

Pipelines – The Critical Enabler in Achieving Canada's Energy Potential

**Northern Transportation Conference
November 10, 2005**



**Canadian Energy
Pipeline Association**

Association canadienne
de pipelines d'énergie

Presentation Outline

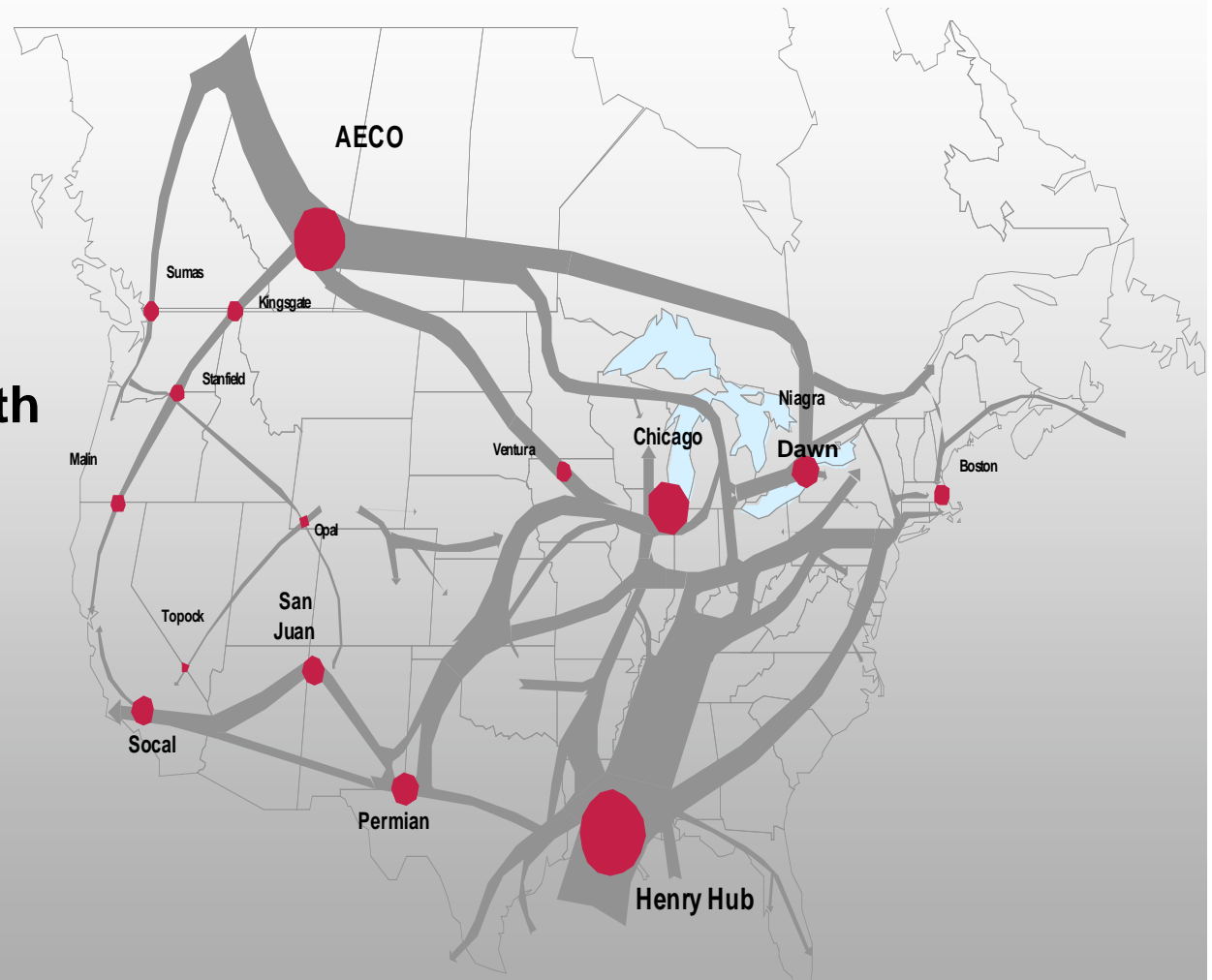
- **Who is CEPA?**
- **North American Demand & Supply**
- **Pipeline Infrastructure – The Critical Enabler**
- **Achieving Canada's Energy Potential**

CEPA's Members

- 95% of the crude oil and natural gas produced in Canada is transported by our members
- In 2004, this represented 2.4 mm bbl/d of oil and 16.2 Bcf/d of gas
- Operate over 100,000 kilometres of pipeline in Canada and the United States
- Assets worth over CDN\$20 billion
- Projected capital investment of CDN\$20 billion over next 25 years
- TransCanada
- Enbridge
- Duke
- Alliance
- Terasen
- TransGas
- ATCO
- Trans-Northern
- Maritimes & Northeast
- BP Canada
- Foothills
- Trans Québec & Maritimes

Pipelines – The Ties That Bind

- **Continent-wide, transmission and distribution network**
- **Dense delivery network combined with storage capability handles peaks and disruptions**
- **Responsive, on demand deliverability**



