

Submission of PPL Supplemental Projects for Inclusion in the 2024 Local Plan

PPL Transmission Zone: Supplemental

Need Number: PPL-2019-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Need Presented: 09/14/2023

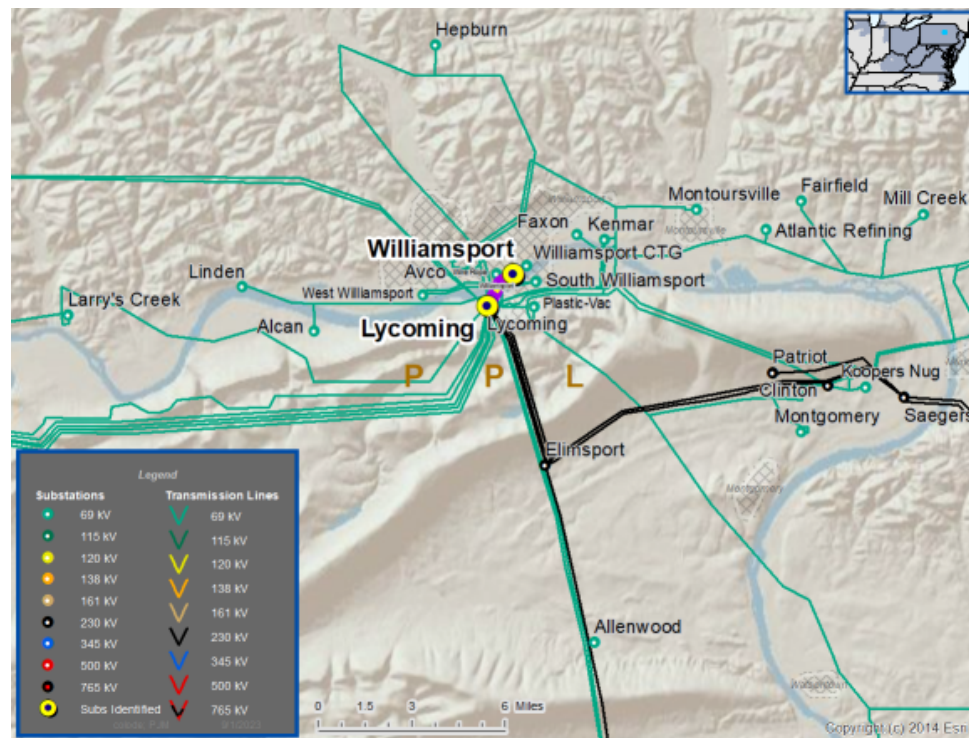
Solution Presented: 10/19/2023

Supplemental Project Driver: Equipment Material Condition, Performance and Risk;

Problem Statement:

The Lycoming – Williamsport #1 & #2 69kV lines are a reliability risk due to poor asset health. The lines are in poor condition with the original assets being installed in 1930. These are two single circuit lines at 1.75 and 2.1 miles, respectively. The lines have the original 2/0 and 4/0 Cu conductor and are primarily wood poles with steel poles interspersed. On the lines, 62 of the 88 poles are wood with the remainder steel. There have 3 outages on this line since 2015:

Cause	Momentary	Permanent	Total
Foreign Interference (Other utility)	1	0	1
Lightning	2	0	2
Grand Total	3	0	3



Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

Need Number: PPL-2019-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Rebuild the Lycoming – Williamsport #2 69kV line (2.1 miles) to double circuit 69kV operation with 556 ACSR conductor. Remove 1.2 miles of the Lycoming – Williamsport #1 69kV line.

Alternatives Considered:

1. Removing the lines was not feasible due to distribution substations being served from the lines.
2. Keeping the lines as two single circuits was determined to be less cost effective. This arrangement was estimated at \$7.5M

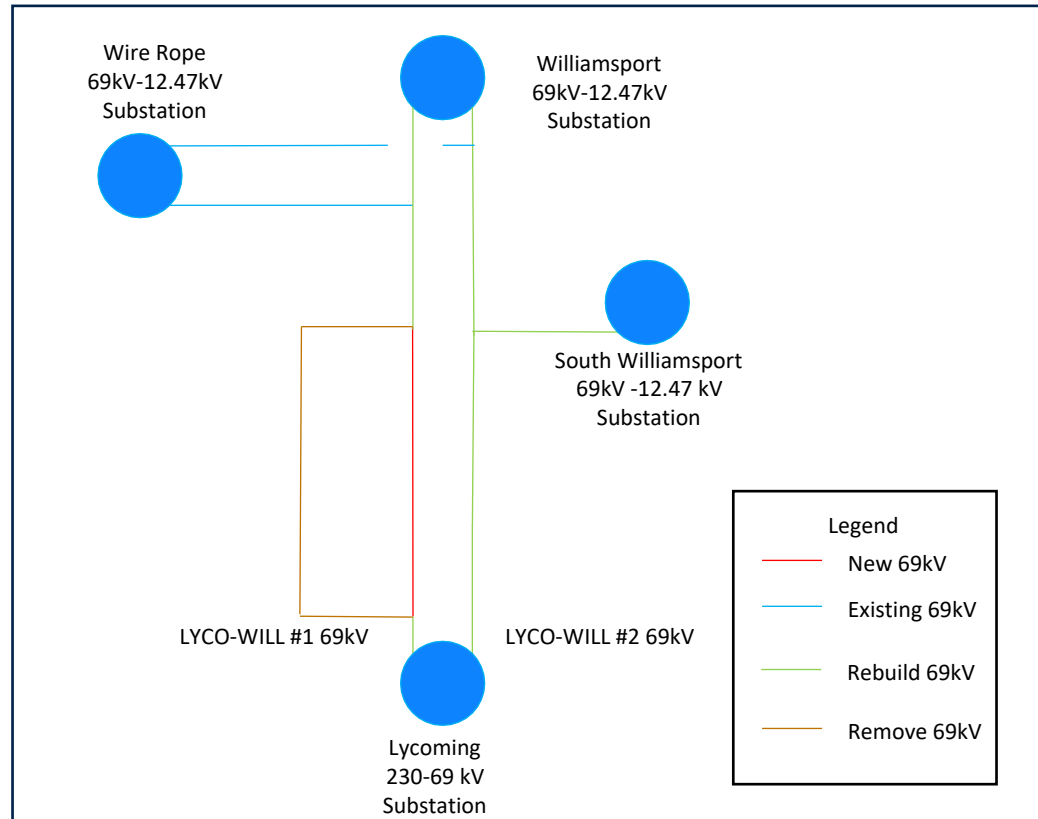
Estimated Project Cost: \$6M

Projected In-Service: 12/30/2027

Project Status: Conceptual

Model: 2027

Supplemental #: s3085.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Need Slide Presented: 03/16/2023

Solution Presented: 07/20/2023

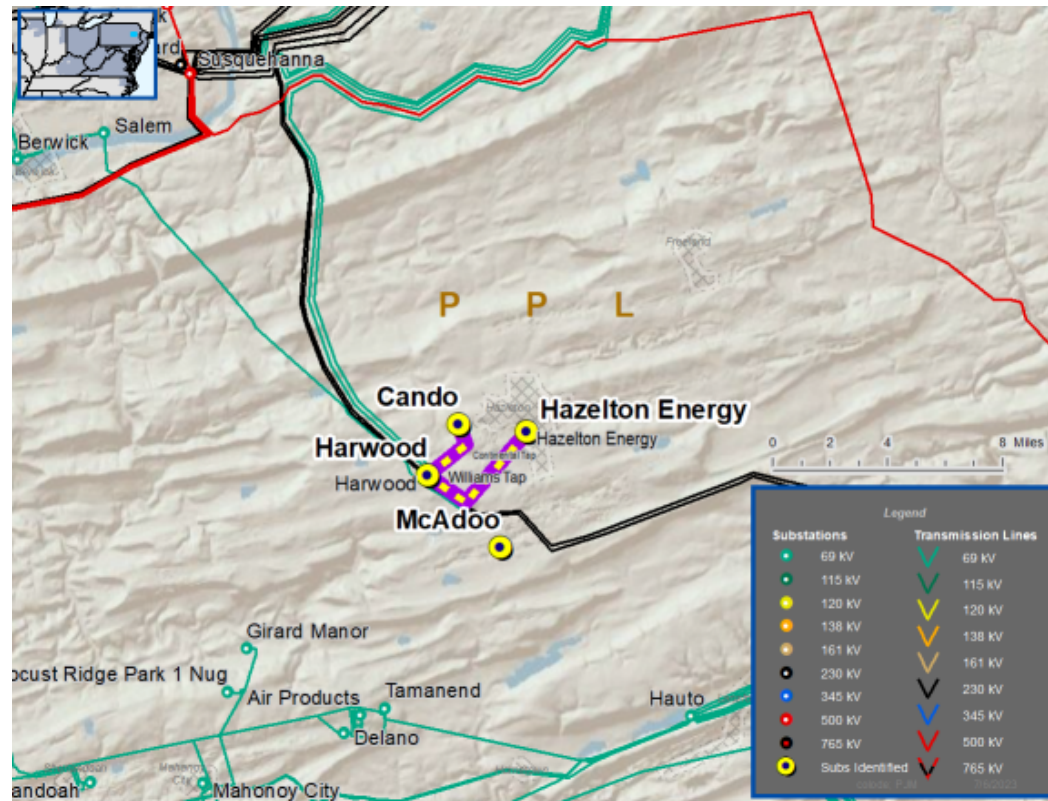
Supplemental Project Driver: Customer Service

Problem Statement:

- PPL Distribution has submitted a request for double circuit 69kV service for a new 69-12kV substation near Hazelton, PA. There have been multiple requests for distribution service from new customers with a total expected load addition of 40-45 MWs. The distribution system in the area does not have sufficient capacity to serve the load.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

- Extend a new double circuit 69kV tap from the existing Harwood – East Hazelton 1 & 2 69kV lines line to interconnect a PPL Distribution owned 69-12.47kV substation (McAdoo).
- Add a second circuit from Harwood substation to Cando tap (1.3 miles), reconfigure existing circuits from Cando and Harleigh, and install 3.6 miles of new double circuit 69kV from Harleigh to East Hazelton.

Alternatives Considered:

Installing a new 230/69kV substation close to McAdoo but would cost greater than \$40 million.

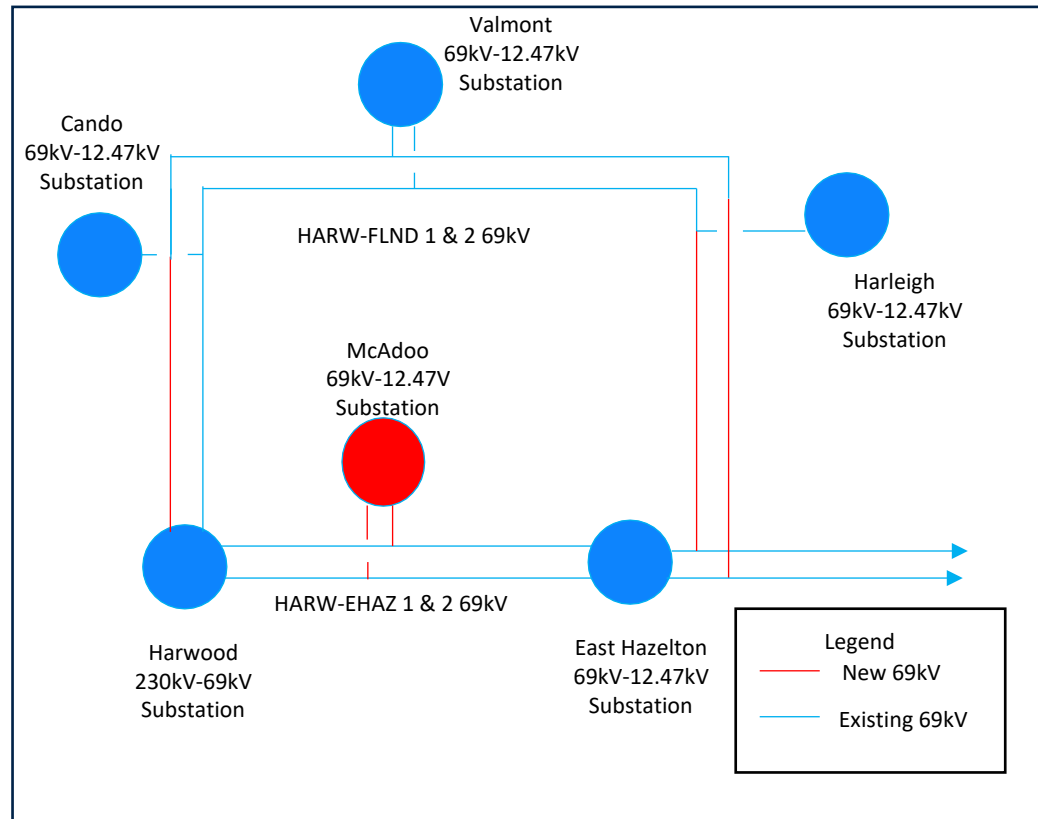
Estimated Project Cost: \$15M

Projected In-Service: 12/1/2027

Project Status: Conceptual

Model: 2027

Supplemental #: s3082.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Need Slide Presented: 09/14/2023

Solution Presented: 10/19/2023

Supplemental Project Driver: Equipment Material Condition, Performance, and Risk.

