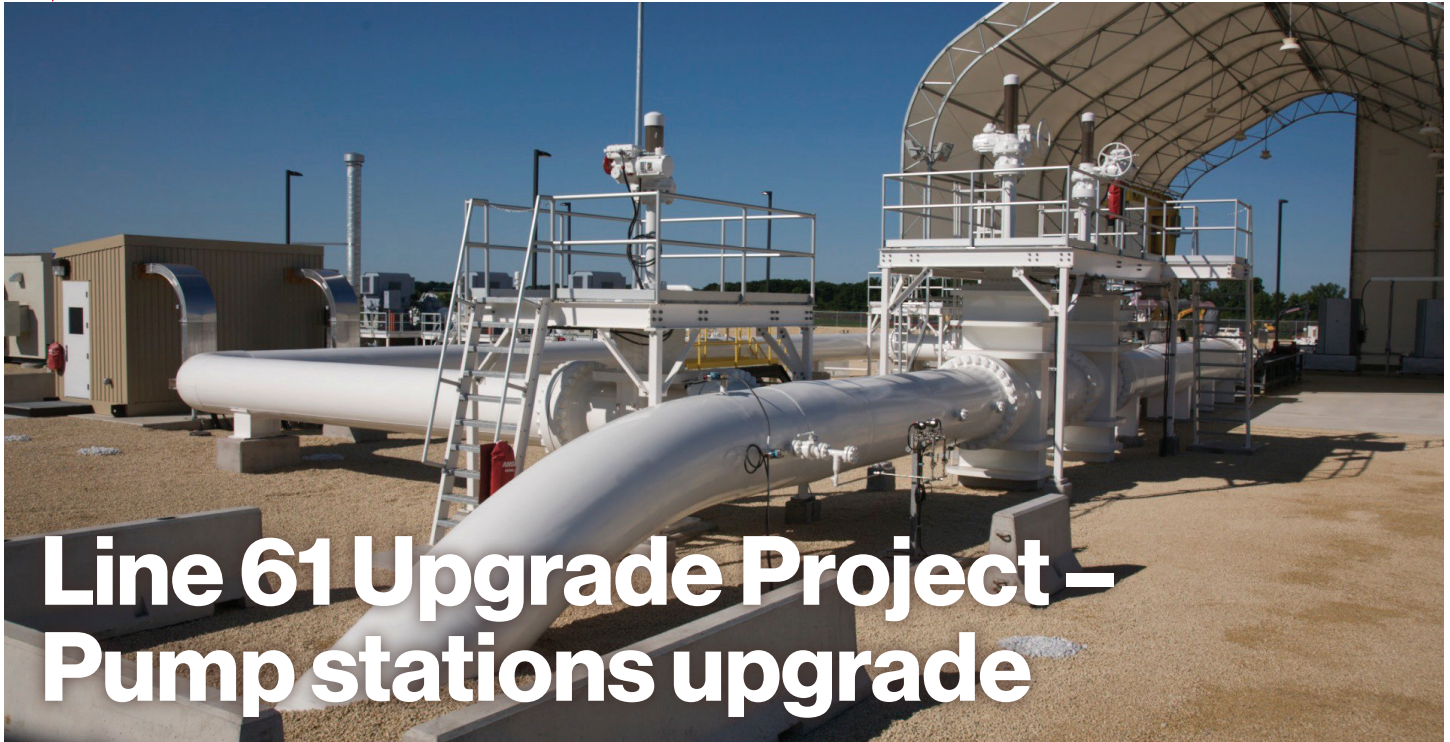


**Expanding safe and reliable access to North American crude oil.**



# Line 61 Upgrade Project – Pump stations upgrade

As part of ongoing efforts to meet North America's needs for reliable and secure transportation of petroleum energy supplies, Enbridge Energy Partners, L.P., through its affiliate, Enbridge Energy, Limited Partnership ("Enbridge"), is constructing new pump stations to bring the average annual capacity of Line 61 ("Line 61 Upgrade Project") to its ultimate 1.2 million bpd. Line 61 is a 42-inch-diameter crude oil pipeline (referred to as "Southern Access Pipeline Project" during construction) that became operational in 2009 and spans from Enbridge's terminal in Superior, Wisconsin, to Enbridge's Flanagan Terminal near Pontiac, Illinois.

Increasing Line 61's average annual capacity to 1.2 million bpd involves the construction or modification of pump stations in Wisconsin and Illinois (see locations identified on the map on side two of this handout). These expansions will help generate benefits for local

economies by providing temporary jobs, increasing tax revenue and supporting businesses through the purchase of local goods and services, lodging, food, supplies and equipment during construction.

## **Pump Stations**

Pump stations play a vital role in moving crude oil through the Enbridge pipeline system. Pump units are designed to maintain flow at adequate levels through the pipeline.

The pumping upgrades that will be completed as part of the Line 61 Upgrade Project will provide additional power to increase the amount of crude oil that can be transported in the pipeline.

All work will be performed on property that is owned or acquired in fee by Enbridge. Pump stations contain one or more electrically driven pumping units to keep flow within safe operating limits of the pre-tested pipeline.

## **Line 61 Upgrade Project – Wisconsin and Illinois Pump Stations**

**Ownership:** Enbridge Energy, Limited Partnership

**Facility upgrades:** This capacity expansion requires the construction or modification of pump stations on property owned or acquired in fee by Enbridge.

