



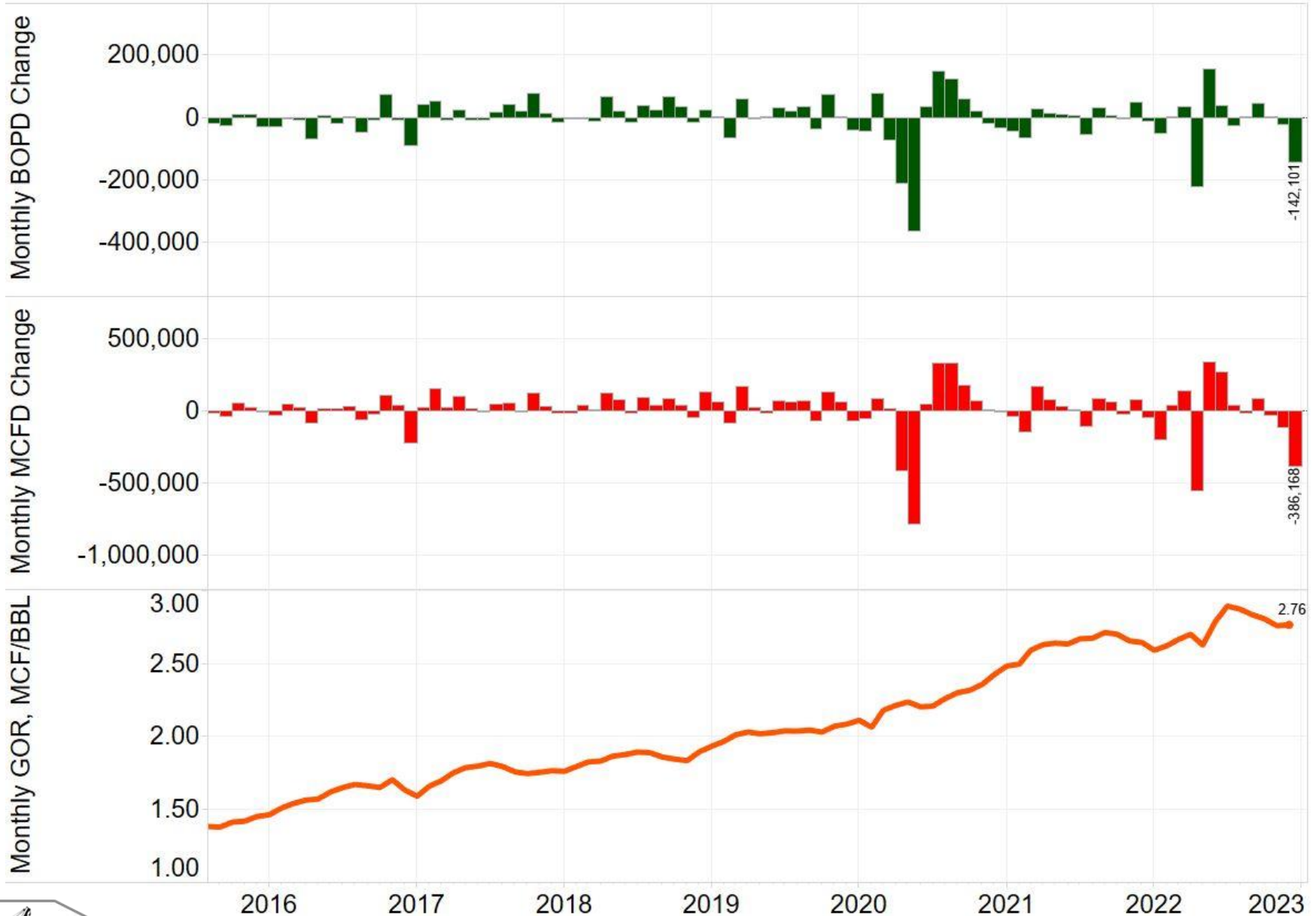
February 2023 Monthly Update
North Dakota Pipeline Authority
Justin J. Kringstad
February 16, 2023

US Williston Basin Oil Production - 2022

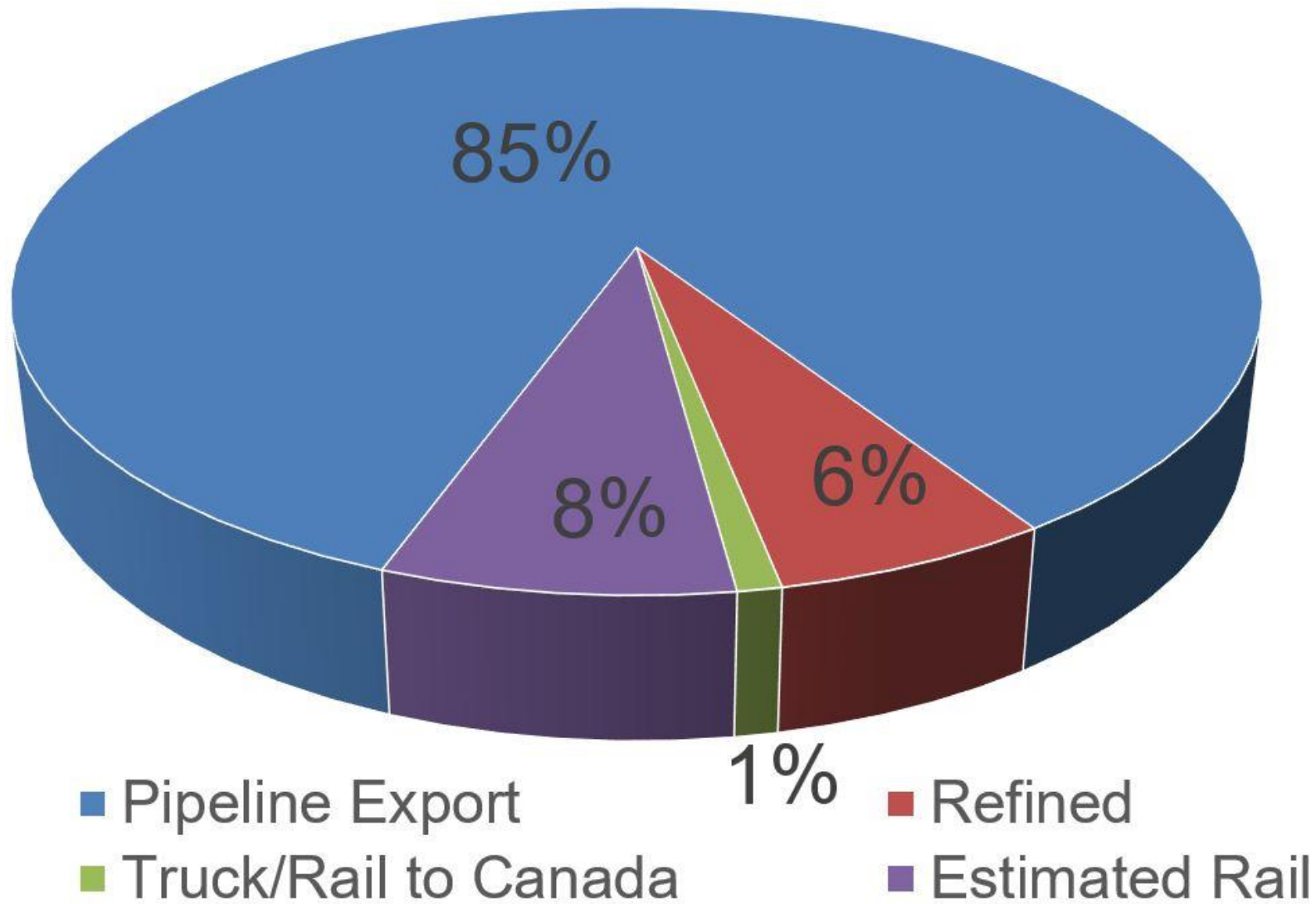
| MONTH | ND | Eastern MT* | SD | TOTAL |
|-----------|-----------|-------------|-------|-----------|
| January | 1,091,932 | 51,859 | 2,709 | 1,146,500 |
| February | 1,095,458 | 51,161 | 2,742 | 1,149,361 |
| March | 1,129,880 | 54,555 | 2,709 | 1,187,144 |
| April | 908,339 | 54,099 | 2,338 | 964,776 |
| May | 1,062,157 | 52,483 | 2,648 | 1,117,288 |
| June | 1,099,408 | 63,258 | 2,764 | 1,165,430 |
| July | 1,073,610 | 60,568 | 2,774 | 1,136,952 |
| August | 1,075,289 | 60,395 | 2,756 | 1,138,440 |
| September | 1,121,063 | 57,637 | 2,679 | 1,181,379 |
| October | 1,121,754 | | 2,621 | |
| November | 1,098,389 | | 2,682 | |
| December | 956,288 | | | |



