

Project Status: Conceptual



Need Number: PPL-2025-0029

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 12/11/2025

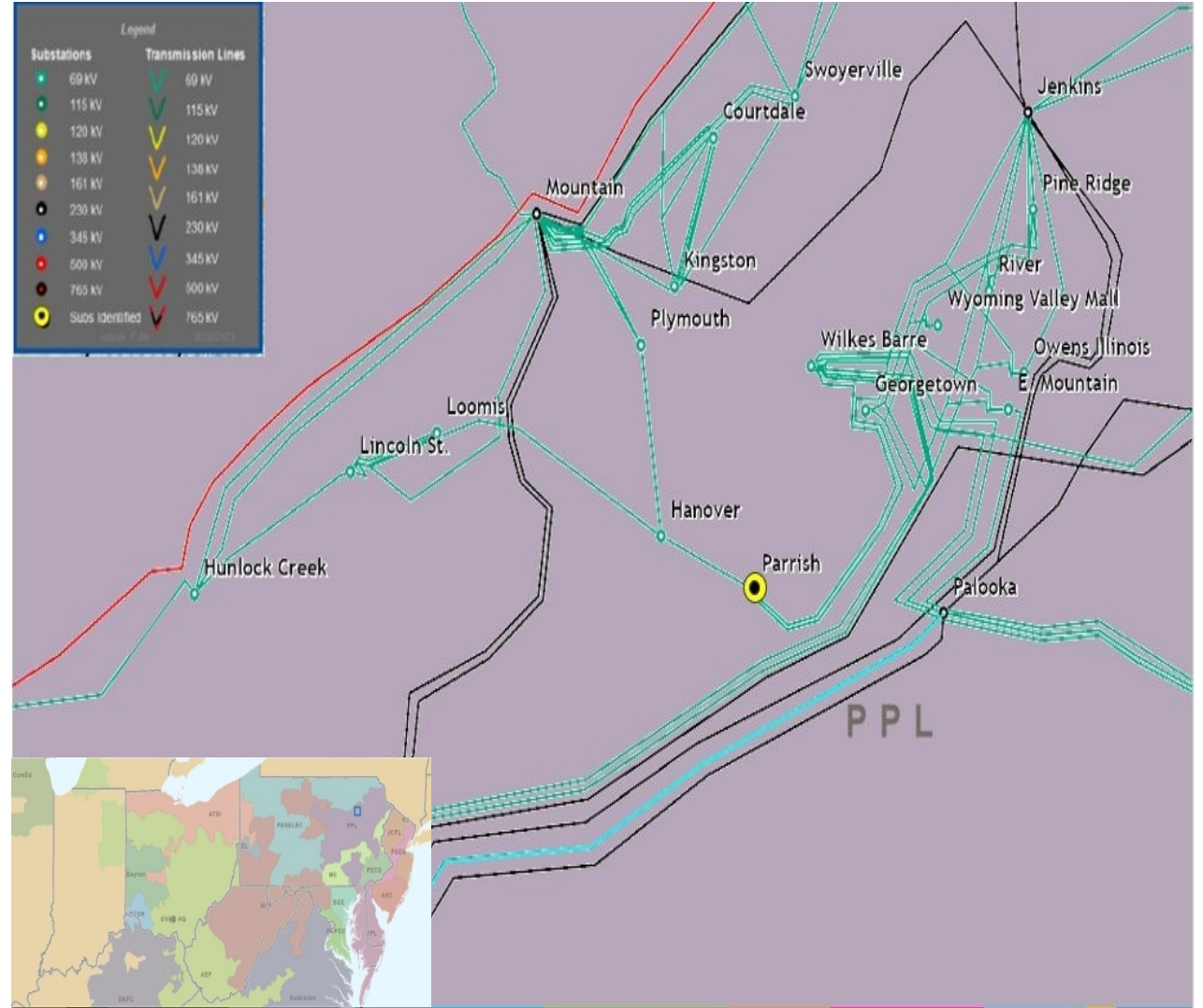
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to energize the on-site spare transformer at Parrish 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.





PPL Transmission Zone M-3 Process Parrish, PA

Need number(s): PPL-2025-0029

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Parrish Tap: Extend Parrish Tap from Harwood-Palooka-Hanover 1 69kV 0.1 miles and bring into the Parrish 69-12kV Substation, into transformer 2 bay position. Utilizing 556 ACSR. . Estimated Cost: \$0.3 M (s3857.1)

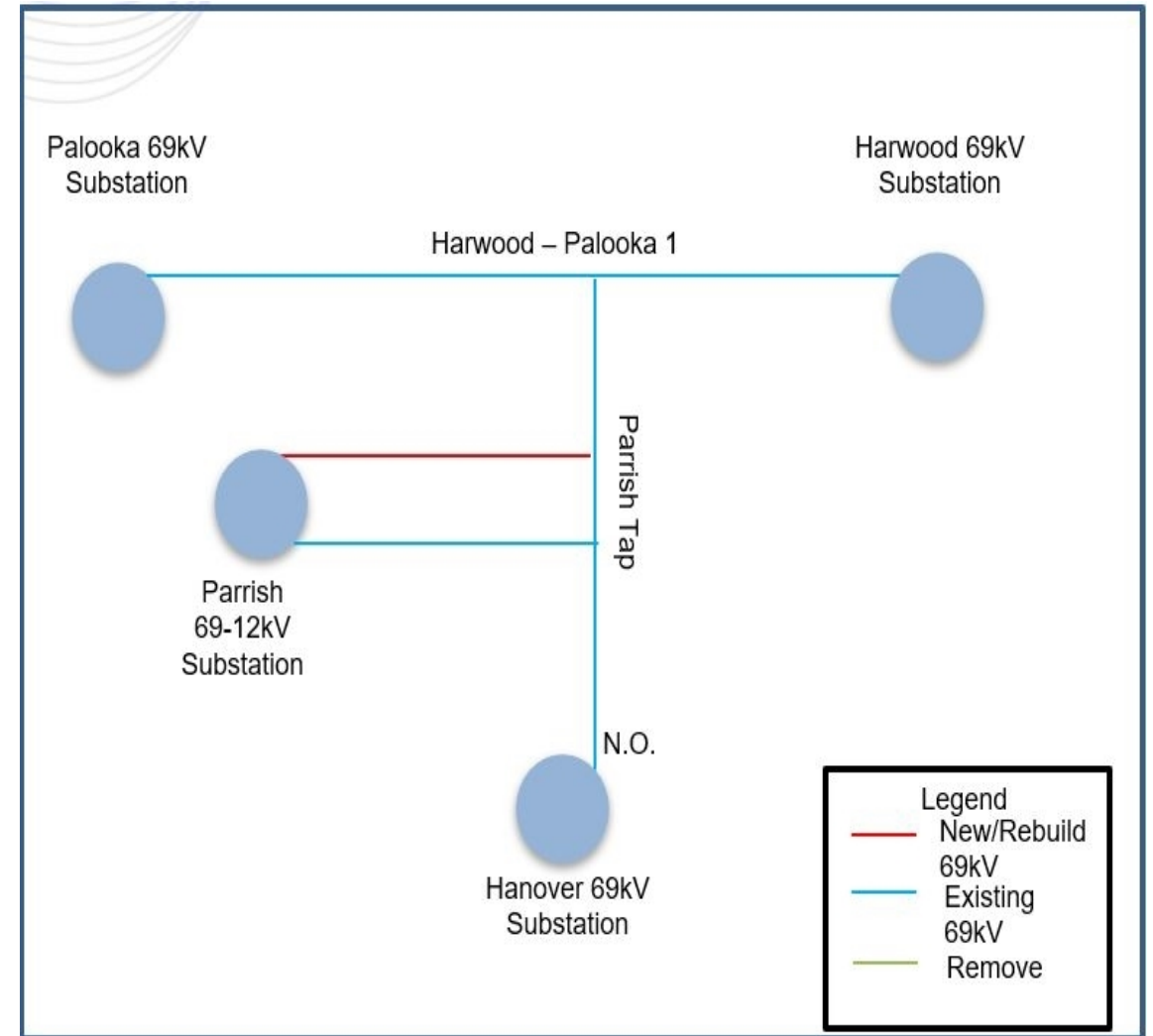
Transmission Cost Estimate: \$0.3 M

Alternatives Considered:

NA

Projected In-Service: 11/30/2028

Project Status: Conceptual



Need Number: PPL-2025-0025

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 10/16/2025

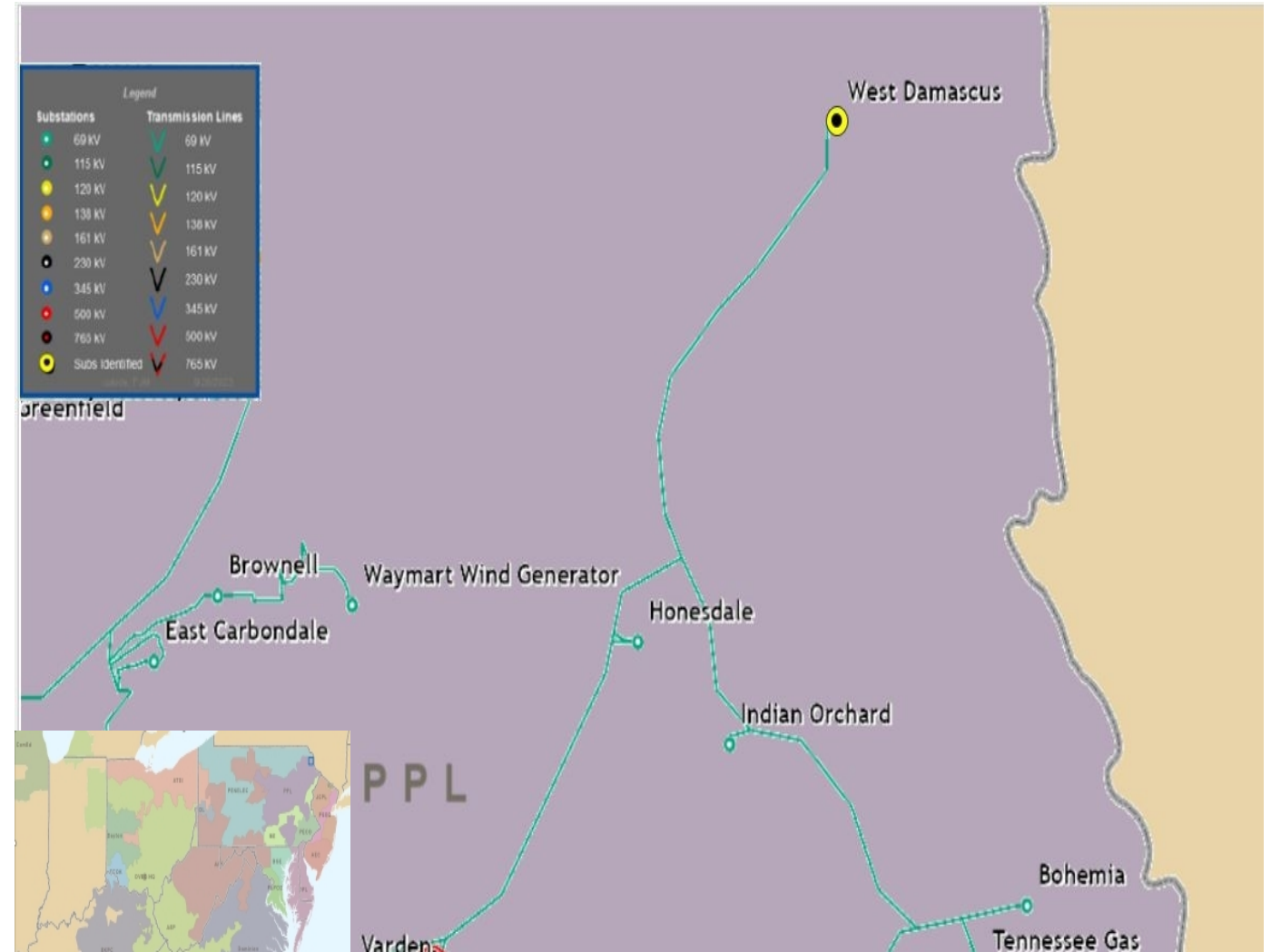
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request to connect an on-site spare transformer with existing transmission line at the West Damascus Station located in Damascus Township, PA.



PPL Transmission Zone M-3 Process West Damascus, PA

Need number(s): PPL-2025-0025

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

West Damascus Tap 2: Extend new circuit from Tap Pole into West Damascus Substation transformer 2.. Estimated Cost: \$0.5 M (s3852.1)

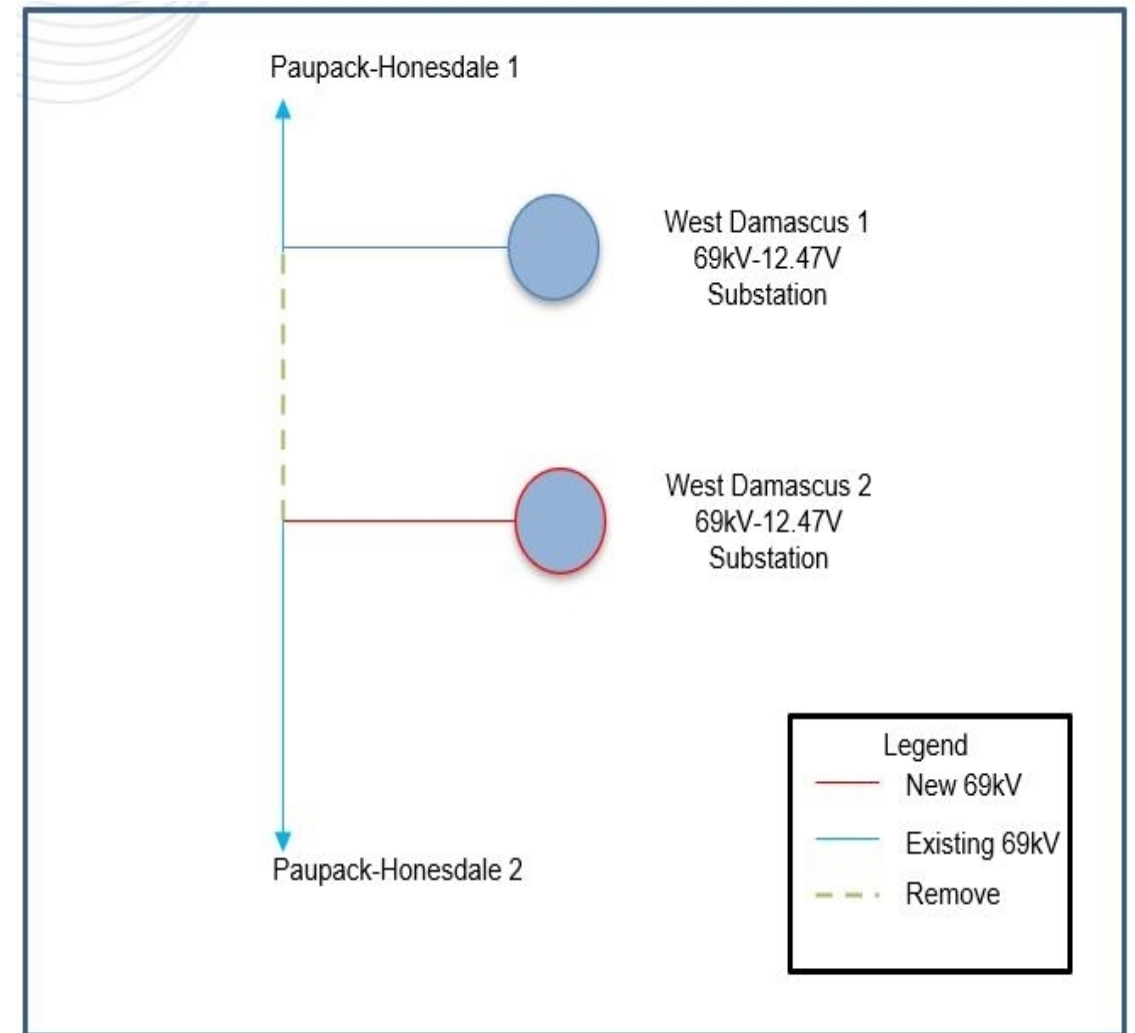
Transmission Cost Estimate: \$0.5 M

Alternatives Considered:

N/A

Projected In-Service: 05/26/2027

Project Status: Engineering

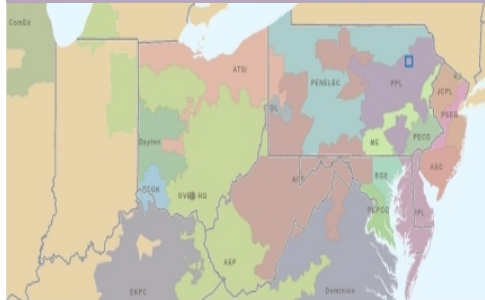




Bear Creek, PA

PPL 2025 Annual Assumptions

PPL Distribution is requesting to energize the on-site spare transformer at Bear Creek 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 11/2028.





PPL Transmission Zone M-3 Process Bear Creek, PA

Need number(s): PPL-2025-0027

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Bear Creek Tap: Extend The Palooka-Jenkins 2 69kV Bear Creek Tap 2.3 miles and bring into the Bear Creek 69-12kV Substation, into transformer 2 bay position. Utilizing 556 ACSR. . Estimated Cost: \$8 M (s3854.1)

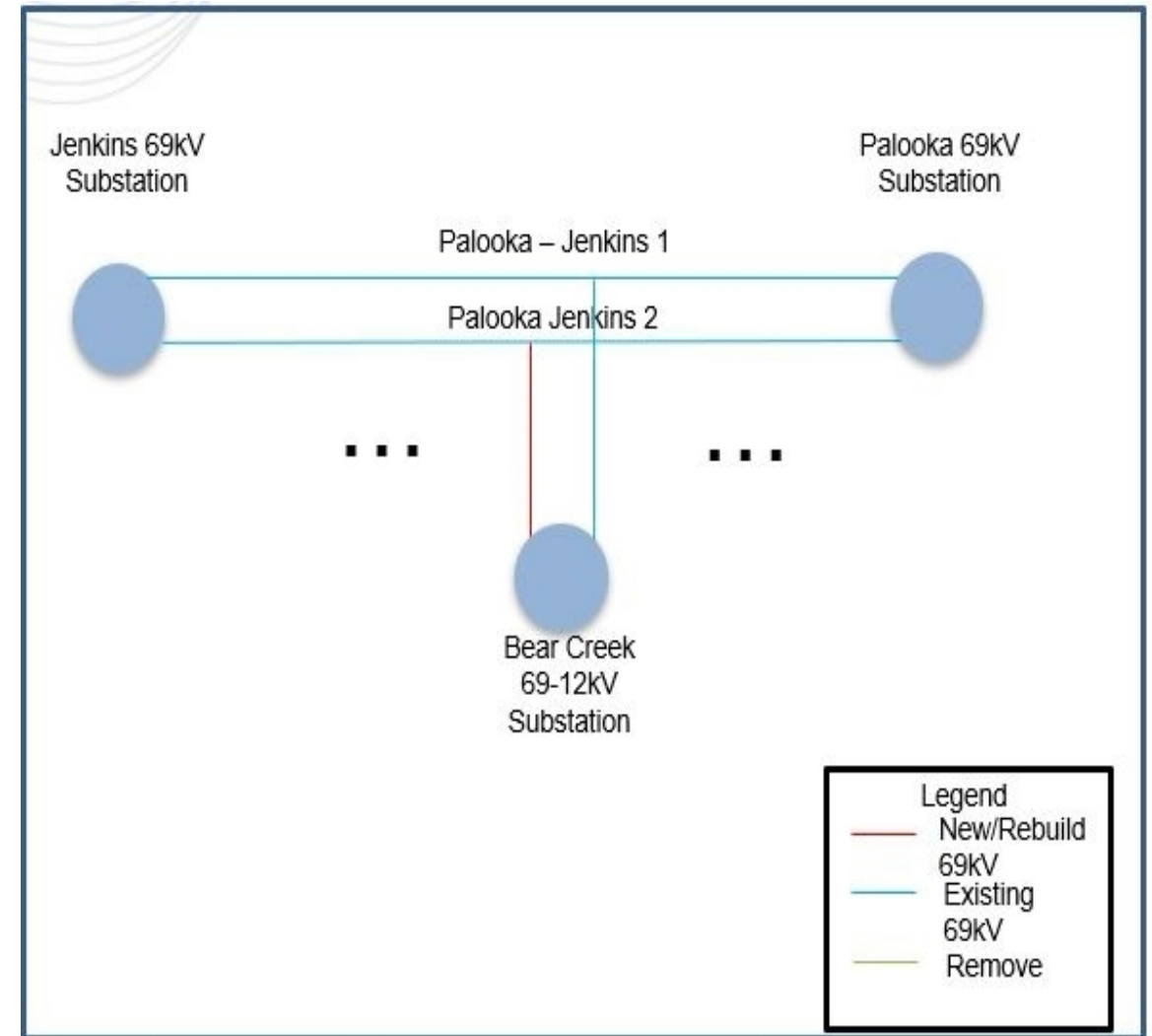
Transmission Cost Estimate: \$8 M

Alternatives Considered:

N/A

Projected In-Service: 11/30/2028

Project Status: Conceptual



Need Number: PPL-2025-0026

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 12/11/2025

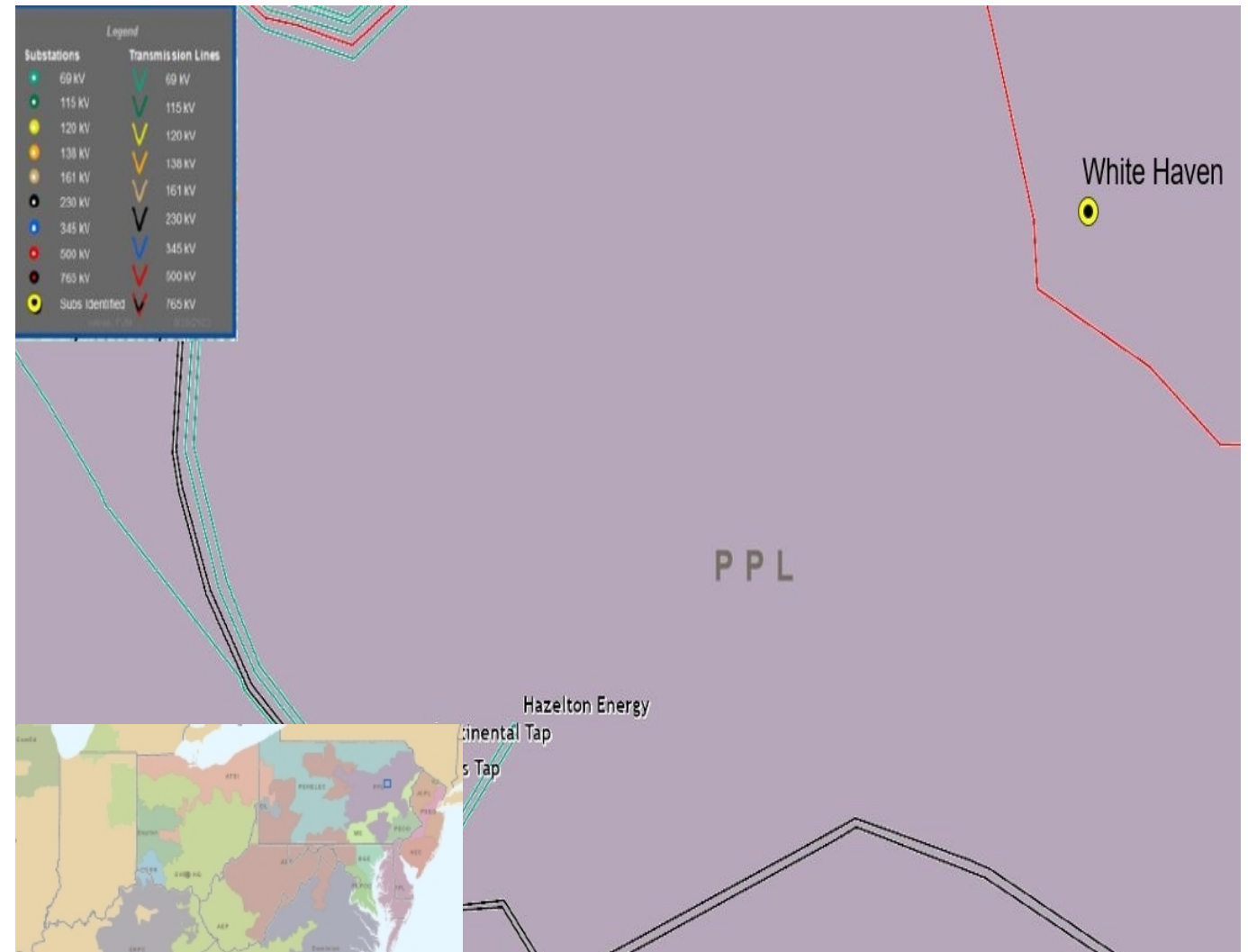
Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to energize the on-site spare transformer at White Haven 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 12/2026.





