



Midwest Transmission Project

*Delivering Reliable Power
Connecting to the Future*



Julie Shull
KCP&L Project Director

EXECUTIVE SUMMARY

- Transource Missouri and Omaha Public Power District joint construction and ownership project
- One of six (6) SPP authorized Priority Projects for the region
- Costs and benefits for the project shared among SPP members
- A new 180 mile 345 kV transmission line connecting:
 - Sibley, MO northeast to Maryville and on to Nebraska City, NE
- A new 345 kV substation near Maryville (Mullin Creek Substation)
- Original Schedule/Cost
 - In-Service Date: June 2017
 - Estimated Cost: \$332 million (Missouri portion)
- ***Final Schedule/Cost***
 - ***In-Service Date: December 15, 2016 (6-months ahead of schedule)***
 - ***Final Cost: Approximately \$250 million (\$82 million below original budget)***



MPSC Regulatory Approvals

- **File No. EO-2012-0367**
 - 8/31/2012 Application to transfer certain transmission property from KCP&L/GMO to Transource Missouri
 - 11/7/2012 Order Consolidating Files (lead EA-2013-0098)
- **File No. EA-2013-0098**
 - 8/31/2012 Transource Missouri line CCN Application for Iatan-Nashua 345 kV and Sibley-NE City 345 kV transmission lines
 - MPSC Report & Order granting CCN and transfer issued 8/7/2013, Effective 9/6/2013
- **File No. EA-2016-0188**
 - 1/19/2016 Transource Missouri CCN Application for Rock Creek Wind Project switchyard
 - Order Granting CCN, Effective 4/16/2016
- **File No. EA-2016-0190**
 - 7/22/2016 Transource Missouri CCN Application for Osborn Wind Energy Center switchyard
 - Order Granting CCN, Effective 10/15/2016

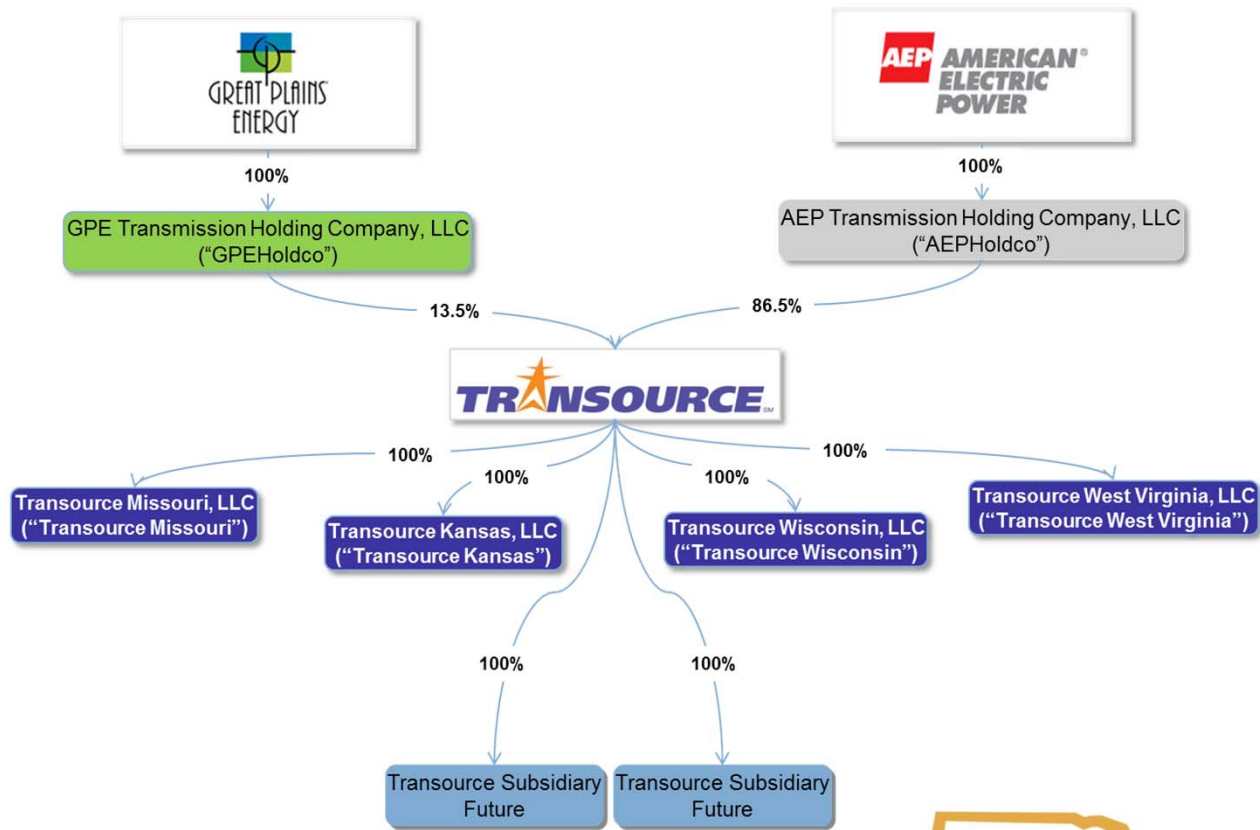


BENEFITS OF MTP

- Reduced grid congestion and lower Locational Marginal Prices helping lower costs to customers
- Increased grid reliability and stability
- Improved energy transfer capability for future needs
- Enabling of large-scale renewable energy resources in Missouri & Nebraska