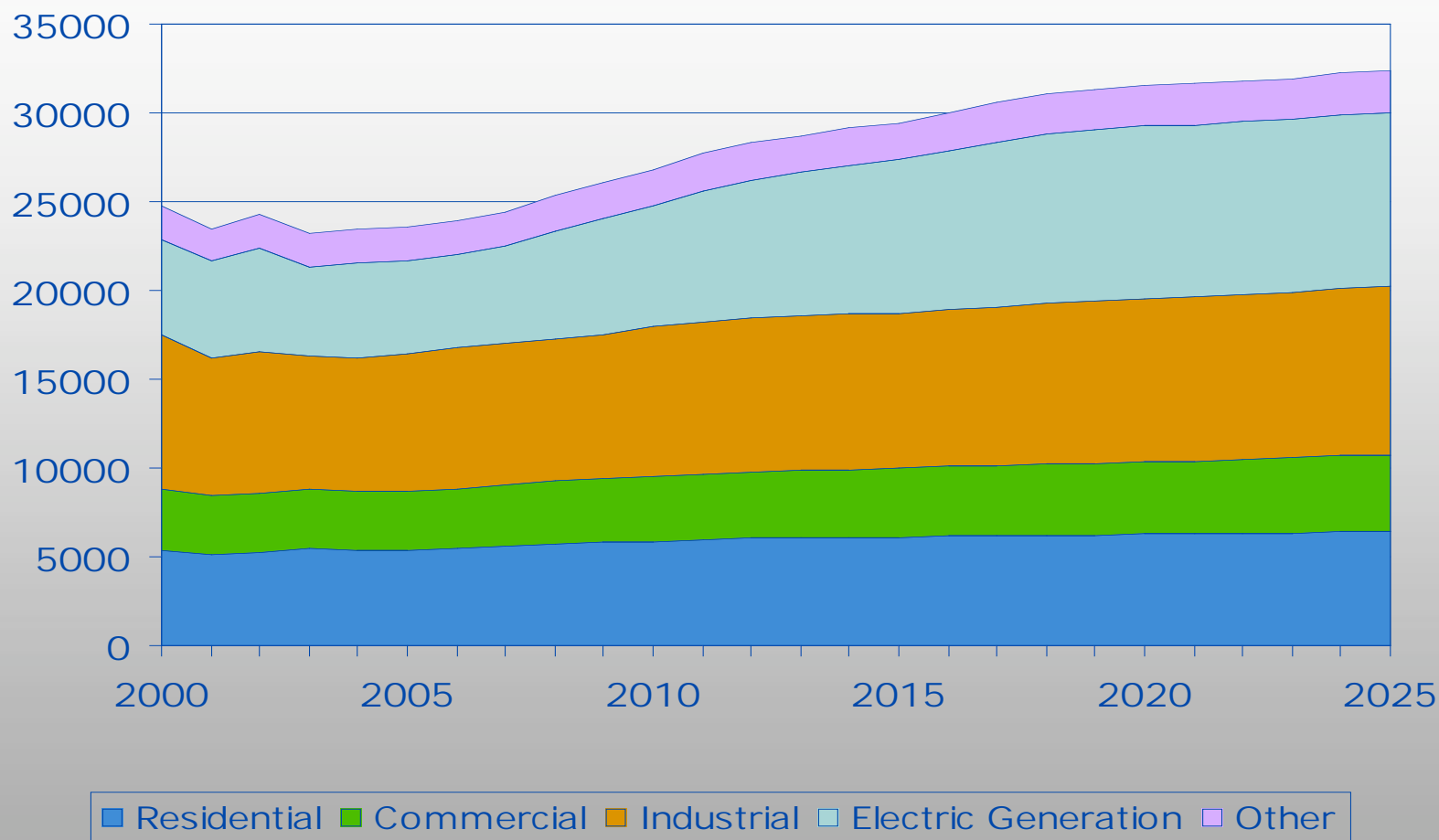
Source: EIA, ARC Financial



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Consumer Demand is Growing...

