

Energy: Emerging Opportunities

February 10, 2014



About us



An industry association dedicated to the sustainable growth and economic development of the regional energy sector.



FUNDY Engineering



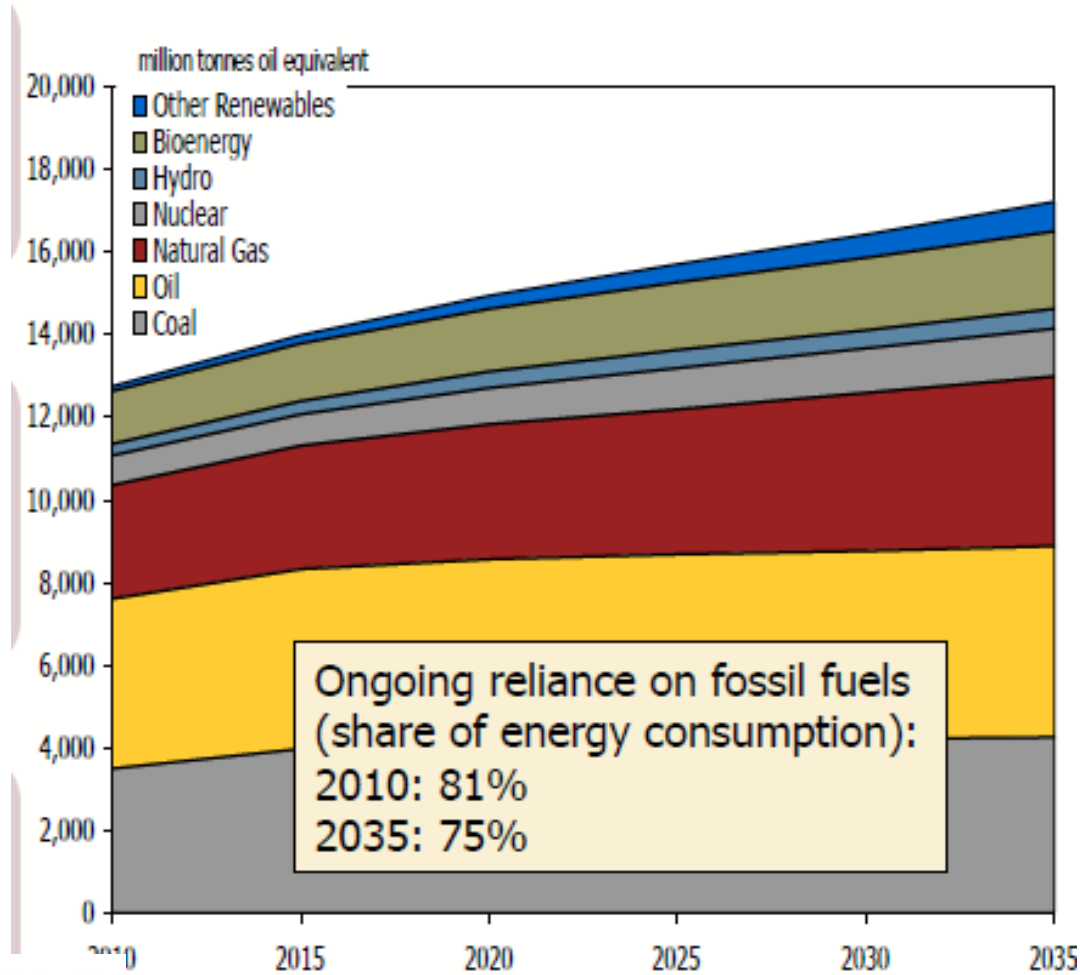
Deloitte.