MTP OWNER (Missouri side)



PROJECT MANAGEMENT APPROACH

- Executed within KCP&L's large construction management team and processes
- Maintained disciplined cost and schedule controls
- Utilized Transource's full capabilities and resources:
 - Leveraged Transource partnership with American Electric Power for full project scope and activities
 - Implemented best practices for routing, siting, procurement and construction



HIGH LEVEL SCHEDULE

- Final Route selected – June 2013
- Land acquisition completed – Spring 2015
- Environmental permits completed – Summer 2015
- Construction completed – October 2016
- In-service – December 2016



STAKEHOLDER ENGAGEMENT/ ROUTE SELECTION PROCESS

KCP&L's execution team followed its strong outreach program to all stakeholders

- Advisory Groups
- Elected Officials/Local Leaders
- Agencies
- Landowners



We want the community to understand that we care and are a trusted energy provider



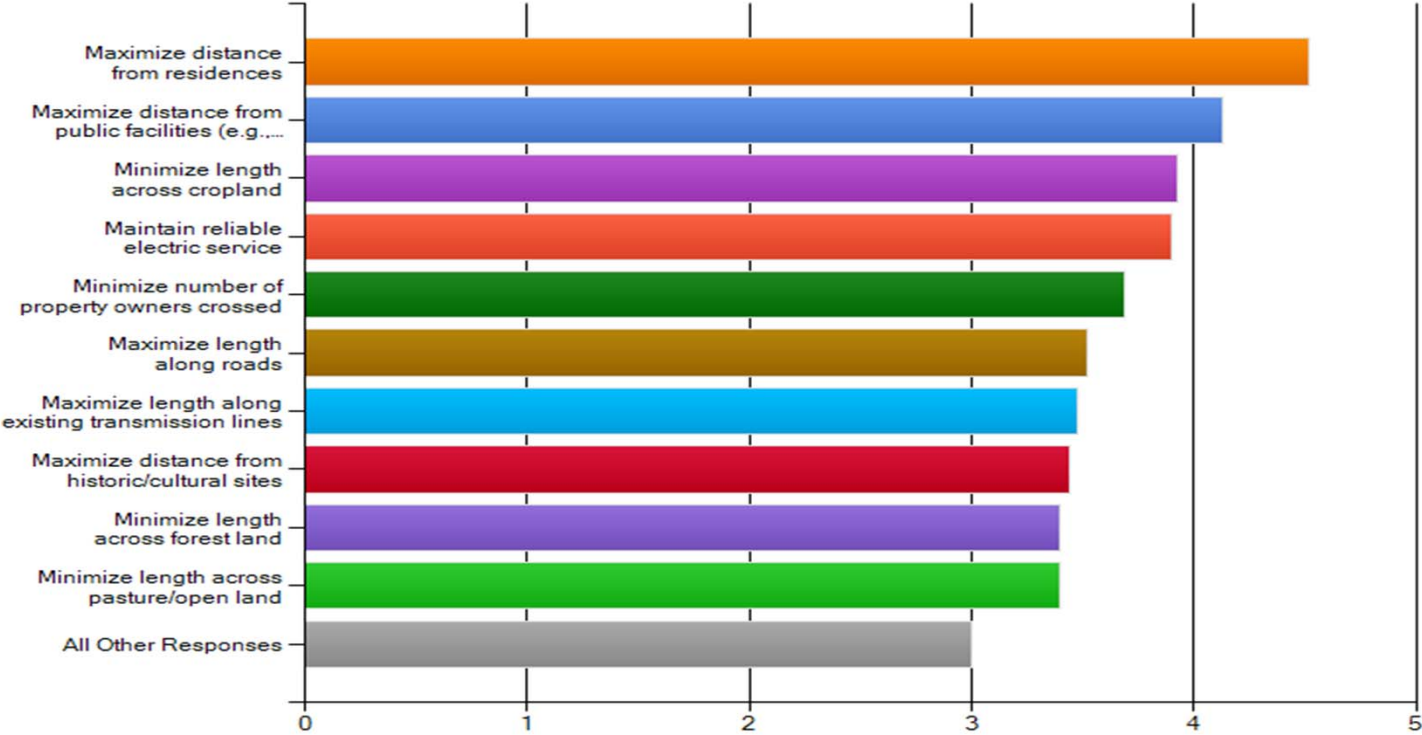
OPEN HOUSE MEETINGS

- 3 Rounds
- Held over 1 ½ years
- 1896 attendees
- 1475 questionnaires returned
- MPSC involvement to ensure inclusion and awareness of process

