

# Hello!

The Limestone Ridge Project Virtual Webex Meeting will begin shortly.

**Please call 573.232.3003 if you have having issues hearing any audio or seeing the screen.**

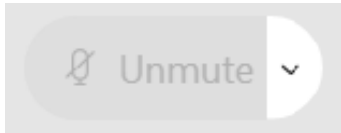
# Welcome to the Limestone Ridge Project Virtual Public Meeting

**October 28: 12:00 p.m. or 7:00 p.m.**

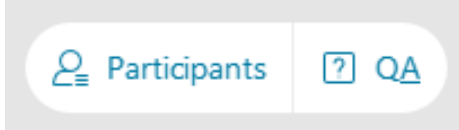
**Phase 2: Preliminary Route Alternatives**



# Welcome to Webex



You are muted and your video is disabled upon entry.



Please use the QA (lower right hand corner of the screen) to type in comments or questions throughout the session. Questions will be answered after the presentation during the Q & A session.



If you experience any technical difficulties, please call **573.232.3003**

# o Safety Moment

## DRIVING AND WILDLIFE





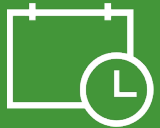
# Agenda



SAFETY MOMENT



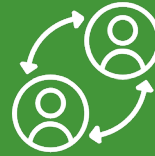
INTRODUCTIONS



PROJECT OVERVIEW



INTEGRATED ROUTING PROCESS



ENGAGEMENT OPPORTUNITIES



ROUTING INPUT



Q&A



WRAP-UP

# OPEN HOUSE & COVID-19

Due to COVID-19, we are taking action to keep you and our staff safe and healthy. Ameren has indefinitely postponed all public meetings and in-person events. Public engagement remains a top priority for our project team and we appreciate you joining us online to learn more about this project and provide input on the project development within the study area.



*This photo was taken during another Ameren project open house before COVID-19.*

# Proposed Route Corridors Engagement

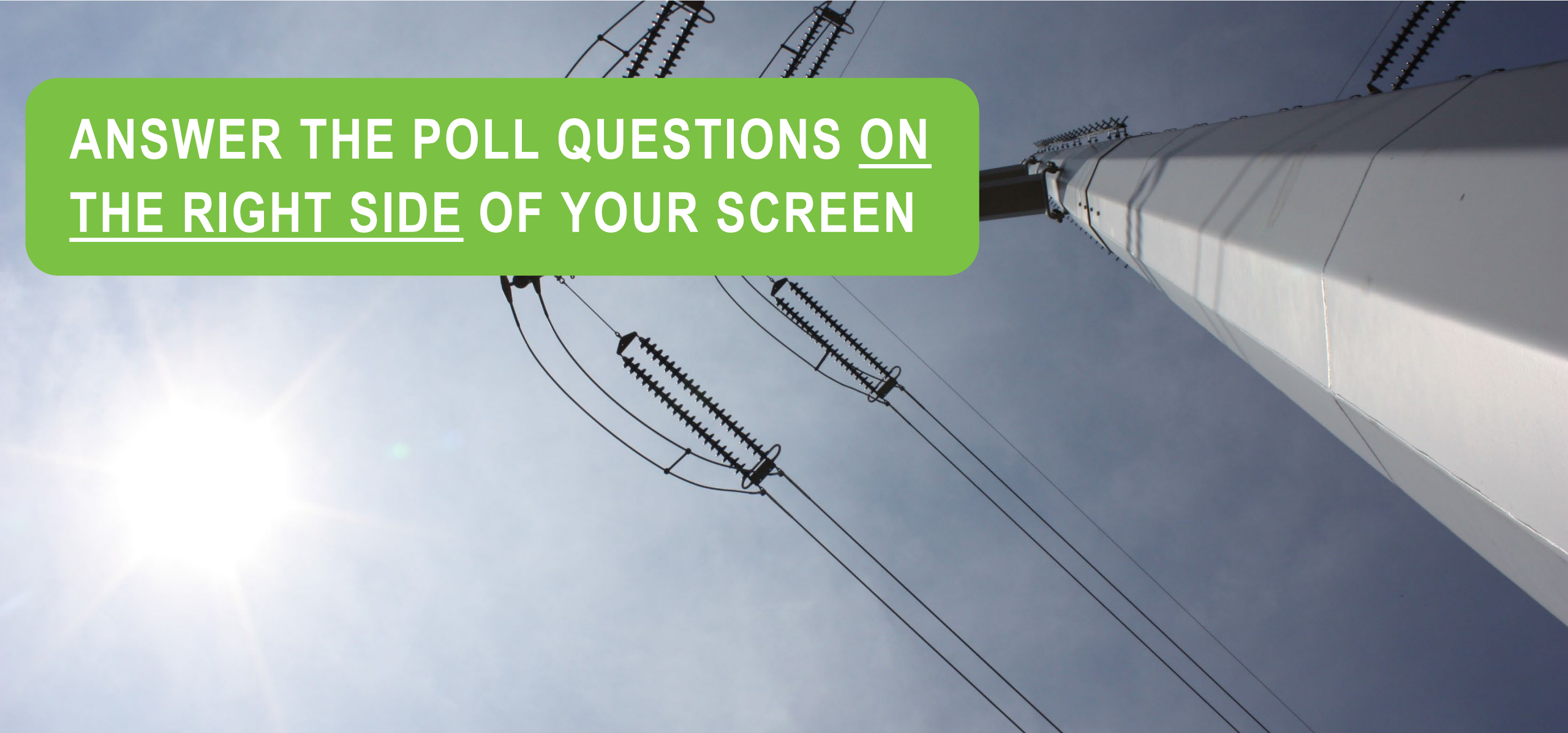
Thank you to everyone who attended our meetings in August 2020!



**All input received during the first phase of public engagement for the Proposed Route Corridors was reviewed and considered.**

