



American  
Conference  
Institute

The Second Annual

# ARCTIC GAS SYMPOSIUM

***Breaking Ground in the Arctic: Tapping into  
Opportunities for Exploration, Production and Delivery***

***"The conference reconfirmed commitments by the pipeline owners and producers to bring  
Arctic gas to market — somewhat different from what you read in the newspapers."***

*Darrel Ziehr, VP Engineering, Midwest Management, Arctic Gas Symposium 2001*

**HEAR FROM INDUSTRY LEADERS  
AND EXPERTS INCLUDING:**

**BP Alaska — Canada Gas  
Devon Canada Corp  
Enbridge Inc**

**Houston Energy Group  
Deh Cho First Nations**

**Arctic Slope Regional Corporation  
Northern Pipelines Project**

**Arctic Resources Corporation**

**The Harbour Company**

**BMO Nesbitt Burns**

**University of Houston**

**State of Alaska**

**Purvin & Gertz, Inc.**

**Encana, Inc.**

**At this information-packed annual conference  
you will hear the latest on:**

- How continental energy policy and the US Energy Bill impact corporate investment in Arctic Gas projects
- Regional exploration activities
- Negotiating pipeline access agreements, rates and tariffs
- How industry and governments plan to support and finance Arctic Gas projects
- Mobilizing and marshalling resources to build Arctic pipeline mega projects

**With special keynotes from key players including  
*Senator John Torgerson of Alaska*  
*The Honourable Stephen Kakfwi*  
*Premier, Northwest Territories***

*Official Website*

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**Northern Gas Pipelines  
[www.arcticgaspipeline.com](http://www.arcticgaspipeline.com)**



**Monday and Tuesday, November 18 and 19, 2002**

**The Renaissance Houston Hotel, 6 Green Way Plaza East, Houston, Texas**

**To register, please call 1-888-ACI-2480 or fax your registration form to 1-877-927-1563  
or register online at [www.americanconference.com](http://www.americanconference.com)**

## The Arctic holds the promise of abundant energy supplies for the North American market. Are you ready to tap into this opportunity?

Securing energy supply for the US is a major political and economic issue. Until this year, an Arctic Gas pipeline has been more pipedream than reality. In May 2002, the first steps were taken in the construction of a Mackenzie Valley pipeline. Meanwhile major legislative initiatives from Alaska and from both the House and the Senate and at the highest political level have been debated and discussed.

Only at the **American Conference Institute's** Second **Arctic Gas Symposium** will you gain the most up to date industry news on Arctic gas developments — news and insight that can give you a significant competitive advantage. This high-level symposium brings together key decision makers from the political, industrial and stakeholder groups. You will hear panels and presentations on:

- How Arctic Gas impacts North American energy policies and political and economic relationships

- The business challenges and opportunities facing producers, pipeline companies and key stakeholders
- How the mechanics of supply and demand may be impacted by the arrival of Arctic Gas in the energy markets
- Negotiations taking place on pipeline access, rates and tariffs — how will they affect you?
- Managing logistics and construction of the Arctic mega project

This event will give you your best opportunity this year to exchange ideas and business cards with the movers and shakers in the developing Arctic gas industry.

Places will go quickly. Call the **American Conference Institute** hotline today to confirm your seat at **1-888-ACI-2480** or register online at **www.americanconference.com**.

### THIS YEAR'S DISTINGUISHED SPEAKER FACULTY INCLUDES:

#### CONFERENCE CHAIR

**Dave Harbour**

President, The Harbour Company

**Senator John Torgerson**  
State of Alaska

**The Honourable Stephen Kakfwi**  
Premier, Northwest Territories

**Professor Ronald Oligney**  
University of Houston

**Michel Scott**  
VP Frontiers  
Devon Canada Corp.

**John Carruthers**  
Alaska Gas Producers,  
Pipeline Group  
BP Alaska - Canada Gas

**Alan Sharp**  
Project Manager, Encana, Inc.

**Matt Janisch**  
Managing Director  
BMO Nesbitt Burns

**Roland George**  
Principal, Purvin & Gertz, Inc.

**James R. Harrington**  
Chief Executive Officer,  
Houston Energy Group

**Grand Chief Mike Nadli**  
Deh Cho First Nations

**Forrest Heglund**  
Chairman  
Arctic Resources Company

**Richard Glenn**  
VP Lands Development  
Arctic Slope Regional Corp.

**Wayne Sartore**  
VP Northern Pipeline  
Development, Enbridge Inc

**Doug Anguish**  
Project Manager,  
Northern Pipeline Project  
and President  
External Solutions Ltd.

Register at 1-877-927-7936 or in Toronto 416-927-7936 or [www.CanadianInstitute.com](http://www.CanadianInstitute.com)

Monday November 18, 2002

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

9:00 **Opening Remarks from the Chair**

**Dave Harbour**  
President, The Harbour Company

9:15 **Open For Business: Commercializing  
the Arctic Gas Opportunity**

**Senator John Torgerson**  
State of Alaska

**The Honourable Stephen Kakfwi**  
Premier, Northwest Territories

*The first Arctic gas pipeline constructed will have major repercussions for gas field E&P and economic growth in both the US and Canada. Senator John Torgerson and other key players from Alaska and Canada will provide an update on the issues and dynamics behind efforts being made to take advantage of this tremendous opportunity.*

- How are different regions preparing for development?
- The initiatives and dynamics behind the different Federal and State/Territorial/Provincial entities
- Overview of progress made between producers, Aboriginal peoples and the governments over the last year
- What will drive the groups forward to make a deal?

