Cedar Run 345kV Transmission Project

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	805
Project title	Cedar Run 345kV Transmission Project
Project description	The Cedar Run 345kV Transmission Project includes the construction of a new double circuit 345kV transmission line that connects the Davis Creek - Bloom 345kV transmission line and the RM Schafer - St. John 345kV transmission line.
Email	CONFIDENTIAL INFORMATION
Project in-service date	05/2026
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	CONFIDENTIAL INFORMATION

Project Components

1. Cedar Run 345kV Double Circuit Transmission Line
2. Davis Creek - Bloom 345kV Transmission Interconnect
3. RM Schafer - St. John 345kV Transmission Interconnect

Greenfield Transmission Line Component

Component title	Cedar Run 345kV Double Circuit Transmission Line
Project description	CONFIDENTIAL INFORMATION
Point A	Davis Creek / RM Schafer
Point B	Bloom / St. John
Point C	

	Normal ratings	**Emergency ratings**
Summer (MVA)	1314.000000	1592.000000
Winter (MVA)	1546.000000	1772.000000

Conductor size and type	Double Bundle 795 "Drake" ACSS MA3
Nominal voltage	AC
Nominal voltage	345
Line construction type	Overhead
General route description	See Routing Map attachment for information on the general project route. Most high-voltage transmission projects will require a state siting approval. To begin the siting approval process, Proposer plans to hold pre-application meetings with the regulatory agency to introduce Proposer and the Project, as well as confirm its understanding of the process. Shortly thereafter, Proposer will simultaneously begin collecting siting data and start its outreach efforts so that public siting input is incorporated at the earliest stages of the Project. Once the Proposer identifies a preferred site/route and at least one viable alternative site/route, Proposer will carry out the environmental and detailed engineering work described in the Site Selection/Routing Analysis section above in order to establish a highly- detailed Project plan to support the siting applications.
Terrain description	The terrain traversed by the project features generally flat agricultural fields and short segments of forested areas.
Right-of-way width by segment	The project will feature a right of way width of 150 feet for the entire project route.
Electrical transmission infrastructure crossings	The proposed line will cross over the Davis Creek - Burnham 345kV transmission line., The proposed line will cross under the Dumont - Wilton 765kV transmission line.
Civil infrastructure/major waterway facility crossing plan	No major civil infrastructure or major waterway crossings.

Environmental impacts	The proposed Project was sited to avoid and minimize impacts to wetlands or other areas of environmental concern based on GIS data. It is possible that the Project cannot avoid impacts to a limited number of wetlands and waterways. If so, Proposer expects the Project will be subject to regulation under certain permitting programs, namely Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and Section 401 of the Clean Water Act. Proposer will engage a qualified consultant to conduct a wetlands delineation of the selected site/route in order to establish the extent of proposed impacts and the need for specific permits from the state or U.S. Army Corps of Engineers. In addition to the permits described above, Proposer has identified other permits which may be required for the construction of the Project. Proposer considers these permits to be minor due to the more limited effort to prepare applications and the less intensive permitting processes which follow. These include permits related to airspace clearance, stormwater/erosion and sedimentation control, road crossings, and utility and railroad crossings.
Tower characteristics	The preliminary design for the double circuit transmission line utilizes tubular steel monopole structures with braced post insulators in a vertical configuration. The transmission line will utilize horizontally spaced double-bundle 795 kcmil "Drake" ACSS conductor and two optical groundwires.
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	$14,860,707.00
Component cost (in-service year)	$17,955,987.00

Transmission Line Upgrade Component

Component title	Davis Creek - Bloom 345kV Transmission Interconnect
Project description	CONFIDENTIAL INFORMATION
Impacted transmission line	Davis Creek - Bloom 345kV Transmission Line
Point A	Davis Creek
Point B	Bloom
Point C	
Terrain description	Flat/cleared agricultural field.

Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	N/A
Hardware plan description	N/A
Tower line characteristics	N/A

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	345.000000	345.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	1334.000000	1528.000000
Winter (MVA)	1334.000000	1528.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	

Rebuild line length	<0.25 miles
Rebuild portion description	The existing line will be broken and new deadend towers installed to facilitate the connection to the proposed double circuit transmission line.
Right of way	The existing right-of-way will be reused to facilitate the transmission interconnection facilities necessary to loop the lines into the proposed double circuit transmission line.
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	$1,150,000.00
Component cost (in-service year)	$1,400,198.60

Transmission Line Upgrade Component

Component title	RM Schafer - St. John 345kV Transmission Interconnect
Project description	CONFIDENTIAL INFORMATION
Impacted transmission line	RM Schafer - St. John
Point A	RM Schafer

Point B	St. John
Point C	
Terrain description	Flat agricultural fields.

Existing Line Physical Characteristics

Operating voltage	345
Conductor size and type	N/A
Hardware plan description	N/A
Tower line characteristics	N/A

Proposed Line Characteristics

	Designed	**Operating**
Voltage (kV)	345.000000	345.000000
	Normal ratings	**Emergency ratings**
Summer (MVA)	1314.000000	1392.000000
Winter (MVA)	1314.000000	1392.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	
Rebuild line length	<0.25 miles	
Rebuild portion description	The project will break the existing RM Schafer - St. John 345kV transmission line and new deadend towers will be installed to facilitate looping into the proposed double circuit transmission line.	
Right of way	The existing right-of-way will be reused to facilitate the transmission interconnection facilities necessary to loop the lines into the proposed double circuit transmission line.	
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	$690,000.00
Component cost (in-service year)	$840,119.20

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
GD-W2-W5	274750	CRETE EC ;BP	255112	17STJOHN	1	345	217/222	Winter Gen Deliv	Included
GD-W2-W6	274750	CRETE EC ;BP	255112	17STJOHN	1	345	217/222	Winter Gen Deliv	Included

New Flowgates

CONFIDENTIAL INFORMATION

Financial Information

Capital spend start date	03/2022
Construction start date	03/2024
Project Duration (In Months)	50

Cost Containment Commitment

Cost cap (in current year)	CONFIDENTIAL INFORMATION
Cost cap (in-service year)	CONFIDENTIAL INFORMATION

Components covered by cost containment

1. Cedar Run 345kV Double Circuit Transmission Line - Proposer

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	Yes
AFUDC	Yes
Escalation	No
Additional Information	CONFIDENTIAL INFORMATION

Is the proposer offering a binding cap on ROE?	No
Is the proposer offering a Debt to Equity Ratio cap?	CONFIDENTIAL INFORMATION

Additional Comments

None