

Silver Run Upgrade

General Information

Proposing entity name	CONFIDENTIAL INFORMATION
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	CONFIDENTIAL INFORMATION
Company proposal ID	CONFIDENTIAL INFORMATION
PJM Proposal ID	229
Project title	Silver Run Upgrade
Project description	The Silver Run Upgrade project includes adding a third set of submarine cables, rerating the overhead segment, and upgrading terminal equipment to achieve a higher rating for the Silver Run - Hope Creek 230kV Transmission Line.
Email	CONFIDENTIAL INFORMATION
Project in-service date	05/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	CONFIDENTIAL INFORMATION

Project Components

1. Transmission Line Upgrade
2. Silver Run Substation Upgrade

Transmission Line Upgrade Component

Component title	Transmission Line Upgrade
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Project description

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Impacted transmission line

Silver Run - Hope Creek

Point A

Silver Run

Point B

Hope Creek

Point C

Terrain description

The project will mainly consist of submarine cable crossing under the Delaware River. Two transition structures will be built in the existing ROW.

Existing Line Physical Characteristics

Operating voltage

230

Conductor size and type

1033.5 Curlew ACSS & 3500 kcmil Copper 230kV HVAC Submarine Power Cable

Hardware plan description

The proposer will match the existing hardware and submarine cable utilized.

Tower line characteristics

Two new structures will be tubular steel monopoles that will be used to transition from submarine to overhead. The structures will be built under the existing line and jumpers will be used to connect to the overhead line.

Proposed Line Characteristics

Designed

Operating

Voltage (kV)

230.000000

230.000000

Normal ratings

Emergency ratings

Summer (MVA)

1364.000000

1614.000000

Winter (MVA)

1364.000000

1614.000000

Conductor size and type

1033.5 Curlew ACSS & 3500 kcmil Copper 230kV HVAC Submarine Power Cable

Shield wire size and type

N/A

Rebuild line length

2 miles of new submarine cable that parallels the existing cable

Rebuild portion description	None of the line will be re-built.
Right of way	New ROW may be needed under the Delaware River. No new ROW will be needed for the new transition structures.
Construction responsibility	CONFIDENTIAL INFORMATION
Benefits/Comments	CONFIDENTIAL INFORMATION
Component Cost Details - In Current Year \$	
Engineering & design	CONFIDENTIAL INFORMATION
Permitting / routing / siting	CONFIDENTIAL INFORMATION
ROW / land acquisition	CONFIDENTIAL INFORMATION
Materials & equipment	CONFIDENTIAL INFORMATION
Construction & commissioning	CONFIDENTIAL INFORMATION
Construction management	CONFIDENTIAL INFORMATION
Overheads & miscellaneous costs	CONFIDENTIAL INFORMATION
Contingency	CONFIDENTIAL INFORMATION
Total component cost	\$60,198,526.00
Component cost (in-service year)	\$72,737,048.00
Substation Upgrade Component	
Component title	Silver Run Substation Upgrade
Project description	CONFIDENTIAL INFORMATION
Substation name	Silver Run
Substation zone	225
Substation upgrade scope	The Silver Run Substation Upgrade will consist of upgrading the line terminal equipment to 5,000 amps.

Transformer Information

None

New equipment description	230kV terminal equipment rated for 5,000 amps.
Substation assumptions	The substation can be equipped with the higher rated equipment.
Real-estate description	The current substation extents should be able to accommodate the terminal equipment upgrades.
Construction responsibility	CONFIDENTIAL INFORMATION
Benefits/Comments	CONFIDENTIAL INFORMATION

Component Cost Details - In Current Year \$

Engineering & design	CONFIDENTIAL INFORMATION
Permitting / routing / siting	CONFIDENTIAL INFORMATION
ROW / land acquisition	CONFIDENTIAL INFORMATION
Materials & equipment	CONFIDENTIAL INFORMATION
Construction & commissioning	CONFIDENTIAL INFORMATION
Construction management	CONFIDENTIAL INFORMATION
Overheads & miscellaneous costs	CONFIDENTIAL INFORMATION
Contingency	CONFIDENTIAL INFORMATION
Total component cost	\$1,000,000.00
Component cost (in-service year)	\$1,209,248.00

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-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
35-GD-W22	232012	HOPE CREEK	232014	LSPWR CABLE	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
35-GD-S2-W10	232012	HOPE CREEK	232014	LSPWR CABLE	1	230/230	225/225	Gen Deliv (winter)	Included
35-GD-S2-W11	232012	HOPE CREEK	232014	LSPWR CABLE	2	230/230	225/225	Gen Deliv (winter)	Included
28-GD-S2-W9	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W12	232014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W13	232014	LSPWR CABLE	232013	SILVER RUN	1	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-S2-W12	232014	LSPWR CABLE	232013	SILVER RUN	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

New Flowgates

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Financial Information

Capital spend start date 01/2024

Construction start date 01/2026

Project Duration (In Months) 52

Additional Comments

Silver Run Electric's PJM submittal tool is not working. Central Transmission is submitting this proposal on behalf of Silver Run Electric in order to meet the window submission deadline. The wire for this proposal was submit by Silver Run Electric proposal ID 745.