North Dakota Monthly Production Change



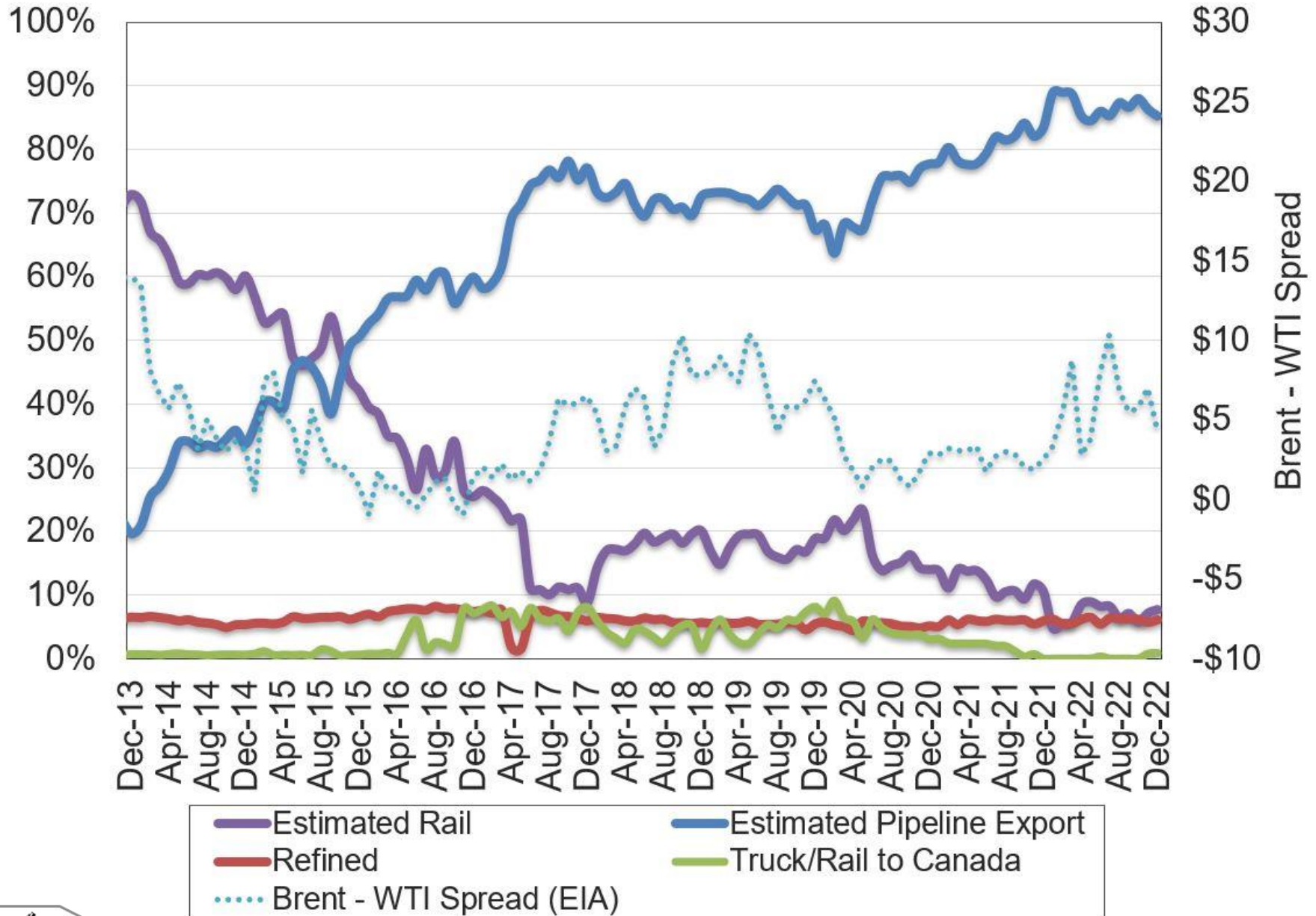
Estimated Williston Basin Oil Transportation