PPL Transmission Zone M-3 Process White Haven, PA

Need number(s): PPL-2025-0026

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

White Haven Tap: Extend Harwood - East Hazleton 2 0.1 miles from first structure outside of station, into transformer 2 bay position. Utilizing 556 ACSR. . Estimated Cost: \$0.3 M (\$3853.1)

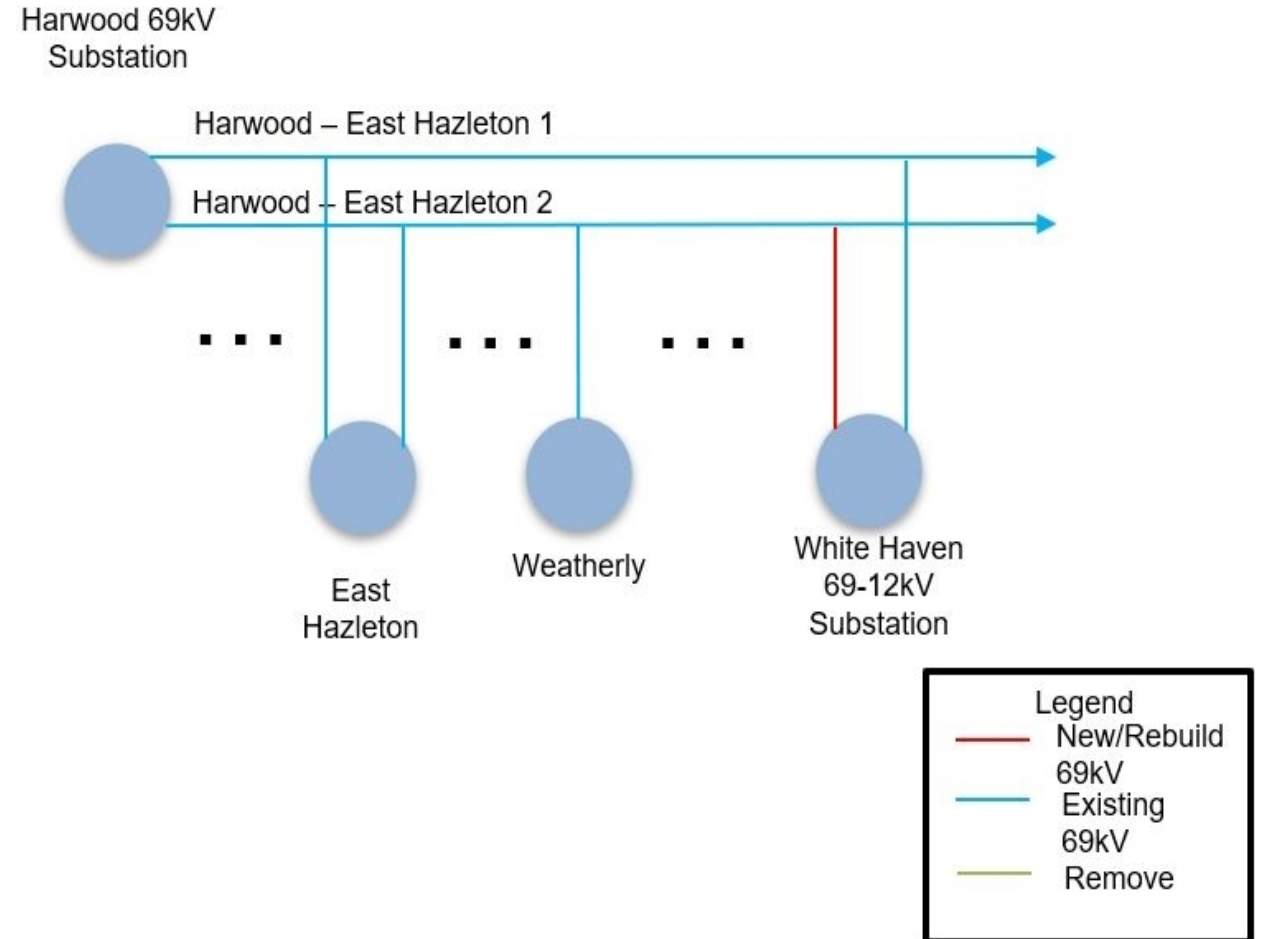
Transmission Cost Estimate: \$0.3 M

Alternatives Considered:

N/A

Projected In-Service: 12/01/2026

Project Status: Engineering



Need Number: PPL-2026-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 01/15/2026

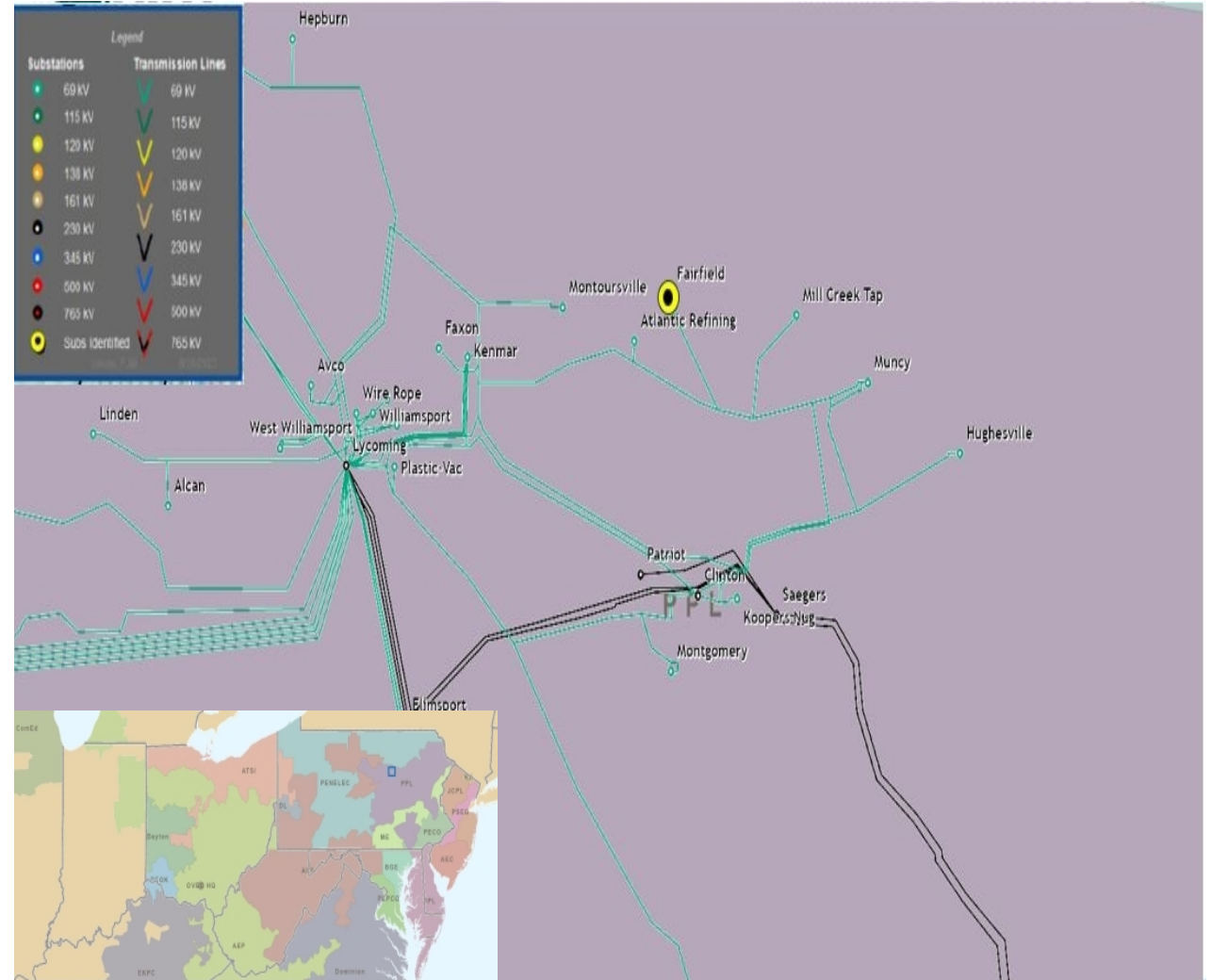
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to energize the on-site spare transformer at Fairfield 69-12kV Substation to improve operational flexibility and reliability. Requested in-service 10/8/2028.



Need number(s): PPL-2026-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

Fairfield Tap: Extend The Lycoming 2 - Muncy-Tie 69kV Fairfield Tap 0.1 miles utilizing 556 ACSR and bring into the Fairfield 69-12kV Substation, into transformer 2 bay position.. Estimated Cost: \$0.2 M (s3856.1)

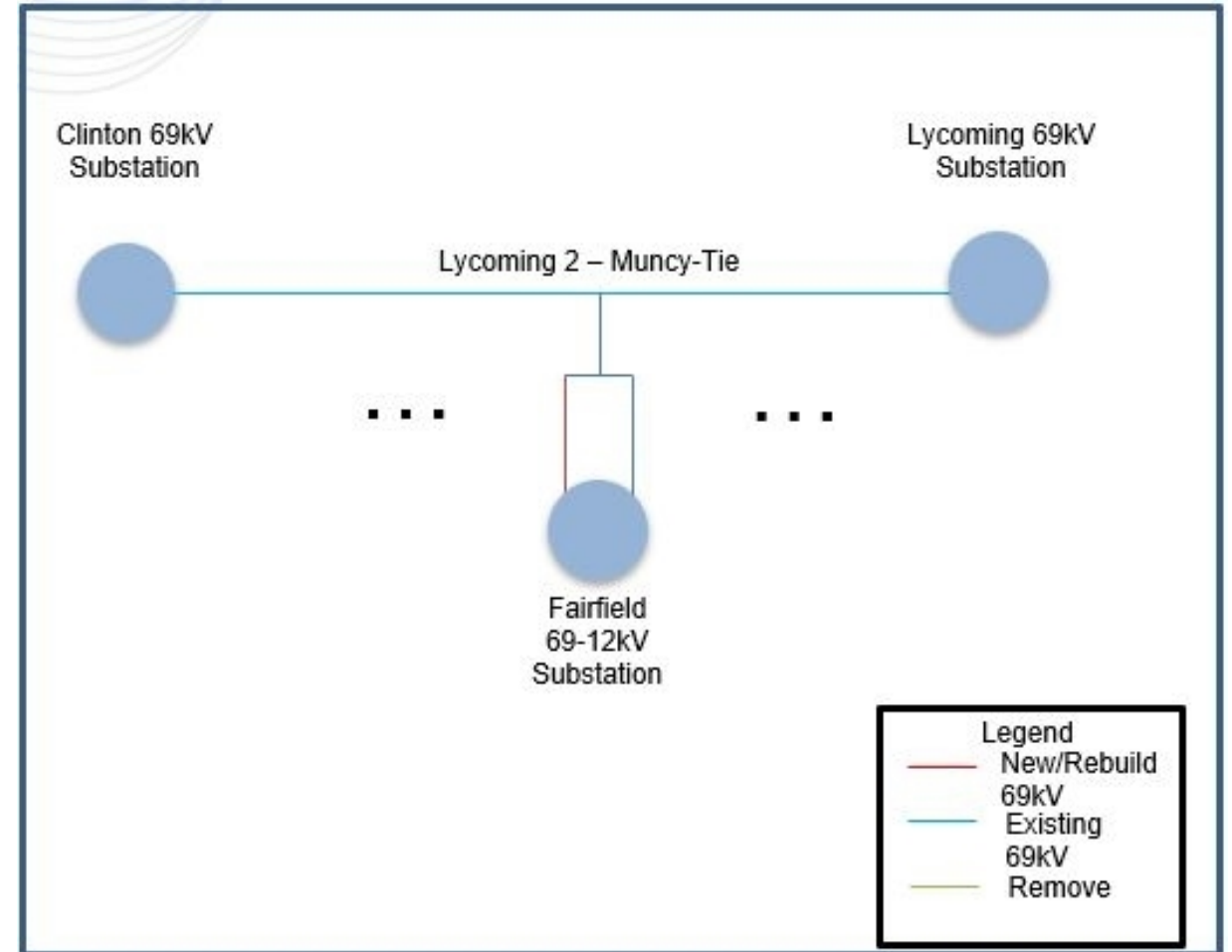
Transmission Cost Estimate: \$0.2 M

Alternatives Considered:

N/A

Projected In-Service: 10/08/2028

Project Status: Conceptual



Need Number: PPL-2026-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Previously Presented: Need Meeting 01/15/2026

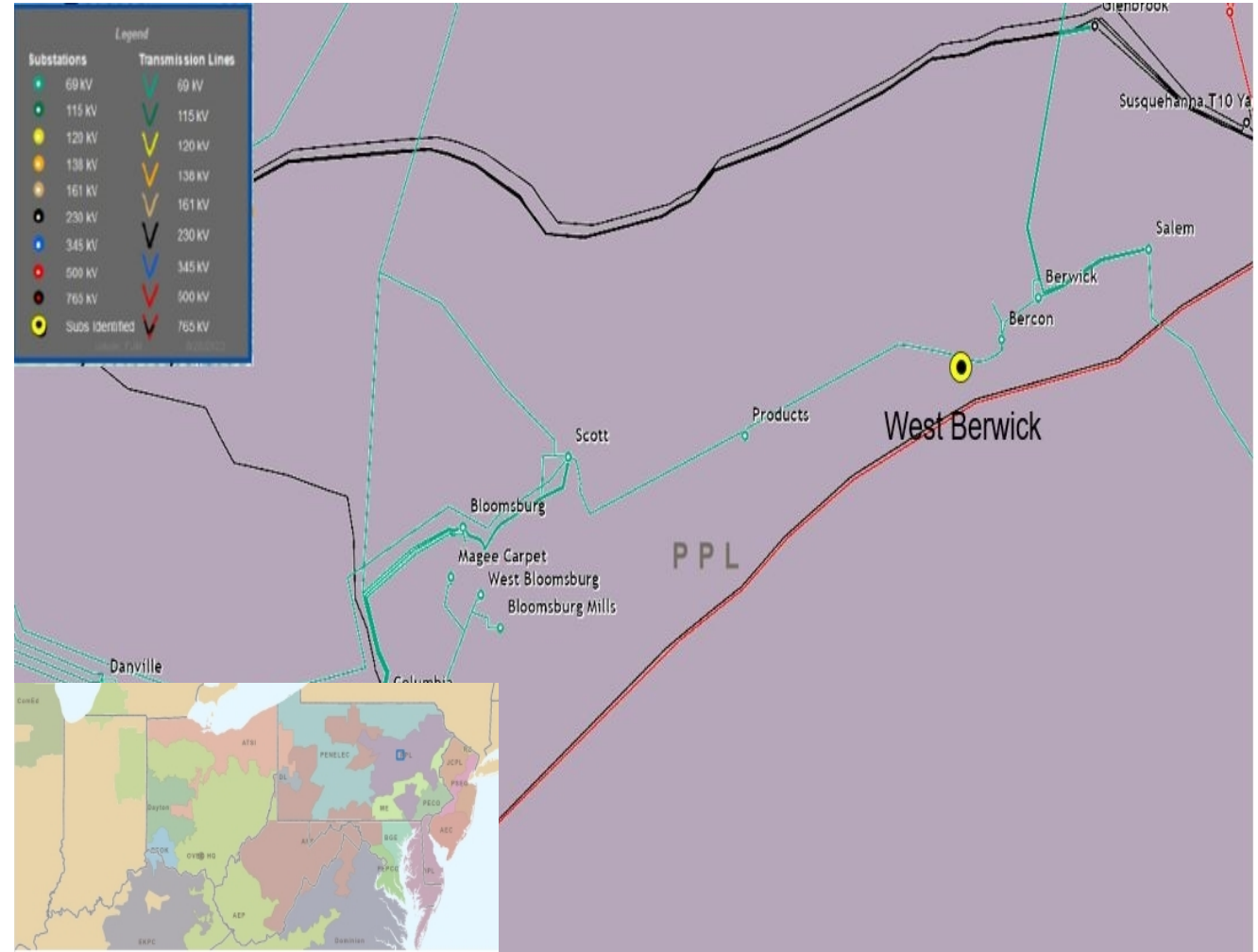
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the West Berwick 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 11/30/2028.





PPL Transmission Zone M-3 Process West Berwick, PA

Need number(s): PPL-2026-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 05/20/2026

Proposed Solution:

West Berwick Tap: Extend The Columbia-Glen Brook 2 69kV West Berwick Tap 0.1 miles utilizing 556 ACSR and bring into the West Berwick 69-12kV Substation, into transformer 2 bay position..
Estimated Cost: \$0.1 M (\$3858.1)

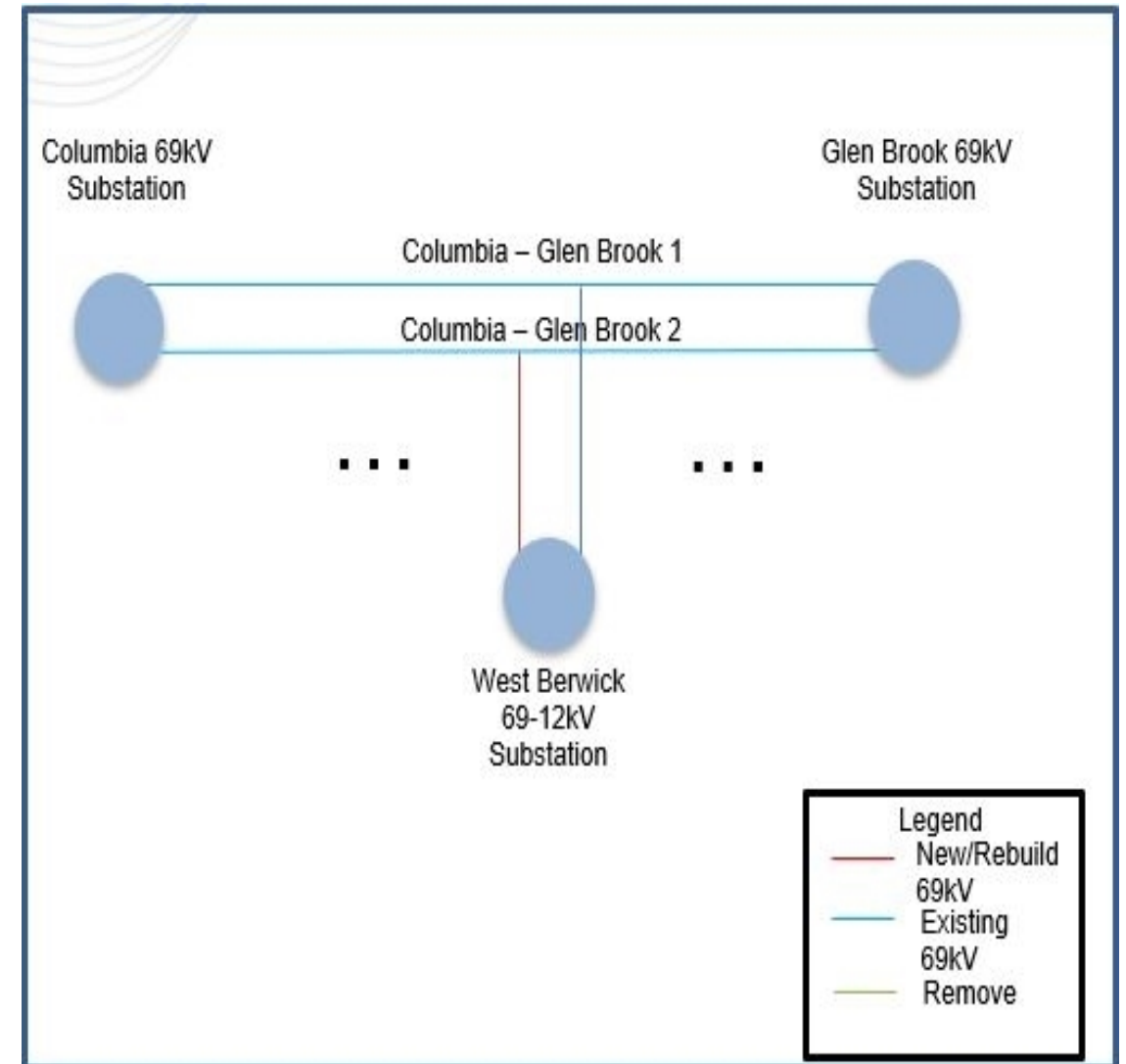
Transmission Cost Estimate: \$0.1 M

Alternatives Considered:

N/A

Projected In-Service: 11/30/2028

Project Status: Conceptual





PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need Number: PPL-2025-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 09/09/2025. Need Meeting 07/08/2025

Project Driver: Customer Service

Specific Assumption References:

PPL 2025 Annual Assumptions

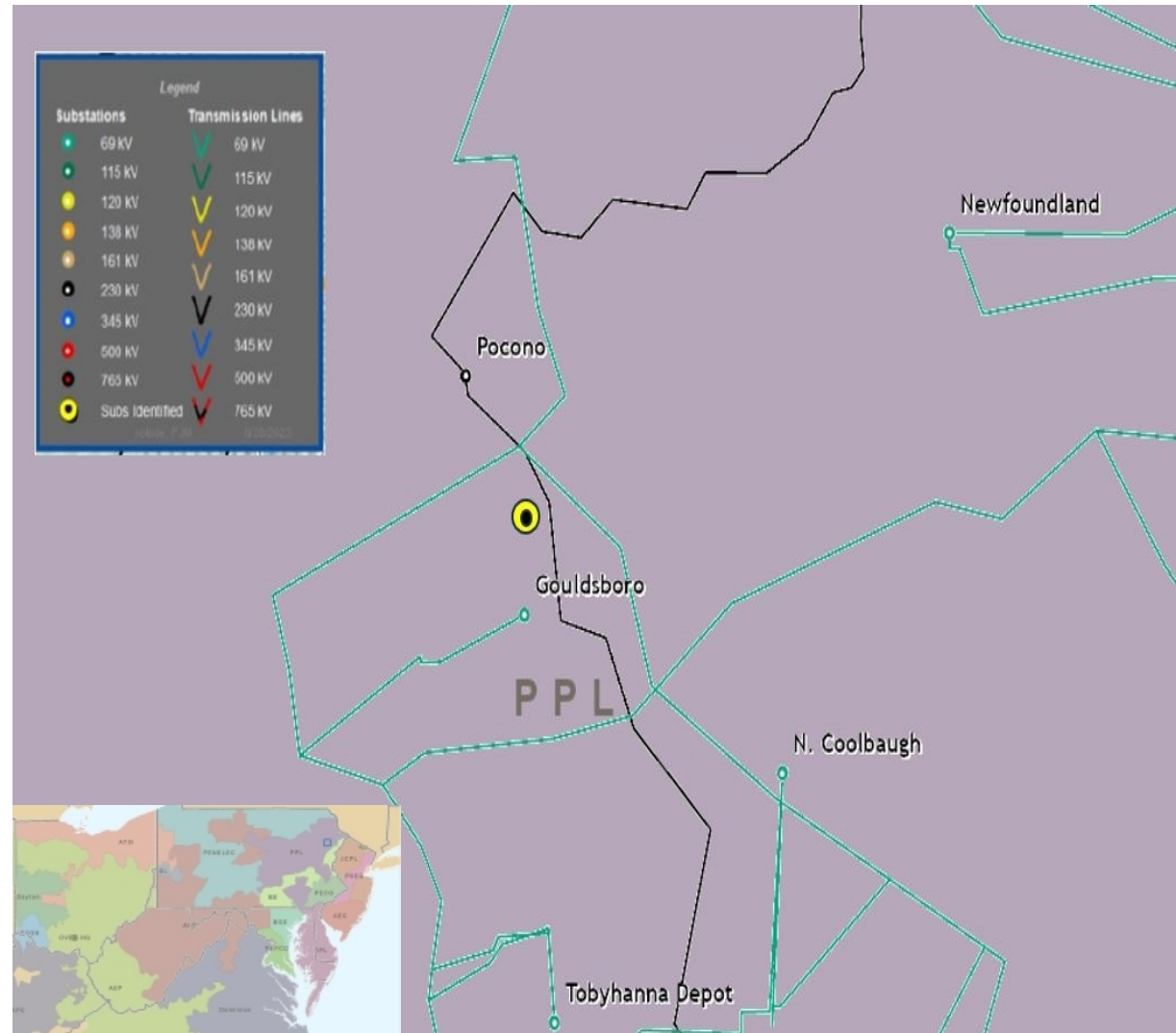
Problem Statement:

A customer has submitted a request to have their facility served from a 230kV source in Gouldsboro, PA. The total facility load is approximately 1,500 MW (2030). The requested in-service date is 05/2027.

Initial In-service 2027 Load: 300MW

Projected 2028 Load: 700MW

Projected 2030 Load: 1,500MW



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Big Bass 230kV Switchyard (s3819.1)

- Install a six bay BAAH 230kV switchyard with two 125MVAR Capacitor banks
- Estimated Cost: \$50 M

Big Bass 230kV Customer Lead Lines (s3819.2)

- Install three 230kV lead lines for approximately 0.2 miles from Big Bass 230kV switchyard to each of the customer's two substations (six lines total)
- Estimated Cost: \$8 M

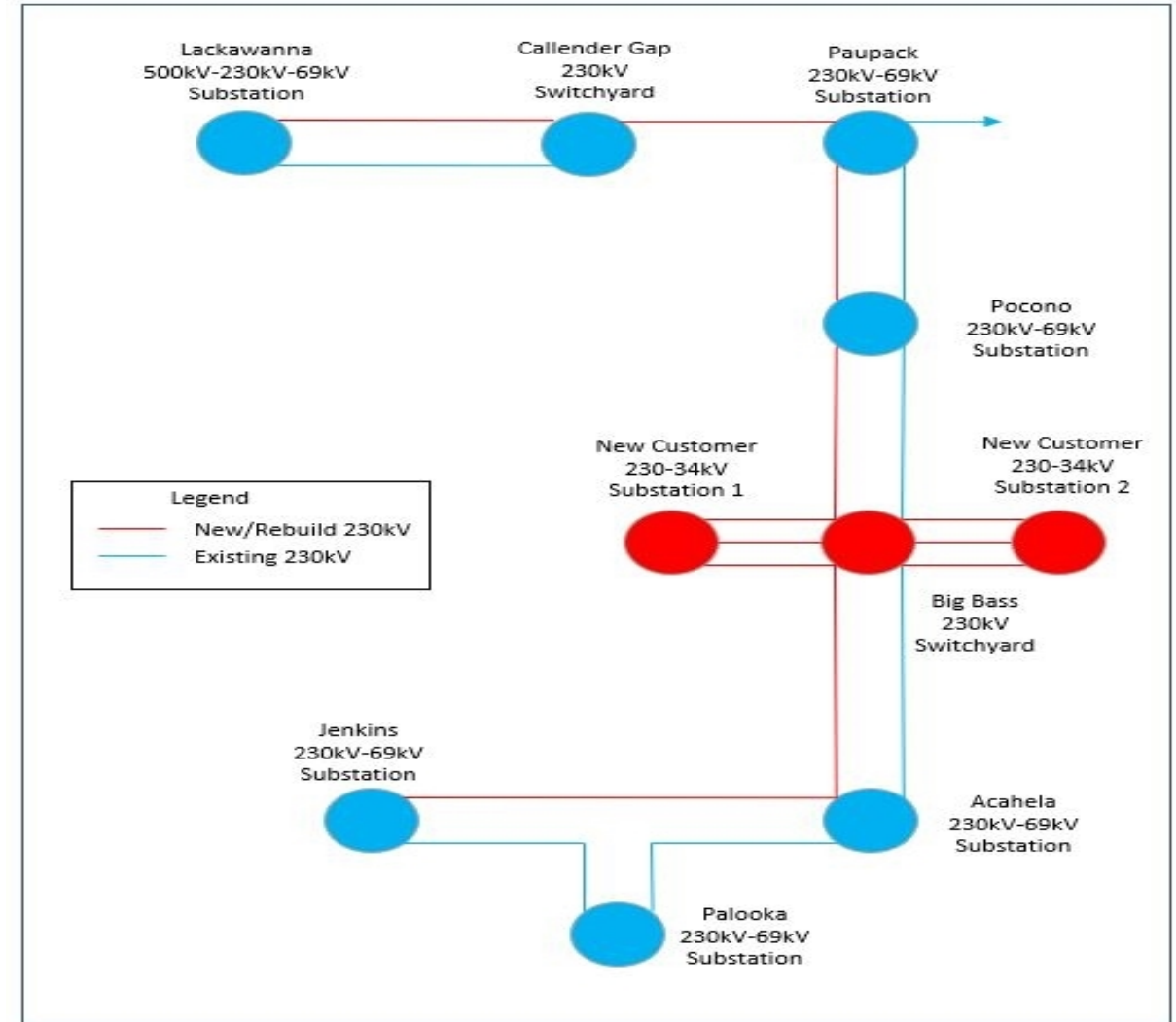
Jenkins 230kV Substation (s3819.3)

- Build out bay #2 at Jenkins 230kV yard and install one new 230kV breaker, two MODs, and ancillary equipment
- Estimated Cost: \$1.25 M

Re-terminate Jenkins - Palooka 230kV line (s3819.4)

- Re-terminate the JENK-PALO 230kV line from bay 3 to bay 2 at Jenkins 230kV yard
- Estimated Cost: \$1 M

New Jenkins - Acahela 230kV Line (s3819.5)



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Proposed Solution: Continued from previous slide...