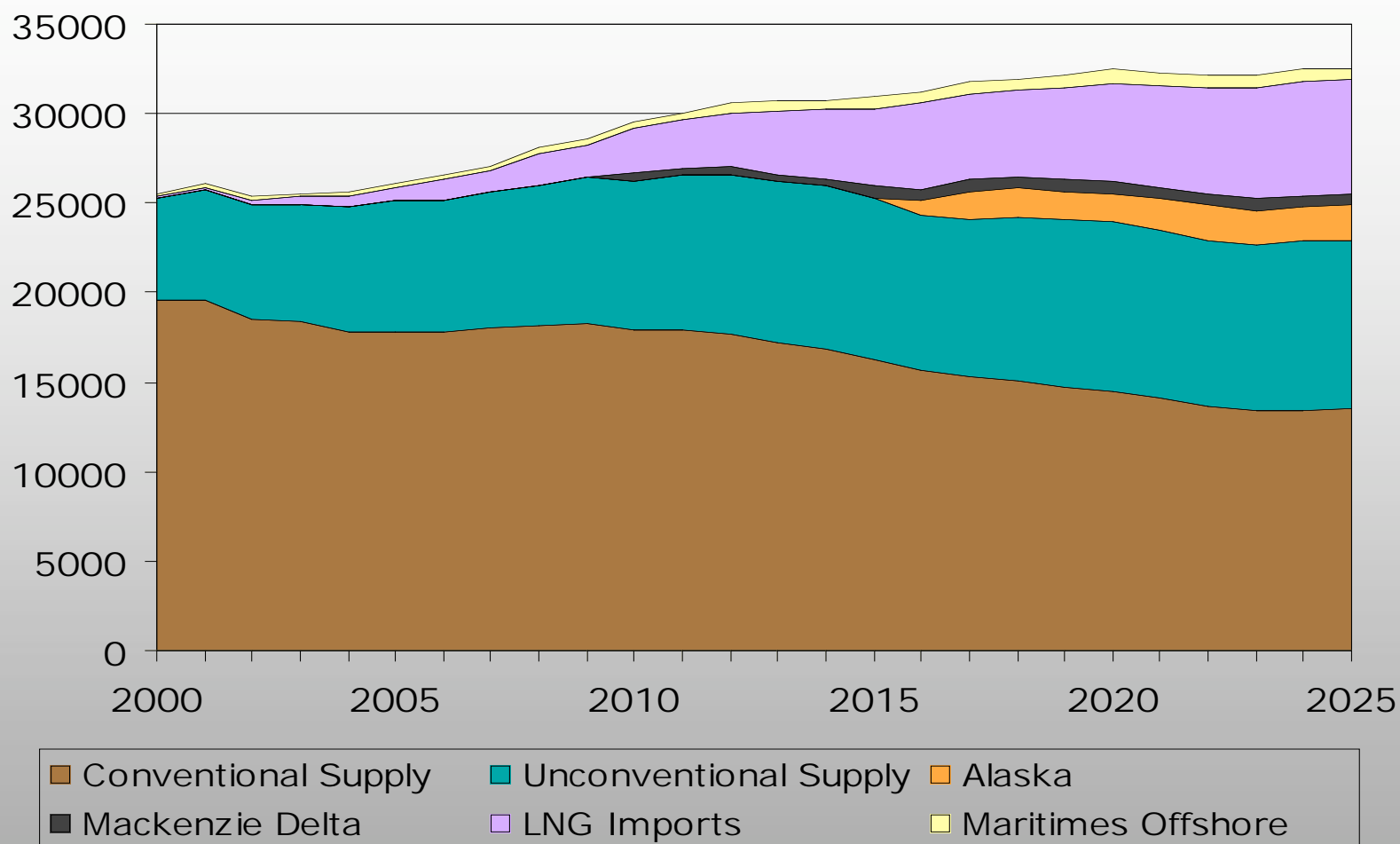
North American Gas Demand (Bcf)



Sources: EIA Annual Energy Outlook 2005 (US data), NEB Supply Push Outlook (Canadian Data)

Supply Security Requires New Sources...

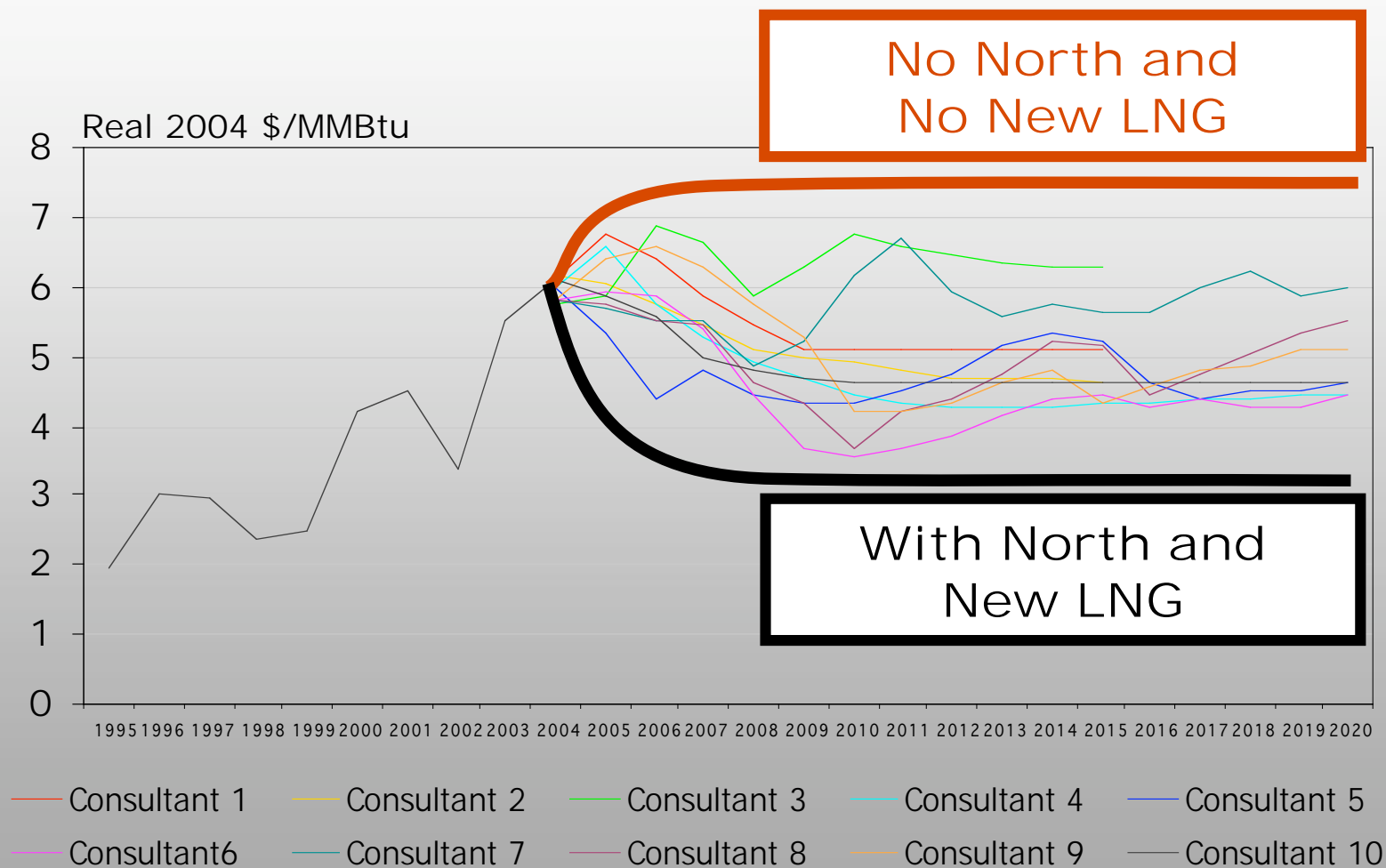
North American Gas Supply (Bcf)



