

ORIGINAL	
R.N.P.U.C. Case No.	DE 11-250
Exhibit No.	#110
Witness	Michael E. Hachey

**Question:**

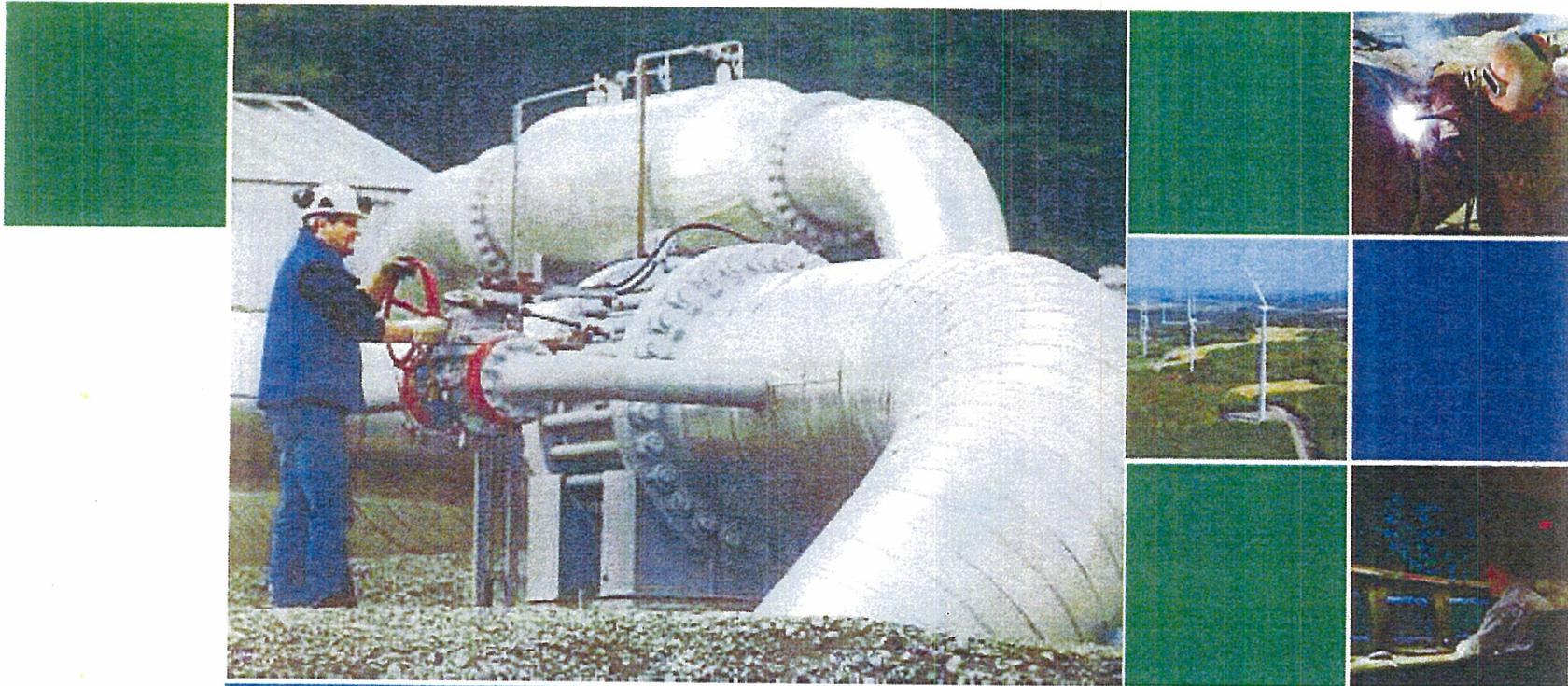
74.

b. As enumerated by the Commission in Order No. 25,663, at 7-8: “[P]roduce ‘any studies or statements made by TransCanada in the 2008/2009 timeframe on the effects of horizontal drilling and hydraulic fracturing on future gas supply and prices.’”

**Answer:**

b. The Companies previously objected to this request. Notwithstanding the objection and without waiving the same, attached is a copy of a presentation made by the President and CEO of TransCanada Corporation in November of 2008 which was also included as Attachment 1 to the Motion for Reconsideration and/or Clarification of Order No. 25,663 dated May 19, 2014.

