TRANSFORMATION PROGRAM

## WELCOME

PHASE 2: DZTM VIRTUAL OPEN HOUSE August 2024







## Goals of Phase 2 Open House



Learn more about the program



See what's happening in your community



Provide feedback and input to the program team

Thank you for your time and feedback as we work to improve energy reliability for your community.





# Program Overview



## What is Energy Reliability?

Our energy grid is similar to our road system in the way they allow energy from various generation sources to travel short or long distances, as needed, at any given moment. On the road, when your main route is closed for construction, you review your options and find an alternative. In some cases, alternatives just don't exist, or they can't handle the increased traffic and users experience backups.

The energy grid is no different! If a large storm were to take out multiple transmission or distribution lines or "routes" in your area, local homes and businesses would be served by a lower capacity which could lead to reliability issues in the area.

With this program we can add more capacity or "alternate routes" to meet the changing needs in your community!





## Part of a Regional Plan For Energy Reliability

The Northern Missouri Grid Transformation Program is part of a larger initiative from Midcontinent Independent System Operator (MISO),

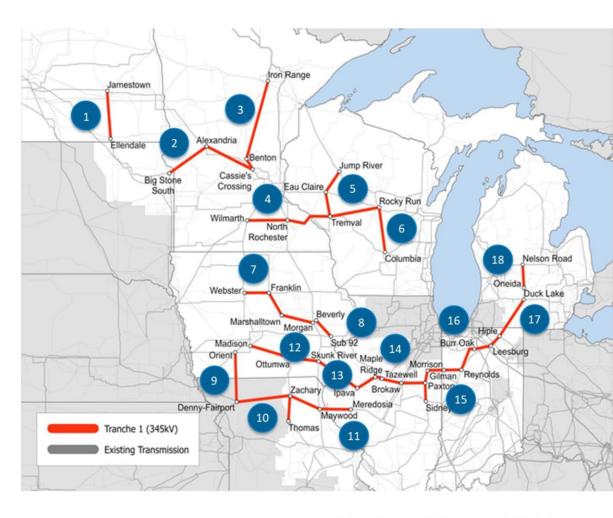
an independent member organization that works with midwestern states and Manitoba, Canada, to ensure reliable, resilient and affordable energy for the region.

MISO's larger energy initiative is known as Long Range Transmission Planning (LRTP) and is being developed to improve the ability to move energy across the Midwest—reliably and at the lowest possible cost.

LRTP has various stages called Tranches. The Northern Missouri Corridor is part of LRTP Tranche 1.

Visit <u>misoenergy.org</u> to learn more.

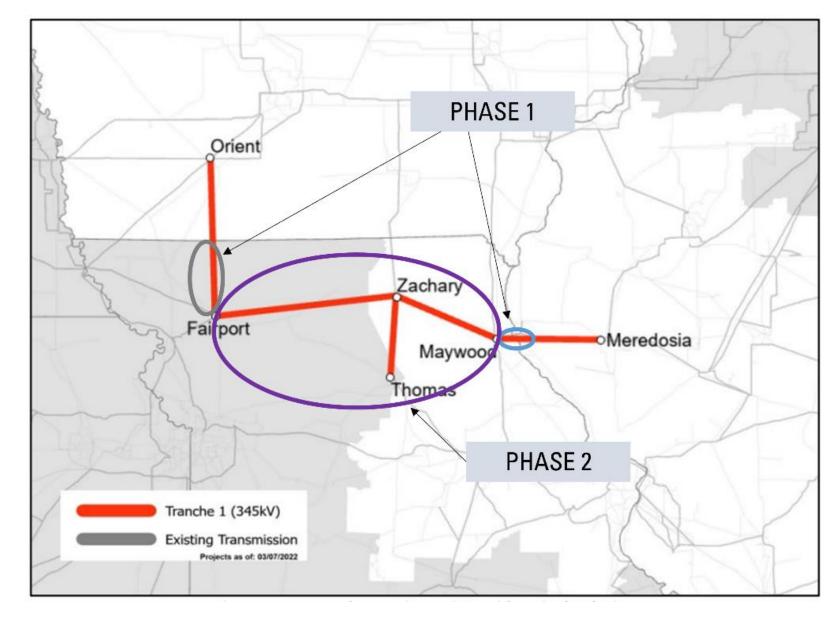




## Program Area

Ameren Transmission Company of Illinois (ATXI) has been selected by MISO to develop three Tranche 1 projects in Missouri. For this open house, we're focusing on Phase 2:

- Phase 1: Fairport-Dennylowa/Missouri border (FDIM)
- Phase 1: Maywood-Mississippi River Crossing (MMRX)
- Phase 2: Denny-Zachary-Thomas Hill-Maywood (DZTM)



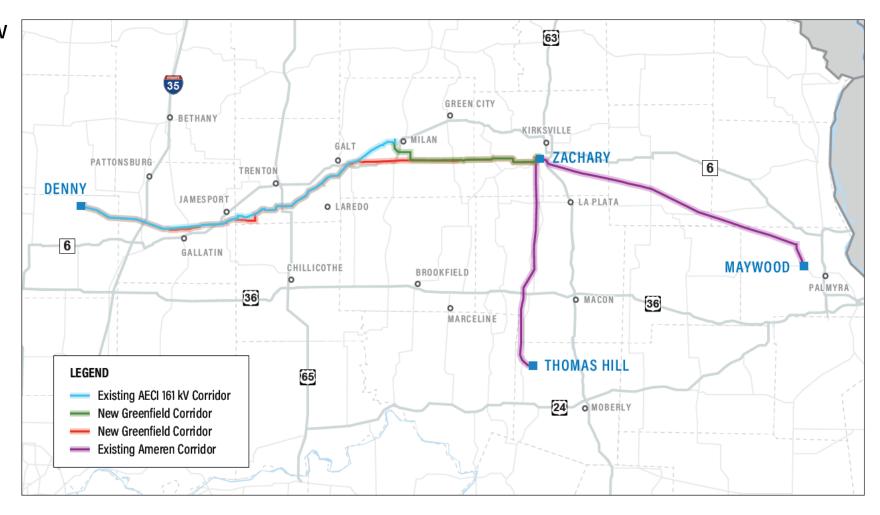


More information on Phase 1 can be found on our program website.

## Denny-Zachary-Thomas Hill-Maywood Project

- Over 200 miles of new 345 kV transmission lines in three line segments
- Upgrades to three existing Ameren substations
- Located in ten counties:

DeKalb, Daviess, Grundy, Sullivan, Adair, Knox, Lewis, Marion, Macon & Randolph





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## Program Benefits

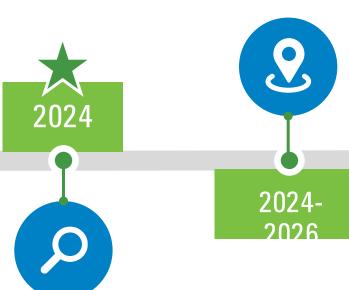
The program will prepare the grid for the future by replacing aging infrastructure, adding transmission capacity to ensure energy **reliability and resiliency**, and promoting more access to energy sources for communities.

- Increasing transmission capacity to meet changing energy needs.
- Supporting lower energy supply costs.
- Improving energy reliability for the surrounding region and local communities.
- Promoting access to diverse energy sources.
- Growing economic development opportunities.



## DZTM Schedule

File proposed route with Missouri Public Service (Mo PSC); Mo PSC review process



Project planning and routing, stakeholder and public engagement, finalize route(s)



Receive CCN decision from Mo PSC; real estate, agency coordination, permitting and surveys, pre-construction





2029-2030

Program in-service, restoration

Northern Missouri Grid





## **Agency Coordination**

Our team coordinates with federal, state and local agencies regarding protected or sensitive resources within the program area. Sometimes additional permits or approvals from these agencies are necessary for construction:

















### Real Estate & Easements

Ameren's real estate team will have several land agents assisting landowners during the entire real estate process for existing and new corridors. Discussions with landowners will include topics such as:

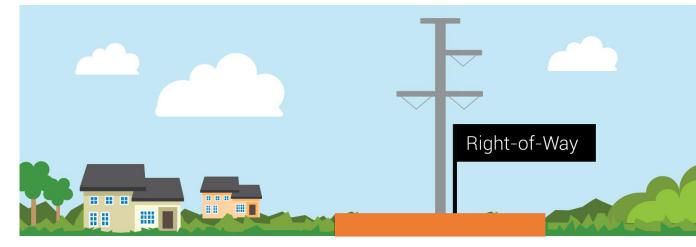
#### **Easement Needs**

Easements allow our team access for construction, operation and maintenance of the transmission line. In general, the land can continue to be used as before, provided that the use does not interfere with the transmission line.

