#### **Update: Canada**

December 3, 2014 CEE - BEG, Houston Texas

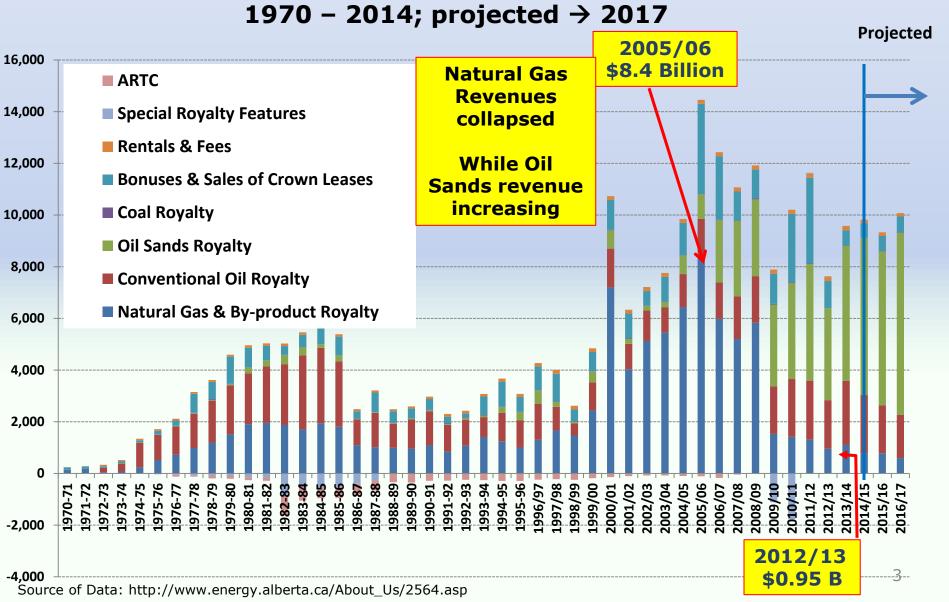
**Robert Skinner** 

<u>r.skinnerbb@gmail.com</u> rgskinne@ucalgary.ca

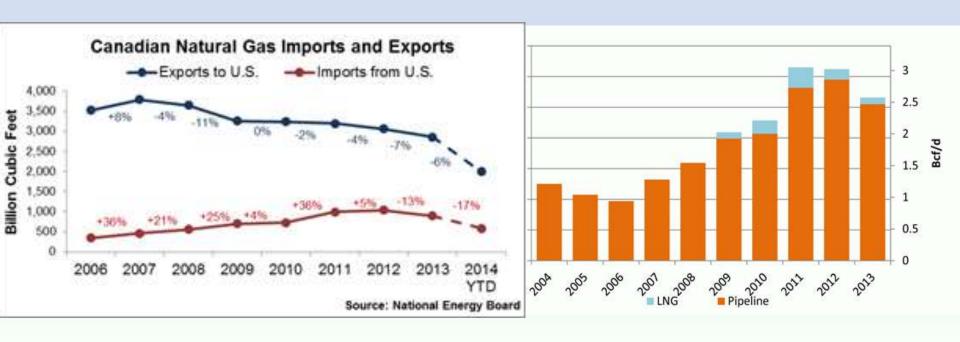
### Since last year...

- Pipelines more problematic
  - Keystone: 6 years and counting
  - Northern Gateway: OK, but...
  - Trans-Mountain PL: Civil disobedience & GPS incompetence
  - Line 9: OK but still pockets of opposition
  - Energy East: Application in, Placards out;
  - Meanwhile pipes getting built and oil moving by rail; i.e. some pipes raise sea level more than others!
- LNG proposals for both coasts stack up but no FIDs yet;
  B.C. LNG Tax and Env laws in place but regulations still unknown.
- Oil price the big concern
- New Premier in Alberta

