

Waldwick Area Voltage Upgrades

General Information

Proposing entity name	Confidential
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Confidential
Company proposal ID	Confidential
PJM Proposal ID	107
Project title	Waldwick Area Voltage Upgrades
Project description	Replace existing 230kV 50MVAR fixed shunt reactor with a 230kV 150MVAR variable shunt reactor. Replace existing 345kV 100MVAR fixed shunt reactor with a 345kV 150MVAR variable shunt reactor.
Email	Confidential
Project in-service date	04/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Confidential

Project Components

1. Upgrade Waldwick Shunt Reactors

Substation Upgrade Component

Component title	Upgrade Waldwick Shunt Reactors
Project description	Confidential

Substation name	Waldwick Switch
Substation zone	PSEG
Substation upgrade scope	Replace existing 230kV 50MVAR fixed shunt reactor with a 230kV 150MVAR variable shunt reactor. Replace existing 345kV 100MVAR fixed shunt reactor with a 345kV 150MVAR variable shunt reactor.

Transformer Information

None	
New equipment description	One (1) new 230kV 150MVAR variable shunt reactor. One (1) new 345kV 150MVAR variable shunt reactor.
Substation assumptions	This proposal assumes that all necessary outages will be available; existing AC, DC, and telecom. Systems will accommodate the new equipment; geotechnical data is available; ground grid upgrades will not be needed; the existing cable trench has space for the new cables; the existing control house has space for the new relay panels.
Real-estate description	No new property is required, solution fits in existing Waldwick Station.
Construction responsibility	Confidential
Benefits/Comments	Confidential

Component Cost Details - In Current Year \$

Engineering & design	Confidential
Permitting / routing / siting	Confidential
ROW / land acquisition	Confidential
Materials & equipment	Confidential
Construction & commissioning	Confidential
Construction management	Confidential
Overheads & miscellaneous costs	Confidential
Contingency	Confidential

Total component cost \$29,633,401.00

Component cost (in-service year) \$33,431,041.00

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
2023W1-N1-LLVM237046	237046	FAIRLAWN	217046	FAIRLAWN	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM247046	247046	FAIRLAWN	217046	FAIRLAWN	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM257046	257046	FAIRLAWN	217046	FAIRLAWN	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM287053	287053	HAWTHORN_1	217053	HAWTHORN_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM297053	297053	HAWTHORN_1	217053	HAWTHORN_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM307053	307053	HAWTHORN_1	217053	HAWTHORN_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM317053	317053	HAWTHORN_1	217053	HAWTHORN_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM327053	327053	HAWTHORN_1	217053	HAWTHORN_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM247311	247311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM257311	257311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM267311	267311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM277311	277311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM287311	287311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM297311	297311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM207311	207311	HAWTHORN_2	217311	HAWTHORN_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM217313	217313	HINCHAV_1	217313	HINCHAV_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM207313	207313	HINCHAV_1	217313	HINCHAV_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM217313	217313	HINCHAV_1	217313	HINCHAV_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM227313	227313	HINCHAV_1	217313	HINCHAV_1	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM237313	237313	HINCHAV_1	217313	HINCHAV_1	1	230	231	Light Load Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2023W1-N1-LLVM2	17314	HINCHAV_2	217314	HINCHAV_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17314	HINCHAV_2	217314	HINCHAV_2	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17063	WALDWICK	217063	WALDWICK	1	345	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	17064	WALDWICK_E	217064	WALDWICK_E	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	16971	WALDWICK_O	216971	WALDWICK_O	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	16971	WALDWICK_O	216971	WALDWICK_O	1	230	231	Light Load Voltage Magnitude	Included
2023W1-N1-LLVM2	16971	WALDWICK_O	216971	WALDWICK_O	1	230	231	Light Load Voltage Magnitude	Included

New Flowgates

Confidential

Financial Information

Capital spend start date 03/2024

Construction start date 01/2027

Project Duration (In Months) 49

Additional Comments

None