10:15 **Networking Coffee Break** ☕

10:30 **The Role of Arctic Gas in a  
Continental Energy Policy**

*Calls for direction on a continental energy policy grow. However, uncertainty remains on vital economic and political questions over the future supply of gas to the US. This session will involve key decision makers in the US and Canadian departments of energy and natural resources, who will address the following:*

- The US and Canadian Federal Government position on Arctic gas development
- The scope and components of the Energy Bill
- Impact on US/Canada relations
- Building consensus on future US demand of 30 tcf annually and assessing supply options
- Plans for NPRA production
- How have the events of 9/11 and the Enron debacle altered North American energy policy?
- Ensuring free trade and competition in the energy markets: what of NAFTA?
- Development of a continental energy policy between the US, Canada and Mexico

11:30 **The Route Proposals and  
Developments: A Status Report**

**Professor Ronald Oligney, Department of  
Chemical Engineering, University of Houston**

- Clarifying producers' positions on pipeline proposals
- What developments and progress have been made?
- What is the status of the two main proposals?
- What is the status of the Over-the-Top route?
- Breakdown and comparison of producers' feasibility studies:
  - cost analysis
  - financing potential
  - financing incentives
- Assessing producer support for the projects
- The latest update on developments, regulatory approvals and permits for:
  - Alaska Highway
  - Mackenzie Delta

12:15 **Networking Luncheon for  
Delegates and Speakers** 

1:30 **An Update on Arctic Region  
Exploration Activity and Access Issues**

**Michel Scott, VP Frontiers, Devon Canada Corp.**

**John Carruthers, Alaska Gas Producers'  
Pipeline Group, BP Alaska — Canada Gas**

**Alan Sharp, Project Manager, Encana, Inc.**

*While the pipeline debate rages, producers continue to spend millions annually on exploration activities in the Arctic. Get updates from key players in the Mackenzie and Alaska regions on recent finds and activities. You will also hear about steps being taken to ensure sufficient pipeline capacity and guarantees of pipeline access for future discoveries.*

- Results of recent producer activity in the Alaska and Mackenzie Delta regions
- Impact of recent lease acquisition by producers
- Assessing supply impact of undiscovered reserve potential in Arctic Alaska
  - Cook Inlet
  - Arctic Islands
- Determining capacity requirements to ship existing 35 tcf finds and potential new discoveries
- Securing access on a timely basis and at reasonable rates
- Negotiating access rates, conditions and terms of service
- Status of 'hold backs' and 'pre-subscriptions'
- Relationship between exploration, access and regional economic development
- Ensuring pipeline access is factored into pipeline build agreements
- Relationship between expected future demand for gas and size of reserves to be shipped with required pipeline capacity
- Impact on spot market as new discoveries increase supply

2:30 **Networking Refreshment Break**

2:45

## Supply and Demand Pricing for Arctic Gas

**Matt Janisch**

Managing Director, BMO Nesbitt Burns

**Roland George, Principal, Purvin & Gertz, Inc**

- Production and delivery costs comparison at AECO C for Prudhoe Bay and Mackenzie Delta gas
  - in Alaska Highway pipeline
  - in Mackenzie Valley pipeline
- How does Arctic Gas stack up against other unconventional sources of supply?
  - LNG
  - Coalbed methane
  - Mexico
  - other frontiers
- Role of the Alberta hub in supply and demand
- Wholesale and retail price elasticity of supply and demand for Arctic gas
- Assessing impact and implications of pipeline subsidies on:
  - US industry
  - Alaskan economy
  - Canadian economy
  - pricing
- Remaining challenges relating to Arctic Gas development
- The financial market implications

3:45

## Building Financial and Industrial Support for the Arctic Mega Project

**James R. Harrington**

Chief Executive Officer, Houston Energy Group

- The competitiveness of Arctic Gas in the North American gas market
- The impact of Arctic Gas on the North American supply/demand and infrastructure equation
- Public/private options for managing the risks and rewards of such a large project
- Financing the Arctic Mega Project: debt, equity, loan guarantees, tax credits
- Estimating return on capital to justify investment
- The impact of recent corporate restructuring and creation of oil and gas supercompanies: could restructuring push smaller companies out of the picture?
- Which of the stakeholders and proponents are financially capable of investing in these projects?
- The impact of construction of additional gas-fired power stations on investment capital
- How will companies raise debt finance following the impact of Enron and attempts to reduce balance sheet liabilities?