# We want to hear from you!

**ANSWER THE POLL QUESTIONS ON  
THE RIGHT SIDE OF YOUR SCREEN**





# Presenters



**Jim Jontry**  
Ameren Project Manager



**Gabe Goldsmith**  
Ameren Stakeholder Relations



**Dan Schmidt**  
Routing Consultant



# Ameren Support Project Staff



**Carmen Bruns**

Transmission Line Design Engineering



**Eric Dearmont**

Regulatory



**Matt Killebrew**

Transmission Construction Manager



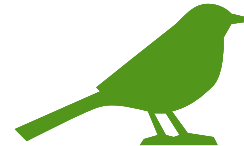
**Mary Hetz**

Transmission Vegetation Management Manager



**Craig Hiser**

Transmission Real Estate Supervisor

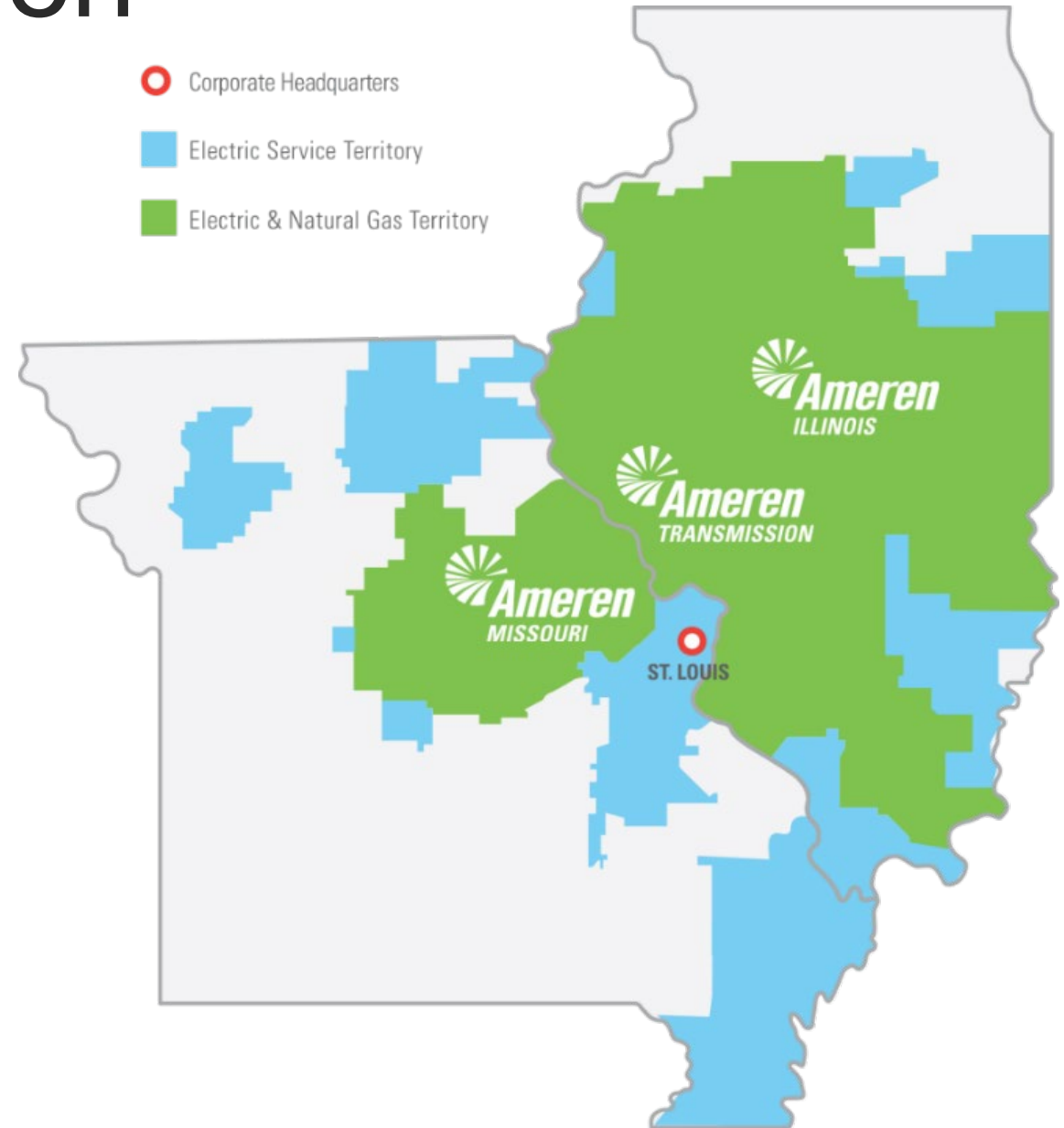


**Kenny Lynn**

Consulting Environmental Scientist

# Transmission at Ameren

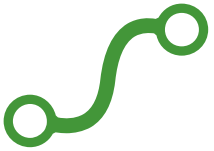
- Electric transmission businesses (including ATXI) rate regulated by Federal Energy Regulatory Commission
- Operates over 8,200 circuit miles of transmission
- ATXI develops regional transmission projects



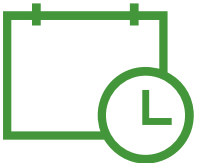
# Limestone Ridge Project



Proposing to construct a new, approximately 14-19 mile 138 kV transmission line and associated facilities in Southeast Missouri.

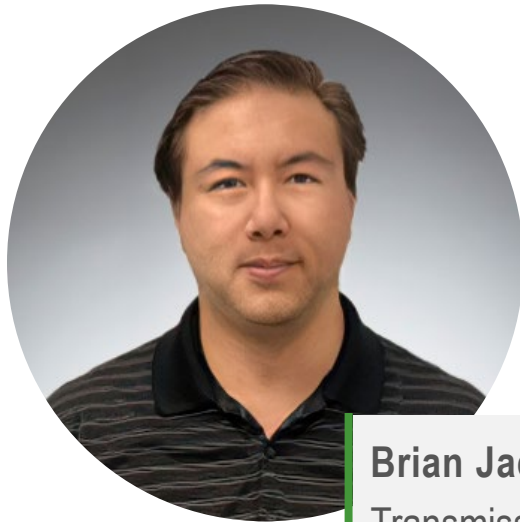


The new line is planned to connect a new substation in Perry County to a new substation in Cape Girardeau County.



The project is proposed to be in service by December 2023.

# Project Partners



**Brian Jack**  
Transmission Line Design Engineer



**Steve Elsea**  
Member Services Manager

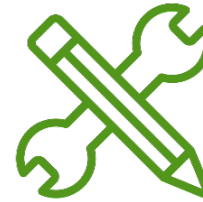
# Wabash Support Project Staff



**Roger Varney**  
Real Estate Manager



**Greg Knuckles**  
Construction Manager



**Garret Coffman**  
Consulting Design Engineer



# Wabash Valley Power Alliance

WABASH VALLEY POWER IS A NOT-FOR-PROFIT ELECTRIC COOPERATIVE  
AND WHOLESALE PROVIDER OF ELECTRICITY TO OUR MEMBERS:

23

LOCALLY OWNED  
DISTRIBUTION CO-OPS

SERVING MORE THAN

321,000



HOMES, SCHOOLS, FARMS, & BUSINESSES

300,000 RESIDENTIAL MEMBERS (93%) 21,000 COMMERCIAL AND INDUSTRIAL MEMBERS (7%)

17<sup>TH</sup> LARGEST GENERATION AND TRANSMISSION COOPERATIVE  
IN AMERICA

## ILLINOIS

CO-OPS 3  
COUNTIES 30  
MEMBERS SERVED 51,000

FOUNDED IN 1963  
PERU, IN



## MISSOURI

CO-OPS 1  
COUNTIES 4  
MEMBERS SERVED 27,000

## INDIANA

CO-OPS 19  
COUNTIES 50  
MEMBERS SERVED 243,000

MOVED HQ IN 1976  
INDIANAPOLIS, IN



# Wabash Valley Power Alliance

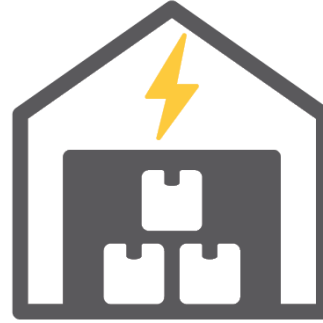
- Proposing to construct a new 138kV substation owned by Wabash Valley Power Alliance, which will be maintained and operated by Citizens Electric Corporation.
- Expansion and modifications to two existing WVPA-owned substations also maintained and operated by CEC.
- The project is proposed to be in service by December 2023.