NEWALTA

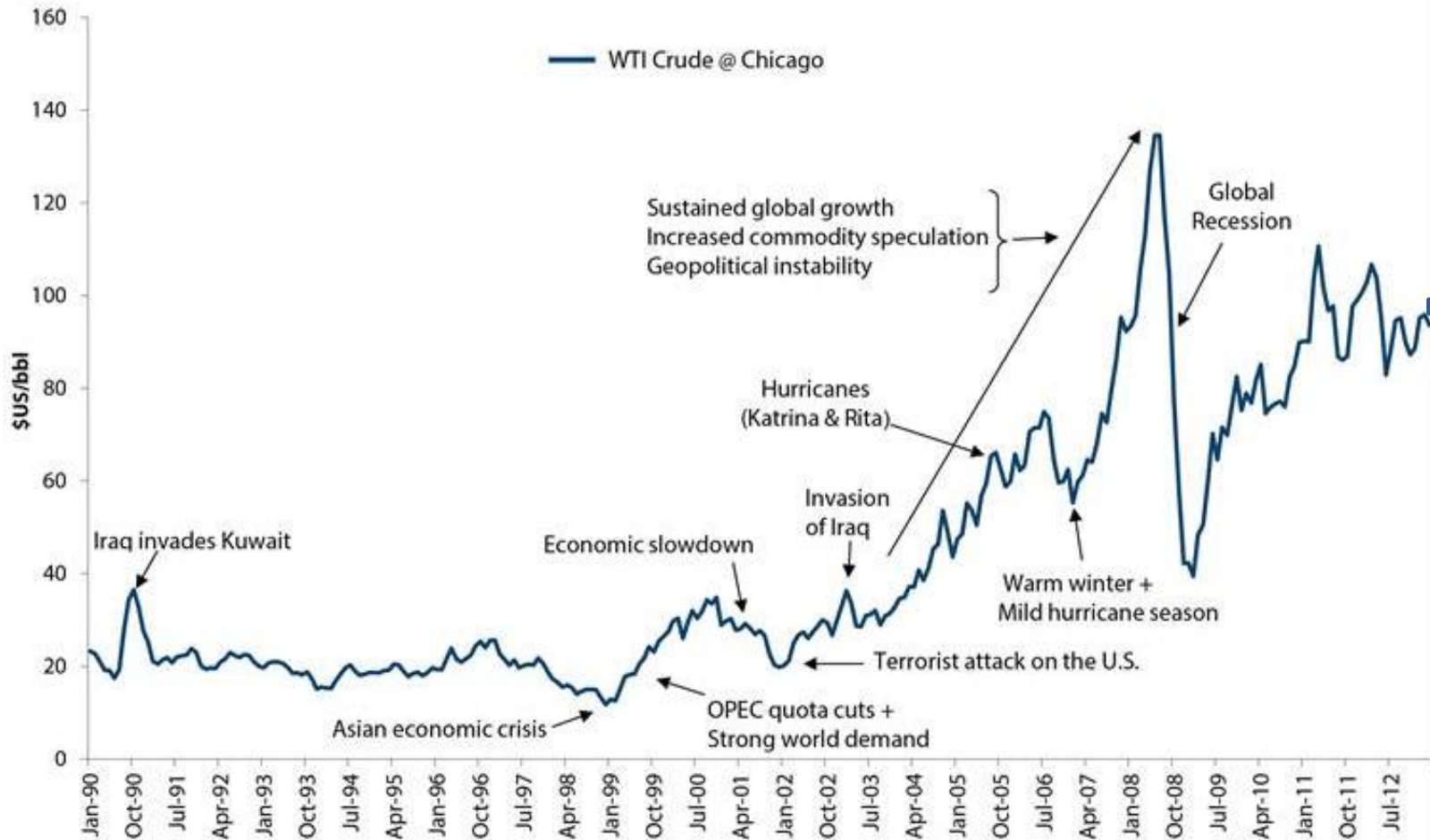


Global Demand



1.5 Billion people have no access to modern energy services and electricity

Major Events and World Oil Prices, 1990 - 2012

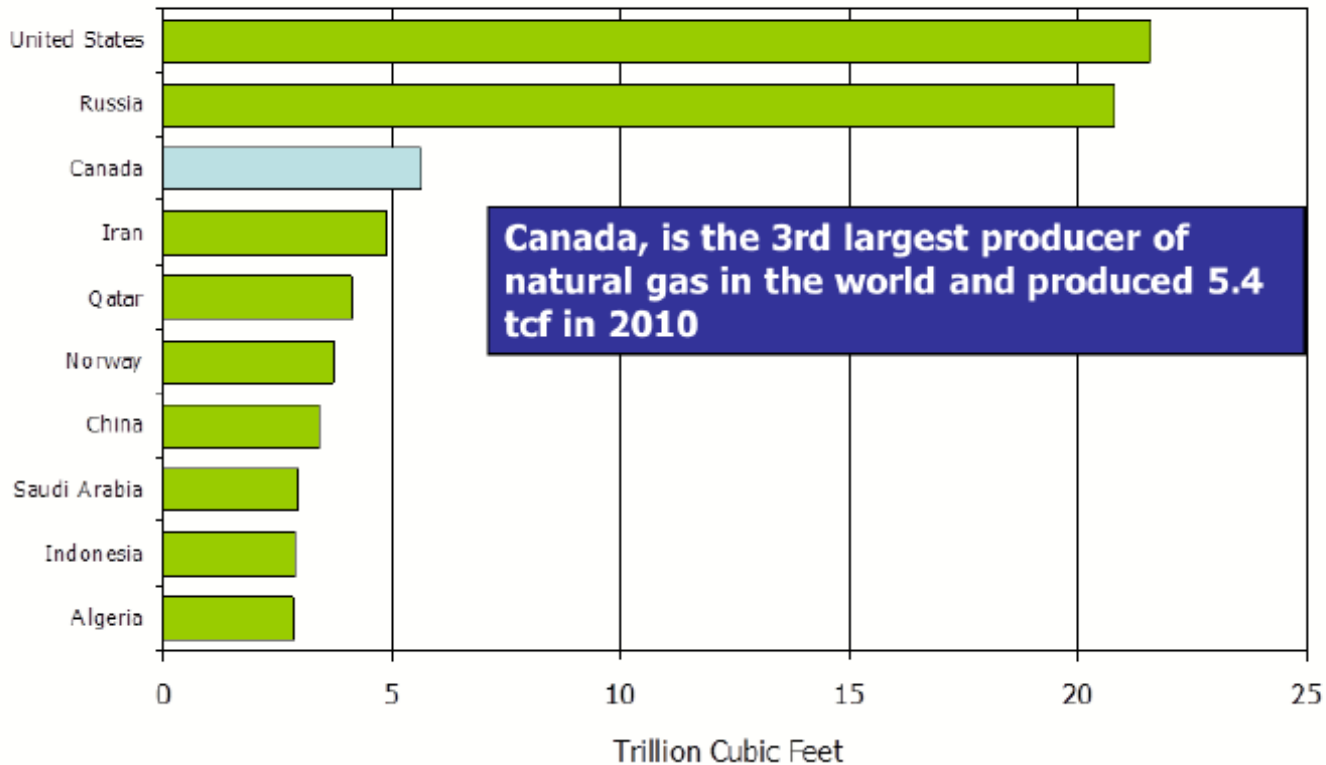


Source: Kent Marketing Services

Price today is
\$100.11

Global Supply of Natural Gas

Top Natural Gas Producers in 2010



Global Survey

- New Brunswick improved its ranking from 102 (of 147) to 81 (of 157)

Fraser Institute Global Petroleum Survey, 2013

Global Survey

“However, in spite of these improvements, New Brunswick is next to last in Canada, after Quebec, in terms of attractiveness for exploration and development investment.”

Energy in our region

- Hydro

Energy in our region

- Hydro
- Nuclear

Energy in our region

- Hydro
- Nuclear
- Coal

Energy in our region

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- Coal
- Refined Petroleum (and non-refined)

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- Hydro
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- Coal
- Refined Petroleum (and non-refined)
- Natural gas
- Renewables – Wind, Biomass, Anaerobic, Solar

American oil production is projected to increase, particularly from shale sources, which has led to projections the U.S. could become energy (oil) independent by 2030.