Sources: EIA Annual Energy Outlook 2005 (US data), NEB Supply Push Outlook (Canadian Data)

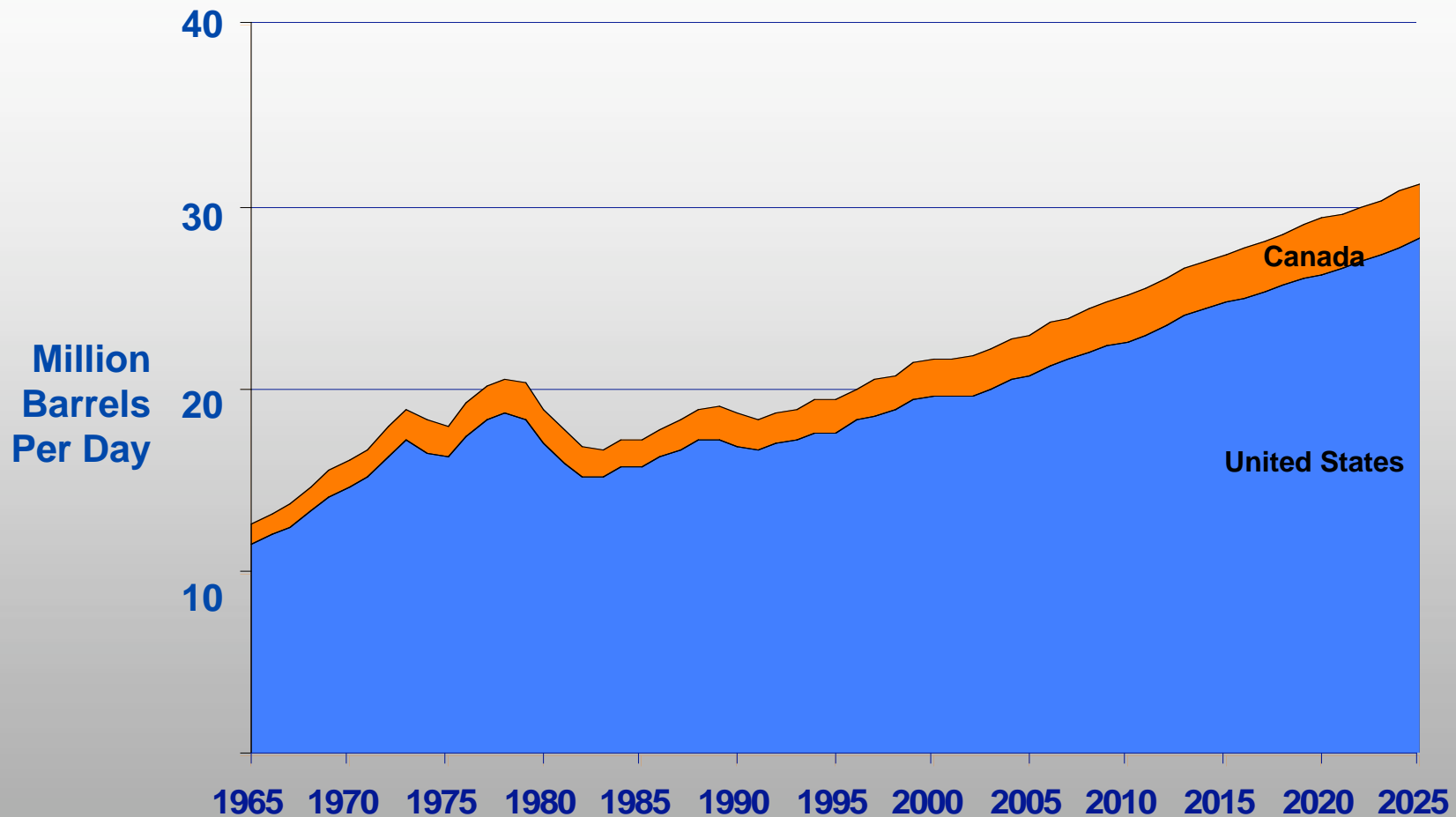
Price Demands New Infrastructure

Comparison of NYMEX Gas Price Forecasts



