



# The Mainline pipeline system

**Critical energy infrastructure ensures safe and reliable energy supply for North American consumers**

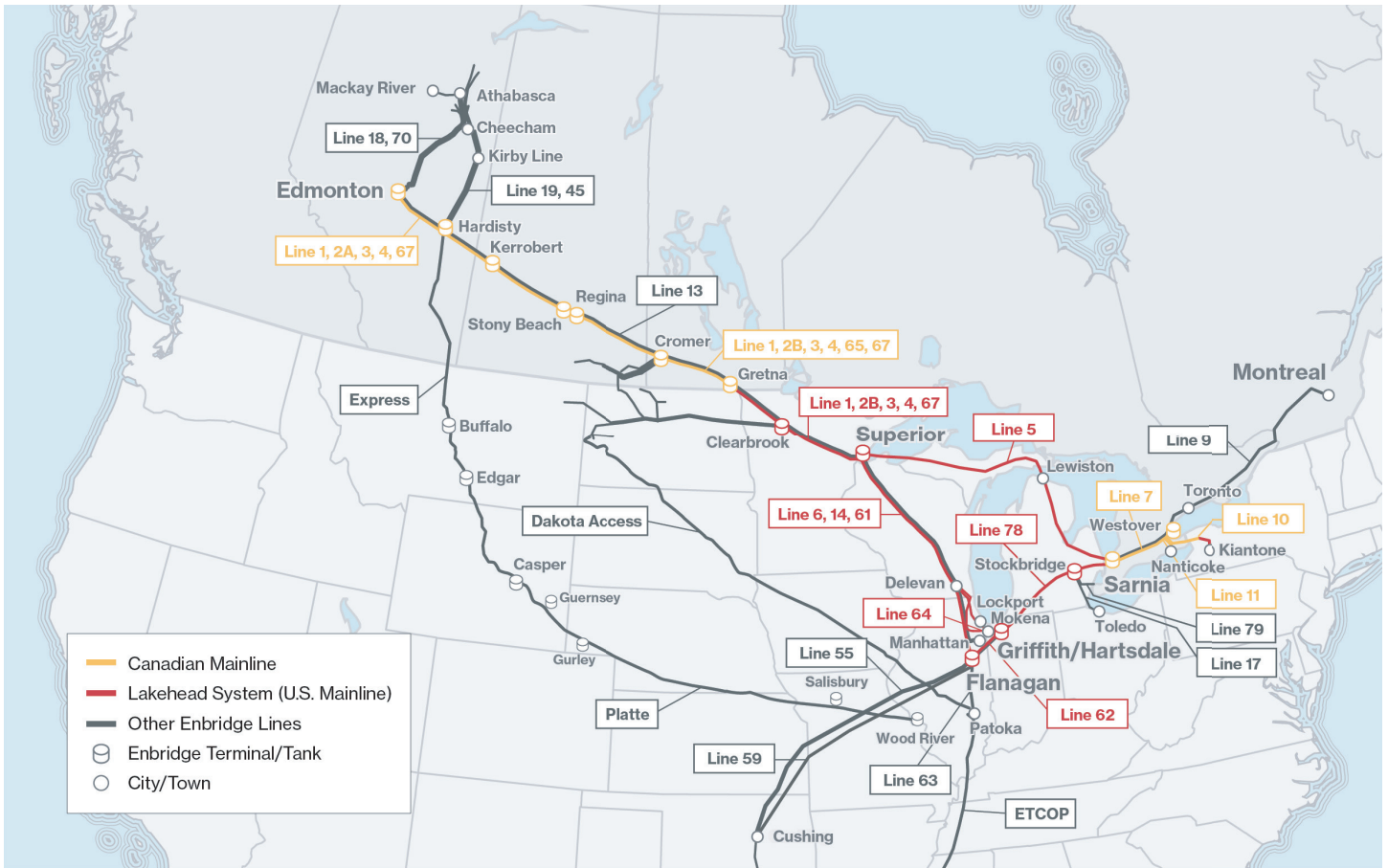
**With more than 13,800 kilometers (nearly 8,600 miles) of active pipe, Enbridge's Mainline pipeline network has the capacity to transport 2.85 million barrels a day of light and heavy crude oil from Edmonton, Alberta to the U.S. Midwest and Ontario.**

This sophisticated pipeline infrastructure network carries a variety of crude oil types, including production from the Canadian oil sands and natural gas liquids, to refineries across North America. The Mainline is Canada's largest crude oil transportation system and plays a critical role in providing safe and reliable energy supply for North American consumers.

Enbridge's Mainline network includes the Canadian Mainline system, which includes several pipelines running from Edmonton to the Canada-U.S. border at Gretna, Manitoba, and the Lakehead System or U.S. Mainline, which carries on to Clearbrook, MN and Superior, WI,

and delivers crude to markets in Minnesota, northern Illinois, Indiana, Ohio, Michigan and southern Ontario. Other Enbridge market access pipelines serve markets in the U.S. Gulf Coast, Oklahoma, southern Illinois, and Quebec.

The first pipeline in the Mainline network, Line 1, connected Edmonton to Superior and was built in 1950, in the wake of the Leduc, Alberta oil discovery that signaled the birth of the modern Canadian industry. Since then, numerous additional lines have been built to meet consumer demand and rigorously maintained to ensure the continued safe operational reliability of the system.



## Market access and Mainline optimization

In all the years of change and growth, one certainty has remained: delivering safe and reliable solutions for our customers is the foundation of Enbridge's business.

Between 2013 and 2017, Enbridge successfully placed into service more than 1.1 million barrels per day (bpd) of new pipeline capacity upstream of Superior and more than 1.65 million bpd downstream of Superior.

These market access projects have enabled production growth from the Western Canada Sedimentary Basin and Bakken regions to move to prime markets and have provided the flexibility to optimize operations of the Mainline system to become even more safe and reliable.

At the same time, there continues to be strong demand from Enbridge's customers to optimize throughput on the Mainline system.

Given the multi-pipeline configuration of the Mainline system, several low cost optimization and expansion opportunities are available. These enhancements could potentially provide incremental capacity of more than 350,000 bpd out of Western Canada and the Bakken region to North American refiners.