- Install the second circuit on the existing single circuit, future double circuit, sections of Jenkins - Palooka and Palooka - Acahela 230kV lines between Jenkins and Acahela (15 miles)
- Estimated Cost: \$18.75 M

Acahela 230kV Substation (s3819.6)

- Install a new DBDB (BAAH ultimate) bay at Acahela 230kV yard. Install two breakers, one dead-end, and ancillary equipment. Build out bay #3 and install one new 230kV breaker, two MODs, and ancillary equipment
- Estimated Cost: \$3.75 M

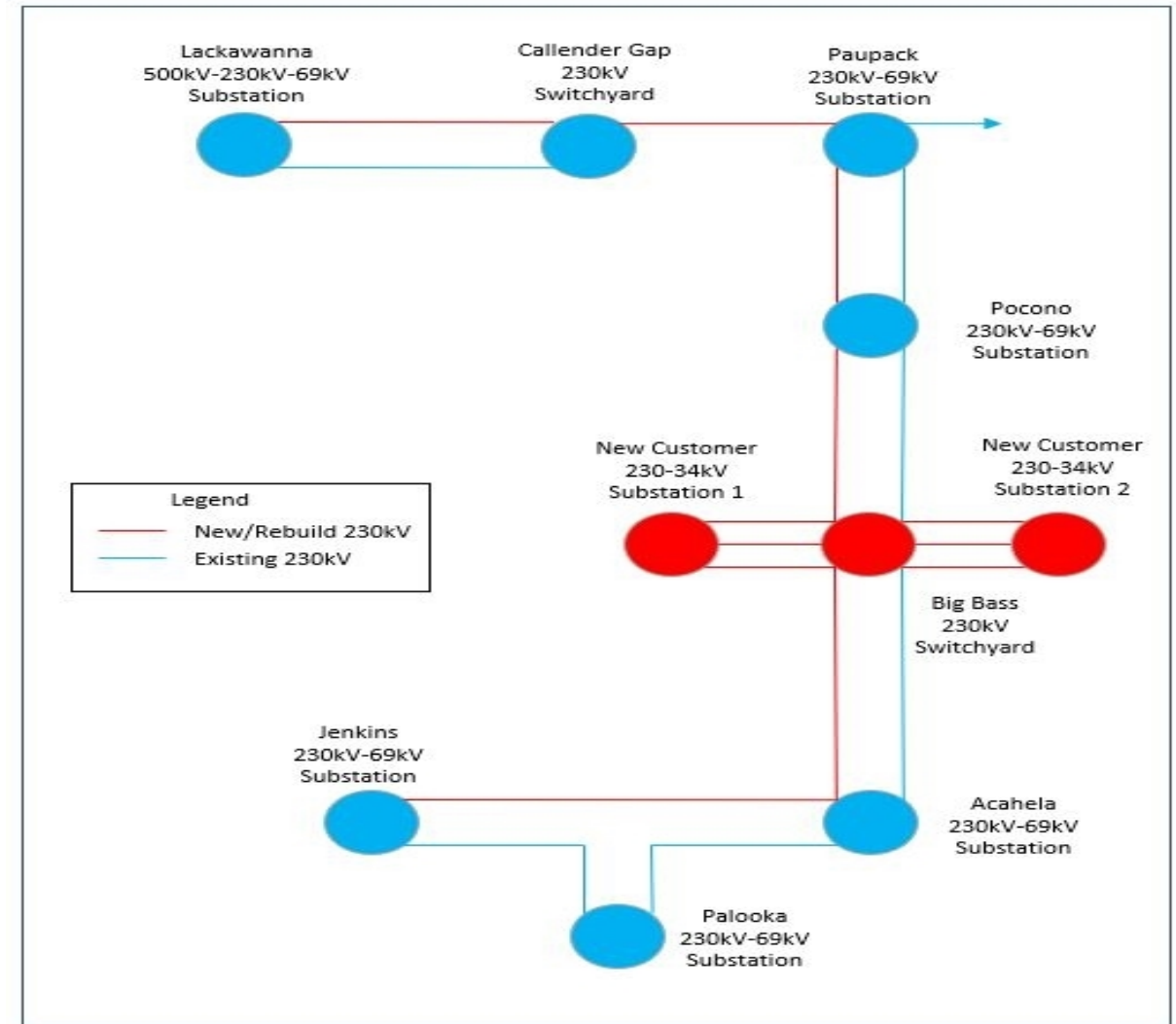
Bifurcate Acahela - Pocono 230kV line (s3819.7)

- Bifurcate Acahela - Pocono 230kV line into the new Big Bass 230kV switchyard (~0.25 miles)
- Estimated Cost: \$3 M

New Acahela - Big Bass #2 230kV Line (s3819.8)

- Install the second circuit on the existing single circuit, future double circuit, Acahela - Big Bass 230kV line between Acahela and Big Bass (12.9 miles)
- Estimated Cost: \$16.125 M

New Big Bass - Pocono #2 230kV Line (s3819.9)



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Proposed Solution: Continued from previous slide...

- Install the second circuit on the existing single circuit, future double circuit, Big Bass - Pocono 230kV line between Big Bass and Pocono (7.25 miles)
- Estimated Cost: \$9.1 M

Pocono 230kV Substation (s3819.10)

- Install a new DBDB (BAAH ultimate) bay at Pocono 230kV yard. Install two breakers, one dead-end, and ancillary equipment. Build out bay #3 and install one new 230kV breaker, two MODs, and ancillary equipment
- Estimated Cost: \$3.75 M

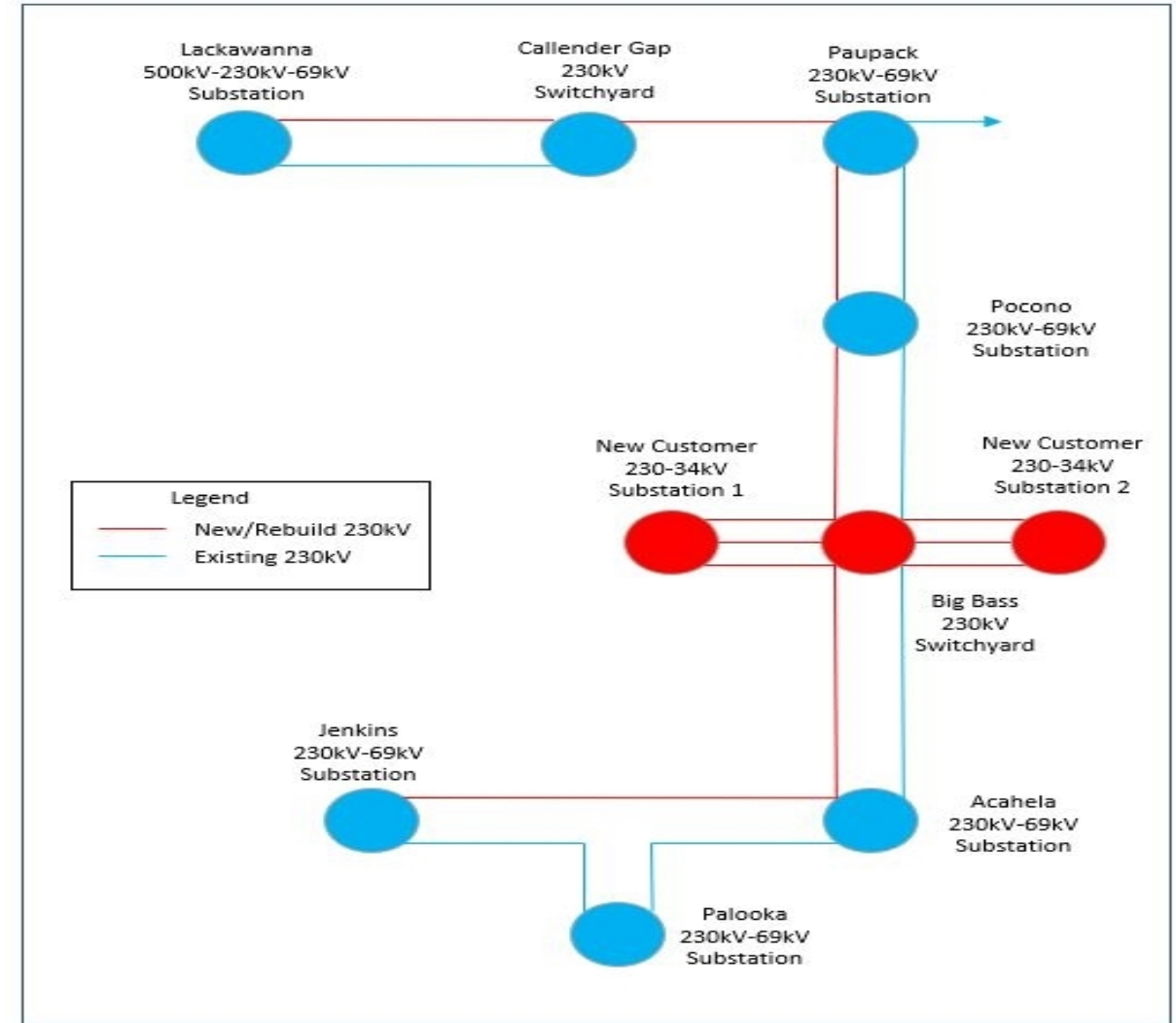
New Paupack - Pocono #2 230kV Line (s3819.11)

- Install the second circuit on the existing single circuit, future double circuit, Paupack - Pocono 230kV line between Paupack and Pocono (21.75 miles)
- Estimated Cost: \$27.5 M

Paupack 230kV Substation (s3819.12)

- Build out bay #2 at Paupack 230kV yard and install one new 230kV breaker, one dead-end, and ancillary equipment. Replace four MODs in Bay 3 at Paupack 230kV
- Estimated Cost: \$2.9 M

Upgrade Lackawanna - Callender Gap 230kV Line (s3819.13)



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Proposed Solution: Continued from previous slide...

- Add two subconductors to each phase in the 500kV designed section of the Lackawanna - Callender Gap 230kV line for ~ 3 miles. Rebuild the existing ~0.5 mile 230kV designed section of Lackawanna - Callender Gap 230kV line
- Estimated Cost: \$7.75 M

Lackawanna 230kV Substation (s3819.14)

- Replace two 230kV breakers and four MODs in Bay #3 at Lackawanna 230kV
- Estimated Cost: \$2.9 M

Upgrade Callender Gap - Paupack 230kV Line (s3819.15)

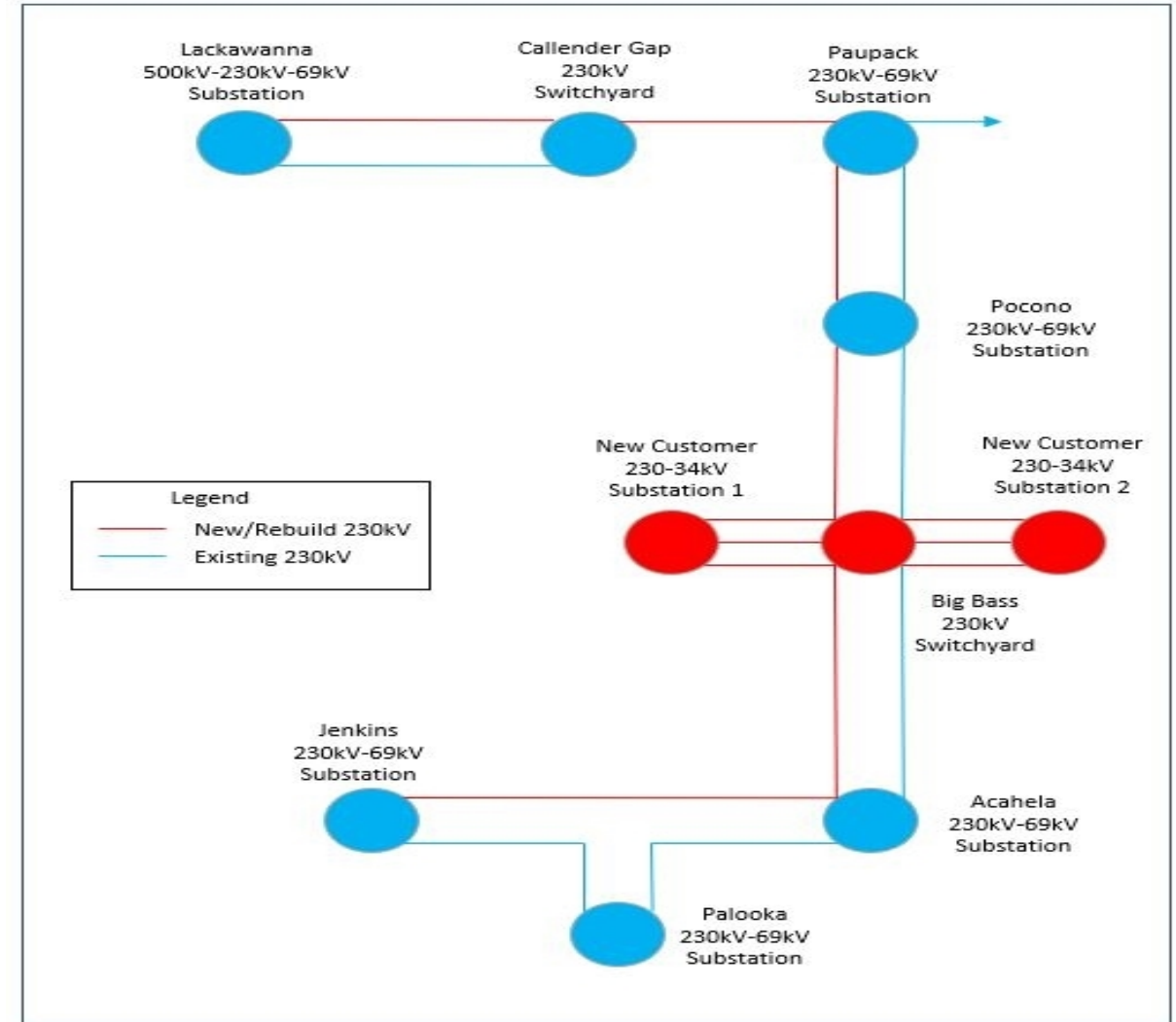
- Add two subconductors to each phase in the 500kV designed section of the Callender Gap - Paupack 230kV Line for ~ 17.1 miles. Reconductor the existing ~0.9 mile 230kV designed section of Callender Gap - Paupack 230kV line
- Estimated Cost: \$31.1 M

Ratings MVA (SN/SE/WN/WE):

Big Bass 230kV Switchyard (s3819.1)

- 230-New 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63kA kA

Big Bass 230kV Customer Lead Lines (s3819.2)



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Ratings MVA (SN/SE/WN/WE): Continued from previous slide...

- Before Proposed Solution: N/A
- After Proposed Solution: 933/1079/998/1143

Jenkins 230kV Substation (s3819.3)

- CB-2E 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63 kA

Re-terminate Jenkins - Palooka 230kV line (s3819.4)

- Before Proposed Solution: 647/801/746/903
- After Proposed Solution: 647/801/746/903

New Jenkins - Acahela 230kV Line (s3819.5)

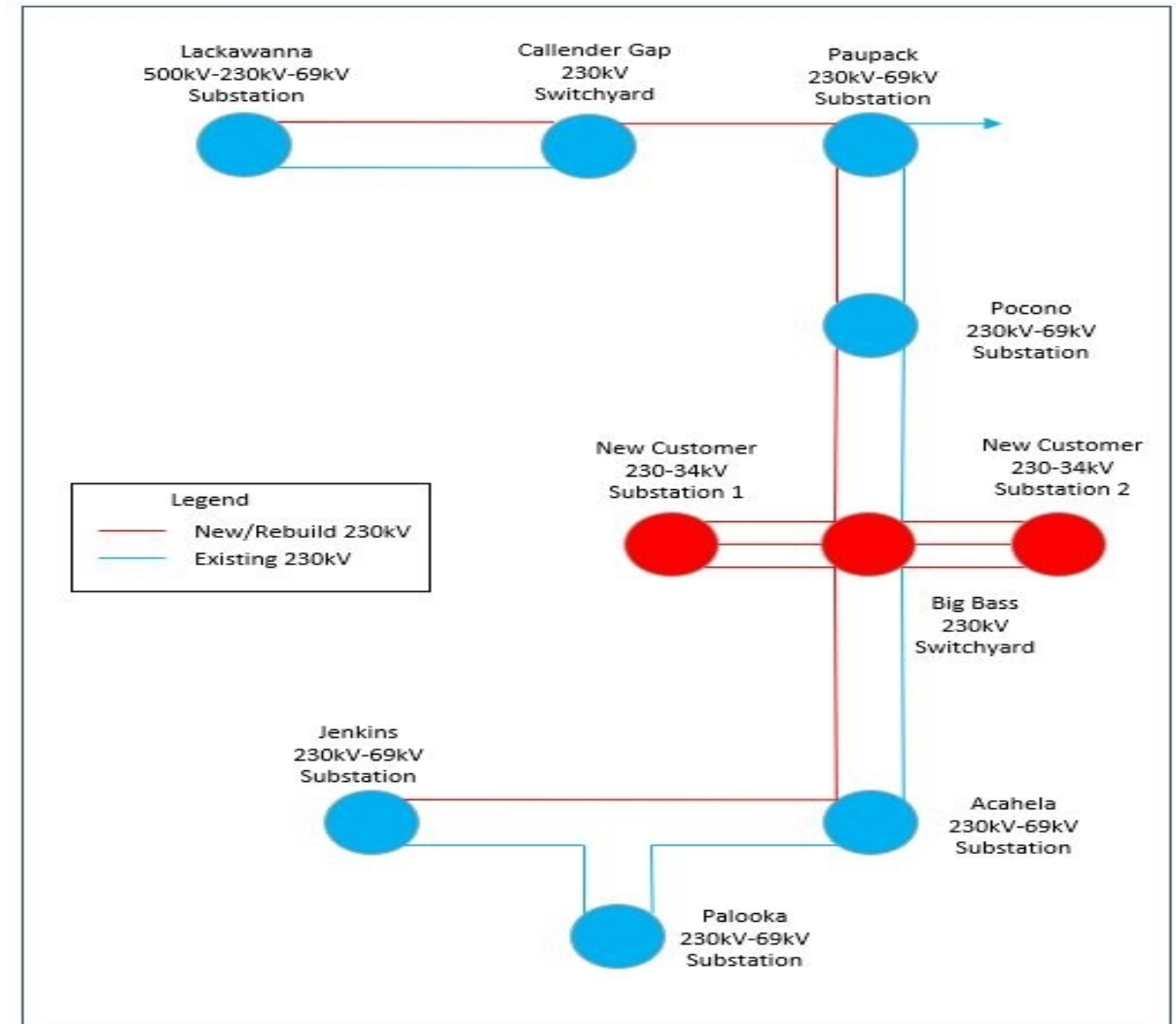
- Before Proposed Solution: N/A
- After Proposed Solution: 647/801/746/903

Acahela 230kV Substation (s3819.6)

- 230 new 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63kA kA

Bifurcate Acahela - Pocono 230kV line (s3819.7)

- Before Proposed Solution: 647/801/746/903
- After Proposed Solution: 647/801/746/903



PPL Transmission Zone M-3 Process

Big Bass 230kV Switchyard

Need number(s): PPL-2025-0012

Ratings MVA (SN/SE/WN/WE): Continued from previous slide...

New Acahela - Big Bass #2 230kV Line (s3819.8)

- Before Proposed Solution: N/A
- After Proposed Solution: 647/801/746/903

New Big Bass - Pocono #2 230kV Line (s3819.9)

- Before Proposed Solution: N/A
- After Proposed Solution: 647/801/746/903

Pocono 230kV Substation (s3819.10)

- new 230 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63kA kA

New Paupack - Pocono #2 230kV Line (s3819.11)

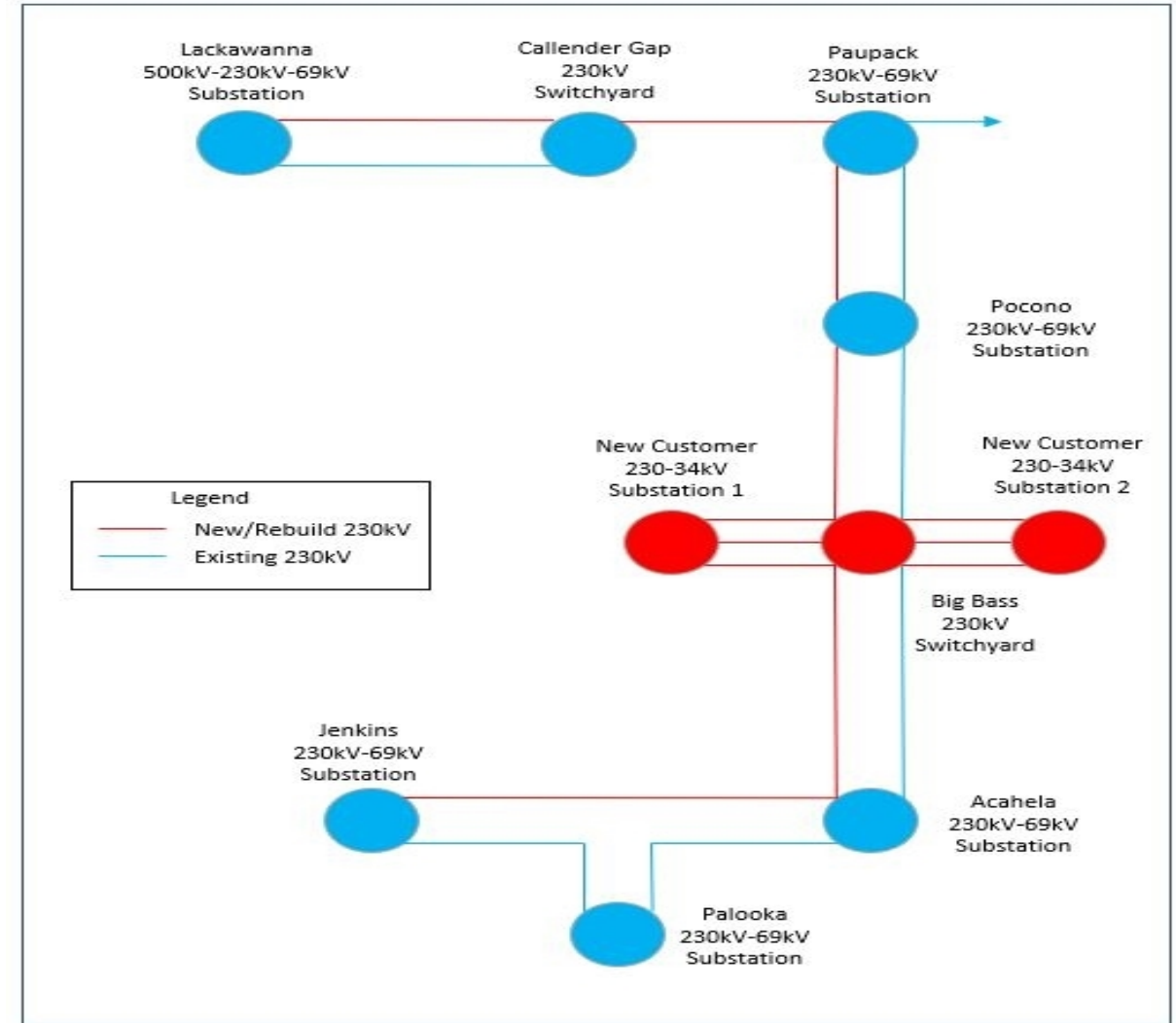
- Before Proposed Solution: N/A
- After Proposed Solution: 647/801/746/903

Paupack 230kV Substation (s3819.12)

- 230 new 230 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 63kA kA

Upgrade Lackawanna - Callender Gap 230kV Line (s3819.13)

- Before Proposed Solution: 647/801/746/903



Need number(s): PPL-2025-0012

Ratings MVA (SN/SE/WN/WE): Continued from previous slide...

- After Proposed Solution: 1442/1629/1685/1822

Lackawanna 230kV Substation (s3819.14)

- CB-3E 230 kV Breaker
 - Before Proposed Solution: 50 kA
 - After Proposed Solution: 63kA kA
- CB-3T 230 kV Breaker
 - Before Proposed Solution: 50 kA
 - After Proposed Solution: 63kA kA

Upgrade Callender Gap - Paupack 230kV Line (s3819.15)

- Before Proposed Solution: 647/801/746/903
- After Proposed Solution: 1085/1254/1160/1329

Alternatives Considered:

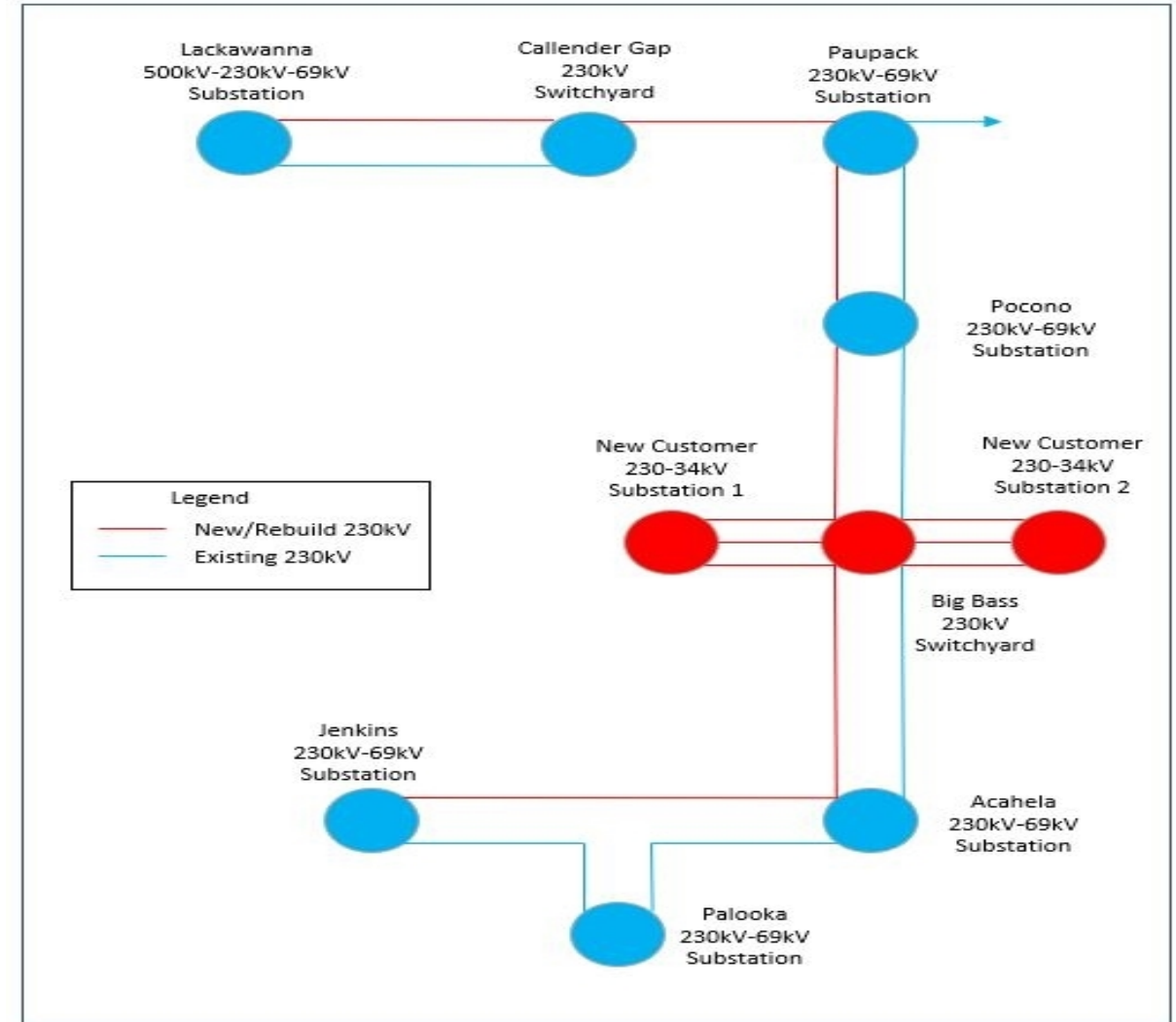
1. Bifurcate the ACAH-POCO 230kV line and install new 230kV switchyard. Rebuild Blooming Grove 230kV yard to BAAH and install new 500-230kV yard with two transformers. Extend ~21 miles of greenfield double circuit 230kV to new switchyard. Estimated cost ~\$255 Million.

