Assessing the Economic Impacts of the Keystone XL Pipeline

Woodrow Wilson International Center for Scholars, Canada Institute September 21, 2011 Jon Rozhon, Canadian Energy Research Institute



- Established in 1975
 - Not-for-profit institute, funded by government and industry
 - Independent, objective, relevant economic research to inform policy <u>www.ceri.ca</u>
 - Holds Oil, Gas, and Petrochemical conferences
 - Training arm now Oak Leaf Energy Training



CERI study

 25 and 10-year economic forecasts of Staged Oil Sands Development

Case 1 - Existing pipelines operations

- 25 year forecast Case 2 Exi
- Case 2 Existing pipelines + TCPL Keystone XL
 - Case 3 Existing + Keystone XL + Enbridge Northern Gateway
 - Case 4 Announced and Potential Capacity

10 year forecastCase 1
Case 2

How CERI Gauges Keystone XL Impact in North America

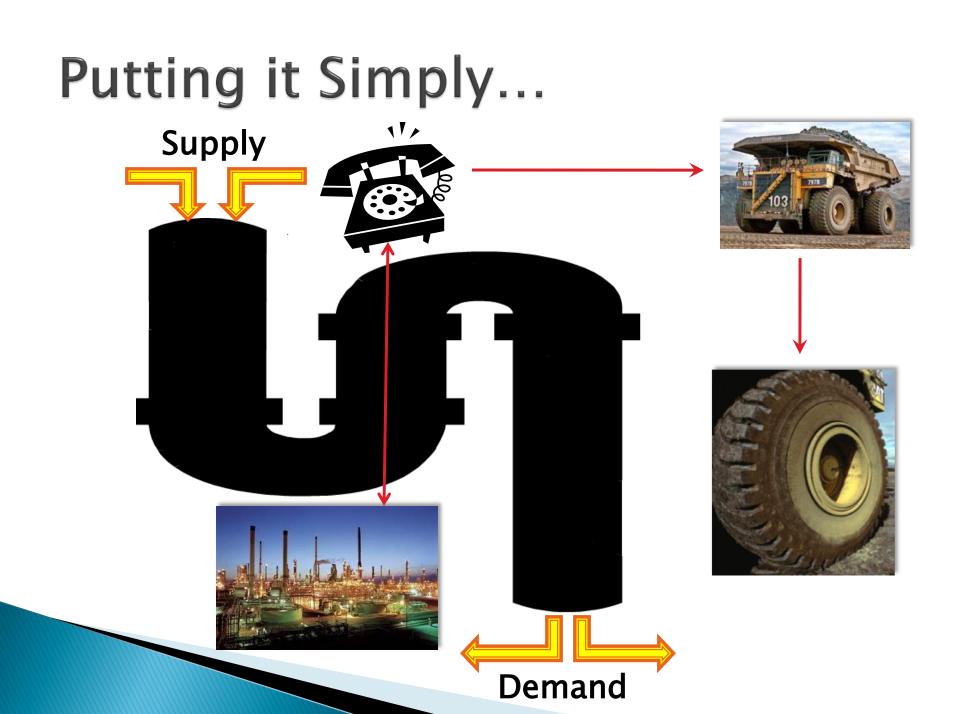
Multiregional I/O model for Canada

US national Use and Make tables (USBEA)

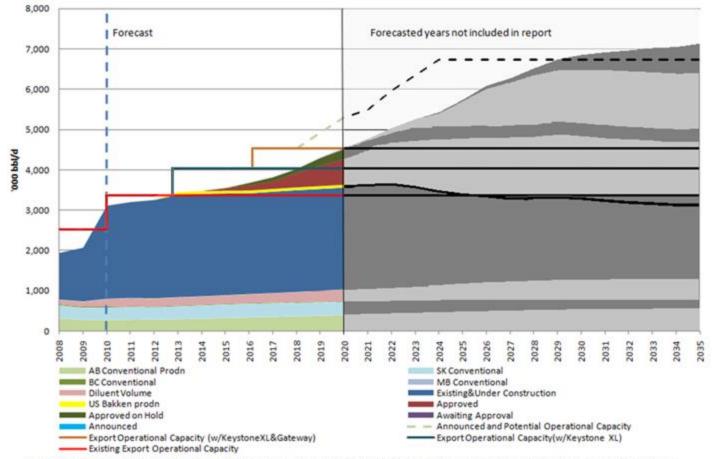
- CERI trade flow matrix developed for US Canada trade pattern. Industry specification the same, so covers trade flows among all sectors
- Some mapping is specific to the relationship between the countries e.g. oil sands industry in Canada exports to US Refineries, not US oil sands industry
- To report US economic impacts at state level, CERI constructed series of disaggregating coefficients – enables illustration of economic impacts of oil sands developments in Canada on each US state economy.
 - Coefficients reflect which states have strongest ties to Canadian energy sector supply of goods & services from US States to Canadian energy industry & demand for Cdn hydrocarbons by state

