

# Meet the MTP

The Midwest Transmission Project (MTP) is the largest transmission project OPPD has undertaken in nearly 10 years. The 345-kV transmission line is a partnership with Kansas City Power & Light. Read on to learn more.

## PROJECT TIMELINE

- June 30, 2010**  
Notice to construct received from SPP
- Oct. 15, 2010**  
OPPD issues an updated cost estimate to SPP for a 345-kV transmission line and modifications to a substation
- March, 2010**  
OPPD and Kansas City Power & Light (KCP&L) submit a preliminary cost estimate to the Southwest Power Pool (SPP) for a transmission line from OPPD's Nebraska City substation through Maryville, Mo., to Sibley Power Station in Kansas City
- April, 2012**  
Joint OPPD/KCP&L routing consultant under contract
- Jan. 1, 2012**  
Memorandum of understanding between OPPD and KCP&L executed
- July and August, 2012**  
First series of public hearings were held for residents of the area of the proposed route
- Nov. 2, 2012**  
Route network determined
- December 2012, January 2013**  
Second series of public hearings held for residents in the area
- March 22, 2013**  
Refined route network determined
- April and May, 2013**  
Third round of public meetings held for residents
- July 8, 2013**  
OPPD and HDR begin making initial contacts with land-owners regarding land rights
- June 25, 2013**  
Project route selection completed, including 45 miles in Nebraska, crossing the Missouri River near Barada, Neb.
- Jan. 29, 2014**  
Environmental review submitted to agencies in Nebraska and Missouri
- May 2014**  
A series of public hearings are held regarding the transmission line
- June 2014**  
Survey of northern long-eared bats in the area begins in both Nebraska and Missouri
- July 24, 2014**  
Two northern long-eared bats detected near OPPD Nebraska City Station and are outfitted with radio transmitters
- July 18, 2014**  
Transmission material storage yard/office selected in Auburn
- Aug. 12, 2015**  
Bat study field work complete
- Sept. 8, 2015**  
Contractor begins transmission construction
- Sept. 21, 2015**  
Contractor begins construction at Nebraska City substation
- June, 2016**  
KCP&L completes river crossing construction
- Oct. 29, 2016**  
Substation construction complete
- Dec. 13, 2016**  
Transmission line energized

## WHAT?

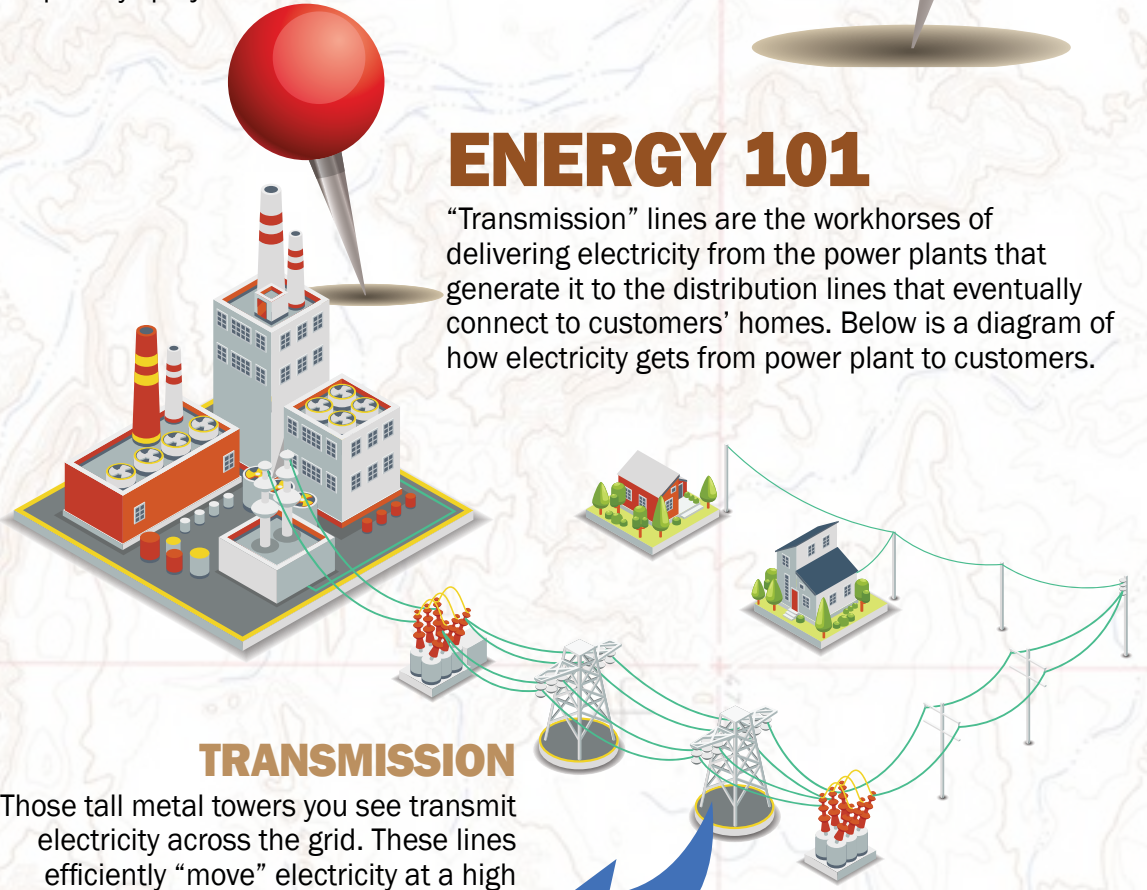
MTP is a 345-kV transmission line that runs from Missouri to Nebraska. It is one of the Southwest Power Pool (SPP) regional transmission organization's "priority" projects.

## WHY?

SPP determined a need for more capacity to move energy from north to south in the area. This type of transmission line **benefits the reliability** of all OPPD customers.

## ENERGY 101

"Transmission" lines are the workhorses of delivering electricity from the power plants that generate it to the distribution lines that eventually connect to customers' homes. Below is a diagram of how electricity gets from power plant to customers.



### TRANSMISSION

Those tall metal towers you see transmit electricity across the grid. These lines efficiently "move" electricity at a high voltage to distribution lines, at which point the power is "stepped down" to a lower voltage conducive to the electricity used in homes. The MTP structures are part of that transmission system.

### LIKE AN INTERSTATE

The electrical grid is like the interstate highway system – only for electricity. The MTP is like adding another interstate to the system to ease congestion.

## MTP BY THE NUMBERS

**44.6**  
MILES

Nebraska portion of MTP

**267**

Number of structures in the Nebraska portion of MTP

**8.8**  
MILLION

Pounds of steel used (poles, arms and accessories)

## MTP ROUTE



## BENEFITS

### FOR CUSTOMERS

Energizing a line like this **brings even more reliability** to OPPD's electric system, already one of the most reliable in the nation. MTP also allows for more **energy from additional renewable generation** to be transmitted across the grid.

### FOR THE AREA'S COMMUNITIES

Communities like Auburn and Nebraska City saw a large **influx of activity from contractors** working on the project, **from eating lunch in their restaurants to siting an equipment yard**. In total, the area saw an economic impact of approximately

**\$3**  
MILLION

CREDIT: Laura King-Homan

SOURCES: OPPD subject matter experts; past MTP project newsletters; www.123rf.com stock photo icons; OPPD presentation materials