Provided by: Michael Hachey



Energy Requirements and Planning in North America:  
2018

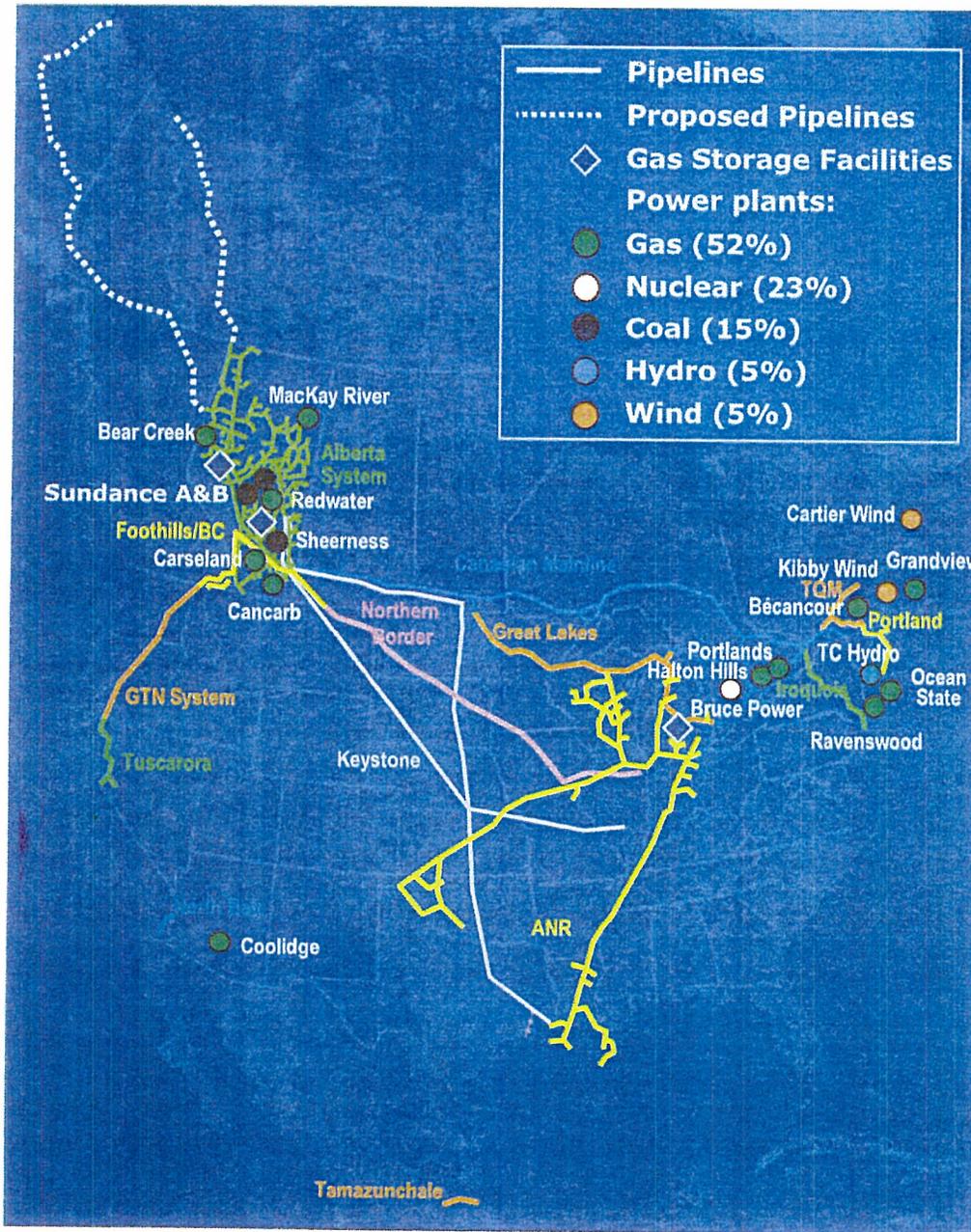
The Trilateral Commission, North American Regional Meeting  
November 22, 2008

Hal Kvisle  
President and CEO  
TransCanada Corporation



## Forward-Looking Information

This presentation may contain certain information that is forward looking and is subject to important risks and uncertainties. The words "anticipate", "expect", "may", "should", "estimate", "project", "outlook", "forecast" or other similar words are used to identify such forward-looking information. All forward-looking statements reflect TransCanada's beliefs and assumptions based on information available at the time the statements were made. Actual results or events may differ from those predicted in these forward-looking statements. Factors which could cause actual results or events to differ materially from current expectations include, among other things, the ability of TransCanada to successfully implement its strategic initiatives and whether such strategic initiatives will yield the expected benefits, the operating performance of the Company's pipeline and energy assets, the availability and price of energy commodities, regulatory processes and decisions, changes in environmental and other laws and regulations, competitive factors in the pipeline and energy industry sectors, construction and completion of capital projects, labour, equipment and material costs, access to capital markets, interest and currency exchange rates, technological developments and the current economic conditions in North America. By its nature, such forward-looking information is subject to various risks and uncertainties, which could cause TransCanada's actual results and experience to differ materially from the anticipated results or expectations expressed. Additional information on these and other factors is available in the reports filed by TransCanada with Canadian securities regulators and with the U.S. Securities and Exchange Commission. Readers are cautioned not to place undue reliance on this forward-looking information, which is given as of the date it is expressed in this presentation or otherwise, and to not use future-oriented information or financial outlooks for anything other than their intended purpose. TransCanada undertakes no obligation to update publicly or revise any forward-looking information, whether as a result of new information, future events or otherwise, except as required by law.



