

Graceton to PPL Tie-Line Rebuild

General Information

Proposing entity name	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	912
Project title	Graceton to PPL Tie-Line Rebuild
Project description	Rebuild 1.4 miles of existing single circuit 230 kV tower line between BGE's Graceton substation to the PPL tie-line at the MD/PA state line to double circuit steel pole line with one (1) circuit installed to uprate 2303 circuit.
Email	For PJM consideration
Project in-service date	06/2026
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	For PJM consideration

Project Components

1. Rebuild existing 230 kV transmission tower line

Transmission Line Upgrade Component

Component title	Rebuild existing 230 kV transmission tower line
-----------------	---

Project description	The project transmission scope of work includes the rebuilding of one (1) 230 kV circuit; 2303. Circuit 2303 shall be rebuilt on double circuit steel poles from the vicinity of Wheeler School Road north towards the Maryland / Pennsylvania State Line, approximately 1.4 miles.
Impacted transmission line	BGE - PPL Tie-line 2303 circuit
Point A	BGE Graceton substation
Point B	BGE - PPL tie
Point C	
Terrain description	The Project site is located in sparsely populated area of Harford county. 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	795 kcmil 30/19 ACSR "Mallard"
Hardware plan description	All existing wire and hardware will be replaced.
Tower line characteristics	Existing single circuit lattice towers are 85 years old and will be replaced.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	666.000000	797.000000
Winter (MVA)	767.000000	898.000000
Conductor size and type	1590 kcmil 54/19 ACSR "Falcon"	
Shield wire size and type	48-count fiber OPGW & 3/8" 7-#8 Alumoweld	

Rebuild line length	1.4 miles
Rebuild portion description	Entire 1.4 miles of single circuit tower line will be replaced with double circuit steel poles. Only one new circuit will be installed to replace and uprate existing 2303 circuit.
Right of way	All work will occur within the existing ROW. No expansion or new acquisition is required.
Construction responsibility	BGE
Benefits/Comments	For PJM consideration

Component Cost Details - In Current Year \$

Engineering & design	For PJM consideration
Permitting / routing / siting	For PJM consideration
ROW / land acquisition	For PJM consideration
Materials & equipment	For PJM consideration
Construction & commissioning	For PJM consideration
Construction management	For PJM consideration
Overheads & miscellaneous costs	For PJM consideration
Contingency	For PJM consideration
Total component cost	\$8,404,939.00
Component cost (in-service year)	\$8,522,041.00

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-W623	208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W1-GD-S1042	208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Summer Gen Deliv	Included
2022W1-GD-W41	208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter Gen Deliv	Included
2022W1-GD-W55	208069	PPL-BGE TIE	220964	GRACETON	1	230	229/232	Winter 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