

Subregional RTEP Committee - Western Dayton Supplemental Projects

Feb 13th, 2026

Cancellation of Existing Supplemental Projects

Need Number: Dayton-2022-003

Process Stage: Cancellation Meeting 2/13/2026

Previously Presented: Solution Meeting 7/22/2022

Project Driver: Customer Service

Specific Assumption Reference: Dayton Local Plan Assumptions

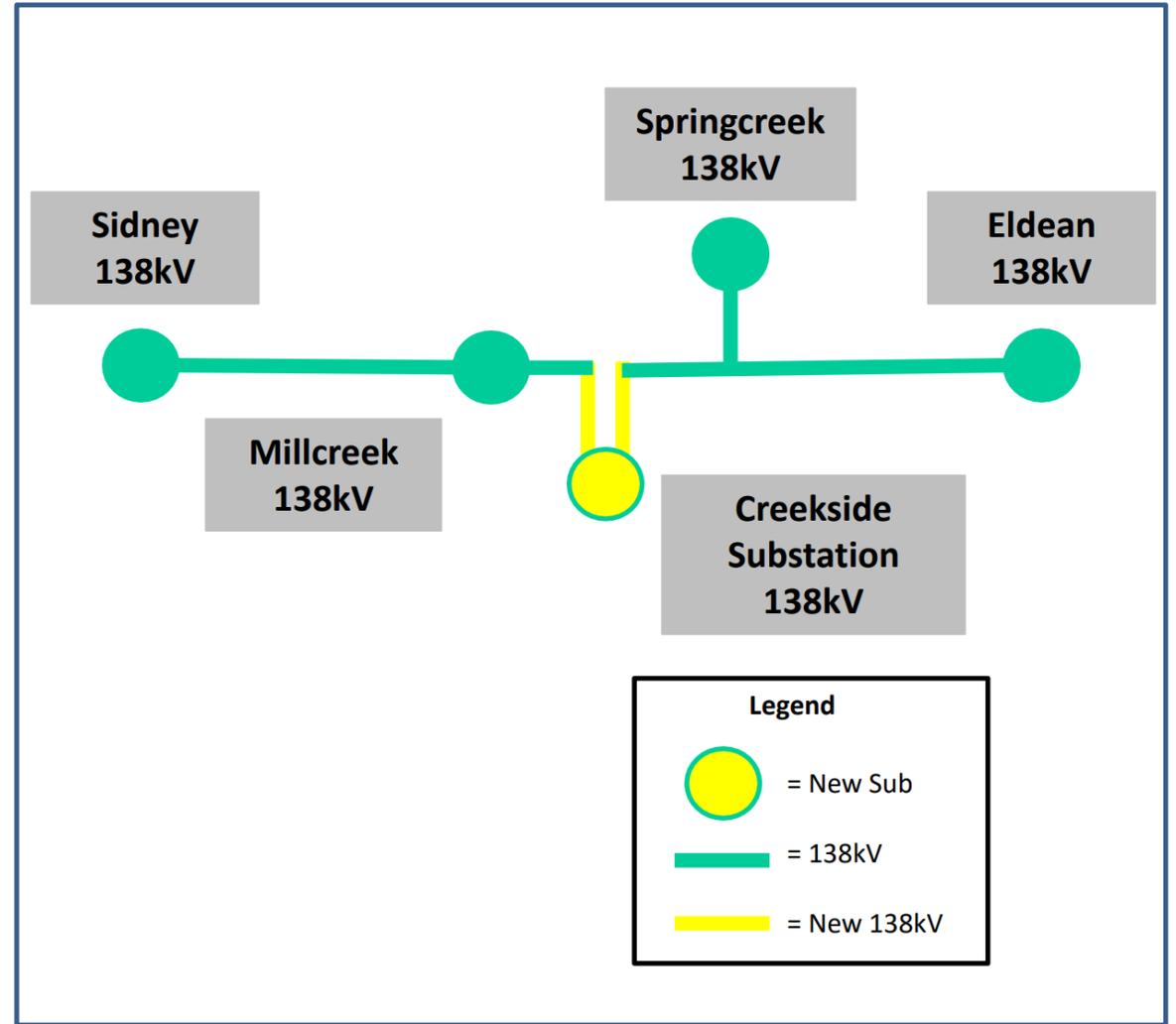
Proposed Solution:

Dayton has developed a comprehensive distribution and transmission solution to meet the needs identified in the problem statement. The proposed customer load center is less than a mile from the existing 138kV substation at Millcreek. With this solution, a double circuit 138kV line will tap the Millcreek to Eldean line and loop in and out to the new Creekside sub. Three 138/12kV transformers will be installed in the additional breaker positions to provide express service to the customer.