## Pipeline and Energy Assets

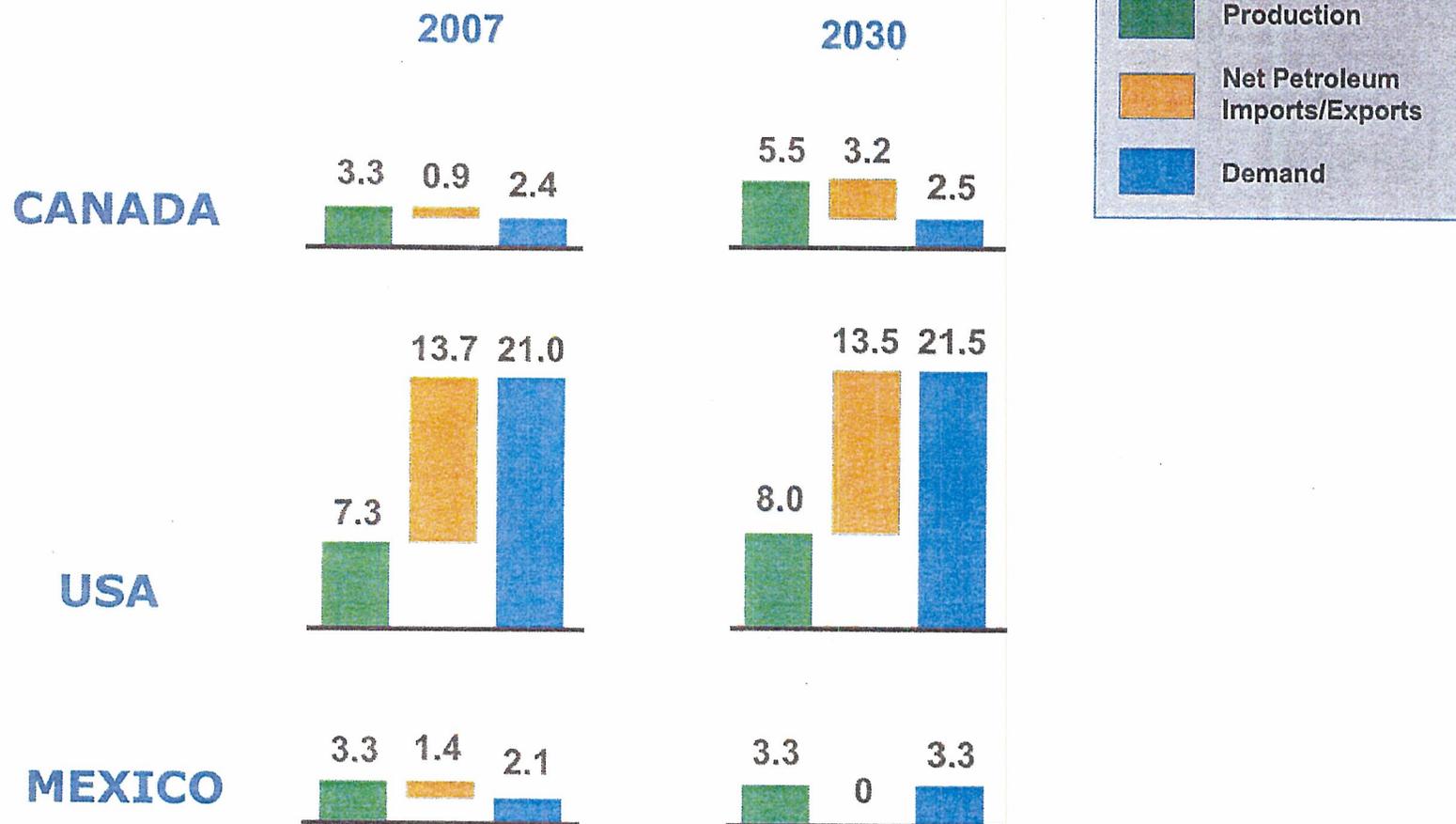
### Pipelines

- 59,000 km (36,500 mi) of wholly-owned natural gas pipeline, and interests in an additional 7,800 km (4,800 mi)
- 235 Bcf of regulated natural gas storage capacity
- Average daily volume of 15 Bcf
- Keystone oil pipeline 1.1 MMb/d

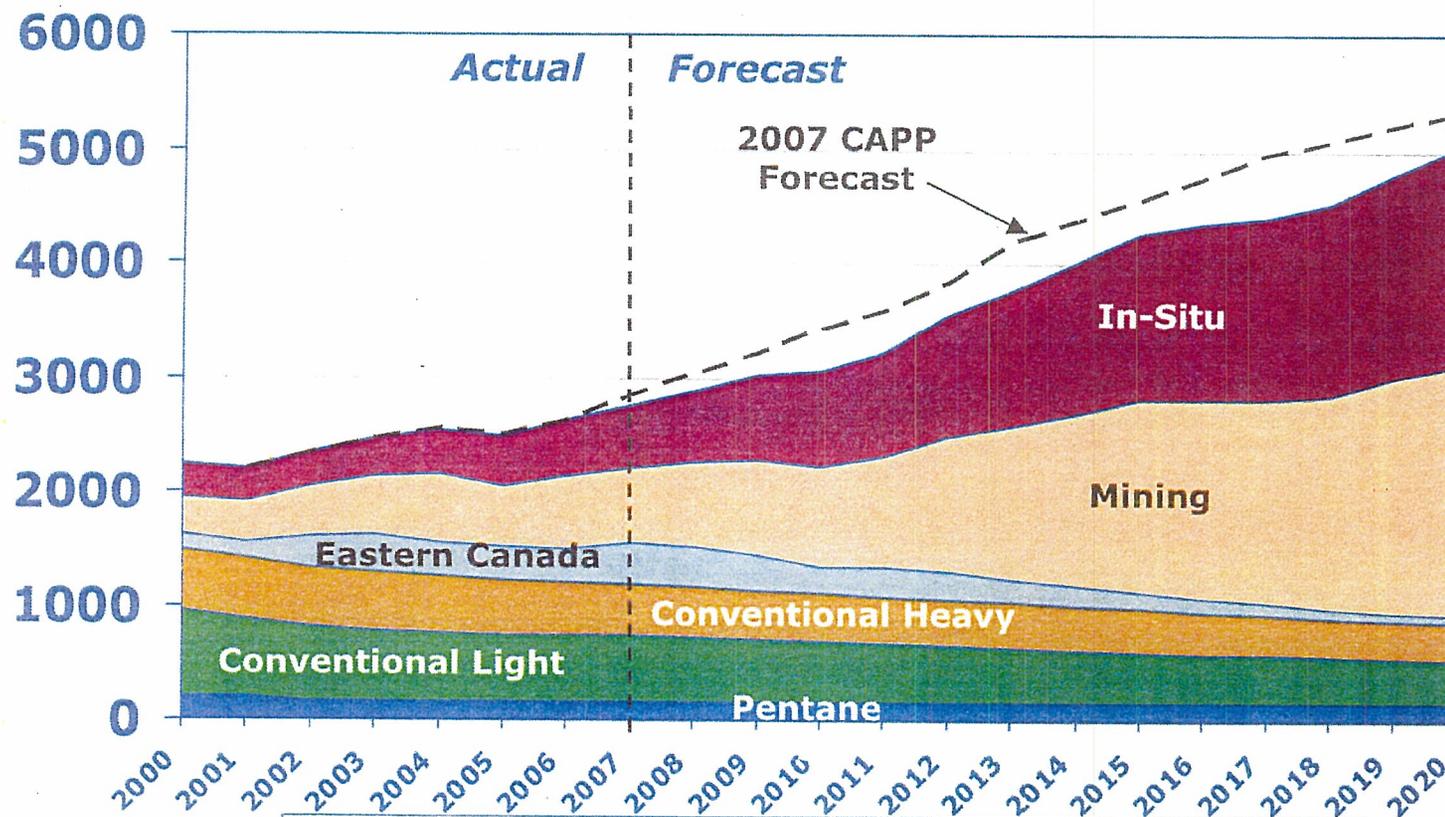
### Energy

- 19 power plants, 10,900 MW
- Diversified portfolio, primarily low-cost, baseload generation
- 120 Bcf of non-regulated natural gas storage capacity

