

# South Jersey Grid Upgrade

## General Information

Proposing entity name	PSEG
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	
Company proposal ID	SJGU
PJM Proposal ID	894
Project title	South Jersey Grid Upgrade
Project description	Install a third submarine 230kV conductor underneath the Delaware River and connect to the existing OH lines at both sides of the river.
Email	lauren.thomas@pseg.com
Project in-service date	01/2028
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	

## Project Components

1. Hope Creek to Silver Run (Outside Plant)

### Transmission Line Upgrade Component

Component title	Hope Creek to Silver Run (Outside Plant)
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Project description	- New 230kV Submarine cable crossing located below the Delaware River paralleling the existing submarine portion of the Hope Creek – Silver Run 230kV circuit. -Installation of two (2) new cable riser structures to accommodate the connection of 2.6 mile new submarine section crossing between New Jersey and Delaware. -Install two (2) double circuit structures on each side of the Delaware River after the new riser structures to facilitate the pairing of the circuit with the existing Hope Creek – Silver Run 230kV circuit.
Impacted transmission line	Existing Hope Creek to Silver Run 230kV circuit
Point A	Hope Creek 230kV
Point B	Silver Run 230kV
Point C	
Terrain description	Flat terrain and UG crossing of the Delaware River

**Existing Line Physical Characteristics**

Operating voltage	230kV
Conductor size and type	2500kcmil Cu XLPE submarine cable
Hardware plan description	230 kV XPLE CU Cable 2500 kcmil submarine cable, cable terminations for UG water crossing and OH structures to connect to existing 230 kV lines. See Appendix A.2 for the complete Bill of Materials.
Tower line characteristics	The OH portion includes steel monopoles and riser structures on each side of the Delaware River to connect to the existing OH line between Hope Creek and Silver Run

**Proposed Line Characteristics**

	<b>Designed</b>	<b>Operating</b>
Voltage (kV)	230.000000	230.000000
	<b>Normal ratings</b>	<b>Emergency ratings</b>
Summer (MVA)	470.000000	575.000000
Winter (MVA)	470.000000	575.000000

Conductor size and type	2500kcmil Cu XLPE submarine cable per phase
Shield wire size and type	Assume existing communication is adequate
Rebuild line length	2.6 miles
Rebuild portion description	Install a new 230kV XLPE UG conductor approximately 2.6 miles long, beneath the Delaware River. Connect the new UG to existing OH lines on both ends via new risers
Right of way	Property may be needed to setup for jet plow as well as land transitions on both ends.
Construction responsibility	PSEG
Benefits/Comments	

**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	\$71,924,163.00
Component cost (in-service year)	\$79,341,081.00

**Congestion Drivers**

None

## Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
28-GD-W21	232012	HOPE CREEK	232014	LSPWR CABLE	1	230	225	Gen Deliv (winter)	Included
28-GD-W22	232012	HOPE CREEK	232014	LSPWR CABLE	2	230	225	Gen Deliv (winter)	Included
28-GD-W23	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-W124	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-W125	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
35-GD-W22	232012	HOPE CREEK	232014	LSPWR CABLE	1	230/230	225/225	Gen Deliv (winter)	Included
35-GD-W24	232014	LSPWR CABLE	232013	SILVER RUN	1	230/230	225/225	Gen Deliv (winter)	Included
35-GD-W23	232012	HOPE CREEK	232014	LSPWR CABLE	2	230/230	225/225	Gen Deliv (winter)	Included
28-GD-S2-W9	232012	HOPE CREEK	232014	LSPWR CABLE	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W9	232012	HOPE CREEK	232014	LSPWR CABLE	2	230	225	Gen Deliv (winter)	Included
28-GD-S2-W9	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W1	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W1	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
35-GD-S2-W1	232012	HOPE CREEK	232014	LSPWR CABLE	1	230/230	225/225	Gen Deliv (winter)	Included
35-GD-S2-W1	232012	HOPE CREEK	232014	LSPWR CABLE	2	230/230	225/225	Gen Deliv (winter)	Included
35-GD-S2-W1	232014	LSPWR CABLE	232013	SILVER RUN	1	230/230	225/225	Gen Deliv (winter)	Included

## New Flowgates

None

## Financial Information

Capital spend start date 05/2024

Construction start date 07/2026

Project Duration (In Months) 44

## **Additional Comments**

None