

Lackawanna - Paupack 230 kV line reconductor

General Information

Proposing entity name	Proprietary Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Proprietary Information
Company proposal ID	Proprietary Information
PJM Proposal ID	479
Project title	Lackawanna - Paupack 230 kV line reconductor
Project description	Reconduct the first 0.4 miles of the Lackawanna - Paupack 230 kV line leaving Lackawanna Substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. Reconduct the first 0.9 miles of the Lackawanna - Paupack 230 kV line leaving Paupack 230 kV Substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. For the remainder of the existing Lackawanna - Paupack line (20 miles between the two segments noted above), add two additional 1590 45/7 ACSR sub-conductors to each phase of the line to make the line triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE.
Email	Proprietary Information
Project in-service date	12/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Proprietary Information

Project Components

1. Lackawanna - Paupack 230 kV line reconductor

Transmission Line Upgrade Component

Component title	Lackawanna - Paupack 230 kV line reconductor	
Project description	Proprietary Information	
Impacted transmission line	Lackawanna - Paupack 230 kV line	
Point A	Lackawanna	
Point B	Paupack	
Point C		
Terrain description	Existing transmission corridor. Mountainous terrain.	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	1590 54/19 ACSR	
Hardware plan description	New hardware will be installed with the new conductors.	
Tower line characteristics	Double circuit 500 kV structures installed as part of the Susquehanna - Roseland 500 kV project in 2015. One side of the structure is operated at 230 kV.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	916.000000	1075.000000
Winter (MVA)	995.900000	1115.400000
Conductor size and type	1590 54/19 ACSR and 1590 ACSS	
Shield wire size and type	dual 144 count OPGW	

Rebuild line length	21.3
Rebuild portion description	Reconduct the first 0.4 miles of the Lackawanna - Paupack 230 kV line leaving Lackawanna Substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. Reconduct the first 0.9 miles of the Lackawanna - Paupack 230 kV line leaving Paupack 230 kV Substation with 1590 54/19 ACSS with a rating of 916 MVA SN, 1075 MVA SE, 995.9 MVA WN, and 1115.4 MVA WE. For the remainder of the existing Lackawanna - Paupack line (20 miles between the two segments noted above), add two additional 1590 45/7 ACSR sub-conductors to each phase of the line to make the line triple-bundle 1590 45/7 ACSR with a rating of 1645 MVA SN, 2130 MVA SE, 2079 MVA WN, and 2463 MVA WE.
Right of way	Work will take place in existing ROW. No expansion is required.
Construction responsibility	Proprietary Information
Benefits/Comments	Proprietary Information
Component Cost Details - In Current Year \$	
Engineering & design	Proprietary Information
Permitting / routing / siting	Proprietary Information
ROW / land acquisition	Proprietary Information
Materials & equipment	Proprietary Information
Construction & commissioning	Proprietary Information
Construction management	Proprietary Information
Overheads & miscellaneous costs	Proprietary Information
Contingency	Proprietary Information
Total component cost	\$47,695,000.00
Component cost (in-service year)	\$51,722,673.92

Congestion Drivers

None

Existing Flowgates

None

New Flowgates

Proprietary Information

Financial Information

Capital spend start date 05/2025

Construction start date 09/2027

Project Duration (In Months) 43

Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

Components covered by cost containment

1. Lackawanna - Paupack 230 kV line reconductor - PPL

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting Yes

ROW / land acquisition No

Materials & equipment Yes

Construction & commissioning Yes

Construction management	Yes
Overheads & miscellaneous costs	No
Taxes	No
AFUDC	No
Escalation	No
Additional Information	Proprietary Information
Is the proposer offering a binding cap on ROE?	No
Is the proposer offering a Debt to Equity Ratio cap?	Proprietary Information

Additional Comments

None