Operational Flexibility and Efficiency.

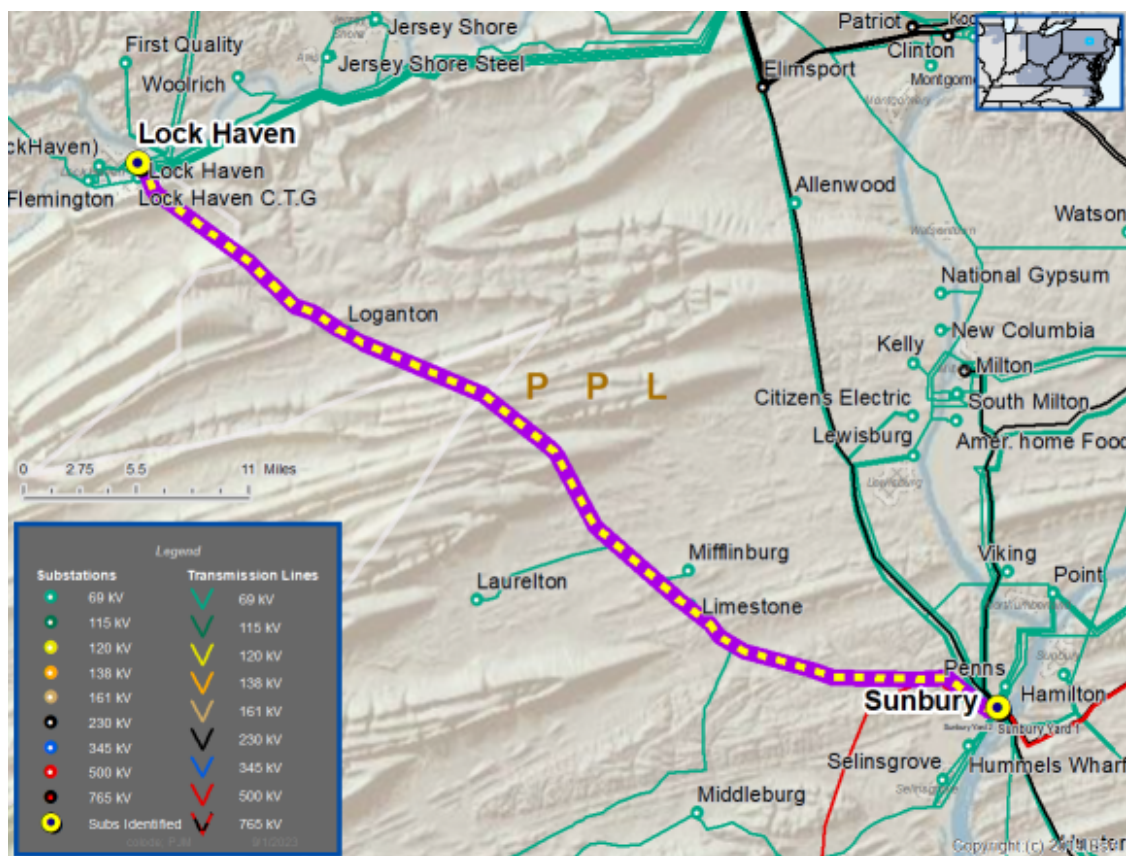
Problem Statement:

The Sunbury-Lock Haven 69kV line is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1949. The line consists of 420 wood poles, 10 towers, and 349 steel poles. The 556 ACSR conductor was installed in 1971. The line has experienced 11 operations since 2017. Transfer capability is limited in the Lock Haven area due to the long line lengths (~40 miles) and the network operation. There is customer outage exposure when taking line sections out for maintenance.

Cause	Momentary	Permanent	Total
Foreign Interference (Animal)	2	0	2
Lightning	4	0	4
Vegetation	1	2	3
Failed AC Substation Equipment	1	0	1
Foreign Interference – Machinery	1	0	1
Grand Total	9	2	11

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0007

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Rebuild the Sunbury – Lock Haven 69kV line (~39 miles) to double circuit 69kV operation with 795 ACSR conductor. Install new line terminals at Sunbury and Lock Haven substations to accommodate the new circuit.

Alternatives Considered:

1. Single Circuit initial, future double circuit 69kV design. This was estimated at \$88 M and \$26.75 M to add the second circuit in the future.

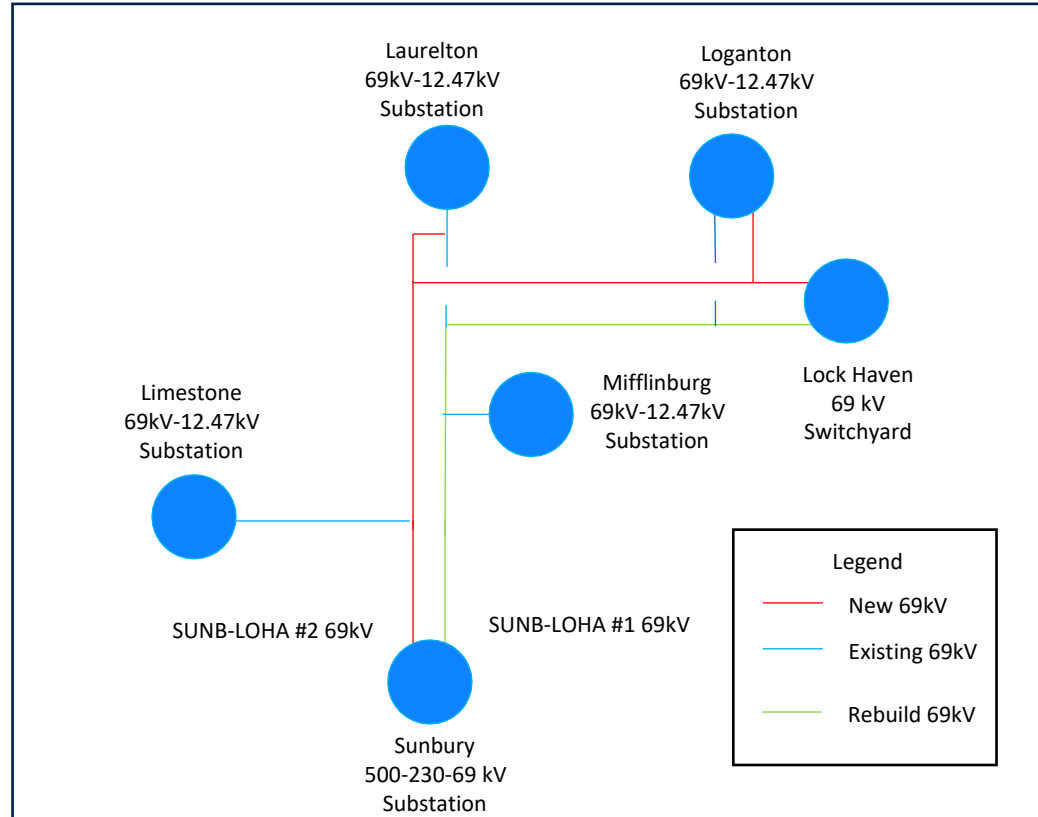
Estimated Project Cost: \$103M

Projected In-Service: 12/30/2028

Project Status: Conceptual

Model: 2028

Supplemental #: s3083.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

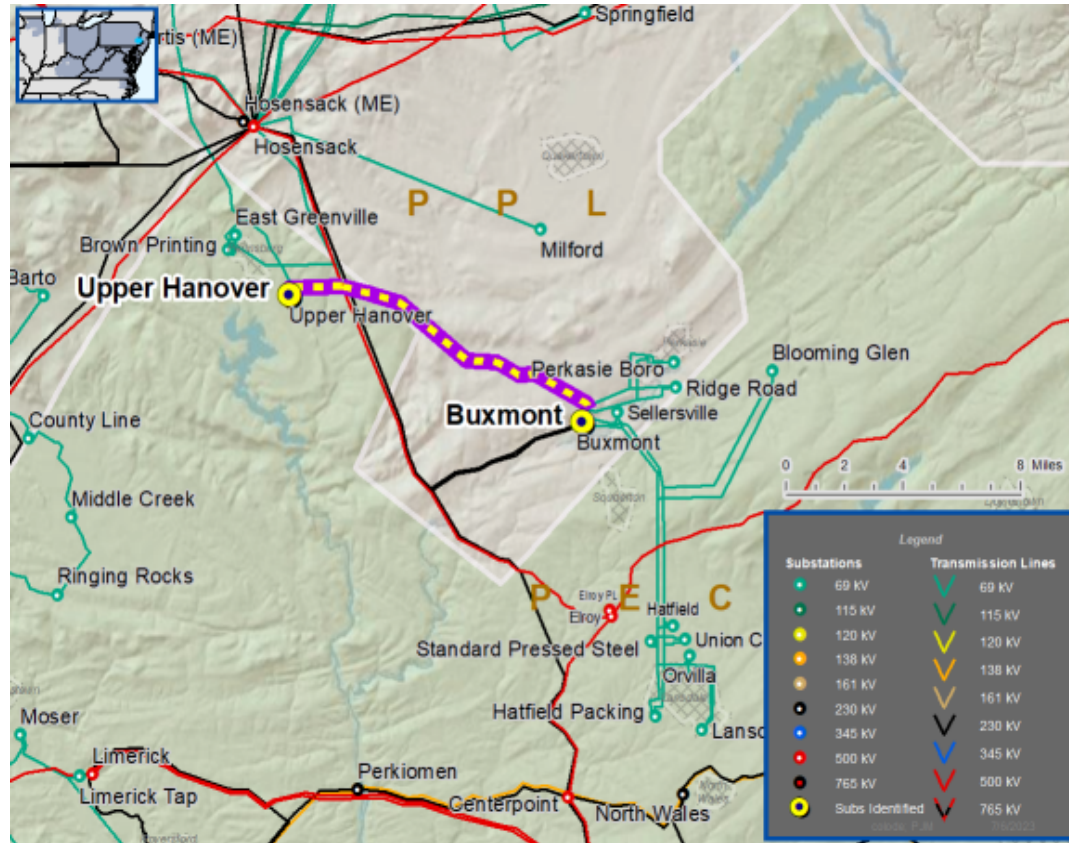
Need Slide Presented: 07/20/2023

Solution Presented: 09/14/2023

Supplemental Project Driver: Equipment Material Condition, Performance and Risk;

Problem Statement:

The Buxmont 2 - Upper Hanover Tap 69kV Line is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1951. This is a 9.14 mile tap line with the original 2/OF copperweld copper conductor and is primarily H-frame wood poles with steel poles interspersed. 101 of the 155 poles in the line section are wood with 56 remaining from the original install. Nine structures have recently failed inspection. Since 2015, there have been 3 momentary outages and 1 permanent outage.



Cause	Momentary	Permanent	Total
Foreign Interference (Animal)	1	0	1
Lightning	1	0	1
Vegetation	1	0	1
Foreign Interference – Other Utility	0	1	1
Grand Total	3	1	4

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0008

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Rebuild the Buxmont 2 - Upper Hanover Tap 69kV line (~9.14 miles) to single circuit, future double circuit 69kV operation with 556 ACSR conductor.

Alternatives Considered:

1. Retirement of the line section would reduce operational flexibility and limit the ability to restore customers in the event of an outage.