# North American Petroleum Overview 2007/2030 (MMb/d)

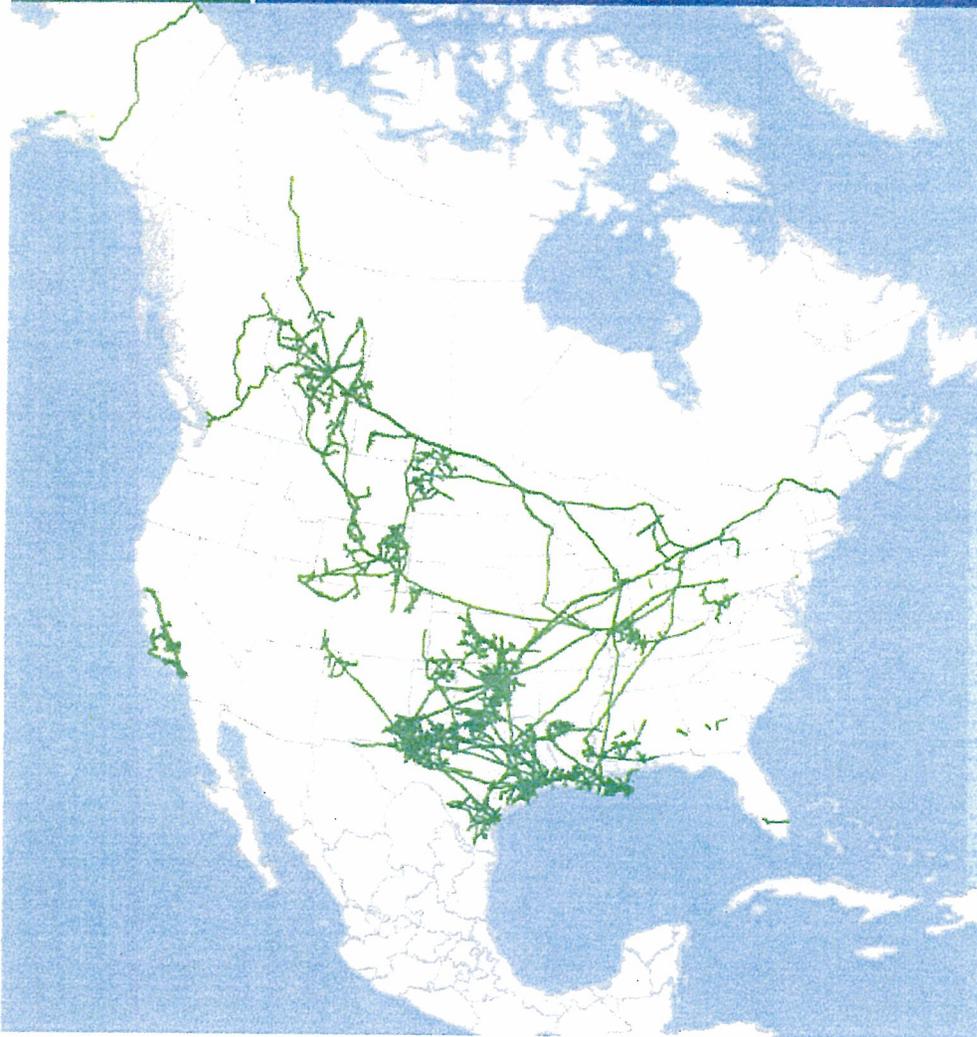


# Crude Oil: Canada Production Forecast



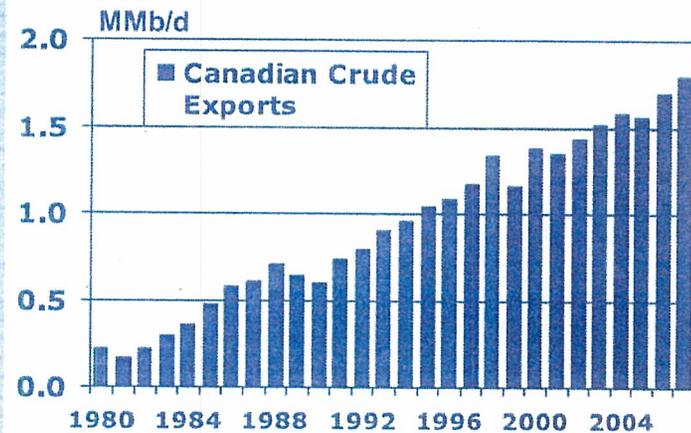
Reference: CAPP June 2008 Canadian Crude Oil Production & Supply Forecast (2008-2020)