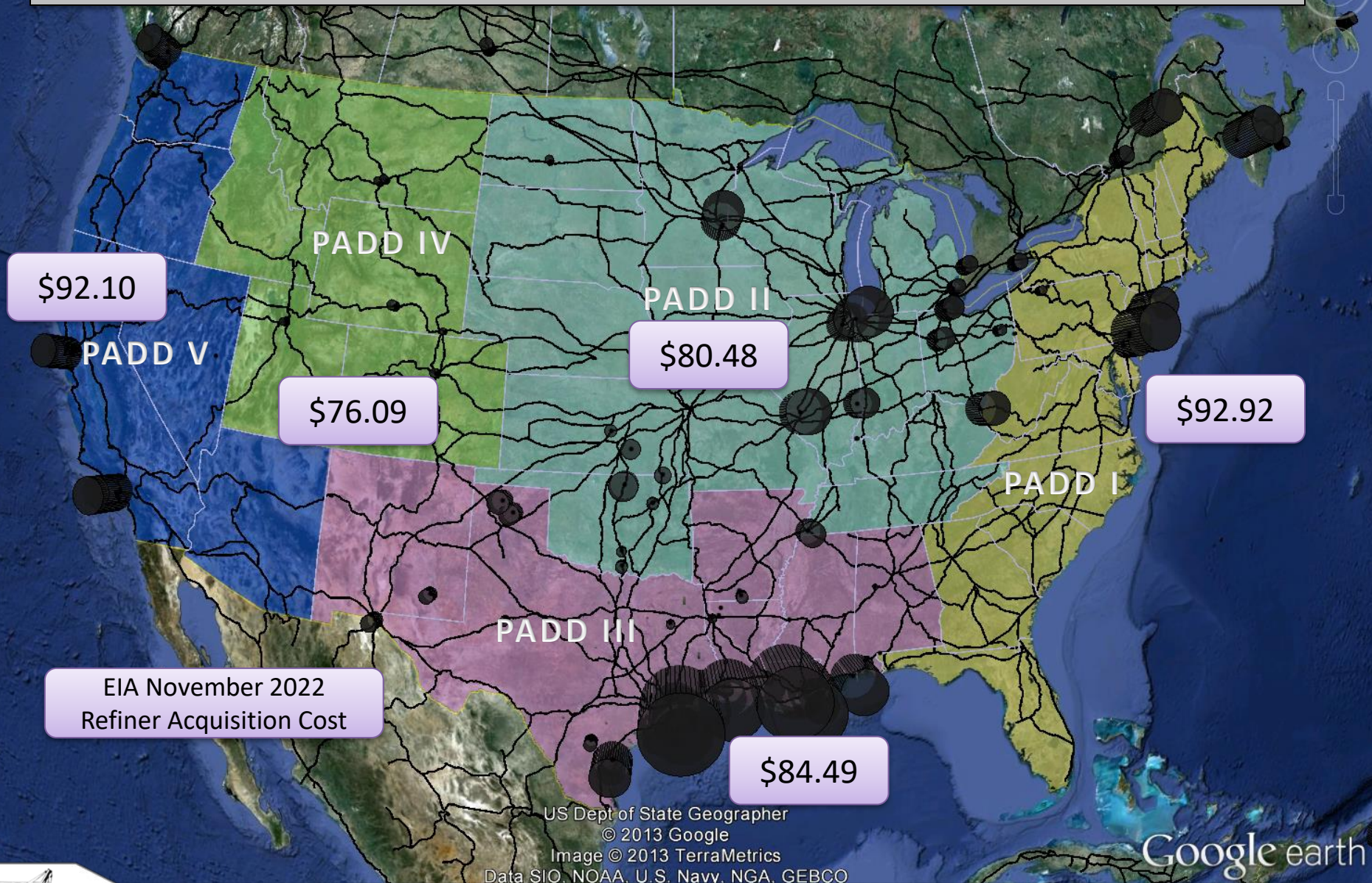
December 2022



Estimated Williston Basin Oil Transportation



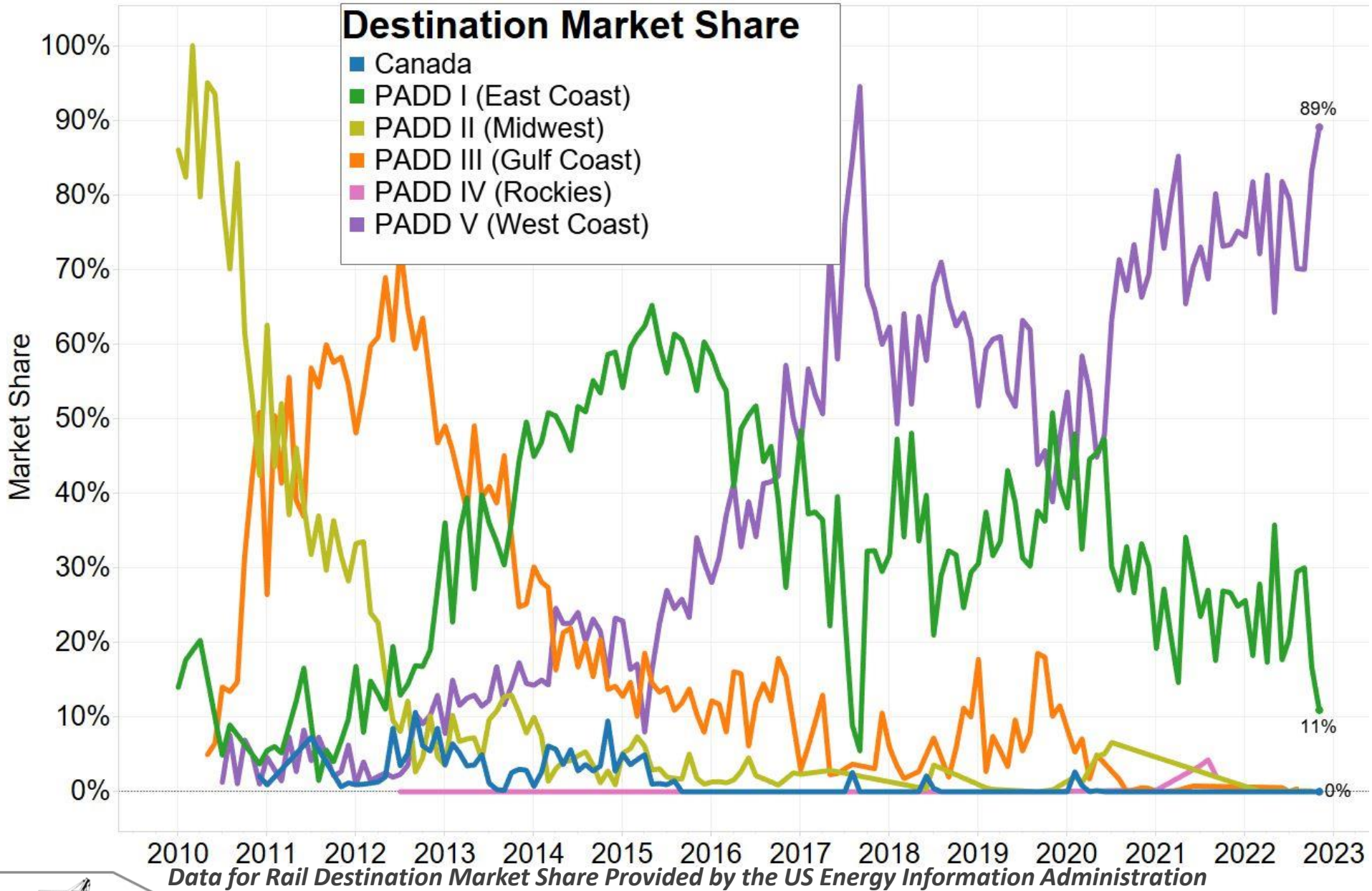
Major Rail Lines and Refineries



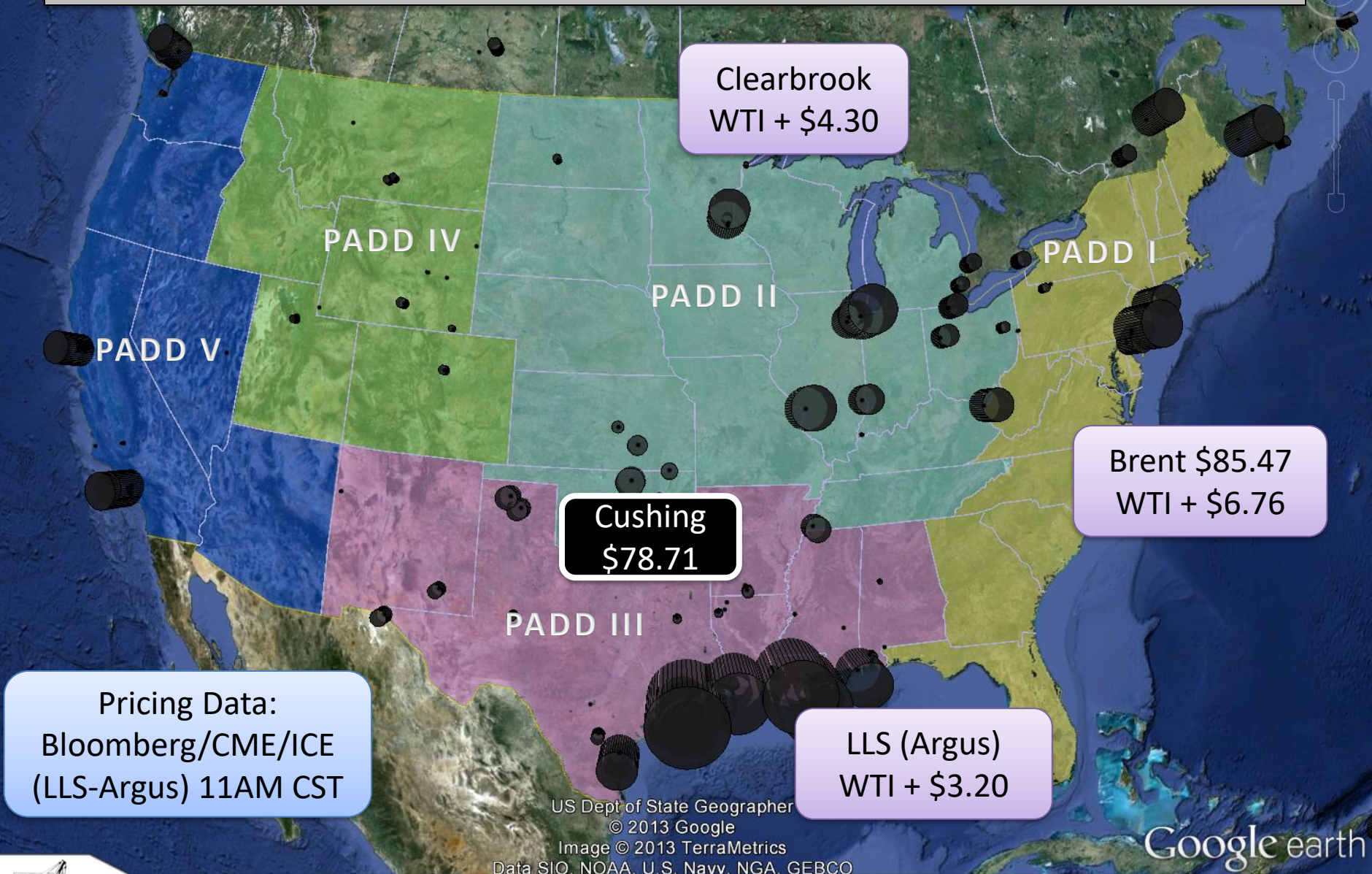
Estimated ND Rail Export Volumes



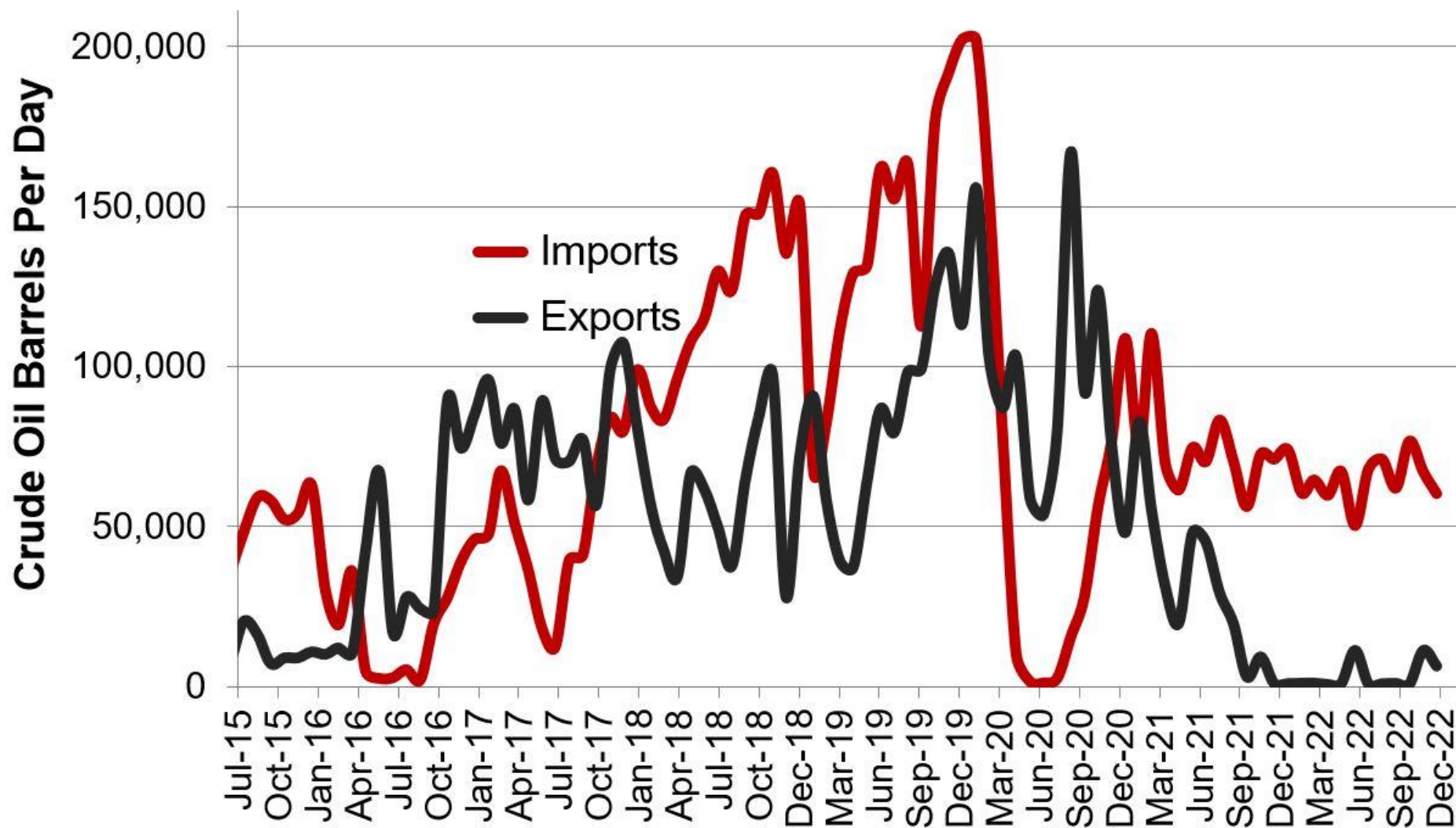
Rail Destinations Market Share (Nov. 2022)



Crude Oil Prices – Feb. 16, 2023



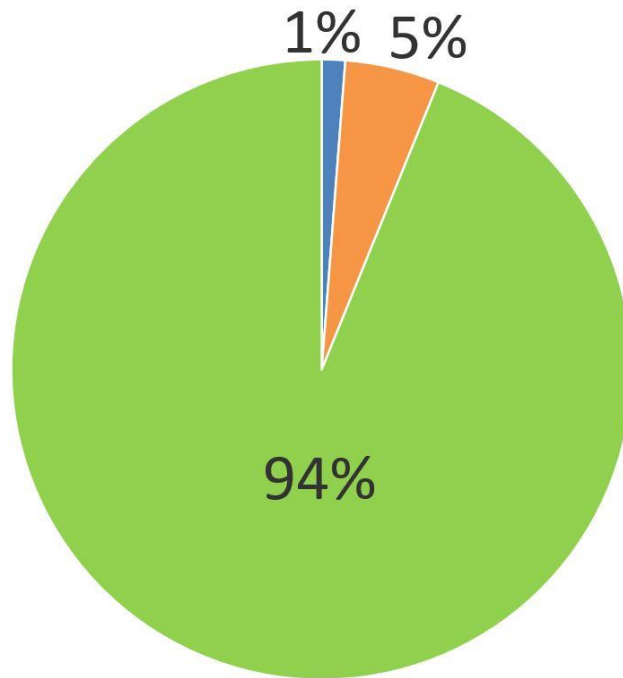
Williston Basin Truck/Rail Imports and Exports with Canada



Data for imports/exports chart is provided by the US International Trade Commission and represents traffic across US/Canada border in the Williston Basin area.



Solving the Flaring Challenge



Statewide

GREEN – % of gas captured and sold
Blue – % flared from zero sales wells
Orange – % flared from wells with at least one mcf sold.

