



Sub Region RTEP Mid-Atlantic Committee BGE Supplemental Projects

November 16, 2023

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: BGE-2023-010

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

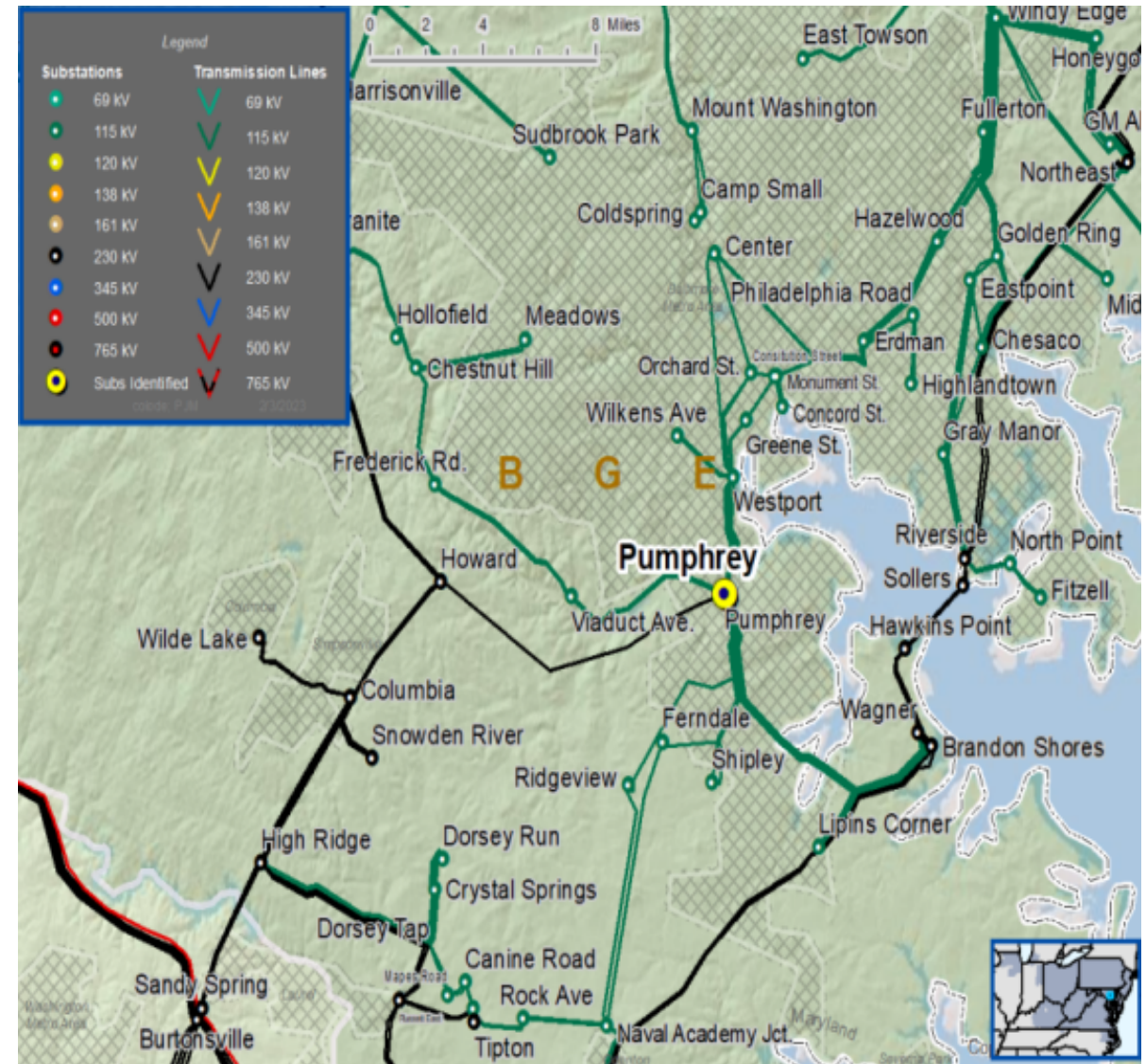
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Pumphrey 115kV circuit breaker #B4 installed in 1977 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-010

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Pumphrey circuit breaker B4

The estimated cost per breaker is \$0.7M

Existing rating 3000A, 63kA

Proposed rating 4000A, 80kA

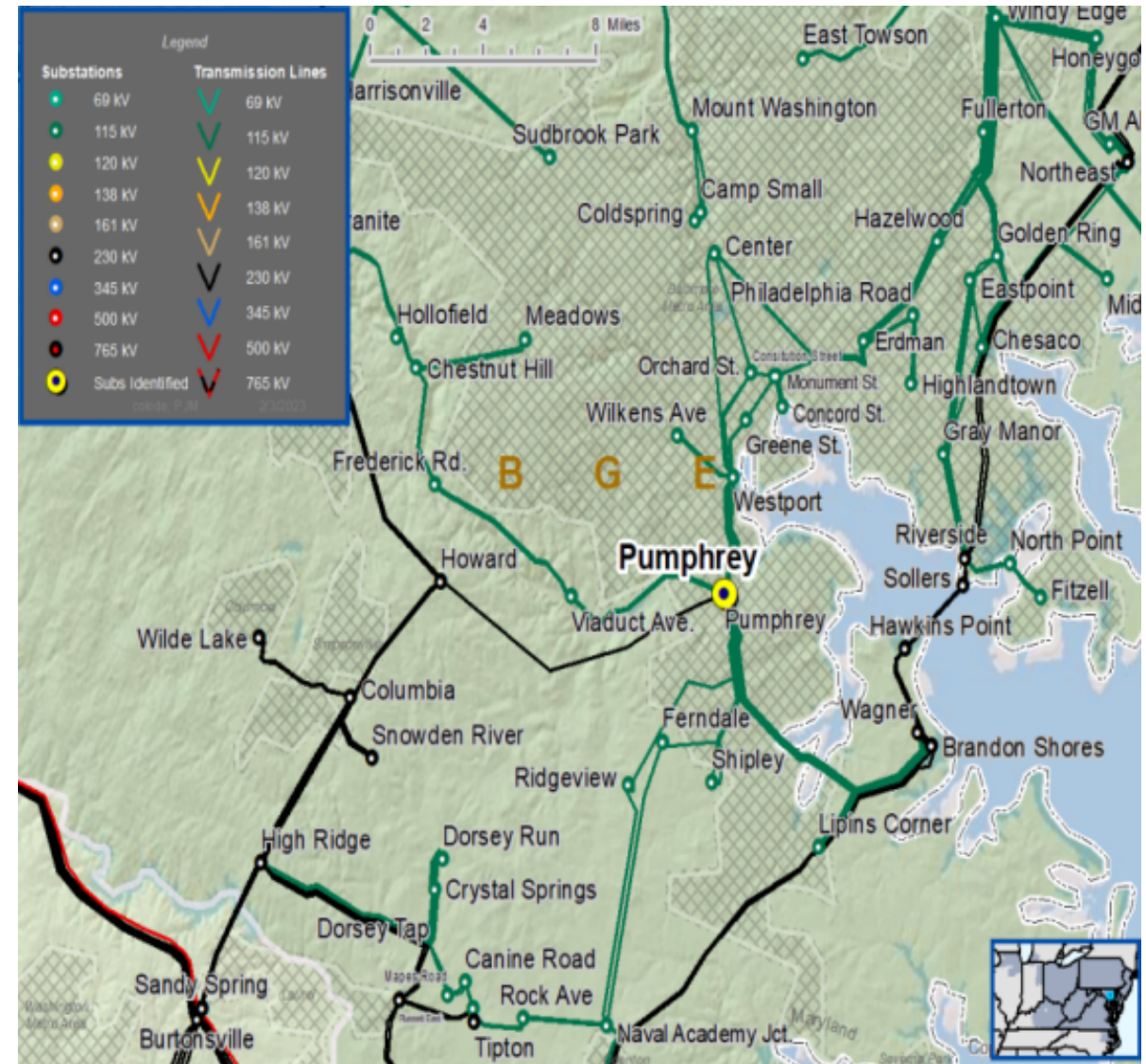
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 4/5/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-011

