

Crude-By-Rail Overview

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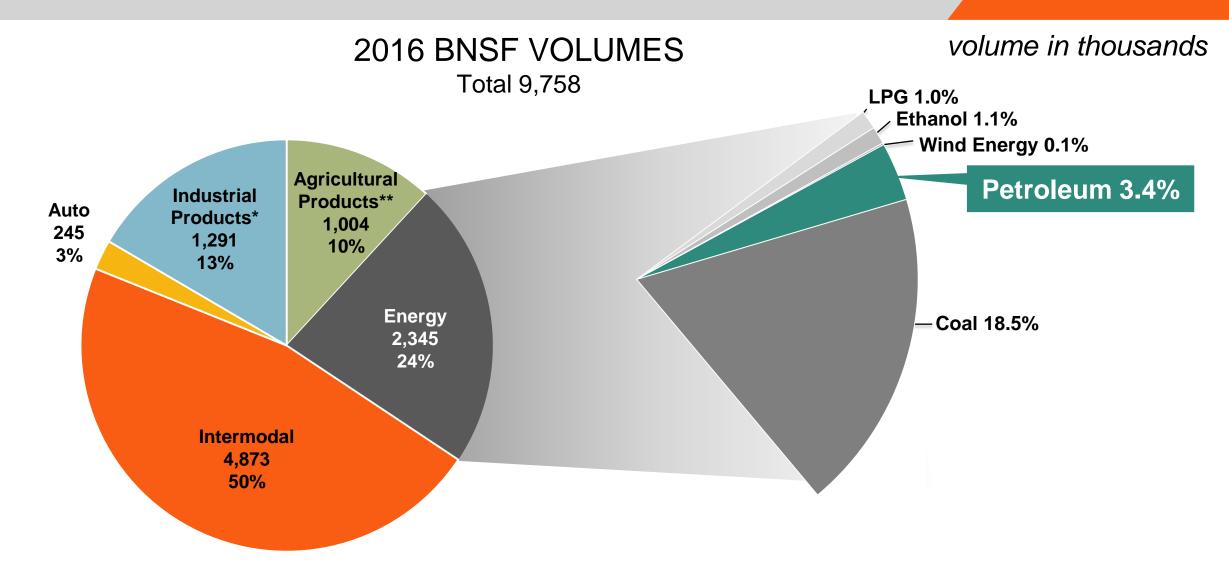
Teresa Perkins