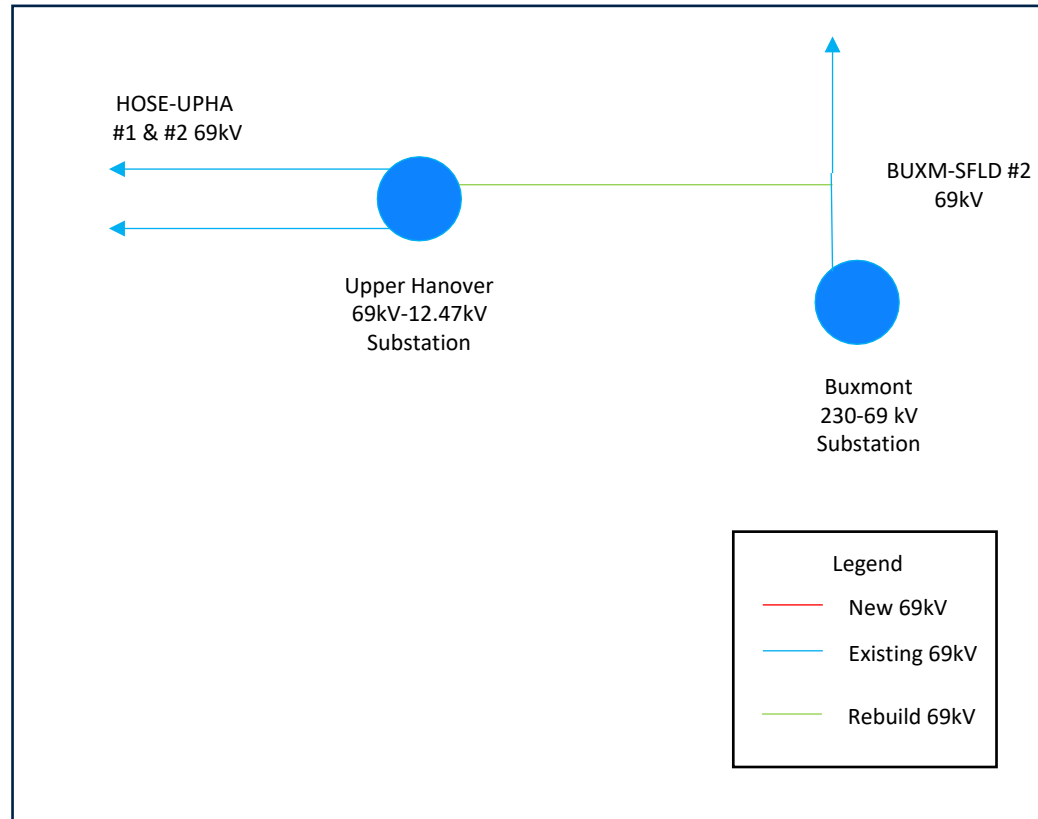
Estimated Project Cost: \$18M

Projected In-Service: 5/31/2026

Project Status: Conceptual

Model: 2027

Supplemental #: s3084.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Need Presented: 09/14/2023

Solution Presented: 10/19/2023

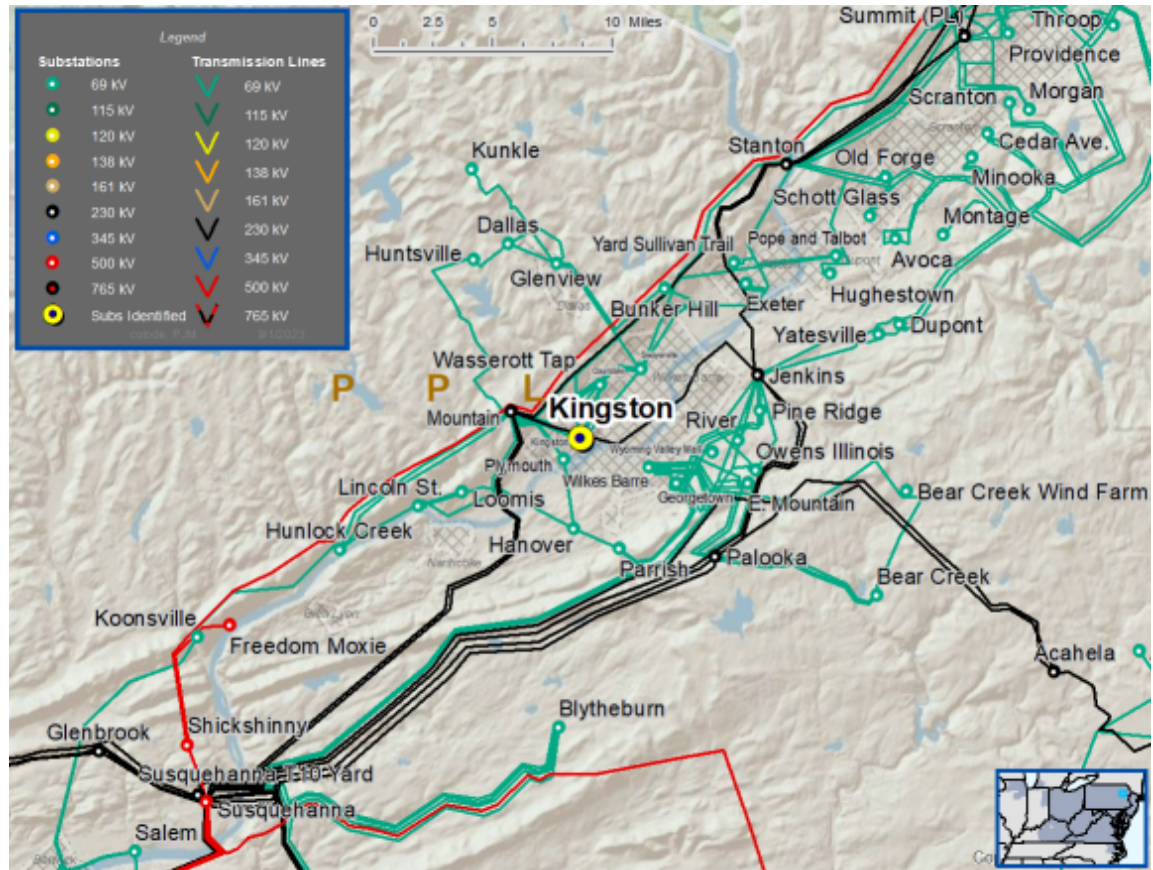
Supplemental Project Driver: Customer Service

Problem Statement:

PPL Distribution has submitted a request for a second 69kV feed at New Kingston Substation to feed a second 69-12kV transformer. There are several customers adding a combined load of 6.5 MW to New Kingston substation.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Extend a second circuit to New Kingston substation from the Cumberland – Carlisle #2 69kV line (0.06 Miles)

Alternatives Considered:

1. Tapping the Cumberland – W. Carlisle #1 69kV line was considered but the CUMB-CARL #2 was closer to the substation.

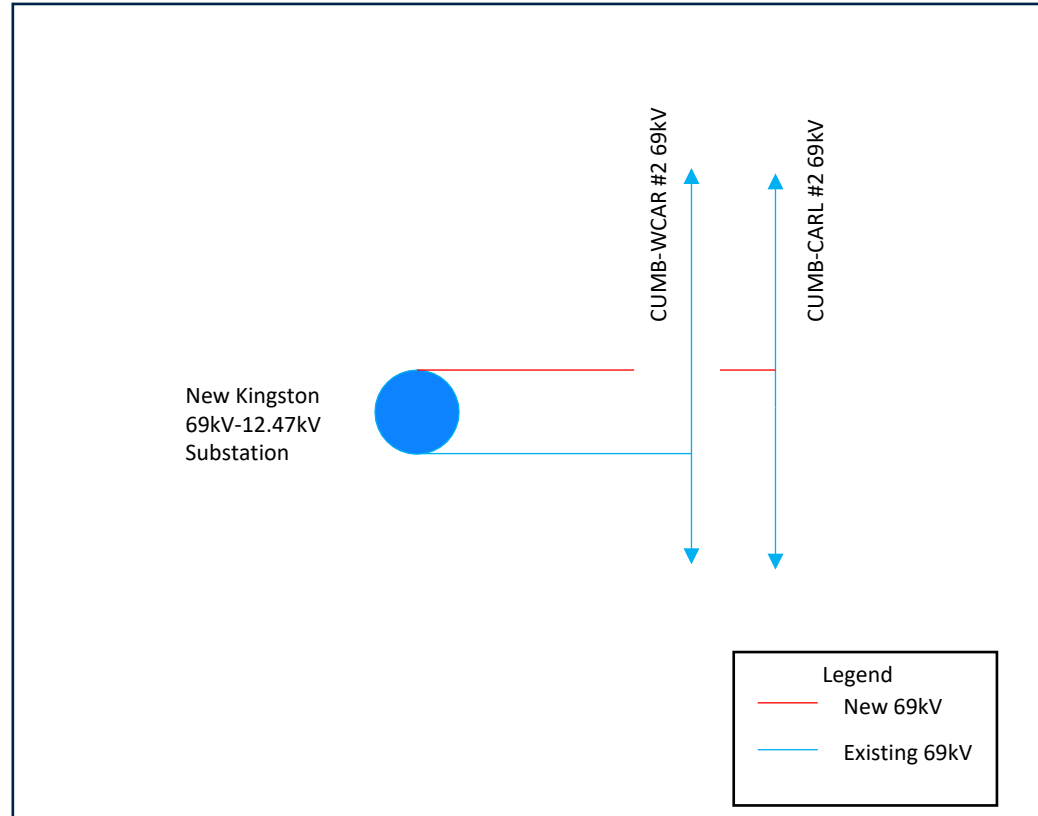
Estimated Project Cost: \$0.9M

Projected In-Service: 11/30/2025

Project Status: Conceptual

Model: 2026

Supplemental #: s3086.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan
2/27/2024

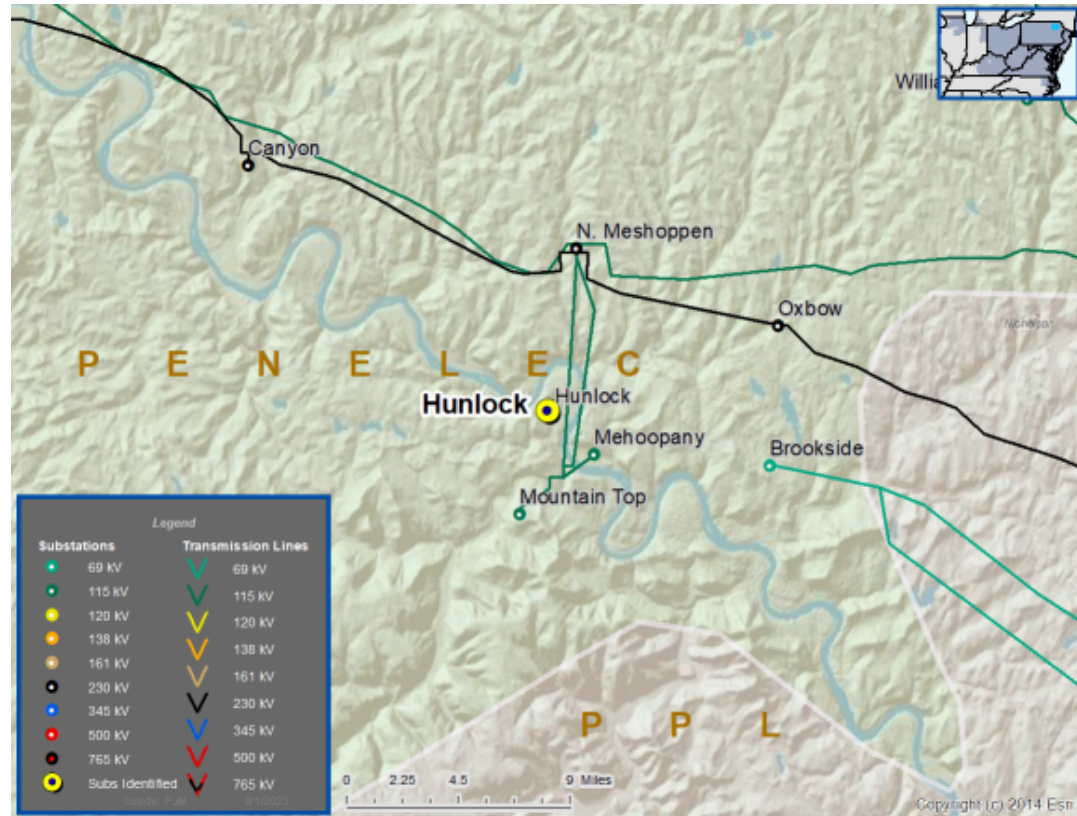
Need Presented: 09/14/2023

Solution Presented: 10/19/2023

Supplemental Project Driver: Equipment Material Condition, Performance and Risk;

Problem Statement:

The Hunlock-Glen Brook 69kV Line is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1929. The PPL section of this line is 4 miles long. The section to be rebuilt (3.5 miles) is the original 3/0 copper conductor and primarily wood poles with steel poles interspersed. In the section to be rebuilt, 90 of the 107 poles are wood with the remainder steel. There have been two outages on this section since 2015.