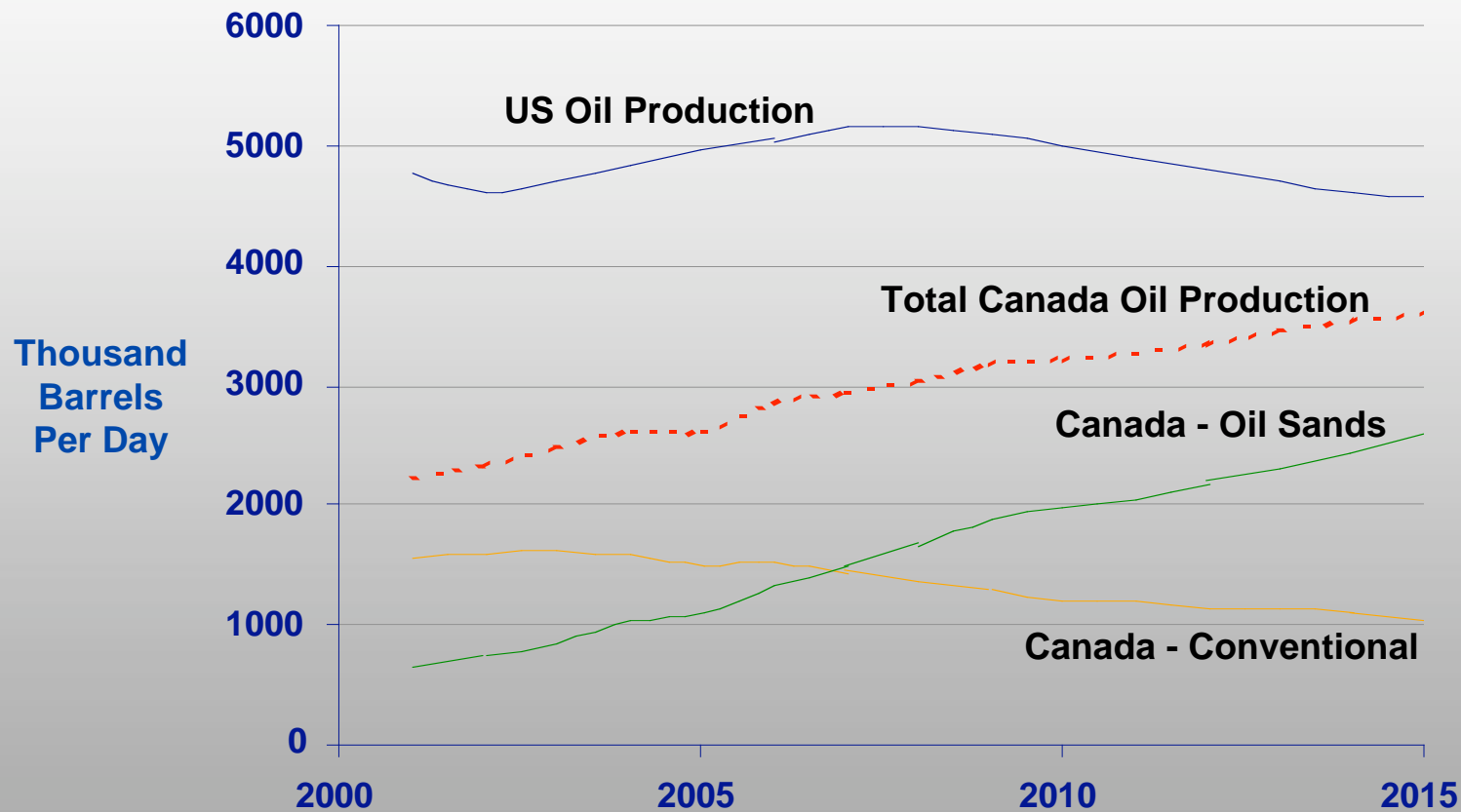
Source: TransCanada PipeLines

North American Oil Demand



Source: NEB, EIA, BP Statistical Review

North American Oil Supply