Transmission Cost Estimate: \$186.875 M

Projected In-Service: 05/30/2028

Project Status: Conceptual

PPL Transmission Zone M-3 Process Big Bass 230kV Switchyard





PPL Transmission Zone M-3 Process Hummelstown 230-69kV Transformer 1 Replacement

Need Number: PPL-2026-0022

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/05/2026. Need Meeting 04/07/2026

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

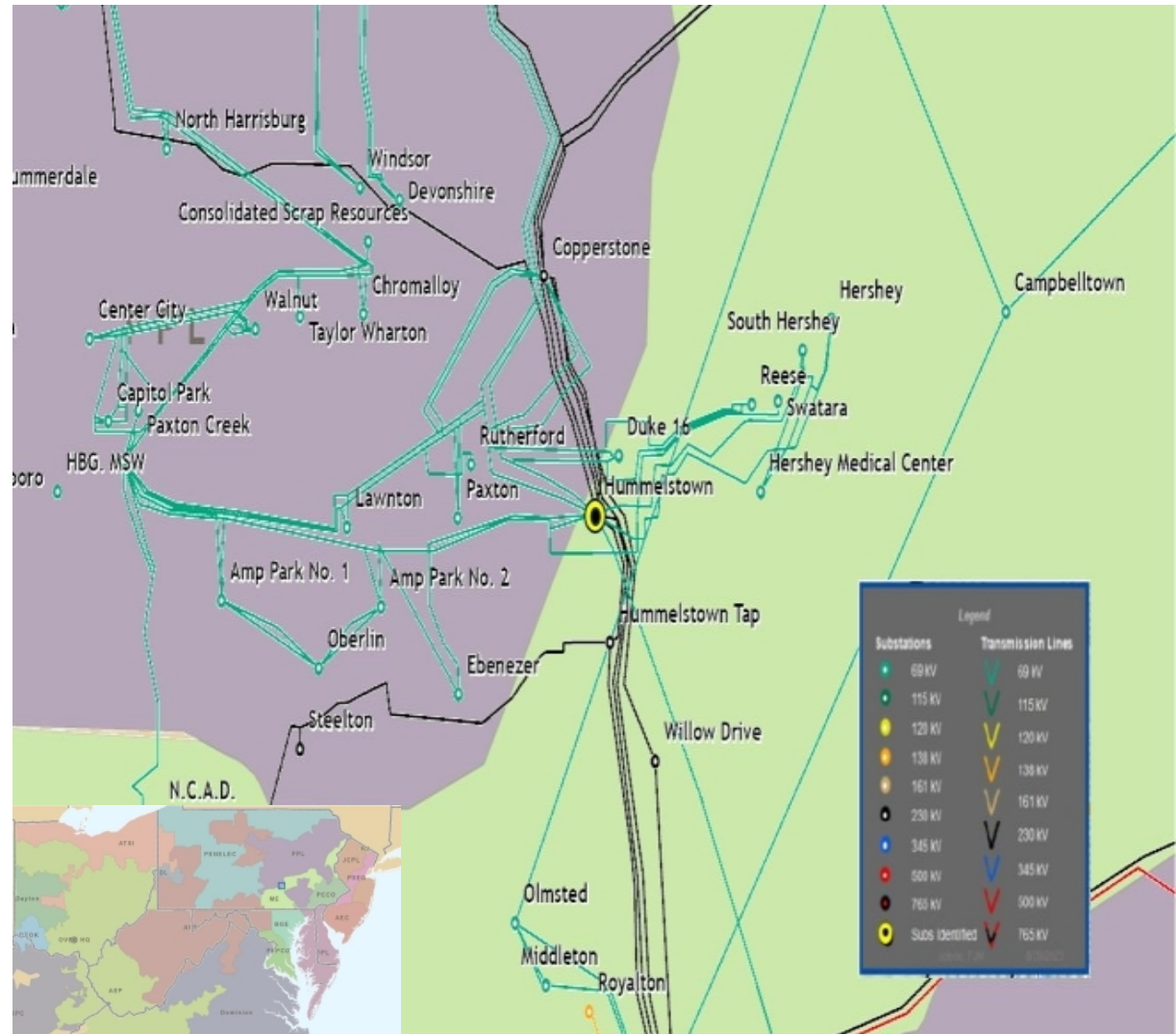
The Hummelstown substation 230-69kV Transformer 1 is approximately 34 years old and has experienced 28 unplanned maintenance events. 12 of the 28 have occurred since 2023, indicating an increasing rate of failure. These maintenance events include:

Replacing melted CT terminal blocks in the cabinet

Replacing a failed AC unit

Repairing a leak near the pressure relief device

Replacing a failed lockout relay





Need number(s): PPL-2026-0022

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Hummelstown 230-69kV Transformer 1 Replacement (\$3920.1)

- Install a new 170MVA, 230-69kV transformer as an in-kind replacement of the existing 230-69kV Hummelstown Transformer 1
- Estimated Cost: \$7.1 M

Ratings MVA (SN/SE/WN/WE):

Hummelstown 230-69kV Transformer 1 Replacement (\$3920.1)

- HUMM T1 230-69 230-69-12.5kV Transformer
 - Before Proposed Solution: 162/203/202/259
 - After Proposed Solution: 214/265/265/272

Alternatives Considered:

No Feasible Alternative

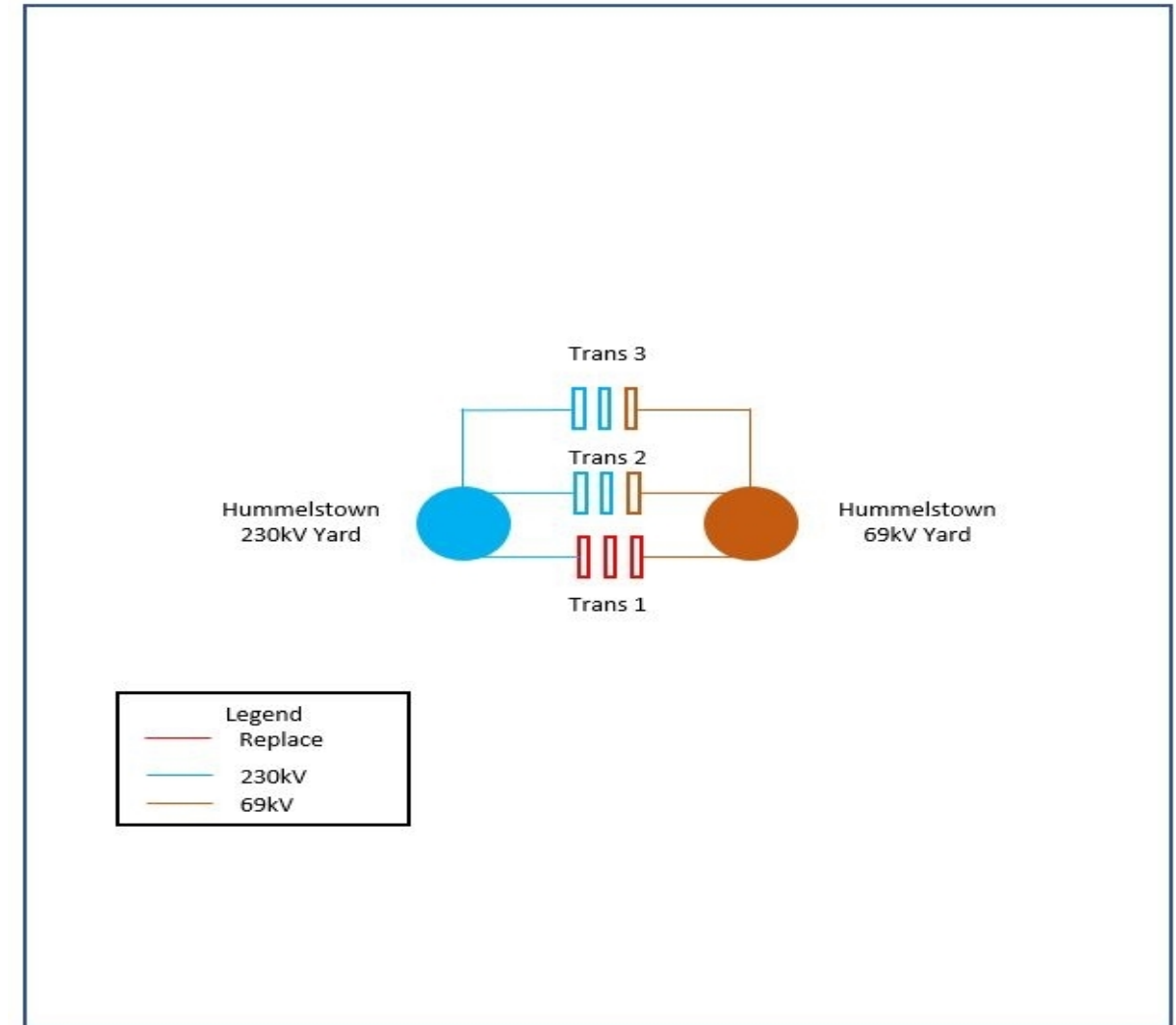
Transmission Cost Estimate: \$7.1 M

Projected In-Service: 12/31/2029

Project Status: Conceptual

Model: Not Available

PPL Transmission Zone M-3 Process Hummelstown 230-69kV Transformer 1 Replacement





Need Number: PPL-2026-0023

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/05/2026. Need Meeting 04/07/2026

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Jenkins substation 230-69kV Transformer 4 is approximately 44 years old and has experienced 8 different maintenance events. Some of these events include remediation for multiple individual failures, including:

Replacing K5 timing relay

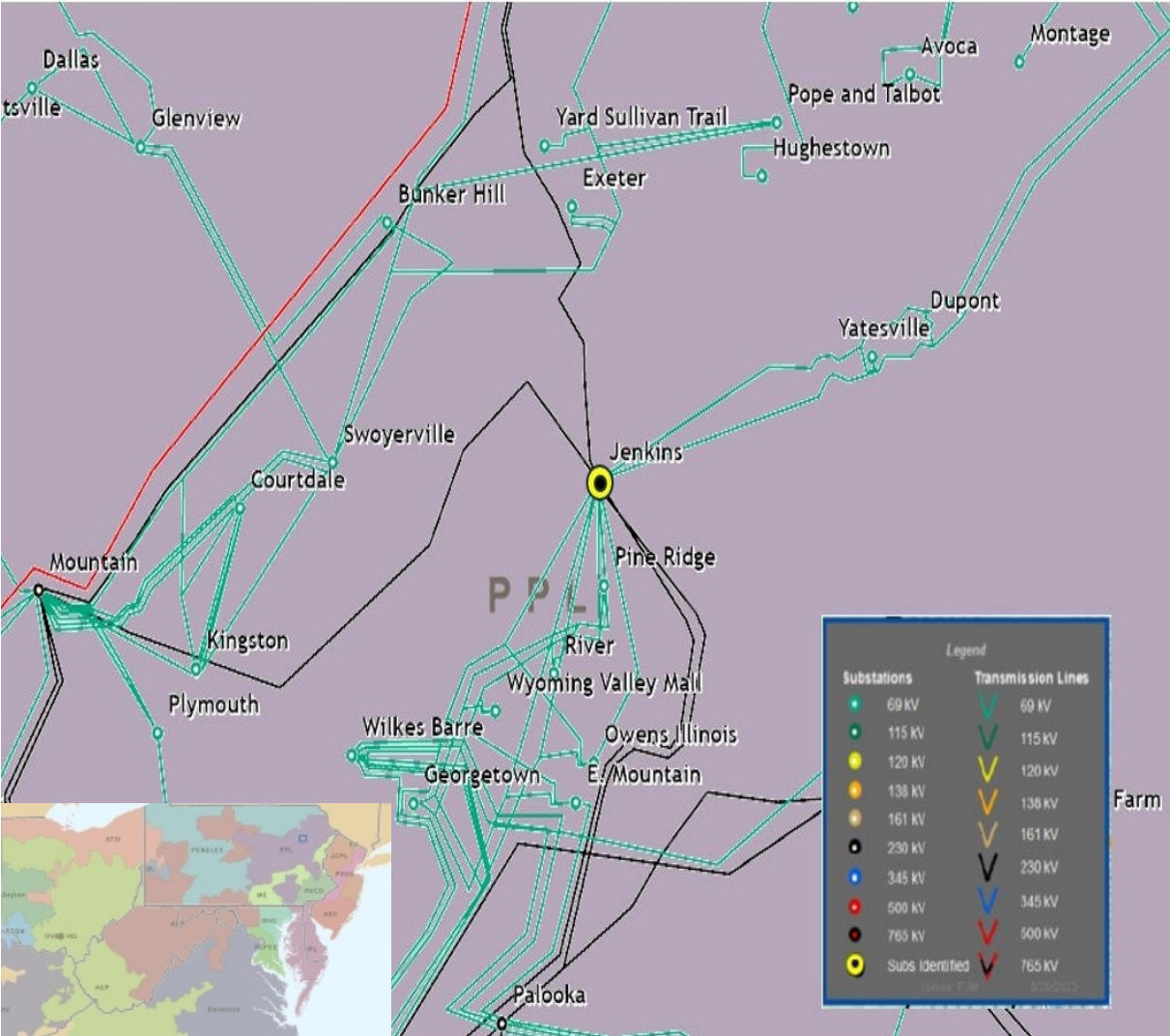
Replacing failed cooling fans

Replacing a failed Buchholz pressure relay

Replacing diverter switches

PPL Transmission Zone M-3 Process

Jenkins 230-69kV Transformer 4 Replacement





PPL Transmission Zone M-3 Process Jenkins 230-69kV Transformer 4 Replacement

Need number(s): PPL-2026-0023

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Jenkins 230-69kV Transformer 4 Replacement (s3921.1)

- Install a new 170MVA, 230-69kV transformer as an in-kind replacement of the existing 230-69kV Jenkins Transformer 4
- Estimated Cost: \$7.1 M

Ratings MVA (SN/SE/WN/WE):

Jenkins 230-69kV Transformer 4 Replacement (s3921.1)

- JENK T4 230-69kV 230-69-12.5kV Transformer
 - Before Proposed Solution: 217/268/268/268
 - After Proposed Solution: 214/265/265/272

Alternatives Considered:

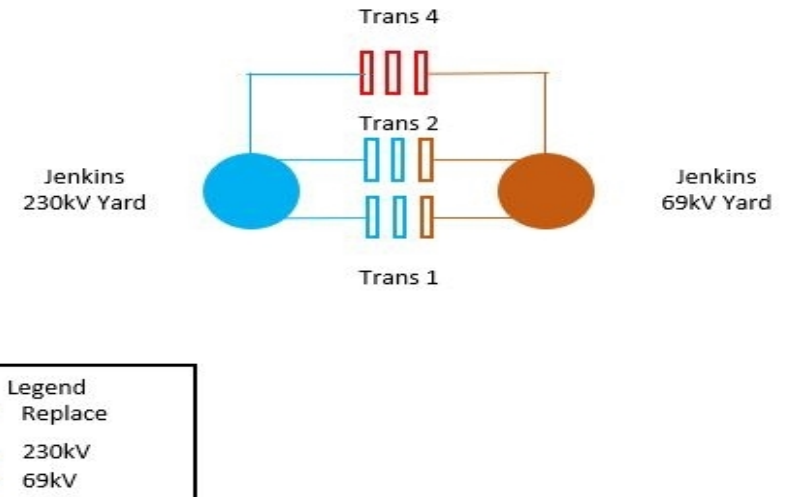
No Feasible Alternative

Transmission Cost Estimate: \$7.1 M

Projected In-Service: 05/31/2029

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Dupont Substation Tap

Need Number: PPL-2026-0019

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 03/18/2026

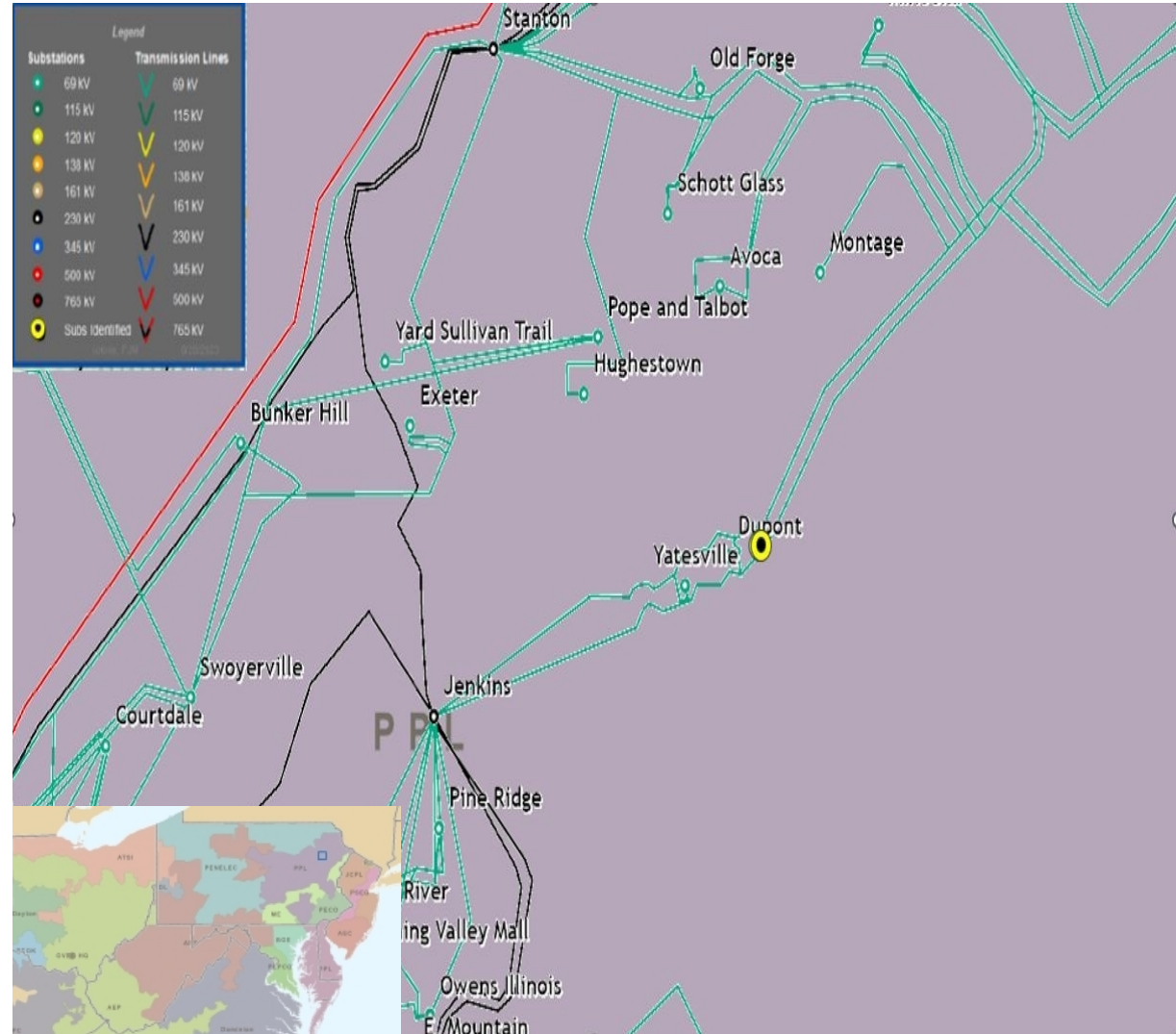
Project Driver: Customer Service, Operational Flexibility and Efficiency

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the Dupont 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 11/30/2028.





PPL Transmission Zone M-3 Process Dupont Substation Tap

Need number(s): PPL-2026-0019

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Dupont Substation Tap (s3917.1)

- Tap the existing Jenkins - Scranton #2 69kV line and extend ~0.1 miles to Dupont Substation transformer bay 2 position.
- Utilize 556 ACSR.

- Estimated Cost: \$0.9 M

Ratings MVA (SN/SE/WN/WE):

Dupont Substation Tap (s3917.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

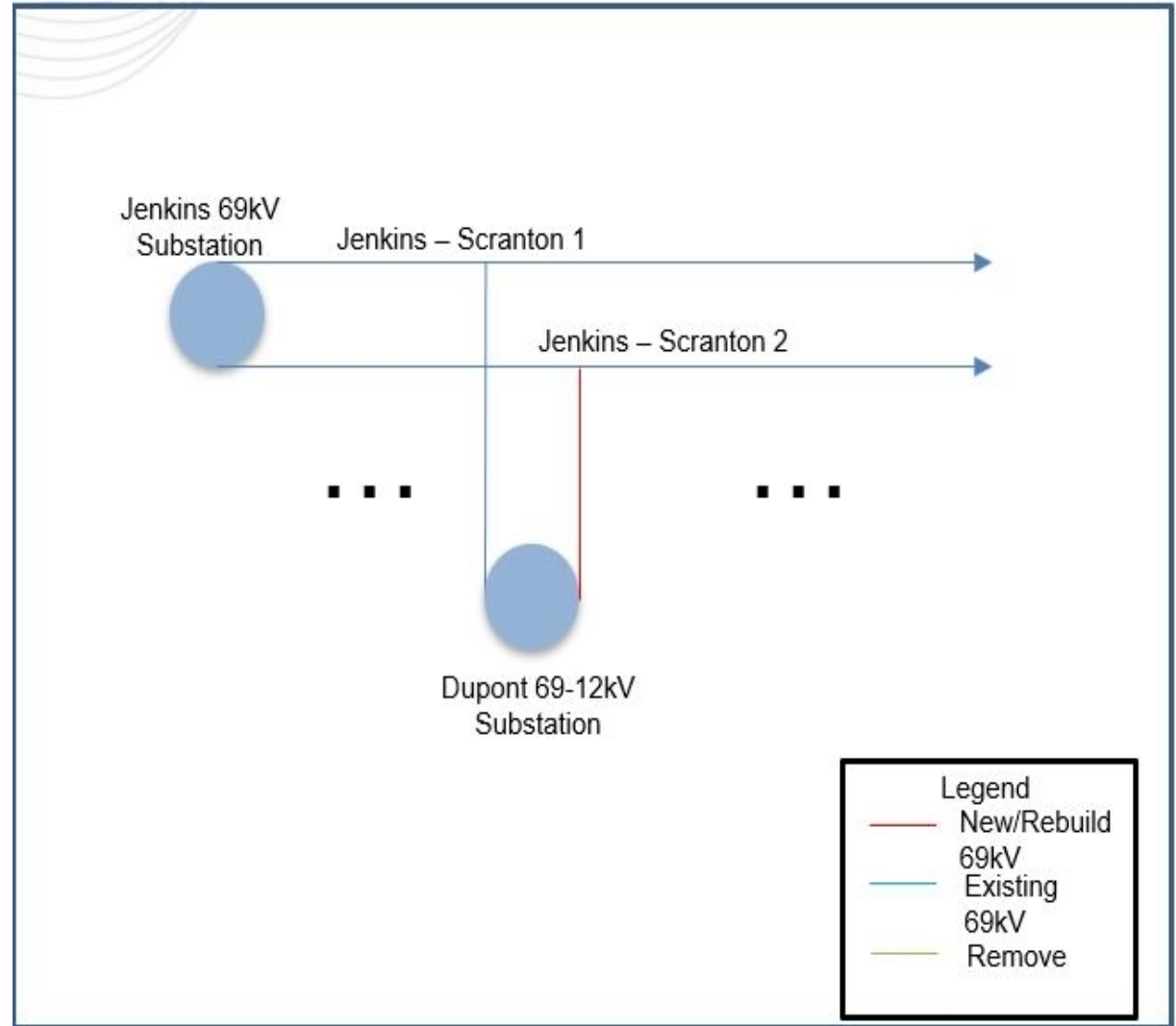
N/A

Transmission Cost Estimate: \$0.9 M

Projected In-Service: 11/30/2028

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Steel City 500kV Switchyard

Need Number: PPL-2026-0028

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/05/2026. Need Meeting 04/07/2026

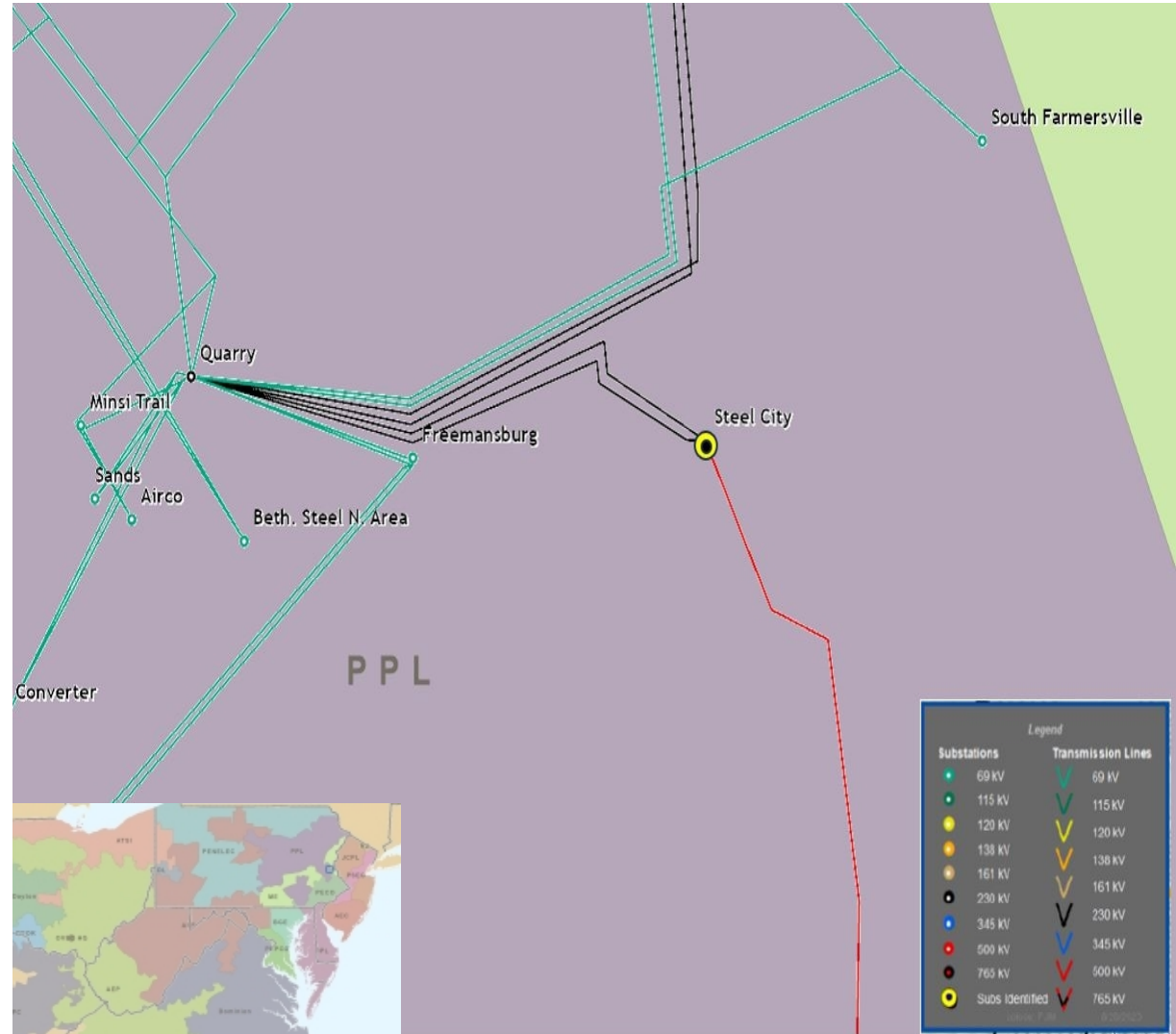
Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The current arrangement at Steel City 500kV is built for BAAH but operated as a ring bus. Multiple elements terminating in the Steel City 500kV Switchyard are susceptible to outages due to P4 Stuck Breaker contingency events.





