FirstEnergy is proposing new transmission projects to reinforce the electric system in Lake County, Ohio and surrounding counties due to the recent deactivation of power generating stations.

American Transmission Systems, Incorporated (ATSI), a FirstEnergy Company, plans to expand a 138-kilovolt (kV) substation along Leroy Center Road in Leroy Township to connect the existing Harding-Perry 345-kV transmission line into the substation. Expanding the Leroy Center Substation to support the 345-kilovolt configuration will help reinforce the transmission system and enhance electric service in the region.

**Substation Enhancement and Expansion**

Later this year, FirstEnergy plans to install new breakers and associated equipment within the existing fence line of the Leroy Center Substation, located approximately 0.2 miles east of the intersection of Brakeman Road and Leroy Center Road. The estimated project cost of this first phase is approximately $6.3 million. In 2016, the fenced area of the existing substation will be expanded to the east by approximately 6.1 acres to accommodate new 345-kV to 138-kV transformers and associated facilities. The second phase of the project is expected to cost approximately $32.2 million.

**Substation Transmission Lines Reconfiguration**

As part of the Leroy Center Substation Enhancement, FirstEnergy will install six additional 138-kV breakers within the existing Leroy Center Substation fence line. In addition, the existing transmission lines entering the substation from the north will be reconfigured for approximately 160 feet to connect to the new 138-kV breaker arrangement. No new structures will be installed for this portion of the project. The estimated cost of the transmission line reconfiguration project is approximately $350,000.

Continued on back
**HARDING-PERRY 345-kV TRANSMISSION LINE**

The existing Harding-Perry and Inland-Perry 345-kV transmission lines are currently supported on a single set of towers located on the east side of the existing Leroy Center Substation. FirstEnergy plans to connect the existing Harding-Perry 345-kV Transmission Line into the expanded substation, while the Inland-Perry 345-kV Transmission Line will be reconfigured to pass over the substation. The estimated cost of the transmission line project is approximately $1.4 million.

**REGULATORY APPROVAL**

FirstEnergy’s ATSI subsidiary filed a Construction Notice with the Ohio Power Siting Board for approval to reconfigure existing transmission lines (Leroy Center-Nursery Q11 and Q12 and Ashtabula-Mayfield Q1, Q2, Q3, and Q4 138-kV lines) and a Letter of Notification with the Ohio Power Siting Board for approval to connect the Harding-Perry 345-kV transmission line and to expand the Leroy Center Substation.

**SITING**

The proposed project was selected to meet reliability needs while minimizing its impact on communities and the environment. No additional property or right-of-way easements are expected to be required for this project. The substation expansion will occur within utility-owned property. The majority of the transmission line work will also take place on this property, with some activities occurring along the existing right-of-way south of the substation.

**CONSTRUCTION**

Reconfiguration of the 138-kV transmission lines construction is expected to begin in November 2014 with an in-service date of March 1, 2015. The 345-kV transmission line and substation construction is expected to begin in March 2015 with an in-service date of June 1, 2016.

**PRELIMINARY PROJECT TIMELINE**

<table>
<thead>
<tr>
<th>Period</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early 2014</td>
<td>Routing study/environmental studies</td>
</tr>
<tr>
<td>September 2014</td>
<td>Construction notice and Letter of Notification filed with the Ohio Power Siting Board</td>
</tr>
<tr>
<td>March 2015</td>
<td>Permits received/construction began on substation expansion and transmission lines</td>
</tr>
<tr>
<td>June 1, 2016</td>
<td>PJM requested in-service date</td>
</tr>
</tbody>
</table>

**ABOUT ENERGIZING THE FUTURE**

*Energizing the Future* is a $4.2 billion transmission initiative through 2017 that involves upgrading and strengthening the grid to meet the future demands of our customers and communities. Key factors driving this major investment in our transmission system include replacing existing equipment with advanced technologies designed to enhance system reliability; meeting projected load growth driven primarily by shale gas-related activity in our region; and reinforcing the system in light of power plant deactivations.

For more information, visit firstenergycorp.com/transmission.