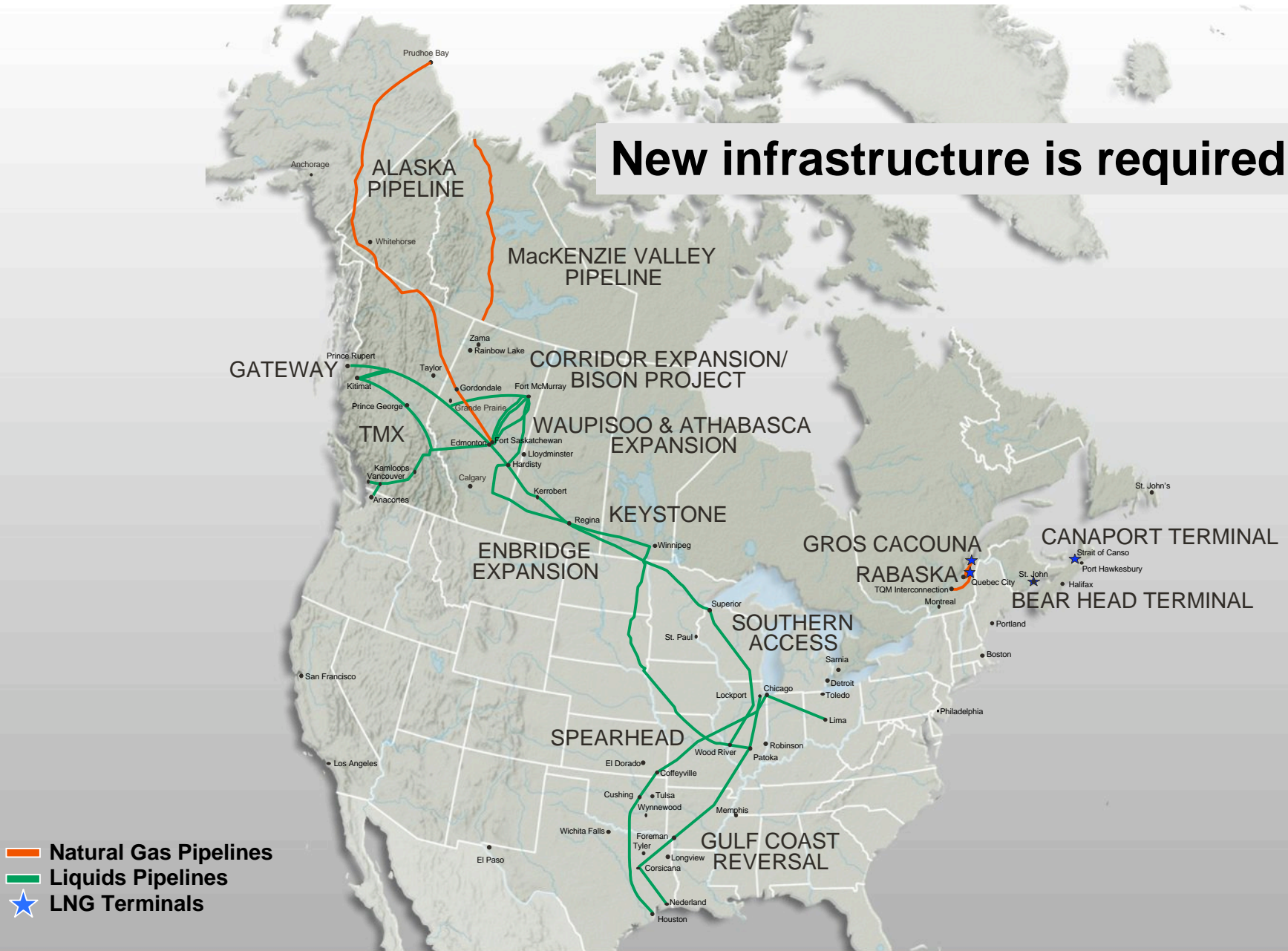


Source: EIA, CAPP

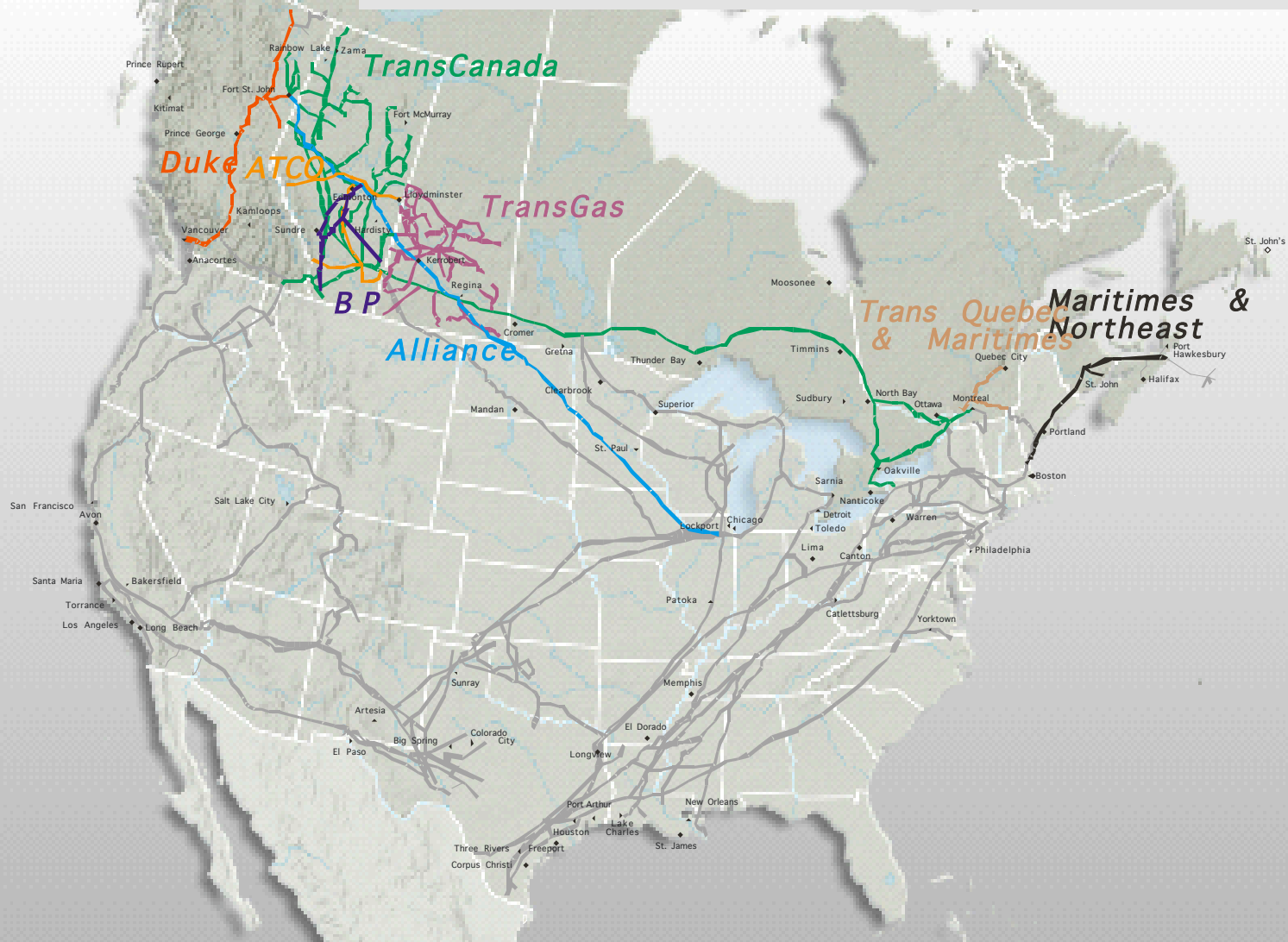


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New infrastructure is required