PPL Transmission Zone M-3 Process Steel City 500kV Switchyard

Need number(s): PPL-2026-0028

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Steel City 500kV Switchyard (s3923.1)

- Upgrade the Steel City 500kV Switchyard to a BAAH configuration. Install two 3000A circuit breakers
- Estimated Cost: \$3 M

Ratings MVA (SN/SE/WN/WE):

Steel City 500kV Switchyard (s3923.1)

- STCI new 500kV breakers 500 kV Breaker
 - Before Proposed Solution: N/A kA
 - After Proposed Solution: 50 kA

Alternatives Considered:

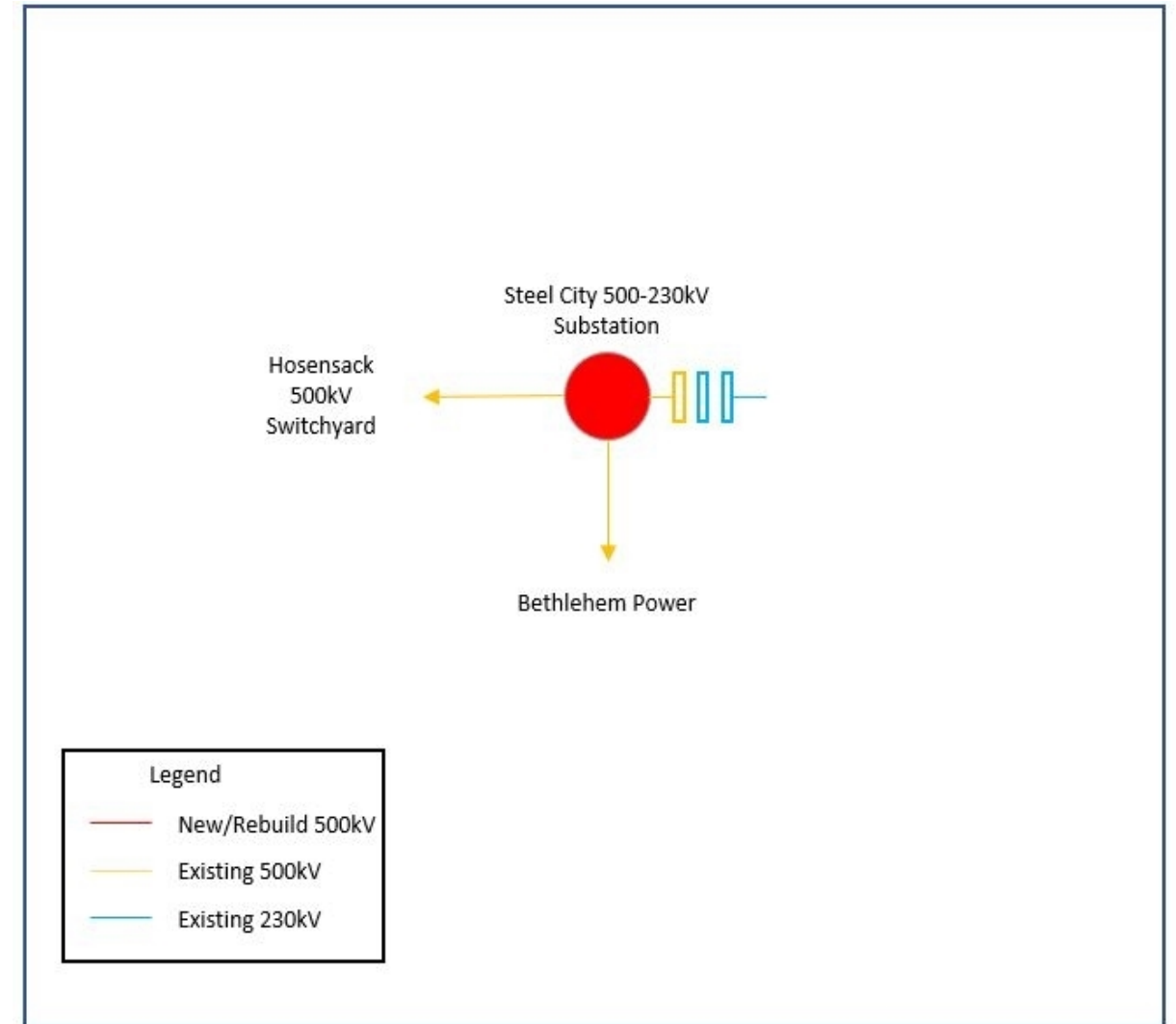
No functional alternatives

Transmission Cost Estimate: \$3 M

Projected In-Service: 11/30/2029

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Dupont Substation Tap

Need Number: PPL-2026-0019

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 03/18/2026

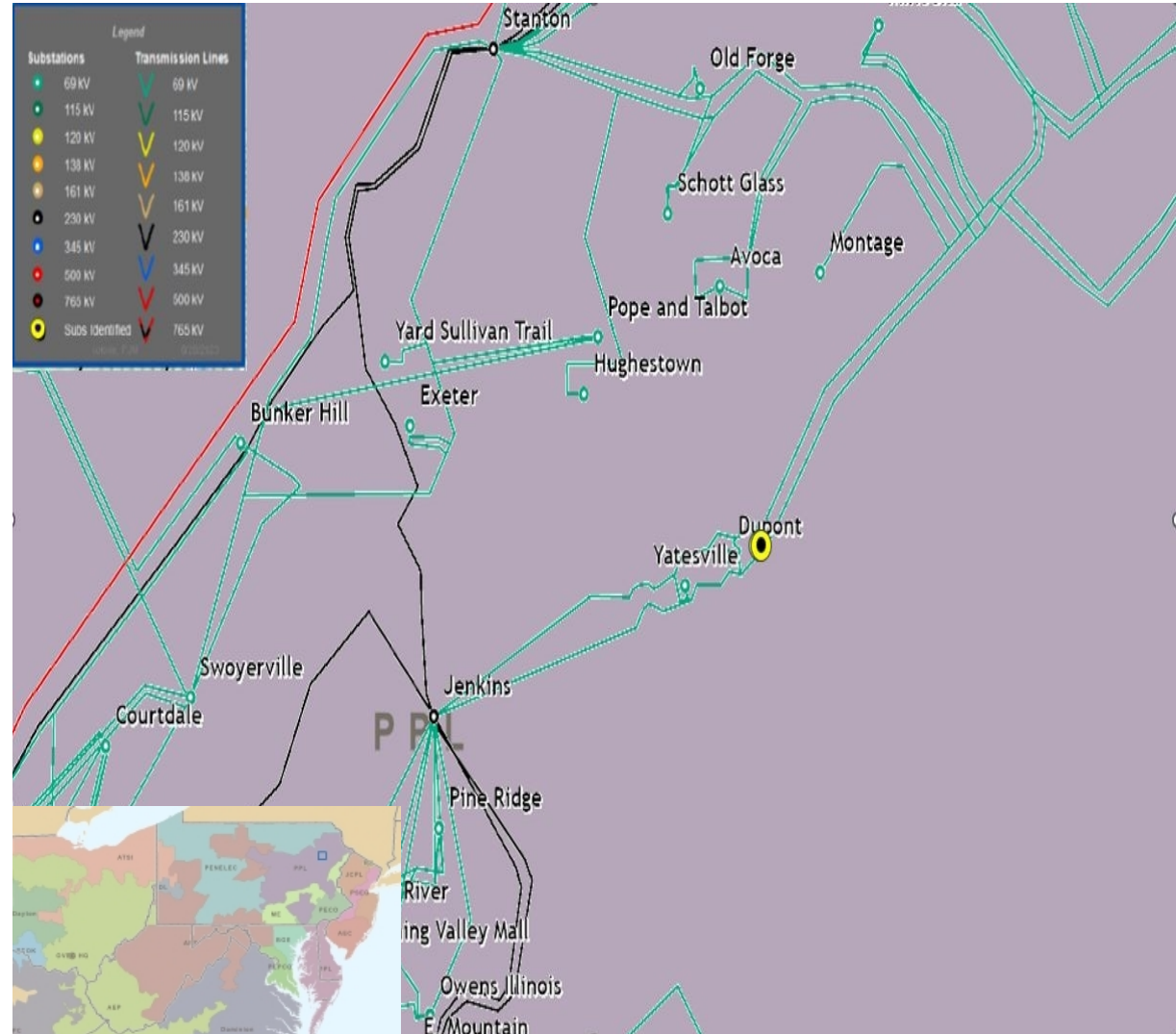
Project Driver: Customer Service, Operational Flexibility and Efficiency

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the Dupont 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 11/30/2028.





PPL Transmission Zone M-3 Process Dupont Substation Tap

Need number(s): PPL-2026-0019

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Dupont Substation Tap (s3917.1)

- Tap the existing Jenkins - Scranton #2 69kV line and extend ~0.1 miles to Dupont Substation transformer bay 2 position.
- Utilize 556 ACSR.

- Estimated Cost: \$0.9 M

Ratings MVA (SN/SE/WN/WE):

Dupont Substation Tap (s3917.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

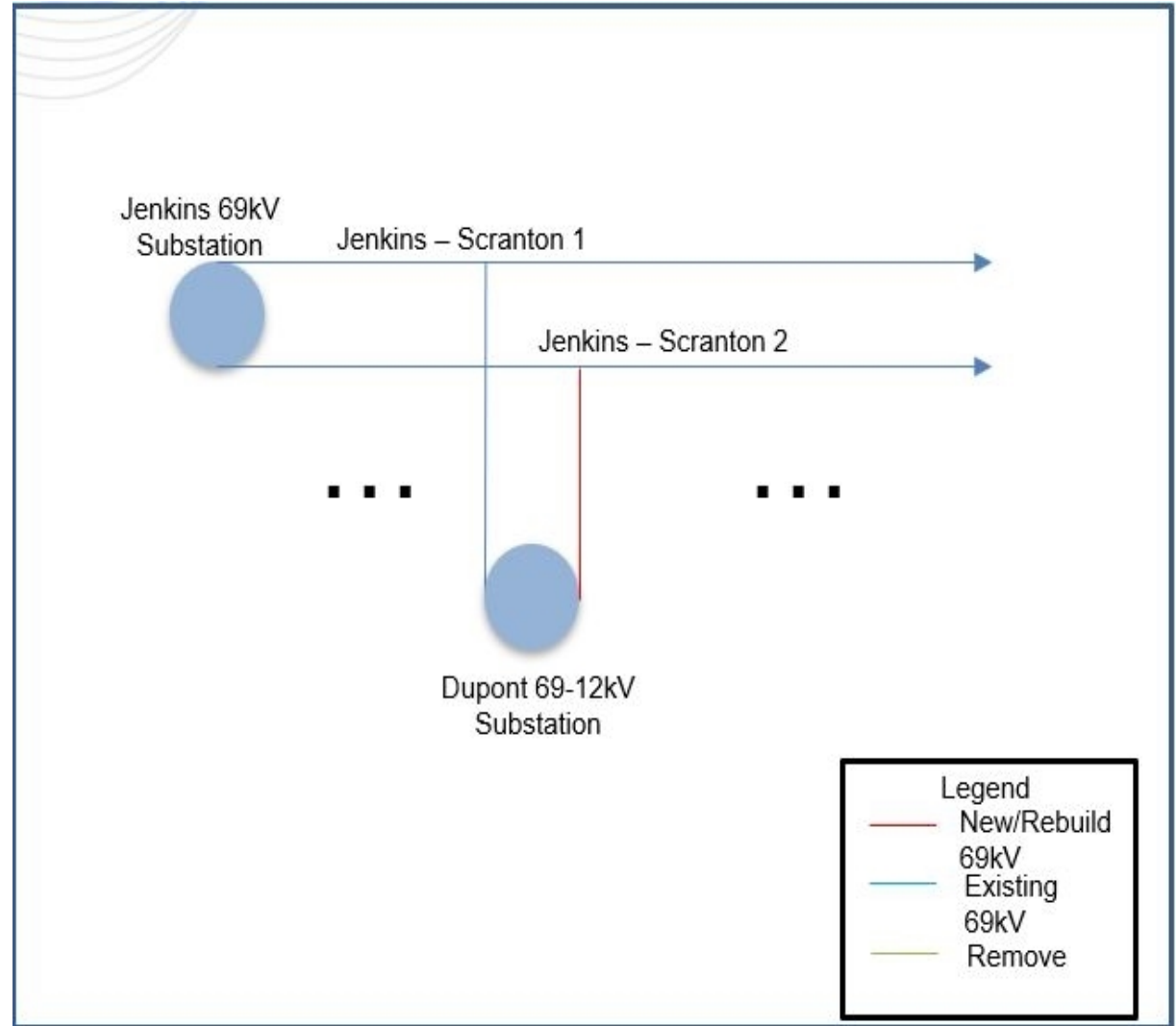
N/A

Transmission Cost Estimate: \$0.9 M

Projected In-Service: 11/30/2028

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Hosensack 69kV Upgrade

Need Number: PPL-2026-0025

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 03/18/2026

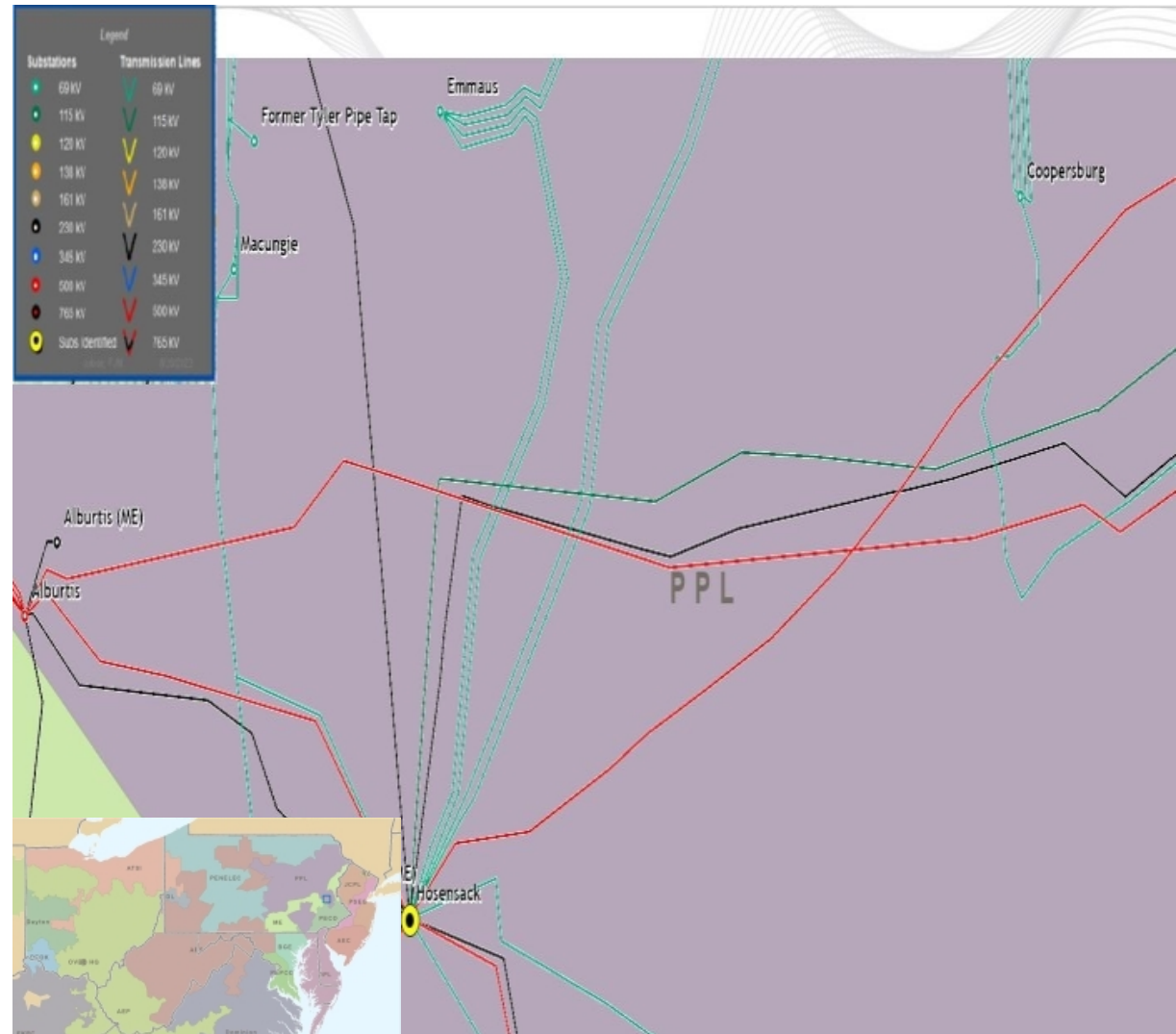
Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Hosensack 69 kV Yard is designed for a Double Bus-Double Breaker configuration, but several bays remain single-bus-fed, creating unnecessary customer outage exposure during P4 multiple-contingency events. Requested in-service 5/1/2028.





PPL Transmission Zone M-3 Process Hosensack 69kV Upgrade

Need number(s): PPL-2026-0025

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Hosensack 69kV circuit breaker upgrade (s3918.1)

- Upgrade the Hosensack 69kV yard to complete Double breaker-double bus design. Install 5 new 2000A breakers.
- Estimated Cost: \$3.4 M

Ratings MVA (SN/SE/WN/WE):

Hosensack 69kV circuit breaker upgrade (s3918.1)

- HOSE 69 kV Breaker
 - Before Proposed Solution: NA kA
 - After Proposed Solution: 40 kA

Alternatives Considered:

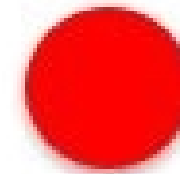
N/A

Transmission Cost Estimate: \$3.4 M

Projected In-Service: 11/30/2028

Project Status: Conceptual

Model: Not Available



Hosensack 69kV
Substation





PPL Transmission Zone M-3 Process Port Carbon Tap

Need Number: PPL-2026-0026

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 03/18/2026

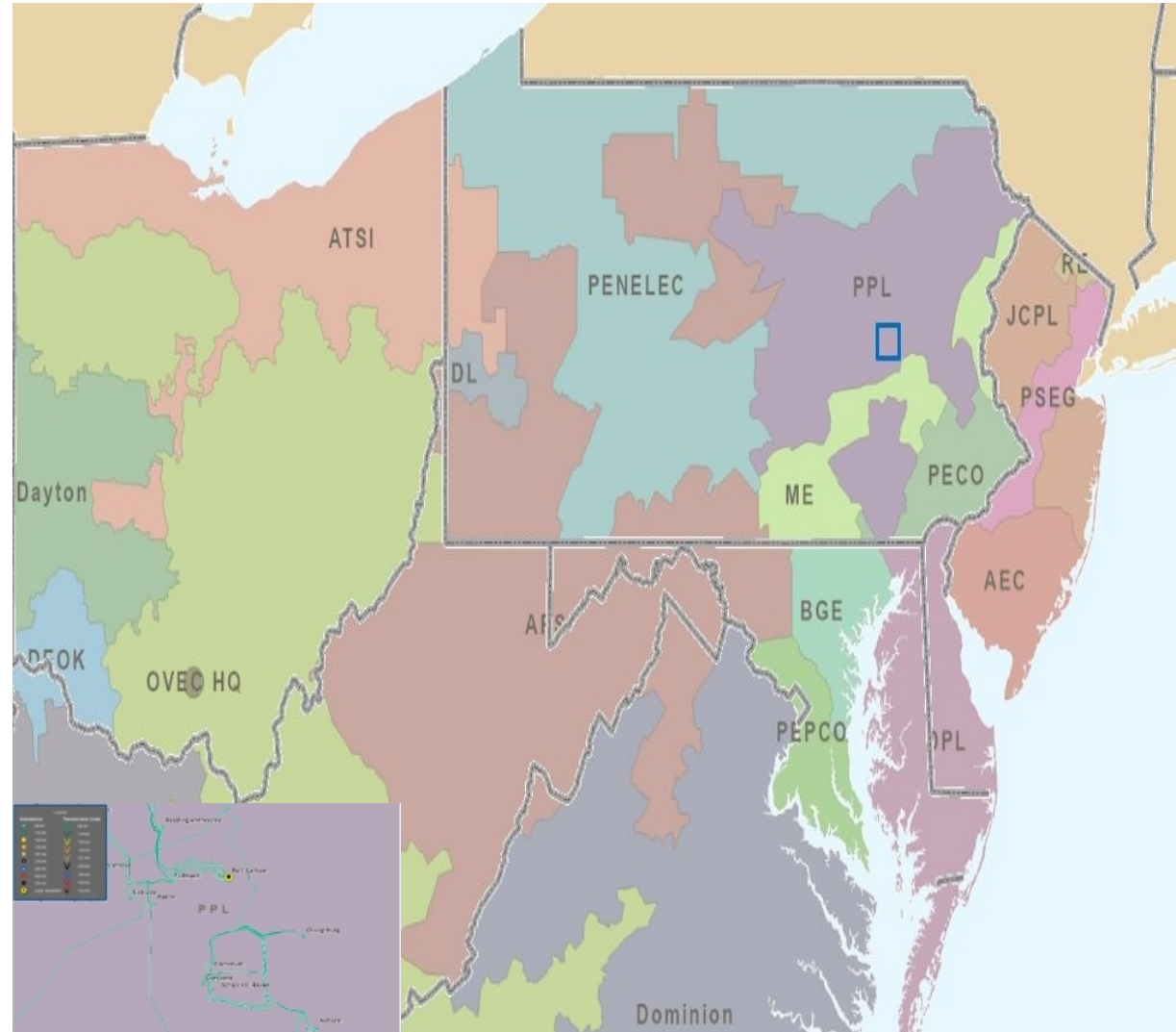
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to connect an existing on-site spare transformer at the Port Carbon 69-12kV to improve operational flexibility and reliability. Requested in-service 11/30/2028.





PPL Transmission Zone M-3 Process

Port Carbon Tap

Need number(s): PPL-2026-0026

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Port Carbon Tap (s3919.1)

- Extend the existing Port Carbon Tap 2 ~2.5 miles from Frackville - Orwigsburg 2 69kV line to Port Carbon Substation transformer bay 2 position.
- Utilize 556 ACSR.

- Estimated Cost: \$7.2 M

Ratings MVA (SN/SE/WN/WE):

Port Carbon Tap (s3919.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

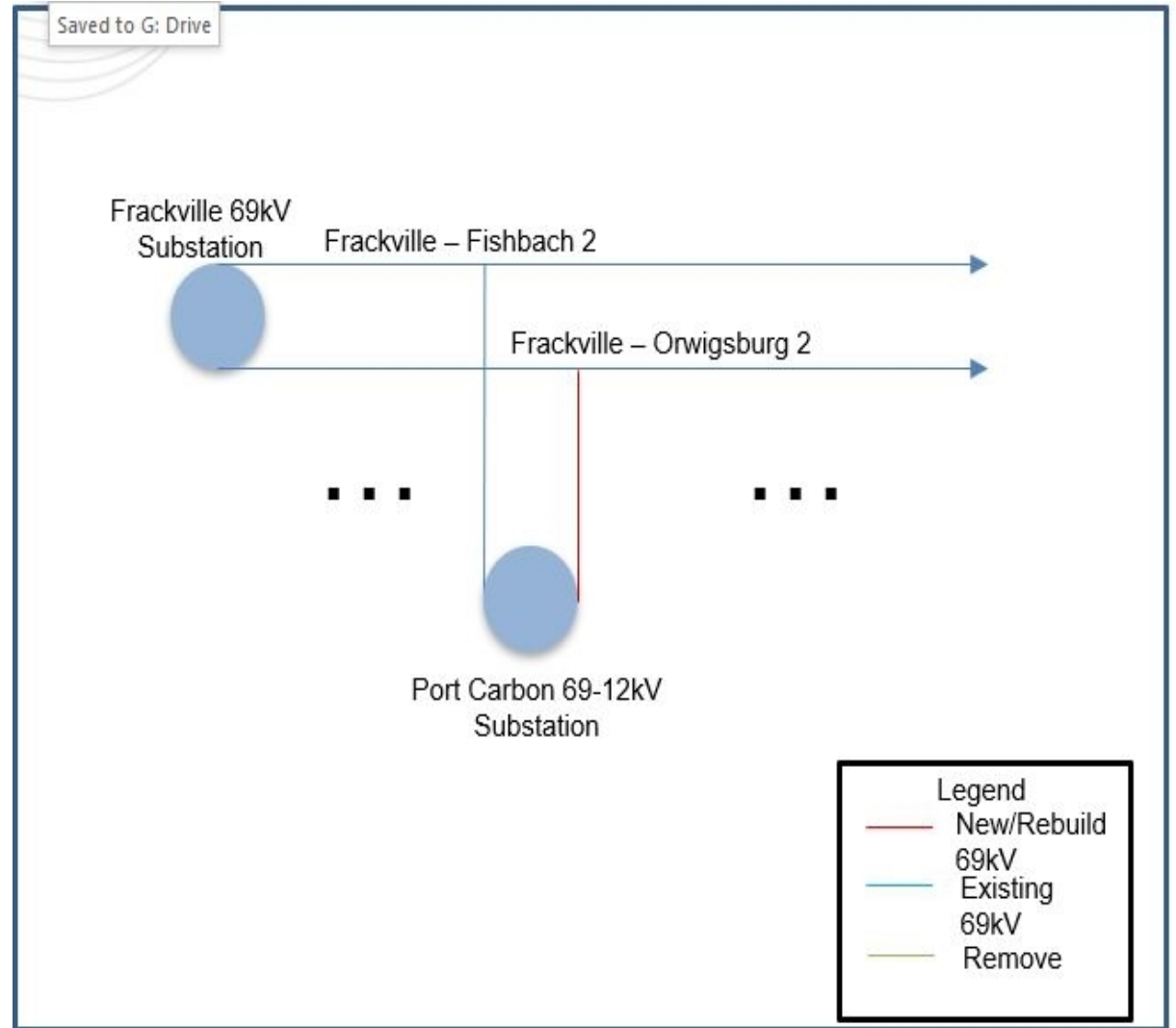
N/A

Transmission Cost Estimate: \$7.2 M

Projected In-Service: 11/30/2028

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Hosensack-Quarry 2 upgrade

Need Number: PPL-2026-0033

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 04/14/2026

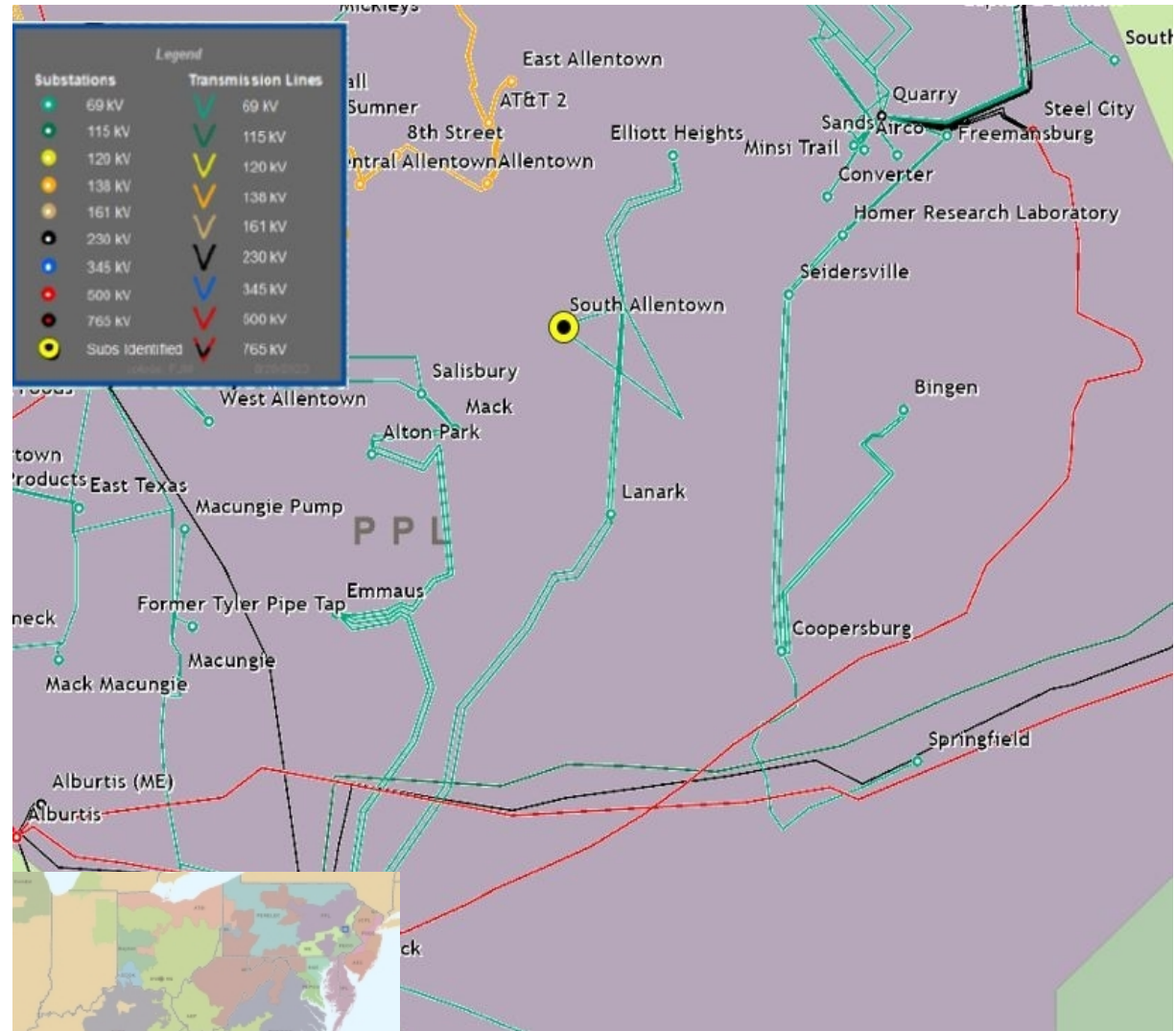
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 ANNUAL ASSUMPTIONS

Problem Statement:

PPL Distribution is requesting to feed the South Allentown 69-12kV Substation from an additional source to improve operational flexibility and reliability. Requested in-service 11/30/2026.