ASSISTANT VICE PRESIDENT, PETROLEUM PRODUCTS

JULY 25, 2017

BNSF Volume Overview

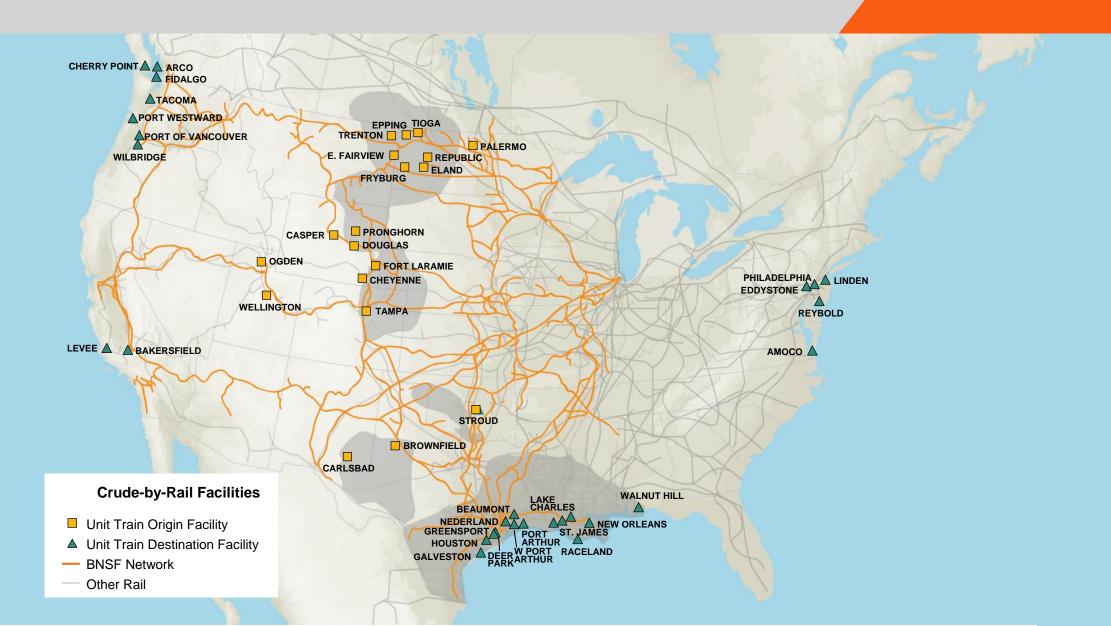




Source: BNSF internal data, *less petroleum, LPG and wind, **less ethanol

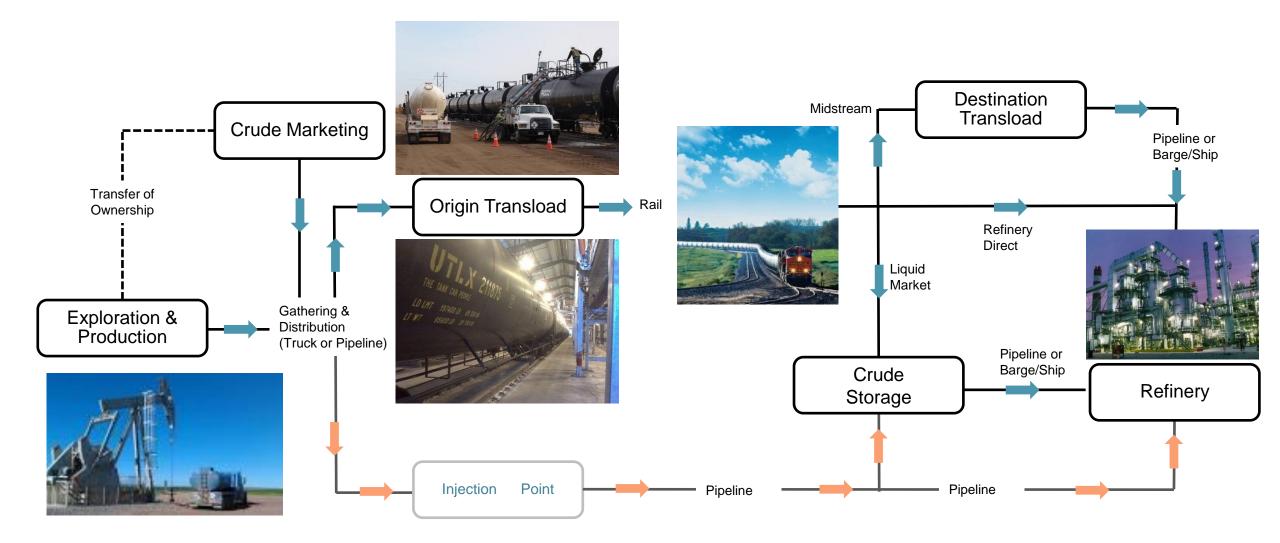
Flexible Crude Network





Rail in the Crude Oil Supply Chain





Value Proposition of Crude-by-Rail

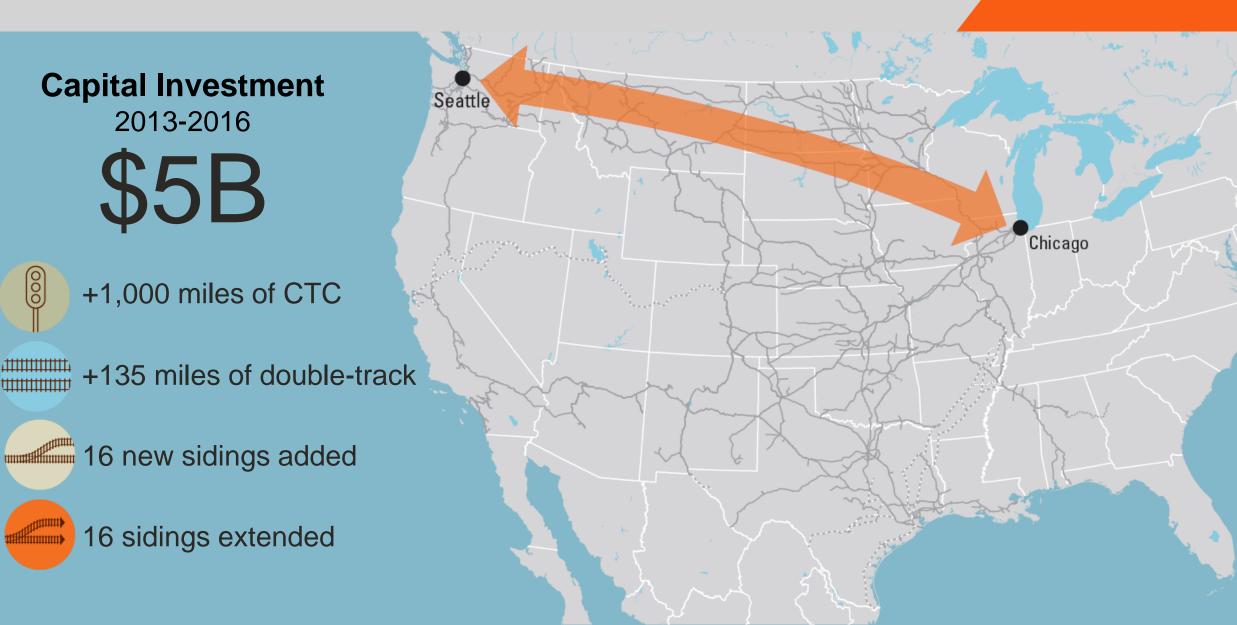


RAILWA

Enhancing Capacity: Northern Corridor

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BNSF's Approach to Safety





Safe & Reliable Crude Oil Rail Transportation

- Rail is one of the safest ways to transport crude oil and hazardous materials
- 99.999% of BNSF shipments of hazardous materials reach their destination without a release caused by a train accident
- BNSF hazmat releases have declined even as volumes have grown

BNSF NUMBER OF HAZMAT SHIPMENTS

BNSF TOTAL HAZMAT RELEASES