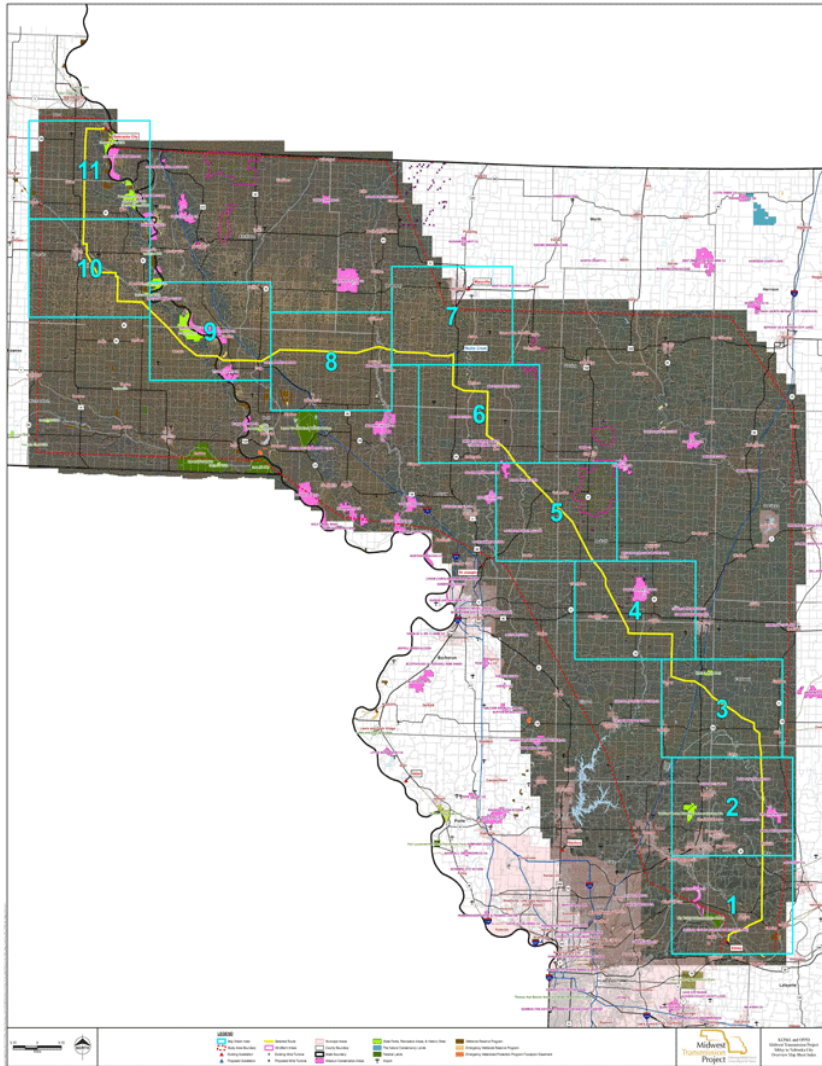


ROUTING CRITERIA

What is your most important concern with this project?



FINAL ROUTE – June 2013



- 180 miles (135 in MO)
- 11 counties (7 in MO)
- 2 Missouri River Crossings
- Approximately 560 landowners

POSITIVE OUTCOMES

- Final route that minimizes impacts to landowners, community and environment
- Low condemnation rate (12%)
- Engaged landowners
- Knowledgeable local leaders



STAKEHOLDER ENGAGEMENT

- Individual landowner interactions
- Website (www.midwesttransmissionproject.com)
- Quarterly newsletter (OPPD)
- County commission meetings
- Quarterly updates to MPSC



ENVIRONMENTAL SURVEYS

- Over 104 miles of biological surveys relating to the Indiana Bat (endangered species)
- One bat was found and the line was routed around the identified nest tree



CONSTRUCTION

- Single Pole, Tubular Steel
- 843 Structures
- 2 Missouri River Crossings
- Over 1000 miles of wire



LOCAL HIRE AND SPEND

- Local contractor provided line construction services
- 4 laydown yards with local hires; local firms hired for yard security, engineering, construction, and equipment rental
- Tree clearing and restoration—20% local hires
- All concrete supplied by local firms
- All right-of-way surveying conducted by local firms



PROJECT STATUS

- Line construction is complete
- Line was energized and placed into service on December 15
- Initial Budget: \$332 million, Projected Cost: \$250 million
- Cost impacted by reduction in line miles in MO and competitive bidding of most materials and services
- Original Schedule: June 2017, Final Schedule: Dec 2016



PROJECT STATUS

- Two wind facilities connecting to this line are also being finalized:
 - NextEra's Osborn 200.1 MW facility in Dekalb County
 - In-Service –
December 15, 2016
 - Enel's Rock Creek 300 MW facility in Holt County
 - Expected to deliver energy
Summer 2017





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