Reconductor 345 kV lines 11620 & 11622 Elwood to Goodings Grove

General Information

Proposing entity name	COMED
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Yes
Company proposal ID	For internal use only
PJM Proposal ID	35
Project title	Reconductor 345 kV lines 11620 & 11622 Elwood to Goodings Grove
Project description	Reconductor 18.7 miles of 345 kV lines 11620 & 11622 from Elwood to Goodings Grove with two conductor bundled 1033.5 ACSS conductor. Modify and replace towers as necessary to accommodate the higher mechanical loads of the bundled conductor.
Email	Removed personal information from public posting
Project in-service date	06/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	
Project Components	

1. Reconductor 345 kV lines 11620 & 11622 from Elwood to Goodings Grove

2. Upgrade Goodings Grove Circuit Breakers, Disconnects, and Associated Equipment

3. Upgrade Station Conductor at Elwood

Transmission Line Upgrade Component

Reconductor 345 kV lines 11620 & 11622 from E	Elwood to Goodings Grove				
Reconductor 345 kV lines 11620 & 11622 from Elwood to Goodings Grove with two conductor bundled 1033.5 kcmil ACSS conductor. Make necessary tower replacements and reinforcements support the heaver mechanical loads.					
11620 & 11622 Elwood to Goodings Grove					
Elwood					
Goodings Grove					
The lines are on existing ComEd right-of-way over flat terrain. Approximately half of the terrain is farmland with the rest bordering industrial, residential, and wooded lands. There are two interstate highway crossings.					
345					
2156 ACSR					
Existing hardware will be replaced.					
345 kV lines 11620 and 11622 are on a total of 104 structures ranging in age from 3 to 54 years. The structures are a combination of lattice and steel monopoles. These structures were inspected within the last 5 years with approximately 40 percent of them being replaced in 2020 to accommodate additional generation at TSS 900 Elwood. Based on these inspections, it was determined that 12 of the remaining structures will need to be replaced and 42 will require modifications to accommodate the larger conductor.					
Designed	Operating				
345.000000	345.000000				
Normal ratings	Emergency ratings				
1961.000000	2112.000000				
	 bundled 1033.5 kcmil ACSS conductor. Make ne support the heaver mechanical loads. 11620 & 11622 Elwood to Goodings Grove Elwood Goodings Grove The lines are on existing ComEd right-of-way ov farmland with the rest bordering industrial, residening highway crossings. 345 2156 ACSR Existing hardware will be replaced. 345 kV lines 11620 and 11622 are on a total of 12 The structures are a combination of lattice and s within the last 5 years with approximately 40 per accommodate additional generation at TSS 900 determined that 12 of the remaining structures with modifications to accommodate the larger conduction of lattice and s within the last 5 years with approximately 40 per accommodate additional generation at TSS 900 determined that 12 of the remaining structures with a 345.000000 Normal ratings 				

Winter (MVA)	2324.000000	2457.000000
Conductor size and type	Two conductor bundle of 1033.5 kcmil ACSS	
Shield wire size and type	The shield wire will not be replaced.	
Rebuild line length	18.7	
Rebuild portion description	All 18.7 miles of double circuit line will be recond	ductored on existing towers except as noted above.
Right of way	The existing right-of-way will be utilized.	
Construction responsibility	ComEd	
Benefits/Comments		
Component Cost Details - In Current Year \$		
Engineering & design	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Permitting / routing / siting	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
ROW / land acquisition	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Materials & equipment	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Construction & commissioning	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Construction management	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Overheads & miscellaneous costs	Detailed cost estimates broken down by categor redacted.	ry are considered proprietary information and are
Contingency	Detailed cost estimates broken down by catego redacted.	ry are considered proprietary information and are
Total component cost	\$56,177,088.00	

Component cost (in-service year)

\$65,124,642.00

Substation Upgrade Component	
Component title	Upgrade Goodings Grove Circuit Breakers, Disconnects, and Associated Equipment
Project description	Replace existing Goodings Grove line 11620 and 11622 circuit breakers with 3000A 345 kV 63 kA circuit breakers. Replace line disconnects with 3000A 345 kV Motor Operated Disconnects (MODs).
Substation name	Goodings Grove
Substation zone	ComEd
Substation upgrade scope	Replace existing Goodings Grove line 11620 and 11622 circuit breakers with 3000A 345 kV 63 kA circuit breakers. Replace line disconnects with 3000A 345 kV Motor Operated Disconnects (MODs).
Transformer Information	
None	
New equipment description	3000A or larger circuit breakers and MODs will be used. Circuit breaker ratings are expected to be 1961/2112 MVA summer normal/summer LTE and 2324/2457 MVA winter normal/winter LTE. 3000A MOD ratings are expected to be 2739/3105 MVA summer normal/summer LTE and 3191/3510 MVA winter normal/winter LTE.
Substation assumptions	Existing line circuit breakers replaced in place.
Real-estate description	
Construction responsibility	ComEd
Benefits/Comments	Confidential information
Component Cost Details - In Current Year \$	
Engineering & design	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Permitting / routing / siting	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
ROW / land acquisition	Detailed cost estimates broken down by category are considered proprietary information and are redacted.

Materials & equipment	Detailed cost estimates broken down by category are considered proprietary information and are
	redacted.
Construction & commissioning	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Construction management	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Overheads & miscellaneous costs	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Contingency	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Total component cost	\$5,163,654.00
Component cost (in-service year)	\$5,986,090.00
Substation Upgrade Component	
Component title	Upgrade Station Conductor at Elwood
Project description	Upgrade 2156 ACSR and 2-1113 jumpers and leads at Elwood
Substation name	Elwood
Substation zone	ComEd
Substation upgrade scope	Upgrade 2156 ACSR and 2-1113 jumpers and leads at Elwood that are included in the line ratings for 345 kV lines 11620 and 11622.
Transformer Information	
None	
New equipment description	New jumpers will be 2-1590 ACSR and rated higher than other line components.
Substation assumptions	All work will be in the existing substation.
Real-estate description	
Construction responsibility	ComEd

Benefits/	Comments
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Component Cost Details - In Current Year \$	
Engineering & design	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Permitting / routing / siting	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
ROW / land acquisition	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Materials & equipment	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Construction & commissioning	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Construction management	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Overheads & miscellaneous costs	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Contingency	Detailed cost estimates broken down by category are considered proprietary information and are redacted.
Total component cost	\$500,000.00
Component cost (in-service year)	\$579,637.00
Congestion Drivers	

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

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
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
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 2 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

None

Financial Information

Capital spend start date	01/2024
Construction start date	01/2026
Project Duration (In Months)	53

Additional Comments

None