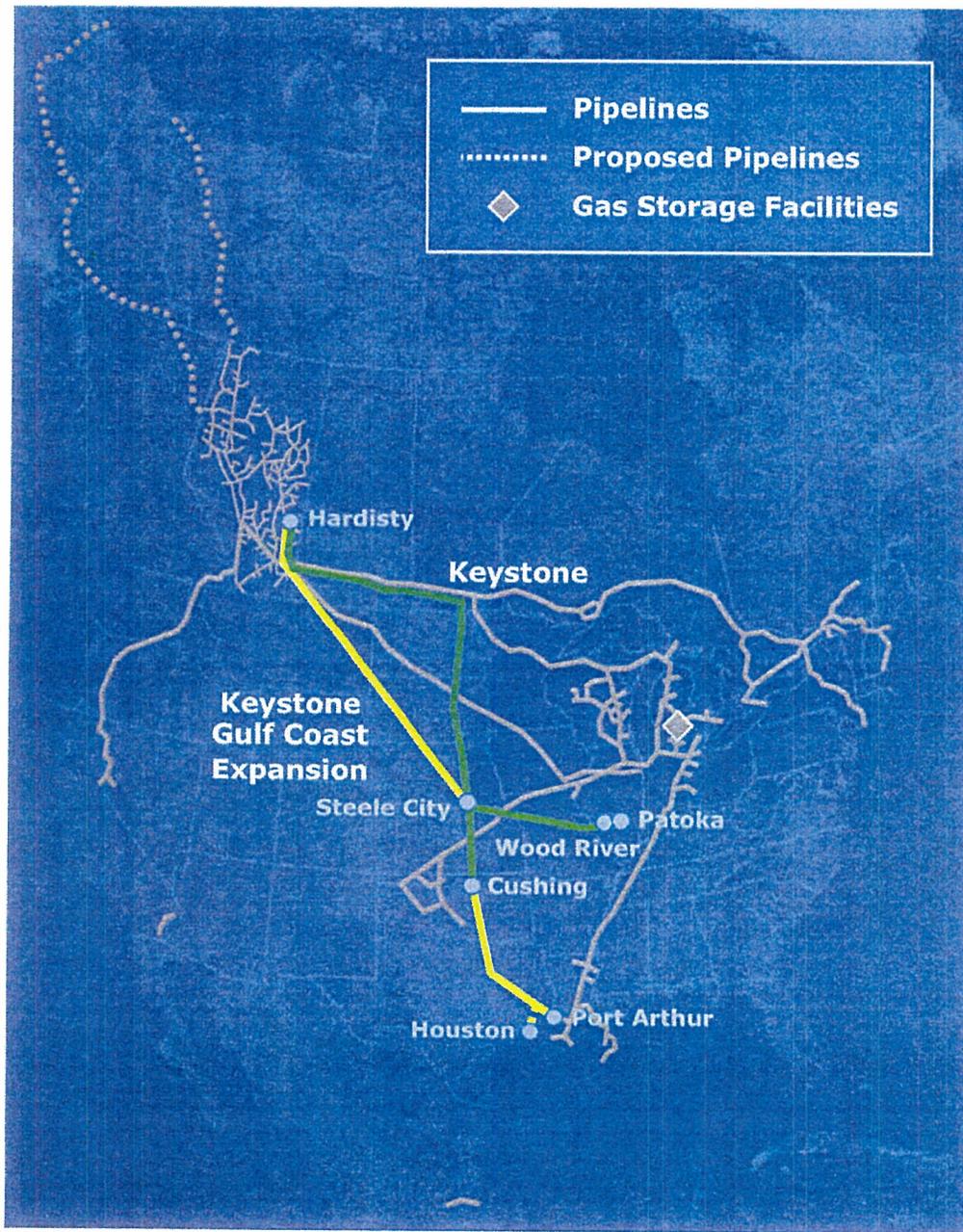
# Crude Oil: Canada Exported 1.8 MMb/d Worth \$41 Billion to the U.S. in 2007



2007 Crude Oil Demand  
(MMb/d)

Canada	2.3
U.S.	20.8
Mexico	2.0





# Keystone Oil Pipeline

## Keystone System\*

- 1,090,000 B/d capacity
- 830,000 B/d binding contractual commitments for an average term of 18 years
- Future expansion potential to 1,500,000 B/d capacity
- US\$12.2 billion, TransCanada 79%
- In service 2009 – 2012

\* Comprises Keystone and Keystone Gulf Coast Expansion. Keystone in construction