- Right-of-way and easements will vary depending upon line segment and location
- Typical right-of-way is 75 ft. from the centerline on both sides

- ✓ Land surveys & studies
- ✓ Access roads
- ✓ Structure/line design

- ✓ Right-of-way clearing
- ✓ Compensation
- ✓ Property restoration





## Vegetation Management

Safety and reliability are the driving factors behind managing trees, and other forms of vegetation, around our transmission lines. Trees and other vegetation can damage the line and hinder our ability to deliver electric services safely and reliably. They can make the job of storm restoration more difficult, extend restoration times and pose additional hazards to line crews.

To protect the public and reduce the risk of extended power outages, Ameren has a vegetation management program designed to ensure proper clearances around the lines as required by federal and state agencies. The program reduces the potential for damage and allows access for crews to maintain and repair transmission equipment.

This vegetation management work may include:

- ✓ Inspections
- ✓ Mowing
- ✓ Manual and aerial trimming





### Construction

Construction will begin in 2027.

Transmission line construction is completed in intermittent phases and will not be constant on landowner property. We will provide more information before construction begins on any landowner property.

On most structures, there will be six major stages of construction.



Surveys, soil borings, vegetation management and access roads



Assemble structure on the ground



Dig structure holes



Lift structure into hole and backfill with concrete



String wires



Energize line and restore easement



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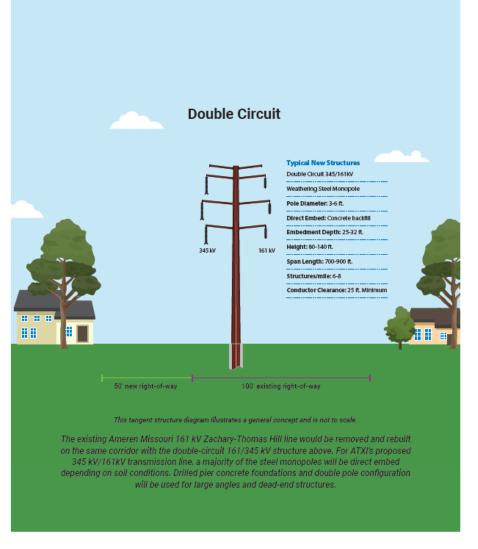
# What's Happening in Your Community



## Zachary-Thomas Hill Line Segment

- Approx.44 miles
- Located in Adair, Macon & Randolph counties
- Removal of existing H frames
- Rebuilt double circuit steel monopole 345/161 kV



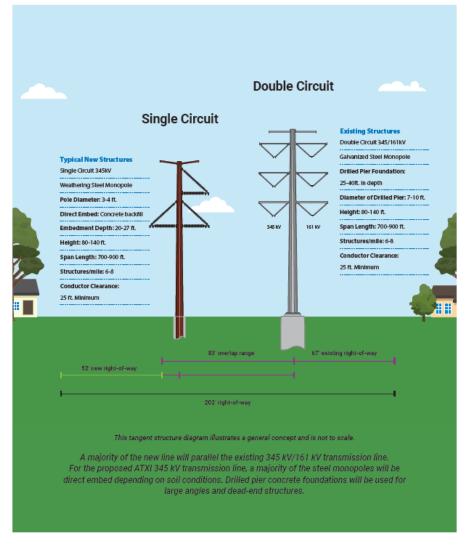




## Zachary-Maywood Line Segment

- Approx.60 miles
- Single 345 kV
- Located in Adair, Knox, Lewis & Marion counties
- Majority of line segment parallels existing corridor with overlapping easements

