

Eastern Missouri Grid Transformation Project in St. Charles County

February 2026

Ameren Transmission Company of Illinois (ATXI) and Ameren Missouri are working together to build a more reliable and resilient energy grid for the future. The Eastern Missouri Grid Transformation Project includes more than 130 miles of new or upgraded transmission lines through six (6) Missouri counties, including Marion, Ralls, Pike, Lincoln, St. Charles and St. Louis counties, as well as the City of St. Louis, with a targeted in service date of 2032.

This Project consists of five (5) segments, including the **Maywood-Belleau**, **Belleau-Graus**, **Graus-Sioux**, and **Graus-Bugle** segments within St. Charles County. These segments upgrade the transmission line, and specifically in St. Charles County, the Project involves:

REPLACEMENT

Replacing **35 miles** of existing wood and steel H-frame structures and lattice towers with new steel monopoles to carry additional energy. In most instances, the number of structures is lessened with a smaller footprint due to design and longer spans. New structures will typically be constructed within existing corridors.

NEW CORRIDOR

Up to **19 miles** of new 345 kV transmission line may be re-routed along new corridors through the county.

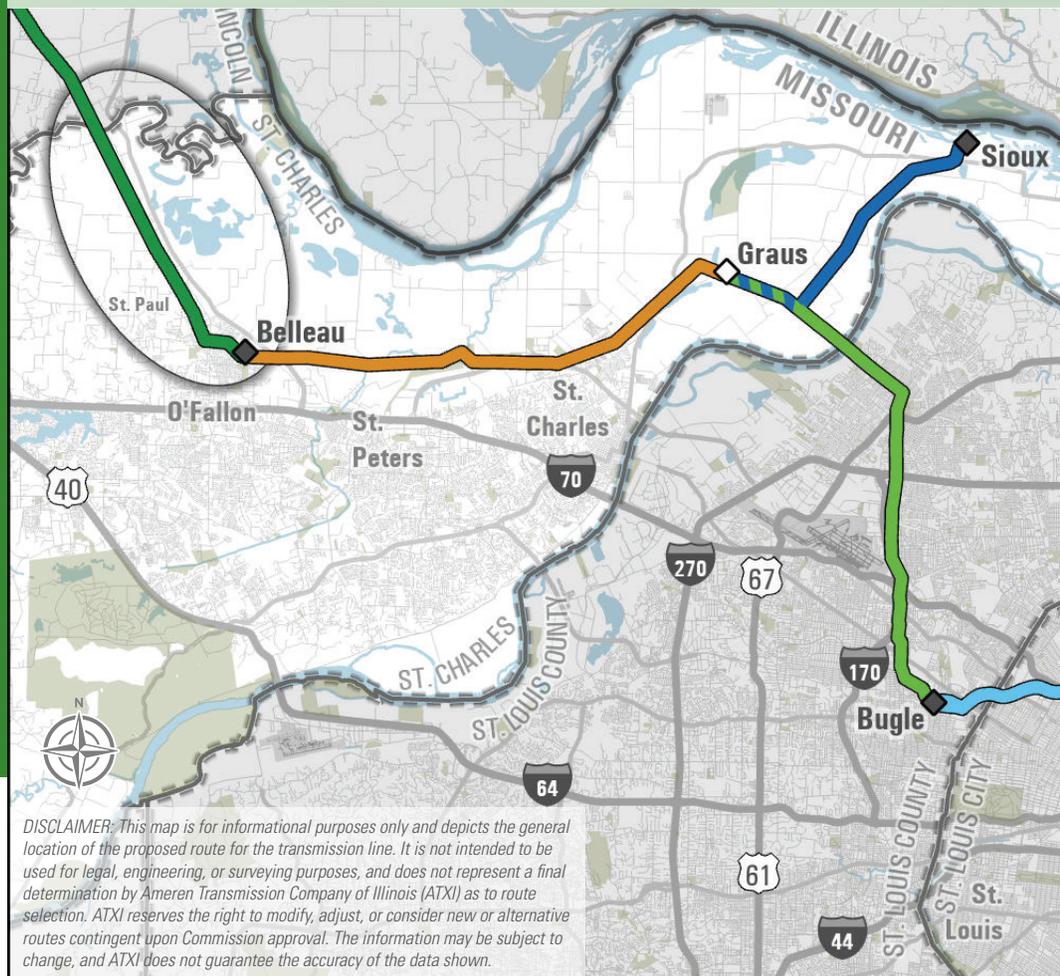
NEW SUBSTATION

A new 345 kV substation called Graus will be constructed.

