

Kelayres - Tresckow 230 kV # 3 line

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	333
Project title	Kelayres - Tresckow 230 kV # 3 line
Project description	Construct a new 3-mile Kelayres - Tresckow 230 kV # 3 line using double-bundle 1590 ACSR 45/7 conductor and terminate in Bay 8 of the Tresckow 230 kV Substation (bay already fully populated with breakers in existing Supplemental Projects). Add one new 230 kV 4,000 amp circuit breaker and two 230 kV 4,000 amp MODs in 230 kV Bay 7 of the Kelayres 230 kV Substation.
Email	Proprietary Information
Project in-service date	05/2030
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. Kelayres 230 kV yard expansion
2. Kelayres - Tresckow 230 kV # 3 line

Substation Upgrade Component

Component title	Kelayres 230 kV yard expansion
Project description	Proprietary Information
Substation name	Kelayres 500/230 kV Substation
Substation zone	PPL EU
Substation upgrade scope	Add one new 230 kV 4,000 amp circuit breaker and two 230 kV 4,000 amp MODs in the 230 kV Bay 7 of the Kelayres 230 kV Substation (Kelayres is Slykerville 230 kV Station from Supplemental Project s3549.2 renamed after the addition of the 500 kV yard in proposals 2025-W1-855 or 2025-W1-317).
Transformer Information	
None	
New equipment description	One 230 kV 4,000 amp circuit breaker Two 230 kV 4,000 amp MODs
Substation assumptions	Site secured under Supplemental Project s3549.2. Space available for expansion on existing site.
Real-estate description	No new real estate is required 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	\$2,928,359.00	
Component cost (in-service year)	\$3,276,854.27	
Greenfield Transmission Line Component		
Component title	Kelayres - Tresckow 230 kV # 3 line	
Project description	Proprietary Information	
Point A	Kelayres	
Point B	Tresckow	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1295.000000	1604.000000
Winter (MVA)	1492.000000	1805.000000
Conductor size and type	Double-bundle 1590 ACSR 45/7 conductor	
Nominal voltage	AC	
Nominal voltage	230	
Line construction type	Overhead	
General route description	Expansion of existing transmission corridor between Tresckow and Kelayres Substations.	
Terrain description	Inactive strip mining area with mountainous terrain and existing access routes to ROW.	
Right-of-way width by segment	Developer proposes a 150-foot ROW width for the new line immediately adjacent to existing transmission corridor.	
Electrical transmission infrastructure crossings	N/A	
Civil infrastructure/major waterway facility crossing plan	This line will cross Interstate 81. There are no other major crossings.	

Environmental impacts	An extensive review of the proposed project alignment found that this proposed scope will require a suite of permits and agency consultations that are common for transmission development in this region of Pennsylvania. Developer anticipates needing to apply for an Individual Permit in compliance with the National Pollutant Discharge Elimination System as administered by the Pennsylvania Department of Environmental Protection PA DEP. We anticipate 10-14 stream and wetland crossings that will necessitate permitting under the PADEP. Impacts to threatened and endangered species will center around federally and state protected tree roosting bat species due to vegetation clearing activities that will be mitigated by time-of-year tree clearing restrictions. Based on our extensive work experience in the area, we anticipate field work for cultural resources to review new ground disturbing activities and anticipate 3-5 rounds of consultations with the PA Historical & Museum Commission regarding project impacts to prehistoric and historic resources. Depending on the location of our final off-ROW temporary construction accesses the project may require 2-4 PennDOT temporary driveway accesses and at least 1 highway occupancy permit. Developer will also conduct a review of municipal ordinances to determine if any will apply to the project.
Tower characteristics	Developer proposes single circuit initial (future double circuit) 230 kV steel monopoles on concrete foundations.
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	\$17,197,862.74

Component cost (in-service year) \$19,244,529.09

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
2025W1-32GD-S128	207973	FRAC	208072	SIEG	1	230	229	2032 Generation Deliverability	Included

New Flowgates

Proprietary Information

Financial Information

Capital spend start date 02/2026

Construction start date 05/2028

Project Duration (In Months) 51

Cost Containment Commitment

Cost cap (in current year) Proprietary Information

Cost cap (in-service year) Proprietary Information

Components covered by cost containment

1. Kelayres 230 kV yard expansion - PPL
2. Kelayres - Tresckow 230 kV # 3 line - PPL

Cost elements covered by cost containment

Engineering & design Yes

Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes
Taxes	No
AFUDC	No
Escalation	Yes
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