### Alberta's Non-Renewable Resource Revenues (\$mm)

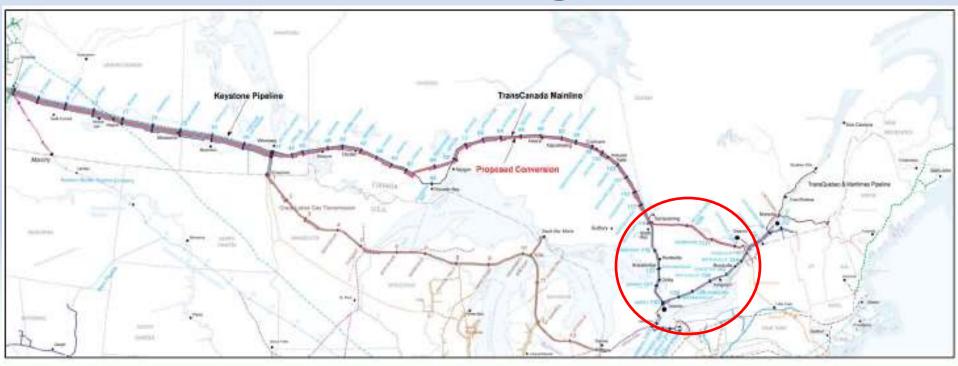


## Central Canada shifting to US gas



While the methane that bakes their baguettes comes from fracked wells in the U.S., Quebec will not allow fracking in the province.

## **Energy East Pipeline Proposal Eastern Triangle LDCs**

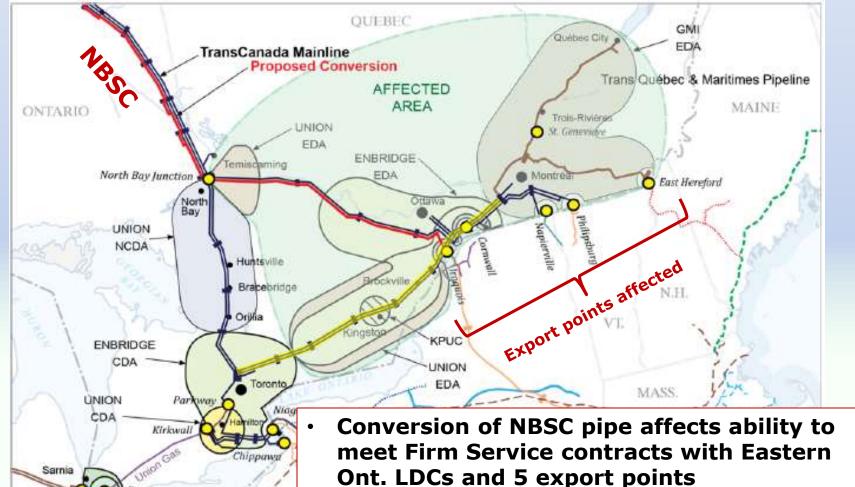


Source: TCPL Application to NEB; ENERGY EAST V. 1, Sec. 1 Project and Application Overview

Led by Quebec LDC, TQM, central Canada LDCs contesting conversion to oil service.

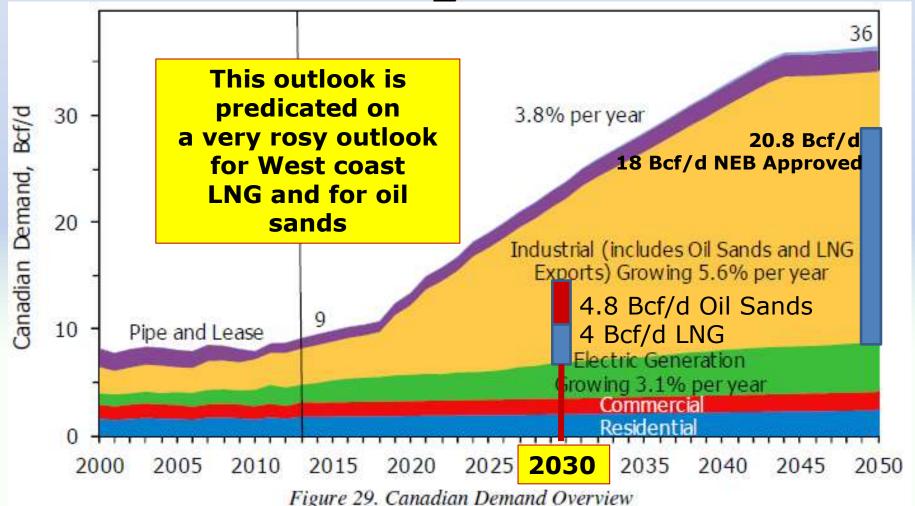
GMi (50% TQM) has political origins and no reason to think this issue will not become very political before it is concluded.