The Project will prepare the grid for the future by replacing aging infrastructure, adding transmission capacity to ensure reliability and resiliency, and promoting more access to a balanced mix of energy sources for communities.

Study Area

All items shown are subject to change throughout the routing and filing process.



DISCLAIMER: This map is for informational purposes only and depicts the general location of the proposed route for the transmission line. It is not intended to be used for legal, engineering, or surveying purposes, and does not represent a final determination by Ameren Transmission Company of Illinois (ATXI) as to route selection. ATXI reserves the right to modify, adjust, or consider new or alternative routes contingent upon Commission approval. The information may be subject to change, and ATXI does not guarantee the accuracy of the data shown.

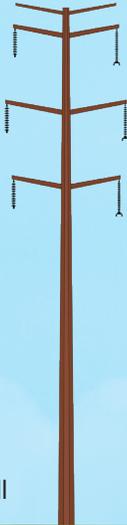
	Proposed Substation		Maywood - Belleau 161/345 kV Existing Transmission Replacement		Graus - Bugle 345 kV Existing Transmission Replacement
	Existing Substation		Belleau - Graus 138/345 kV Existing Transmission Replacement		Bugle - Mississippi River 138/345 kV Existing Transmission Replacement
	New Corridor Option Study Area		Graus - Sioux 138 and 345 kV Existing Transmission Replacement		
	Protected Land				

PUBLIC AND STAKEHOLDER INVOLVEMENT

Community leaders and members of the public will have various opportunities to provide input during each phase of the routing process as a preferred and alternate route are defined and submitted for certification by the Missouri Public Service Commission later this year. The goal of the routing process is to identify and take advantage of opportunities while understanding and minimizing impacts to sensitivities and adhering to technical guidelines and statutory requirements. The project team will continue to engage local communities as the project progresses.

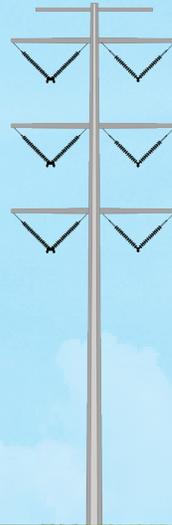
TYPICAL WEATHERING STEEL MONOPOLE STRUCTURES

-  Voltage: 161 kV and 345 kV
-  Height: 125-165 ft.
-  Span: 700-1,200 ft.
-  Structures per mile: 5 to 8
-  Conductor ground clearance: 21 ft. (minimum)
-  Foundation: Directly embedded with concrete backfill



TYPICAL STEEL MONOPOLE STRUCTURES

-  Voltage: 138 kV and 345 kV
-  Height: 80-199 ft.
-  Span: 700-1,200 ft.
-  Structures per mile: 6 to 7
-  Conductor ground clearance: 21 ft. (minimum)
-  Foundation: Drilled pier



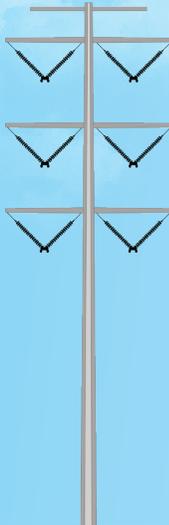
TYPICAL STEEL MONOPOLE STRUCTURES

-  Voltage: 138 kV
-  Height: 85-150 ft.
-  Span: 500-700 ft.
-  Structures per mile: 7 to 10
-  Conductor ground clearance: 21 ft. (minimum)
-  Foundation: Drilled pier



TYPICAL STEEL MONOPOLE STRUCTURES

-  Voltage: 345 kV and 345 kV
-  Height: 120-170 ft.
-  Span: 600-900 ft.
-  Structures per mile: 5 to 7
-  Conductor ground clearance: 25 ft. (minimum)
-  Foundation: Drilled pier



TYPICAL STEEL MONOPOLE STRUCTURES

-  Voltage: 345 kV
-  Height: 110-160 ft.
-  Span: 500-700 ft.
-  Structures per mile: 7 to 10
-  Conductor ground clearance: 25 ft. (minimum)
-  Foundation: Drilled pier



At this time, we anticipate using steel monopole structures. Typical information about these types of structures is provided.

Note: This graphic is not to scale, and the number of arms on a typical structure may vary depending on the final route.

CONNECT WITH THE PROJECT TEAM

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