Cause	Momentary	Permanent	Total
Unknown	1	0	1
Vegetation	1	0	1
Grand Total	2	0	2

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

Need Number: PPL-2023-0010

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Rebuild the PPL section of the Hunlock-Glen Brook 69kV line (3.5 miles) to single circuit 69kV operation with 556 ACSR conductor. **Alternatives Considered:**

1. Removing the line was not feasible due to loss of operational flexibility for serving a UGI distribution substation

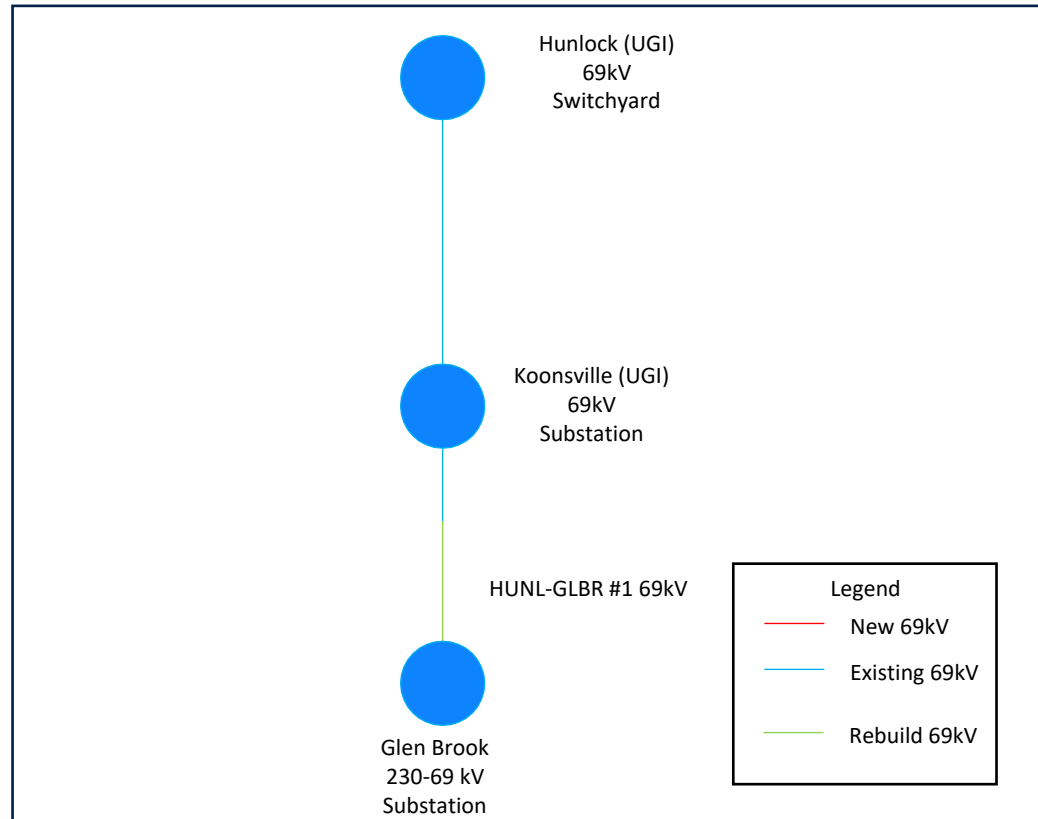
Estimated Project Cost: \$7M

Projected In-Service: 12/30/2028

Project Status: Conceptual

Model: 2028

Supplemental #: s3087.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

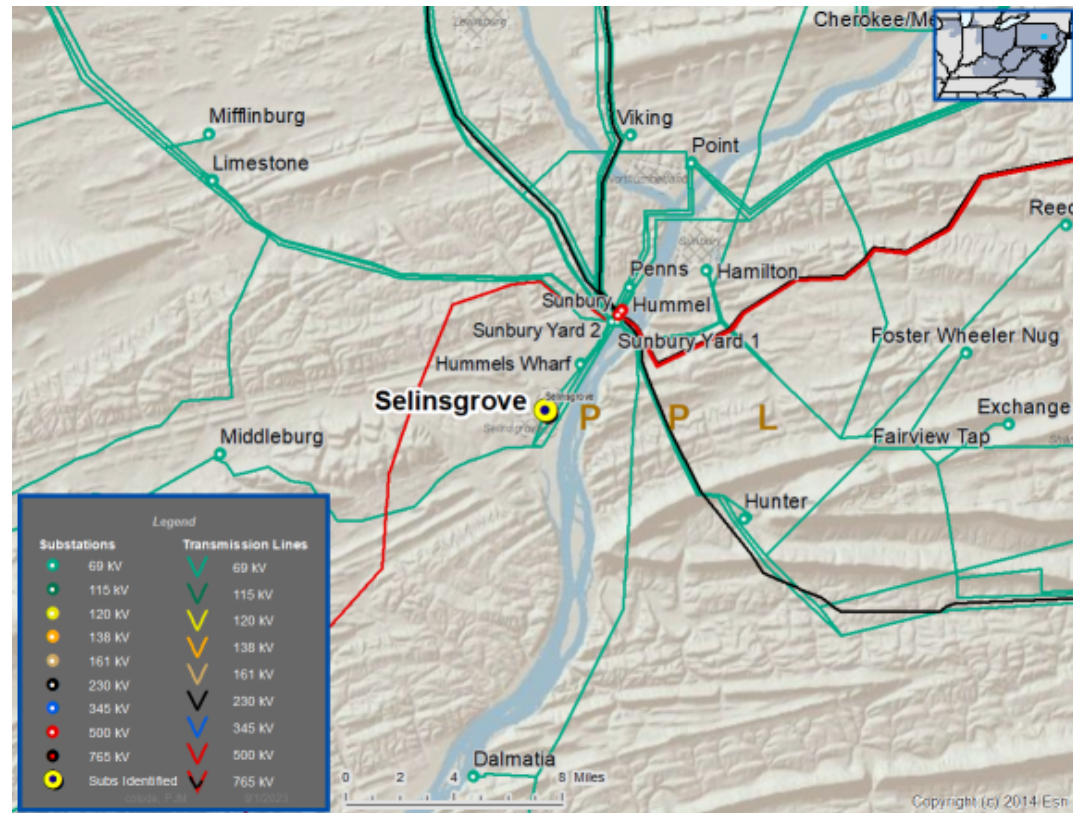
Need Presented: 09/14/2023

Solution Presented: 10/19/2023

Supplemental Project Driver: Equipment Material Condition, Performance and Risk;

Problem Statement:

The Selinsgrove 69kV tap is a reliability risk due to poor asset health. The line is in poor condition with the original assets installed in 1968. This is a 1.45 mile tap with the original 556 ACSR conductor and primarily wood poles with steel poles interspersed. On the tap, 30 of the 46 poles are wood with the remainder steel. There has been one outage on this section since 2015.



Cause	Momentary	Permanent	Total
Vegetation	0	1	1
Grand Total	0	1	1

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

Need Number: PPL-2023-0011

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Rebuild the Selinsgrove 69kV taps (1.45 miles) to double circuit 69kV operation with 556 ACSR conductor.

Alternatives Considered:

1. Removing the taps was not feasible due to a distribution substation being served by the lines.
2. Replacing the wood poles with steel poles was considered but clearance issues were discovered during project development.

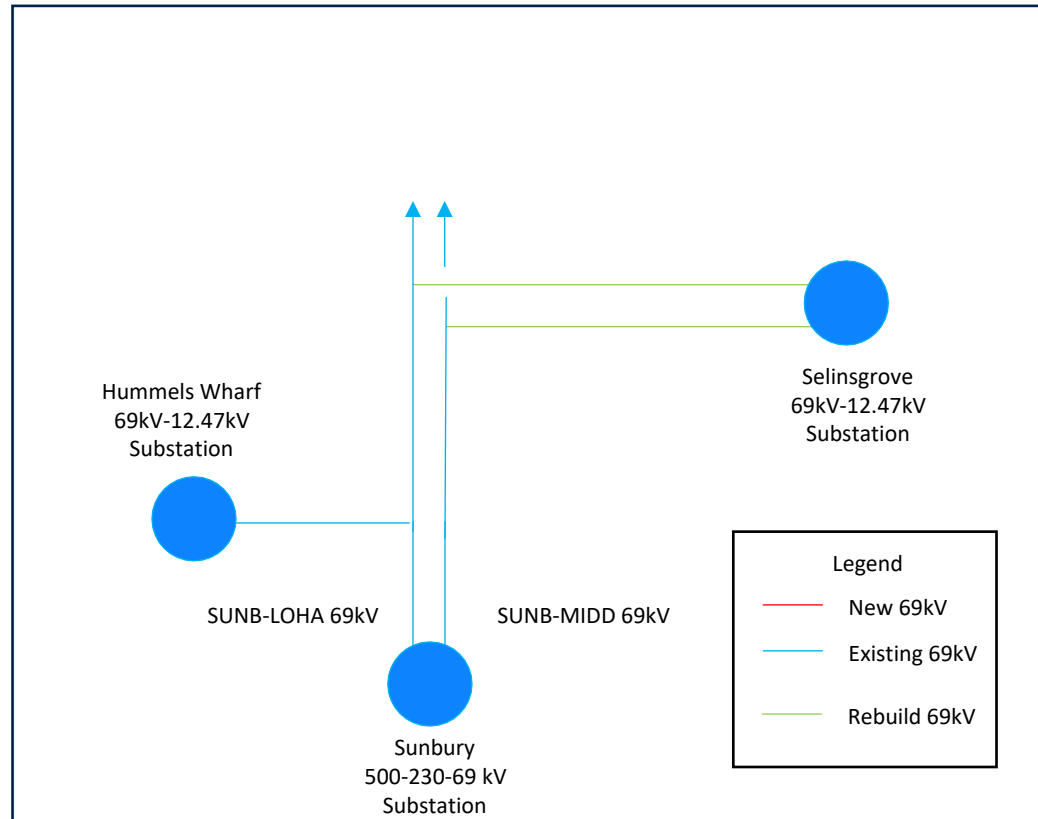
Estimated Project Cost: \$3M

Projected In-Service: 12/30/2026

Project Status: Conceptual

Model: 2027

Supplemental #: s3088.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

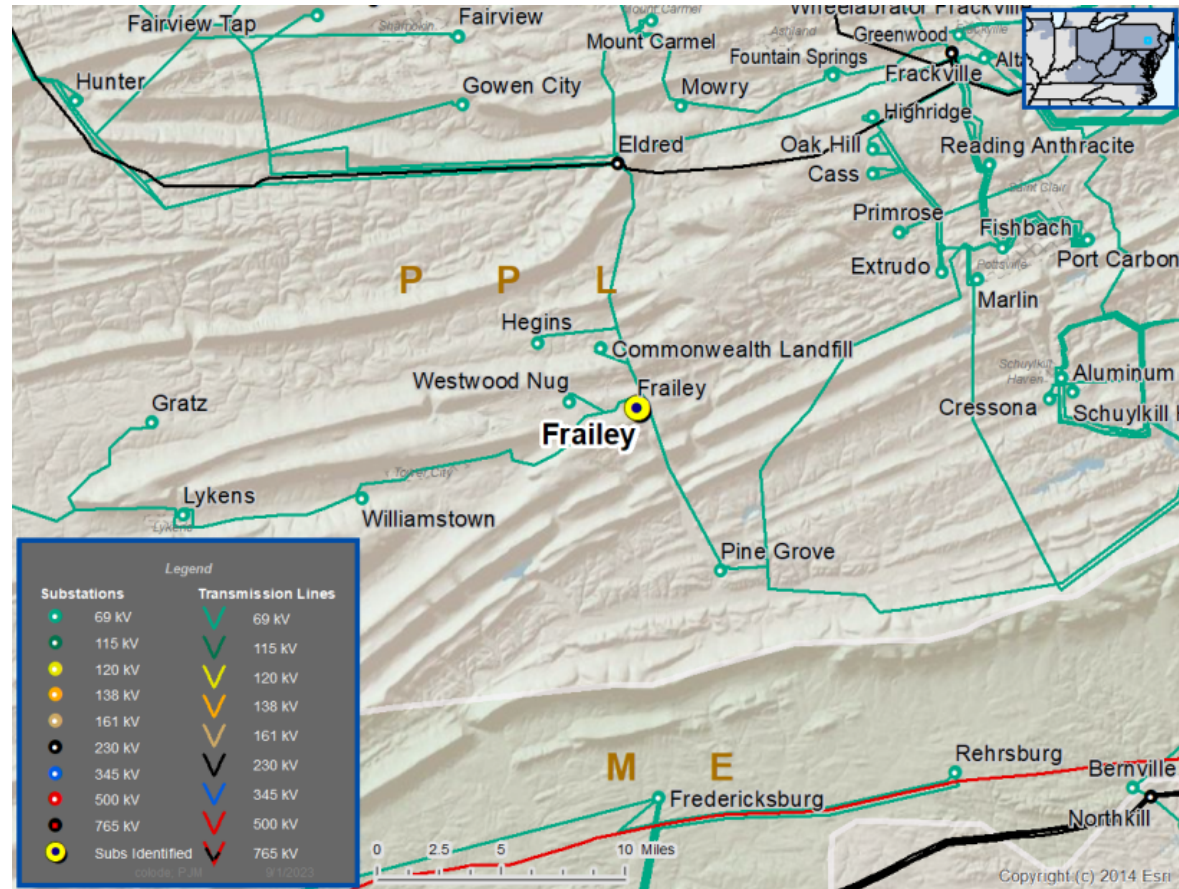
Need Presented: 09/14/2023

Solution Presented: 10/19/2023

Supplemental Project Driver: Customer Service

Problem Statement:

- A customer has submitted a request to have their facility served from a 69kV transmission line in Frailey, PA. The load is approximately 10 MVA.



Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

Need Number: PPL-2023-0012

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 2/27/2024

Proposed Solution:

Extend a single circuit 69kV tap to the new customer substation from the Eldred – Pine Grove 69kV line (0.15 Miles)

Alternatives Considered:

1. No alternatives were considered as the Eldred – Pine Grove 69kV line is the only transmission line in the vicinity.

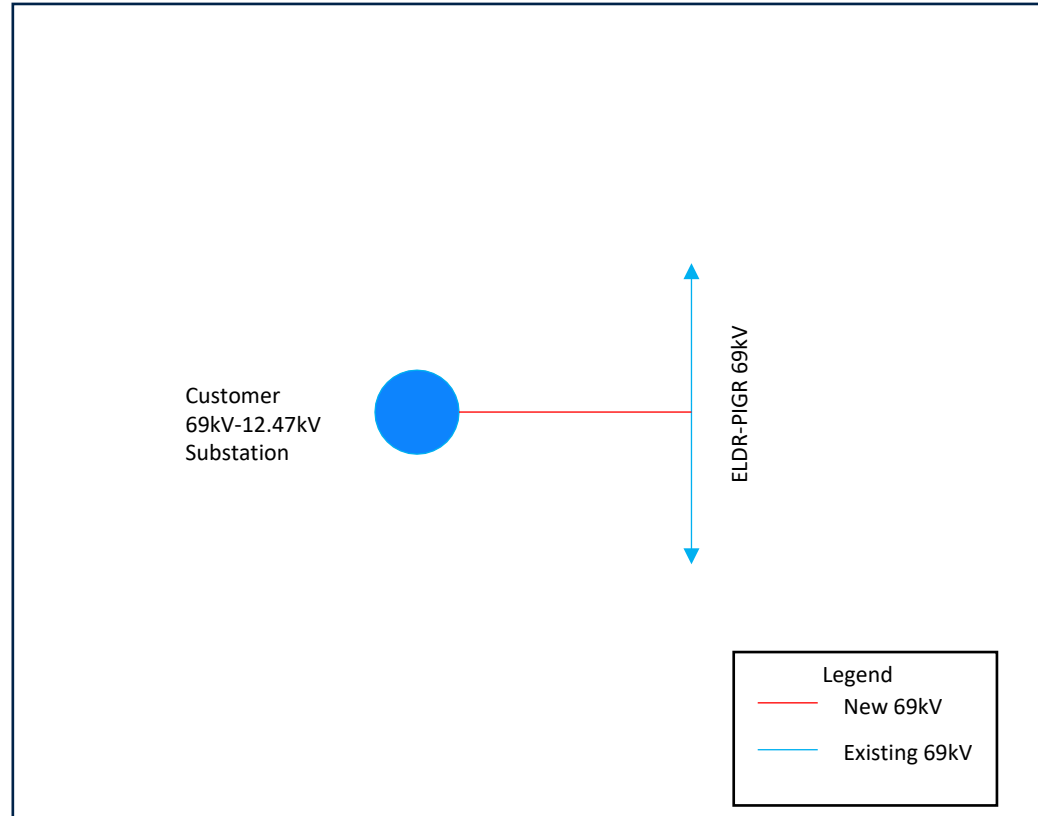
Estimated Project Cost: \$1.0M

Projected In-Service: 11/30/2025

Project Status: Conceptual

Model: 2026

Supplemental #: s3089.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0014

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/19/2024

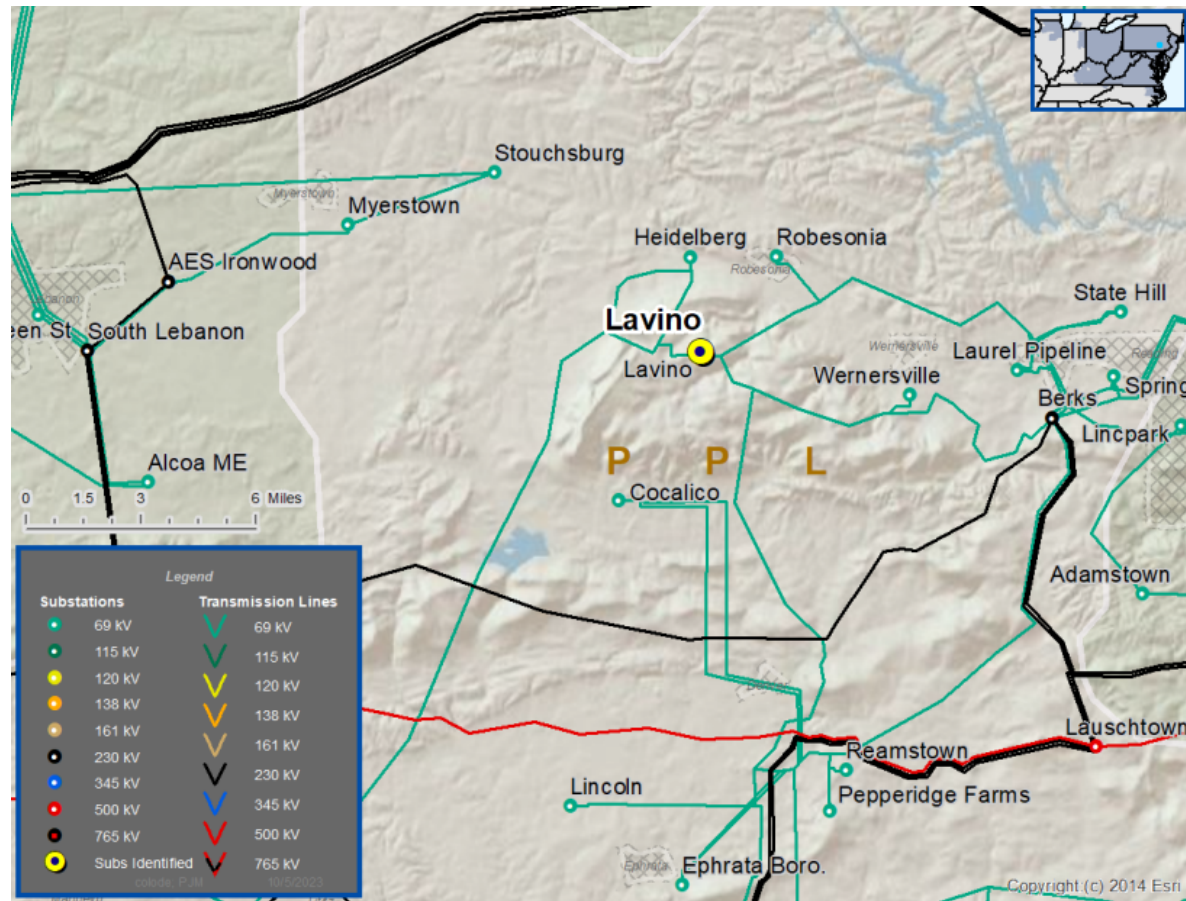
Need Presented: 10/19/2023

Solution Presented: 1/18/2024

Supplemental Project Driver: Customer Service

Problem Statement:

PPL Distribution has submitted a request for a second 69kV feed at Lavino Substation to support replacement of existing transformers and rebuilding of the substation.



Specific Assumption References:

[PPL 2023 Annual Assumptions](#)

Need Number: PPL-2023-0014

Proposed Solution:

Extend a second circuit to Lavino substation from the Berks – Lavino #2 69kV line (0.05 Miles)

Alternatives Considered:

- 1. No feasible Alternatives

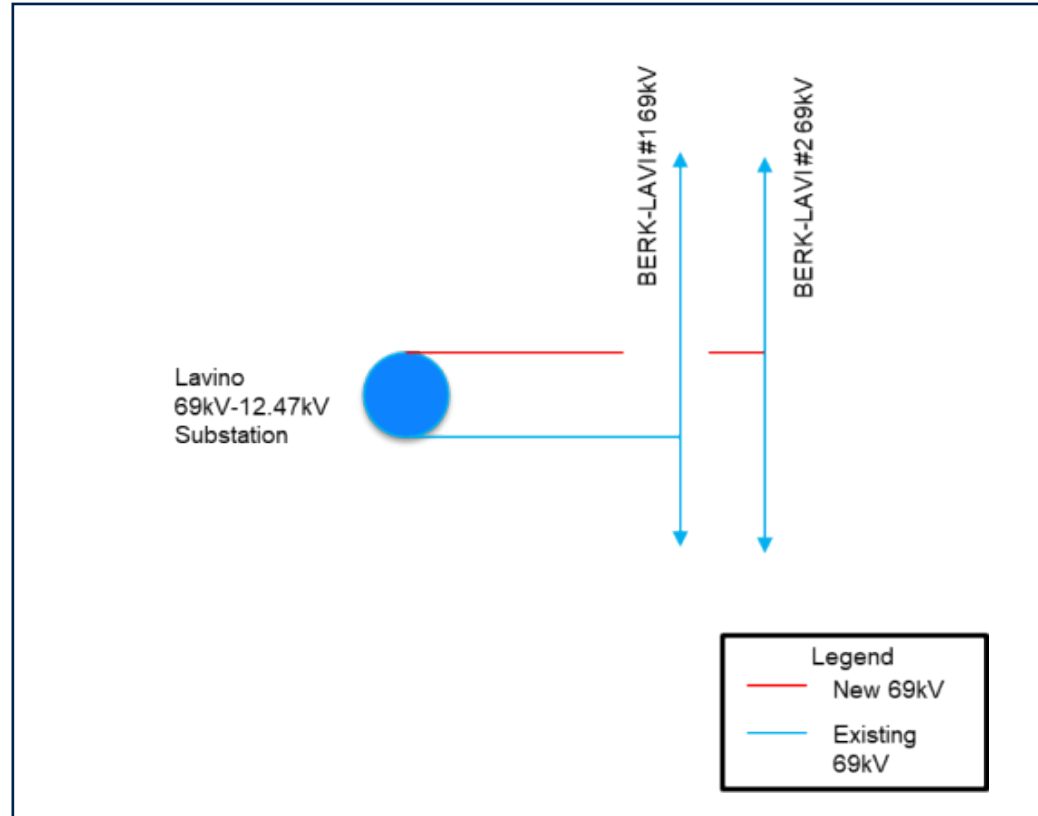
Estimated Project Cost: \$0.9M

Projected In-Service: 11/30/2025

Project Status: Conceptual

Model: 2026

Supplemental #: S3210.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0005

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 3/25/2024

Need Slide Presented: 03/16/2023

Solution Presented: 07/20/2023

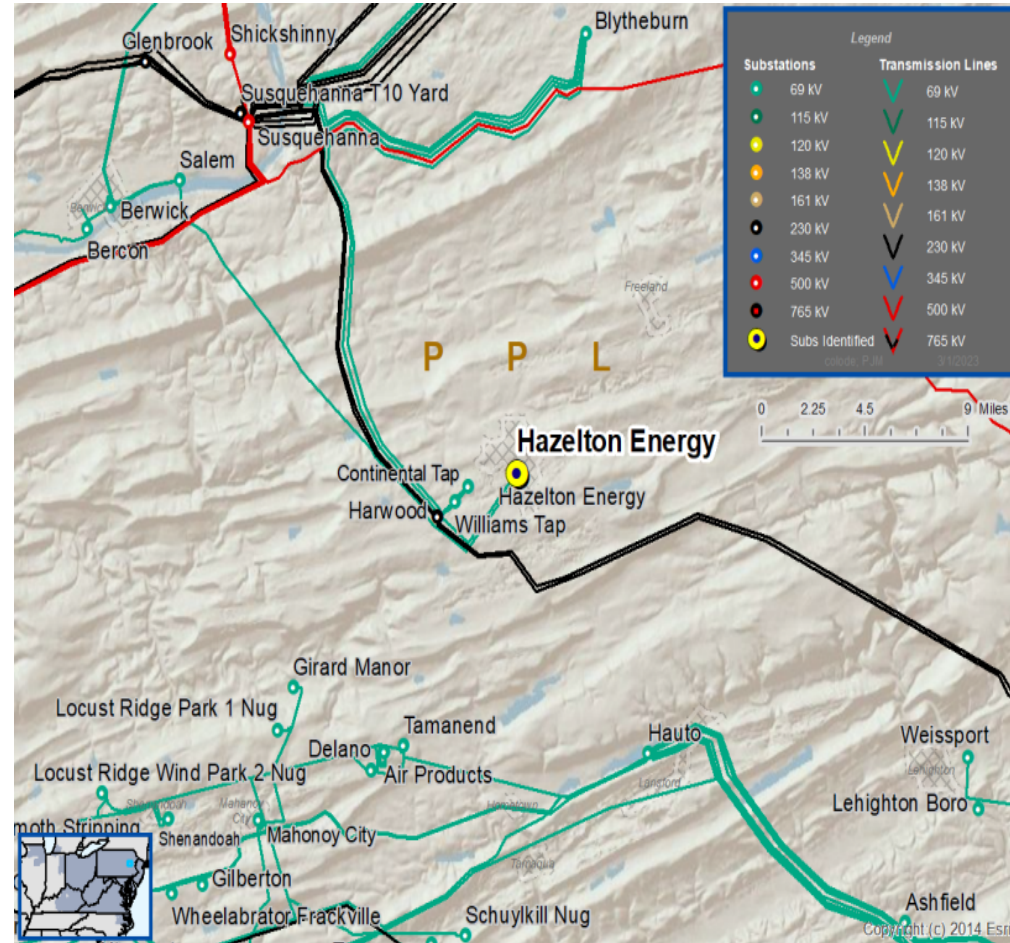
Supplemental Project Driver: Customer Service

