

Haumesser Road - Glidden

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	500
Project title	Haumesser Road - Glidden
Project description	Expand Haumesser Road substation. Extend the line 11323 West Dekalb tap 1.6 miles into Haumesser Road to create new line 9411 from Haumesser to West Dekalb. Expand West Dekalb to tie line 9411 from Haumesser Road to the existing line 8315 from Glidden. Reconductor/rebuild 10 miles of line 9411 and 6 miles of line 8315.
Email	Personal email address 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. Build Breaker-and-a-half Bus at West Dekalb
3. Reroute Line 11323 tap to West Dekalb into Haumesser Road
4. Rebuild Line 11323 tap to West Dekalb

5. Rebuild Line 8315 Glidden to West Dekalb

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. Land adjacent to the existing substation is farmland.
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	\$15,926,317.00
Component cost (in-service year)	\$18,462,966.00

Substation Upgrade Component

Component title	Build Breaker-and-a-half Bus at West Dekalb
Project description	Expand West Dekalb to tie Glidden-West Dekalb to Haumesser-West Dekalb.
Substation name	West Dekalb
Substation zone	ComEd
Substation upgrade scope	Build a seven circuit breaker breaker-and-a-half (BAAH) bus at West Dekalb to tie Glidden-West Dekalb to Haumesser-West Dekalb.

Transformer Information

None	
New equipment description	New circuit breakers will be 3000A 63 kA.
Substation assumptions	Additional property will be required to build the new BAAH bus.
Real-estate description	ComEd will work with adjacent land owners to acquire the required property.
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	\$20,000,000.00
Component cost (in-service year)	\$23,185,481.00

Greenfield Transmission Line Component

Component title	Reroute Line 11323 tap to West Dekalb into Haumesser Road
Project description	Cut the tap from 138 kV line 11323 to West Dekalb and extend for 1.6 miles into Haumesser Road.
Point A	Haumesser Road
Point B	West Dekalb tap
Point C	

Normal ratings

Emergency ratings

Summer (MVA)	376.000000	483.000000
Winter (MVA)	452.000000	538.000000
Conductor size and type	Two twisted 556 ACSR Parakeet	
Nominal voltage	AC	
Nominal voltage	138	
Line construction type	Overhead	
General route description	Adjacent to existing line 11323 right-of-way from Haumesser Road to the West Dekalb tap.	
Terrain description	Flat terrain through farmland.	
Right-of-way width by segment	Additional ROW is assumed to be 75 feet wide adjacent to existing line 11323 ROW.	
Electrical transmission infrastructure crossings	None	
Civil infrastructure/major waterway facility crossing plan	No major infrastructure or waterway crossings are required.	
Environmental impacts	Land is currently farmed so environmental impacts are expected to be minimal.	
Tower characteristics	Monopole steel towers will be utilized.	
Construction responsibility	ComEd	
Benefits/Comments		
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	\$2,502,882.00
Component cost (in-service year)	\$2,901,526.00

Transmission Line Upgrade Component

Component title	Rebuild Line 11323 tap to West Dekalb
Project description	Rebuild approximately 10 miles of the line 11323 tap to West Dekalb.
Impacted transmission line	11323
Point A	West Dekalb tap
Point B	West Dekalb
Point C	
Terrain description	Flat terrain through farm fields and along rural roads.

Existing Line Physical Characteristics

Operating voltage	138
Conductor size and type	477 ACSR
Hardware plan description	New hardware will be used.
Tower line characteristics	Existing structures are wood poles built in 1972.

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	Two conductor twisted 556 ACSR Parakeet	
Shield wire size and type	To be determined during engineering.	
Rebuild line length	10 Miles	
Rebuild portion description	Rebuild 10 miles of wood poles with steel monopole construction.	
Right of way	Construction can be within the existing ROW. ComEd will investigate widening the ROW to allow for longer spans and reduced number of towers and costs.	
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	\$49,717,616.00
Component cost (in-service year)	\$57,636,342.00

Transmission Line Upgrade Component

Component title	Rebuild Line 8315 Glidden to West Dekalb
Project description	Rebuild approximately 6 miles of the line 8315 Glidden to West Dekalb.
Impacted transmission line	8315
Point A	Glidden
Point B	West Dekalb
Point C	
Terrain description	Flat terrain through farm fields and along rural roads. Near Glidden the line passes through some residential and wooded areas.

Existing Line Physical Characteristics

Operating voltage	138
Conductor size and type	477 ACSR
Hardware plan description	New hardware will be used.
Tower line characteristics	Existing structures steel towers built in 1970.

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	Two conductor twisted 556 ACSR Parakeet	
Shield wire size and type	To be determined during engineering.	
Rebuild line length	6 Miles	
Rebuild portion description	Rebuild 6 miles of steel towers with steel monopole construction.	
Right of way	Construction can be within the existing ROW. ComEd will investigate widening the ROW to allow for longer spans and reduced number of towers and costs.	
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.	
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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	\$25,793,995.00
Component cost (in-service year)	\$29,902,310.00

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
2023W1-GD-W268	272756	W DEKALB ;3T	271428	ESS H452 ;RT	1	138	222	Winter Gen Deliv	Included
2023W1-GD-W1397	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