



# “Changing Natural Gas Pipeline Throughputs in Canada”

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# About the National Energy Board (NEB)



- [National Energy Board Act](#)
- [LNG Export and Import Licence Applications](#) (summary and links to LNG export licence applications)
- [Market Snapshots](#) (energy information updates; weekly updates)
- [Energy Futures Report](#) (long term projections of supply and demand; Nov 2015 new release)
- [Regulatory Document Index](#) (submissions, correspondence, decisions)



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# Major Pipeline Systems Regulated by the NEB



- 73,000 km of interprovincial and international pipelines.
- Pipelines shipped \$159 billion worth of crude, petroleum products, NGLs and natural gas.
- Transportation cost of approximately \$7 billion.

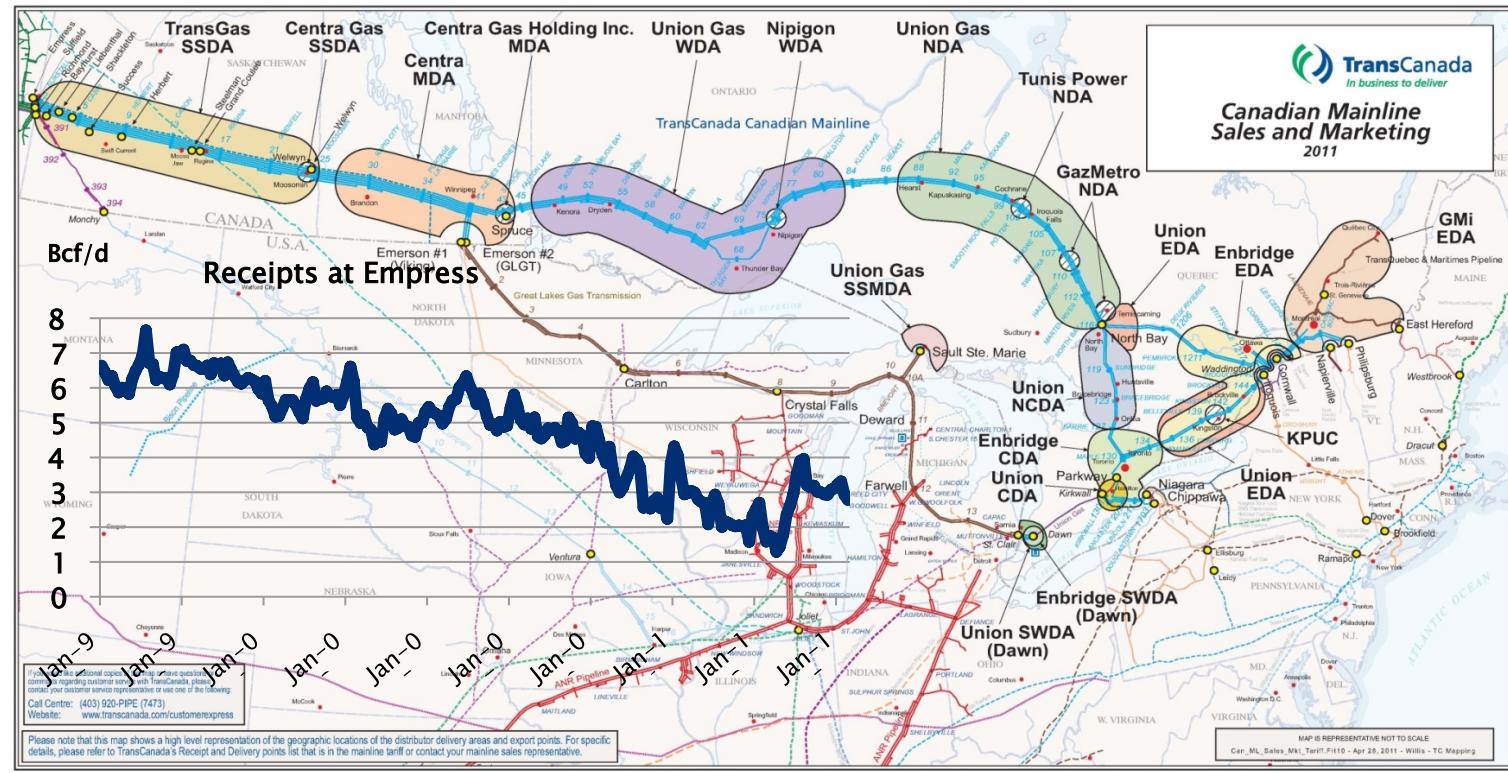
Source: NEB 2014 [Annual Report to Parliament](#)