**Capacity:** Expand average annual capacity of Line 61 from:  
Phase 1: 400,000 bpd to 560,000 bpd  
Phase 2: 560,000 bpd to 1.2 million bpd

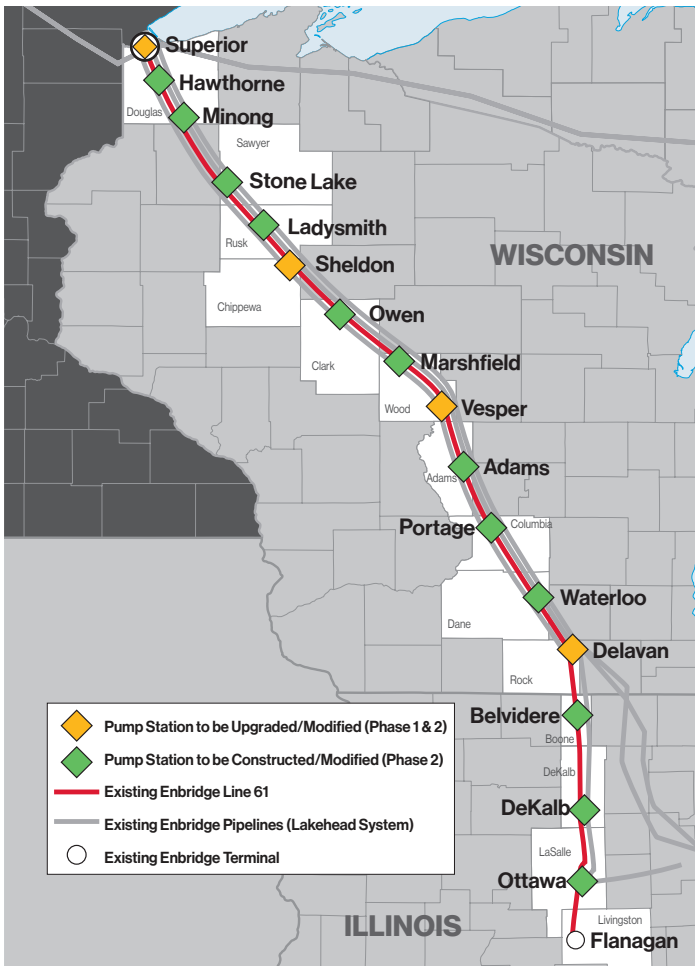
**Construction:**  
Phase 1: Began in summer 2013  
Phase 2: Began construction in spring 2014

**In-service date:**  
Phase 1: September 2014  
Phase 2: Late 2015

### **> Learn more about the Line 61 Upgrade Project**

- [Enbridge.com](http://Enbridge.com)
- Toll-free phone number: (855) 788-7809
- Email: [MainlineEnhancements@enbridge.com](mailto:MainlineEnhancements@enbridge.com)





## Maintaining Safe, Reliable Pipelines

Enbridge builds safety into every step of pipeline design, construction and operations, and many preventive measures are taken to promote the safe, reliable operation of our liquid petroleum and natural gas liquids pipelines and related facilities. Experienced engineers, manufacturers and specialists plan, design, construct and operate pipeline systems to meet or exceed a host of national industry standards, codes, federal regulations, applicable state and local requirements.

Pipelines are built with high-quality steel pipe tested for strength at the factory and again in the field. The pipe is coated with anti-corrosive, fusion-bonded materials and further protected from corrosion by cathodic protection systems. Enbridge inspects every weld, far exceeding the required 10 percent sampling mandated by federal regulation. Field welds are also coated with anticorrosion coating. Before operation begins, the pipeline is pressure tested with water at levels above the authorized operating pressure. Federal pipeline safety inspectors from PHMSA check for compliance during construction and periodically during operations of the pipeline.

The pipeline is monitored 24-hours a day by our computerized Pipeline Control System and trained controllers. In the event there is an abnormal change in pressure or flow rates alarms are sounded, and the Pipeline Control System can either automatically initiate pump shut down, or control room operators will safely shut down the pipeline within minutes and mobilize trained field personnel to investigate. Mainline block valves, all of which can be remotely controlled, allow for the isolation of pipe segments and the protection of rivers and lakes. Enbridge has recently invested in a new pipeline control center, additional leak detection and training towards our goal of zero leaks or accidents.

More information on pipeline operation and regulation is available at [www.pipeline101.org](http://www.pipeline101.org).

## Project Benefits

- New capital investment in America's energy infrastructure to help meet this and future generations' energy needs.
- Increased access to long-term, reliable and economical supplies of crude petroleum produced in North America.
- Increased pipeline capacity to transport crude petroleum produced in North America as production in some regions increase and U.S. refineries turn to these growing supplies to fulfill a larger portion of their crude supply needs, thus reducing reliance on imports from less stable areas of the world.
- Increased flexibility in the Midwest and beyond, benefiting Midwestern refineries and consumers.
- Employment for professionals and new business for contractors hired to assist in the design, survey, environmental assessment and project planning processes.
- Economic activity through purchases of local products, services, lodging, food and supplies during construction.
- Additional economic activity, such as tax revenues, associated with ongoing pipeline operations.
- Optimizing use of existing facilities to provide additional energy capacity to the Midwest and beyond.