

# Rebuild 345 kV double circuit Lines 94507 and 97008 Crete - Indiana

## 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 purposes only
PJM Proposal ID	977
Project title	Rebuild 345 kV double circuit Lines 94507 and 97008 Crete - Indiana
Project description	Rebuild 345 kV double circuit Lines 94507 and 97008 from Crete to Indiana with twin bundled 1277 ACAR conductor. Upgrade terminal equipment at St. John. This project is coordinated with and meant to be combined with NextEra Energy Transmission's (NEET) proposal to rebuild their portion of these lines in Indiana (submitted separately). Modeling files include combined rating and impedance information from both ComEd and NEET. Expected summer ratings for line 94507 are 1679/2058/2107/2280 N/E/STE/LD. Expected winter ratings for line 94507 are 2091/2381/2390/2390 N/E/STE/LD. Overall ratings for line 97008 will not change.
Email	For PJM contact information only
Project in-service date	12/2026
Tie-line impact	Yes
Interregional project	Yes
Interregional RTO name	MISO
Interregional cost allocation evaluation	No
Evaluated in interregional analysis under PJM Tariff or Operating Agreement provisions	No
Specify analysis and applicable Tariff or Operating Agreement provisions	

Is the proposer offering a binding cap on capital costs?

No

Additional benefits

Proprietary information

## Project Components

1. Rebuild 5 miles of 345 kV double circuit in Illinois with twin bundled 1277 ACAR conductor
2. Upgrade St. John Terminal Equipment

## Transmission Line Upgrade Component

Component title Rebuild 5 miles of 345 kV double circuit in Illinois with twin bundled 1277 ACAR conductor

Project description

Impacted transmission line 94507 & 97008

Point A Crete

Point B Illinois/Indiana border

Point C

Terrain description Existing right-of-way on mostly flat terrain through farmland and some residential areas.

## Existing Line Physical Characteristics

Operating voltage 345

Conductor size and type 1414 ACSR Paper Expanded

Hardware plan description New line hardware will be used.

Tower line characteristics The existing steel lattice structures were built in 1958.

## Proposed Line Characteristics

**Designed**

**Operating**

Voltage (kV)

345.000000

345.000000

	<b>Normal ratings</b>	<b>Emergency ratings</b>
Summer (MVA)	1679.000000	2058.000000
Winter (MVA)	2091.000000	2381.000000
Conductor size and type	Twin bundled 1277 ACAR	
Shield wire size and type	TBD	
Rebuild line length	5 Miles	
Rebuild portion description	5 miles of double circuit will be rebuilt using double circuit corten steel towers.	
Right of way	Existing ROW will be used.	
Construction responsibility	ComEd	
Benefits/Comments	Proprietary information	
<b>Component Cost Details - In Current Year \$</b>		
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	\$16,644,952.00	
Component cost (in-service year)	\$18,734,040.00	

## Substation Upgrade Component

Component title	Upgrade St. John Terminal Equipment
Project description	
Substation name	St. John
Substation zone	NIPSCO
Substation upgrade scope	Replace 345 kV line disconnect switch.

## Transformer Information

None	
New equipment description	New disconnect will be rated 4000A, 2390 MVA for all ratings.
Substation assumptions	N/A
Real-estate description	N/A
Construction responsibility	Proprietary information
Benefits/Comments	

## 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 \$485,392.00

Component cost (in-service year) \$546,313.00

## 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
GD-W2-259	270728	E FRANKFO; B	274750	CRETE EC ;BP	1	345	222	Winter Gen Deliv	Excluded
GD-W2-258	270728	E FRANKFO; B	274750	CRETE EC ;BP	1	345	222	Winter Gen Deliv	Excluded

## New Flowgates

None

## Financial Information

Capital spend start date 01/2023

Construction start date 01/2025

Project Duration (In Months) 47

## Additional Comments

None