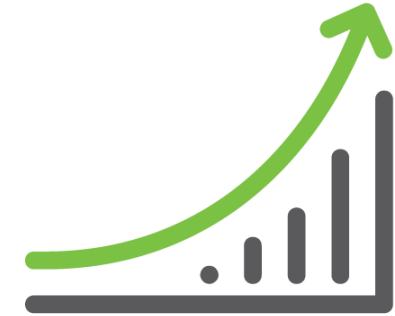
# Project Need



- Improve energy reliability for local homes and businesses

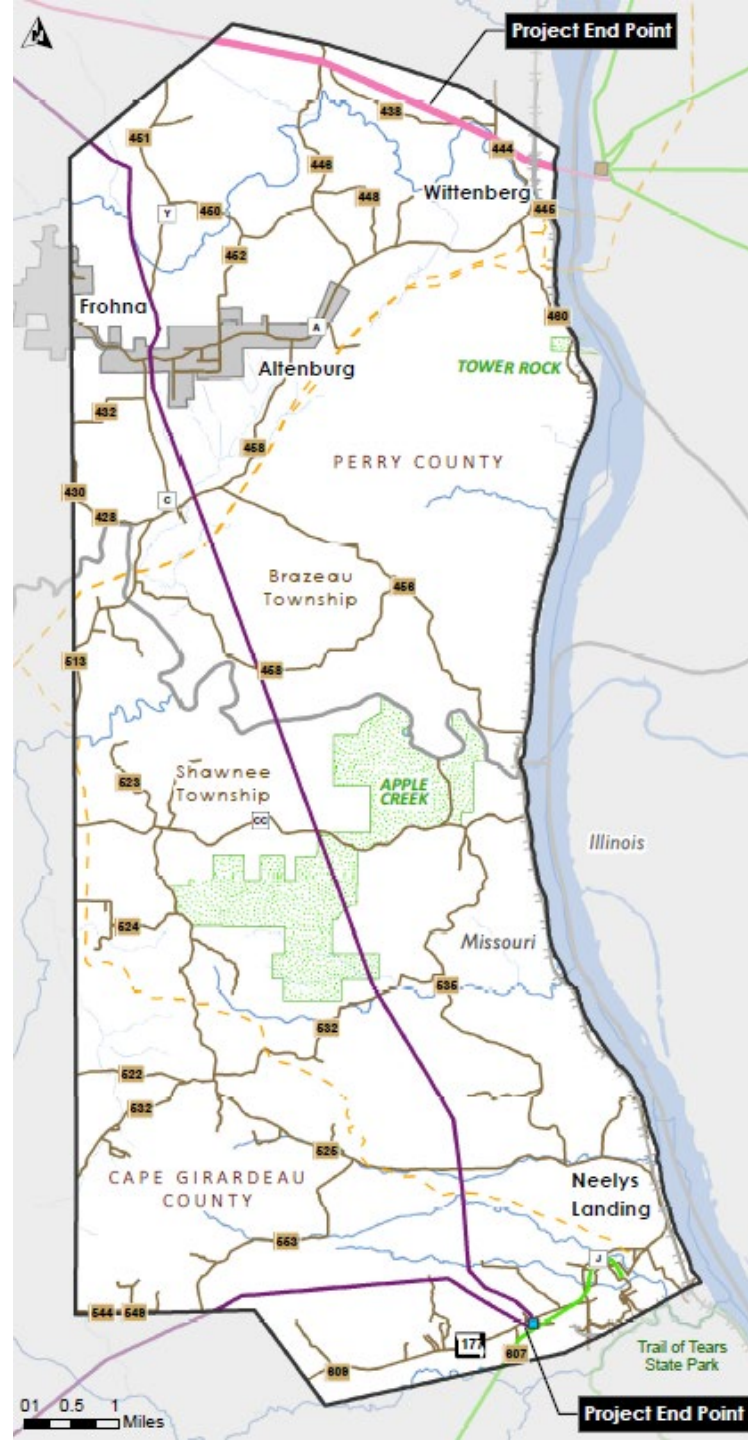


- Provide additional energy support to local manufacturing facilities



- Support continued area economic growth

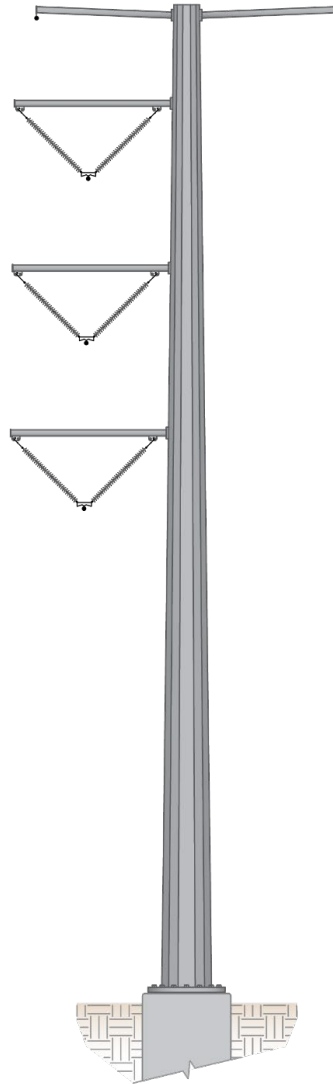
# Study Area



# Structures

## ? Benefits of galvanized steel monopoles:

- Compact footprint compared to H-frame and lattice tower
- Simple and quick construction
- Galvanized layer protects steel from corrosion
- Engineered to optimize performance



## Typical 138kV Steel Monopole Structures\*

- Height: 100 - 160 ft
- Span: 800 - 1,000 ft
- Structures/mile: 6 - 7
- Conductor clearance: 25 ft (minimum)
- Drilled concrete pier foundation: 7 - 12 ft diameter
- Easement width: 125 ft
- Above-ground foundation: 2 ft

\*138kV with the potential of a future 345kV circuit



# Anticipated Schedule

## 2020

- Collect data
- Gather public input
- Develop routes

## 2021

- Engineering & permitting
- File for Certificate from PSC
- PSC review process

## 2022

- Engineering & permitting
- Field surveys
- Real estate acquisitions
- Preconstruction activities
- Substation construction

## 2023

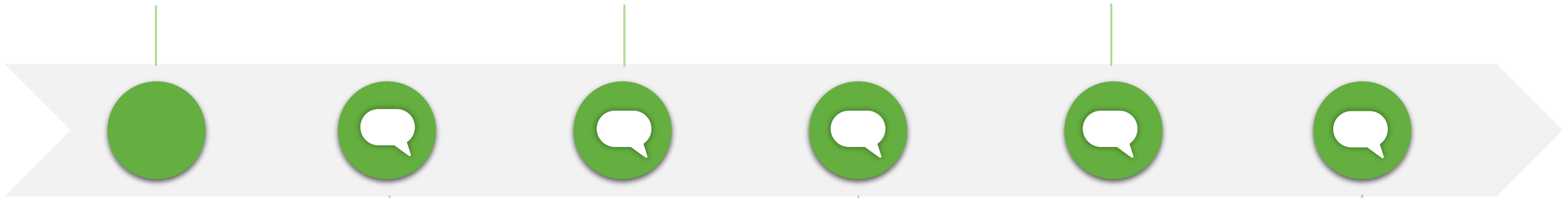
- Construction
- Project in-service (December)

# Routing Process & Stakeholder Outreach

Gather and  
Review Data  
Ongoing

Potential Route  
Corridors

Analyze and Identify  
a Preferred Route



Study  
Area

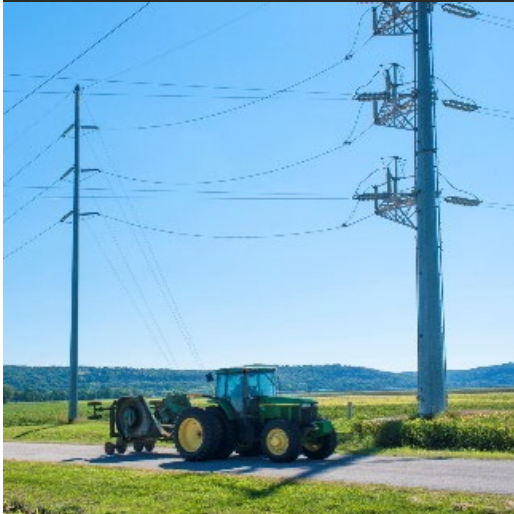
Preliminary  
Route  
Alternatives

Prepare Regulatory  
(or PSC) Documents

# Routing Criteria

**Our goal is to** take advantage of Opportunities while understanding and minimizing impacts to Sensitivities and adhering to Technical Guidelines and Statutory Requirements.