But it will build on existing systems



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Member Company
Natural Gas Pipelines



Costs of Delay and Benefits of Timely Energy Infrastructure Development

- **CEPA commissioned a study to:**
 - define the cost to Canadian consumers of infrastructure delays; and
 - highlight the benefits of pipeline development to Canadians, regardless of where they live relative to construction
- **The study estimates the cost of a two-year delay in the construction of natural gas pipelines, Liquefied Natural Gas (LNG) and natural gas storage infrastructure required to meet forecast demand between 2005-2025**
- **Using a hypothetical “Project X”, the study also defines the benefits of pipeline development in terms of jobs created, GDP increase and additional taxes paid to governments**

Delays in Pipeline Construction Costly to Canadian Consumers

- **Net result of pipeline construction delays is higher natural gas costs**
- **\$57.7 billion cost to Canadians between 2006-2025**
- **40.4% of Ontario impact falls on residential gas consumers**
- **73.7% of Alberta impact falls on industrial gas consumers**
- **53.2% of Quebec impact falls on industrial gas consumers**
- **Higher gas prices would also raise electricity and consumer goods prices**

Jurisdiction	Total Cost
Atlantic	1,978.2
Quebec	4,470.5
Ontario	19,189.1
Manitoba	1,567.2
Saskatchewan	2,943.8
Alberta	20,218.7
B.C.	7,374.5
Canada	57,742.0

Pipeline Construction Benefits – “Project X” Assumptions

- **“Project X” modeling assumptions:**
 - 1000 kilometer, 36-inch main line – half in Alberta and half in BC
- **Selected pipeline proposals in comparison:**
 - Alaska
 - ▶ 3,440 Kilometer, 48-inch main line
 - Mackenzie
 - ▶ 1,220 Kilometer, 30-inch main line
 - Gateway
 - ▶ 1,200 Kilometer, 30-inch oil export main line and a 20-inch condensate import main line
 - TMX
 - ▶ 1,200 – 2,100 Kilometer, 30-inch main line

Pipeline Construction Benefits – GDP Increase from “Project X”

- \$939.5 million increase in Canada’s GDP
- 26.3% of indirect GDP increase outside BC and AB
- \$42.5 million in indirect tax revenues to governments

	Direct	Indirect	Total
Atlantic	0.2	2.5	2.7
Quebec	4.0	24.3	28.3
Ontario	15.5	80.2	95.7
Mb/Sk	6.9	22.2	29.1
Alberta	202.6	212.0	414.6
B.C.	211.7	155.9	367.6
Other	0.1	1.4	1.5
Canada	441.0	498.5	939.5

Pipeline Construction Benefits – Jobs Created by “Project X”

- 12,683 new jobs created in Canada
- 26.6% of indirect employment increase outside BC and AB
- \$680.1 million increase in national labour income
- \$103.8 million outside BC and AB

	Direct	Indirect	Total
Atlantic	2	33	35
Quebec	50	398	448
Ontario	194	1,129	1,323
Mb/Sk	62	314	376
Alberta	2,508	2,694	5,202
B.C.	2,715	2,564	5,279
Other	0	20	20
Canada	5,531	7,152	12,683