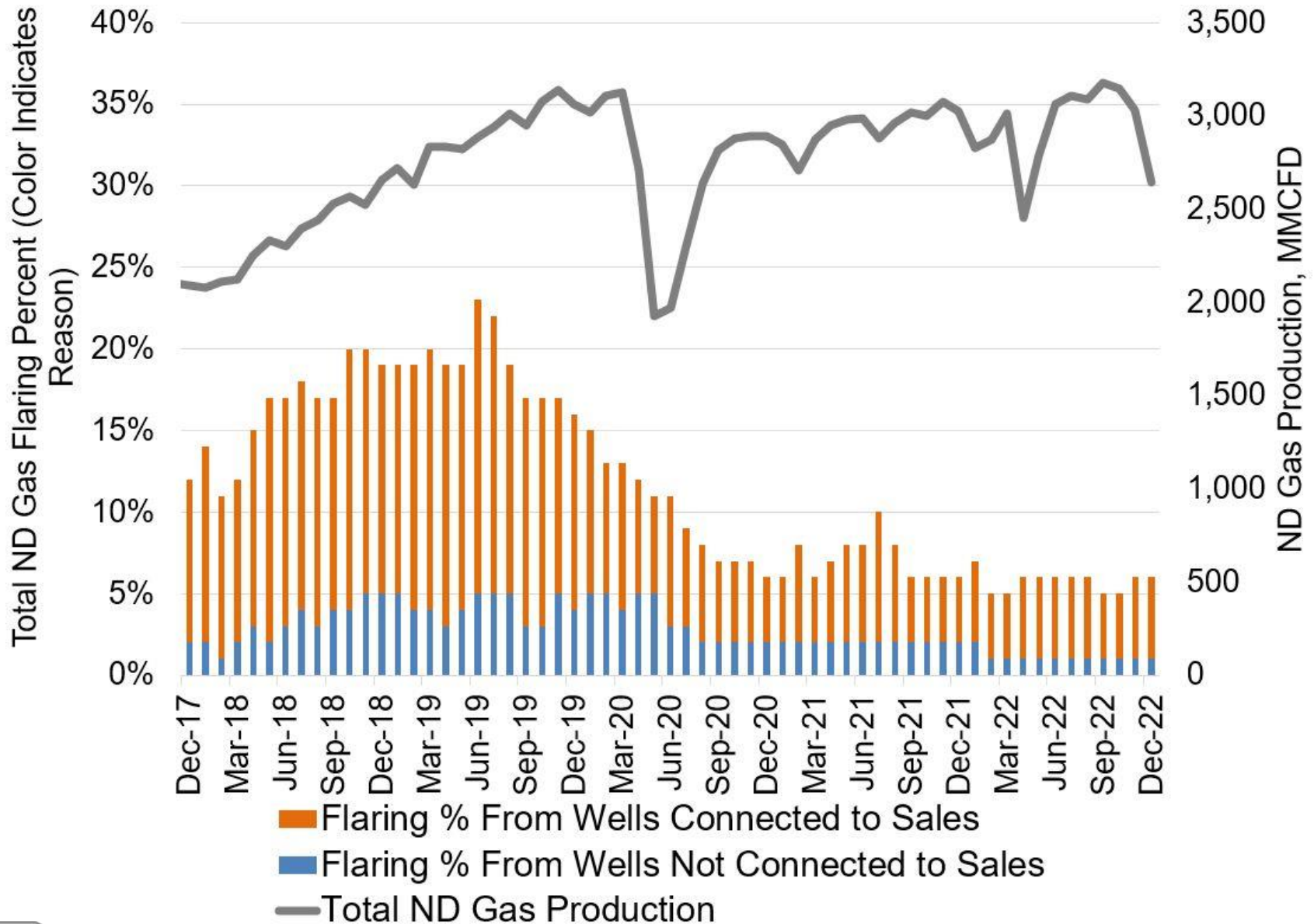
Simple Terms

Blue – Lack of pipelines
Orange – Challenges on existing infrastructure

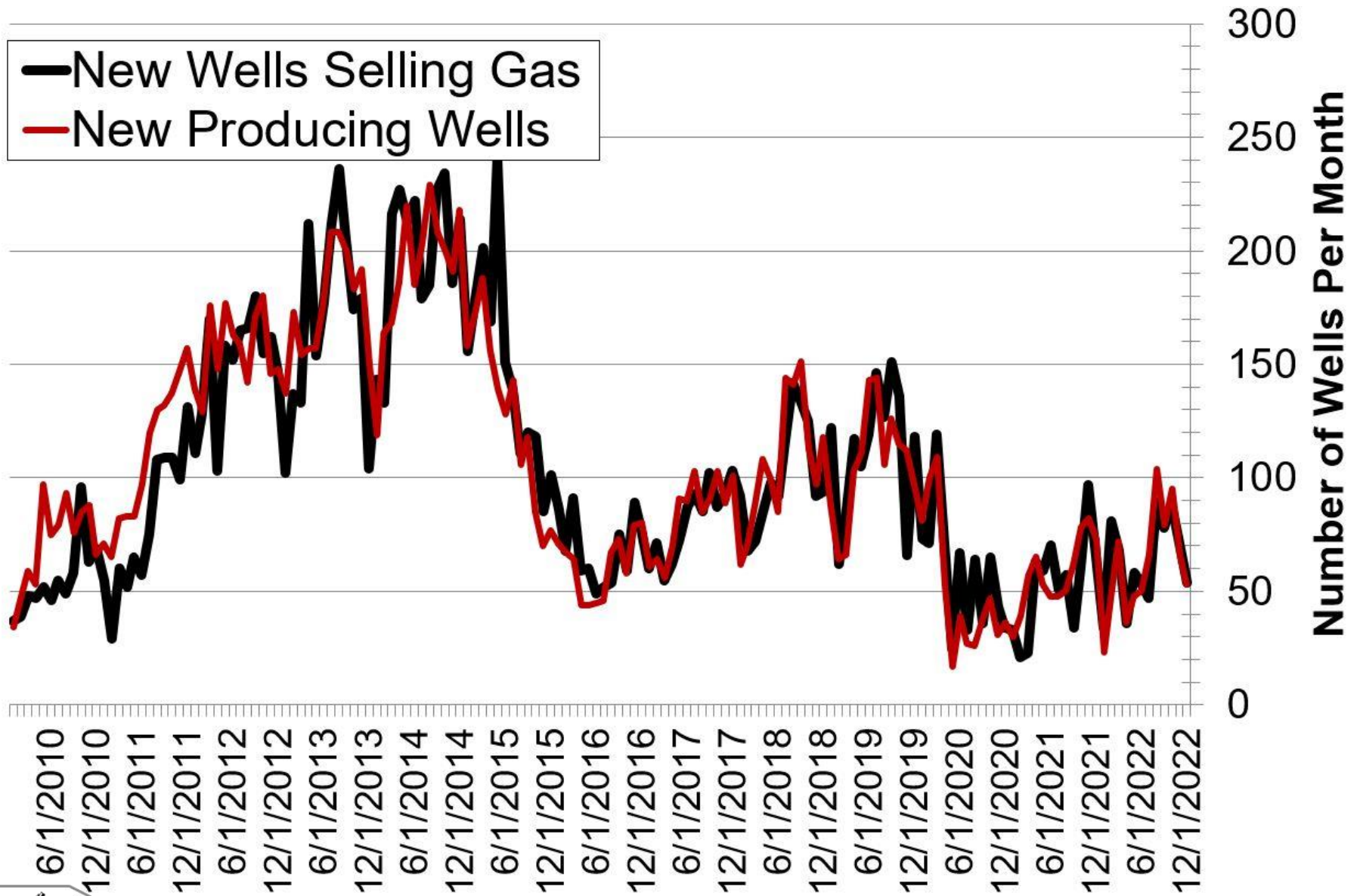
Dec. 2022 Data – Non-Confidential Wells



Solving the Flaring Challenge



Solving the Flaring Challenge