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# Changing Natural Gas Flows in Canada



Source: Map - TransCanada PipeLines; Empress Receipts – GLJ



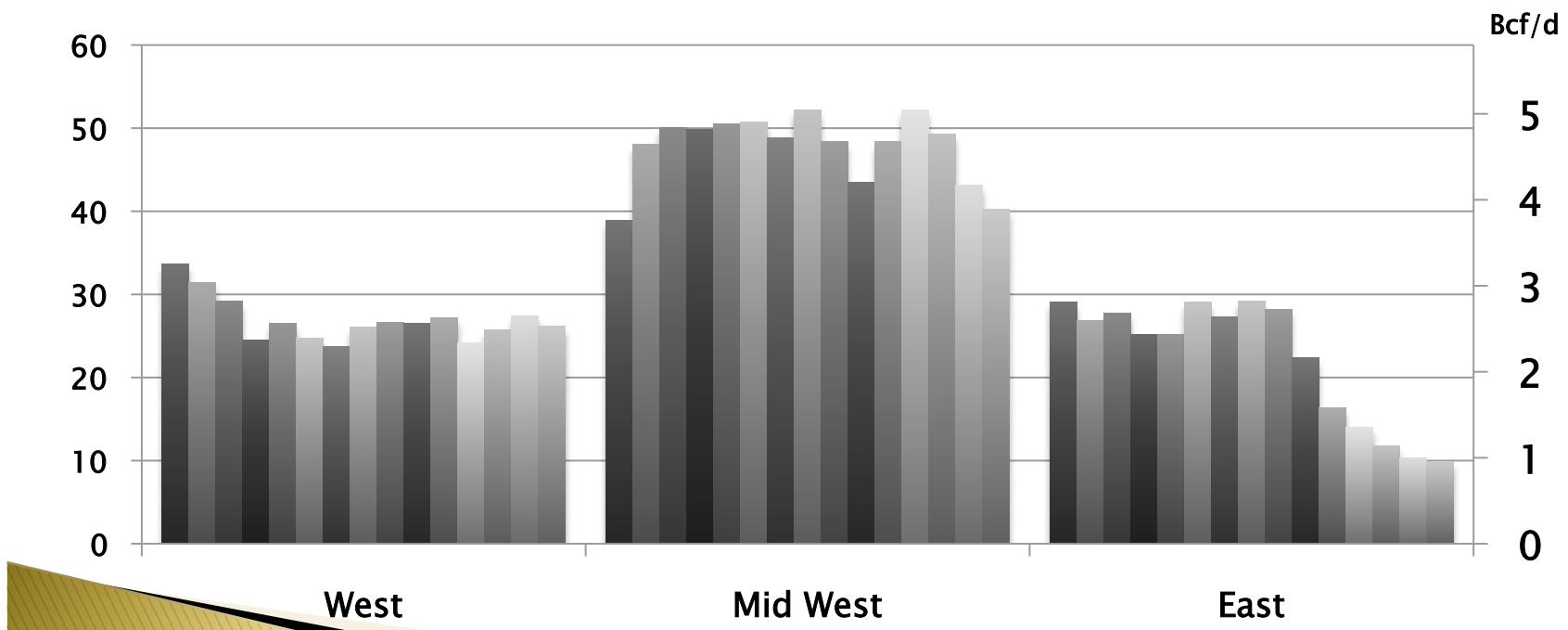
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# Declining Throughputs to Markets in the East

