

Chichester 230kV Bus Reconfiguration

General Information

Proposing entity name	Company confidential and proprietary information.
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Company confidential and proprietary information.
Company proposal ID	Company confidential and proprietary information.
PJM Proposal ID	848
Project title	Chichester 230kV Bus Reconfiguration
Project description	Add 230kV bus tie breakers to Chichester substation and modify line terminations.
Email	Proprietary Information
Project in-service date	06/2031
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Company confidential and proprietary information.

Project Components

1. Chichester 230kV Substation Reconfiguration

Substation Upgrade Component

Component title	Chichester 230kV Substation Reconfiguration
Project description	Company confidential and proprietary information.
Substation name	Chichester

Substation zone	PECO
Substation upgrade scope	Install two new 230kV 4000 Amp 63kA circuit breakers #125 and #215 on the Chichester 230kV bus to create a second double-bus tie and third 230kV bus. Relocate existing 230kV CB #125 to the other side of existing CB #215. Install new CCVTs for the new Bus #2. Swap the 220-04 Chichester-Foulk and 220-36 Chichester-Eddystone line terminal positions at Chichester substation. At the existing 230kV 220-04 line terminal position at Chichester substation, PECO to replace two 230kV disconnect switches #43 and #47, three meters (Watt/Var/Amp), four relays (CBF) at existing CB #045 and wave traps.
Transformer Information	
None	
New equipment description	Project will establish new 230kV double-bus ties #125-#215 and #235-#325 with the following ratings: · Summer Normal Rating: 1301 MVA · Summer Emergency Rating: 1622 MVA · Summer Load Dump Rating: 1785 MVA · Winter Normal Rating: 1604 MVA · Winter Emergency Rating: 1861 MVA · Winter Load Dump Rating: 1997 MVA · Light Load Normal Rating: 1543 MVA · Light Load Emergency Rating: 1811 MVA · Light Load Load Dump Rating: 1953 MVA At the existing 230kV 220-04 line terminal position at Chichester substation, work scope will upgrade equipment to maintain the following existing facility ratings for the 220-36 Chichester-Eddystone line: · Summer Normal Rating: 1245 MVA · Summer Emergency Rating: 1387 MVA · Summer Load Dump Rating: 1586 MVA · Winter Normal Rating: 1476 MVA · Winter Emergency Rating: 1601 MVA · Winter Load Dump Rating: 1780 MVA · Light Load Normal Rating: 1427 MVA · Light Load Emergency Rating: 1555 MVA · Light Load Load Dump Rating: 1738 MVA At the existing 230kV 220-36 line terminal position at Chichester substation, no additional work is required to maintain existing facility ratings for the 220-04 Chichester-Foulk line: · Summer Normal Rating: 927 MVA · Summer Emergency Rating: 927 MVA · Summer Load Dump Rating: 956 MVA · Winter Normal Rating: 927 MVA · Winter Emergency Rating: 927 MVA · Winter Load Dump Rating: 956 MVA · Light Load Normal Rating: 927 MVA · Light Load Emergency Rating: 927 MVA · Light Load Load Dump Rating: 956 MVA
Substation assumptions	Assessment of the existing Chichester bus configuration determined there is adequate space to add the additional equipment and perform the line terminal changes as described in the project. It is assumed that the scope is limited to the equipment in the scope. It is assumed that no expansion of the substation is required.
Real-estate description	N/A
Construction responsibility	Company confidential and proprietary information.
Benefits/Comments	Company confidential and proprietary information.

Component Cost Details - In Current Year \$

Engineering & design	detailed cost
Permitting / routing / siting	detailed cost
ROW / land acquisition	detailed cost
Materials & equipment	detailed cost
Construction & commissioning	detailed cost
Construction management	detailed cost
Overheads & miscellaneous costs	detailed cost
Contingency	detailed cost
Total component cost	\$6,820,000.00
Component cost (in-service year)	\$7,551,683.47

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
2026W1-GD-S302	213559	DELCOTAP	228401	MCKLTON	1	230	230/234	Summer Gen Deliv	Included
2026W1-GD-S560	213559	DELCOTAP	228401	MCKLTON	1	230	230/234	Summer Gen Deliv	Included
2026W1-GD-S304	213559	DELCOTAP	228401	MCKLTON	1	230	230/234	Summer Gen Deliv	Included
2026W1-GD-S303	213559	DELCOTAP	228401	MCKLTON	1	230	230/234	Summer Gen Deliv	Included
2026W1-GD-S305	213559	DELCOTAP	228401	MCKLTON	1	230	230/234	Summer Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date	01/2027
Construction start date	11/2030
Project Duration (In Months)	53

Additional Comments

Please contact Exelon Transmission Planning with any questions concerning the proposal.