## Keystone Under Construction

### Schedule:

#### 2008 Construction

- Conversion
- 4 pipeline spreads
- 27 pump stations
- 3 tanks

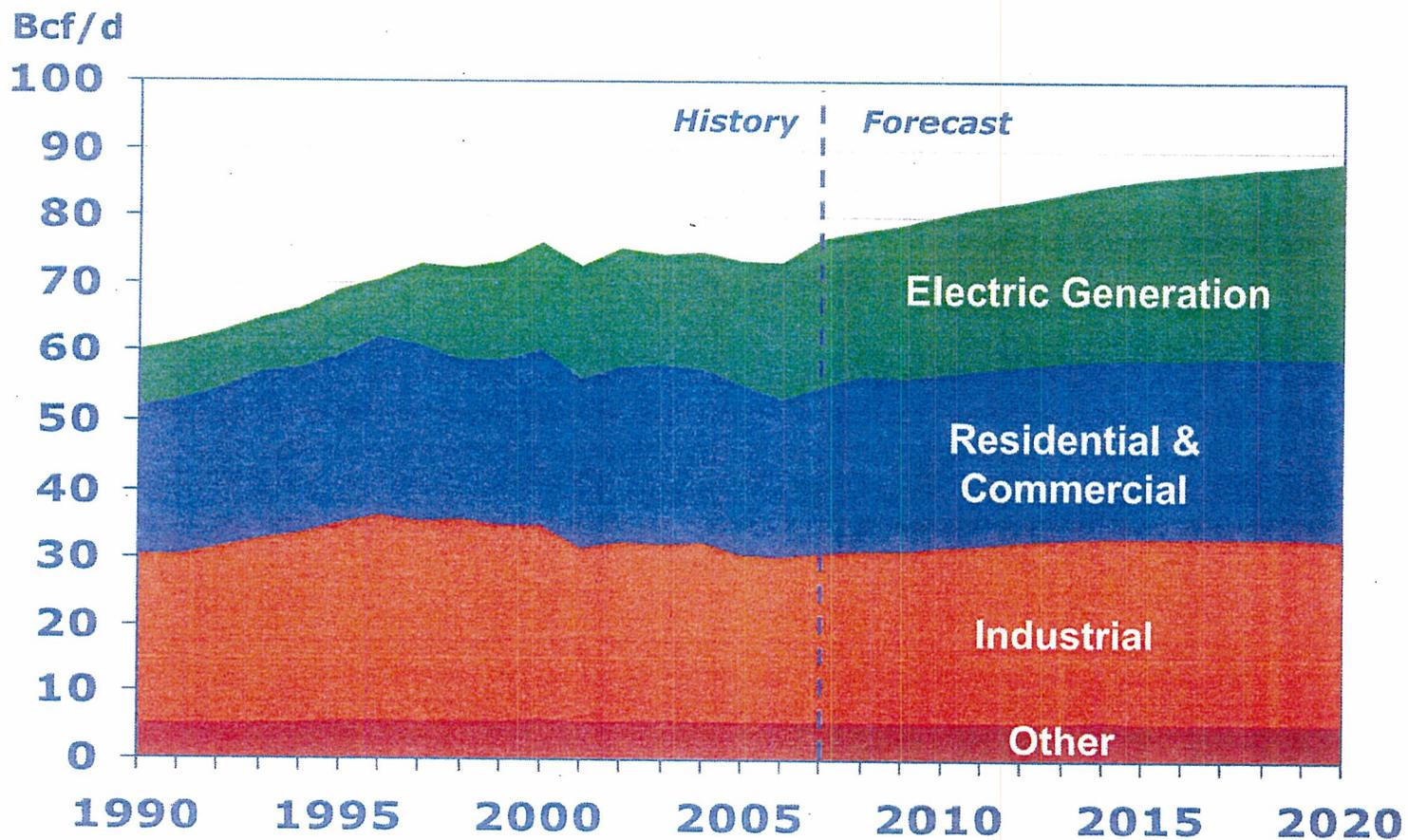
#### 2009 Construction

- 7 pipeline spreads
- 40 pump stations
- 3 terminals

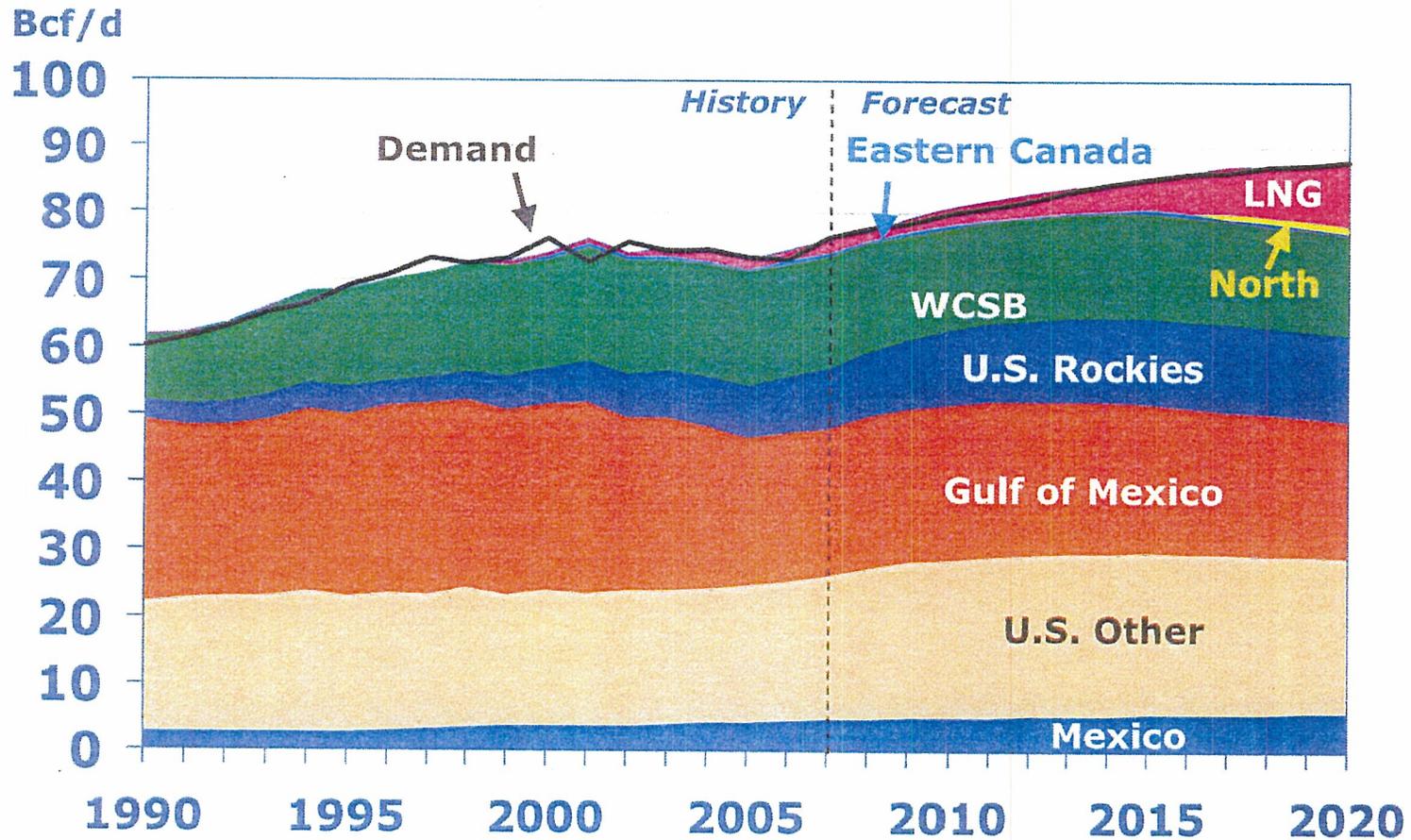
#### 2010 Construction

- 3 pipeline spreads
- 50 pump stations