EIA Oil Price Forecast: Feb. 2023

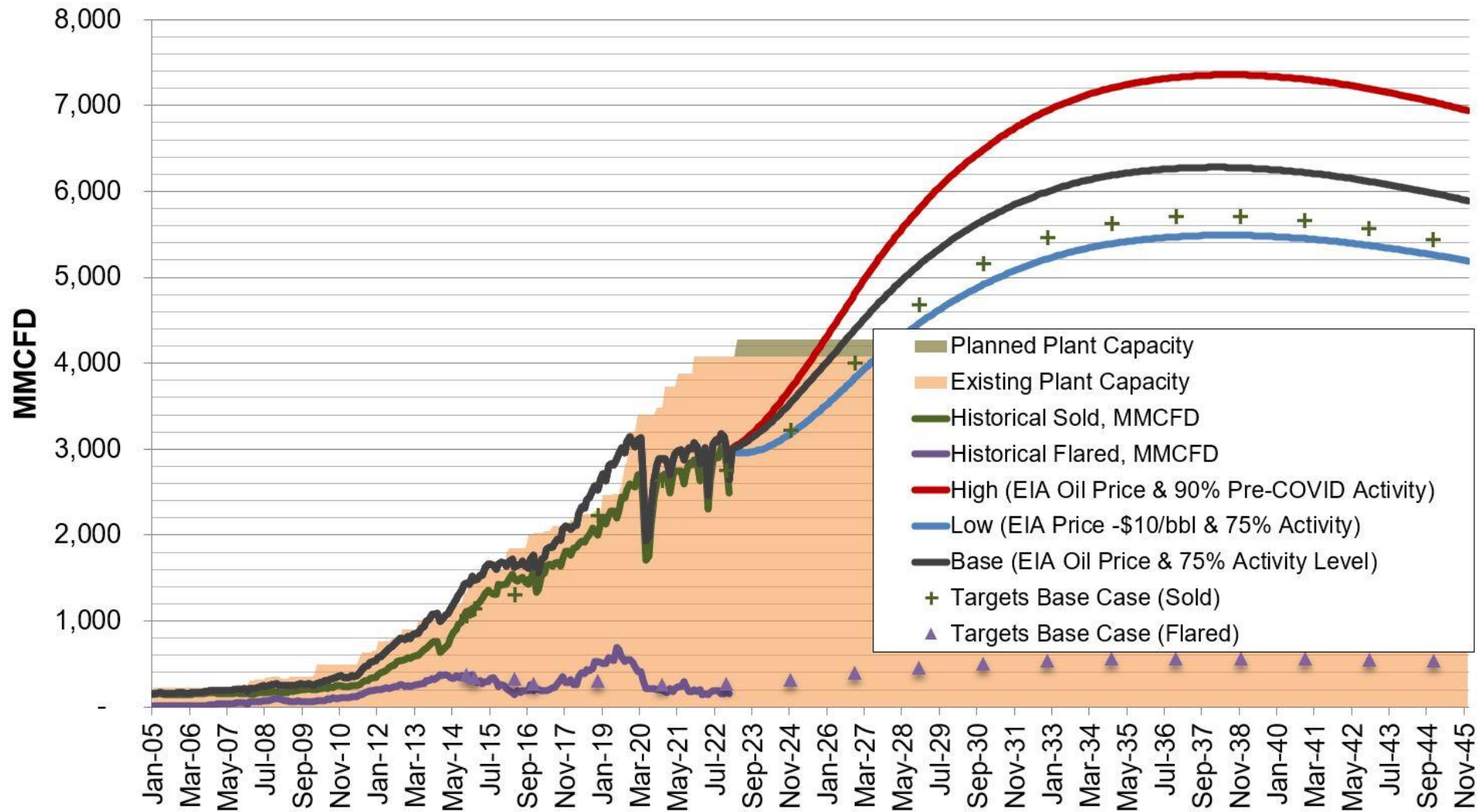
West Texas Intermediate (WTI) crude oil price dollars per barrel



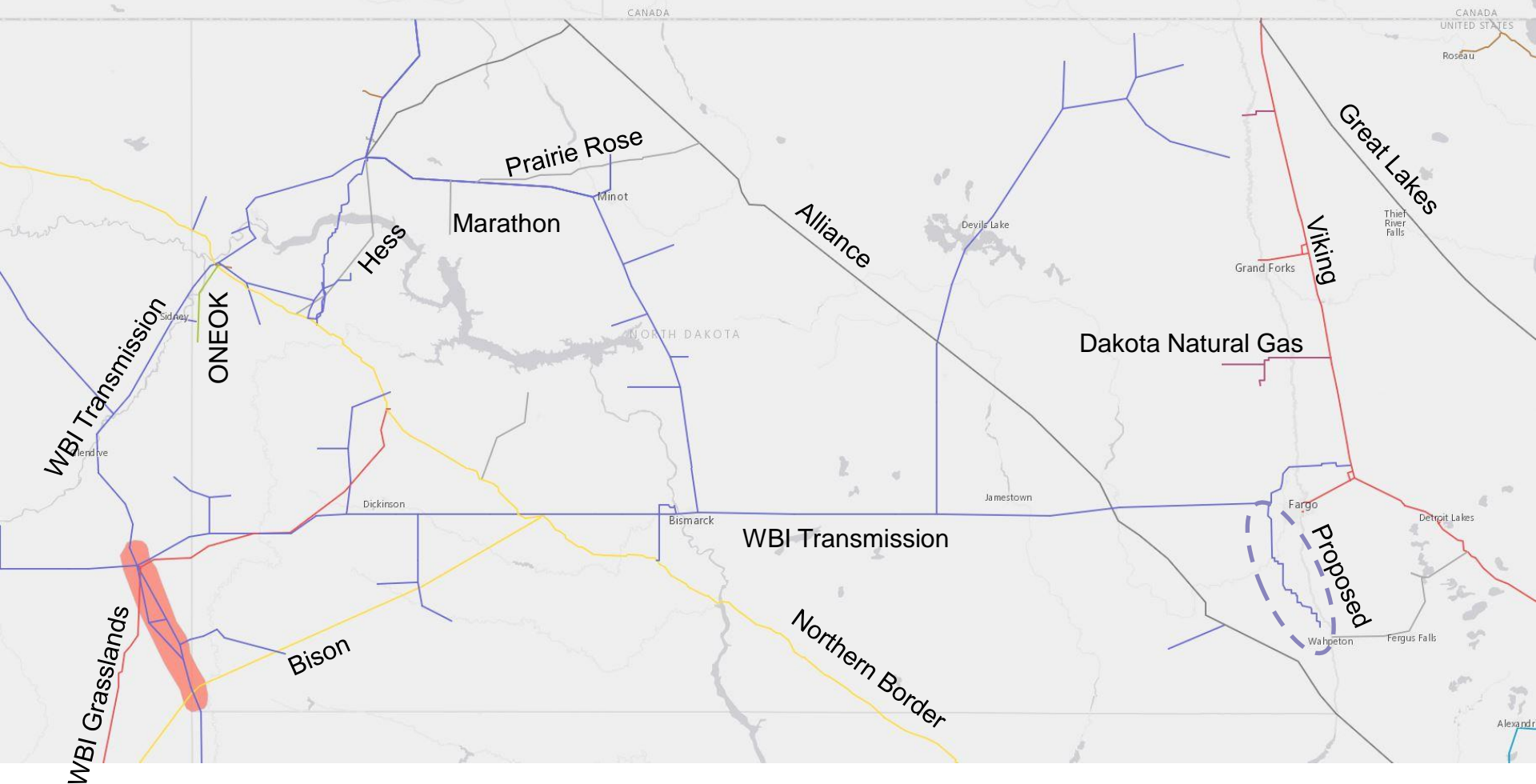
Data source: U.S. Energy Information Administration, Short-Term Energy Outlook, February 2023