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

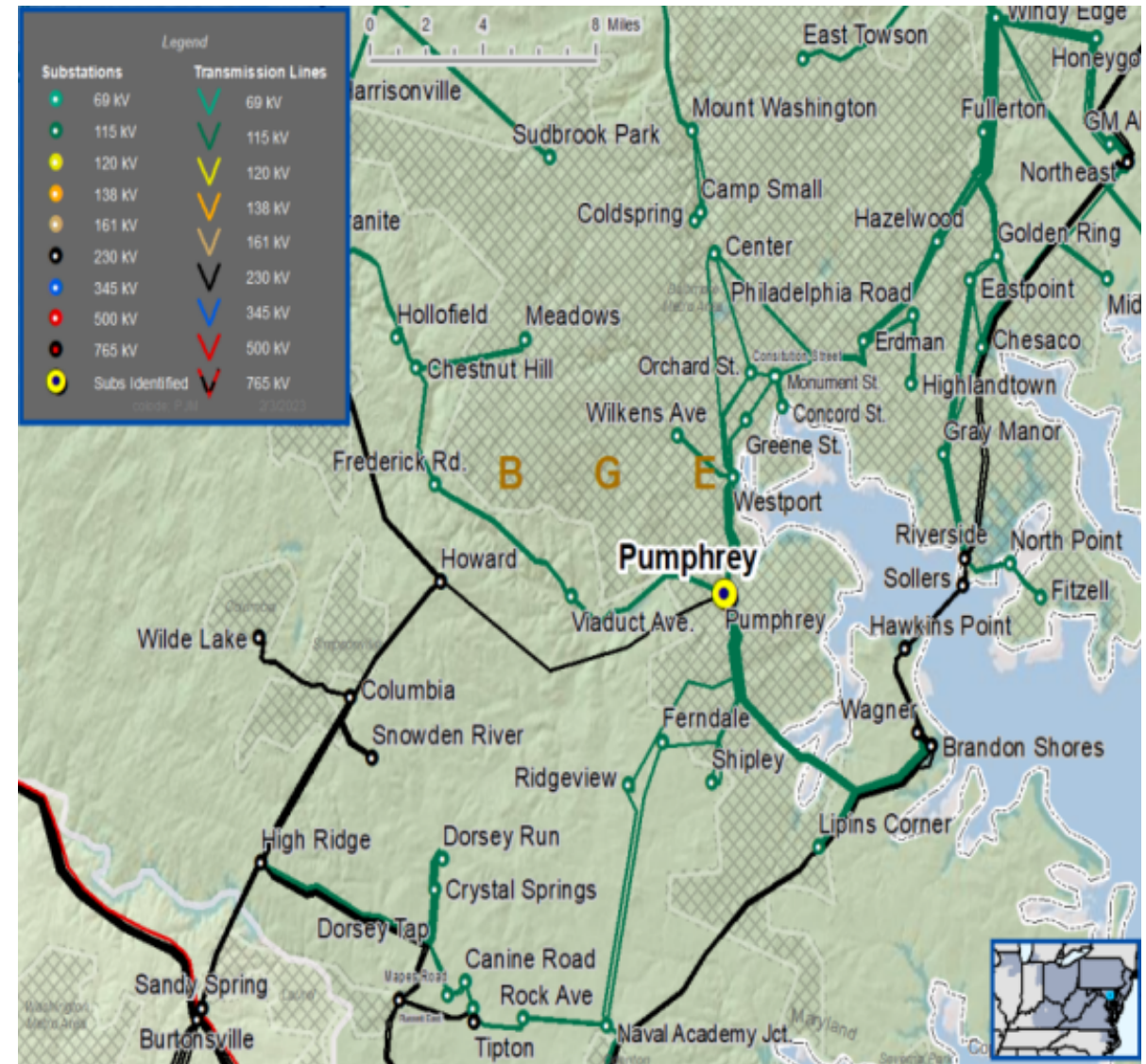
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Pumphrey 115kV circuit breaker #B5 installed in 1979 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-011

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Pumphrey circuit breaker B5

The estimated cost of the project is \$0.7M

Existing rating 3000A, 63kA

Proposed rating 4000A, 80kA

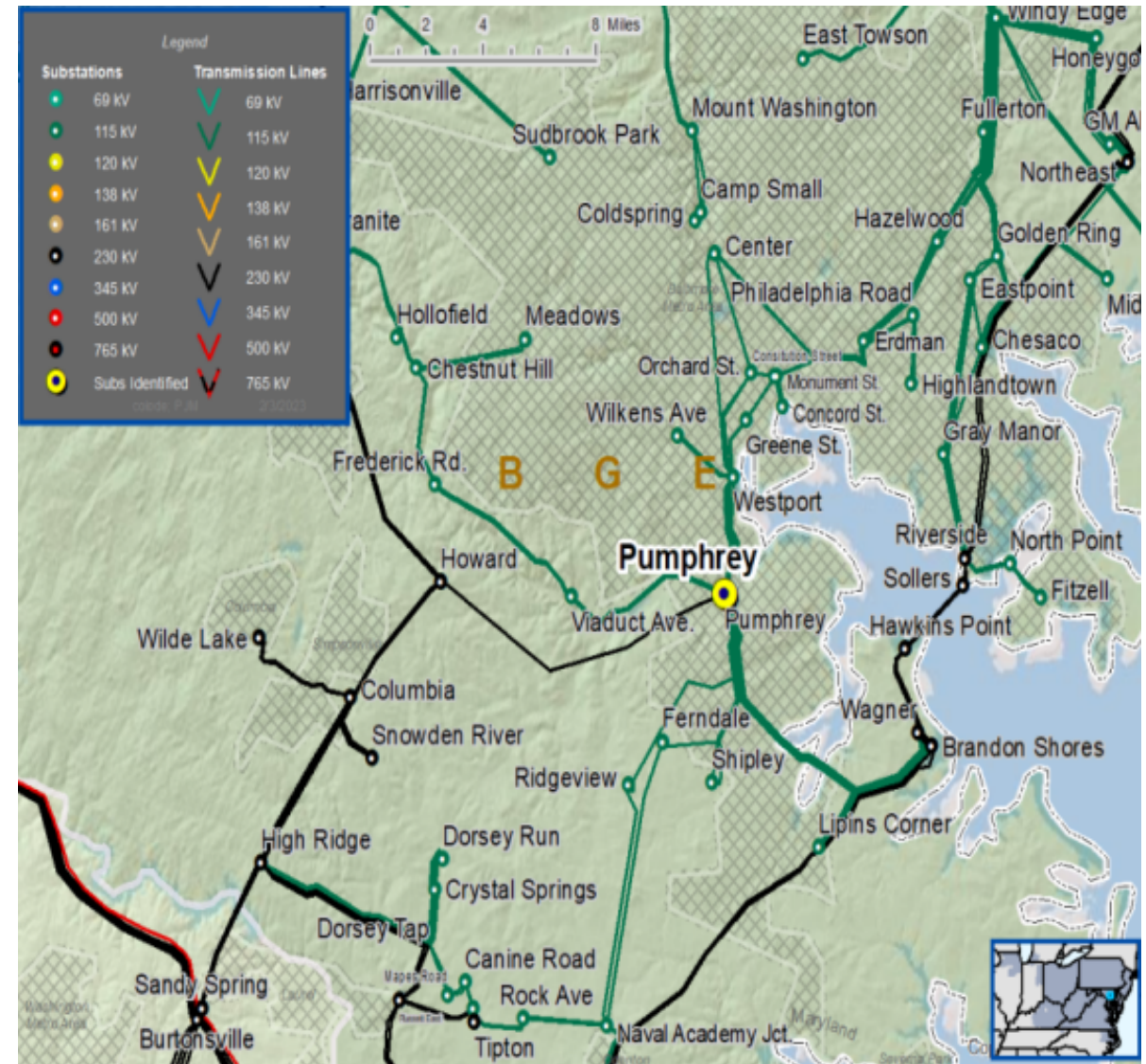
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 5/10/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-012

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

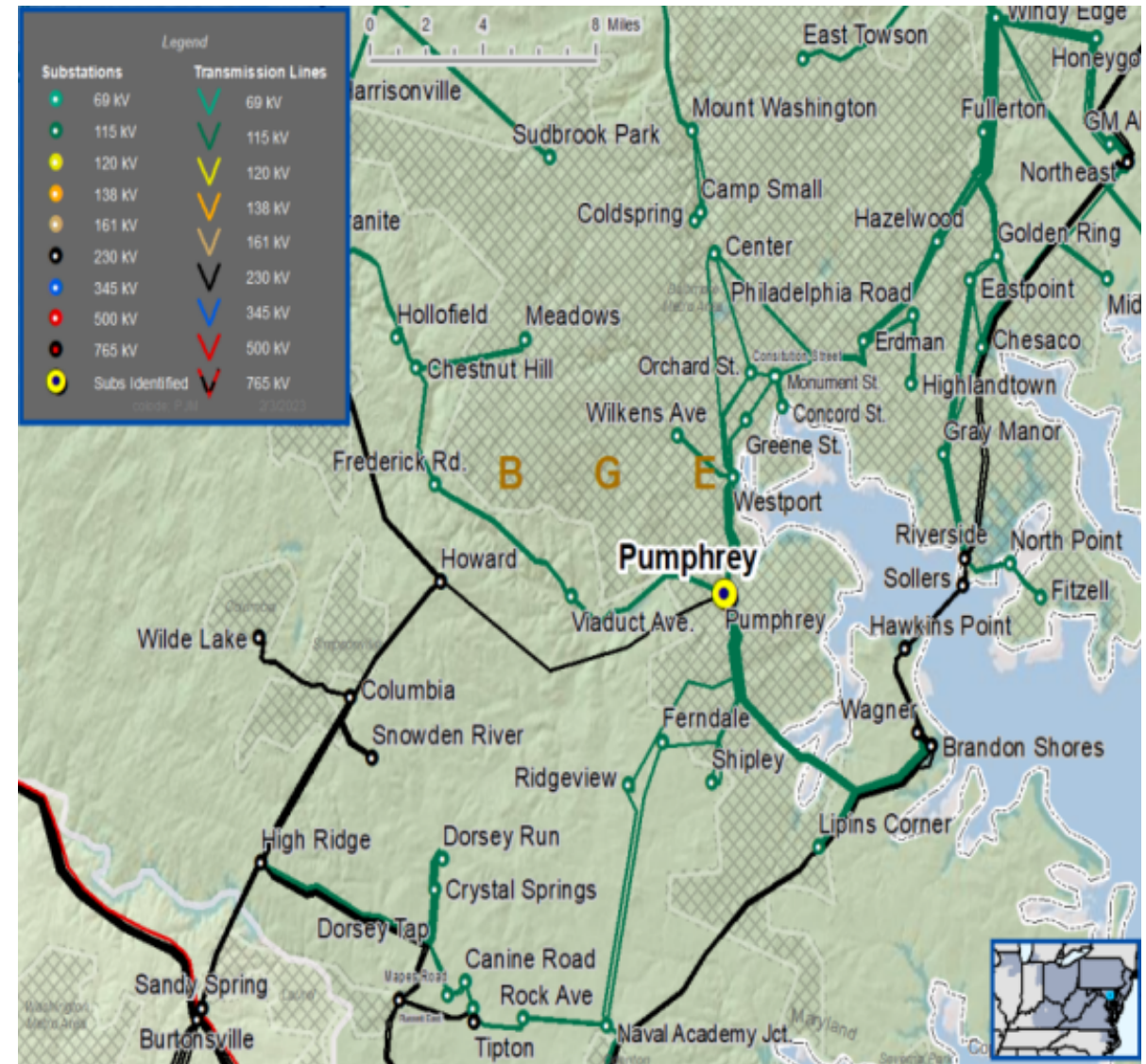
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Pumphrey 115kV circuit breaker #B6 installed in 1977 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-012

