Conastone to Northwest #2 Reconductor

General Information

Proposing entity name	Information for PJM consideration.
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	
PJM Proposal ID	94
Project title	Conastone to Northwest #2 Reconductor
Project description	Reconductor two (2) 230 kV circuits from Conastone to Northwest #2.
Email	Information for PJM consideration.
Project in-service date	06/2026
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Information for PJM consideration.

Project Components

1. Reconductor 230kV Double Circuit Tower Line from Conastone substation to Northwest #2 substation

Transmission Line Upgrade Component

Component title	Reconductor 230kV Double Circuit Tower Line from Conastone substation to Northwest #2 substation

Project description	The transmission scope of work includes the re-conductoring of two (2) 230 kV Circuits 2310 and 2322 on double circuit lattice towers from Northwest #2 Substation to Conastone Substation. This line spans approximately 25 miles from Reisterstown, Maryland to Norrisville, Maryland. The northern most shield wire of the 2322 circuit will be replaced with the fiber optic overhead shield wire (OPGW) in this scope of work.
Impacted transmission line	2310 & 2322
Point A	Conastone substation
Point B	Northwest #2 substation
Point C	
Terrain description	The Project site is located in sparsely populated areas of Baltimore and Harford counties. All construction work on the Project will take place on BGE-owned property. Adjacent properties are predominantly agricultural and farming businesses.

Existing Line Physical Characteristics

Operating voltage	230
Conductor size and type	1272 kcm 45/7 ACSR "Bittern", 1590 kcmil 45/7 ACSR "Lapwing"
Hardware plan description	All insulators and hardware along with the static and conductor arm end plates for the existing lattice towers will be replaced. Both existing overhead shield wires will be replaced with one (1) new Alumoweld wire and one (1) 48-fiber count OPGW.
Tower line characteristics	The majority of the one hundred twenty-three (123) existing double circuit lattice towers, four (4) single circuit lattice towers, and four (4) single circuit H-Frames will be re-used after modifications.

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	230.000000	230.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	1100.000000	1364.000000
Winter (MVA)	1170.000000	1381.000000

Conductor size and type	1927-T13 42/19 ACCR/TW "Cumberland"
Shield wire size and type	3/8" 7 #8 alumoweld and 48-fiber count OPGW
Rebuild line length	25 miles
Rebuild portion description	Most of the existing towers will be reused. Reconductoring of the line will be segmented into three (3) phases.
Right of way	This project will be constructed in the existing ROW. No ROW expansion or acquisition is required.
Construction responsibility	Information for PJM consideration.
Benefits/Comments	Information for PJM consideration.
Component Cost Details - In Current Year $	
Engineering & design	Information for PJM consideration.
Permitting / routing / siting	Information for PJM consideration.
ROW / land acquisition	Information for PJM consideration.
Materials & equipment	Information for PJM consideration.
Construction & commissioning	Information for PJM consideration.
Construction management	Information for PJM consideration.
Overheads & miscellaneous costs	Information for PJM consideration.
Contingency	Information for PJM consideration.
Total component cost	$37,764,985.00
Component cost (in-service year)	$38,792,116.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2022W1-GD-W42	220963	CONASTON	220961	NWEST326	1	230	232	Winter Gen Deliv	Included
2022W1-GD-S38	220963	CONASTON	220961	NWEST326	1	230	232	Summer Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date	01/2023
Construction start date	01/2024
Project Duration (In Months)	41

Additional Comments

None