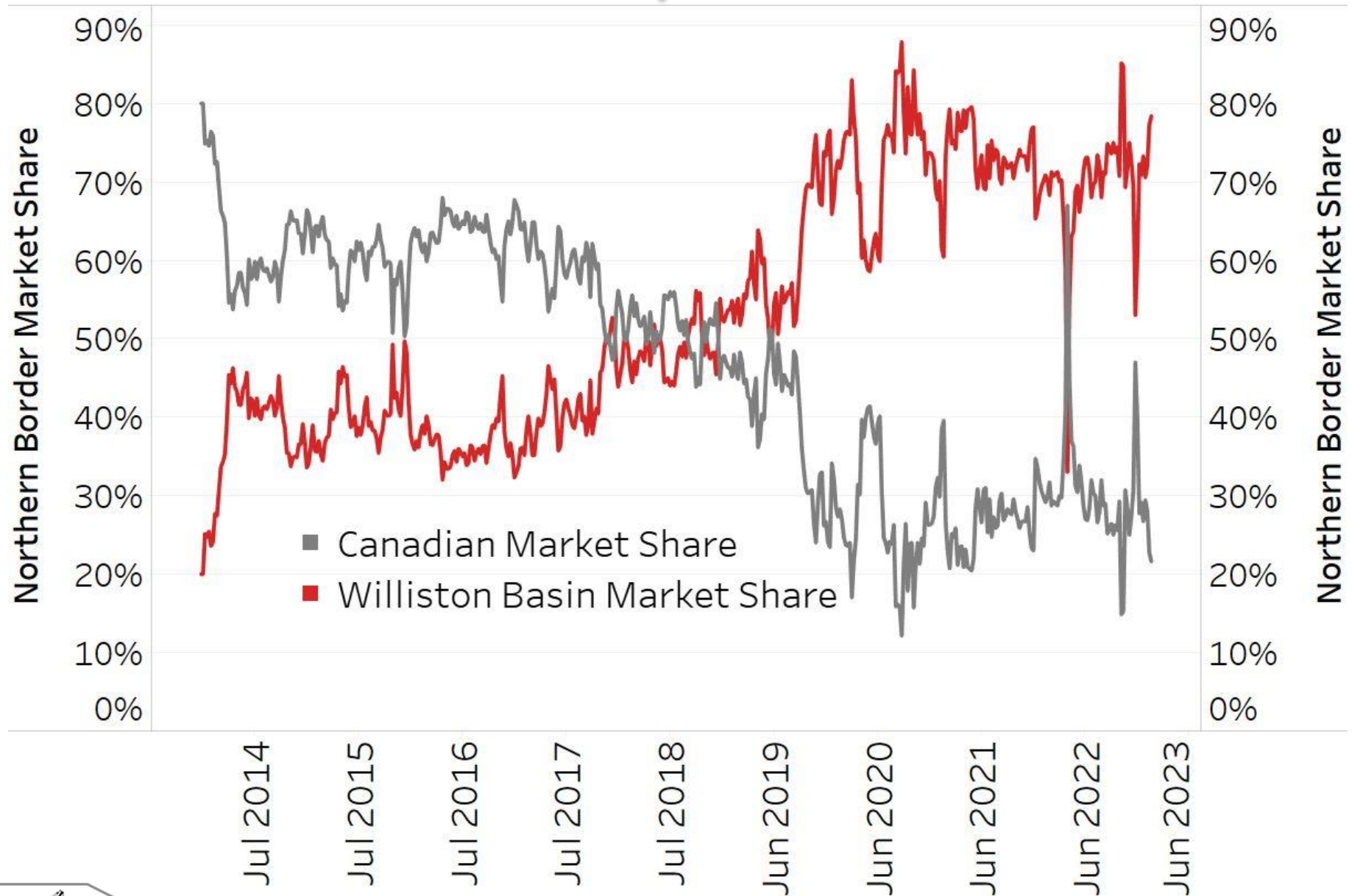
Solving the Flaring Challenge



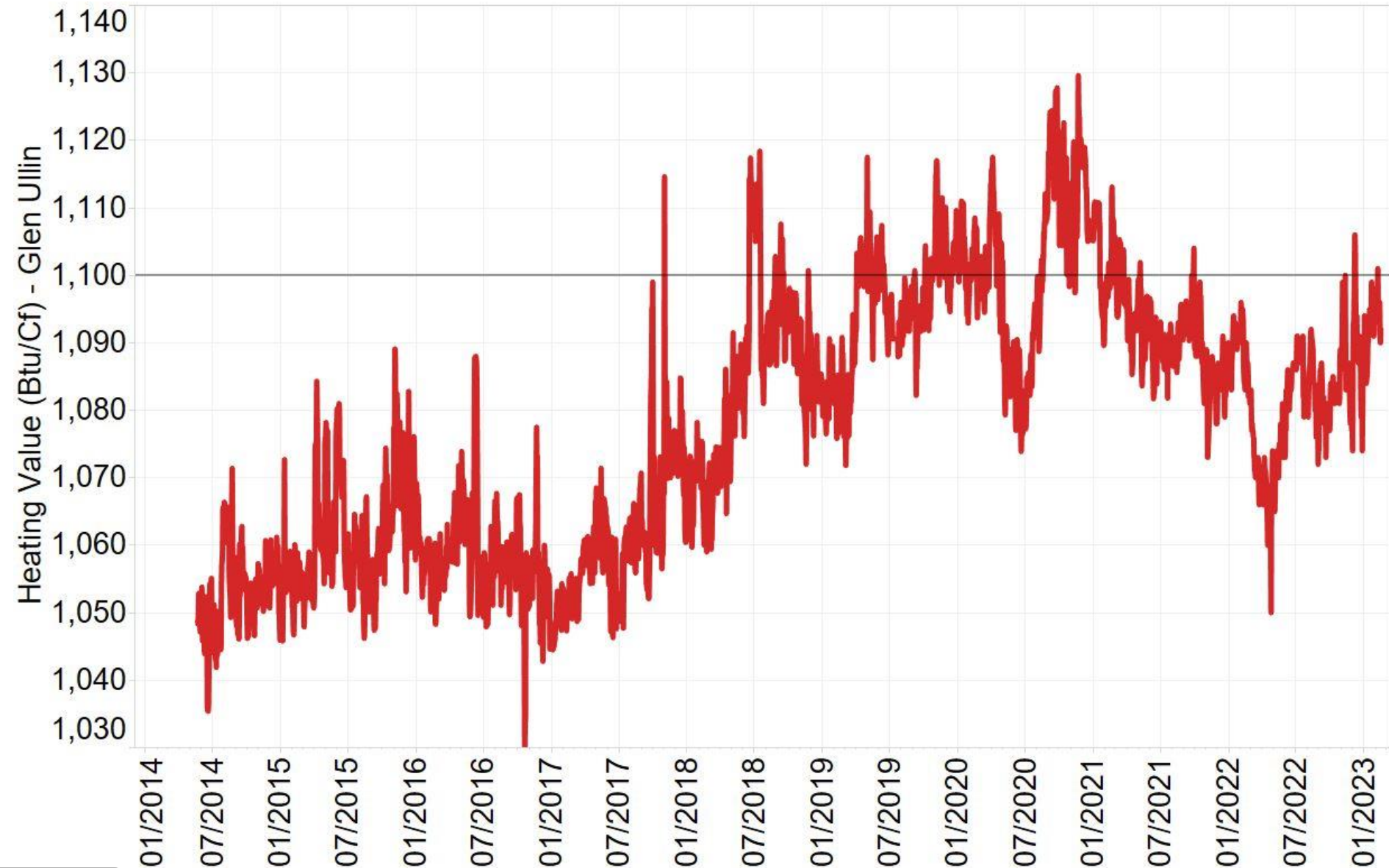
Bakken Natural Gas Infrastructure



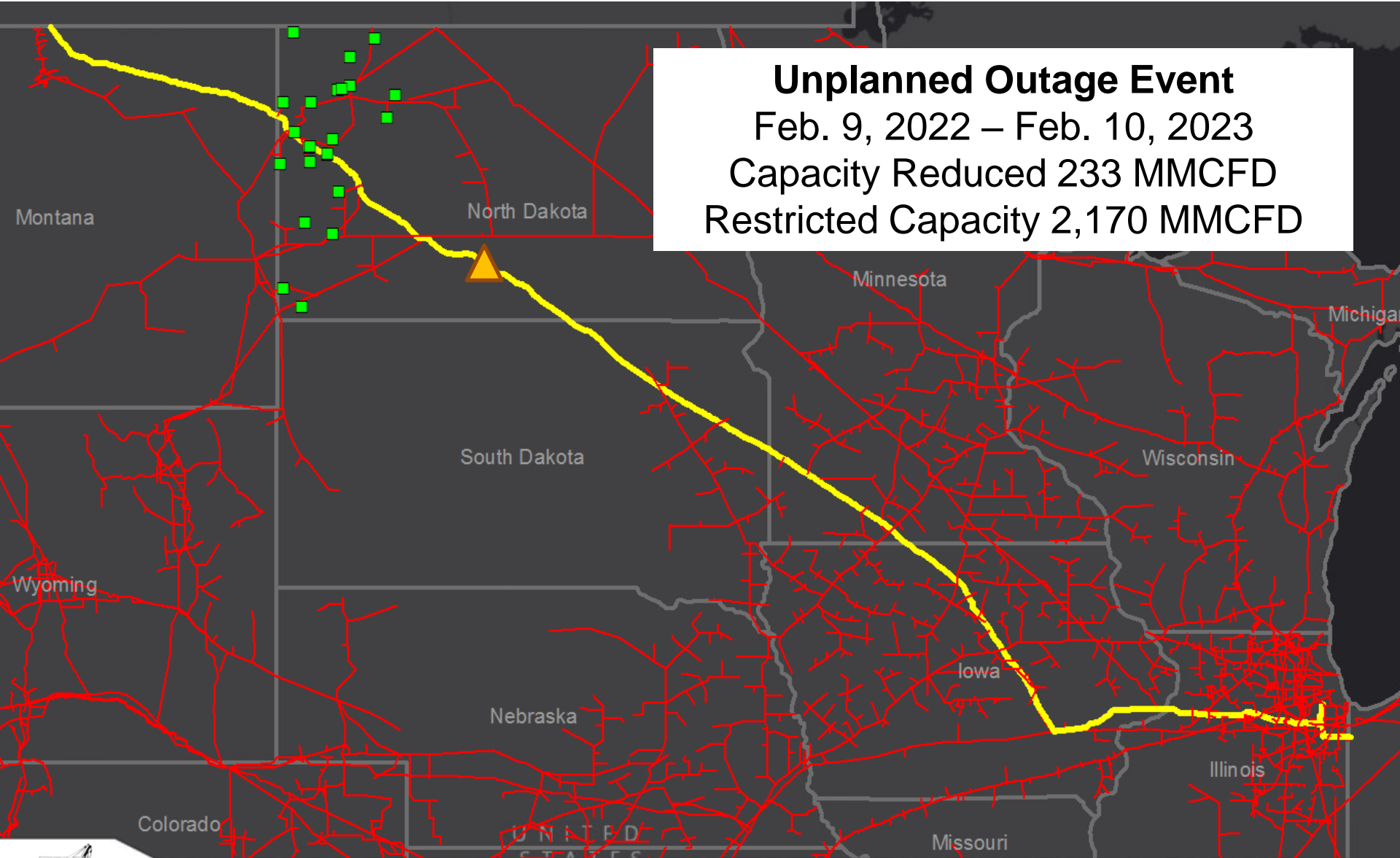
Northern Border Pipeline Market Share