4:30

## Building the Northern "Over-the-Top" Route

**Forrest Hogle**

Chairman, Arctic Resources Company

- What is the status of the Over-the-Top route?
- Exploring financing and ownership options for a northern route
- Assessing stakeholder support for the proposed northern route
- Exploring the economics and impact on a northern Arctic Gas pipeline of plans to build LNG terminals in Alaska
- Recent developments on the LNG and GTL front in Prudhoe Bay and likely impact on pipeline development
- Logistical challenges facing submarine pipeline deployment
- What other transportation options exist for Arctic gas products originating from Alaska?

5:15

## Chair's Recap/Conference Adjourns

5:30

## Networking Cocktail Reception



**Tuesday November 19, 2002**

9:00

## Opening Remarks from the Chair

9:15

## Aboriginal Peoples Perspectives, Interests and Relationships

**Grand Chief Mike Nadli, Deh Cho First Nations**

- Current status of Aboriginal support of pipeline projects and proposals
- What material changes can be expected before a deal is made?
- What security can Aboriginal groups offer producers and developers to ensure certainty during negotiations?
- Overview of the different proposed Aboriginal ownership models — benefits to groups and benefits to producers
- What will motivate Aboriginal groups to move forward and what solutions are proposed to overcome ongoing concerns and objections?

10:15

## Networking Coffee Break

10:45

## Environmental Challenges and Goals for Arctic Gas Construction Projects

**Richard Glenn, VP Lands Development Arctic Slope Regional Corp.**

- Results from environmental assessments of the pipeline mega projects
- How efficient use of technology can mitigate environmental risks
- Update on ANWR and environment provisions in the US Energy Bill
- Planning for long-term implications of global warming on permafrost and impact on Arctic pipeline safety and security
- Minimizing and managing social and environmental impact on communities by predicting possible consequences of pipelines



**11:45** **Overcoming Technical Challenges of Operating and Maintaining an Arctic Gas Pipeline: Case Study of an Existing Arctic Pipeline**

**Wayne Sartore**  
VP Northern Pipeline Development, Enbridge Inc.

- What are the main challenges and differences between operating and maintaining an Arctic or sub-zero pipeline and non-sub-zero pipelines?
- Analysing technical feasibility studies of proposed pipeline routes
- Adequately preparing to build by identifying and overcoming potential and actual technical challenges
  - high pressure lines in sub-zero temperatures
  - compression
  - pipeline conditioning
  - pipeline chilling
  - localized ambient temperature differentials
- Deploying a SCADA communications infrastructure to aid operations and maintenance
- Overcoming the challenges of submarine construction and maintenance in sub-zero Arctic conditions
- Managing emergency response, security, environmental health and safety in the Arctic

**12:45** **Networking Luncheon for Delegates and Speakers** 

**2:00** **Logistics and Construction: Marshalling and Mobilizing Resources to Build An Arctic Pipeline Mega Project**

**Doug Anguish, Project Manager**  
Northern Pipelines Project

*Once a route decision is made the rush will be on to mobilize resources. Yet securing resources to build may open new challenges. In this session you will hear how resource management and planning will be pivotal to successful pipeline deployment.*

- The status of North American steel supply for the project
- Procuring resources, labour, materials, and transport to the region
- Ensuring resources are allocated immediately to prevent diversion to other projects
- Confronting and overcoming technical challenges: what are the relative demands of each project?
- Construction expertise and practicalities for Arctic conditions
- Demographics and skill requirements of the labor force
- Identifying and dealing with union and non-union labor issues
- The impact of a shrinking pipeline contractor sector
- How are pipeline builders preparing for the build?

**3:00** **Chair's Closing Remarks and Conference Concludes**

**WHO WILL BENEFIT FROM ATTENDING?**

Executives in the areas of:

- Frontier/Northern Development
- Exploration
- Land
- Production
- Business Development
- Strategic Planning
- Corporate Development
- Operations
- Regulatory Affairs
- Gas Transmission
- Environmental
- Finance

From:

- Natural Gas Producers
- Pipelines
- Aboriginal Groups
- Energy Marketers
- Gas Distribution Companies
- Gas Storage Companies
- Drilling Companies
- Governmental/Regulatory Bodies
- Pipeline Construction Companies
- Oil and Gas Service Companies

Plus,

- Analysts and Economists
- Lawyers
- Financiers
- Consultants to the Industry

**WHAT DELEGATES SAID ABOUT PAST ARCTIC GAS SYMPOSIUMS:**

***"Great speakers, great timing, excellent views, learned lots."***

Dorothy Sam, Manager, Economic Support, DIAND

***"Very enlightening. Helped me get a broader perspective on Arctic gas opportunities."***

Richard Yellowlees, Sales Representative  
TransCanada PipeLines

***"Good mix of speakers and topics. Together they offered a good, broad perspective. Well done!"***

Bob Basaraba, President, Basaraba Consulting

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# The Second Annual ARCTIC GAS SYMPOSIUM

Monday and Tuesday, November 18 and 19, 2002  
The Renaissance Houston Hotel, 6 Greenway Plaza East, Houston, Texas



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