

# Wescosville 2nd 500/138 kV transformer

## 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	926
Project title	Wescosville 2nd 500/138 kV transformer
Project description	Install a 300 MVA 500/138kV transformer (T2) at Wescosville Substation. Install two new 4000 A GIS circuit breakers and four 4000 A MODs with associated equipment in bay four of the 500 kV GIS building. New bay equipment and transformer lead will have a minimum rating of 2983 MVA SN, 3507 MVA SE, 3757 MVA WN, and 4421 MVA WE. Tie 138 kV transformer lead into existing 138 kV Bus # 1. Utilize double bundle 1590 ACSR. Install one 3000 A circuit breaker, and one 3000 A MOD. At the completion of this project, normally close in the Wescosville 230/138 kV T5 transformer.
Email	Proprietary Information
Project in-service date	03/2029
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. Addition of a Wescosville 500/138 T2 transformer (2nd 500/138 kV transformer)

## Substation Upgrade Component

Component title	Addition of a Wescosville 500/138 T2 transformer (2nd 500/138 kV transformer)
Project description	Proprietary Information
Substation name	Wescosville Substation
Substation zone	PPL
Substation upgrade scope	Install a 300 MVA 500/138kV transformer (T2) at Wescosville Substation. Install two new 4000 A GIS circuit breakers and four 4000 A MODs with associated equipment in bay four of the 500 kV GIS building. New bay equipment and transformer lead will have a minimum rating of 2983 MVA SN, 3507 MVA SE, 3757 MVA WN, and 4421 MVA WE. Tie 138 kV transformer lead into existing 138 kV Bus # 1. Utilize double bundle 1590 ACSR. Install one 3000 A circuit breaker, and one 3000 A MOD. At the completion of this project, normally close in the Wescosville 230/138 kV T5 transformer.

## Transformer Information

	Name	Capacity (MVA)		
Transformer	Wescosville 500/138 kV T2	300 MVA		
	High Side	Low Side	Tertiary	
Voltage (kV)	500	138		
New equipment description	(1) A 300 MVA 500/138kV transformer (T2) (2) Two new 4000 A GIS circuit breakers (3) Four 4000 A GIS MODs (4) New bay equipment and transformer lead with a minimum rating of 2983 MVA SN, 3507 MVA SE, 3757 MVA WN, and 4421 MVA WE (5) 138 kV transformer lead utilizing double bundle 1590 ACSR (6) One 3000 A AIS circuit breaker (7) One 3000 A AIS MOD			
Substation assumptions	Based on the proposed solution which will occur both within an existing substation and likely require an expansion of the current fence to accommodate the full project scope, Proposer anticipates needing to apply for a General Permit in compliance with the National Pollutant Discharge Elimination System as administered by the Pennsylvania Department of Environmental Protection. At this time Proposer does not believe additional environmental permits or compliance will be required			
Real-estate description	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	\$36,825,000.00
Component cost (in-service year)	\$40,276,759.32

## Congestion Drivers

None

## Existing Flowgates

None

## New Flowgates

Proprietary Information

## Financial Information

Capital spend start date 03/2025

Construction start date 09/2028

Project Duration (In Months) 48

## Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

### Components covered by cost containment

1. Addition of a Wescosville 500/138 T2 transformer (2nd 500/138 kV transformer) - 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