Achieving Our Energy Potential – Competitiveness Continuum

**Secure
Energy Supply**

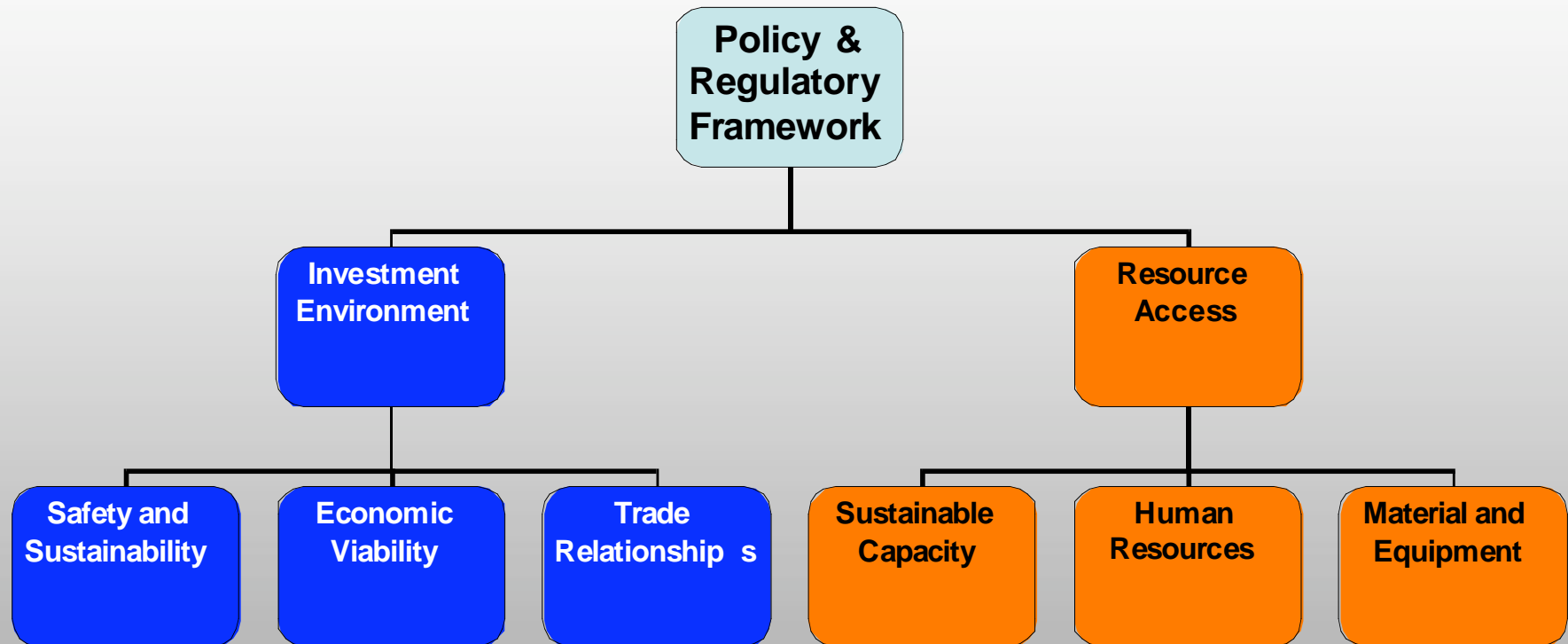
**Investment
Environment**

**Resource
Access**



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Achieving Our Energy Potential – Efficient & Effective Policy and Regulation



Competitive Investment Environment – Policy and Regulatory Framework

■ Principles

- **Respect jurisdictional responsibilities**
- **Provide clarity, certainty and predictability**

■ Outcomes and Performance Measures

- **Create an “Energy Policy and Regulation Competitiveness Index” that:**
 - sets performance indices for assessing regulatory efficiency efforts;
 - reports on how the Government of Canada is collectively dealing with issues that impede energy investment
- **Improve collection, analysis and dissemination of energy information and data through partnerships with organizations such as the Centre for Energy Information**
- **Provide for delegation of environmental assessments and substitution of panel reviews to the National Energy Board**
 - One project, one assessment

Competitive Investment Environment – Safety and Sustainability

- Ensure that policy and regulatory regimes provide clarity, certainty and predictability while providing for the safe and environmentally sound operation of pipelines
 - **Establish national standards for pipeline maintenance and construction**
 - ▶ Maintain world-leading record on safety and environmental performance while improving regulatory efficiency
 - **Develop and implement a national “One Call” program**
 - ▶ Give Canadians a more effective accident prevention tool



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Competitive Investment Environment

– Economic Viability

- Make Canadian companies and projects a preferred destination for foreign and domestic capital investment
 - **Reduce personal and corporate tax rates**
 - ▶ Canadians should choose how their tax dollars are spent
 - **Continue with pipeline CCA rate improvements**
 - ▶ Make depreciation rates competitive with U.S.
 - **Eliminate the federal capital tax**
 - ▶ Implement prior to the announced phase-out date
 - **Provide certainty on climate change related risks**
 - ▶ Maintain commitment to limit compliance liability to a maximum of 12% reduction from business as usual at a cost of no more than \$15 per tonne of CO_{2e}
 - ▶ Do not list carbon dioxide and methane (the primary component of natural gas) as toxic substances under the Canadian Environmental Protection Act

Competitive Investment Environment

– Trade Relationships

- Make Canada an exemplar of free trade and market principles
 - **Promote open and free markets and respect for trade agreements**
 - ▶ Negotiation, not retaliation
 - **Observe market principles in order to encourage investment in Canada and job creation for Canadians**
 - ▶ Adhere to NAFTA
 - ▶ Don't link trade issues
 - **Communicate with Canadians about the role of markets and prices in determining investor and consumer behaviour**
 - ▶ Improve understanding of the need for new energy supply and infrastructure investments and assist Canadians to make sense of our energy challenges

Timely Resource Access – Sustainable Capacity

- Ensure timely, cost-effective resource access by creating efficient, sufficiently resourced processes
 - **Develop effective and efficient Aboriginal consultation guidelines**
 - ▶ Enhance process timelines and improve access certainty
 - **Provide adequate resources to Aboriginal peoples to improve capacity on development matters affecting their communities**
 - ▶ Eliminate project leveraging by Aboriginal peoples as they further define their rights
 - **Improve Land Use Planning Guidelines**
 - ▶ Promote F/P/T dialogue and public understanding
 - **Ensure regulatory agencies are properly resourced**
 - ▶ Decouple the National Energy Board (NEB) from Treasury Board salary guidelines
 - ▶ Improve timeliness and efficiency of applications processing

Timely Resource Access – Human Resources

- Ensure access to skilled human resources to facilitate timely and efficient project implementation
 - **Implement Foreign Credential Recognition**
 - ▶ Increase staffing flexibility for employers and allow new Canadians to fully and effectively contribute
 - **Increase investments in HRSD's Sectoral Partnerships Initiative**
 - ▶ Use increased funding to promote careers in, and awareness of, the industry and to improve labour market supply and demand forecasting
 - **Improve funding for innovative partnership opportunities with Aboriginal peoples**
 - ▶ Enable the development of Aboriginal-owned SME's, as well as job creation



Timely Resource Access – Material and Equipment

- Ensure an adequate supply of material and equipment to permit cost-effective project implementation
 - **Support Canadian supplier, manufacturing and contractor sectors in gearing-up for project demand**
 - **Eliminate barriers to the free movement of material and equipment**
 - ▶ Develop complimentary rules and regulations on issues such as vehicle weights between jurisdictions

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