Problem Statement:

- PPL Distribution has submitted a request for double circuit 69kV service for a new 69-12kV substation near Hazelton, PA. There have been multiple requests for distribution service from new customers with a total expected load addition of **40-45 MWs**. The distribution system in the area does not have sufficient capacity to serve the load.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0005

Proposed Solution:

- Extend a new double circuit 69kV tap from the existing Harwood – East Hazelton 1 & 2 69kV lines line to interconnect a PPL Distribution owned 69-12.47kV substation (McAdoo). s3082.1
- Add a second circuit from Harwood substation to Cando tap (1.3 miles), reconfigure existing circuits from Cando and Harleigh, and install 3.6 miles of new double circuit 69kV from Harleigh to East Hazelton. s3082.2

Alternatives Considered:

Installing a new 230/69kV substation close to McAdoo but would cost greater than \$40 million.

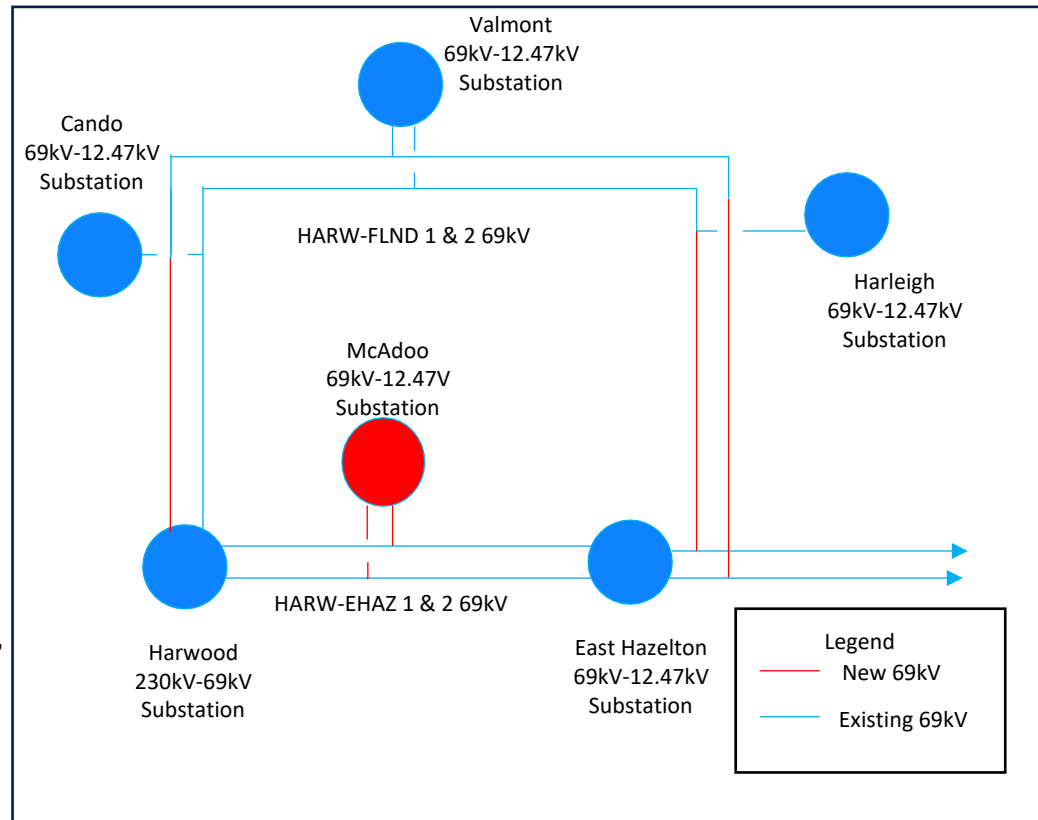
Estimated Project Cost: \$15M

Projected In-Service: McAdoo sub (s3082.1) 6/12025, New circuit (s3082.2) 12/1/2027

Project Status: Conceptual

Model: 2027

Supplemental #: s3082.1 & s3082.2



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0013

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 7/29/2024

Need Slide Presented: 10/19/2023

Solution Slide Presented : 12/13/2023

Supplemental Project Driver: Equipment Material Condition, Performance, and Risk.

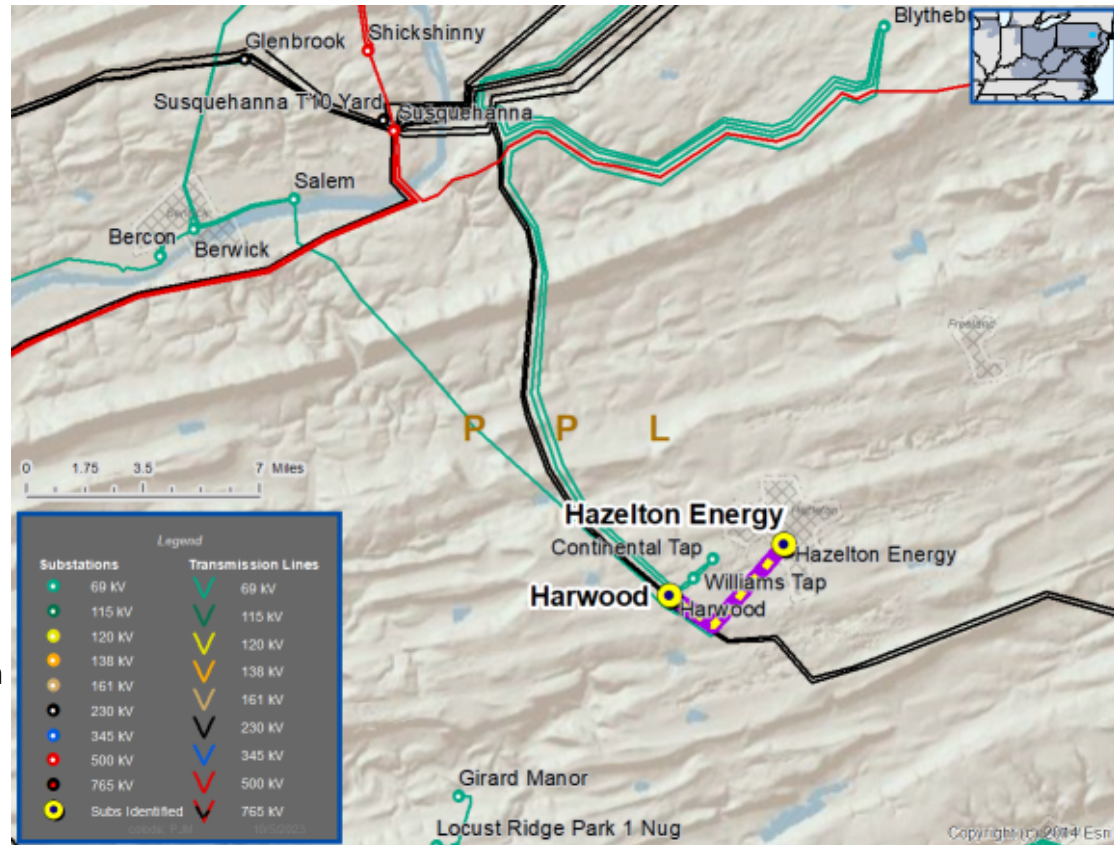
Operation Flexibility

Problem Statement:

- In a 2.6 mile stretch of the Harwood – East Hazleton 69 kV line, 20 of the 32 structures are weathering steel Corten lattice towers that were installed in 1970.
- A third-party inspection and analysis was conducted on a statistically significant sample of 192 out of the 1284 Corten structures on the PPL system. All the towers inspected exhibited section loss on numerous members and over 90% of the joints had visible pack-out.
- The report rated all the Corten towers inspected in poor or worse condition and concluded that the towers require near-term mitigation.
- Due to load growth in the area this section of line becomes the limiting factor for making transfers.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0013

Proposed Solution:

- Rebuild 2.6 miles of the existing Harwood – East Hazelton 1 & 2 69kV lines from Harwood Substation to the MCCI tap with 795 ACSR conductor.

Alternatives Considered:

No feasible alternatives. Line cannot be retired as it serves customer and distribution load.