#### **The Affected Area**



- Ont. LDCs and 5 export points
- 0.54 bcf/d capacity shortfall, therefore
  - New pipe/compression Toronto → Montreal

### Ziff's outlook for long term Canadian gas demand



Oil Sands gas needs based on CAPP Crude oil forecast 2014; LNG own estimates

# 2010 Gas imports & exports (Ziff)

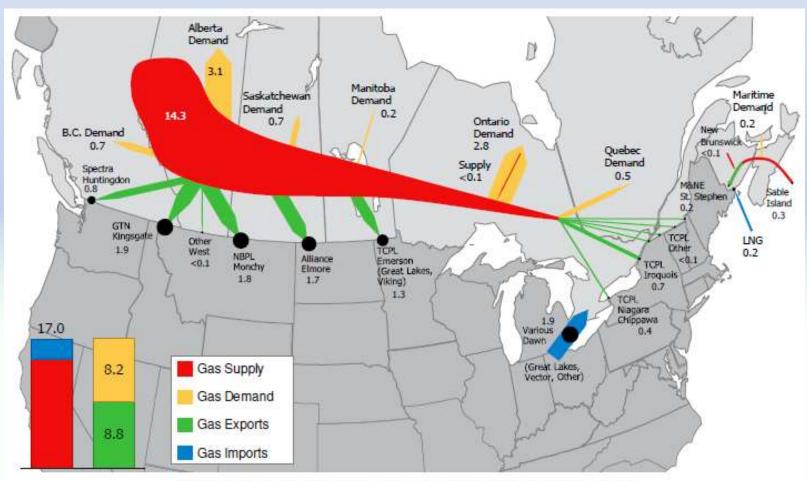


Figure 37. Canadian Gas Imports and Exports (Bcf/d), 2010

# Projected 2050 gas imports & exports (Ziff)

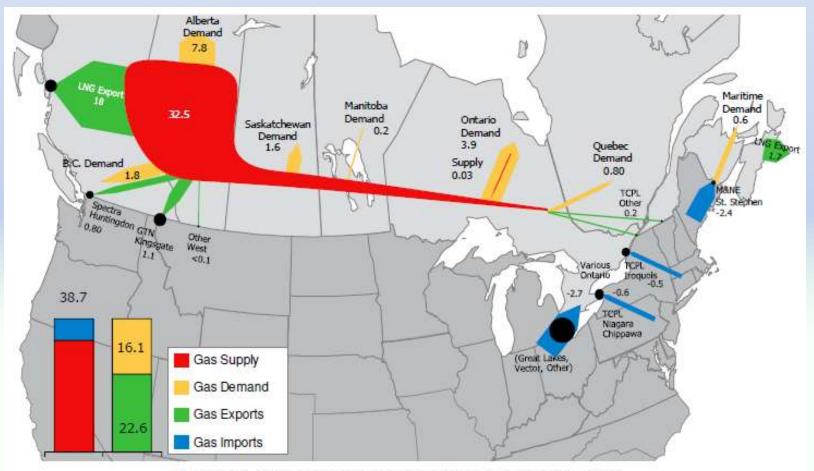


Figure 38. Canadian Gas Imports and Exports (Bcf/d), 2050

### The Long Term Natural Gas Map for Canada?

Western Canada Sedimentary Basin



- Conventional gas continues to whither
- Drilling Shifts west to wet shale plays
- Gas stays home & goes west
  - Oil sands steam and power
  - West coast LNG, (Can & US) as
  - Traditional Eastern Canada and mid-western US markets captured.

Demand centre in Central Canada



- Demand grows slowly
- Based on imported US shale gas
- Some LNG exports on East Coast fed by Marcellus and Utica shale gas