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Pumphrey circuit breaker B6

The estimated cost of the project is \$0.7M

Existing rating 3000A, 63kA

Proposed rating 4000A, 80kA

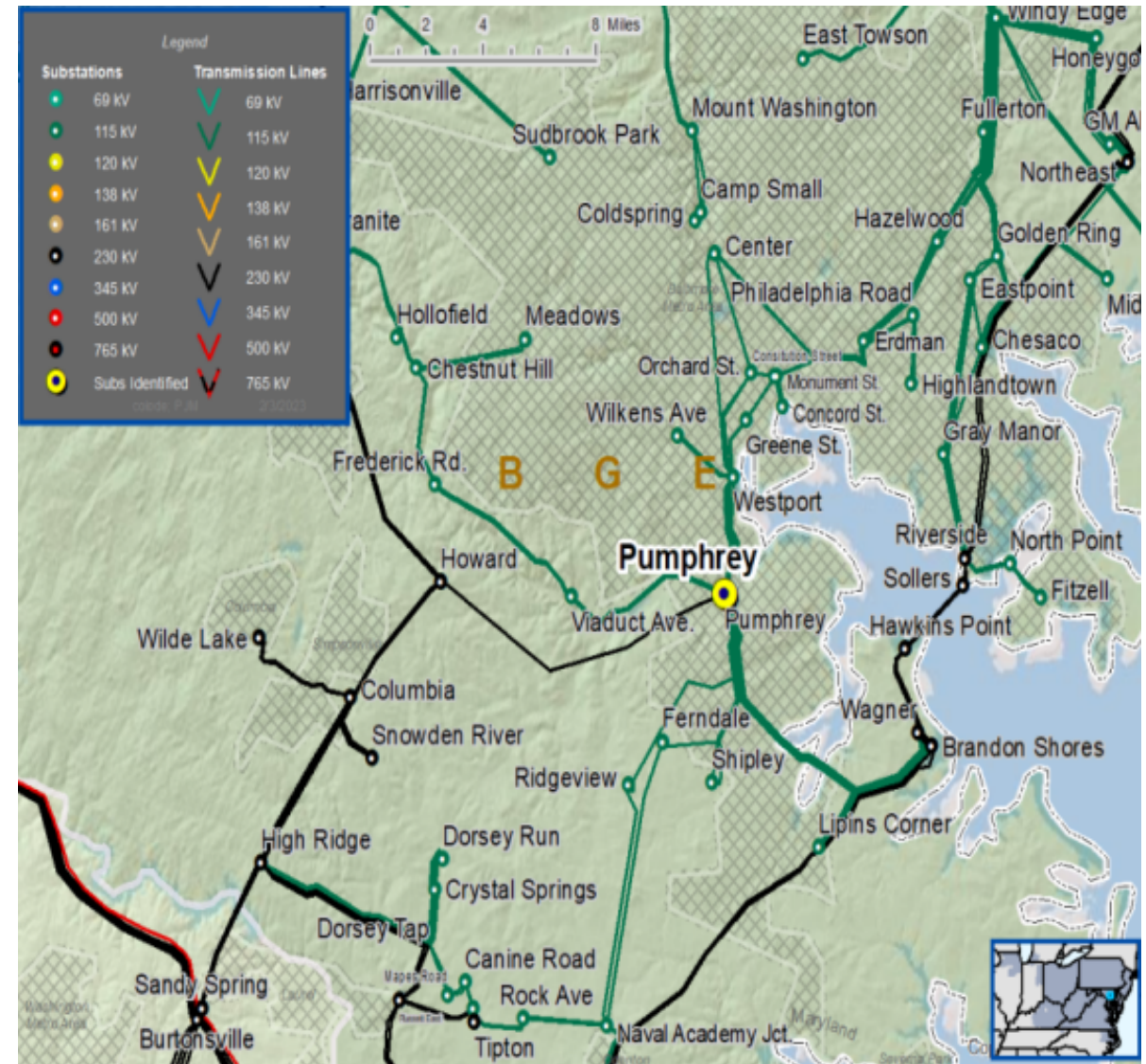
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 6/13/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-013

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

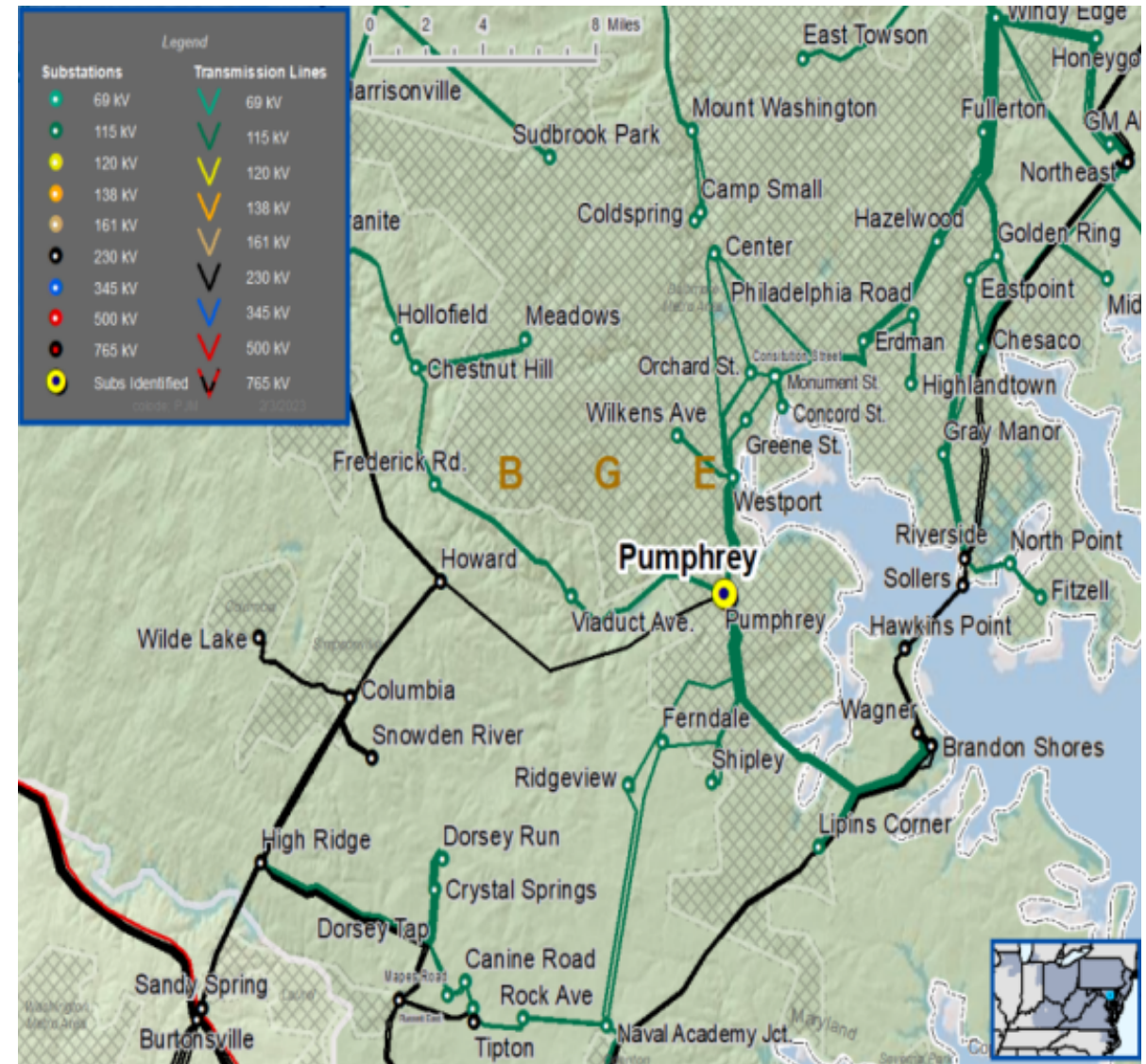
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Pumphrey 115kV circuit breaker #B7 installed in 1977 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-013