Opportunities



Sensitivities



Technical Guidelines



Statutory Requirements



# Routing Criteria



## OPPORTUNITIES

Linear features that are oriented in the direction of the project:

- Field lines
- Property lines
- Section lines
- Roads
- Utility corridors



## SENSITIVITIES

Area resources or conditions that can potentially limit transmission line development:

- Agricultural conflicts
- Airports/VOR
- Cemeteries
- Communication Towers
- Conservation Areas/Nature Preserves
- Cultural Resources
- Planned Development (future)
- Floodplains  
(more difficult construction and many times have sensitive species)
- Forest
- Hospitals
- Karst Areas
- Levees
- Mines/Quarries
- Pipelines\*
- Railroads\*
- Religious Facilities
- Residences  
(especially large clusters of homes)
- Scenic Highway
- Schools/Daycares
- Streams/Wetlands
- Wells

*\*Linear features with additional precautions and studies needed*



# Routing Criteria

## Technical Guidelines:

- Minimize length
- Ensure adequate access for construction and maintenance activities
- Comply with horizontal and vertical clearance requirements
- Maintain required or sufficient setbacks from roads and highways
- Minimize angle structures
- Minimize crossing of existing transmission lines
- Minimize impractical construction requirements (e.g. steep slopes)
- Minimize non-standard designs
- Ensure safety and compatibility with existing infrastructure





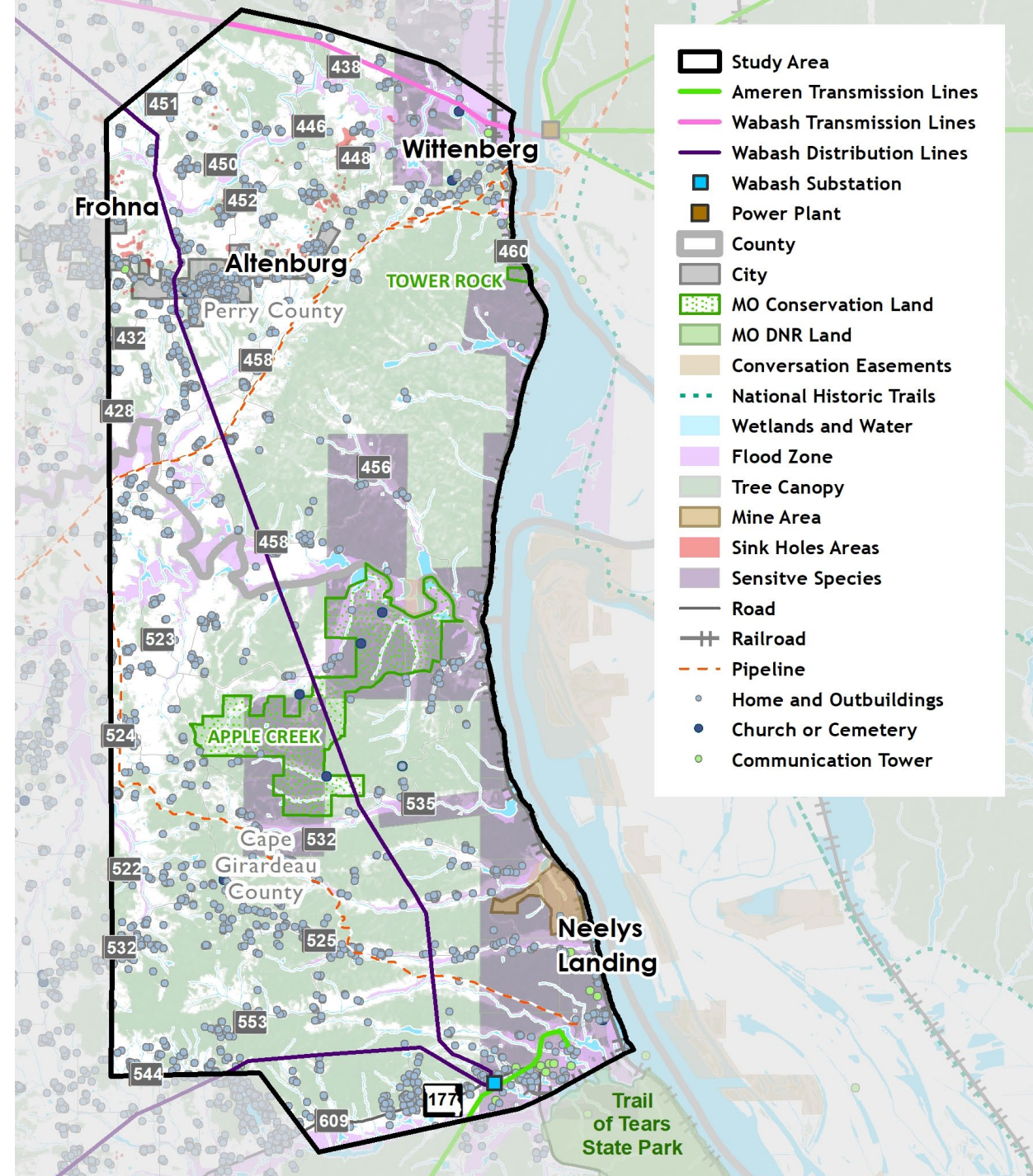
# Routing Criteria

## Agency Coordination:



# Initial Opportunities & Sensitivities

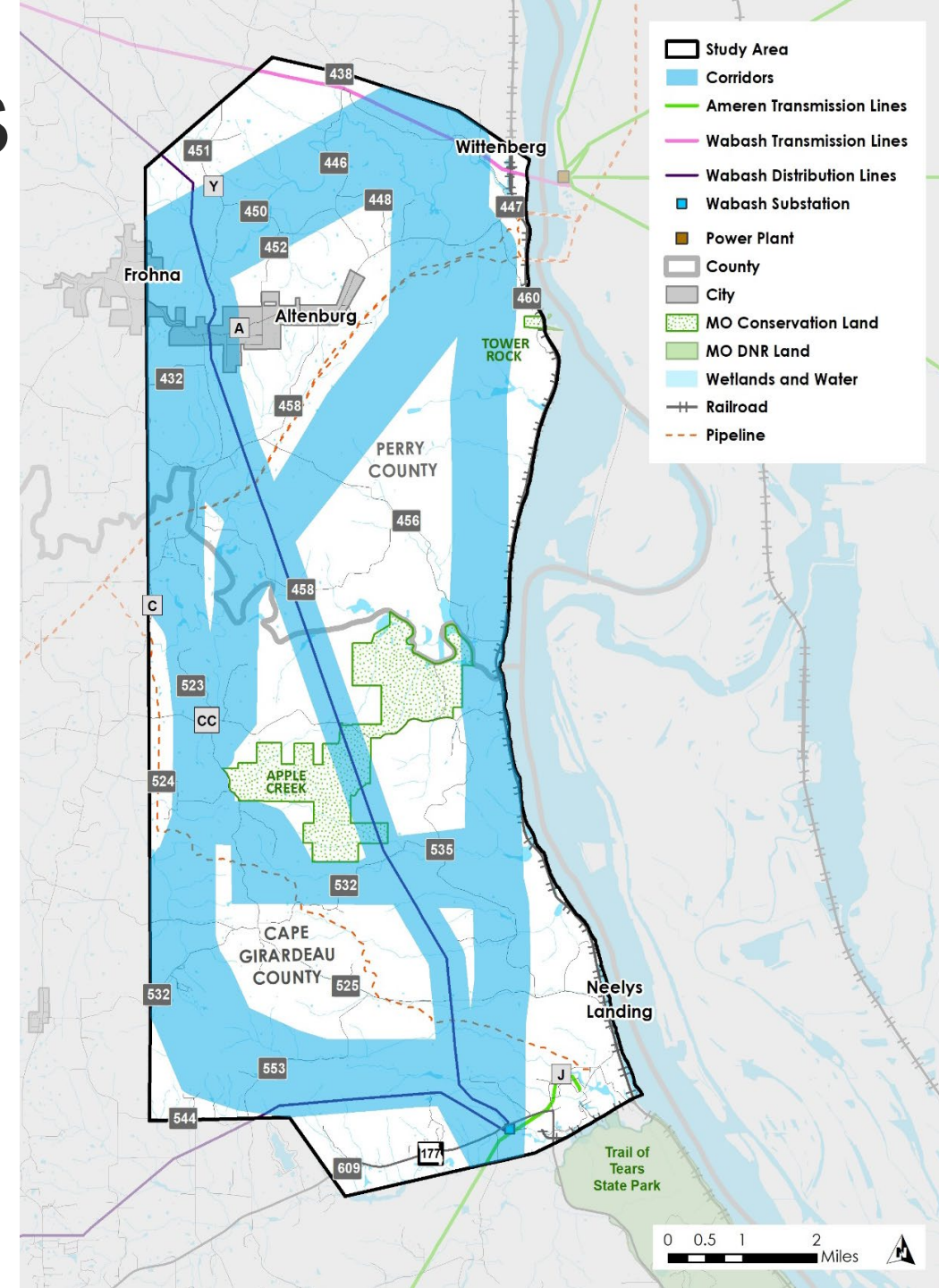
- Structures
- Resources Areas
- Sensitive Species
- Floodplain/Wetlands
- Forested Areas
- Steep slope