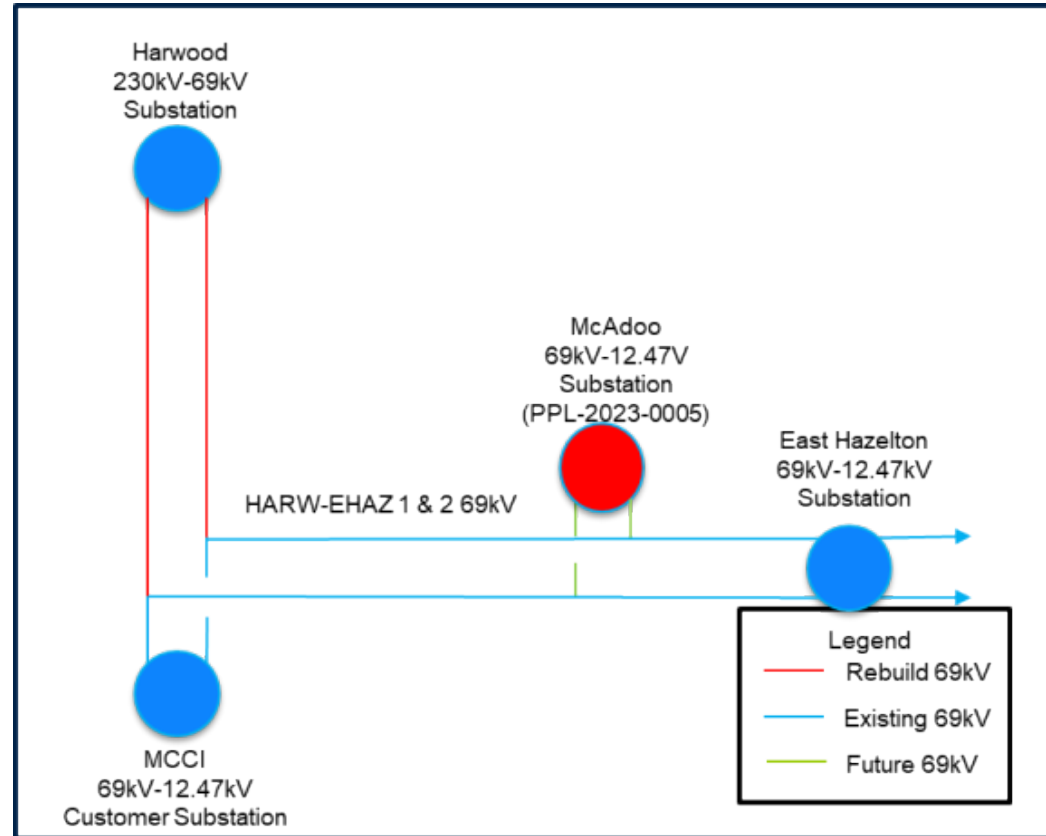
Estimated Project Cost: \$6M

Projected In-Service: 12/1/2026

Project Status: Conceptual

Model: 2027

Supplemental #: S3349.1



PPL Transmission Zone: Supplemental

Need Number: PPL-2023-0015

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 7/29/2024

Need Slide Presented: 11/16/2023

Solution Slide Presented: 12/13/2023

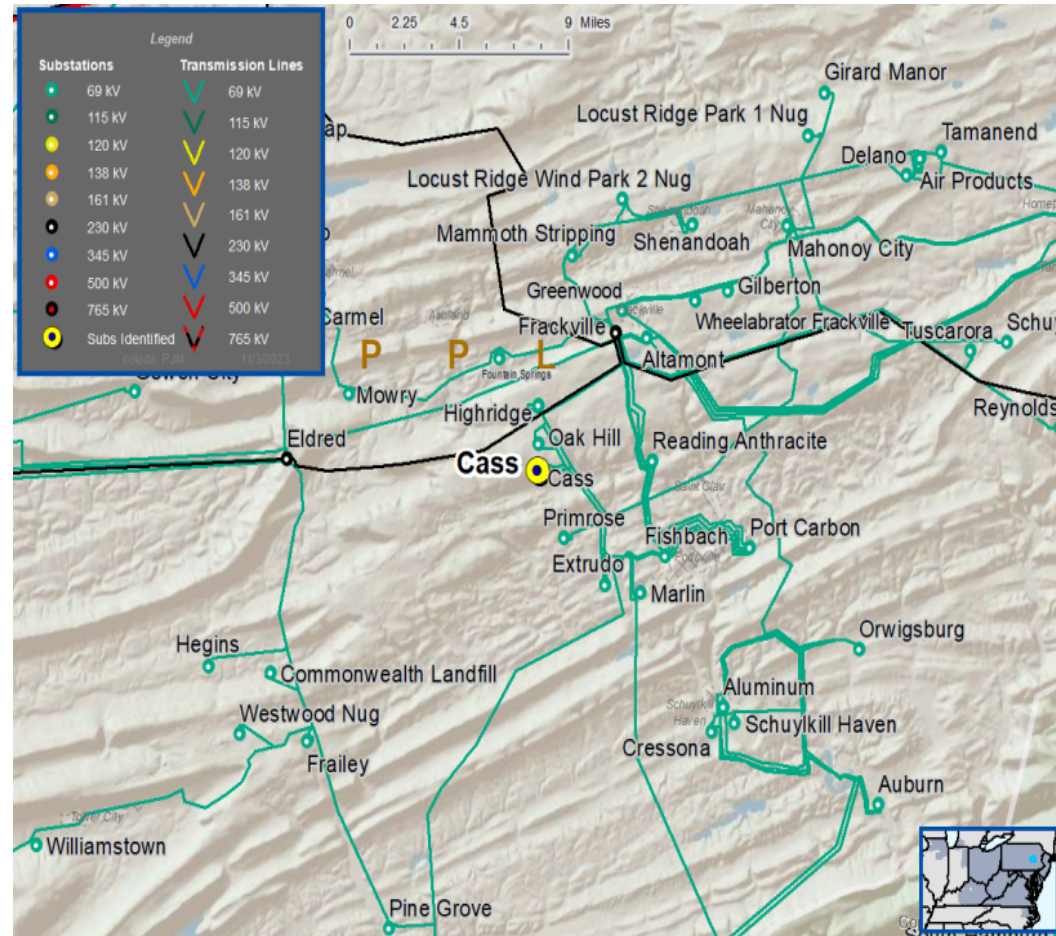
Supplemental Project Driver: Customer Service

Problem Statement:

PPL Distribution has submitted a request for modification of the 69kV feeds at Cass Substation to support replacement of existing transformers and rebuilding of the substation.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need Number: PPL-2023-0015

Proposed Solution:

Rebuild the 0.1-mile Cass tap from the FRAC-AUBU 69kV line. Remove 69kV tap from FRAC-FISH #3.

Alternatives Considered:

No feasible alternatives

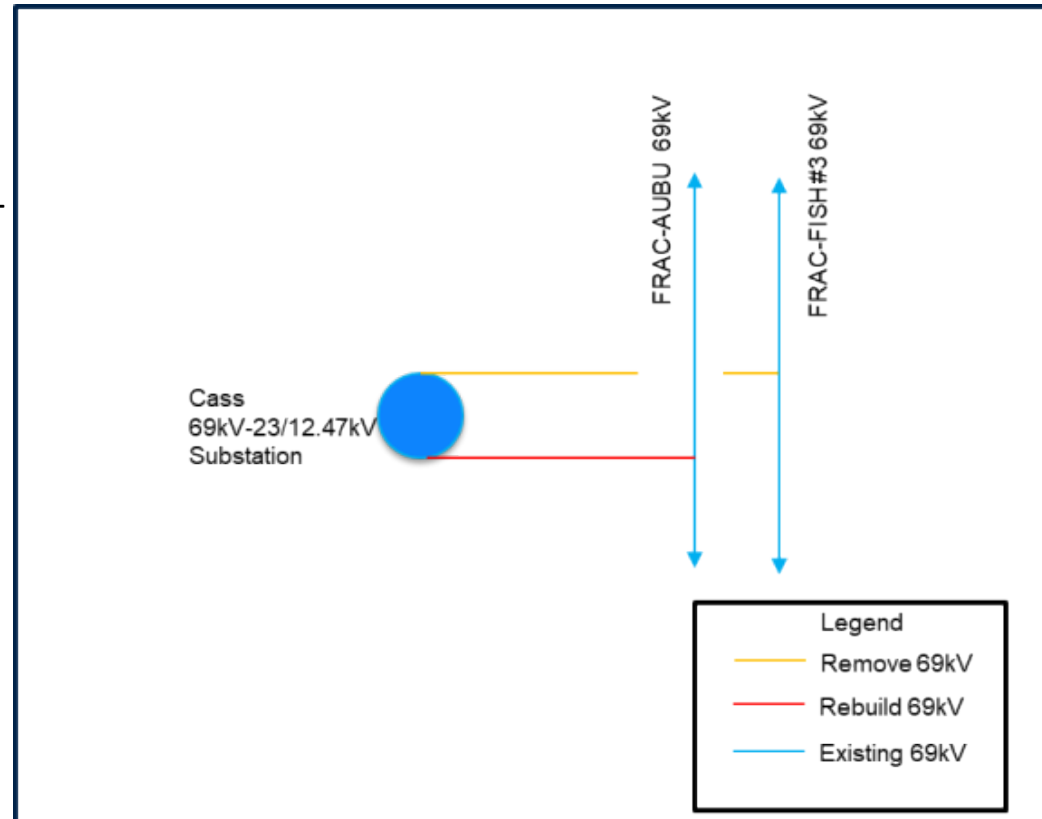
Estimated Project Cost: \$0.9M

Projected In-Service: 5/31/2026

Project Status: Conceptual

Model: 2026

Supplemental #: S3350.1



Need Number: PPL-2024-0002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/05/2024

Previously Presented: Need Meeting SRRTEP-MA - 05/16/2024

Project Driver: Customer Service

Specific Assumption References:

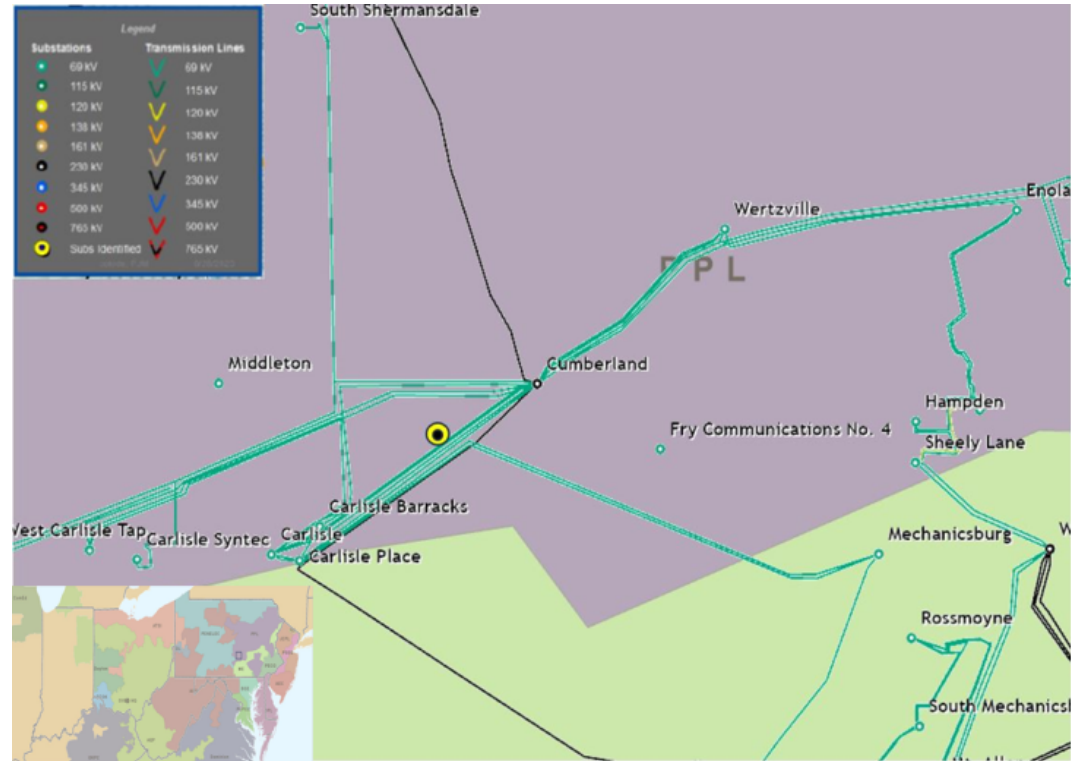
PPL 2024 Annual Assumptions

Problem Statement:

PPL Distribution has submitted a request for double circuit 69kV service for a new 69-12kV substation near Carlisle, PA. There have been multiple requests for distribution service from new customers with a total expected load addition of 13-18 MWs. The distribution system in the area does not have sufficient capacity to serve the load. The requested in-service date is 6/1/2026.

Specific Assumption References:

[PPL 2023 Annual Assumptions](#)



Need number(s): PPL-2024-0002

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 09/05/2024

Proposed Solution:

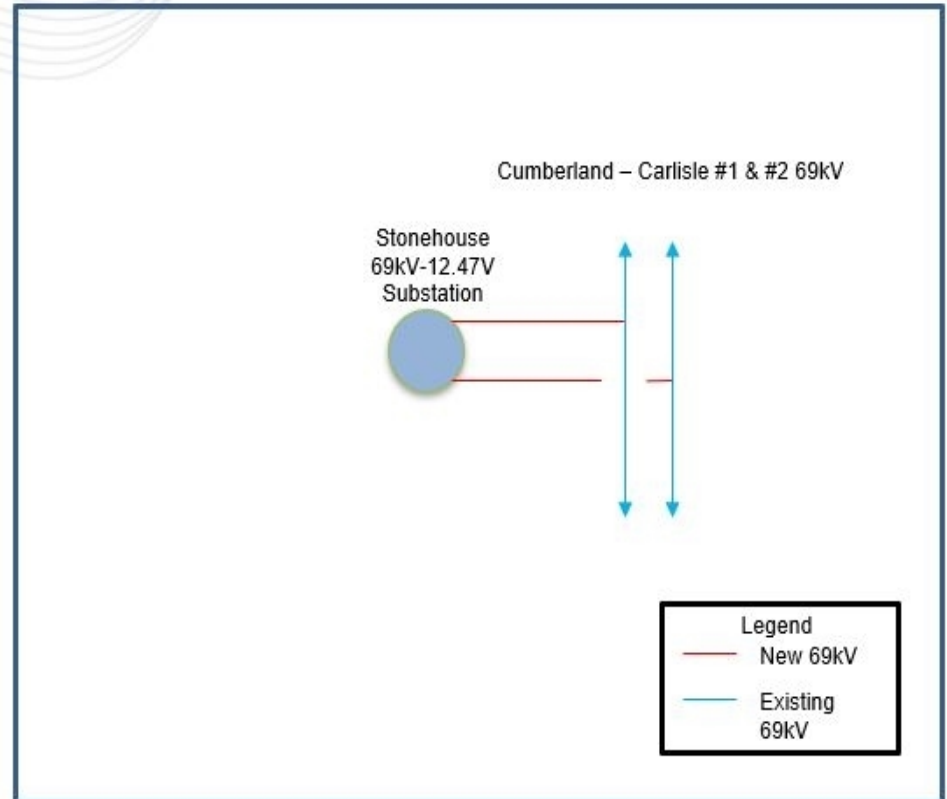
Stonehouse 69kV taps: Extend a new double circuit 69kV tap from the existing Cumberland - Carlisle #1 & #2 69kV lines to interconnect the new Stonehouse 69-12.47kV substation. Build 0.1 miles of new 69kV double circuit line using 556 ACSR conductor. Initial loading of ~18MVA. (s3391.1)

Transmission Cost Estimate: \$1.4 M

Alternatives Considered: No feasible alternatives

Projected In-Service: 06/01/2026

Project Status: Conceptual





PPL Transmission Zone: Supplemental

Need Number: PPL-2024-0001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 5/29/2024