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Pumphrey circuit breaker B7

The estimated cost of the project is \$0.7M

Existing rating 3000A, 63kA

Proposed rating 4000A, 80kA

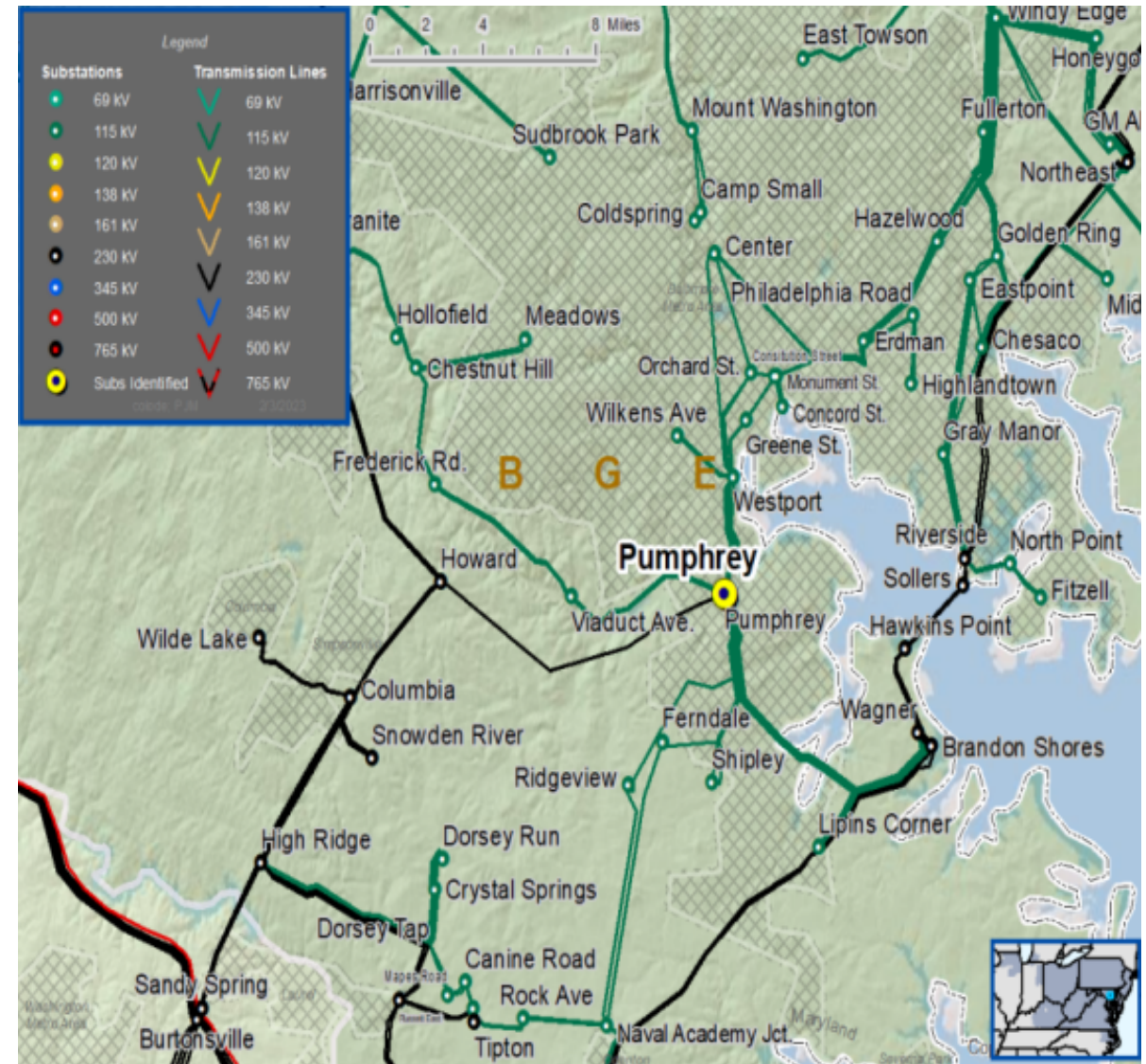
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 11/28/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-014

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

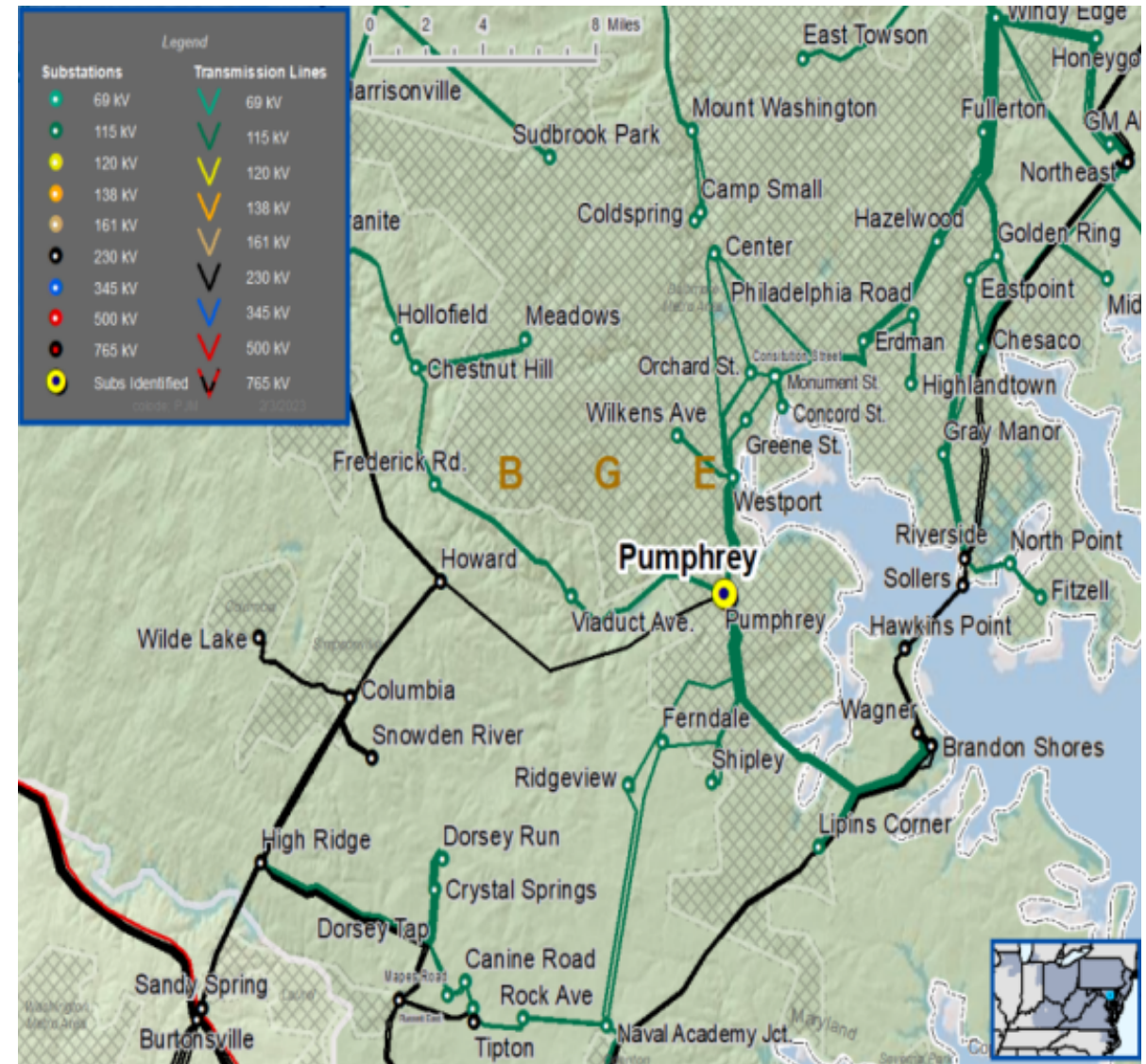
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Pumphrey 115kV circuit breaker #B9 installed in 1977 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-014