# Potential Route Corridors

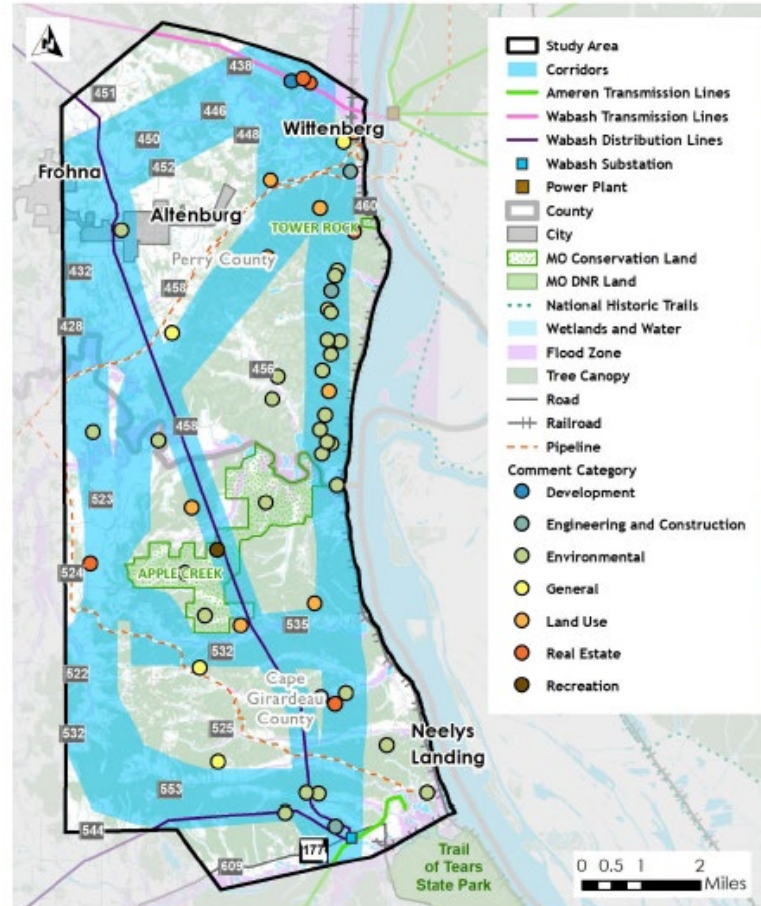
- Maximize Opportunities
- Minimize Sensitivities
- Follow Technical Guidelines
- Adhere to Statutory and Regulatory Requirements



# What We Heard

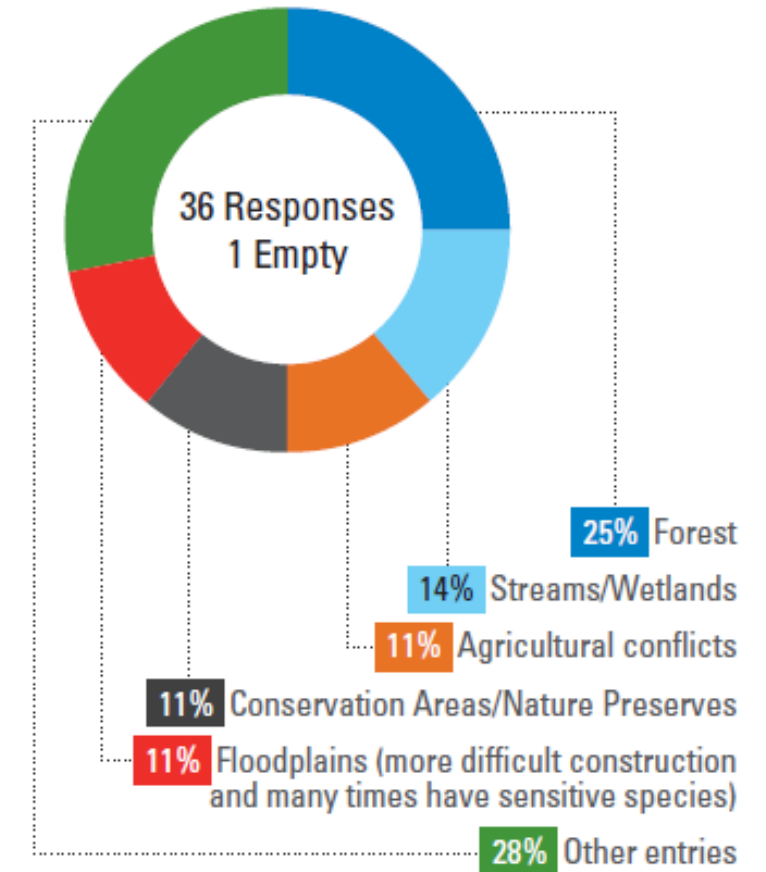
During our Phase 1 of public engagement in August 2020, our project team received input from the community on the Proposed Route Corridors. All comments were reviewed during the development of our Preliminary Route Alternatives. In general, most comments fit into the following categories:

- Development
- Engineering and construction
- Environmental
- General
- Land use
- Real estate
- Recreation



## Phase 1 Online Open House Survey Results

Select the top three Sensitivities that are most important to you



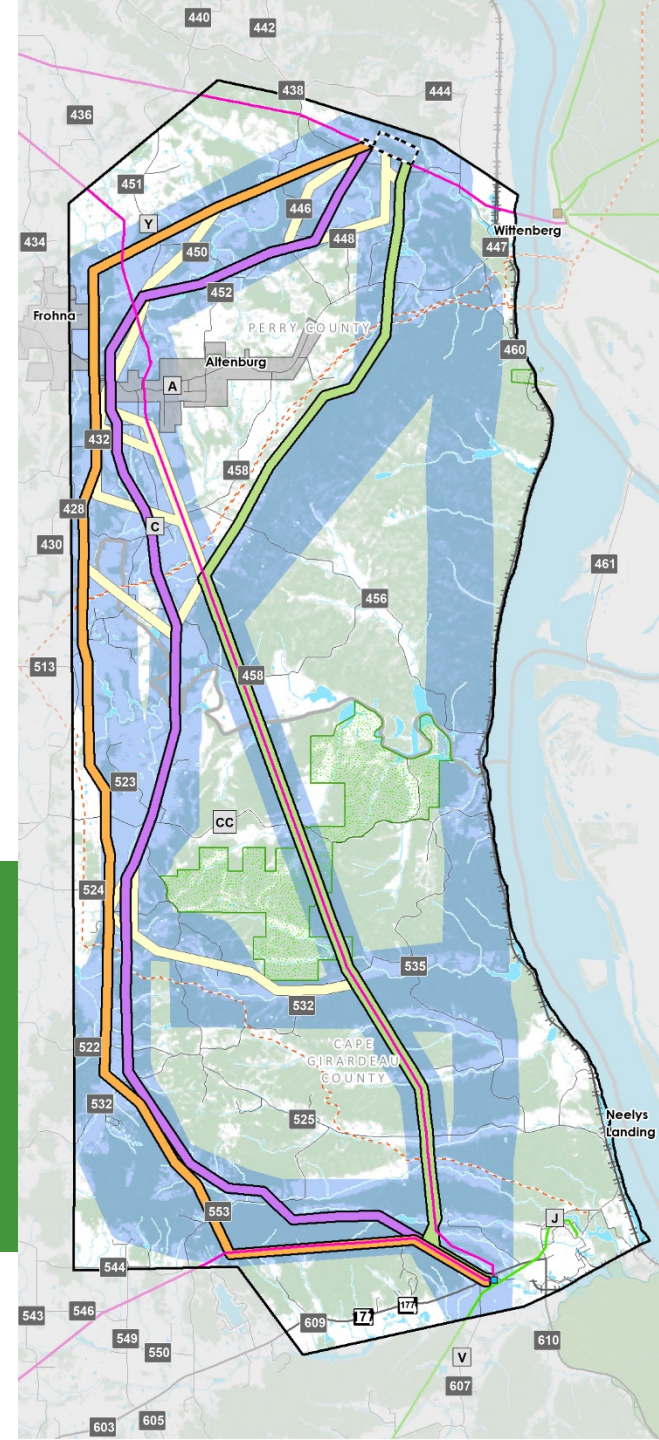


# Preliminary Route Alternatives

- Developed based on continued analysis, input from stakeholders
- Maximize Opportunities
- Minimize Sensitivities
- Follow Technical Guidelines
- Adhere to Statutory and Regulatory Requirements