# North American Gas Demand



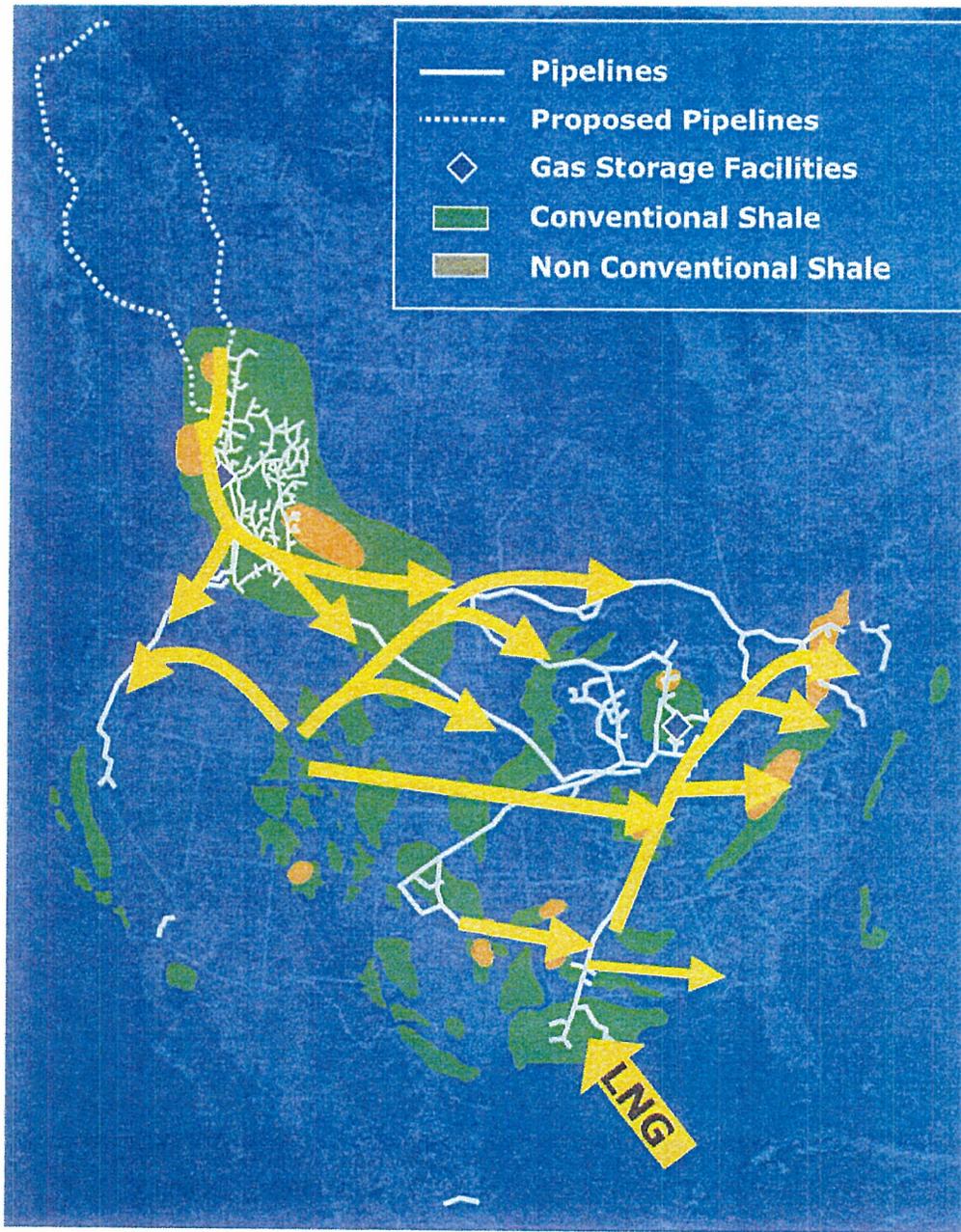
# North American Gas Supply





# North American Natural Gas Resources

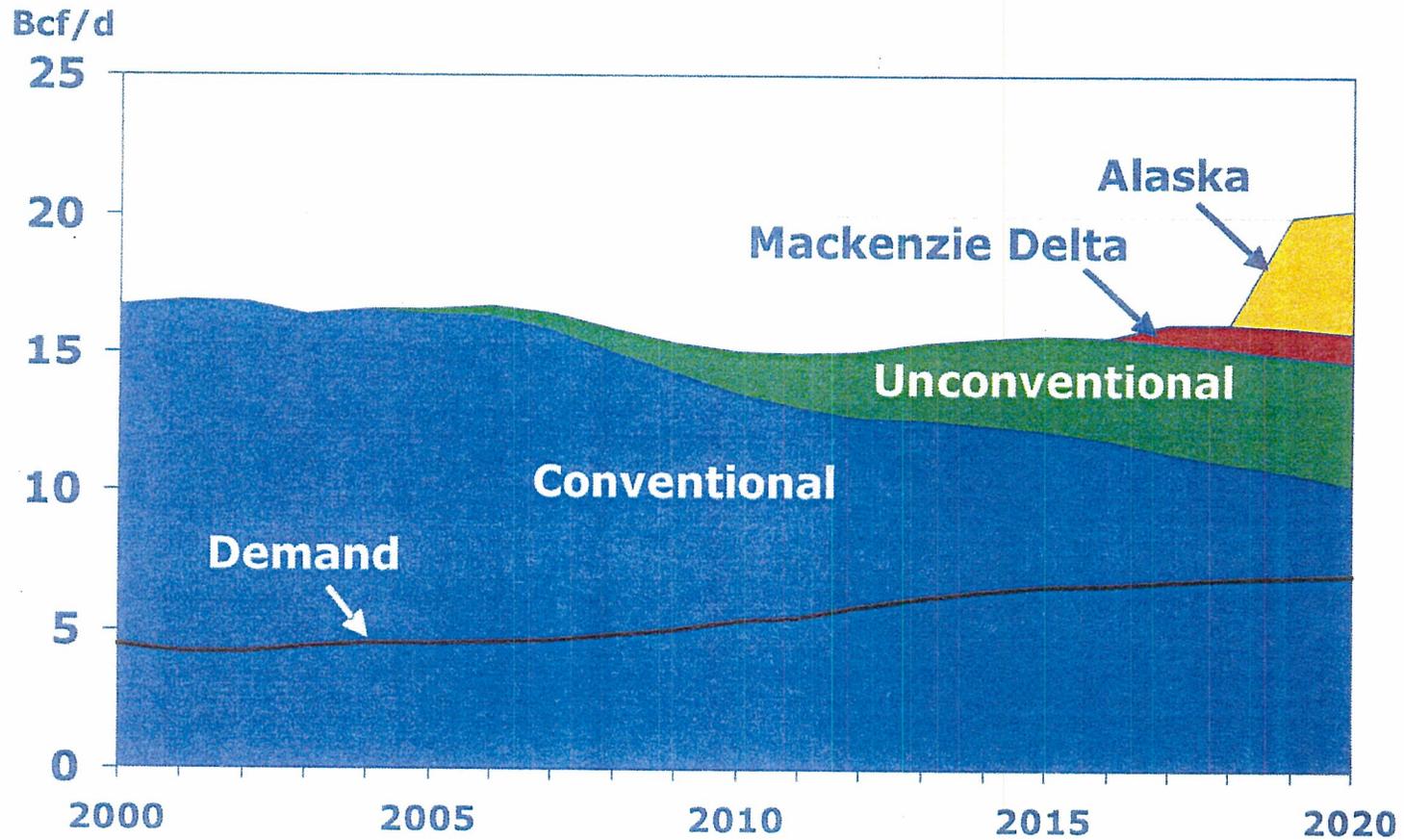
- Major conventional natural gas basins in North America marked in green
- Emerging shale natural gas basins (marked in brown) in North America may add significant supply