Billion cubic meters  
per year

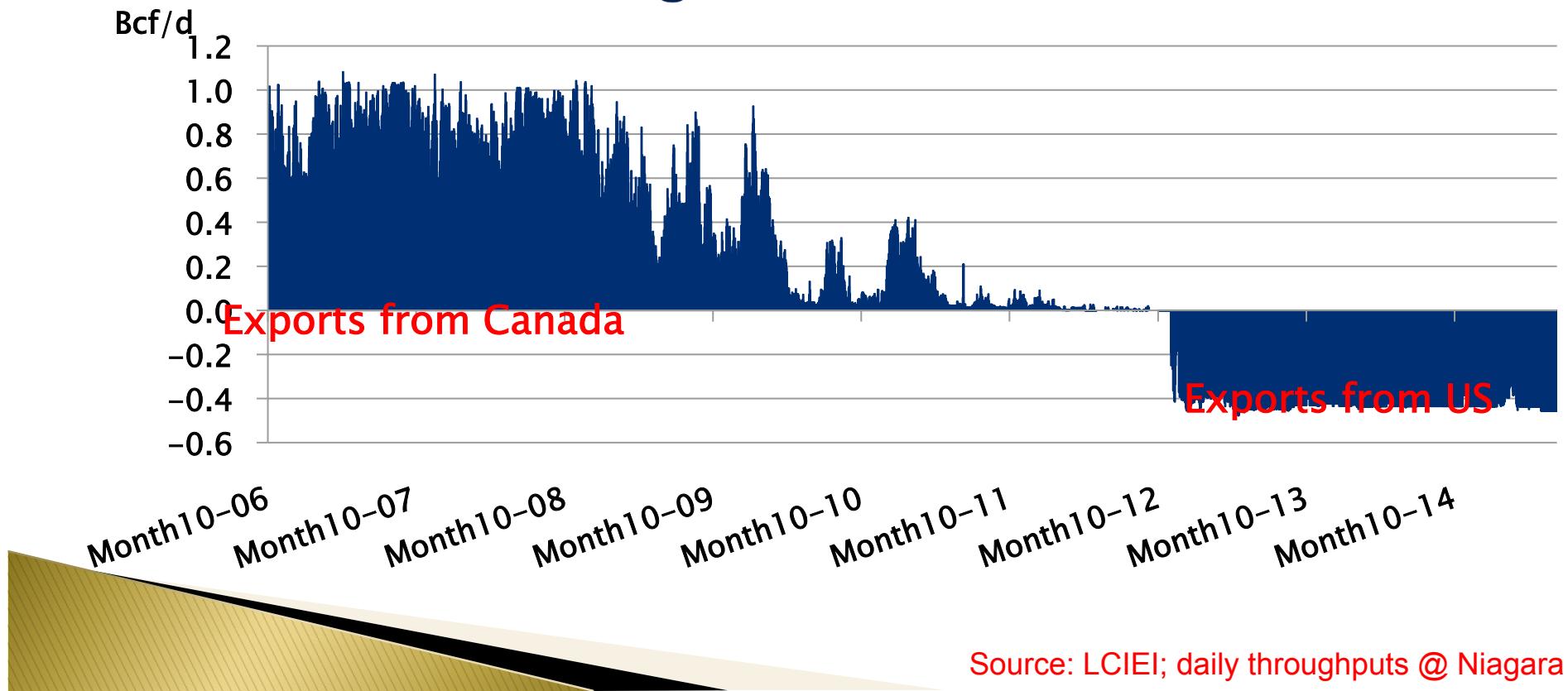
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014



