



Energy Group

2nd Annual Calgary



ARCTIC GAS SYMPOSIUM

Tapping Secure Supply for Growing Markets

HEAR FROM INDUSTRY LEADERS AND EXPERTS INCLUDING:

BP Alaska-Canada Gas
 Imperial Oil Resources
 Houston Energy Group
 Deh Cho First Nations
 Inuvialuit Development Corporation
 North Slope Regional Corporation
 ATCO Frontec
 Petro-Canada
 Government of the Northwest Territories
 Fraser Milner Casgrain
 Enbridge, Inc.
 Foothills Pipe Lines Ltd.
 Williams Gas Pipelines - West
 TransCanada PipeLines Limited
 Aux Sable Liquid Products LP
 Williams Energy Canada Inc.
 Department of Revenue, Alaska
 ANGTL Company
 Geological Survey of Canada
 United States Geological Survey
 Inuvialuit Environmental and Geotechnical, Inc.
 Houston Contracting
 Merit Contractor's Association

- Results of the producers' feasibility studies on Arctic Gas
- Whether demand and current economics will sustain two separate pipeline routes
- Which route has greater likelihood of being constructed first?
- An update on critical Aboriginal land claims the along the pipeline route
- Beyond the North Slope and Mackenzie Delta: the future of gas exploration in the Arctic
- Overcoming the environmental challenges of gas production north of 60°
- Readiness of suppliers and workforces to construct an Arctic mega-project

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Official Publications



Thursday and Friday, March 7 and 8, 2002
 Hyatt Regency Hotel, 700 Centre Street South, Calgary, Alberta

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 or Register Online at www.CanadianInstitute.com

With billions of dollars on the line, can you afford to forego up-to-the-minute, valuable information on Arctic Gas development?

The continental priority to secure energy supply has kept Arctic gas development squarely in corporate strategic plans, despite recent price dips. Yet challenges abound in turning the vision into reality. Aboriginal concerns, environmental challenges, workforce availability, supplier readiness, and regulatory hurdles are just a few of the issues that must be addressed before the ground is broken.

The Canadian Institute's Second Annual Calgary Arctic Gas Symposium will bring together key players and industry experts to discuss up-to-the-minute developments on one of the most massive, exciting and lucrative proposals in North America history. You will hear the very latest developments on:

- Results of the producers' project feasibility studies
 - Creating sustainable opportunities for Aboriginal communities
 - Petro-Canada's drilling in the Arctic
 - Regulatory challenges facing a pipeline construction application
 - Where Arctic NGLs should be processed
 - Future potential of Arctic gas plays
- And much more!

Attend this conference and get the most current, vital information you need to ensure your Arctic strategy is on track. The 2001 Arctic Gas Symposium in Calgary sold out, with over 300 delegates in attendance — be sure to register early for 2002!

Register Now! Call Toll-free 1-877-927-7936, in Toronto 416-927-7936, or Register Online at www.CanadianInstitute.com.

Conference Sponsor

nmi mobility
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NMI Mobility is northern Canada's premier wireless telecommunications provider. A wholly-owned subsidiary of BCE, **NMI** provides cellular, paging and satellite service to businesses and consumers located primarily north of the 60th Parallel.

NMI's 25,000-square-kilometre cellular network covers 55% of the population in all of the North's major centres and will be digitalized commencing in 2002. Links to southern networks support continent-wide roaming for **NMI** customers.

NMI operates the only fully digital alphanumeric paging network in northern Canada, and through three strategic partners—Globalstar, MSAT and Infosat (Skycom)—brings satellite service to one third of Canada's landmass.

NMI specializes in serving the oil and gas industry in northern British Columbia and in the Arctic's Beaufort Sea/Mackenzie Delta regions. **NMI** is highly skilled in delivering customized connectivity solutions for companies operating in remote northern areas.



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Thursday, March 7, 2002

8:00 **Registration Opens**
Coffee Served ☕

9:00 **Co-Chair's Opening Remarks**

James Harrington
President
Houston Energy Group

9:15 **From Vision to Reality: Tapping into the Arctic's Abundant Supply**

Dave Welch
President
BP Alaska-Canada Gas

Randy Ottenbreit
Manager Mackenzie Delta Opportunity
Imperial Oil Resources

- Results of the feasibility studies for the proposed Arctic projects
- Business case revisited: What is the threshold for project economics?
- The impact of short-term gas prices on project feasibility
- The government's role in moving the project forward
- What are known reserve estimates of the North Slope, Prudhoe Bay and Mackenzie Delta regions?
- Update on new regional plays and their influence on production
- How will projects be influenced by American National Energy Policy?
- Can the market support two separate pipelines?
- Is the over-the-top route still feasible?