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Pumphrey circuit breaker B9

The estimated cost of the project is \$0.7M

Existing rating 3000A, 63kA

Proposed rating 4000A, 80kA

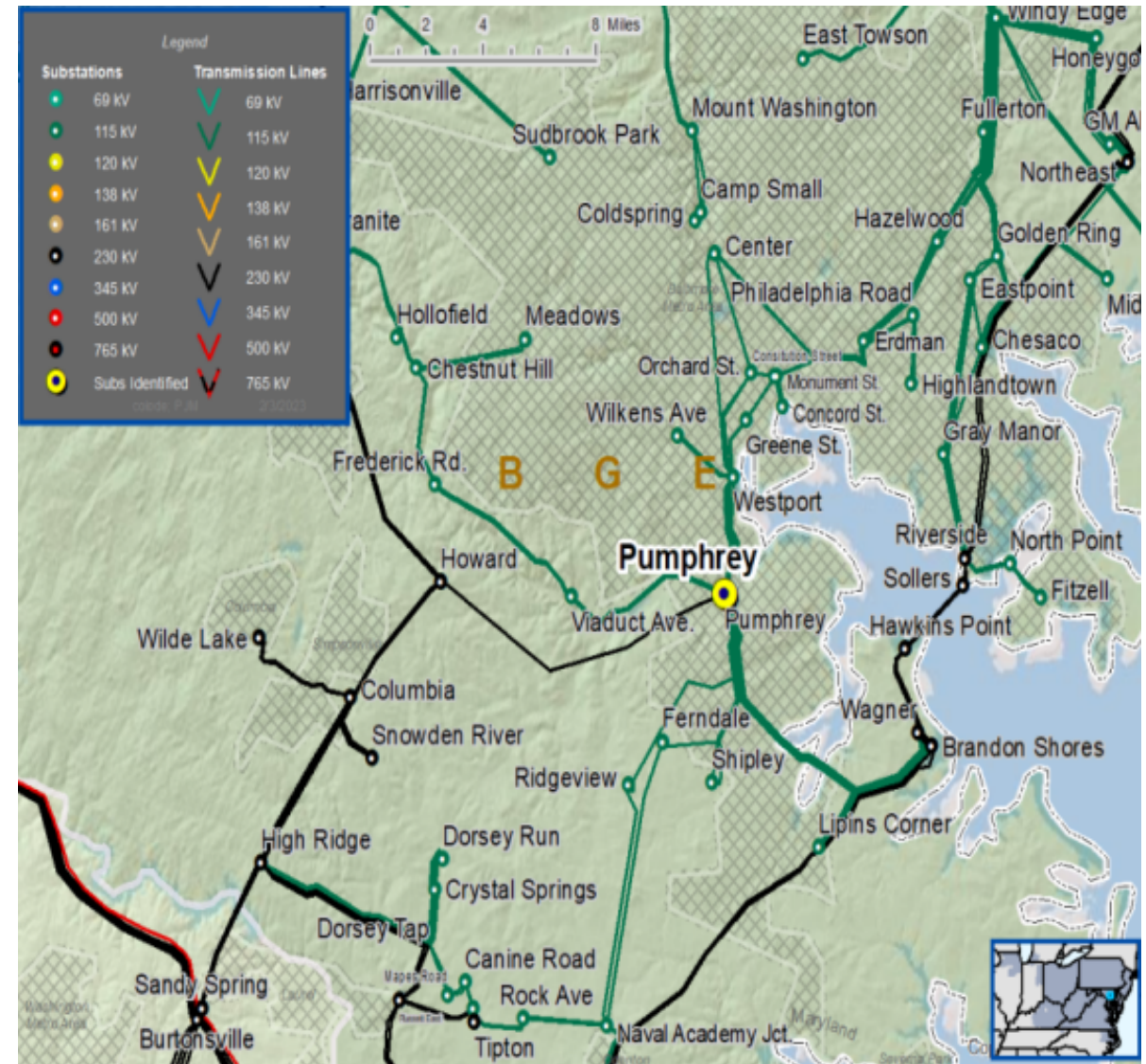
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 10/18/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-015

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

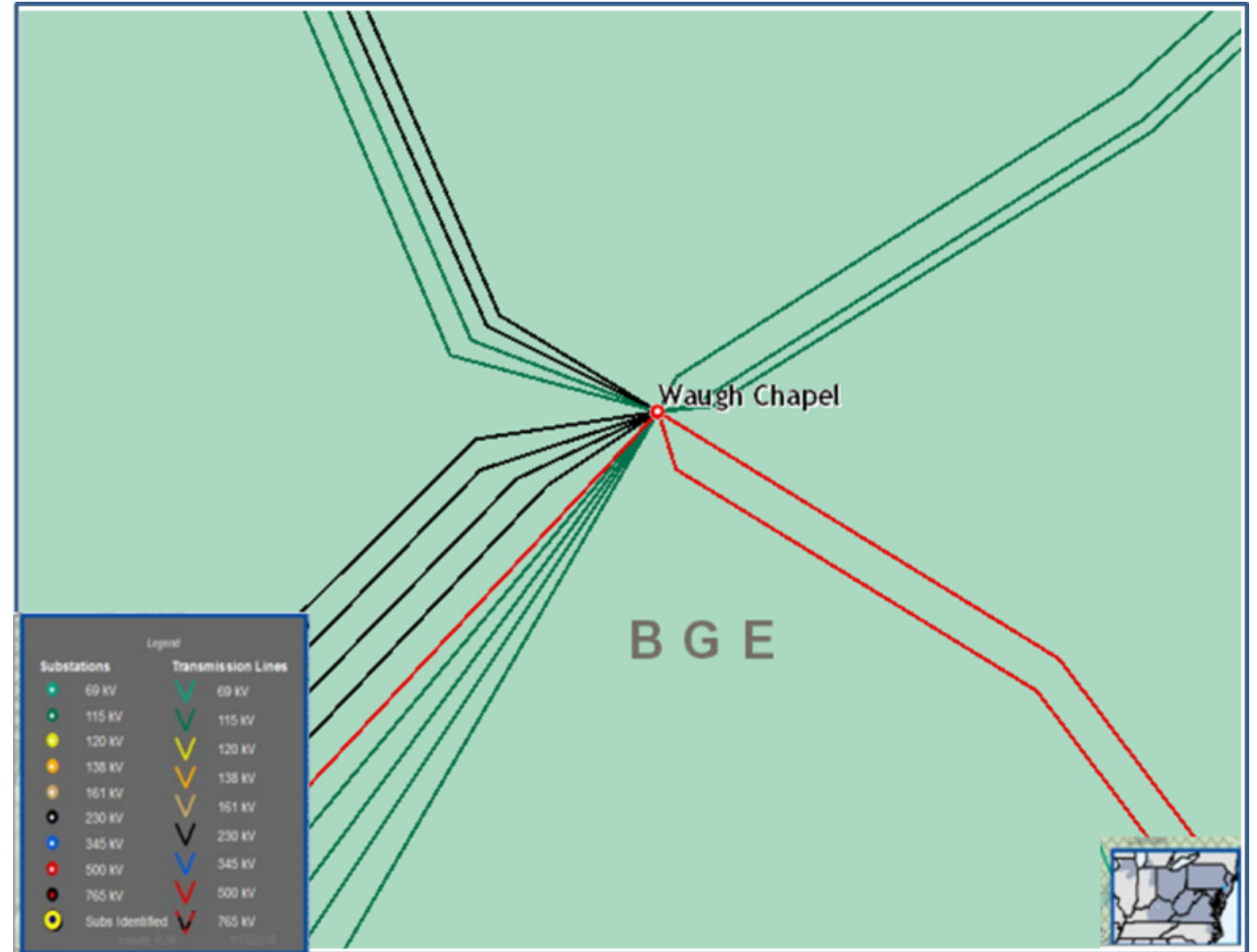
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Waugh Chapel 115kV circuit breaker #B6 installed in 1996 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-015

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Waugh Chapel circuit breaker B6