Total Estimated Transmission Cost: \$13.5M

Project In-Service Date: 06/1/2024

The Reason for Cancellation: The project is no longer required and has been cancelled due to the customer moving from transmission-level service to distribution service.



Needs

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Need Number: Dayton-2026-002

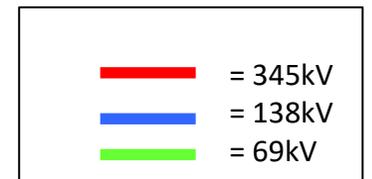
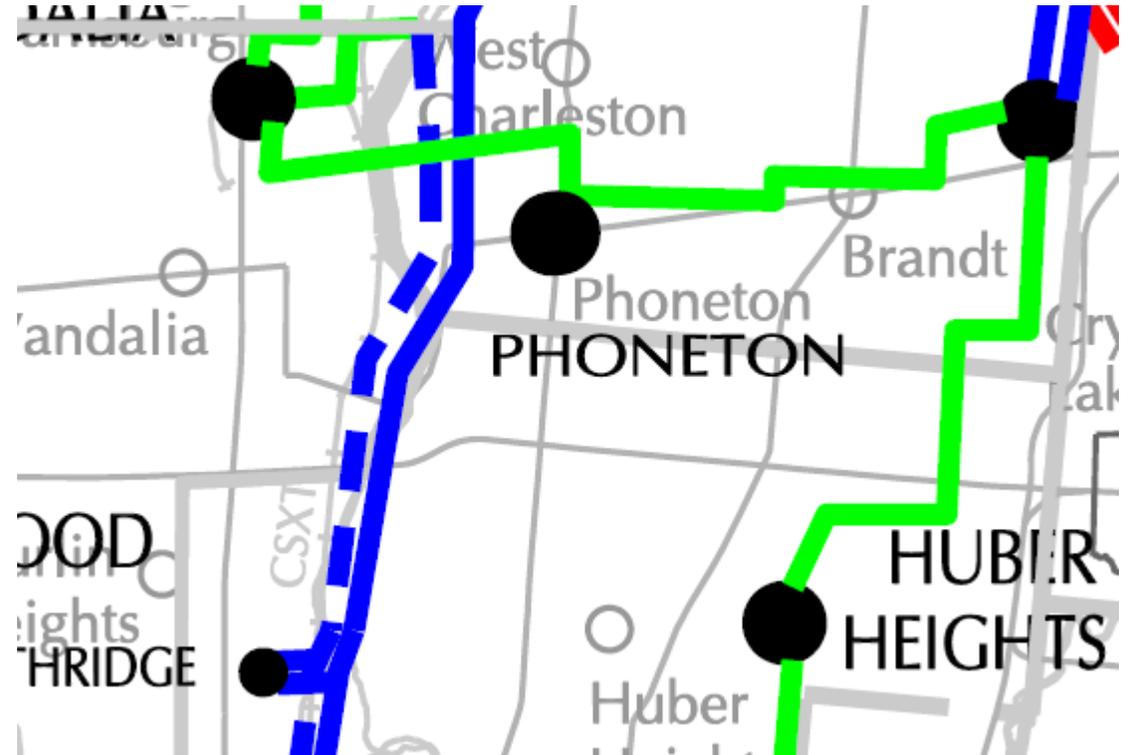
Process Stage: Need Meeting 2/13/2026

Project Driver: Source for underlying distribution

Specific Assumption Reference: Dayton Local Plan Assumptions

Problem Statement:

AES Ohio Distribution has requested a new delivery point in the area to increase system capacity and offload load from the Huber Heights and Phoneton Substations.