PPL Transmission Zone M-3 Process Hosensack-Quarry 2 upgrade

Need number(s): PPL-2026-0033

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

South Allentown Tap (s3924.1)

- Tap the existing Hosensack-Quarry #2 line and extend 0.5 miles to the Hosensack 2 South Allentown Tap. Utilize 556 ACSR.
- Estimated Cost: \$3.6 M

Ratings MVA (SN/SE/WN/WE):

South Allentown Tap (s3924.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

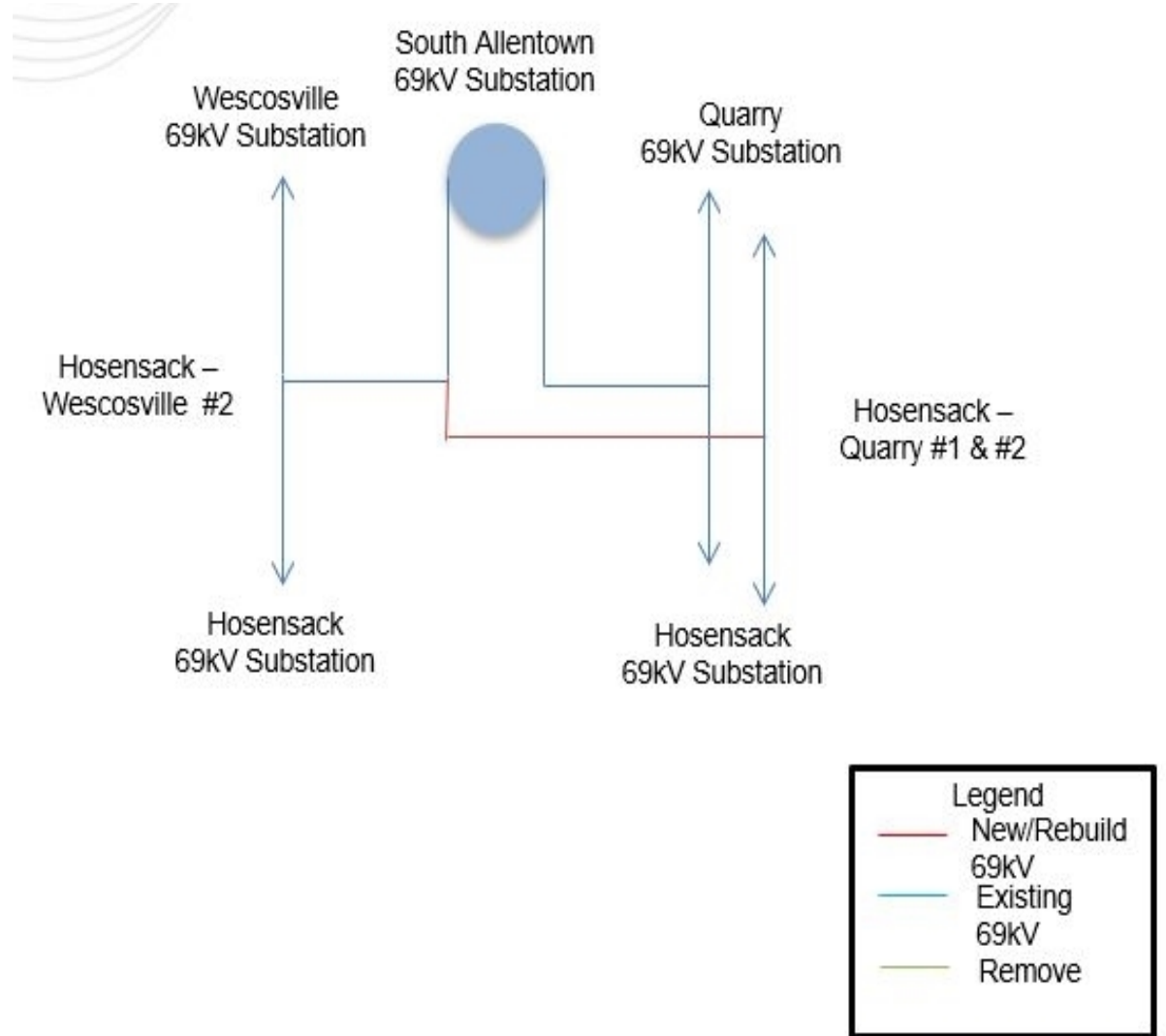
Install a normally open switch between South Allentown T1 and T2. This solution was deemed less reliable and limit operational flexibility.

Transmission Cost Estimate: \$3.6 M

Projected In-Service: 01/30/2028

Project Status: Conceptual

Model: Not Available





Need Number: PPL-2026-0034

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 04/14/2026

Project Driver: Equipment Condition/Performance/Risk

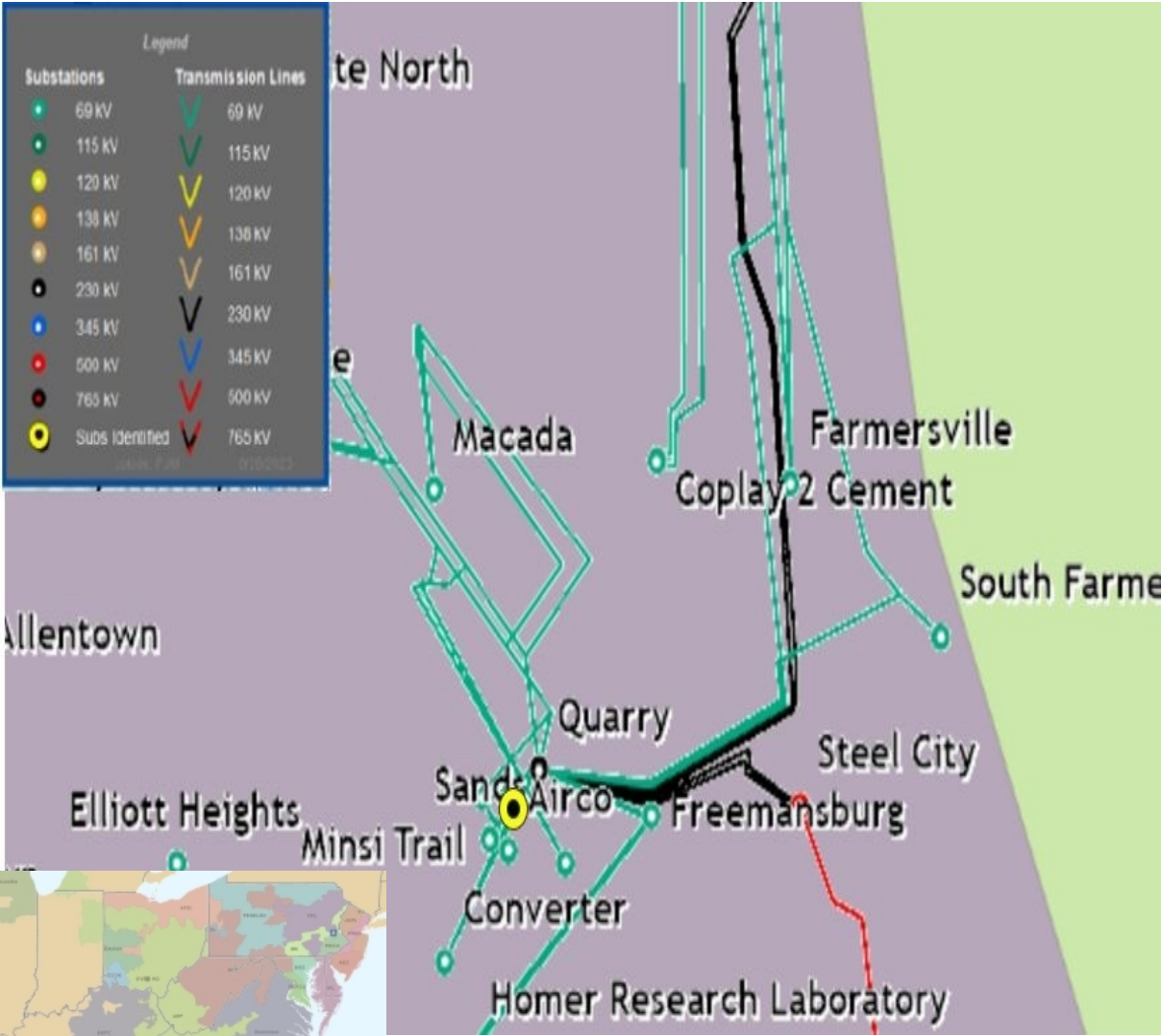
Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Quarry-Sands #1 & #2 69kV line currently uses Copperweld conductor. Copperweld conductor historically has shown to fail elongation tests due to galvanic corrosion and has shown risks of strands breaking. Additionally, an overwhelming majority of the aging lattice structures on the line are rated to be in poor or severe condition.

PPL Transmission Zone M-3 Process Quarry-Sands 1&2 69kV upgrade





PPL Transmission Zone M-3 Process Quarry-Sands 1&2 69kV upgrade

Need number(s): PPL-2026-0034

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Quarry-Sands 1 & 2 Copperweld replacement (s3925.1)

- Rebuild 0.5 miles of the Quarry-Sands 1 & 2 lines.
- Utilize 556 ACSR.

- Estimated Cost: \$1.3 M

Ratings MVA (SN/SE/WN/WE):

Quarry-Sands 1 & 2 Copperweld replacement (s3925.1)

- Before Proposed Solution: 60/84/70/95
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

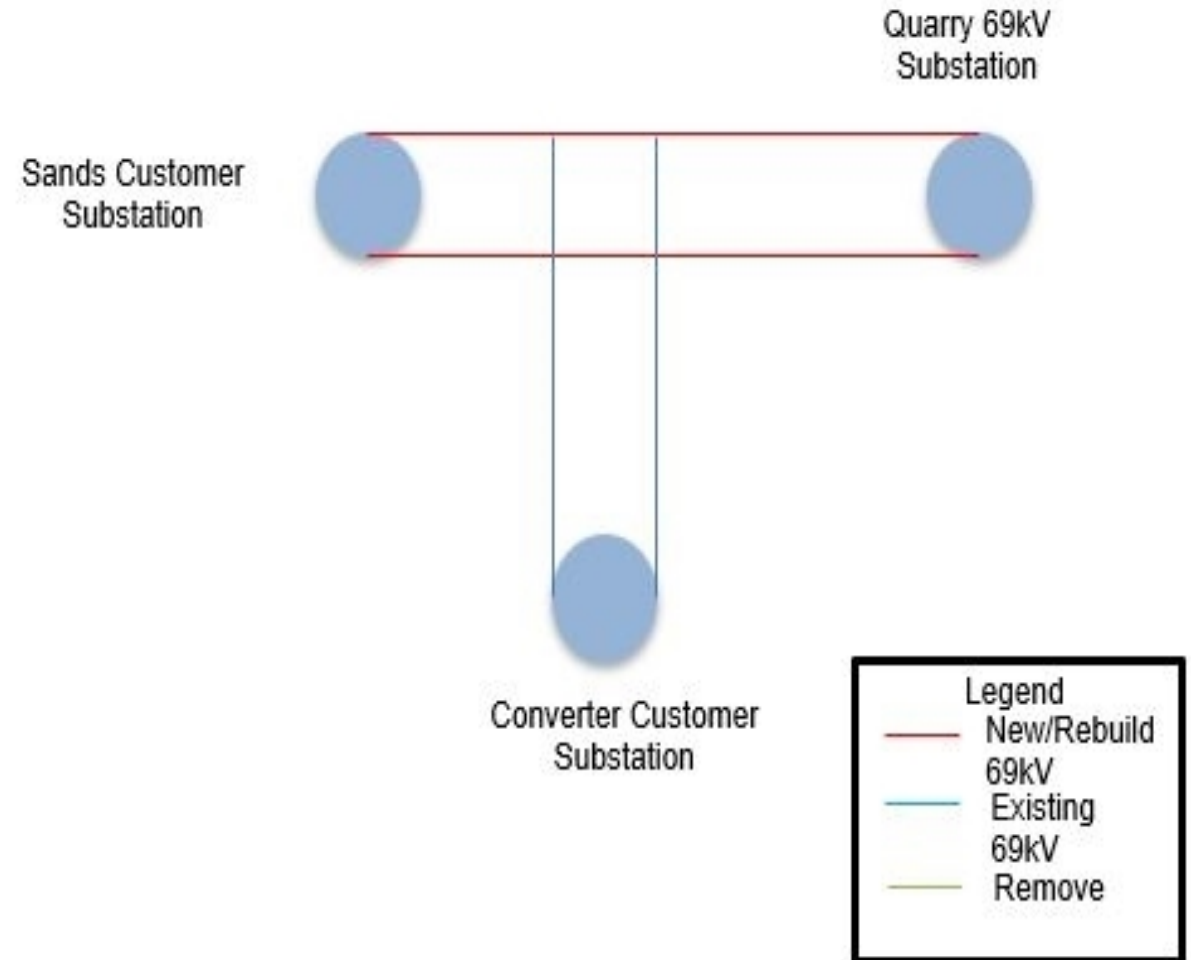
N/A

Transmission Cost Estimate: \$1.3 M

Projected In-Service: 11/30/2029

Project Status: Conceptual

Model: Not Available





Need Number: PPL-2026-0034

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 04/14/2026

Project Driver: Equipment Condition/Performance/Risk

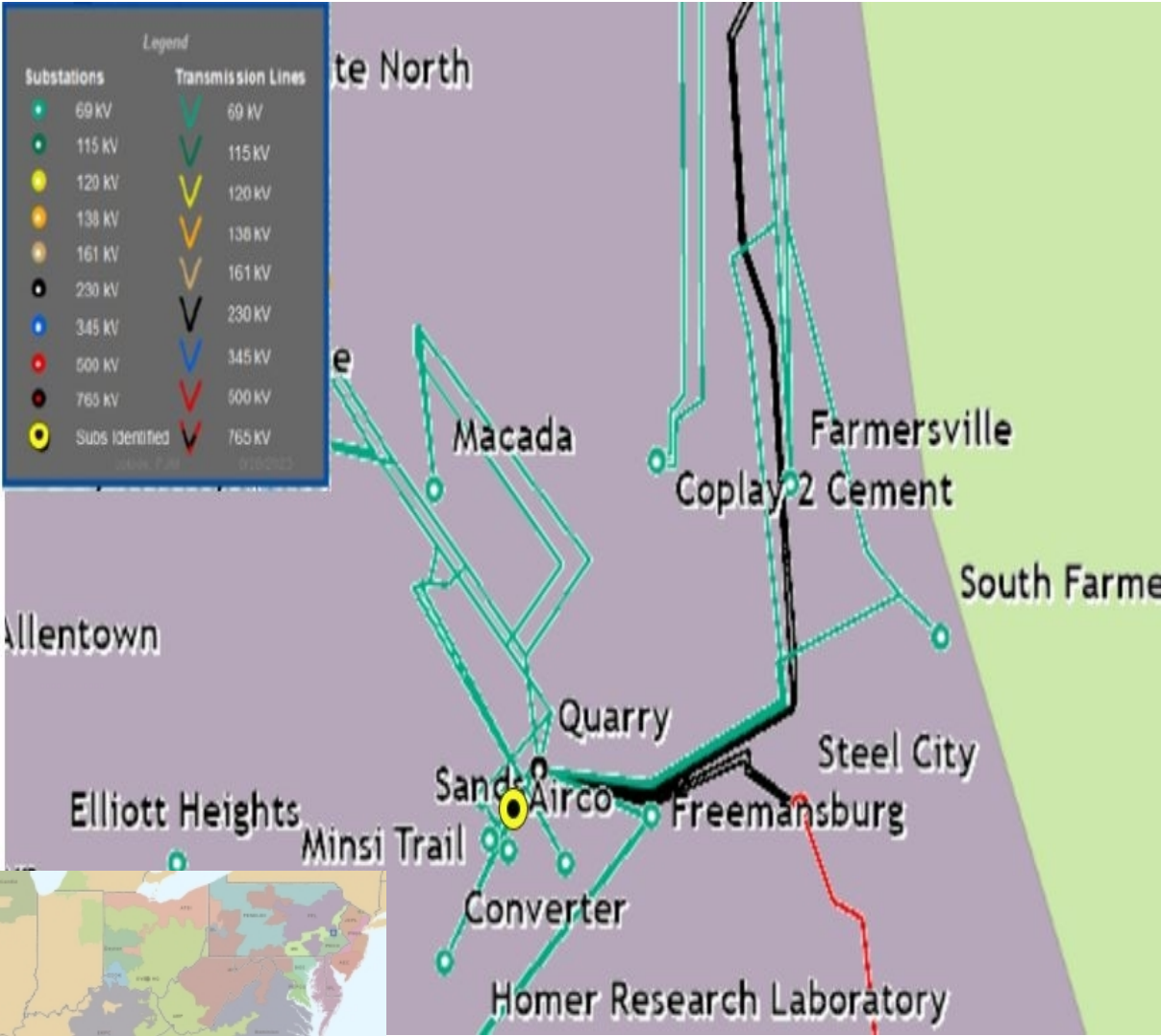
Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Quarry-Sands #1 & #2 69kV line currently uses Copperweld conductor. Copperweld conductor historically has shown to fail elongation tests due to galvanic corrosion and has shown risks of strands breaking. Additionally, an overwhelming majority of the aging lattice structures on the line are rated to be in poor or severe condition.

PPL Transmission Zone M-3 Process Quarry-Sands 1&2 69kV upgrade





PPL Transmission Zone M-3 Process Quarry-Sands 1&2 69kV upgrade

Need number(s): PPL-2026-0034

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Quarry-Sands 1 & 2 Copperweld replacement (s3925.1)

- Rebuild 0.5 miles of the Quarry-Sands 1 & 2 lines.
- Utilize 556 ACSR.

- Estimated Cost: \$1.3 M

Ratings MVA (SN/SE/WN/WE):

Quarry-Sands 1 & 2 Copperweld replacement (s3925.1)

- Before Proposed Solution: 60/84/70/95
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

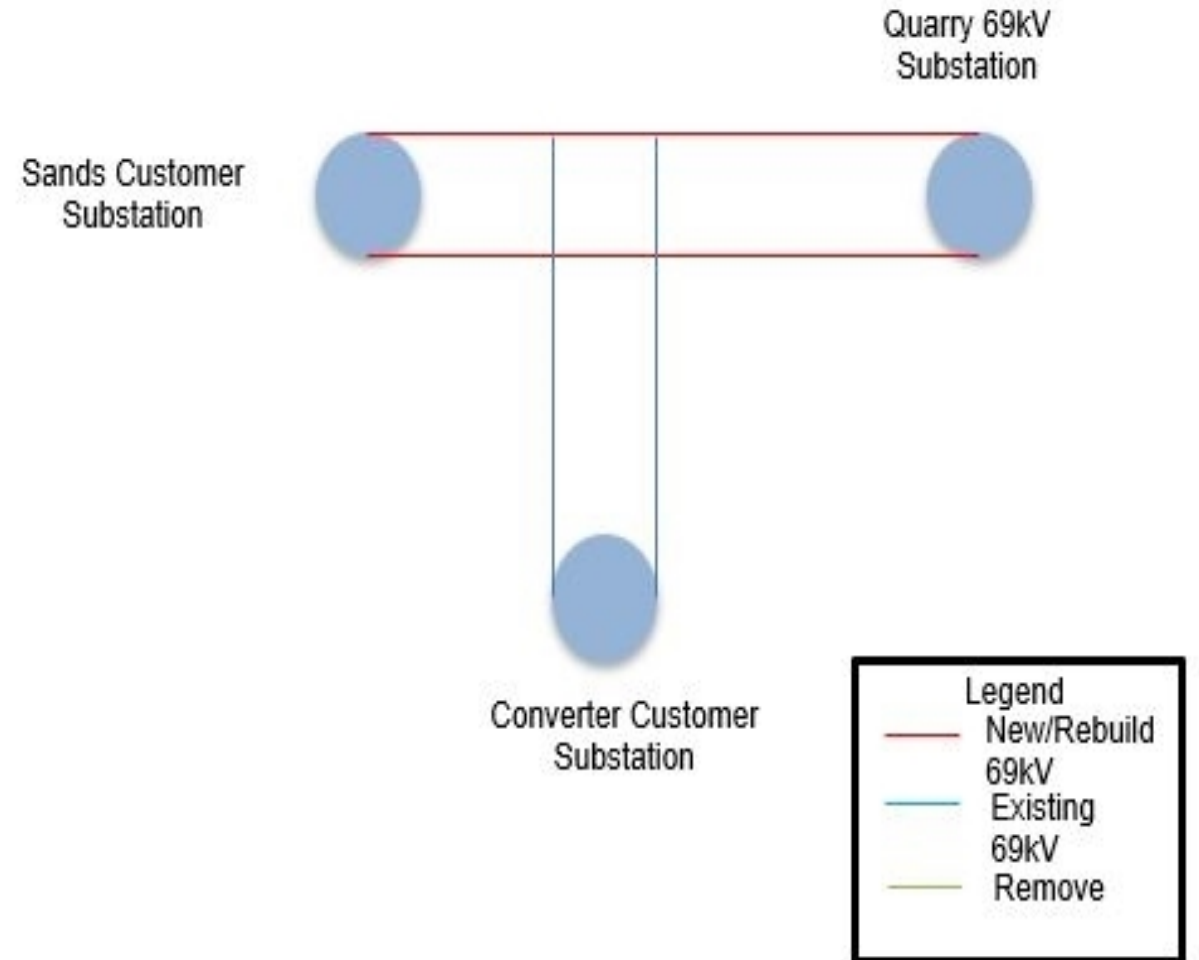
N/A

Transmission Cost Estimate: \$1.3 M

Projected In-Service: 11/30/2029

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process null

Need Number: PPL-2026-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 05/14/2026. Need Meeting 03/18/2026

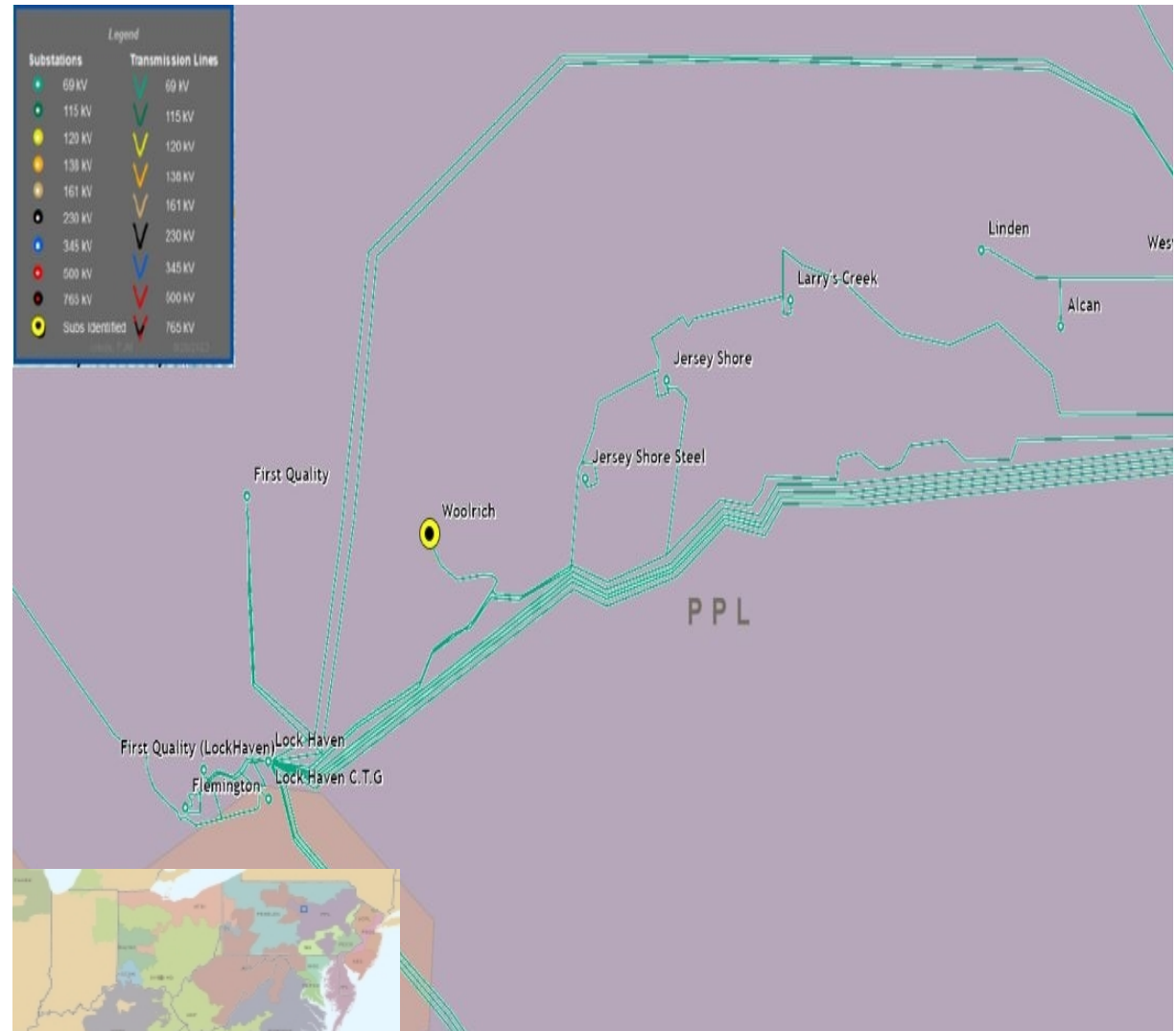
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the Woolrich 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 11/30/2028.