10:15 **Networking Coffee Break** ☕

10:30 **The Impact of Arctic Gas on the North American Supply/Demand and Infrastructure Equation**

James Harrington
President
Houston Energy Group

- Results of the INGAA study on Arctic Gas supply and demand
- Long-term projection for natural gas demand in North America
- Supply-demand as it relates to the proposed Arctic Gas pipeline projects
- North American supply options: Arctic, coalseam, LNG, deepwater gulf gas
- Long-term analysis of natural gas fired power generation for the Lower 48
- A detailed price analysis of 2001, 2002 and beyond
- Infrastructure issues — pipeline capacity adequacy out of Alberta and to coastal markets
- Can the market sustain two pipelines to the Lower 48?

11:15 **Aboriginal Perspectives on Arctic Gas: Creating Sustainable Opportunities**

Panel:

Mike Nadli
Grand Chief
Deh Cho First Nations

Dennie Lennie
Chairman
Inuvialuit Development Corporation

Richard Glenn
Vice President, Lands
North Slope Regional Corporation

Moderator:

Bill Gallagher, LL.B.

- An update on the Aboriginal Pipeline Groups (APG) agreements
- The status of land claims on the proposed pipeline routes
 - environmental assessment implications
- Aboriginal concerns about the Arctic Gas pipeline and how it will impact the region
 - how do aboriginal communities view its development?
- A matter of trust: fostering long-term, mutually beneficial relationships with industry
- DIAND's role in facilitating the pipeline project
- Potential social impact of the project on Aboriginal communities
- Securing long-term benefits for Aboriginal communities

12:30 **Networking Luncheon for Delegates and Speakers** 

2:00 **Forming Mutually Beneficial Aboriginal Partnerships at ATCO Frontec**

Case Study

Michael Shaw
President
ATCO Frontec

Lillian Brewster
Director, Northern and Aboriginal Relations
ATCO Frontec

From the genesis of the North Early Warning System, to their activities today, ATCO Frontec has maintained a strong presence in the Arctic. Much of this success is due to the joint ventures it has formed with Aboriginal communities. In this session, Lillian Brewster and Michael Shaw will share important insights into partnerships, aboriginal relations, and doing business in the North.

- Assessing the business case for your joint venture: where are the synergies?
- What does it mean to have a true partnership?
- Determining what each partner wants from the project
- Sustainable development: ensuring lasting benefits from your project
- Building your workforce: providing training within Aboriginal and other communities working on the project

2:45 **Networking Refreshment Break** 

3:00 Drilling North of 60: A Test Case

Adrienne Jones
Geologist, C.S. Lord Northern Geoscience Centre
Government of the Northwest Territories

Peter Haverson
Drilling Manager, Petro-Canada

- Overview of NWT petroleum geology
- Update on the Beaufort Sea/Mackenzie Delta exploration plays and targets
- Results of test drilling for gas above the Arctic Circle
- How will results influence the feasibility of a project?
- Special challenges of drilling in the Arctic
 - land access issues
 - working with First Nations
 - locating materials and skilled workers
- Working within the short drilling season

4:00 An Overview of the Jurisdictional Regulatory Environments in Alaska and the Territories

Richard A. Neufeld
Partner, Fraser Milner Casgrain

- What is process for pipeline application: An overview
- Where are the jurisdictional lines drawn?
- Feasibility of streamlining the processes
- Expected duration and cost of the application process
- Differences between national and territorial regulations and how they will impact potential pipeline applications
- How could Alaska Highway route regulations between levels of government be harmonized?
- Tracking developments in regulatory changes on both sides of the border: An update
- An update on drilling regulations in ANWR

4:45 Co-Chair's Recap/Conference Adjourns

Networking Cocktail Reception 

Friday, March 8, 2002

9:00 Co-Chair's Opening Remarks

Rosemary Boulton
Managing Director, Houston Energy Group

9:15 Transporting Gas to the Lower 48: A Pipelines Update

Pipelines Panel

Wayne Sartore, Vice President, Northern Pipeline Development, Enbridge Inc.

John Ellwood
Executive Vice President and Chief Operating Officer, Foothills Pipe Lines Limited

Robert Sluder
Vice President, Operations
Williams Gas Pipeline - West

Jeff Rush
Vice President, Business Development
TransCanada PipeLines Limited

- Current status of pipeline projects in the Arctic
- Business case revisited: how has sub-\$2 gas influenced the potential projects?
- The capacity question: how large will lines be?
- Can the market support two pipelines?
- Midstream's role in arctic gas: potential for infrastructure growth
- What is the status of the ROWs for the pipeline routes
- Pipeline ownership on proposed routes
- Infrastructure challenges for pipeline construction and maintenance
- How government incentives will influence pipeline expediency of route selection and construction?
- New play development and its effect on transportation
- Where will Arctic Gas enter the North American grid?
- What will construction demand be for the pipeline?