Solutions

Stakeholders must submit any comments within 10 days of this meeting in order to provide time necessary to consider these comments prior to the next phase of the M-3 process

Need Number: Dayton-2021-003

Process Stage: Solution Meeting, 2/13/2026

Previously Presented: Need Meeting, 4/16/2021

Project Driver:

Operational performance

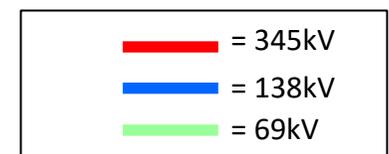
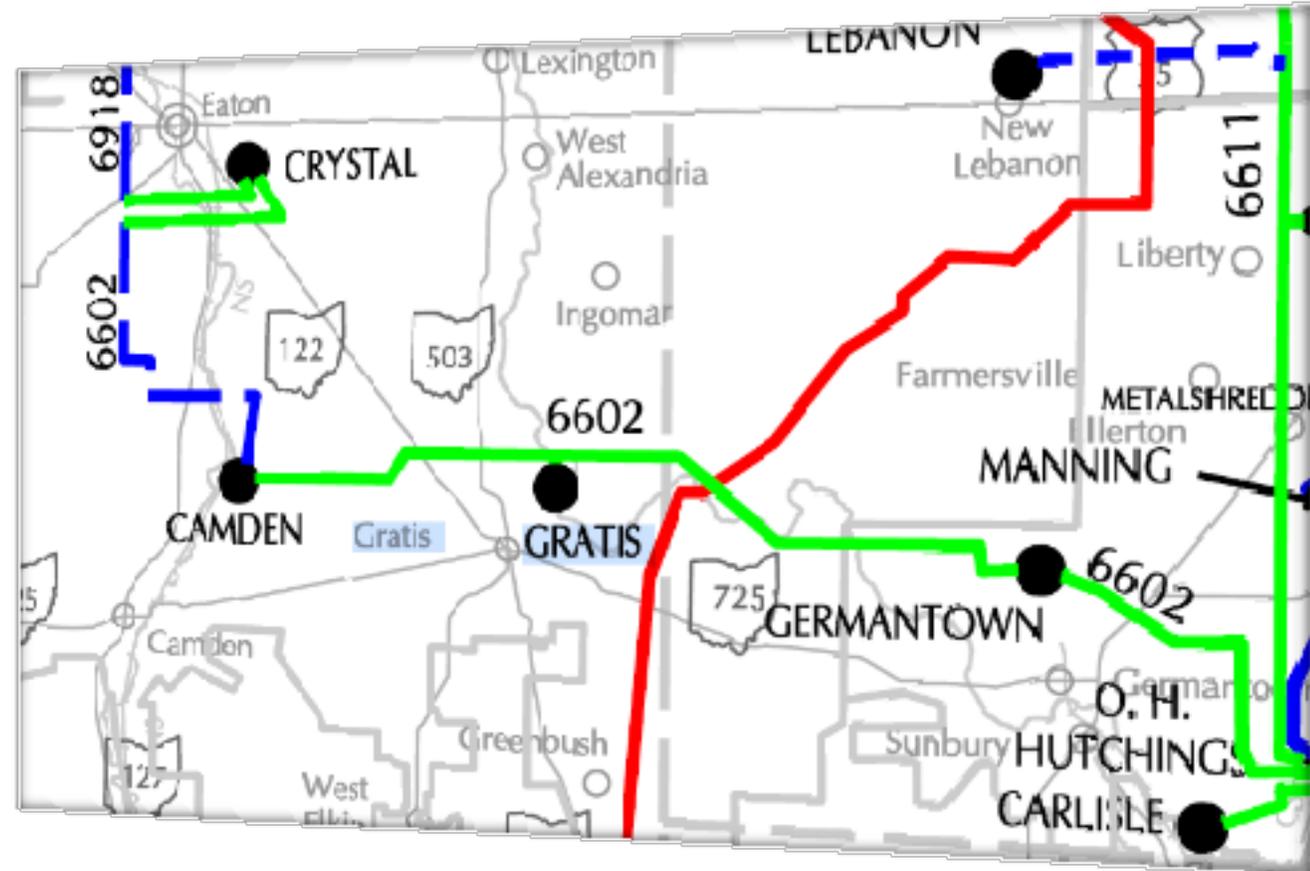
Specific Assumption Reference:

Dayton Local Plan Assumptions (Slide 5)

Problem Statement:

- The existing 30.88-mile 69kV transmission line (6602) from Hutchings-Germantown-Gratis-Camden-Crystal was primarily constructed using wood pole, cross-arm and brace design in 1964.
- This line provides transmission and distribution level service to 5 different substations serving approximately 11,500 customers in Montgomery and Preble Counties totaling approximately 33MW of load.
 - A fault occurring anywhere on this line will result in at least a temporary outage and possible permanent outage to all 11,500 customers.
- This line is one of the worst performing 69kV transmission lines in the Dayton zone.
 - The line has experienced 25 outages (3 permanent and 22 momentary) since 2016.
 - Equipment related issues are the primary cause of permanent outages on the line and weather has been the primary cause of momentary issues.