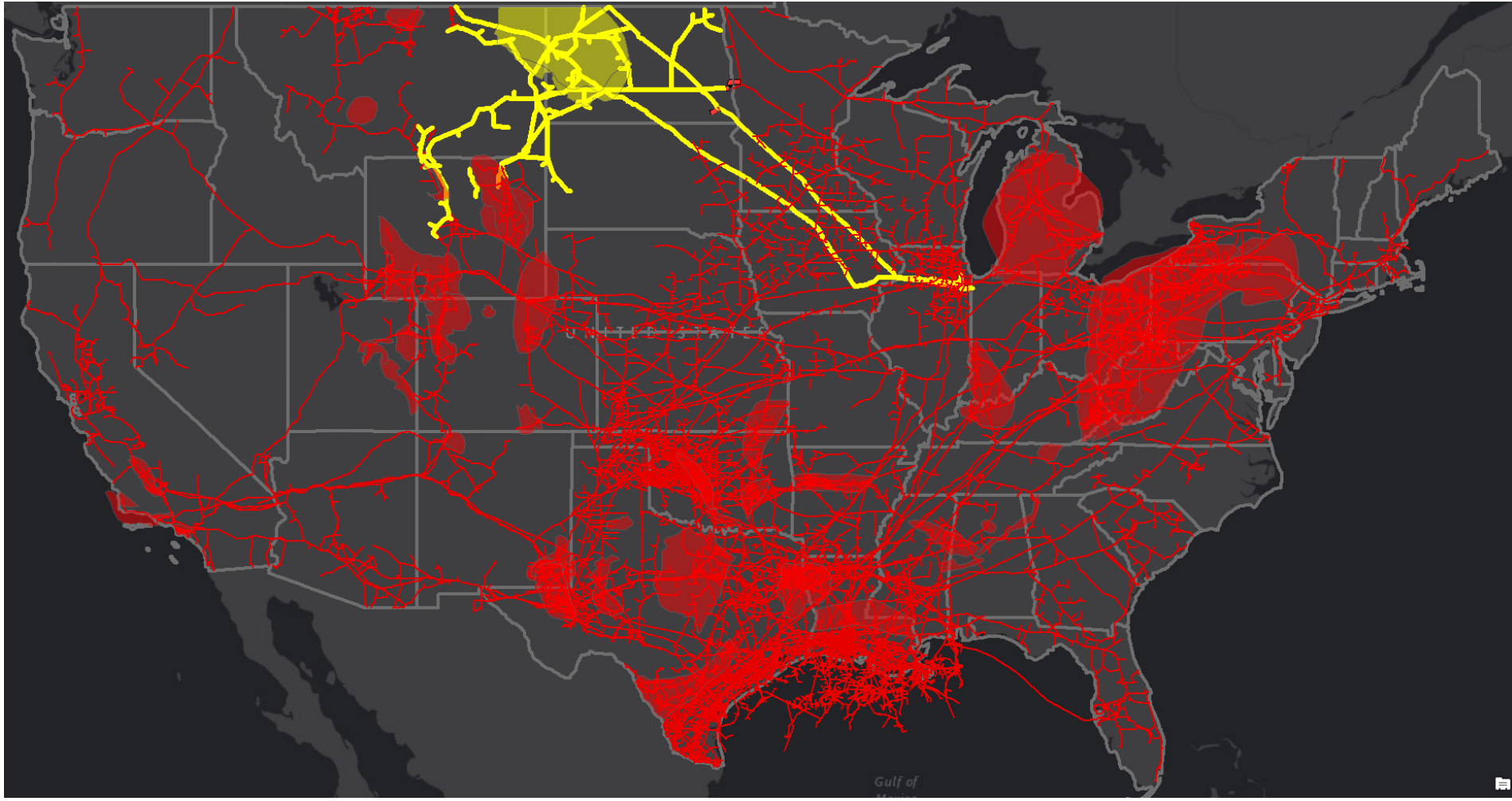
Northern Border BTU at Glen Ullin, ND



St. Anthony Compressor Outage



Bakken Natural Gas Infrastructure



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