PPL Transmission Zone M-3 Process

null

Need number(s): PPL-2026-0006

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Woolrich Tap (s3916.1)

- Tap the existing Lycoming - Lock Haven #4 69kV line and extend ~0.9 miles to Woolrich Substation transformer bay 2 position.
- Utilize 556 ACSR
- Estimated Cost: \$2.1 M

Ratings MVA (SN/SE/WN/WE):

Woolrich Tap (s3916.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

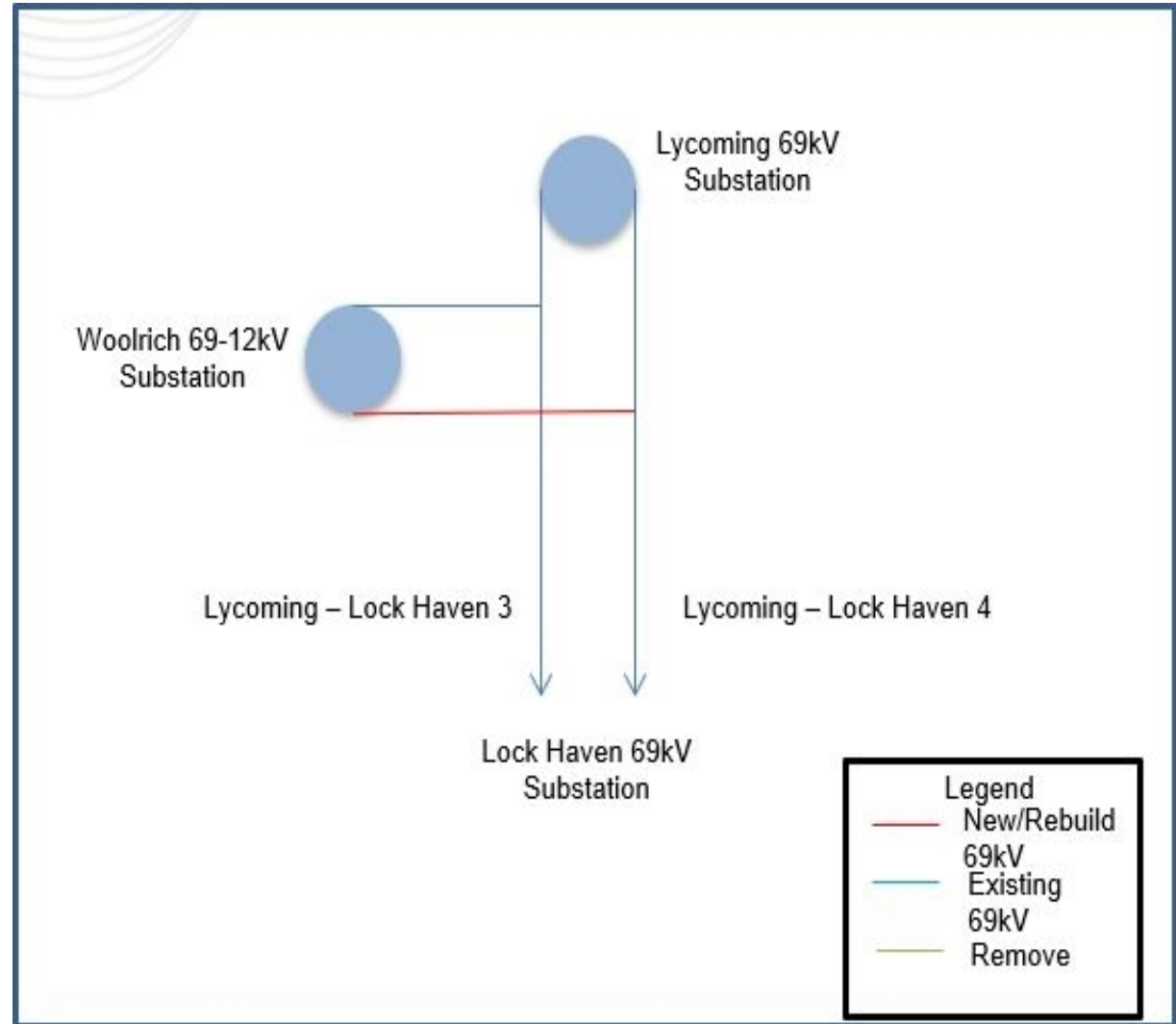
N/A

Transmission Cost Estimate: \$2.1 M

Projected In-Service: 11/30/2028

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process

Need Number: PPL-2026-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 06/16/2026. Need Meeting 02/12/2026

Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

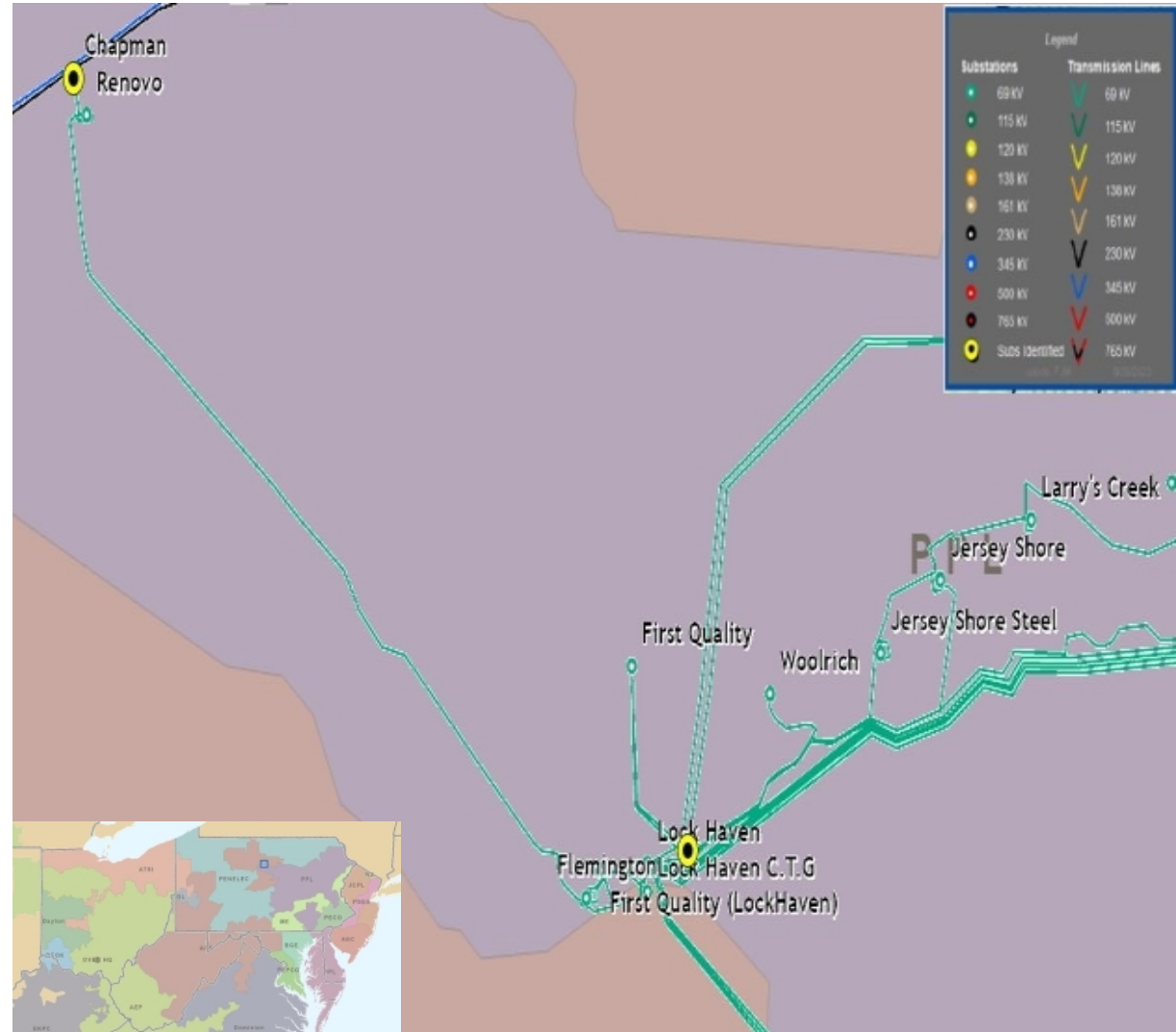
Lock Haven - Renovo 69kV:

Average age of existing Wood (74.1 years) and Tower (78 years) structures have approached or are nearing expected life, . The existing 1/0 AWG conductor has exceeded its expected age, installed in 1948. The existing shield wire has multiple vintages, the majority installed in 1948.

Renovo - Flemington 69kV:

The Renovo - Flemington and Lock Haven - Renovo 69kV lines run parallel on double circuit structures for ~0.92 miles. The existing Renovo - Flemington 556 ACSR conductor is approaching its expected age, installed in 1971.

Requested in-service 6/30/2030.





PPL Transmission Zone M-3 Process null

Need number(s): PPL-2026-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Renovo - Lock Haven Double Circuit Rebuild (s3926.1)

- Rebuild ~22.1 miles of Renovo Tap 69kV line as Double Circuit. Rebuild ~2.1 miles of Lock Haven - Renovo 69kV line to Flemington Tap. Reconductor ~0.9 miles of the Flemington taps on the Lock Haven - Flemington and Lock Haven - Renovo 69kV lines. Utilize 556 ACSR.

- Estimated Cost: \$59.9 M

Ratings MVA (SN/SE/WN/WE):

Renovo - Lock Haven Double Circuit Rebuild (s3926.1)

- Before Proposed Solution: 32/45/48/56
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

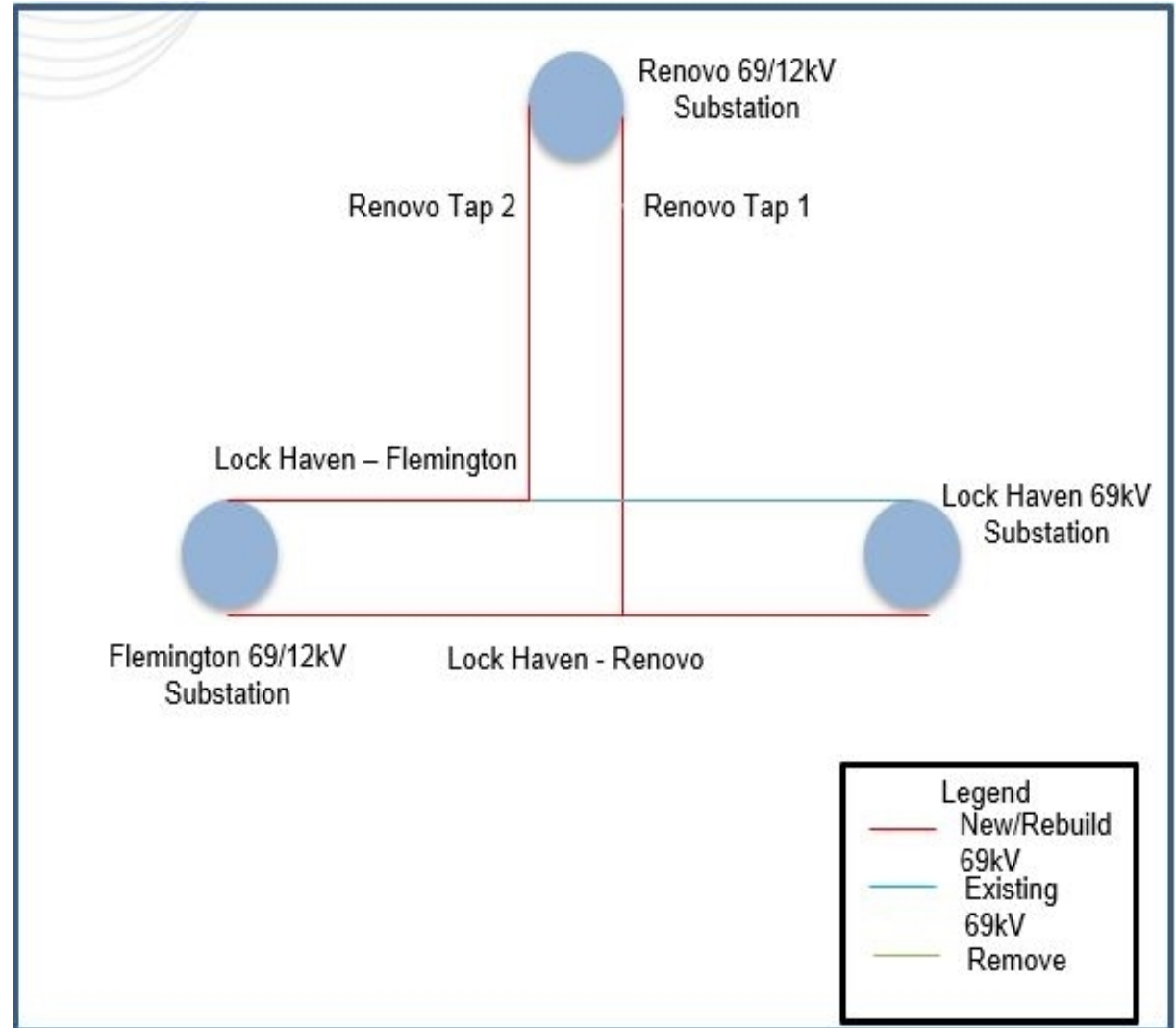
N/A

Transmission Cost Estimate: \$59.9 M

Projected In-Service: 11/30/2030

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process null

Need Number: PPL-2026-0020

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 04/14/2026. Need Meeting 03/18/2026

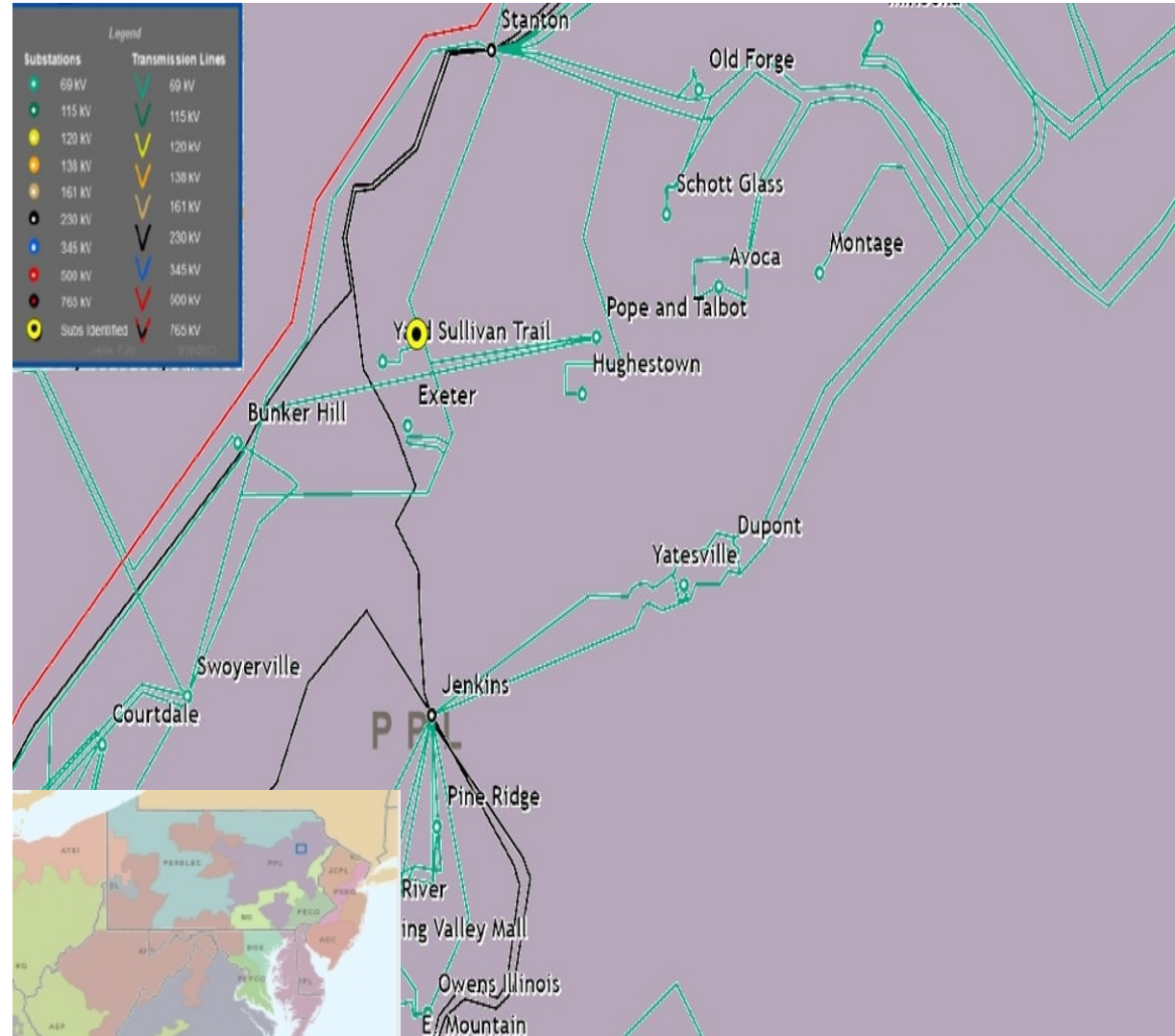
Project Driver: Customer Service

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

PPL Distribution is requesting to feed the Sullivan Trail 69-12kV Substation from an additional independent source to improve operational flexibility and reliability. Requested in-service 2/1/2027.





Need number(s): PPL-2026-0020

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Sullivan Trail Tap (s3914.1)

- Tap existing Stanton - Avoca 2 69kV line. Extend circuit 0.2 miles into to Sullivan Trail 69kV Substation transformer bay 2 (L) position.
- Utilize 556 ACSR

- Estimated Cost: \$1 M

Ratings MVA (SN/SE/WN/WE):

Sullivan Trail Tap (s3914.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

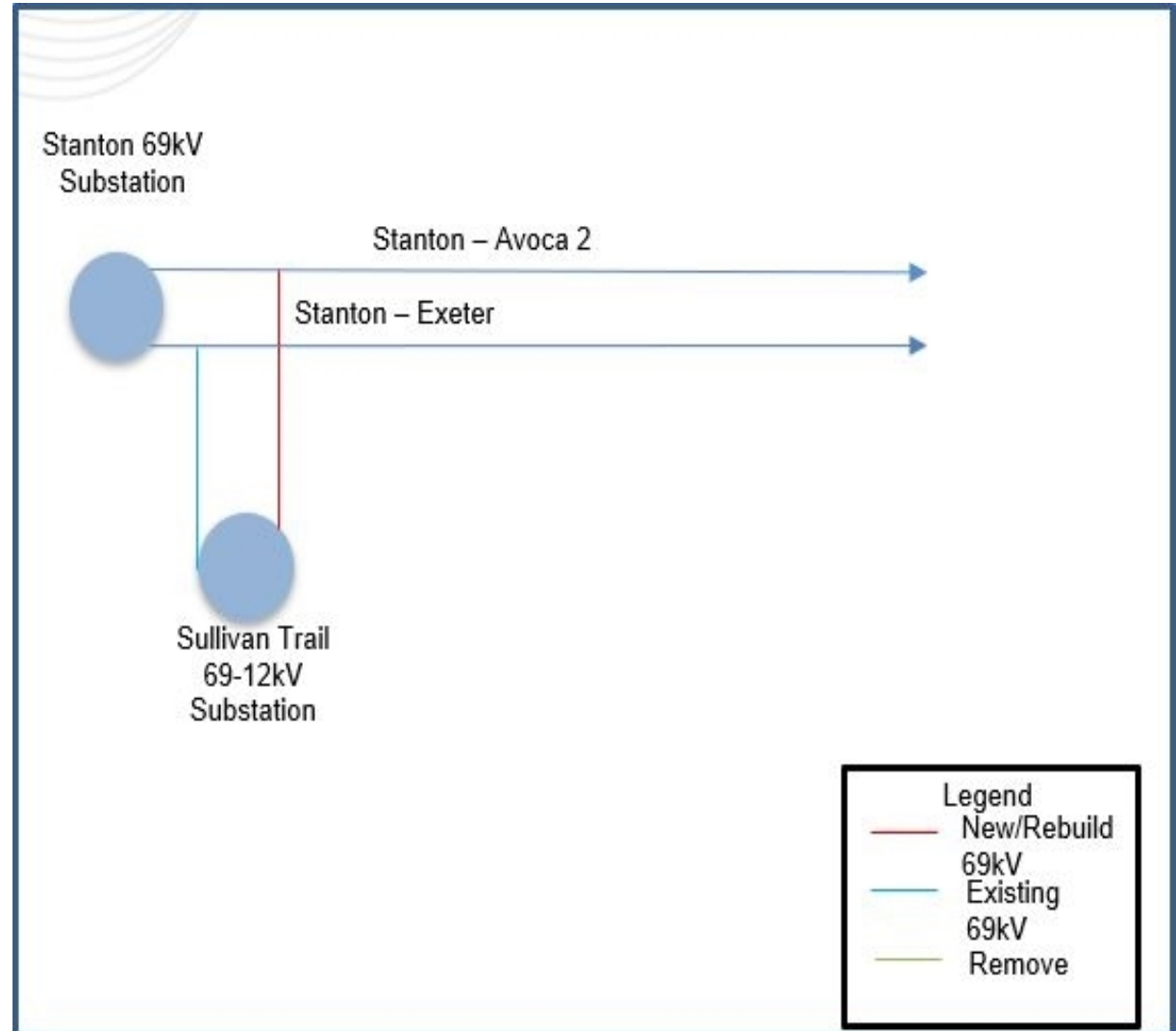
N/A

Transmission Cost Estimate: \$1 M

Projected In-Service: 02/01/2027

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process

Need Number: PPL-2026-0024

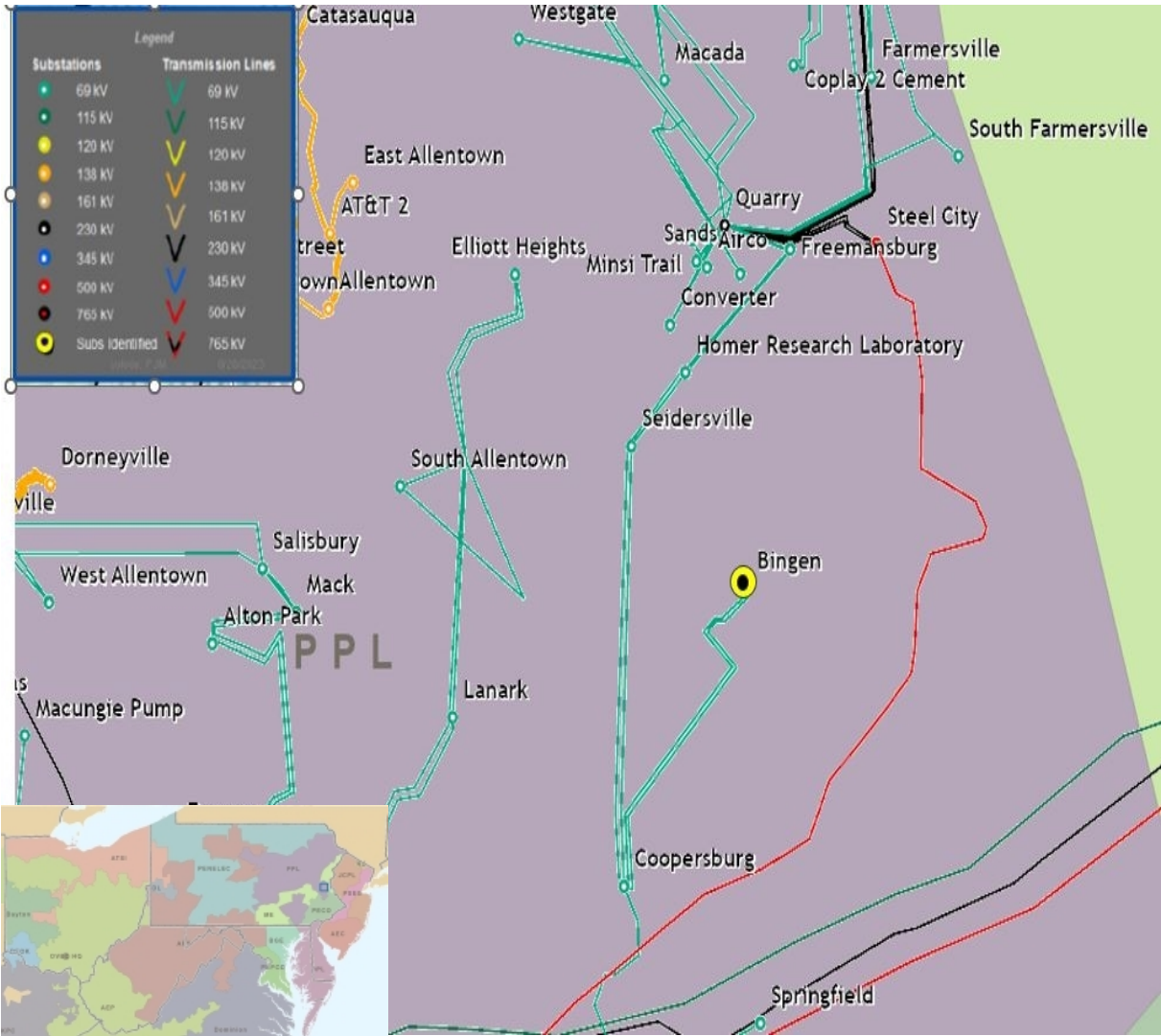
Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 04/14/2026. Need Meeting 03/18/2026

Project Driver: Customer Service

Specific Assumption References:
PPL 2026 Annual Assumptions

Problem Statement:
PPL Distribution is requesting to feed the Bingen 69-12kV Substation from an additional source to improve operational flexibility and reliability. Requested in-service 11/30/2027.





Need number(s): PPL-2026-0024

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Bingen Tap 69kV (s3902.1)

- Tap the existing COOP-BING tie and extend the new transformer position at Bingen substation.
- Utilize 556 ACSR

- Estimated Cost: \$0.6 M

Ratings MVA (SN/SE/WN/WE):

Bingen Tap 69kV (s3902.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

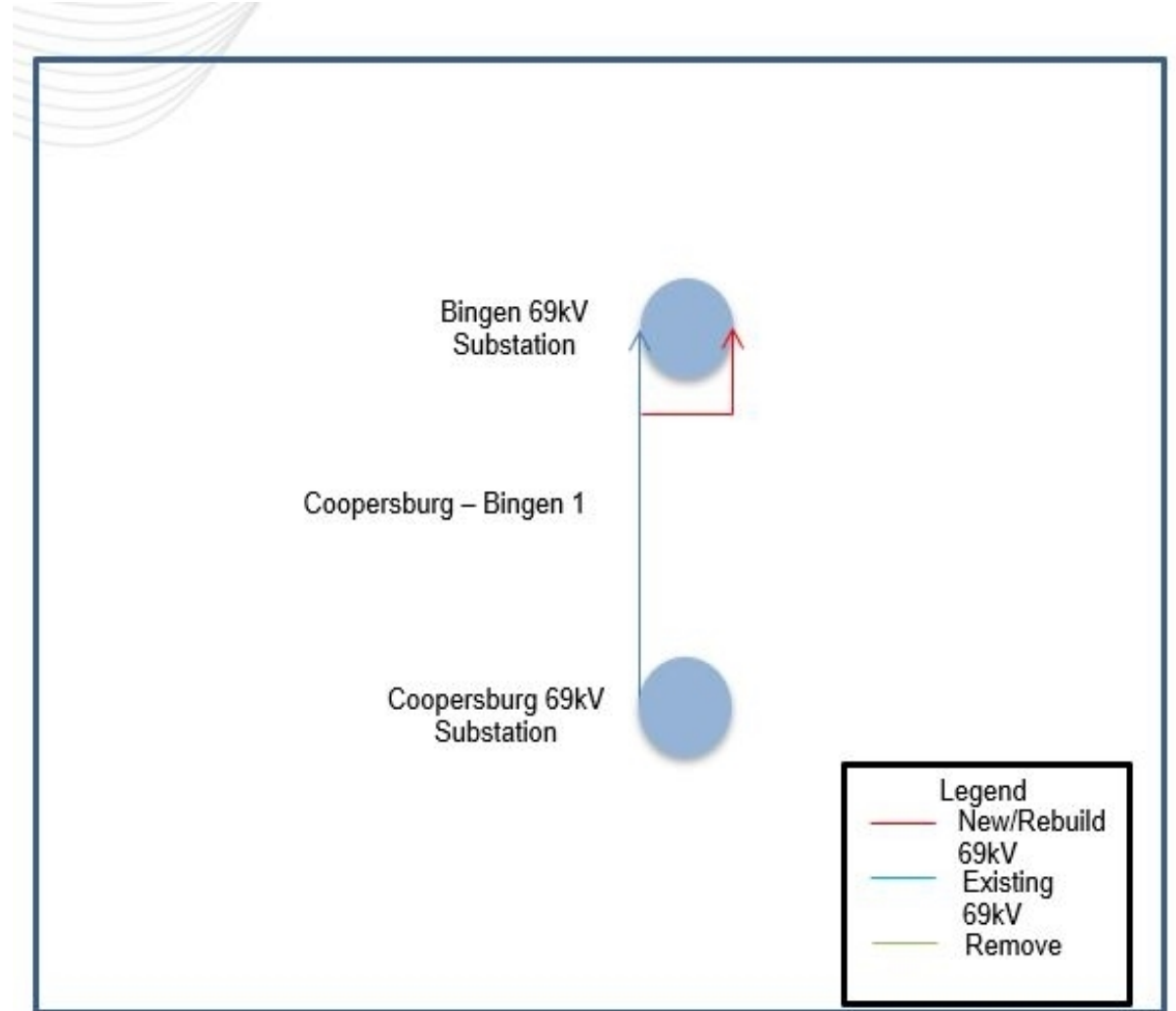
Convert BING Tap and COOP-BING Tie to double circuit. This solution would significantly increase costs and environmental impacts due to new structure and additional ROW needed.