For a technical description of the CERI US-Canada Multi-Regional I/O Model, see Honarvar et al. CERI Report 124 Pp 45-57

http://www.ceri.ca/images/stories/CERI%20Study%20124.pdf



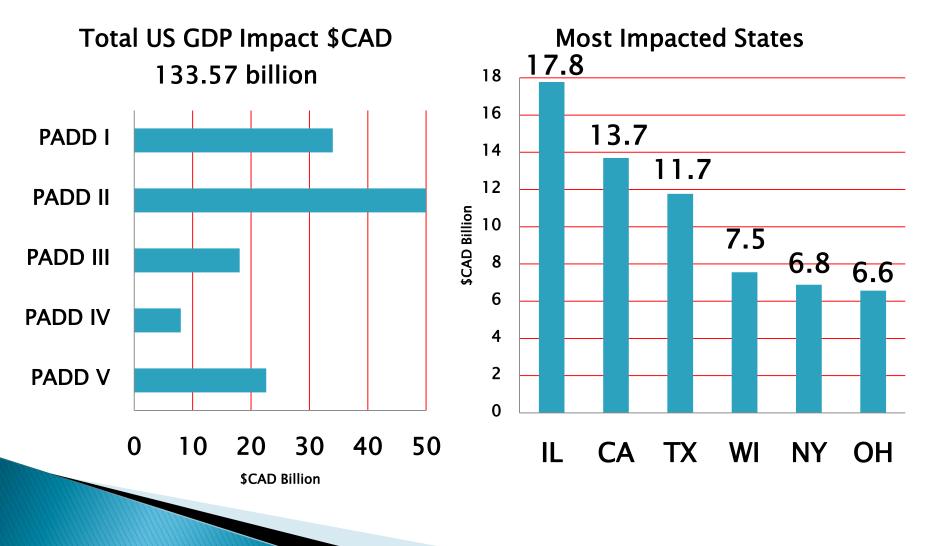
Western Canada Pipeline Capacity & Crude Exports



Note(s): 1)Operational Capacity is 90% of total design capacity. 2) The AB and SK conventional volumes are net production volumes available for export (i.e., domestic demand in AB and SK has been subtracted from total production). Similarly, bitumen volumes are net bitumen volumes and SCO.

June 22, 2011

US GDP Impact 2010-2020



US GDP Foregone if Keystone XL cancelled

\$CAD 46 billion over 10 years

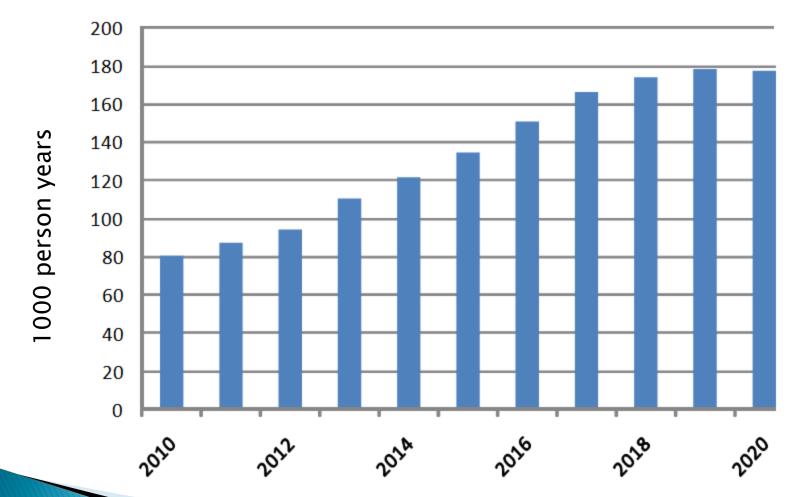
- 43% lost to PADD II
- 22% lost to PADD I
- 16% lost to PADD V
- 12% lost to PADD III

