

# Roseland - Livingston & Roseland - Laurel 230kV Reconductoring

## 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	656
Project title	Roseland - Livingston & Roseland - Laurel 230kV Reconductoring
Project description	Thermal overloads have been identified on the 230kV overhead circuits from Roseland to Livingston and from Roseland to Laurel. This proposal will upgrade both lines by replacing their conductors with ones that have a higher MVA capacity to address these thermal violations.
Email	Confidential
Project in-service date	03/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Confidential

## Project Components

1. Roseland - Livingston 230kV
2. Roseland - Laurel Avenue 230kV

### Transmission Line Upgrade Component

Component title	Roseland - Livingston 230kV
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Project description	Confidential	
Impacted transmission line	Roseland - Livingston 230kV	
Point A	Roseland	
Point B	Livingston	
Point C		
Terrain description	Rolling terrain in suburban New Jersey	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	1590 kcmil ACSR "Falcon" conductor	
Hardware plan description	New hardware will be used for the reconductoring. Existing OPGW hardware will remain as-is.	
Tower line characteristics	The existing structures on this circuit were installed in 2013. There is no need for structural repair or reinforcement to re-conductor the line.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	934.000000	1080.000000
Winter (MVA)	999.000000	1143.000000
Conductor size and type	1590 kcmil ACSS "Falcon"	
Shield wire size and type	N/A - existing shield wire to remain	
Rebuild line length	1 mile	
Rebuild portion description	No portion of the line will be rebuilt. The existing structures will remain as-is	

Right of way	No new ROW is needed for reconductoring the circuit.
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	\$4,873,397.00
Component cost (in-service year)	\$5,209,309.11
<b>Transmission Line Upgrade Component</b>	
Component title	Roseland - Laurel Avenue 230kV
Project description	Confidential
Impacted transmission line	Roseland - Laurel 230kV
Point A	Roseland
Point B	Laurel
Point C	
Terrain description	Rolling terrain in suburban New Jersey

## Existing Line Physical Characteristics

Operating voltage	230
Conductor size and type	1590 kcmil ACSR "Falcon" conductor
Hardware plan description	New hardware will be used for the reconductoring. Existing OPGW hardware will remain as-is.
Tower line characteristics	The existing structures on this circuit were installed in 2013. There is no need for structural repair or reinforcement to re-conductor the line.

## Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	934.000000	1080.000000
Winter (MVA)	999.000000	1143.000000
Conductor size and type	1590 kcmil ACSS "Falcon"	
Shield wire size and type	N/A	
Rebuild line length	2.36 miles	
Rebuild portion description	No portion of the line will be rebuilt. The existing structures will remain as-is	
Right of way	No new ROW is needed for reconductoring the circuit.	
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	\$5,058,254.00
Component cost (in-service year)	\$5,406,910.96

## 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
2025W1-N11-ST158	216950	ROSELAND	217997	LIVINGSTON	1	230	231	N-1-1 Thermal	Included
2025W1-N11-ST159	216950	ROSELAND	217997	LIVINGSTON	1	230	231	N-1-1 Thermal	Included
2025W1-IPD-S188	216950	ROSELAND	217997	LIVINGSTON	1	230	231	Individual Plant Deliverability	Included
2025W1-N11-ST160	216950	ROSELAND	216973	LAUREL_J	1	230	231	N-1-1 Thermal	Included
2025W1-N11-ST161	216950	ROSELAND	216973	LAUREL_J	1	230	231	N-1-1 Thermal	Included
2025W1-N11-ST156	216950	ROSELAND	217997	LIVINGSTON	1	230	231	N-1-1 Thermal	Included
2025W1-IPD-S185	216950	ROSELAND	217997	LIVINGSTON	1	230	231	Individual Plant Deliverability	Included
2025W1-N11-ST157	216950	ROSELAND	217997	LIVINGSTON	1	230	231	N-1-1 Thermal	Included

## New Flowgates

Confidential

## Financial Information

Capital spend start date	03/2026
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Construction start date	01/2028
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Project Duration (In Months)	24
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## Additional Comments

None