Need Presented: 02/06/2024

Solution Presented : 04/02/2024

Supplemental Project Driver: Customer Service

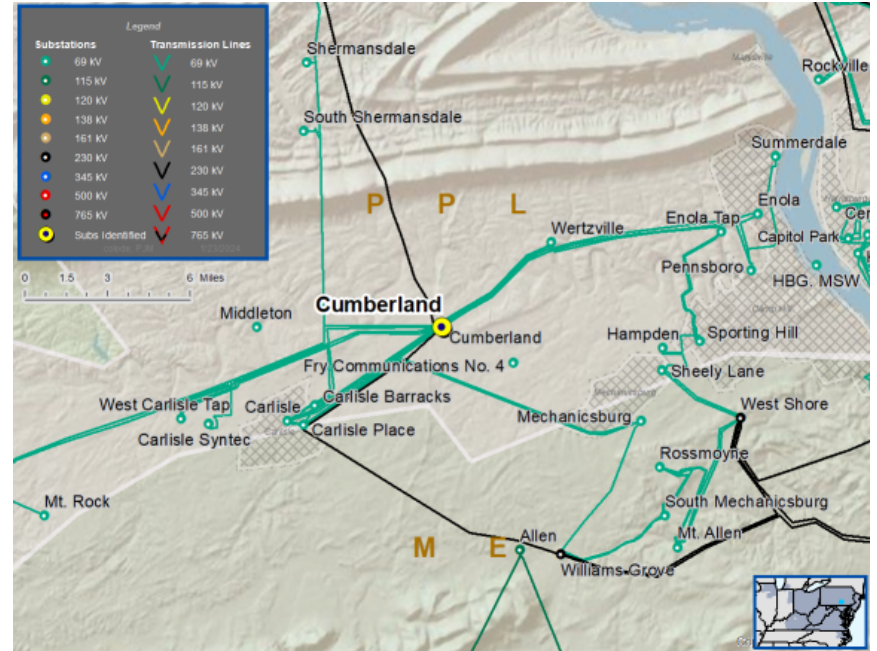
Problem Statement:

- A customer has submitted a request to have their facility served from a 138kV source in New Kingston, PA. The total facility load is approximately 1,275 MW (2032). The requested in service date is 03/2026.

Initial In-Service Load	Projected 2028 Load	Projected 2030 Load
Summer 2026: 40MW Winter 2026-27: 108 MW	Summer: 405 MW Winter: 540 MW	Summer: 1,000 MW Winter: 1,040 MW

Specific Assumption References:

[PPL 2024 Annual Assumptions](#)





Need Number: PPL-2024-0001

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 5/29/2024

Proposed Solution:

- Break the existing Juniata (JUNI)-Three Mile Island (TMIS) 500kV line and extend the lines 0.1 miles into a new four bay Bernheisel (BERN) 500kV breaker-and-a-half yard.
- Rebuild the existing JUNI-TMIS 500kV line to double circuit for 13.3 miles from Juniata substation to Bernheisel substation.
 - PPL's standard is to have three sources into a BES substation.
- Install four 500-138kV transformers.
- Install a six bay 138kV yard.
- Install two 138kV capacitor banks.
- Extend six 138kV lines to customer facility

Alternatives Considered:

1. 230kV Option: Install a four bay 230kV BAAH yard (BERN) with four 230-138kV XFMRs, 230kv cap bank, six bay 138kV BAAH yard, and two 138kV capacitors. Rebuild the JUNI-BERN, BERN-CUMB, and CUMB-WIGR 230kV lines to double circuit. Install new terminals at JUNI, CUMB, and WIGR 230kV yards. Rebuild WIGR-WSHO/WIGR-BRIS and JUNI-DAUP/LEWI-JUNI 230kV double circuit lines. Rebuild the single circuit HUMM-STEE 230kV line. Replace both Juniata 500-230kV XFMRs with larger units. Estimated cost: \$293M.
2. 500kV & 230kV Option: Install five bay 230kV BAAH yard (BERN) with four 230-138kV XFMRs, 230kv cap bank, six bay 138kV BAAH yard, and two 138kV capacitors. Install a three bay 500kV BAAH yard with two 500-230kV XFMRs. Rebuild the JUNI-BERN 230kV line to double circuit and install new terminal at JUNI 230kV yard. Re-terminate the JUNI-KEYS and JUNI-SUNB lines at JUNI and install a third 500-230kV transformer at JUNI. Estimated cost: \$260M.

Estimated Project Cost: \$244M

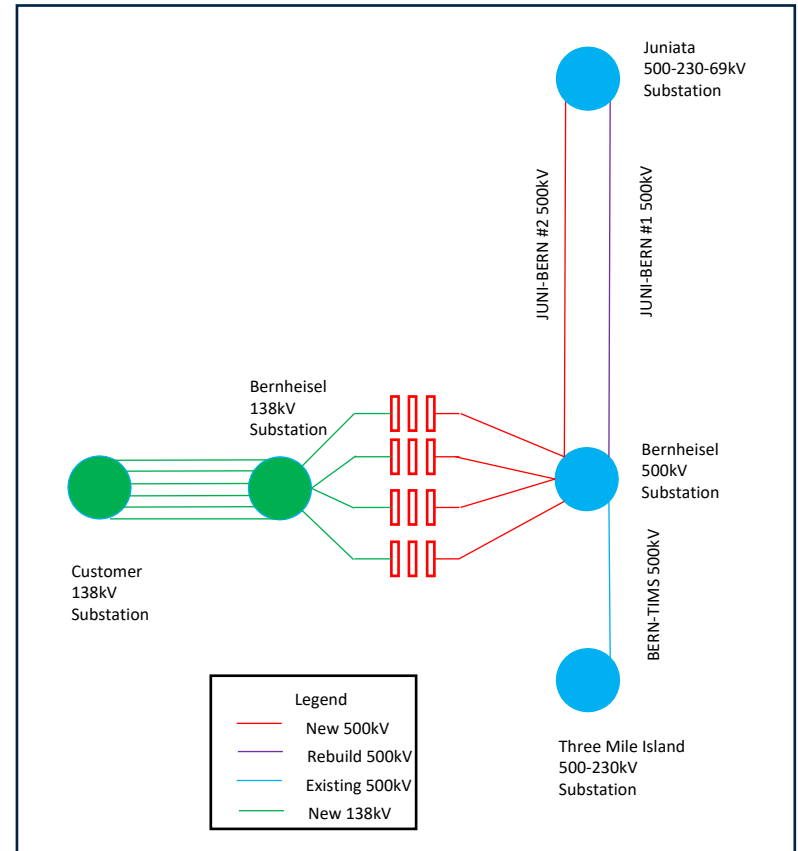
Projected In-Service: s3311.1, s3311.3, s3311.4, s3311.5, s3311.6. RIS6/30/2026. s3311.2 RIS 6/1/2027

Project Status: Conceptual

Model: 2028

Supplemental #: s3311.1, s3311.2, s3311.3, s3311.4, s3311.5, s3311.6.

PPL Transmission Zone: Supplemental





PPL Transmission Zone: Supplemental

Need Number: PPL-2024-0003

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan 10/15/2024

Need Slide Presented: 06/04/2024

Solution Slide Presented: 8/6/2024

Supplemental Project Driver: Customer Service

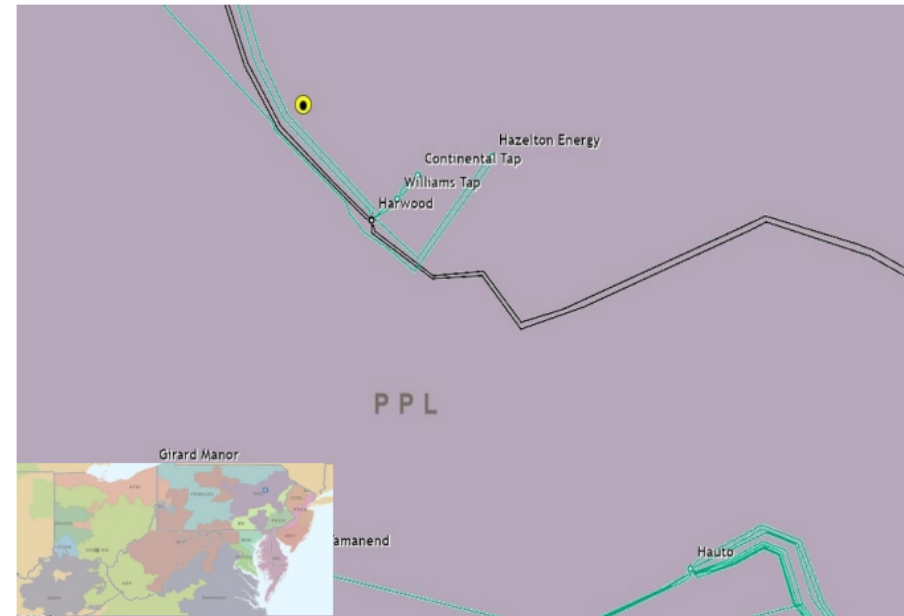
Problem Statement:

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



Specific Assumption References:

[PPL 2024 Annual Assumptions](#)

Need Number: PPL-2024-0003

Proposed Solution:

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

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

Susquehanna 230kV Switchyard: Install a new line terminal at Susquehanna 230kV yard by installing new dead-end, 230kV breaker, and associated equipment.. Estimated Cost: \$2 M

Susquehanna T10 230kV Switchyard: Install a new BAAH bay at the Susquehanna T10 230kV yard. Install two dead-ends, three 230kV breakers and associated equipment.. Estimated Cost: \$6 M

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

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

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

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

Glen Brook - Susquehanna 230kV Line: Bifurcate the Glen Brook – Susquehanna 230kV line into the Susquehanna T10 yard. Extend lines approximately 0.25 into the existing Susquehanna T10 230kV switchyard.. Estimated Cost: \$3 M

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

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

Transmission Cost Estimate: \$196.55 M

Alternatives Considered:

1. Rebuild the Susquehanna – Harwood #1 & #2, install a third line 230kV circuit from SUSQ-HARW, and break GLBR-SUSQ into SU10. 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.

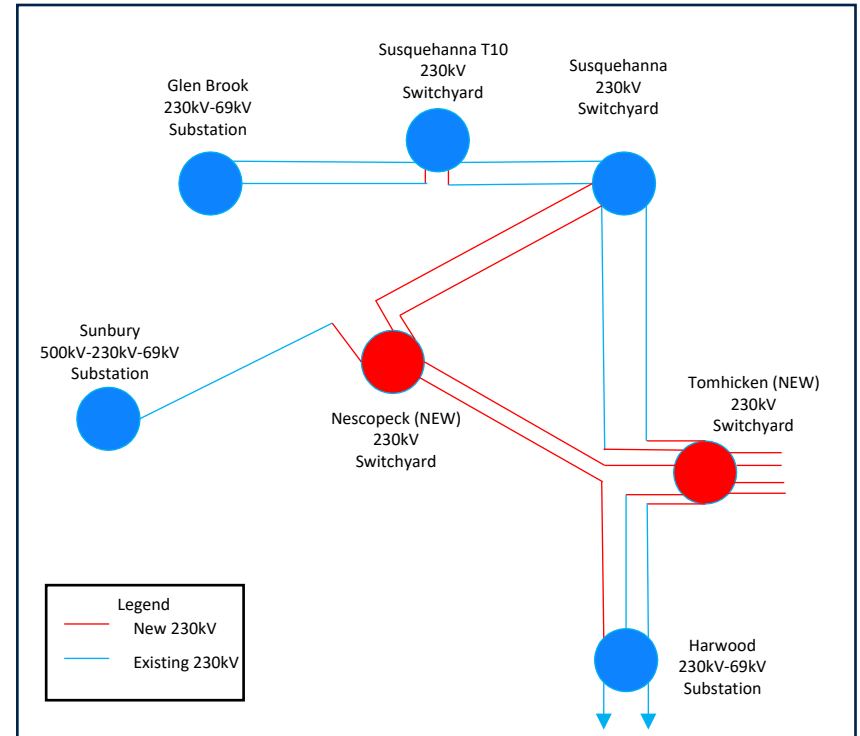
Projected In-Service: 6/1/2026: S3528.1, S3528.6, & S3528.11

6/1/2027: S3528.2, S3528.3, S3528.4, S3528.5, S3528.7, S3528.8, S3528.9, S3528.10

Project Status: Conceptual

Model: 2028

Supplemental #: S3528.1-11



Revision History

2/27/2024 – V1 – Local Plan for s3082.1 through s3089.1

3/19/2024 – V2 – Added s3210.1

3/25/2024 – V3 – Added s3080.2

7/29/2024 – V4 – Added s3349.1 and s3350.1

9/5/2024 – V5 – Added s3391.1

9/27/2024 – V6 – Added s3311.1-.6

10/15/2024 – V7 – Added s3528.1-.11