The estimated cost of the project is \$0.7M

Existing rating 2500A, 63kA

Proposed rating 3000A, 63kA

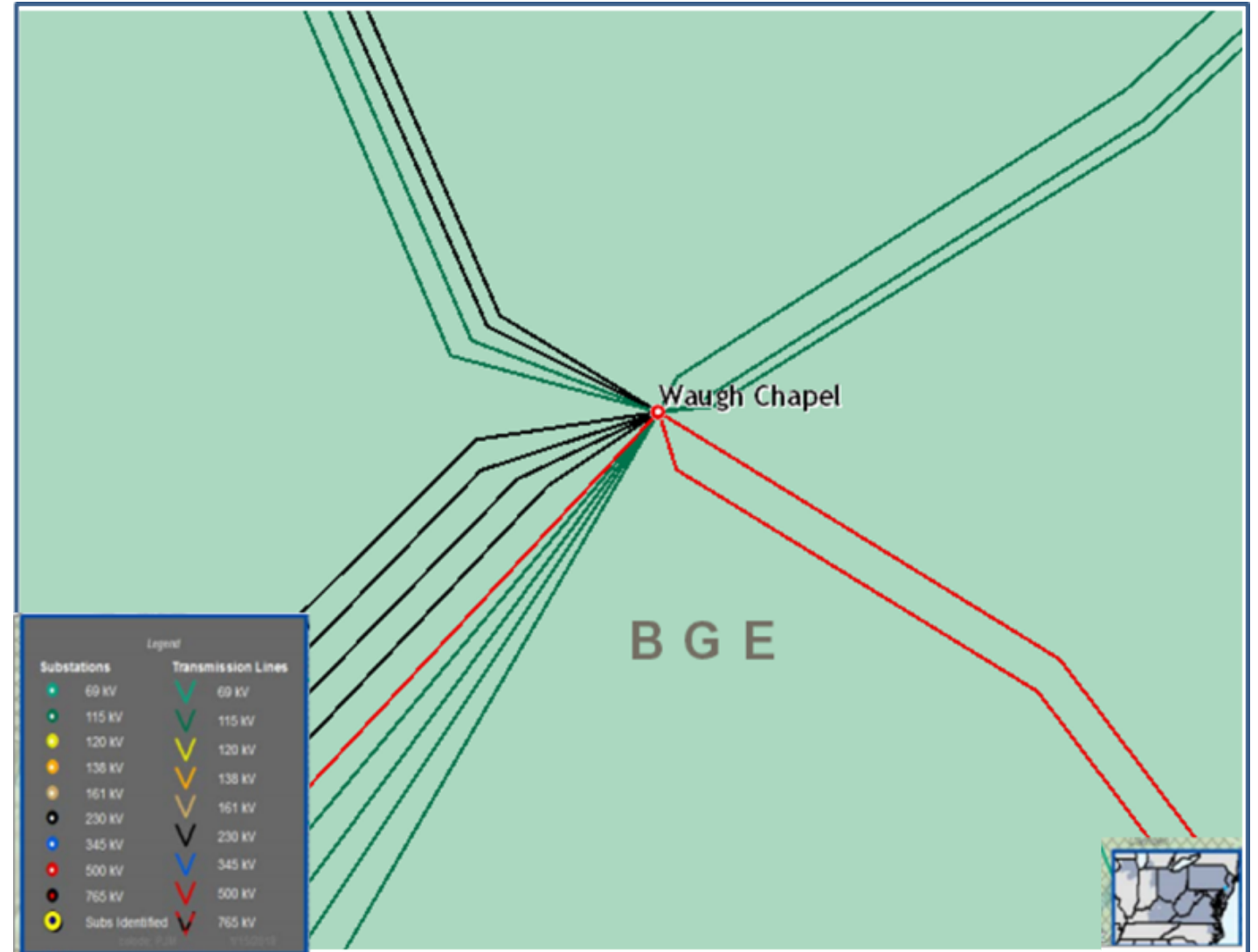
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 10/17/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-016

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

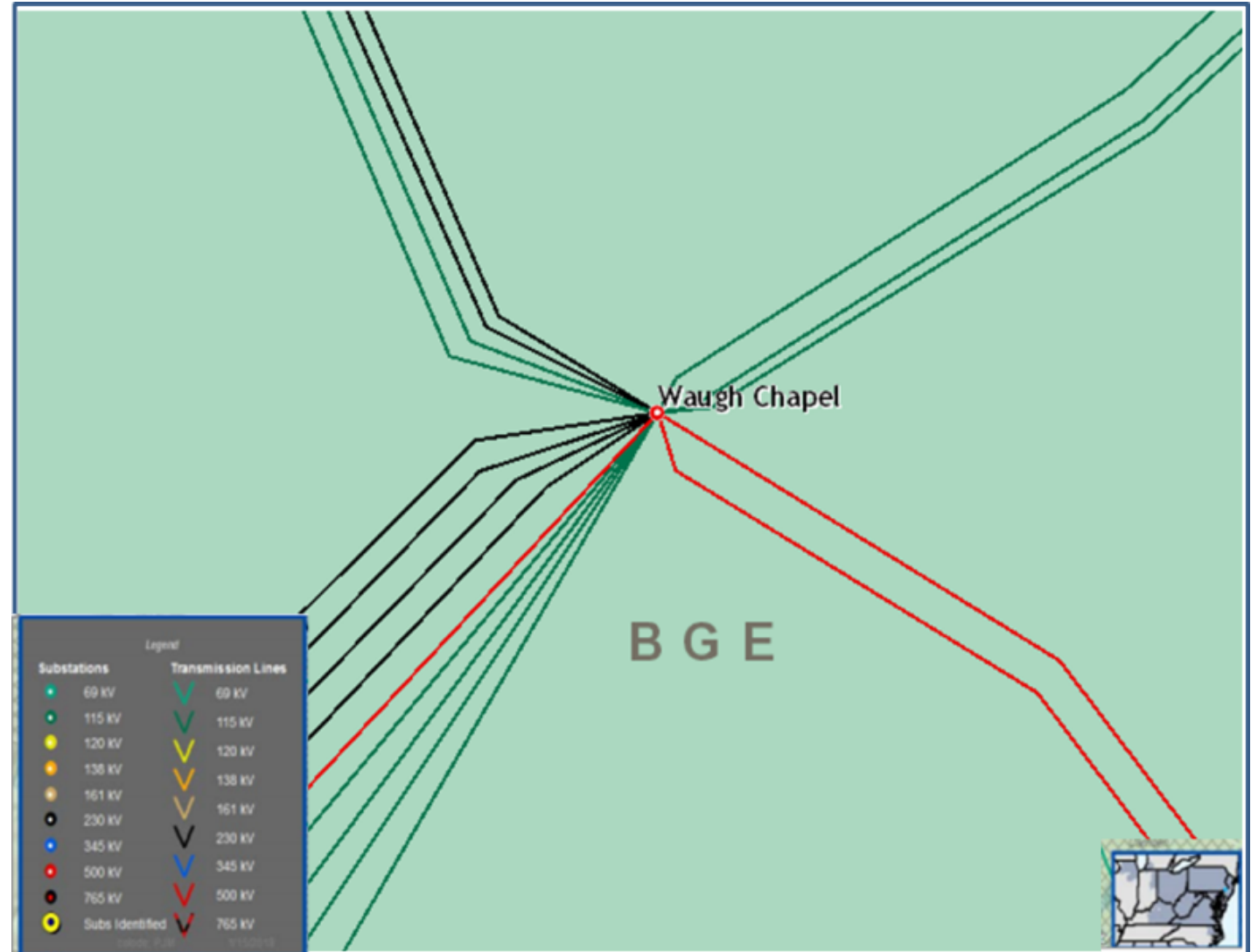
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Waugh Chapel 115kV circuit breaker #B9 installed in 1996 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-016

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Waugh Chapel circuit breaker B9

The estimated cost of the project is \$0.7M

Existing rating 2500A, 63kA

Proposed rating 3000A, 63kA

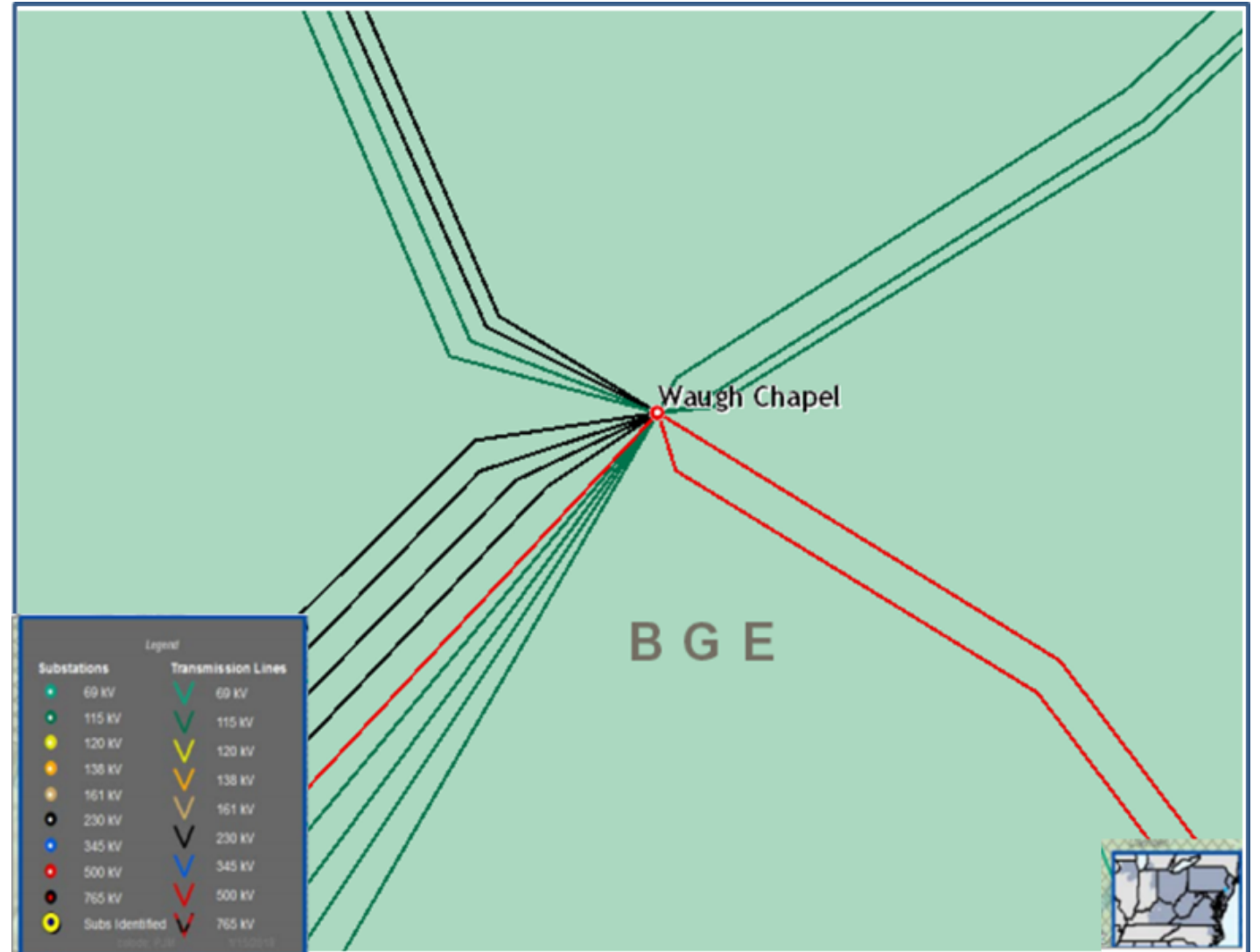
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 6/6/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-017