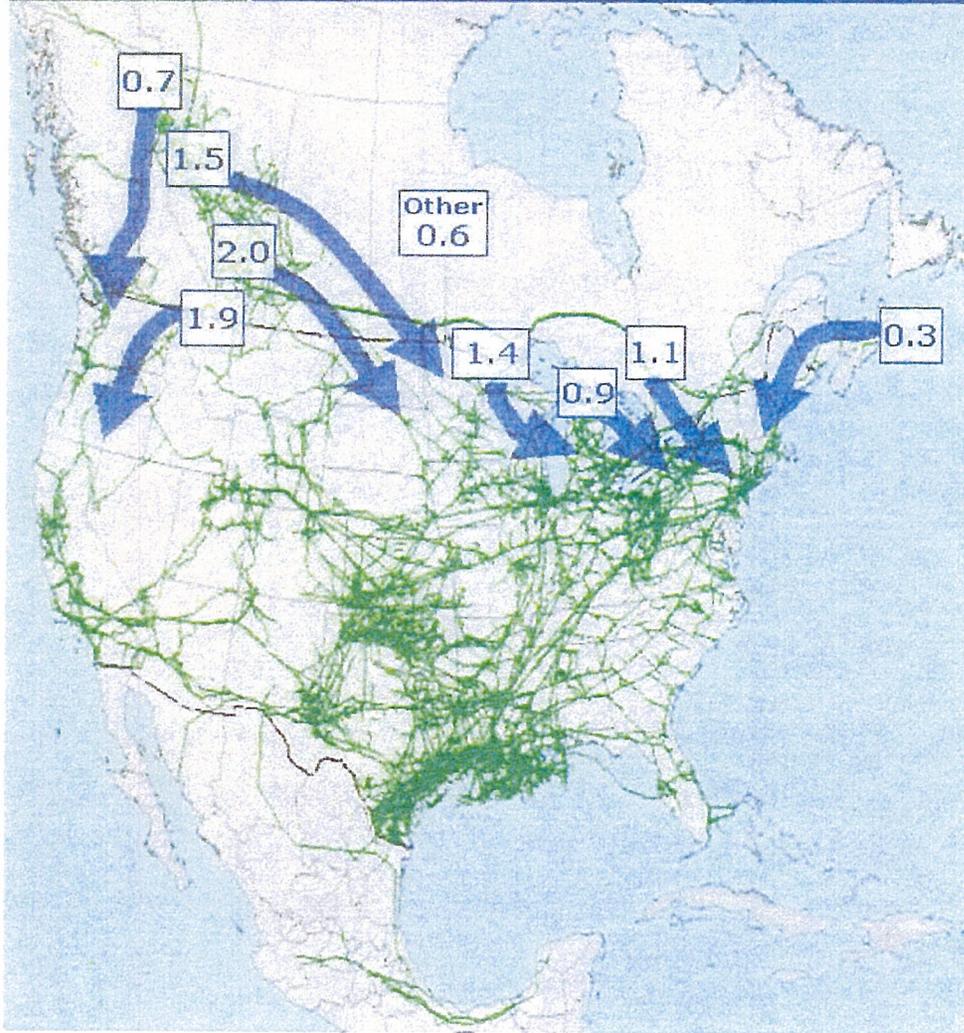
## North American Natural Gas Supply

- Flow patterns will shift
- Committed to playing a role in meeting the growing needs for energy infrastructure
- Progressing options for Midwest and Northeast U.S. markets to access incremental supply from the largest continental basins
- Leveraging our existing, integrated footprint across North America to deliver the most cost-effective and timely solutions

# Western Canada Gas Supply and Demand

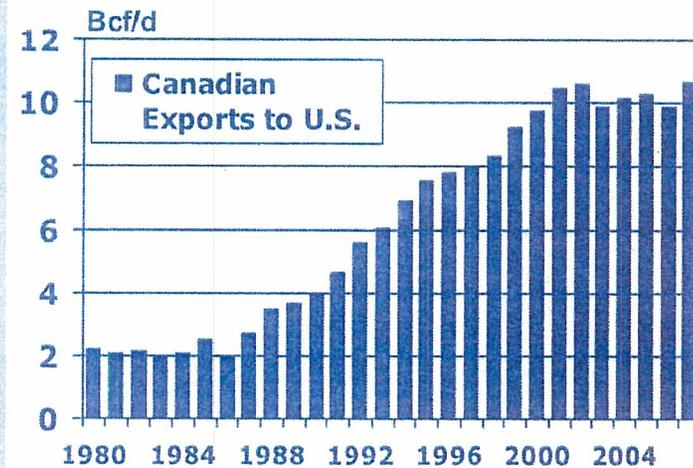


# Natural Gas: Canada Exported 10.5 Bcf/d Worth \$28 Billion to the U.S. in 2007



2007 Natural Gas Demand

	(Bcf/d)
Canada	8.5
U.S.	62.1
Mexico	5.8



# Potential Mexico Pipeline Projects