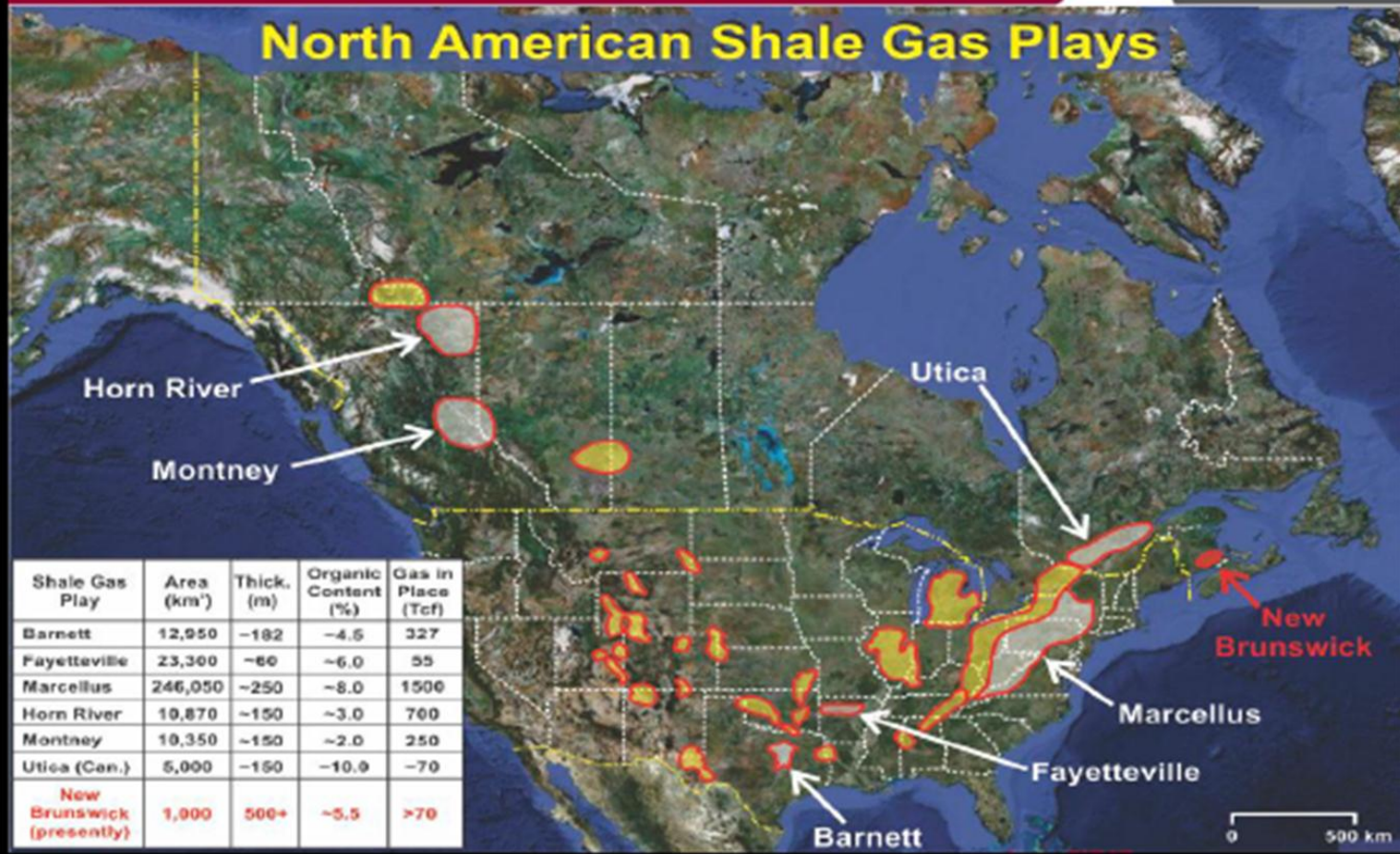
Future Supply of Natural Gas



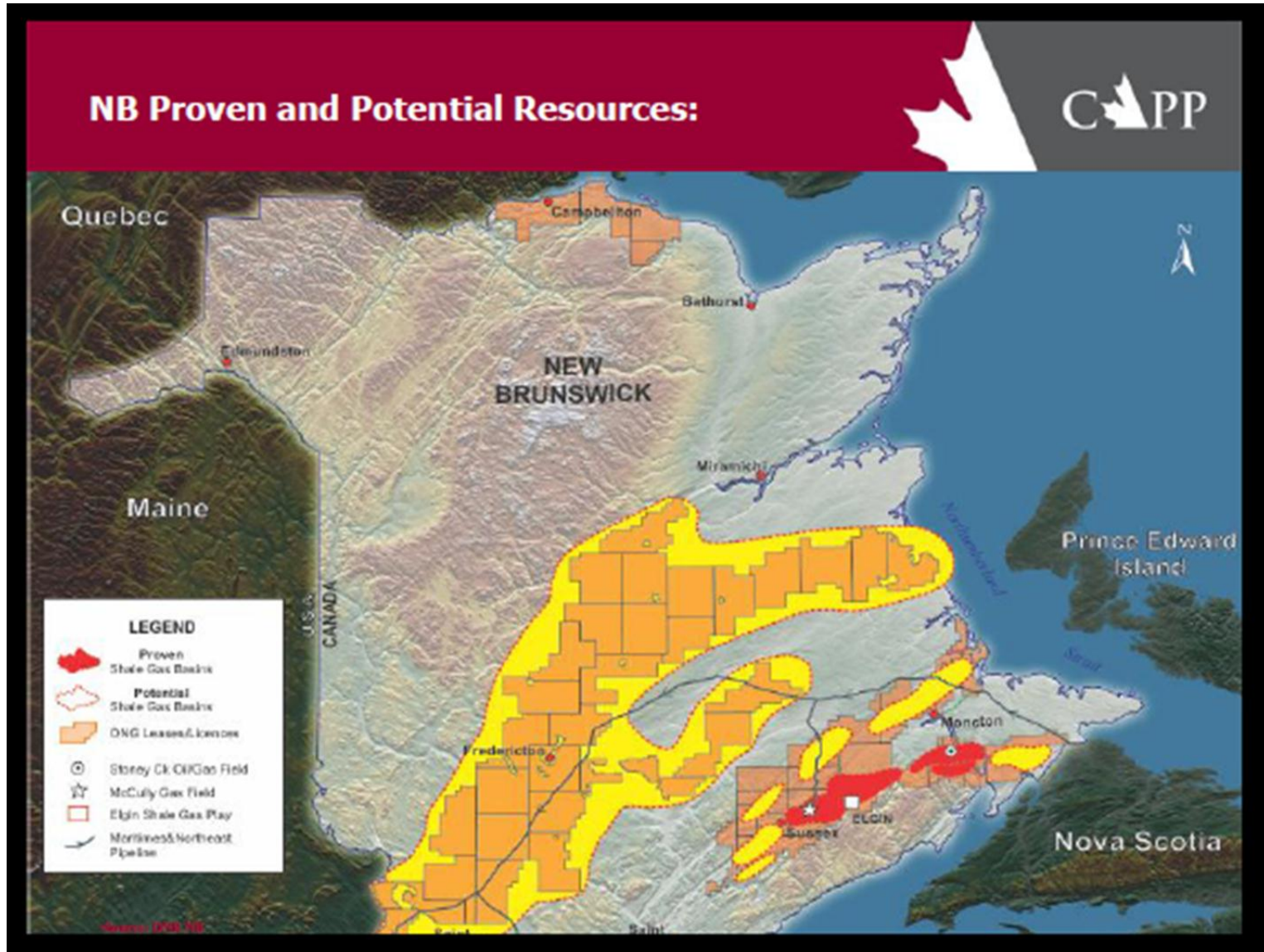
North American Shale Gas Play



North American Shale Gas Plays



NB Proven and Potential Resources:



Atlantic Bridge

A potential expansion on the Algonquin Gas Transmission system which could bring natural gas supply from the Marcellus and Utica basins to Algonquin and Maritimes & Northeast.

Canaport LNG

Import/ and potential Export Terminal



Nova Scotia Terminals

- Two proposed terminals

Have stimulated other inquiries for further on-shore and off-shore exploration

Pipelines

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 3. TransCanada Pipeline's proposed West-East pipeline from Alberta to New Brunswick

Energy East Pipeline



The region requires an ample supply of competitively priced energy

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They will source it from foreign markets, regional markets, or proposed New Brunswick sources

There is a finite window of opportunity for
all of these opportunities

Demand

Demand

Industry must be able to operate under a competitive cost structure

Demand

If energy sources are not competitively priced, industry will be operating at a competitive disadvantage

Demand

And that is not sustainable

Demand

Residential users also require reasonable energy costs

Summary

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 - Some on-shore production
 - Potential further investment on-shore and off-shore

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- Export terminals:
 - NB part of Energy East Pipeline
 - NS supply and customer contracts required

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- Continued development in energy technologies
Biomass, wind, solar, small hydro, geothermal, biofuels, hydrogen, and research partnerships

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With sources from the International Energy Agency
World Outlook, Deloitte, the Canadian Association of
Petroleum Producers, and the Fraser Institute