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

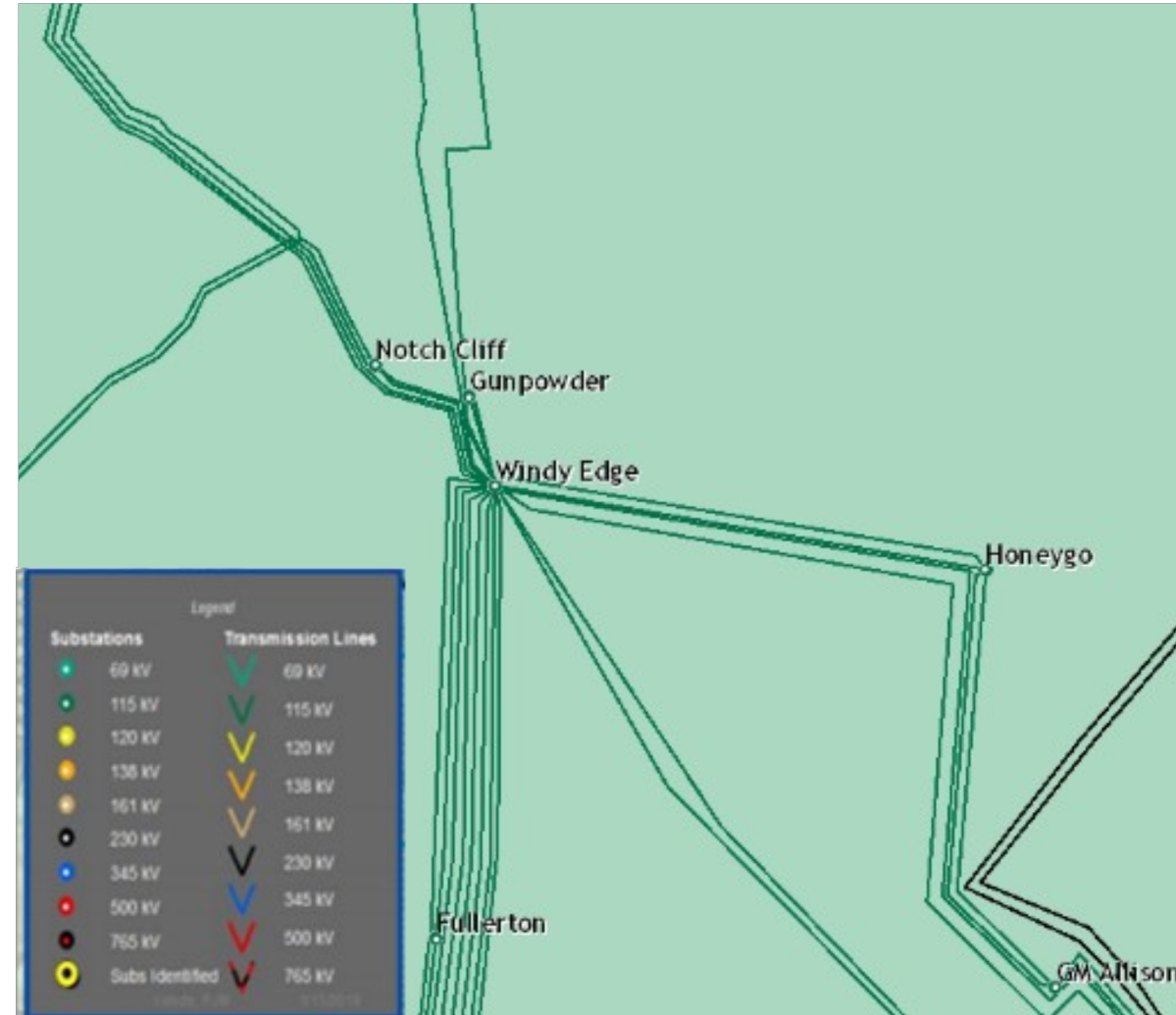
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Windy Edge 115kV circuit breaker #B19 installed in 1961 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-017

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Windy Edge circuit breaker B19

The estimated cost of the project is \$0.7M

Existing rating 1600A, 25kA

Proposed rating 3000A, 63kA

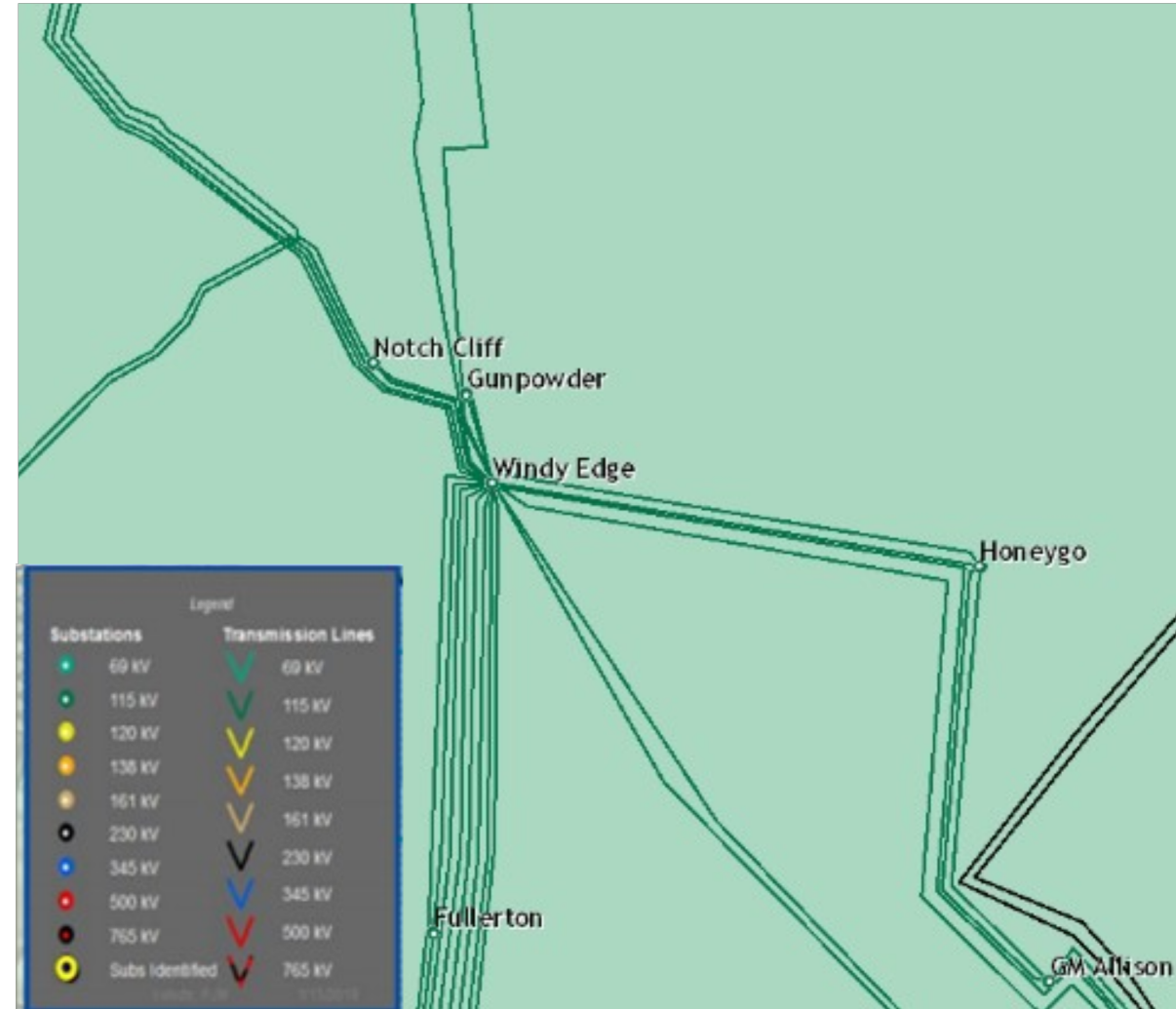
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 11/4/2024

