

Transmission Expansion Advisory Committee – BGE Supplemental Projects

August 10, 2021

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-2021-004

Process Stage: Solution Meeting 8/10/2021

Previously Presented: Need Meeting 7/13/2021

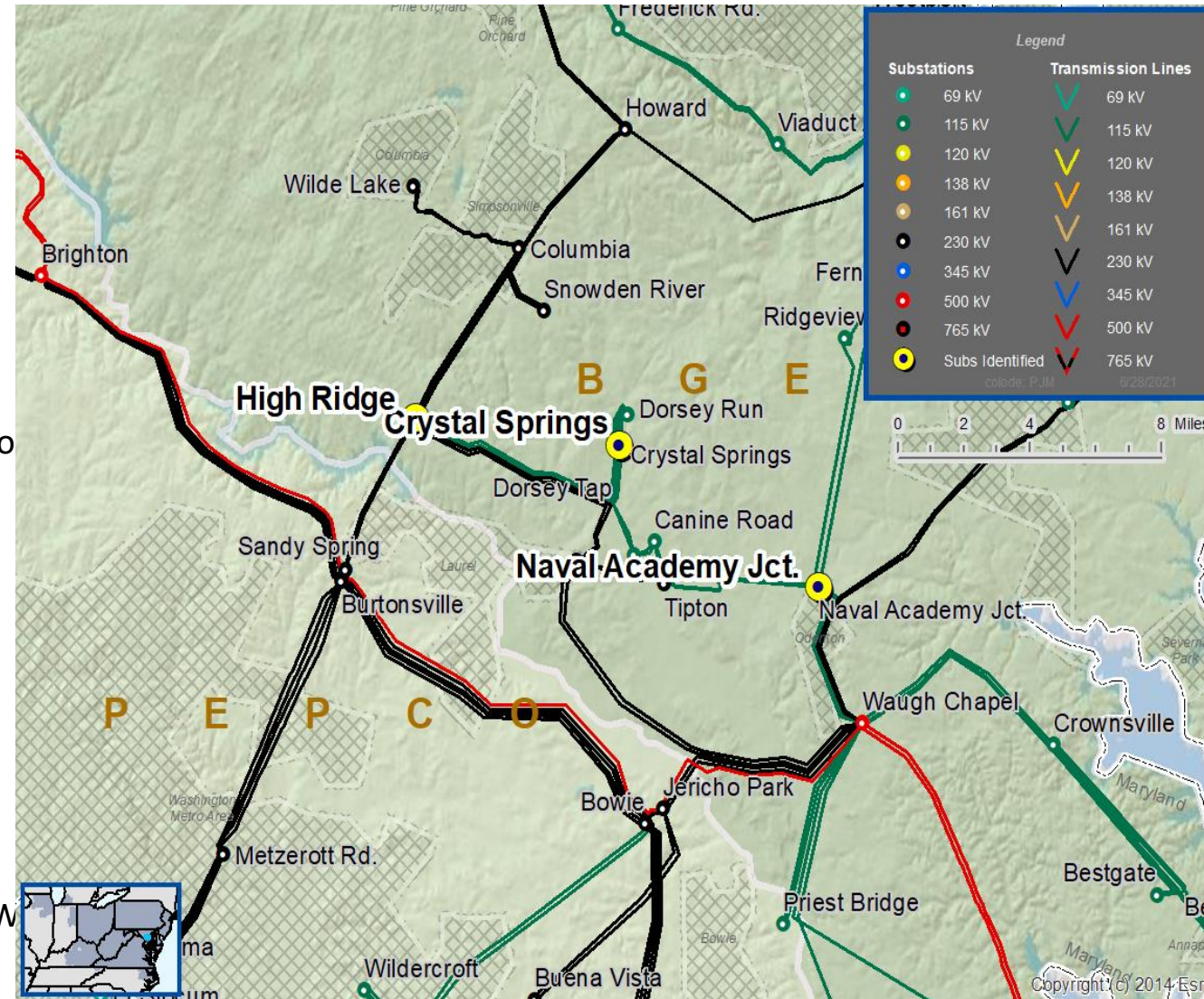
Project Driver: Customer Service

Specific Assumption Reference:

Transmission System configuration changes due to new or expansion of existing distribution substations

Problem Statement:

- Existing BGE 34kV Distribution capacity unable to serve growing distribution customer load in vicinity of its High Ridge – Crystal Springs and Naval Academy Jct. 34kV Distribution stations
- New Transmission connection to supply 34kV distribution load required in vicinity of High Ridge- Crystal Springs and Naval Academy Jct. 34kV
- New transmission connection must be capable of serving substation capacity of 100 MW with total forecasted load ~400MW



Proposed Solution:

- **Phase 1**
- Construct new 230kV OH/UG terminal/riser station in ROW area for connection to future 230kV breaker and half station as part of Phase 2
- Tap existing 2338 and 2316 circuits at terminal station location and install two new 230kV breakers and associated switches and equipment in temporary configuration to supply 2- 230/34kV distribution transformers for new BGE customer load by 12/2022.

