

Install 2nd Circuit from Haumesser Road to H-452

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	972
Project title	Install 2nd Circuit from Haumesser Road to H-452
Project description	Rebuild 138 kV line 11323 as double circuit from Haumesser Road to the H-452 tap and string a second circuit. Expand Haumesser Road to a 4 circuit breaker ring bus. Add a circuit breaker at H-452 to create a second path between Haumesser Road and Waterman.
Email	Personal email removed
Project in-service date	12/2028
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Confidential information.

Project Components

1. Haumesser Road Expansion
2. Add 138 kV Circuit Breaker at H-452
3. Rebuild 3 miles of 138 kV Line 11323 from Haumesser Road to the H452 tap

Substation Upgrade Component

Component title	Haumesser Road Expansion
Project description	Expand Haumesser Road substation as a 4 circuit breaker ring bus
Substation name	Haumesser Road
Substation zone	ComEd
Substation upgrade scope	Expand Haumesser Road substation into a 4 circuit ring bus.
Transformer Information	
None	
New equipment description	New circuit breakers will be 3000A 63 kA with ratings of 747/805 MVA SN/SE and 886/936 MVA WN/WE.
Substation assumptions	Additional real estate will be required. Existing circuit breakers will be reused if possible.
Real-estate description	ComEd will work with adjacent land owners to acquire additional required real estate.
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	\$15,907,666.00
Component cost (in-service year)	\$18,441,345.00

Substation Upgrade Component

Component title	Add 138 kV Circuit Breaker at H-452
Project description	Add one 138 kV circuit breaker at H-452 to complete a three circuit breaker ring bus.
Substation name	H-452
Substation zone	ComEd
Substation upgrade scope	Add one 138 kV circuit breaker at H-452 to complete a three circuit breaker ring bus.

Transformer Information

None	
New equipment description	New circuit breaker will be 3000A and 63 kA, rated 747/805 MVA SN/SE and 886/936 MVA WN/WE.
Substation assumptions	H-452 was designed with space for this circuit breaker.
Real-estate description	The new circuit breaker fits in the existing station footprint.
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.
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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	\$1,981,349.00
Component cost (in-service year)	\$2,296,927.00

Transmission Line Upgrade Component

Component title	Rebuild 3 miles of 138 kV Line 11323 from Haumesser Road to the H452 tap
Project description	Rebuild 3 miles of 138 kV line 11323 from Haumesser Road to the H-452 tap with double circuit towers. Cut the H-452 tap over to the 2nd circuit from Haumesser Road. Both circuits to use twisted pair 556 ACSR Parakeet conductor.
Impacted transmission line	11323
Point A	Haumesser Road
Point B	West Dekalb Tap
Point C	H-452
Terrain description	Flat terrain through farmland.

Existing Line Physical Characteristics

Operating voltage	138
Conductor size and type	664 ACSS
Hardware plan description	New hardware will be used.
Tower line characteristics	Existing single circuit structures will be replaced with double circuit structures capable of supporting the new conductor.

Proposed Line Characteristics

	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	376.000000	483.000000
Winter (MVA)	452.000000	538.000000
Conductor size and type	Twisted pair 556 kcmil ACSR Parakeet	
Shield wire size and type	Shield wire size will be determined during engineering	
Rebuild line length	3 miles	
Rebuild portion description	Approximately 3 miles between Haumesser Road and the tap to H-452 will be rebuilt with double circuit towers.	
Right of way	Existing ComEd ROW will be used.	
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.
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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	\$10,218,737.00
Component cost (in-service year)	\$11,846,317.00

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
2023W1-GD-W229	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W945	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W1387	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W946	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W955	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W972	271680	HAUMESSER; B	272756	W DEKALB ;3T	1	138	222	Winter Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2023W1-GD-W268	272756	W DEKALB ;3T	271428	ESS H452 ;RT	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W139	272756	W DEKALB ;3T	271428	ESS H452 ;RT	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W988	272756	W DEKALB ;3T	271428	ESS H452 ;RT	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W993	272756	W DEKALB ;3T	271428	ESS H452 ;RT	1	138	222	Winter Gen Deliv	Included

New Flowgates

None

Financial Information

Capital spend start date 01/2024

Construction start date 01/2026

Project Duration (In Months) 59

Additional Comments

None