Project Status: Engineering

Model: 2028 RTEP



Need Number: BGE-2023-018

Process Stage: Solutions Meeting 11/16/2023

Previously Presented: Need Meeting 10/19/2023

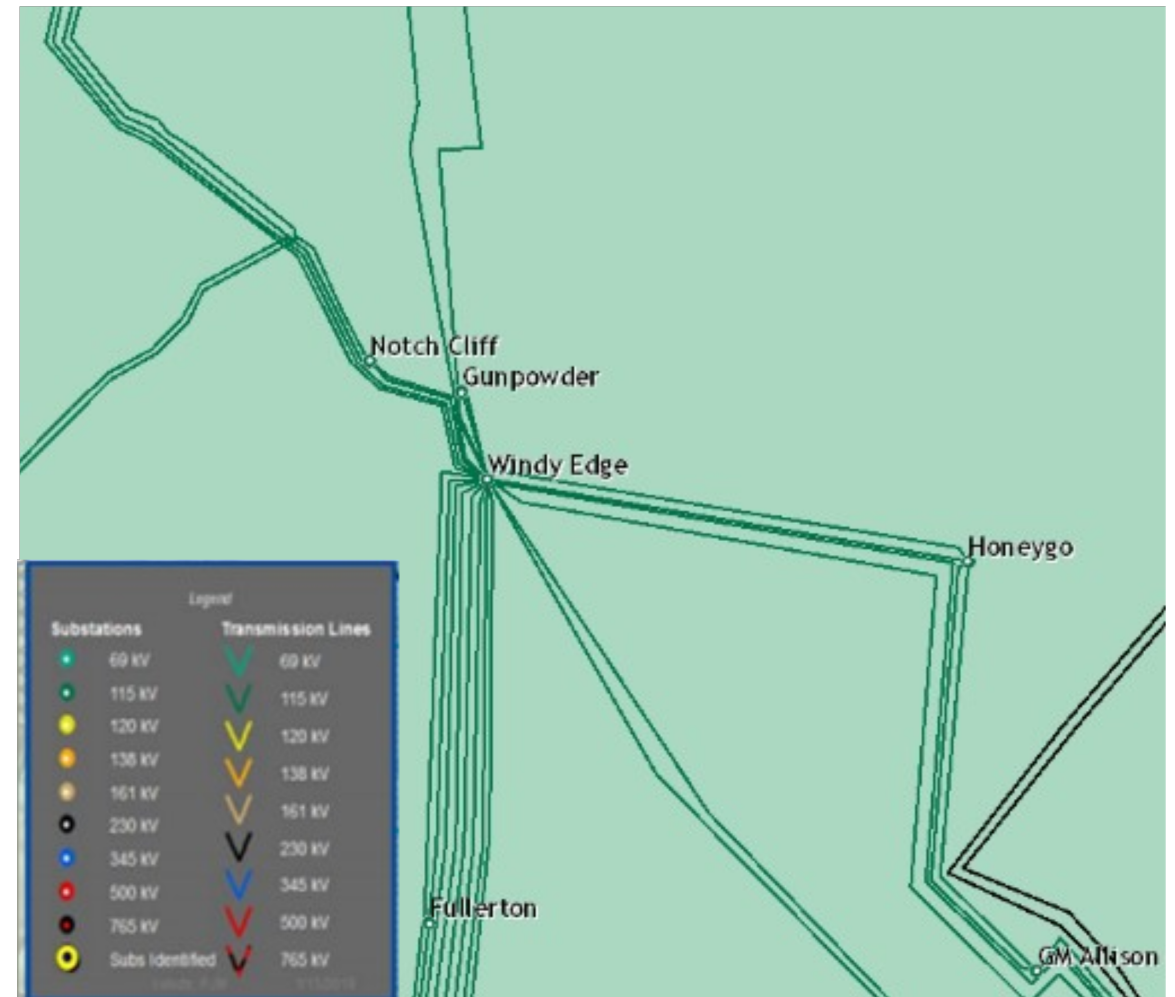
Project Driver: Equipment Material Condition, Performance, and Risk

Specific Assumption Reference:

- Transmission infrastructure replacements (EOL/condition/obsolescence) that are consistent with efficient asset management decisions
- Programmatic review and/or replacement of breakers, relays, wood poles, cables, etc.

Problem Statement:

- Windy Edge 115kV circuit breaker #B20 installed in 1961 is in deteriorating condition and has elevated maintenance costs



Need Number: BGE-2023-018

Process Stage: Solution Meeting – November 16, 2023

Proposed Solution:

Replace Windy Edge circuit breaker B20

The estimated cost of the project is \$0.7M

Existing rating 1600A, 25kA

Proposed rating 3000A, 63kA

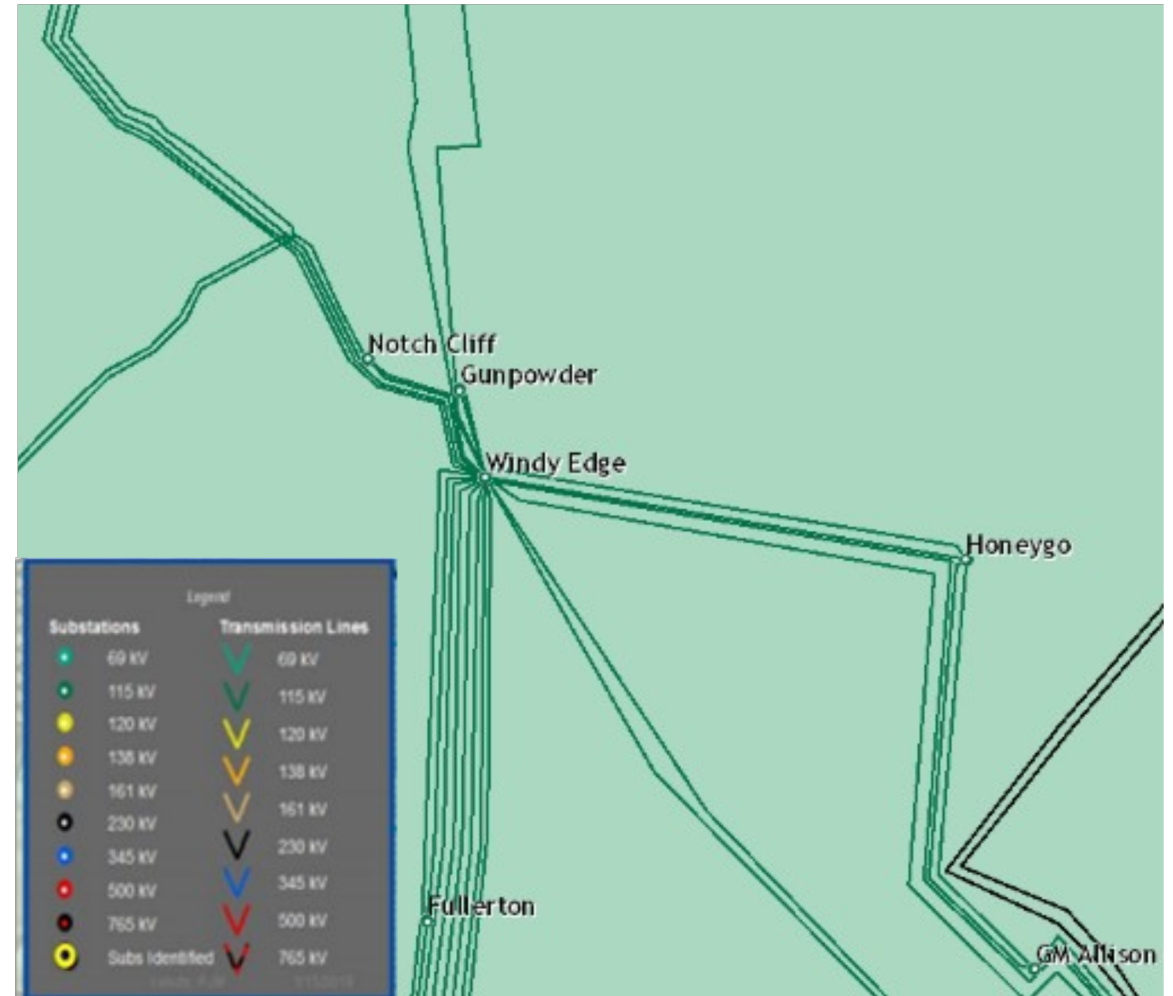
Alternatives Considered:

No feasible alternatives considered

Projected In-Service: 10/10/2024

Project Status: Engineering

Model: 2028 RTEP



Questions?



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

11/6/2023 – V1 – Original version posted to pjm.com

11/15/2023 – V2 – Updated slides #17-20 – maps and title change