

# Pocono 80 MVar 230 kV capacitor bank

## 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	850
Project title	Pocono 80 MVar 230 kV capacitor bank
Project description	Install one 80 MVar 230 kV capacitor bank at Pocono 230kV Substation. Connect the capacitor bank to the North 230 kV bus. Install one 230 kV IPO (Independent Pole Operation) breaker for the capacitor bank. Upgrade relay protection and control as required to support capacitor bank installation.
Email	Proprietary Information
Project in-service date	10/2027
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. Pocono 80 MVar 230 kV capacitor bank

### Substation Upgrade Component

Component title	Pocono 80 MVar 230 kV capacitor bank
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Project description	Proprietary Information
Substation name	Pocono Substation
Substation zone	PPL
Substation upgrade scope	Install one 80 MVar 230 kV capacitor bank at Pocono 230kV Substation. Connect the capacitor bank to the North 230 kV bus. Install one 230 kV IPO (Independent Pole Operation) breaker for the capacitor bank. Upgrade relay protection and control as required to support capacitor bank installation.
<b>Transformer Information</b>	
None	
New equipment description	One 80 MVar 230 kV capacitor bank One 230 kV IPO breaker
Substation assumptions	No substation expansion anticipated. Proposer owns necessary footprint to accommodate this project
Real-estate description	No substation expansion anticipated. Proposer owns necessary footprint to accommodate this project.
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 \$4,925,000.00

Component cost (in-service year) \$5,086,447.89

## 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
2024W1-N11-WVD13	208092	ACAH	208092	ACAH	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD14	208092	ACAH	208092	ACAH	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD15	208092	ACAH	208092	ACAH	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVM15	208092	ACAH	208092	ACAH	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM9	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM18	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM2	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM3	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVD1	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD7	207918	BLGR TR1	207918	BLGR TR1	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD2	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD3	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD6	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVM4	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM5	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM19	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM8	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM17	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM1	207919	BLGR TR2	207919	BLGR TR2	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM11	207930	BUSH	207930	BUSH	1	230	229	Winter N-1-1 Voltage Magnitude	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-N11-WVD8	207930	BUSH	207930	BUSH	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVM6	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM7	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM10	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVD9	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD4	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD5	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD17	208049	PAUP	208049	PAUP	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD10	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD11	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD12	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVD16	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Drop	Included
2024W1-N11-WVM16	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM12	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM13	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Magnitude	Included
2024W1-N11-WVM14	208046	POCO	208046	POCO	1	230	229	Winter N-1-1 Voltage Magnitude	Included

## New Flowgates

Proprietary Information

## Financial Information

Capital spend start date 01/2025

Construction start date 02/2027

Project Duration (In Months) 33

## Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year)	Proprietary Information
<b>Components covered by cost containment</b>	
1. Pocono 80 MVar 230 kV capacitor bank - PPL	
<b>Cost elements covered by cost containment</b>	
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
<b>Additional Comments</b>	
None	