Transmission Cost Estimate: \$0.6 M

Projected In-Service: 11/30/2027

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Cumberland - West Shore 1 & 2 69kV line upgrades

Need Number: PPL-2026-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 03/18/2026. Need Meeting 02/12/2026

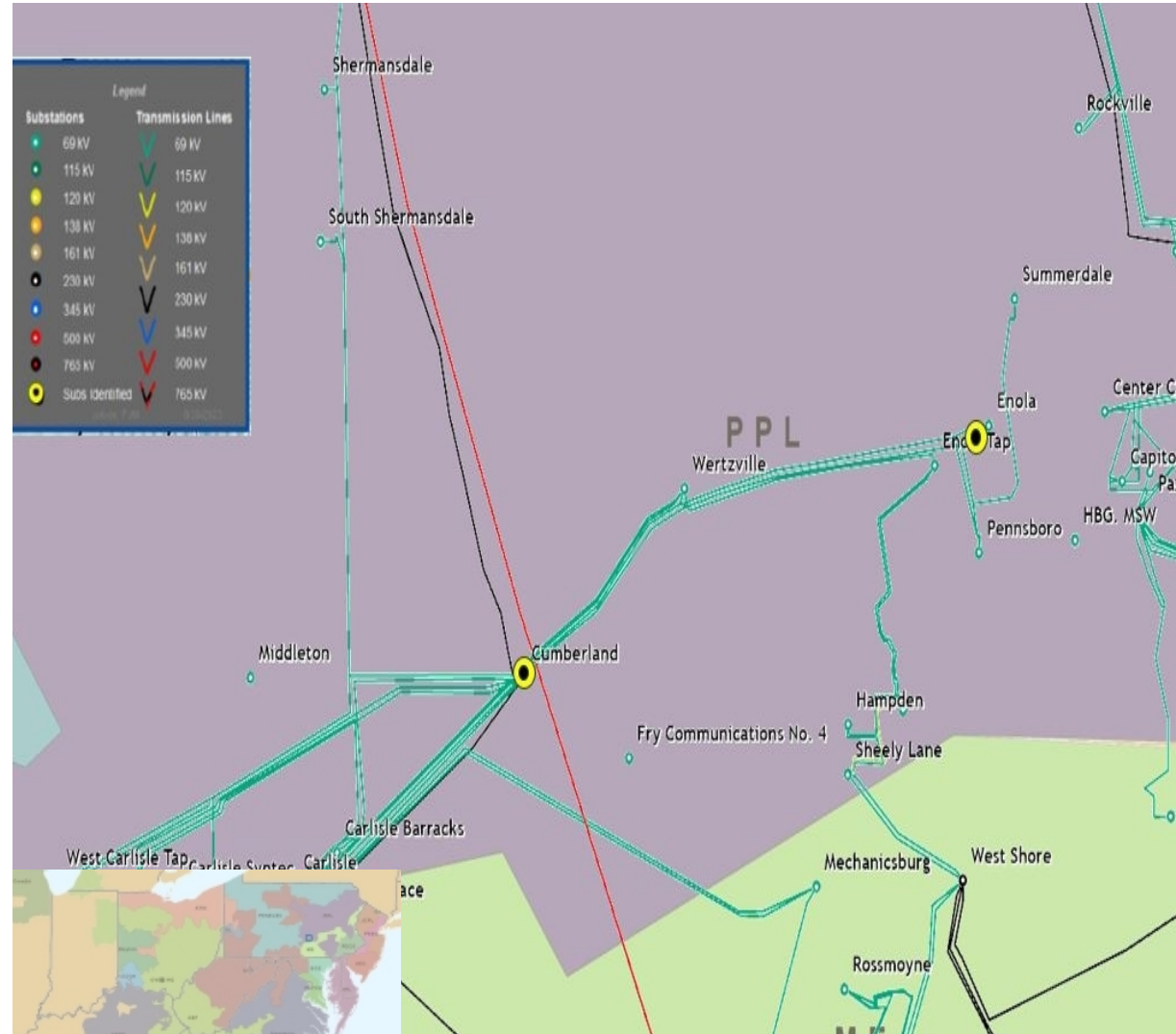
Project Driver: Equipment Condition/Performance/Risk

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

The Cumberland-West Shore 1 & 2 69kV lines (from Cumberland to Enola Tap) are a reliability risk due to poor asset health. The majority of the structures were installed in 1967. Requested in-service date is 6/30/2029





Need number(s): PPL-2026-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
09/17/2026

Proposed Solution:

Cumberland - West Shore 1 & 2 69kV (s3900.1)

- Rebuild 4.11 miles of the Cumberland West Shore 1 & 2 69kV lines - from Wertzville substation to Enola Tap. Utilize 795 ACSR.
- Estimated Cost: \$20.3 M

Ratings MVA (SN/SE/WN/WE):

Cumberland - West Shore 1 & 2 69kV (s3900.1)

- Before Proposed Solution: 68/91/78/103
- After Proposed Solution: 126/161/145/181

Alternatives Considered:

N/A

Transmission Cost Estimate: \$20.3 M

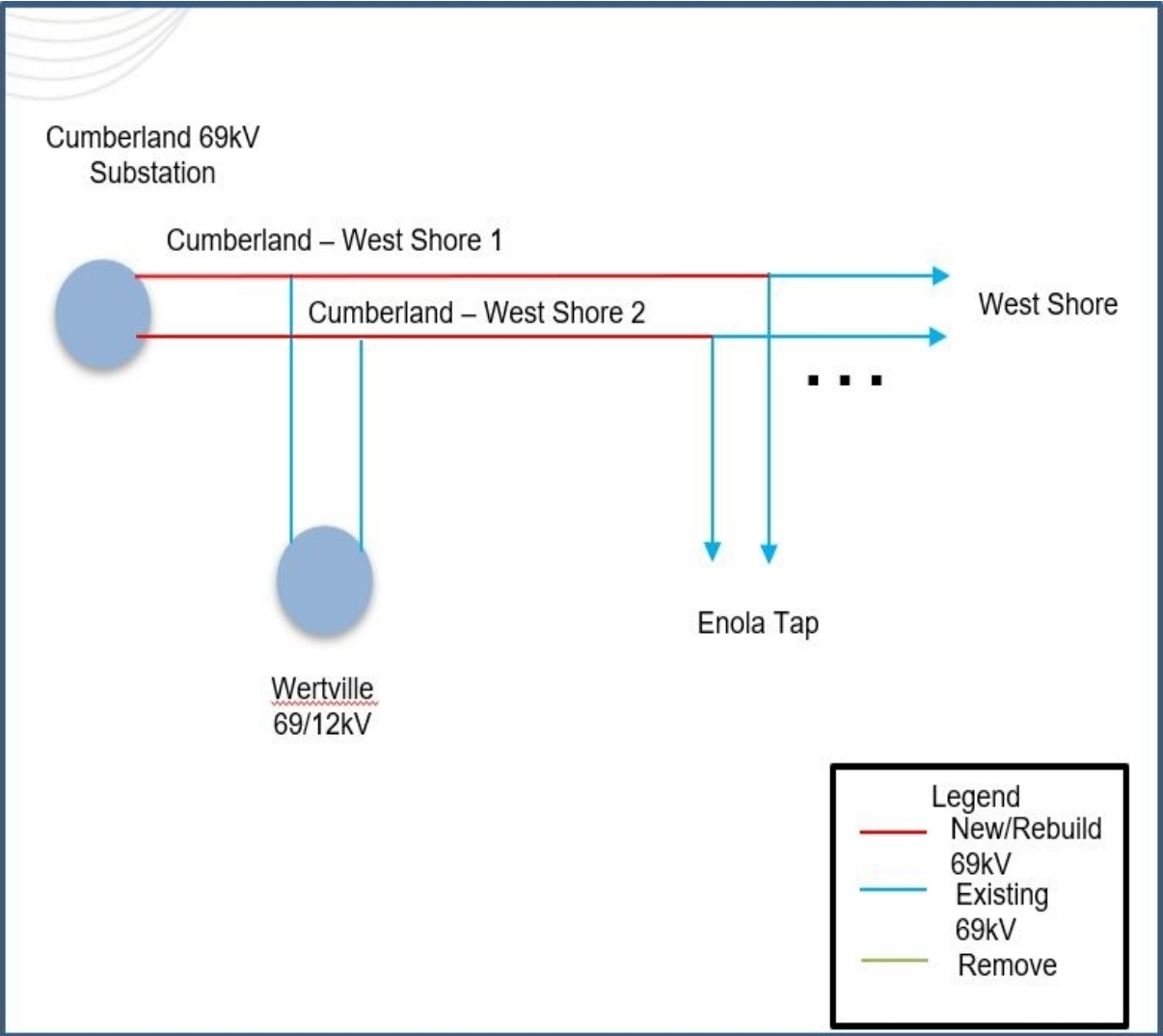
Projected In-Service: 06/30/2029

Project Status: Conceptual

Model: Not Available

PPL Transmission Zone M-3 Process

Cumberland - West Shore 1 & 2 69kV line upgrades





Need Number: PPL-2026-0010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 03/18/2026. Need Meeting 02/12/2026

Project Driver: Infrastructure Resilience

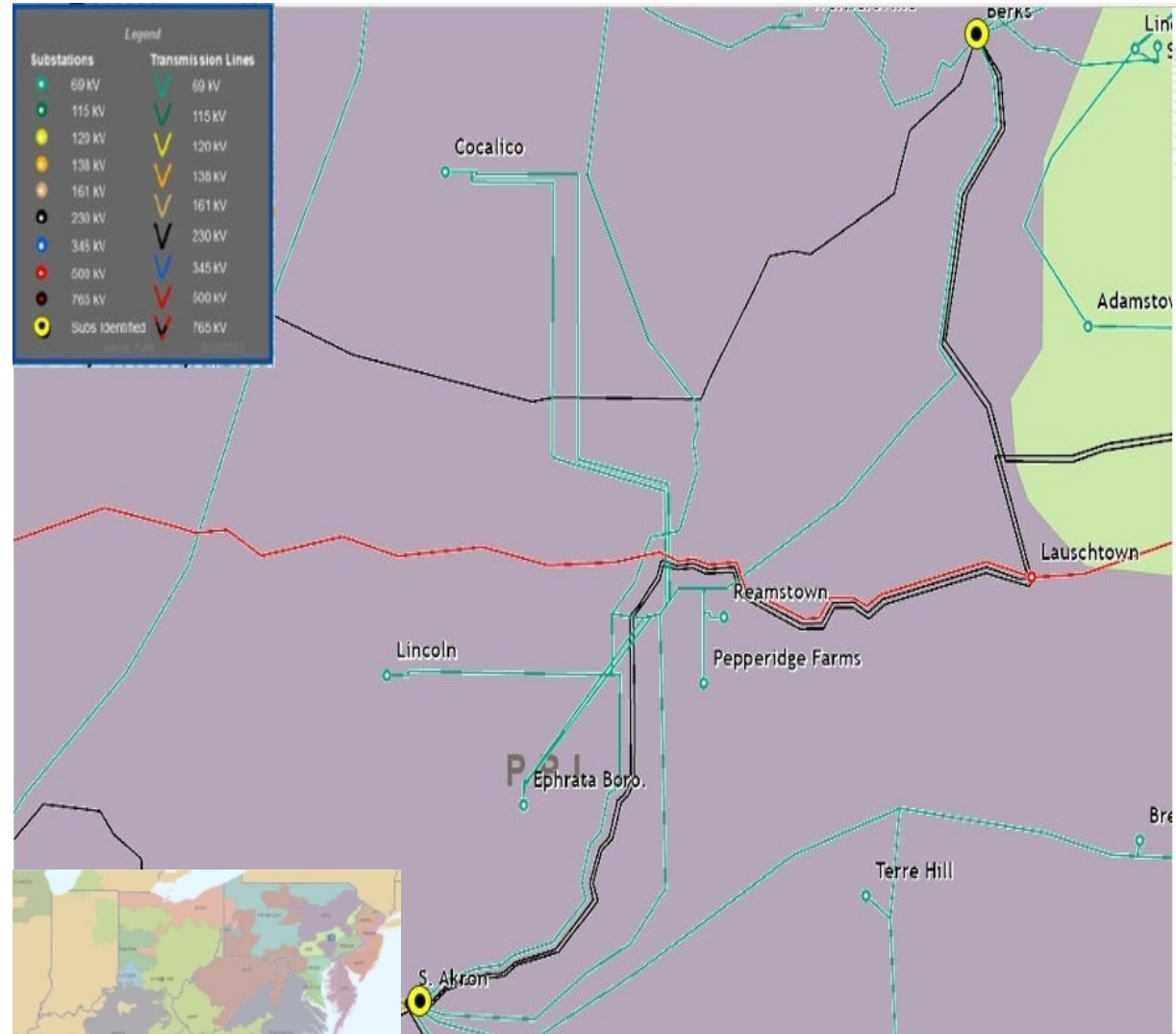
Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

Reclosures are being added to the Berks-South Akron 2 69kV line to reduce outage exposure. To accommodate additional fiber load, portions of the line will need to be rebuilt. Requested in-service date is 12/31/2028.

PPL Transmission Zone M-3 Process Berks - South Akron 2 69kV upgrade





PPL Transmission Zone M-3 Process

Berks - South Akron 2 69kV upgrade

Need number(s): PPL-2026-0010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Berks - South Akron 2 69kV (s3901.1)

- Rebuild 14.2 miles and reconductor 5.3 miles of the Berks-South Akron 2 69kV line. Utilize 556 ACSR conductor.

- Estimated Cost: \$38.3 M

Ratings MVA (SN/SE/WN/WE):

Berks - South Akron 2 69kV (s3901.1)

- Before Proposed Solution: 68/91/78/103
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

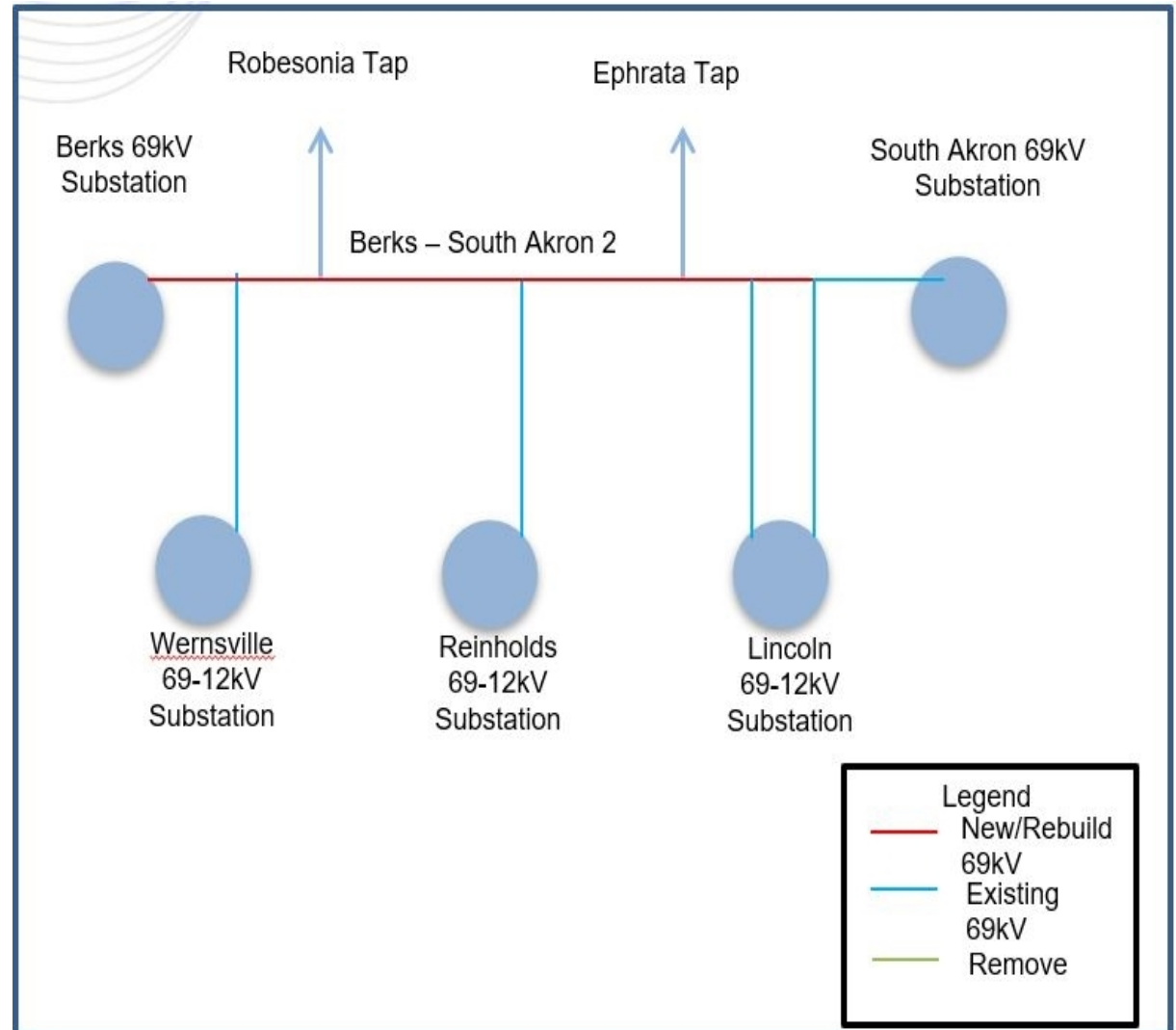
N/A

Transmission Cost Estimate: \$38.3 M

Projected In-Service: 12/31/2028

Project Status: Conceptual

Model: Not Available





PPL Transmission Zone M-3 Process Tinker Tap Strengthening

Need Number: PPL-2026-0017

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Previously Presented: Solution Meeting 04/14/2026. Need Meeting 03/18/2026

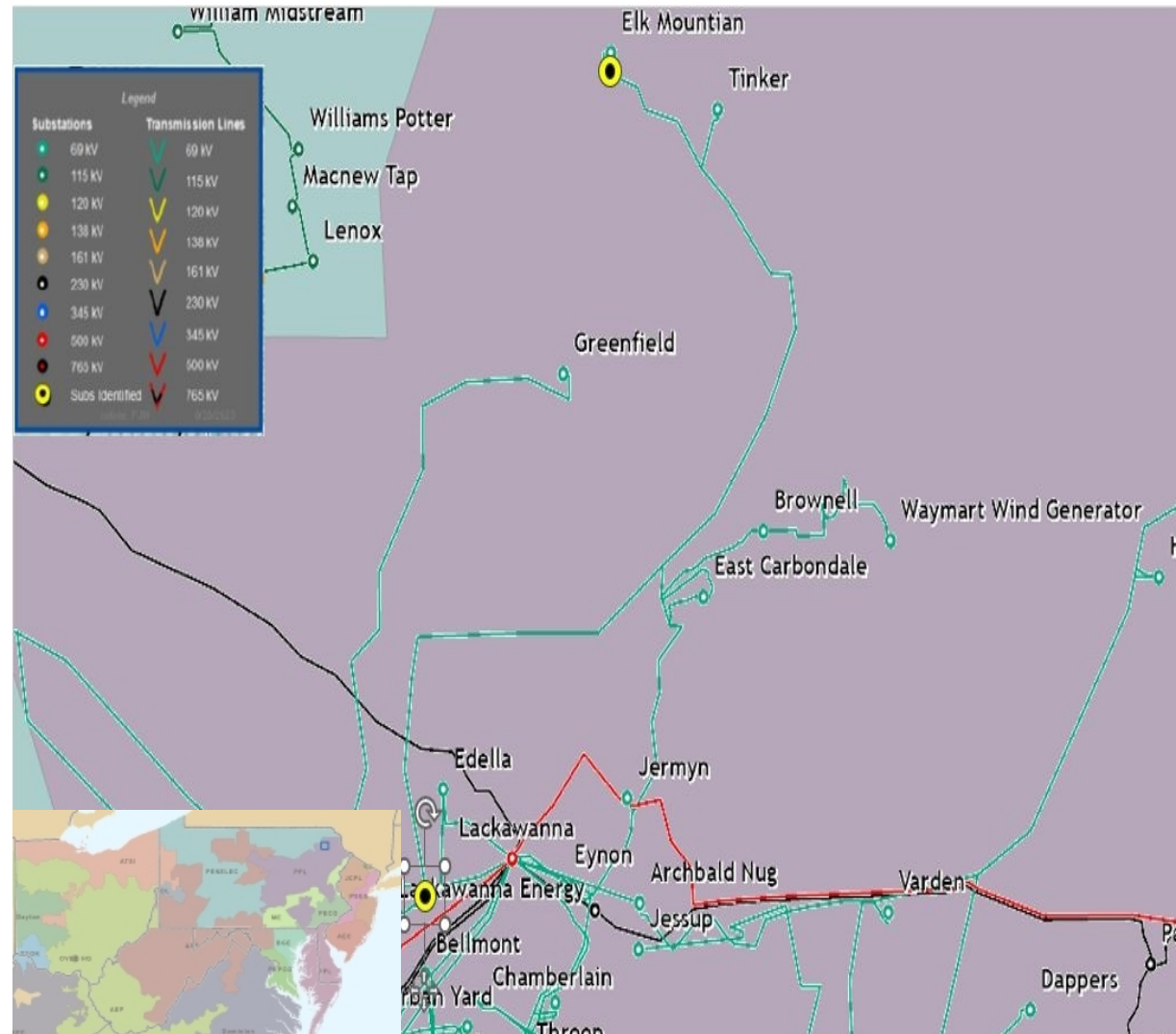
Project Driver: Operational Flexibility and Efficiency

Specific Assumption References:

PPL 2026 Annual Assumptions

Problem Statement:

Tinker and Elk Mountain Distribution substations are susceptible to stranded load and momentary outages due to the single transmission line design. Requested in-service date is 11/30/2029.





PPL Transmission Zone M-3 Process Tinker Tap Strengthening

Need number(s): PPL-2026-0017

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/17/2026

Proposed Solution:

Tink Tap Strengthening (s3912.1)

- Tap existing Lackawanna - Brookside 69kV line. Extend circuit as double circuit transmission line with existing Lackawanna - Greenfield, approximately 15.6 miles to Tinker 69-12kV Substation transformer bay 2.
- Utilize 556 ACSR

- Estimated Cost: \$34.6 M

Ratings MVA (SN/SE/WN/WE):

Tink Tap Strengthening (s3912.1)

- Before Proposed Solution: NA/NA/NA/NA
- After Proposed Solution: 96/125/111/141

Alternatives Considered:

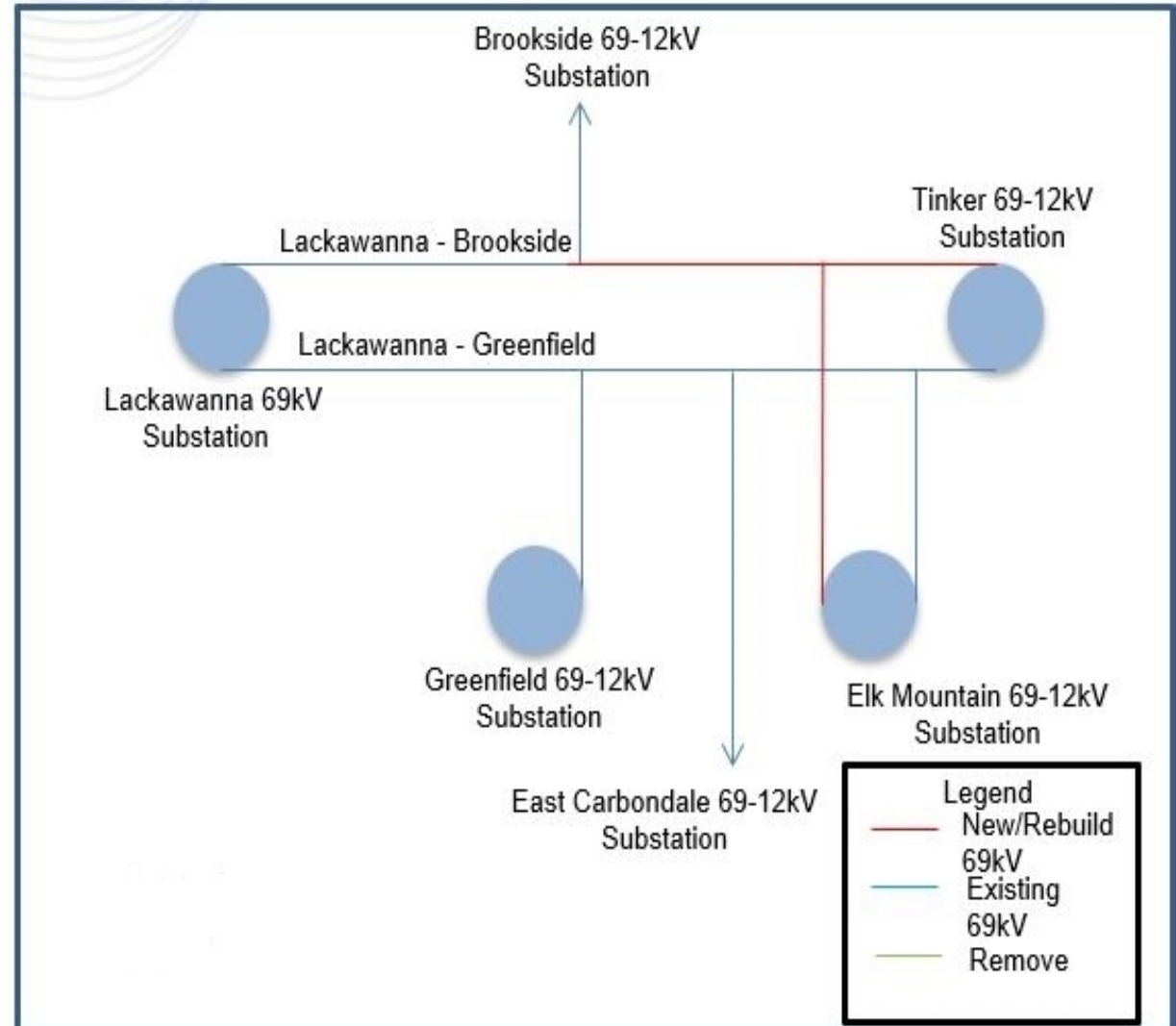
Tapping Lackawanna - East Carbondale 2 69kV line. This option does not allow for future flexibility for upgrades at Greenfield Substation. Estimated \$32.0M

Transmission Cost Estimate: \$34.6 M

Projected In-Service: 11/30/2029

Project Status: Conceptual

Model: Not Available



Revision History

01/12/2026 – V1 – s3738 through s3741

3/3/2026 – V2 – s3781

3/13/2026 – V3 – s3528, s3800-s3805

5/11/2026 – v4 – s3819

5/21/2026 – v5 – s3849-s3861 added

9/17/2026 – v6 –s3900-s3902, s3912, s3914,s3916-s3926