10:30 Networking Coffee Break

10:45 Where Should Arctic NGLs Be Processed?

Chicago Perspective

W. Norval Horner
Vice President, Supply
Aux Sable Liquid Products LP

- Where should Mackenzie Delta gas processing take place?
- Analysis of potential volumes of NGLs- Alaskan and Delta
- Impact of NGLs on pipeline hydraulics and tolls
- Chicago prospects for new NGL volumes
- Chicago's infrastructure and markets for Arctic NGLs

Alaska & Alberta Perspectives

Mike Hantzsch
Vice President, Business Development
Williams Energy Canada Inc.

- Results of Arctic Petrochemical Study:
 - scope of work
 - infrastructure options
 - Alaska vs. Alberta
- Opportunities and challenges for both locations
- Products and associated markets — derivative slate, market locations
- Utilization of existing NGL infrastructure
- Feasibility of developing new infrastructure — Alaska and Alberta
- Next steps and the path forward

11:30 What are the LNG and GTL Options? Are They Still Workable?

Roger Marks, Economist, Department of Revenue
State of Alaska

Richard Peterson
President, ANGTL Company

- Possibility of monetizing Arctic Gas through GTL technology

- GTL infrastructure development possibilities in Alaska
- How will alternative forms of Arctic Gas, such as synthetic diesel, impact the continental market?
- Can a GTL project improve the chances of a future gas pipeline project?
- GTL's role in securing national energy sources
- The benefits of a GTL program for the North Slope
- Review of Phase II of the Alaska LNG project
- Possibility of monetizing Arctic Gas through LNG technology
- LNG infrastructure development possibilities in Alaska
- How will alternative forms of Arctic Gas impact the continental market?

12:15 Networking Luncheon for Delegates and Speakers

1:30 What's Next: The Future of Exploration in the Arctic

Benoit Beauchamp, Ph.D.
Research Scientist, Geological Survey of Canada

Ken Bird
Project Leader, Alaska Petroleum Studies Project
United States Geological Survey

The known plays in the Arctic contain vast amounts of natural gas. But beyond the North Slope and Mackenzie Delta, much of the region remains a mystery. In this co-presentation, Benoit Beauchamp and Ken Bird will deliver the latest data that the Canadian and United States governments possess on potential plays in the region.

- Are there any other Canadian reserves that could feed the proposed Mackenzie Valley pipeline?
- Production expansion beyond Prudhoe Bay and the North Slope
- Potential for offshore development of natural gas in the Arctic
- Geographic limitations of exploration in Arctic
- Newest discoveries and tie-in potential to proposed pipelines

2:15 Environmental Challenges to Frontier Gas Exploration, Production and Transportation: What to Expect

Michael Muller, Northern Manager
Inuvialuit Environmental & Geotechnical Inc.

Environmental challenges abound in the North. Getting the information you need to properly navigate the natural and regulatory hurdles in the region is crucial to controlling costs and meeting timelines. Learn from Michael Muller what the essential requirements are for minding Mother Nature, but getting the job done in the Arctic.

- Environmental hotspots in the Arctic
- Effects of pipeline construction and maintenance on water and air quality
- Potential for environmental limitations on pipeline projects
- How could pipeline development affect wildlife in the region?
- Conducting an environmental assessment of a mega-project: depth and duration
- Impact of drilling and construction on permafrost — long range implications

3:00 Networking Refreshment Break

3:15 Constructing the Arctic Mega-Project: Meeting the Challenges of Mobilizing the Workforce and Suppliers

Warren Christian
President and General Manager
Houston Contracting Company

Joel Thompson
Vice President
Merit Contractor Association

Constructing thousands of miles of pipeline will enormously increase pressure on an already strained sector of the industry. If current shortages continue, demand on suppliers and workers could send construction costs skyrocketing and significantly slow the pace of commercializing Arctic Gas. Can the industry rise to the occasion? Warren Christian and Joel Thompson will assess supplier and workforce readiness for constructing an Arctic mega-project.

- Readiness of the construction industry for a pipeline mega-project
- Limitations of working in extreme conditions and what it means for construction costs
- Can the North American workforce handle concurrent construction of two pipeline mega-projects?
- Challenges for materials and infrastructure access

4:15 Co-Chair's Recap/Conference Adjourns

WHO SHOULD ATTEND

Executives in the areas of: Frontier/Northern Development, Exploration, Land, Production, Business Development, Strategic Planning, Corporate Development, Operations, Regulatory Affairs, Gas Transmission, Environmental, Finance, Analysts and Economists from:

- | | |
|------------------------------|-----------------------------------|
| • Natural Gas Producers | • Governmental/Regulatory Bodies |
| • Pipelines | • Pipeline Construction Companies |
| • Aboriginal Groups | • Oil and Gas Service Companies |
| • Energy Marketers | • Lawyers |
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