7% lost to PADD IV

Petroleum Administration for Defense Districts



US Employment Impact 2010-2020



US Jobs Foregone if Keystone XL Cancelled

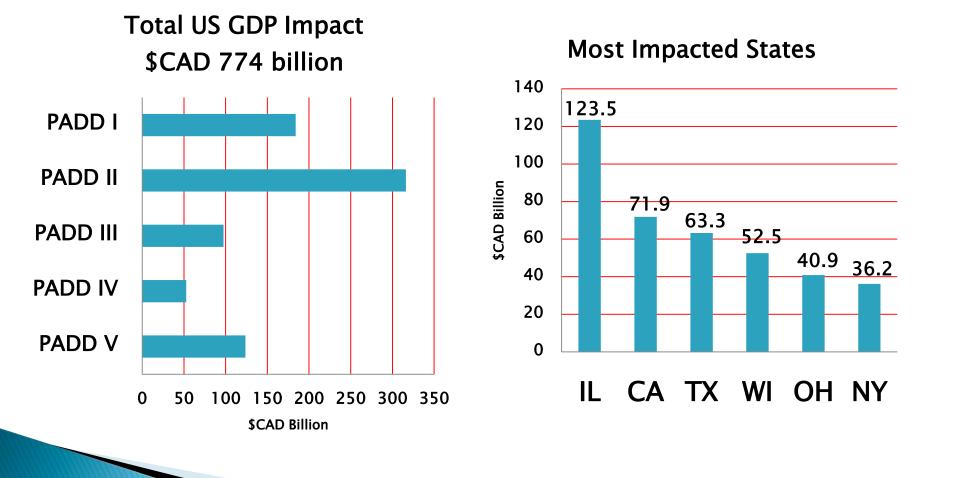
500,000 person years over 10 years

- > 215,000 person years PADD II
- 115,000 person years PADD I
- 75,000 person years PADD V
- 60,000 person years PADD III
- > 30,800 person years PADD IV

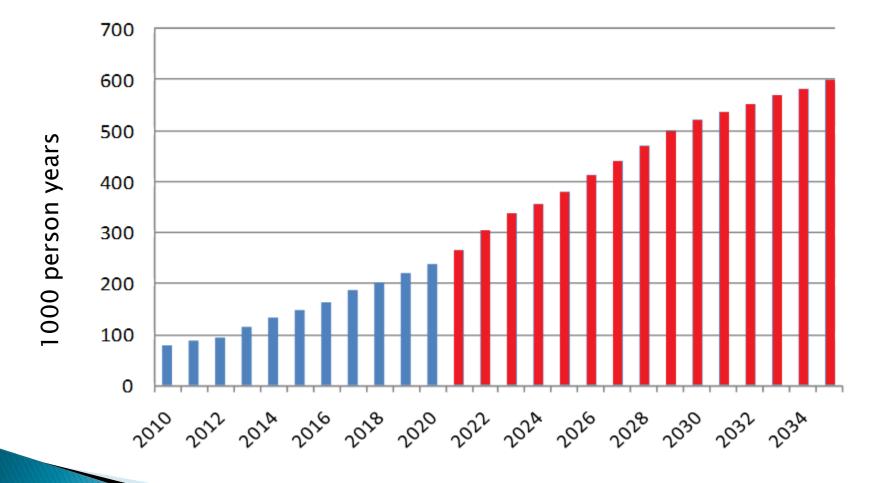


Geoff Lister/ The Ubyssey

Unconstrained Production over 25 Years – US GDP impact



Unconstrained Production over 25 years - US Job creation



US Crude Imports/Country Risk 2011