- There are two existing automatic sectionalizing switches at Germantown to help reduce outage time, but the switches have not operated reliably during outage conditions due to alignment issues and the switches are not centrally located on the circuit.



Need Number: Dayton-2021-003

Process Stage: Solution Meeting, 2/13/2026

Previously Presented: Need Meeting, 4/16/2021

Project Driver: Operational Performance

Specific Assumption Reference: Dayton Local Plan Assumptions

Proposed Solution:

Germantown 69 kV Substation Expansion:

- AES will install one new 69kV circuit breaker to establish a bus-tie breaker. **Estimated Cost:** \$1.3M

Gratis 69 kV Substation Expansion :

- AES will install two new 69kV circuit breakers to establish two line-breakers. **Estimated Cost:** \$2.6M

Camden 69 kV Substation Expansion :

- AES will install one new 69kV circuit breakers to establish a bus-tie breaker. **Estimated Cost:** \$1.3M

Crystal and Hutching Substations Remote-End:

- AES will refurbish the protection and controls at Crystal and Hutching substations. **Estimated Cost:** \$1M

Total Estimated Transmission Cost : \$6.2M

Project In-Service Date : 12/1/2028

Alternatives Considered:

➤ Rebuild the existing~30-mile long 6602 69 kV Line

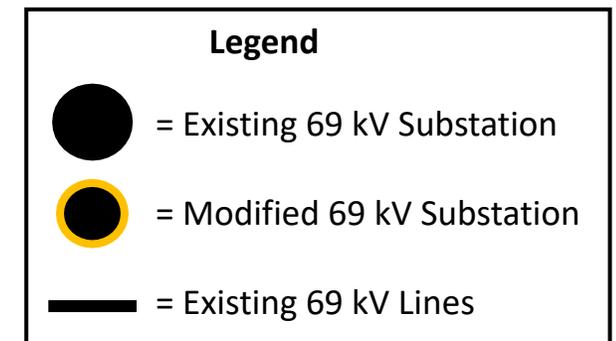
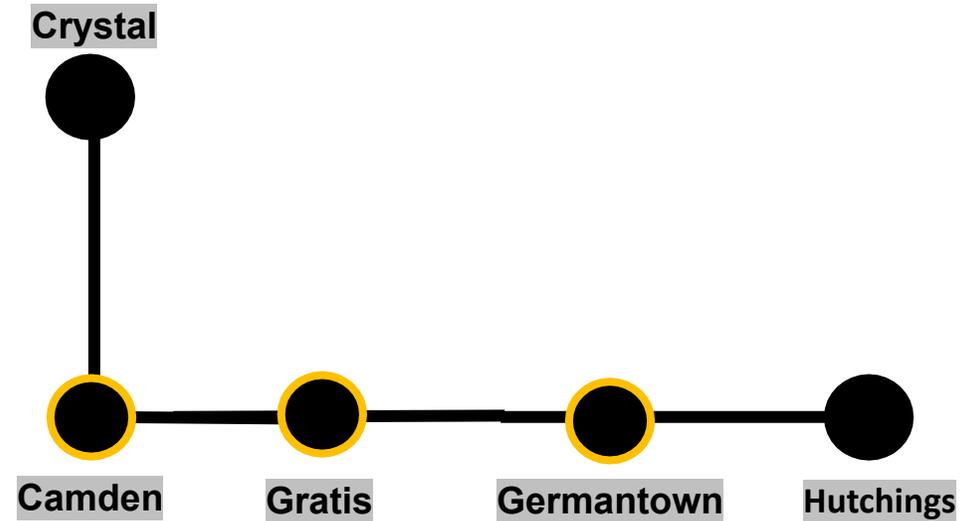
- AES will rebuild 30 miles of 69 kV. While the condition of the line is a concern, it will not be addressed at this time. This scope was not included due to the incremental benefit of the substation expansions.

➤ Full Ring Bus at Germantown, Gratis, and Camden

- Convert Germantown, Gratis, and Camden to full ring buses. This scope was not included due to the incremental benefit of the substation expansions.