Source: NEB [Commodity Statistics](#), Gas – Historical Summary by Region

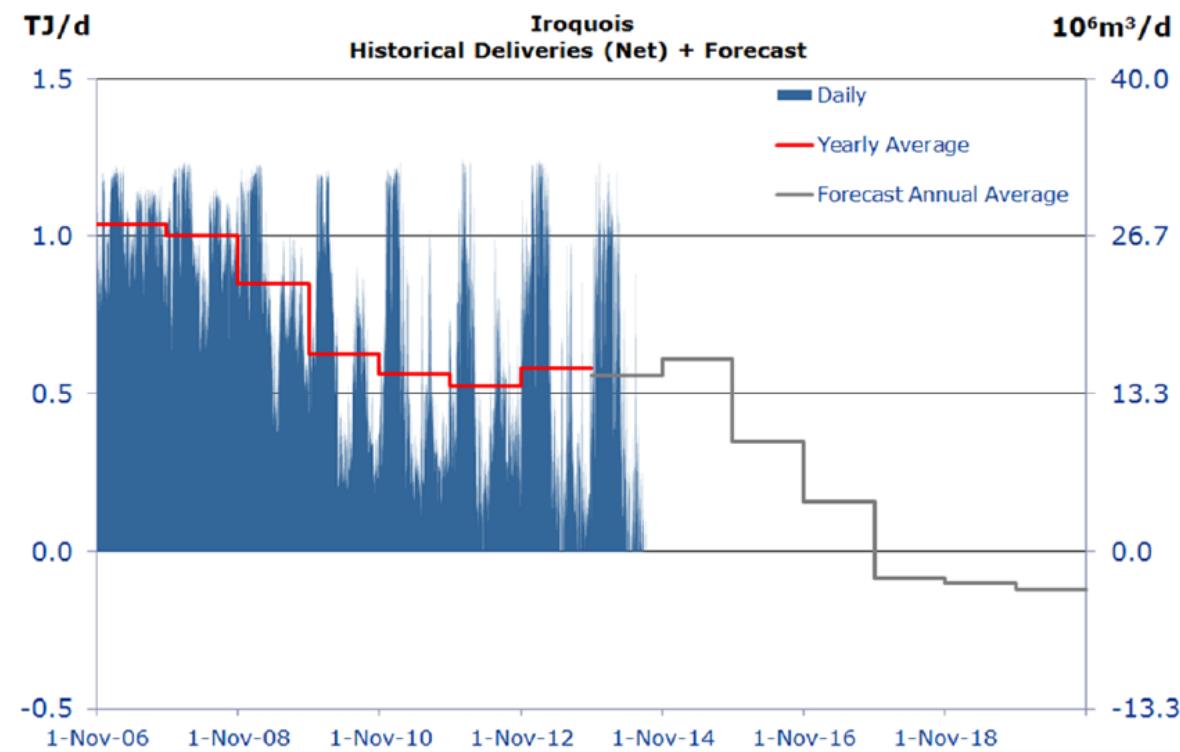


## Flow Reversals at Niagara



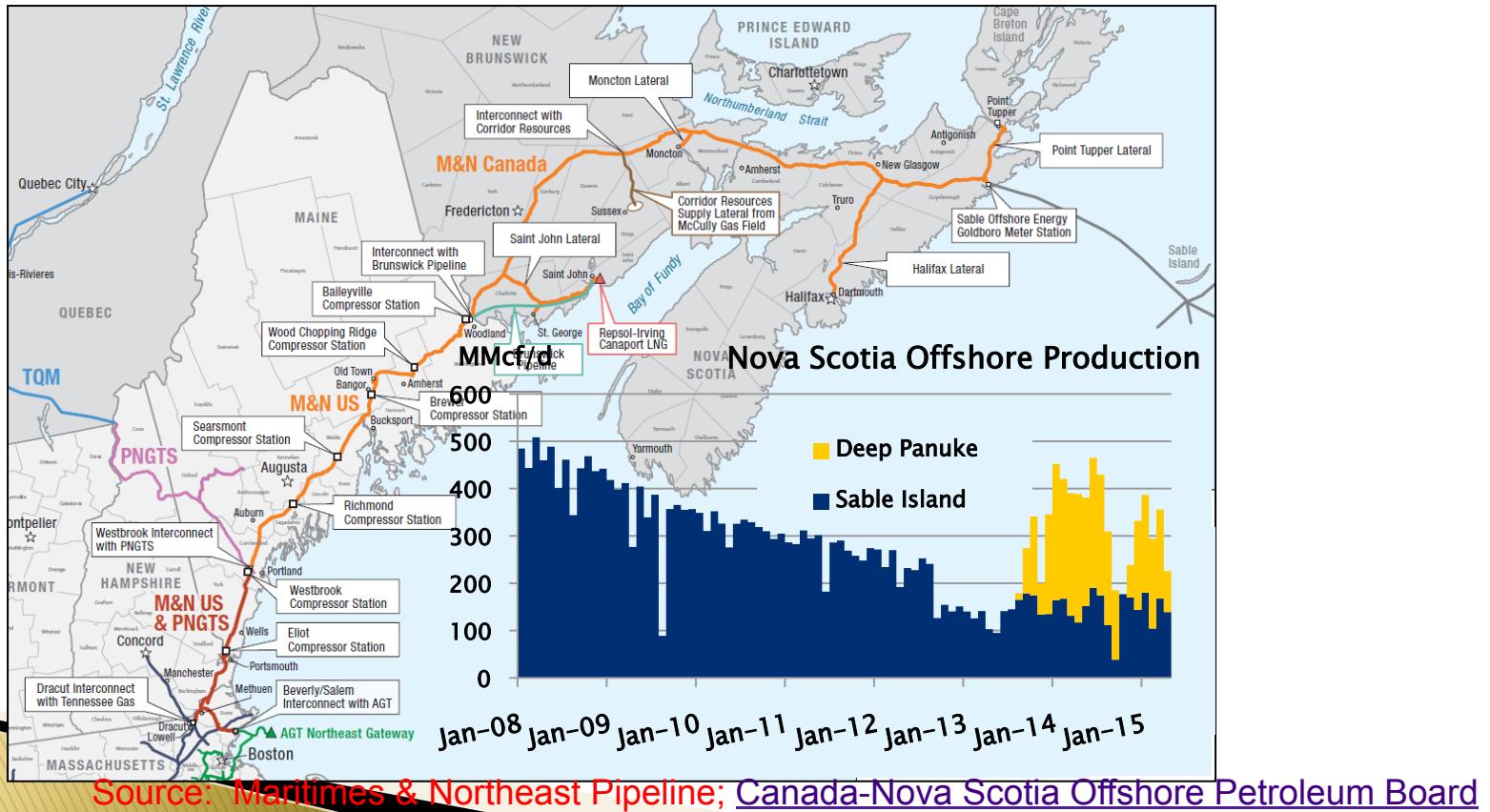


# Anticipated Flow Reversals at Iroquois



Source: TransCanada [filing](#) to Ontario Energy Board, re: EB-2014-0289, Jan. 16, 2015

# Unique Market in the Maritimes



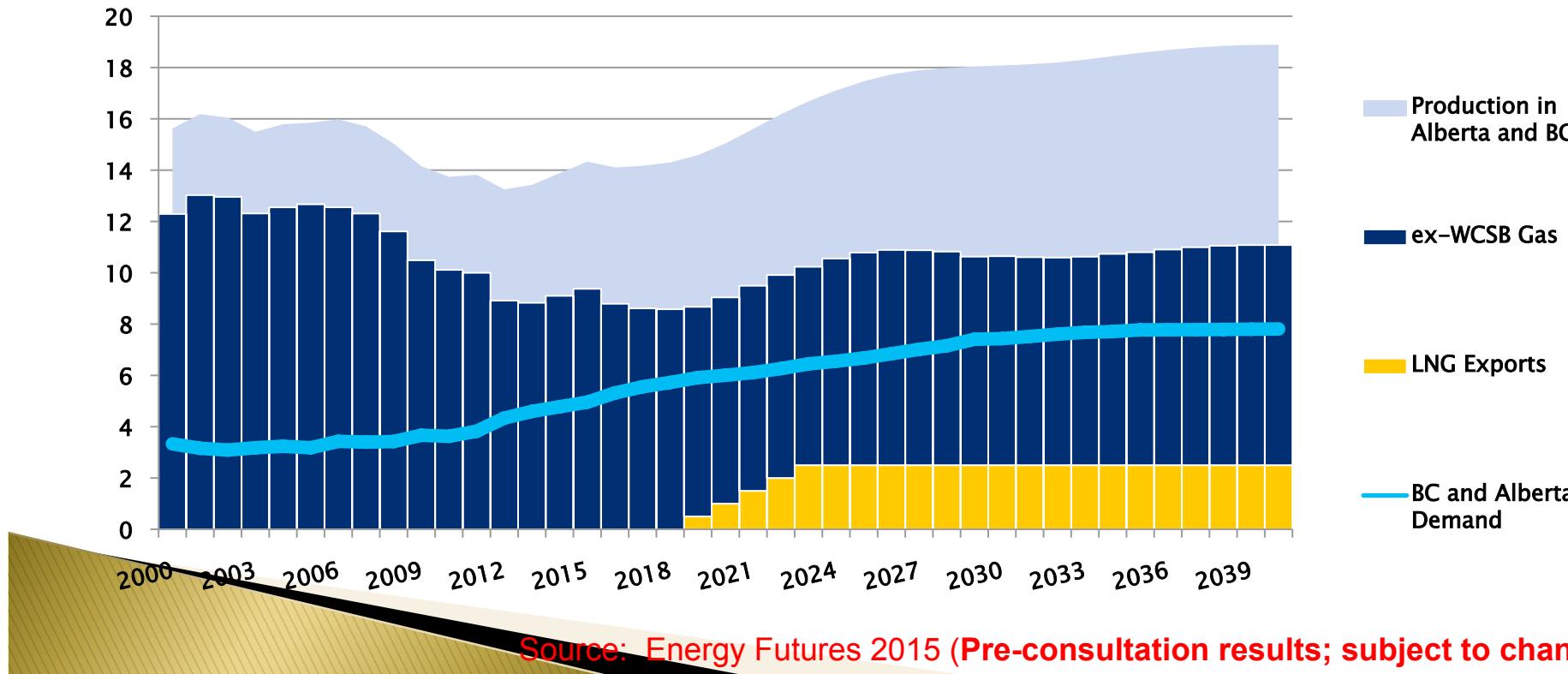


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# Natural Gas Production and ex-WCSB Exports Forecast