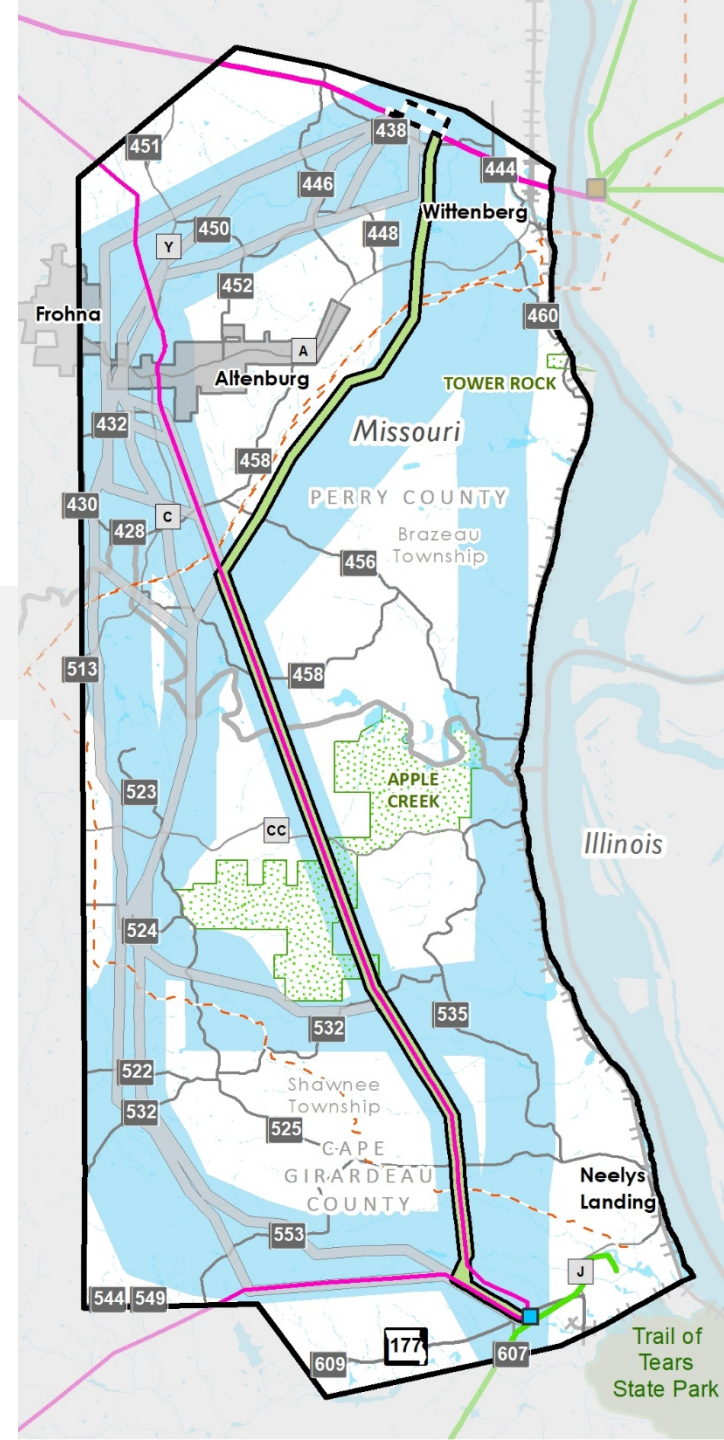
## Public Input Opportunity!

Share comments on Preliminary Route Alternatives to help the routing team define a Preferred Route.



