Maintaining safe and reliable access to North American crude oil.



Crude oil is refined into petroleum products we use every day – from fuel for our cars to heating oil for our homes, to the clothes we wear and the household products we buy.

Enbridge has been safely and reliably transporting crude oil to U.S. refineries through its pipelines for decades. Built in the 1960s, Line 3 is part of the Enbridge crude oil pipeline system known as the Mainline System. Line 3 is a 1,097mile pipeline from Edmonton, Alberta to Superior, Wisconsin and currently operates below its designed capacity.

Enbridge is proposing to replace Line 3 to maintain high safety standards, reduce future maintenance activities and the resulting disruptions to landowners and the environment, as well as to provide long-term reliable delivery of North American crude oil. This is an integrity and maintenance driven program.

The U.S. portion of the Line 3 Replacement Program is referred to as the Line 3 Replacement "Project." The Project includes installing a 36inch diameter pipeline to replace the existing 34-inch diameter pipeline generally along the existing Line 3 pipeline corridor from Joliette, North Dakota to Clearbrook, Minnesota, and generally along existing utility corridors running parallel to the proposed preferred Sandpiper pipeline route from Clearbrook to Superior, Wisconsin.

Line 3 will continue to operate while the replacement pipeline is being installed to ensure the needed supplies of crude oil reach markets throughout North America. The replaced pipeline will be permanently removed from operation, or 'deactivated', once the replacement pipeline is installed, tested, and commissioned for service. To see a video about the Line 3 deactivation process, visit: **minnesotaprojects. enbridge.com/line3deactivation**.

Project Cost

Overall cost of the pipeline project, including deactivation of the existing pipeline and associated station and terminal facilities, is estimated at \$2.6 billion in the U.S, with the Minnesota portion of the Replacement Project accounting for approximately \$2.1 billion.

Line 3 Replacement Project – Joliette, ND to Superior, WI

Ownership: Enbridge Energy, Limited Partnership

Length: 364 miles in the U.S.

Pipe: 36-inch diameter

Construction: Pending regulatory approval, 2018-2019

In-service date: early 2019

Project timing: Pending receipt of regulatory and associated permit approvals, construction will begin in 2018 with Line 3 in service in early 2019. We will update individual landowners and other stakeholders as we move through the planning and regulatory process. Pre-construction activities, including surveying, land acquisition, engineering and design, began in 2014.



— Enbridge.com/L3andSPP



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Project Need

This purpose of the Project is two-fold:

- Reduce future repair activities and resulting disruptions to landowners and the environment; and,
- Restore the historical operating capabilities of Line 3, to support North American energy independence.

Project Benefits

Installing new facilities will bring added property tax revenue to Minnesota communities, as well as provide an influx of sales taxes from locally purchased materials and equipment. Thousands of skilled workers and laborers will be needed during peak construction periods resulting in increased local employment opportunities. Many workers will be drawn from the local workforce.

Regulatory Oversight and Permitting

Interstate liquid petroleum pipelines are regulated by various federal and state laws and regulations. Comprehensive national standards, federal laws and regulations have been developed over many decades that prescribe the design, construction, operation and maintenance of liquid petroleum pipelines. The agency exclusively responsible for regulating interstate crude oil pipeline safety is the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration's Office of Pipeline Safety, as designated in the Pipeline Safety Act. A number of other federal and state regulatory agencies are involved in the planning and permitting of the Line 3 Replacement Pipeline Project.

More information on pipeline operation and regulation is available at **www.pipeline101.org**.

Maintaining Safe, Reliable Pipelines

Enbridge builds safety into every step of pipeline construction and operations. Preventive measures are taken to promote the safe, reliable operation of our liquid petroleum pipelines and related facilities, including:

- Using high-quality steel and anti-corrosion coatings when constructing our pipelines;
- Installing cathodic protection (a low-level electrical charge) to inhibit corrosion;
- Testing new and existing pipelines in accordance with regulation;
- Regularly inspecting the inside and outside of the pipeline with sophisticated tools;
- · Conducting preventive maintenance and inspection;
- 24-hour pipeline monitoring from Enbridge's control center, which has remote shutdown capabilities and can monitor pipeline pressures and conditions during operation;
- Clearly marking the location of the pipeline and participating in the national one-call program;
- Completing regular ground and aerial inspections of the rightof-way;
- Providing public awareness safety information to emergency responders, local public officials, excavators and those who live and work along our pipelines.