Estimated Cost: \$14M

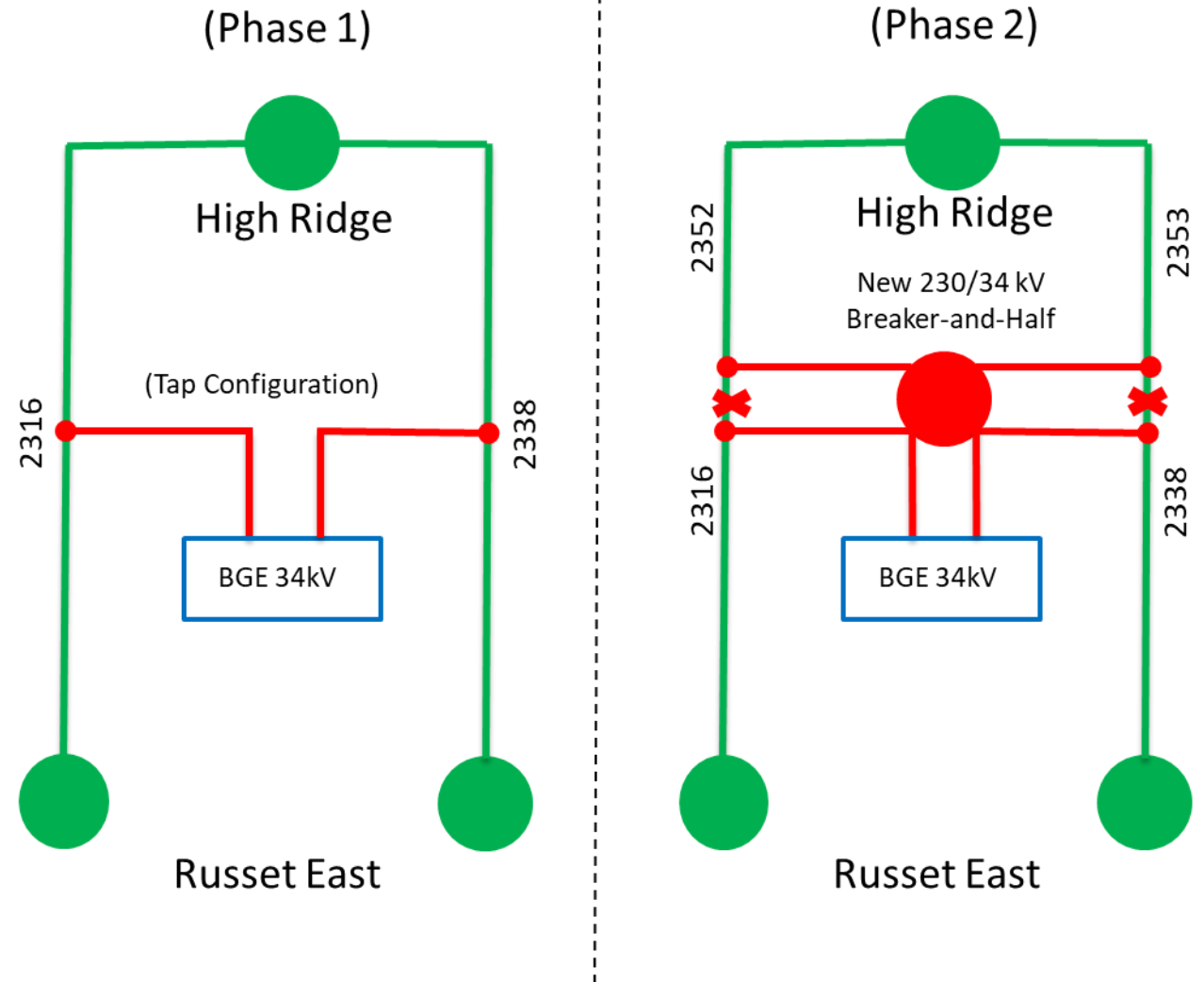
- **Phase 2**
- Cut into existing 2338 and 2316 circuits at terminal yard constructed in Phase 1 creating four individual circuits.
- Extend the four 230kV UG circuit segments to new 230kV GIS substation location ~0.5 Miles each using 2000 sq mm Cu XLPE with two cables per phase for a total of 24 cables.
- Connect UG circuits to new 230 kV, 16 position GIS breaker-and-half substation to supply 8- 230/34 kV BGE distribution transformers for new BGE customer load by 12/2024.

Estimated Cost: \$77M

Projected In-Service: (Phase 1) 12/2022 , (Phase 2) 12/2024

Project Status: Engineering

Model: 2026 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

7/30/2021 - V1 – Original version posted to pjm.com