Project Status: Conceptual

Model: 2022 RTEP Series, 2027 Summer Case



Need Number: Dayton-2025-011

Process Stage: Solution Meeting 2/13/2026

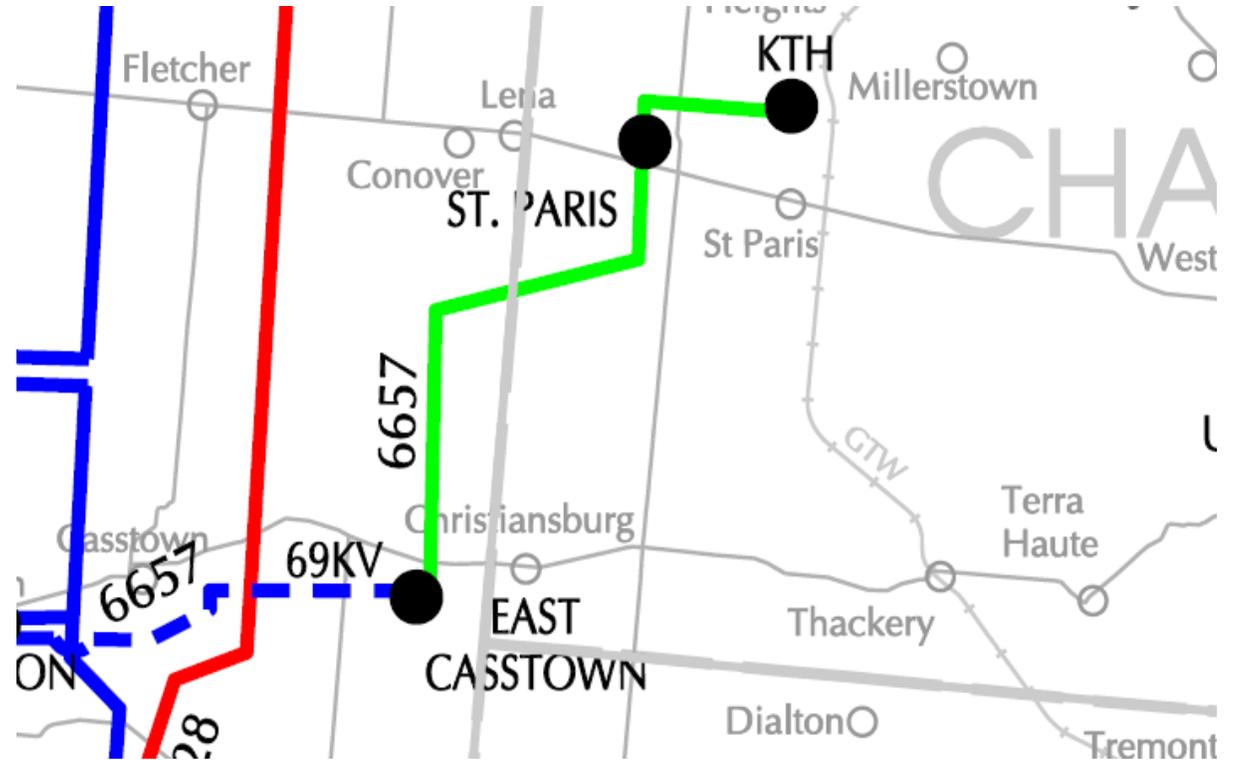
Previously Presented: Need Meeting 11/14/2025

Project Driver: Equipment Material Condition, Performance and Risk.

Specific Assumption Reference: Dayton Local Plan Assumptions

Problem Statement:

- The East Casstown–St. Paris segment contains wood poles and hardware from the 1960s–1970s, indicating aging infrastructure in need of replacement. Additionally, emerging operational constraints and the need to preserve continuity of the communication path further support the necessity to replace this section of the line.



Existing Facility Ratings:

Branch 69 kV	SN/SE/WN/WE (MVA)
East Casstown - St. Paris	45/53/61/66



Need Number: Dayton-2025-011

Previously Presented: Need Meeting 11/14/2025

Process Stage: Solution Meeting 2/13/2026

Project Driver: Equipment Material Condition, Performance and Risk.

Specific Assumption Reference: Dayton Local Plan Assumptions

Solution:

