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.

**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.

**MTP BY THE NUMBERS**

<table>
<thead>
<tr>
<th>Miles</th>
<th>Nebraska portion of MTP</th>
<th>Number of structures in the Nebraska portion of MTP</th>
<th>Pounds of steel used (poles, arms and accessories)</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.6</td>
<td>267</td>
<td>8.8</td>
<td>$3 MILLION</td>
</tr>
</tbody>
</table>

**MTP ROUTE**

**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 substiution
- **April, 2012** Joint OPPD/KCP&L routing consultant under contract
- **Nov. 2, 2012** Route network determined
- **December 2012, January 2013** Second series of public hearings held for residents in the area
- **June 29, 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
- **July 24, 2014** Two northern long-eared bats detected near OPPD Nebraska City Station and are outfitted with radio transmitters
- **Oct. 29, 2016** Substation construction complete
- **Dec. 13, 2016** Transmission line energized
- **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 SPP Power Station in Kansas City
- **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
- **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 landowners regarding land rights
- **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 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
- **Oct. 22, 2016** Transmission construction completed

**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 lining 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