Bcf/d

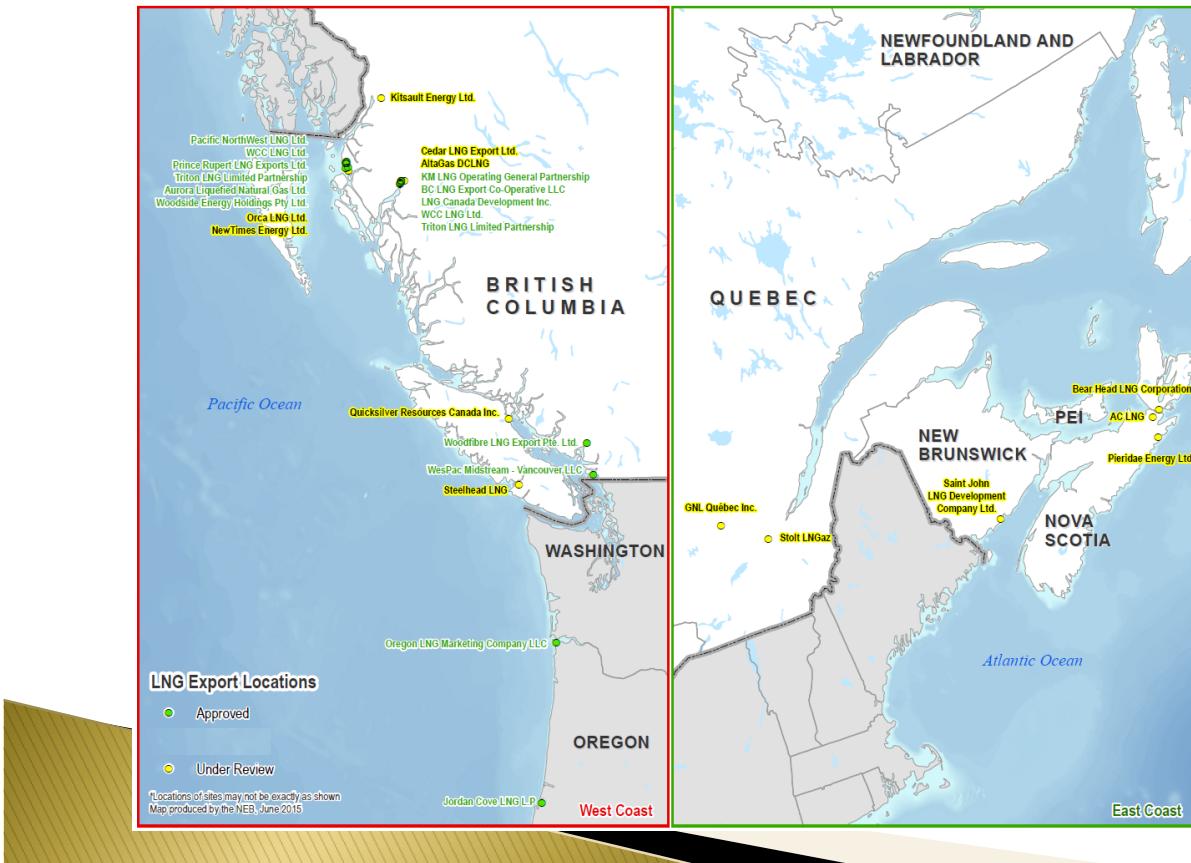




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# Potential Growth Markets for Canadian Gas



LNG exports from  
Canada;  
Mid-West US market;  
Pacific Northwest.

Source: National Energy Board



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## Conclusions

- Changing gas flows continue to characterize the Canadian natural gas market.
- Less Canadian gas into the US Northeast market.
- Traditional export points are evolving into import points (ex. Niagara, Chippawa, Iroquois).
- Maritimes to turn from net-exporters to net-importers of natural gas before the end of the decade; pipeline de-bottlenecking plans in early phases of regulatory review (FERC).
- Canadian production expected to increase to ~19 Bcf/d by 2040. Forecast assumes 2.5 Bcf/d of LNG exports from Canada by 2023. 8 Bcf/d of natural gas available for ex-WCSB export.\* \*Preliminary results from Energy Futures 2015; to be released in November 2015.
- More Canadian gas will be exported to US Mid-West and US West markets.