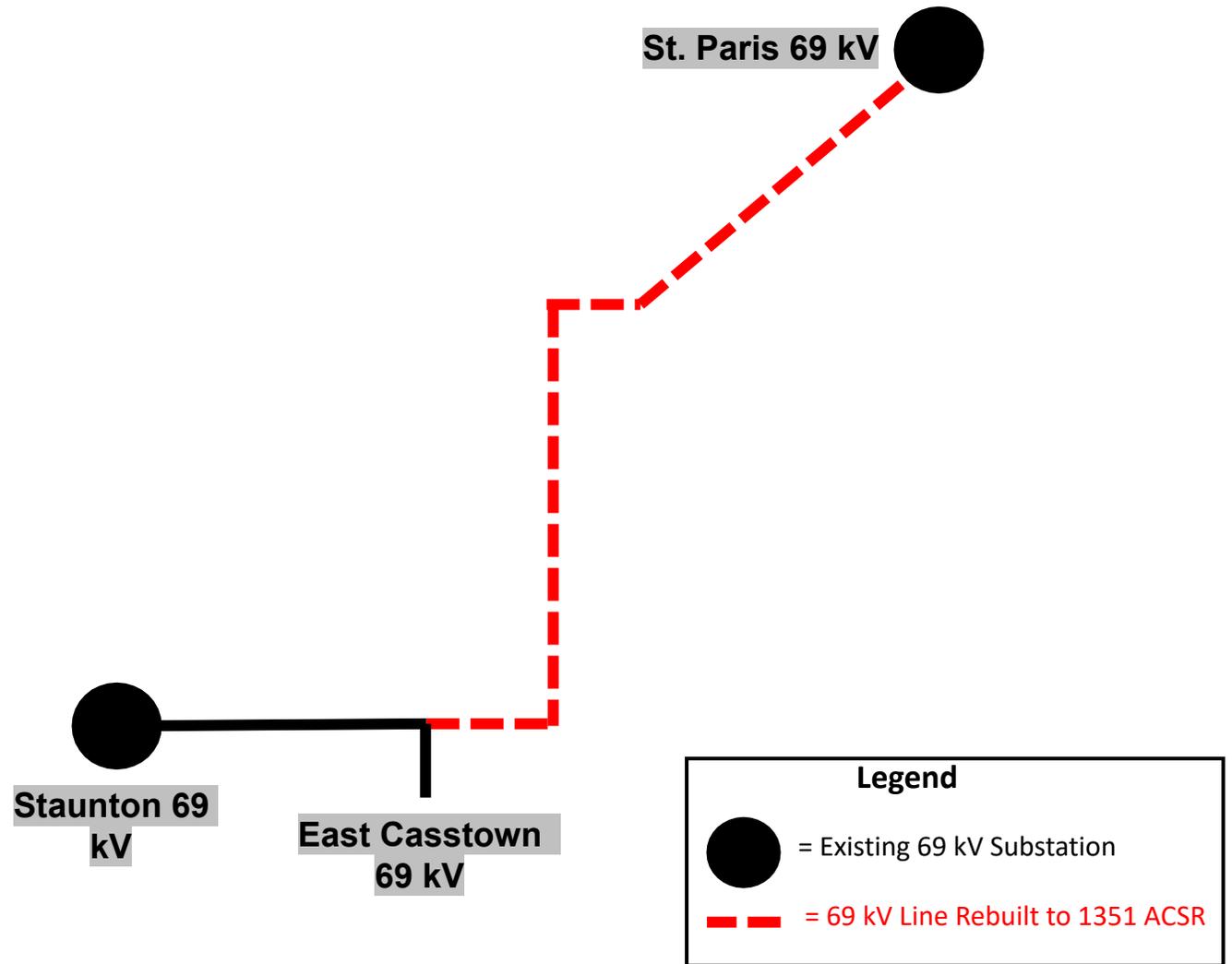
Rebuild East Casstown to St Paris with 1351 ACSR conductor with OPGW.

New Line Ratings: SN:153 SE:190 WN:213 WE:238

In-Service Date: 12/31/2027

Total Transmission Estimated Cost: \$8M

Alternatives Considered: N/A



Appendix

High Level M-3 Meeting Schedule

Assumptions	Activity	Timing
	Posting of TO Assumptions Meeting information	20 days before Assumptions Meeting
	Stakeholder comments	10 days after Assumptions Meeting
Needs	Activity	Timing
	TOs and Stakeholders Post Needs Meeting slides	10 days before Needs Meeting
	Stakeholder comments	10 days after Needs Meeting
Solutions	Activity	Timing
	TOs and Stakeholders Post Solutions Meeting slides	10 days before Solutions Meeting
	Stakeholder comments	10 days after Solutions Meeting
Submission of Supplemental Projects & Local Plan	Activity	Timing
	Do No Harm (DNH) analysis for selected solution	Prior to posting selected solution
	Post selected solution(s)	Following completion of DNH analysis
	Stakeholder comments	10 days prior to Local Plan Submission for integration into RTEP
	Local Plan submitted to PJM for integration into RTEP	Following review and consideration of comments received after posting of selected solutions

Revision History

1/29/2026 – V1

2/13/2026 – V2