Elwood - Joliet 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	663
Project title	Elwood - Joliet 345kV Transmission Project
Project description	The Elwood - Joliet 345kV transmission project consists of an approximately 4 mile double circuit 345kV transmission line from the Elwood Substation to the Joliet Substation.
Email	CONFIDENTIAL INFORMATION
Project in-service date	06/2028
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. Elwood - Joliet 345kV Double Circuit Transmission Line	
2. Joliet Substation Upgrade	
3. Elwood Substation Upgrade	
Greenfield Transmission Line Component	

Elwood - Joliet 345kV Double Circuit Transmission Line

Project description	CONFIDENTIAL INFORMATION					
Point A	Elwood					
Point B	Joliet					
Point C						
	Normal ratings	Emergency ratings				
Summer (MVA)	1792.000000	1792.000000				
Winter (MVA)	1792.000000	1792.000000				
Conductor size and type	Double Bundle 954 "Cardinal" ACSS/TW MA3					
Nominal voltage	AC					
Nominal voltage	345/345					
Line construction type	Overhead					
General route description	The route heads north out of the existing Elwood Substation and parallels existing roadways until the Des Plaines River. At this point the route parallels the existing Joliet - Dresden 138kV transmission line to cross the Des Plaines River and enter the Joliet Substation.					
Terrain description	The terrain traversed by the project features a generally flat industrial area with limited clearing required.					
Right-of-way width by segment	The project will feature a right of way width of 150 feet for the project route.					
Electrical transmission infrastructure crossings	and over the Elwood - Elwood Generating Station 345kV transmission line., over the double circui Tap - Joliet 138kV transmission line., The proposed transmission line crosses over the double circuit Dresden - Joliet 138kV transmission line					

Civil infrastructure/major waterway facility crossing plan	The proposer will secure crossing and encroachment permits, authorizations and agreements for existing linear infrastructure crossed by the project. The proposer will coordinate with easement holders including; municipal and county roads; oil and gas pipelines; transmission lines, and local distribution utilities (power, sewer, water, gas, fiber, etc.) to not interfere with existing easement rights crossed by the project. The proposer will obtain occupation agreements from municipal and county jurisdictions to place transmission facilities over municipal and county roads. The proposer plans to secure crossing agreements with existing oil and gas pipelines and transmission lines. The proposer will secure all necessary permits for major waterway crossings, specifically the Des Plaines River crossing.
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 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 attached via the pole shaft in a vertical configuration. The transmission line will utilize horizontally spaced double-bundle 954 kcmil "Cardinal" ACSS/TW MA3 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	\$15,123,150.00
Component cost (in-service year)	\$18,105,715.00
Substation Upgrade Component	
Component title	Joliet Substation Upgrade
Project description	CONFIDENTIAL INFORMATION
Substation name	Joliet Substation
Substation zone	1274
Substation upgrade scope	The substation scope will involve adding four (4) new 3000A, 345kV breakers. The "red" and "blue" portions of the substation will each be expanded to a ring bus configuration by adding two (2) breakers to each side to accommodate a line position for the new Elwood - Joliet transmission line.
Transformer Information	
None	
New equipment description	345kV Circuit Breakers (4): 3000A continuous current rating 345kV Circuit Breaker Isolation Disconnect Switches & associated jumper assemblies: 3000A continuous current rating, 1792 MVA rating, and a short circuit current rating of 63kA.
Substation assumptions	The substation can be expanded to the northwest to accommodate the new connections.
Real-estate description	ComEd owns the land northwest of the current substation that will be used for the expansion.
Construction responsibility	CONFIDENTIAL INFORMATION
Benefits/Comments	CONFIDENTIAL INFORMATION
Component Cost Details - In Current Year \$	
Engineering & design	CONFIDENTIAL INFORMATION

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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	\$10,258,406.00
Component cost (in-service year)	\$12,206,558.00
Substation Upgrade Component	
Component title	Elwood Substation Upgrade
Project description	CONFIDENTIAL INFORMATION
Substation name	Elwood Substation
Substation zone	1274
Substation upgrade scope	The substation scope will involve adding two (2) new 3000A, 345kV breakers. The "red" and "blue" portions of the substation will each be expanded by adding a breaker to create a new position in the existing ring bus configuration to accommodate a line position for the new Elwood - Joliet transmission line.
Transformer Information	
None	
New equipment description	345kV Circuit Breakers (2): 3000A continuous current rating 345kV Circuit Breaker Isolation Disconnect Switches & associated jumper assemblies: 3000A continuous current rating, 1792 MVA rating, and a short circuit current rating of 63kA.
Substation assumptions	New positions can be added to the substation to accommodate the new connections.

Real-estate description	No new land is necessary for the expansion.
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	\$3,989,381.00
Component cost (in-service year)	\$4,746,995.00

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W1-GD-S57	1270736	ELWOOD ; B	270770	GOODINGS ;4B	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S12	5 9 70737	ELWOOD ; R	270769	GOODINGS ;2R	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S54	8270737	ELWOOD ; R	270769	GOODINGS ;2R	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S19	0270737	ELWOOD ; R	270769	GOODINGS ;2R	1	345	222	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
2023W1-GD-S56	3270736	ELWOOD ; B	270770	GOODINGS ;4B	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S55	4270737	ELWOOD ; R	270769	GOODINGS ;2R	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S12	6 0 70736	ELWOOD ; B	270770	GOODINGS ;4B	1	345	222	Summer Gen Deliv	Included
2023W1-GD-S57	0270736	ELWOOD ; B	270770	GOODINGS ;4B	1	345	222	Summer Gen Deliv	Included

New Flowgates

CONFIDENTIAL INFORMATION

Financial Information

Capital spend start date	03/2024
Construction start date	06/2027
Project Duration (In Months)	51

Cost Containment Commitment

Cost cap (in current year)

CONFIDENTIAL INFORMATION

Cost cap (in-service year)

CONFIDENTIAL INFORMATION

Components covered by cost containment

1. Elwood - Joliet 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	Yes
Additional Information	CONFIDENTIAL INFORMATION
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	CONFIDENTIAL INFORMATION
Additional cost containment measures not covered above	CONFIDENTIAL INFORMATION
Additional Comments	

None