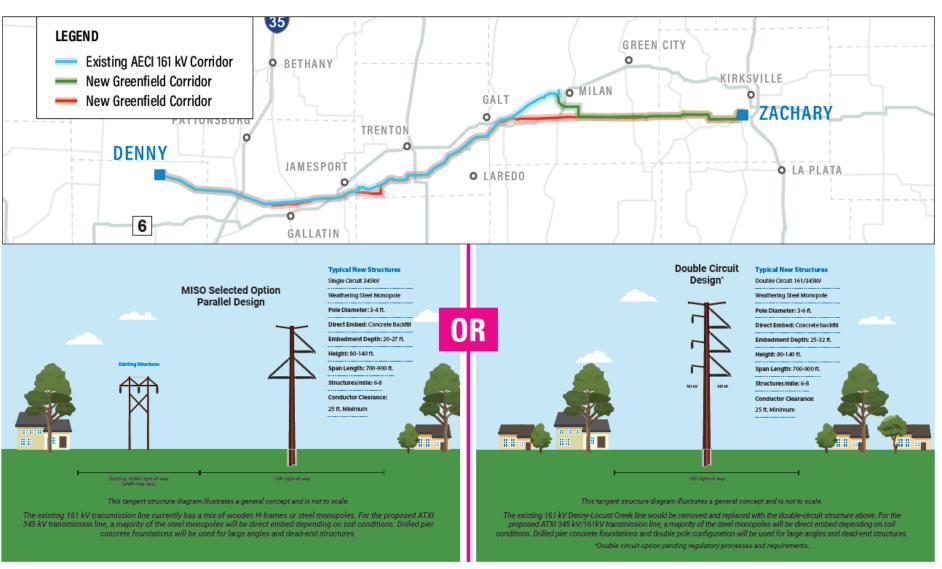






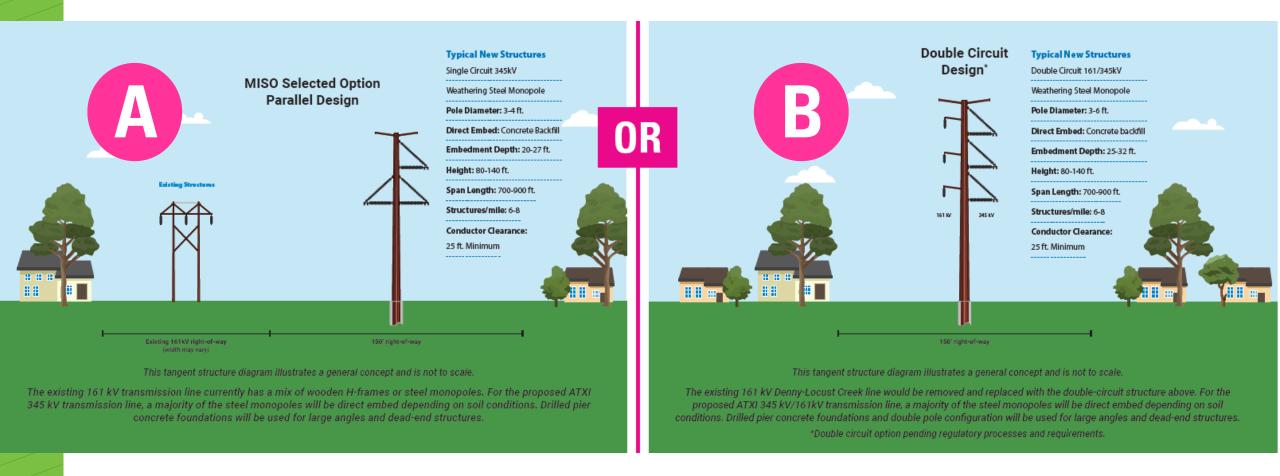
## Denny-Zachary Line Segment

- Approx. 102-105 miles
- Located in DeKalb, Daviess, Grundy, Sullivan & Adair counties
- Single 345 kV
   paralleling
   existing/new line
   (MISO selected)
  - <u>OR</u>
- Double circuit 345kV/161kV (regulatory req.\*)





## Give us your feedback!- CLICK HERE







## Thank You!

#### We appreciate your time and feedback provided today!

connect@AmerenGridMO.com | 833.799.1633 | Ameren.com/NorthernMOGrid