# Preliminary Route Alternatives

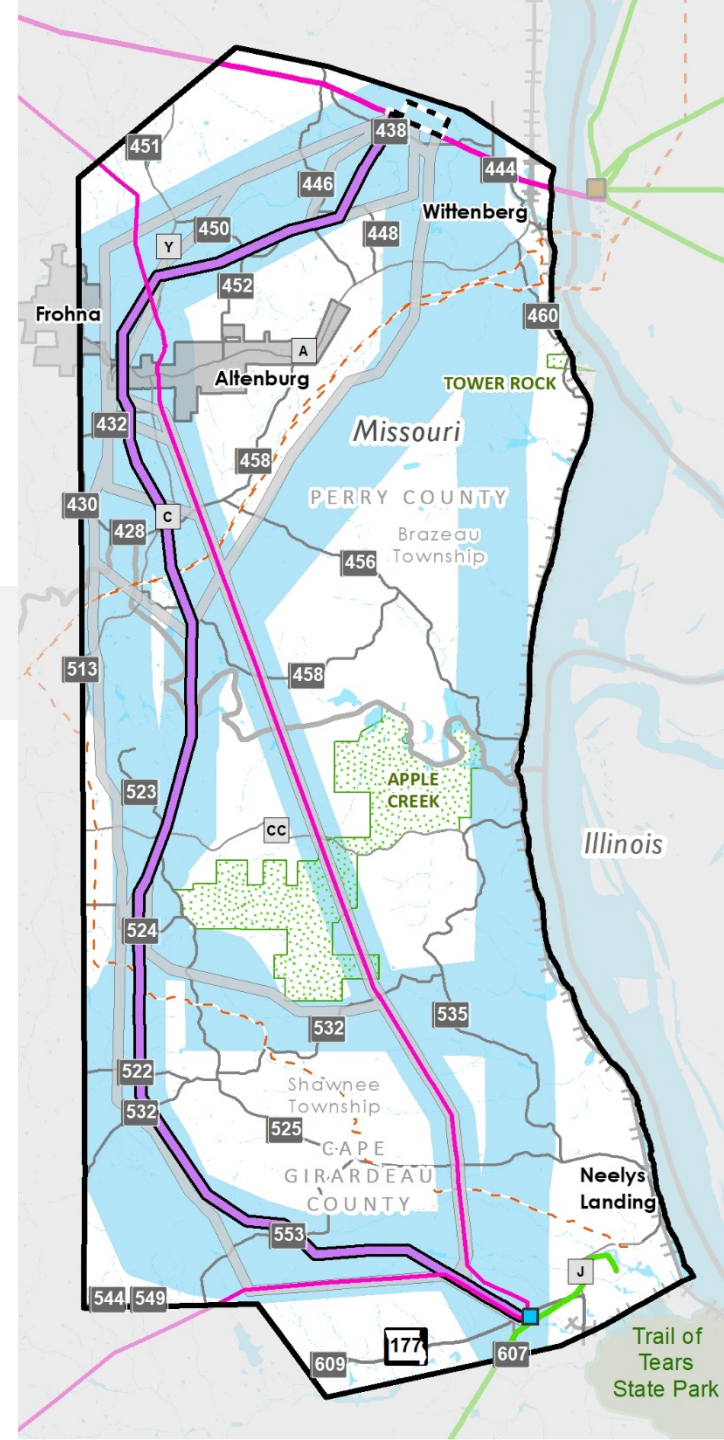
## Green Route





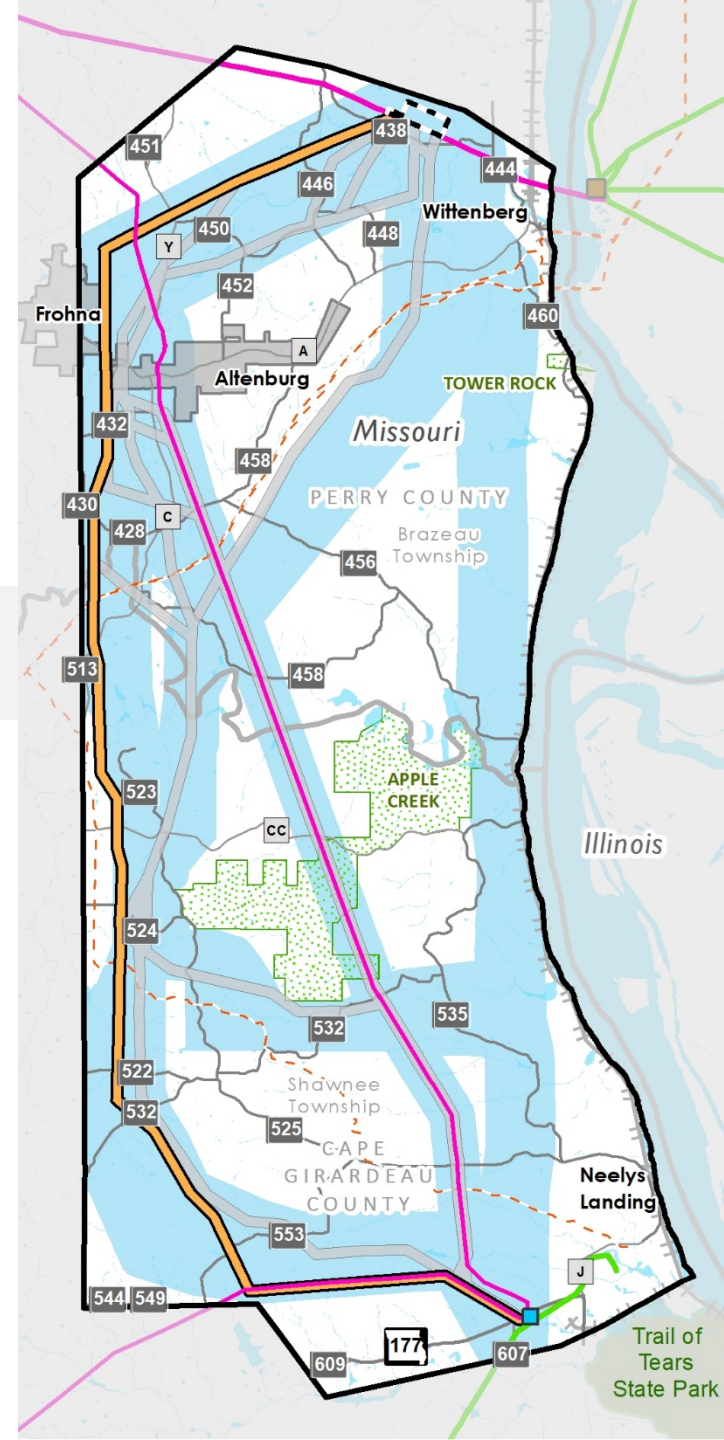
# Preliminary Route Alternatives

## Purple Route



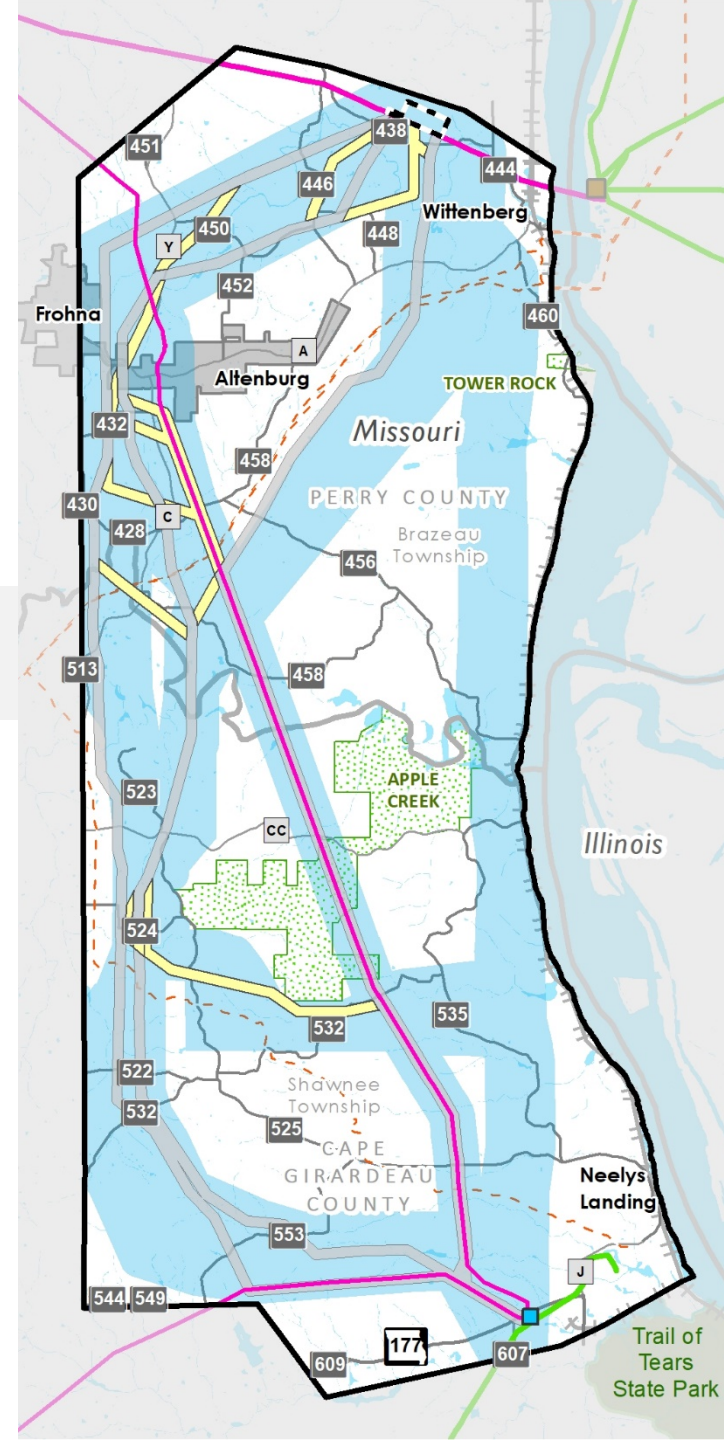
# Preliminary Route Alternatives

## Orange Route



# Preliminary Route Alternatives

## Connectors



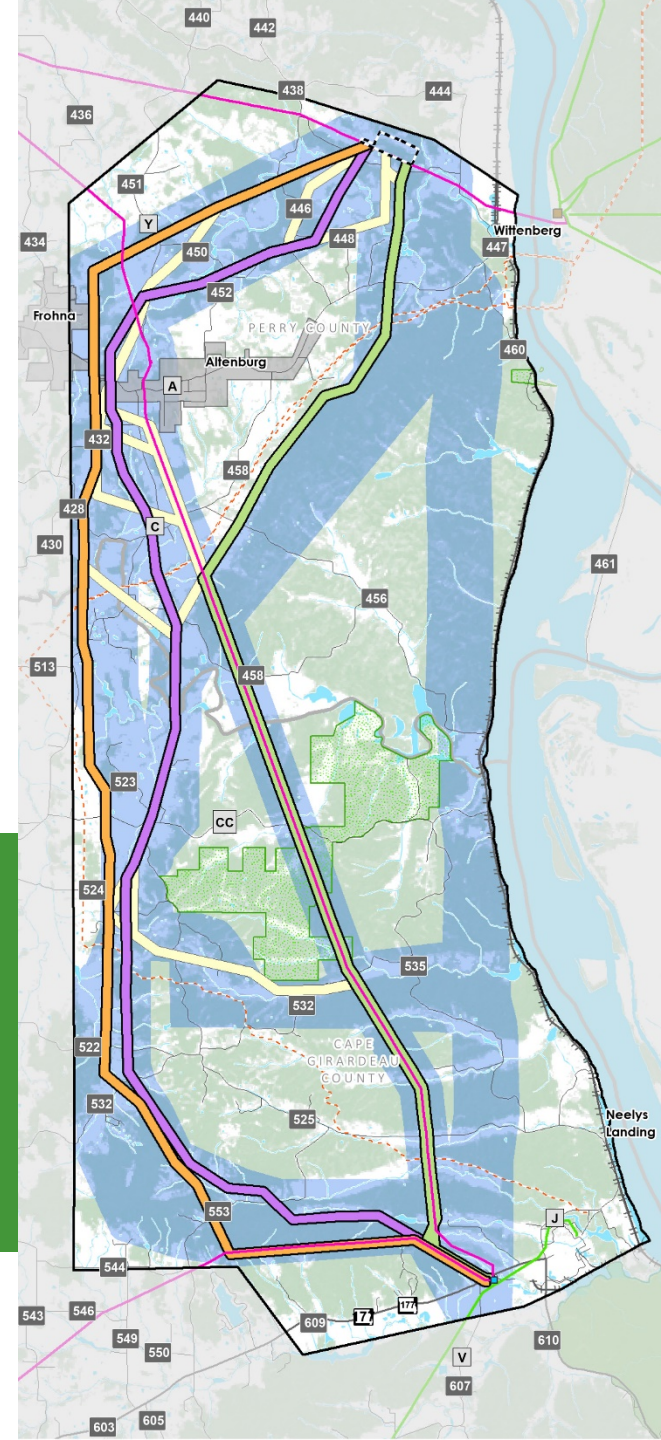


# Preliminary Route Alternatives

- Maximize Opportunities
- Minimize Sensitivities
- Follow Technical Guidelines
- Adhere to Statutory and Regulatory Requirements

## Public Input Opportunity!

Share comments on Preliminary Route Alternatives to help the routing team define a Preferred Route.



# Real Estate

Once a final route has been approved, Ameren will begin negotiations for acquiring easements.

## Easement Discussions

Project representatives will meet with affected landowners to discuss:

- Land surveys and studies
- Proposed easement
- Type(s) of structures
- Compensation
- Property restoration
- Damage settlements
- Right-of-way clearing



## What is an easement?

An easement is an interest or right to use the land of another for a specific purpose. Ameren and our partners will be seeking to obtain easements from affected landowners for the construction, operation, and maintenance of the electric transmission line.





# Preconstruction Activities



## Field Surveys

The field data we collect allows our scientists and engineers to plan and design the line with the information necessary for construction.



## Wildlife Surveys

Wildlife surveys provide important data about the species living in the area, helping us plan how to minimize impacts to wildlife species and habitat.



## Wetland and Stream Surveys

The purpose of the surveys is to determine if these features can be classified as a wetland or a stream based on U.S. Army Corps of Engineers guidelines. The crew will collect data on vegetation, hydrology and soil characteristics.



## Archaeological Surveys

Archaeological surveys consist of walking the easement area to look for cultural artifacts on the ground. If artifacts are found, they are collected for further analysis.



## Soil Surveys

The design process requires information about the soil where the structure will be located. Collecting soil information is completed using the following steps by our geotechnical field survey crews:

- Gather samples from each site by digging a 4-6 inch wide hole into the ground, known as a soil boring. Soil boring areas will be filled back in after the survey.
- Review samples to determine the physical properties and layering of the soil.
- Use soil information to design each structure.

# Construction Phases

A one-year construction season is anticipated in 2023. There will be six major stages of construction including:



Survey structure locations and vegetation clearing



Auger holes and pour foundation



Assemble structure on the ground



Lift and place structure on foundation



String wires



Restore easement and energize line



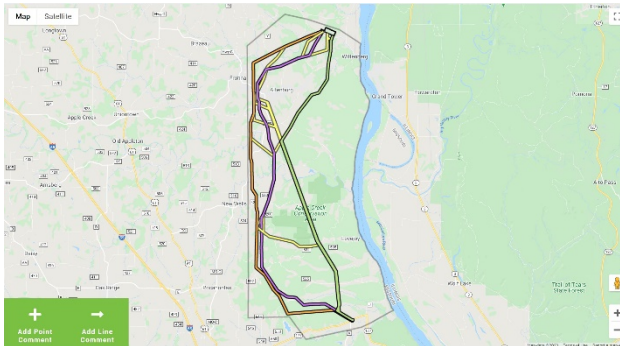
# Engagement Opportunities: Virtual Open House and Comment Map

Visit our website:  
[Limestoneridgeproject.com](https://limestoneridgeproject.com)

## LIMESTONE RIDGE PROJECT

Ameren Transmission Company of Illinois (ATC), in collaboration with Wabash Valley Power Alliance (WVPA), Citizens Electric Corporation and Ameren Missouri, is proposing to construct a new, approximately 12-mile 138 KV transmission line and state-of-the-art substations to improve energy reliability for local communities in Southeast Missouri. The new line will connect two new substations in Perry and Cape Girardeau Counties. The proposed in-service date for the project is December 2023.

© We are collecting information within the Project Study Area  
Add a comment to provide our team information about your area



# Engagement Opportunities: Information Packets



## Each packet includes:

- Project overview handout
- 11x17 Route Alternatives Map
- Comment Form
- Information Boards



## Pick up a packet:



1500 Rand Avenue  
Perryville, MO 63775  
Monday-Friday between  
7:30am-5:00pm from  
October 19 – October 30



## Request a mailed packet:

Call Us 573.232.3003 and leave a message

Email Us

[limestoneridgeproject@ameren.com](mailto:limestoneridgeproject@ameren.com)



A photograph of a rural landscape. In the foreground, a white wall with several large, hexagonal metal bolts is visible. The bolts are arranged in a row, with some showing signs of rust. The wall is set against a background of a field with dry, yellowish-brown grass. In the distance, a tall power line tower stands against a clear blue sky. The text "COMMENTS ON THE PRELIMINARY ROUTE ALTERNATIVES WILL BE COLLECTED THROUGH OCTOBER 30." is overlaid on the right side of the image in a green box with white text.

**COMMENTS ON THE PRELIMINARY  
ROUTE ALTERNATIVES WILL BE  
COLLECTED THROUGH OCTOBER 30.**



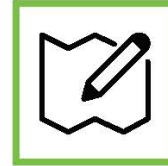
# Next Steps

Phase 3 of Public Engagement anticipated for December 2020. Visit our project website and sign up to receive email updates on engagement opportunities!



Ongoing  
Identify, Analyze, and Select Final Route

- We collect data from federal, state and local agencies, stakeholders, public comments and publicly-available data sources.



April – June 2020  
Study Area

- Formation of the Routing Team
- Development of Routing Criteria (see next slide) and identification of project parameters
- Identification of Study Area
- Review of publicly available information
- Virtual Community Representative Forums (June 23 and June 24)



July – August 2020  
Route Corridors

- Evaluation of stakeholder input
- Development of Route Corridors
- Phase 1 Public Engagement – present potential route corridors



★ September - October 2020  
Preliminary Route Alternatives

- Evaluate input received from first phase of public engagement
- Development of Route Alternatives
- Phase 2 Public Engagement – present preliminary route alternatives



November - December 2020  
Identify, Analyze and Select Final Route

- Evaluate input received from second phase of public engagement
- Phase 3 Public Engagement - present preferred route

December 2020 - FINAL ROUTE DETERMINED




Early 2021  
Prepare regulatory (or PSC) documents

- Once the Public Service Commission documents are submitted, an official review process begins.

# More Opportunities to Connect

 LimestoneRidgeProject@ameren.com


 [www.LimestoneRidgeProject.com](http://www.LimestoneRidgeProject.com)

 573.232.3003



**QUESTIONS?**





**LEAVE US A NOTE IN THE  
CHAT BOX TO SCHEDULE A  
FOLLOW-UP MEETING WITH A  
PROJECT TEAM MEMBER.**





@ LimestoneRidgeProject@ameren.com

🌐 LimestoneRidgeProject.com

📞 573.232.3003

**THANK YOU**