

May 7 – 8, 2014
Four Seasons Hotel, Vancouver, BC

9th Annual

BC POWER SUMMIT

Distinguished Faculty Includes
Speakers From:

BC Hydro
BC Sustainable Energy Association
Canadian Energy Efficiency Alliance
Capital Power Corporation
Commercial Energy Consumers Association
FortisBC
Koho Power Corporation
Headwater Capital

and more...



Keynote Speakers:



Doug Little
Vice-President of Energy Planning
and Economic Development
BC Hydro
Member of the Board of Directors
of the Energy Council of Canada



Dave Porter
Chief Executive
British Columbia First Nations Energy
and Mining Council



Keith Sashaw
President and Chief Executive Officer
Association of Consulting Engineering
Companies of BC



Frank Wszelaki
President and Chief Executive Officer
Columbia Power



Dr. Paul Kariya
Executive Director
Clean Energy BC

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Doug Stout

Vice President, Energy Solutions
and External Relations
FORTIS BC



Kelly S. Lail

Vice President
Capital Power Corporation



Merran Smith

Director of Clean Energy Canada
Tides Canada



Conference Chair

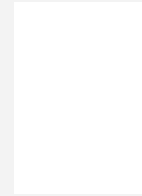
Paul Wilson

Partner
Fasken Martineau



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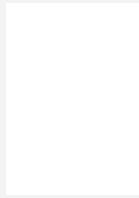
Richard Stout

Executive Director
Association of Major
Power Customers of BC



Peter Asmus

Principal Research Analyst
Navigant Research



Joe Mazza

Director, Resource Development
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Lyle Viereck

Director, Aboriginal Negotiations
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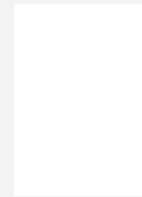
David Craig

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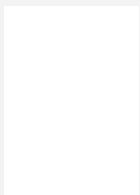
Tim Newton

Member
Industrial Electricity Policy
Review Task Force



Mark Warren

Director, Customer Service
FortisBC



Pieter van Gils

Principal, Headwater Capital
Vice-Chair of the Canadian
Energy Efficiency Alliance



Dave Porter

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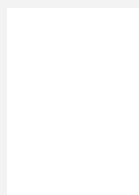
Frank Wszelaki

President and
Chief Executive Officer
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Gwen Johansson

Mayor, District of Hudson's Hope



Nigel Protter

Executive Director and
Chief Executive Officer
BC Sustainable Energy
Association (BCSEA)



Dr. Paul Kariya

Executive Director
Clean Energy BC



Keith Sashaw

President and
Chief Executive Officer
Association of Consulting
Engineering Companies of BC

9th Annual BC POWER SUMMIT

Dear Colleagues:

B.C.'s rapidly evolving energy landscape ensures it is and will remain a central point of focus for government, companies and customers alike. In the past year, the provincial government has shared its goals of accelerating the development of B.C.'s natural gas resources through the announcement of its LNG and other natural gas strategies. At the same time, the new provincial requirements for BC Hydro's electricity self-sustainability ensure that electricity and power generation issues remain of interest to British Columbians.

Since the last B.C. Power Summit in 2013, natural gas has increasingly been considered an option for power generation and is fast becoming a fuel of choice for the transportation industry. Meeting B.C.'s future needs is a concrete requirement and doing so sustainably and economically will not only be a key challenge but also an opportunity.

Integrated resource planning for cost-effective expansion provides certainty for the future. Holding a place in B.C.'s energy mix, energy efficiency and conservation remains one of the most promising opportunities on the energy landscape as a key alternative to supply-side resources. We must also look at development across B.C., focusing on development of opportunities and sources of capital for First Nations participation in the energy sector.

The speakers at the B.C. Power Summit have all played a leading role in these issues and are well-positioned to offer valuable insight into each of them. Conference attendees will have opportunities to pose questions and engage in informal discussions during the event. All attendees will be provided with conference materials prepared by the speakers.

This conference is a unique opportunity to gain information valuable to your business on an element of strategic importance not only to the provincial economy but to British Columbians' quality of life.

Executives and managers of energy utilities, significant energy-consumers, IPPs, First Nations and power marketers, will all find this Insight's 9th B.C. Power Summit invaluable, as will lawyers, consultants, government employees and regulators.

We invite you all to attend!

Co-Chairs of the Conference



A handwritten signature in black ink that reads "Doug Stout".

Doug Stout

Vice President, Energy Solutions and External Relations
FortisBC



A handwritten signature in black ink that reads "Paul Wilson".

Paul Wilson

Partner
Fasken Martineau, LLP

CONFERENCE HIGHLIGHTS:

Important and thought-provoking questions will be addressed in this comprehensive two day event that is designed to provide an up-to-date insight into the factors that drive the BC and North American electricity markets. Network with your peers and hear about:

- Power supply outlook for LNG and other industrial projects - the real demand and how to meet it
- What are the options for gas fired generation beyond LNG projects
- The way forward for LNG and tariff policy
- The future of electricity rates - reasonable rate options for all customers
- The importance of independent and transparent regulation
- What does the future hold for the IPP industry in BC?
- Costs of accommodating intermittent renewables
- Micro grids - what are the implications for consumers and for the utilities?
- Cumulative impacts of major power projects
- Building positive partnerships with communities, First Nations and stakeholders
- Providing electricity to remote communities – solutions to explore
- What does the future hold for residential and commercial consumers?
- Demand-side management (DSM) programs – gas and electric utilities
- 2020 vision for a more energy efficient future

MAY 7, 2014

8:00 | Registration and Continental Breakfast

8:55 | **Welcoming Remarks from Insight Information**

Dr. Victor Pogostin

Insight Information

9:00 | **Opening Remarks from Co-Chairs**

Doug Stout

Vice President, Energy Solutions and External Relations

FortisBC

Paul Wilson

Partner

Fasken Martineau, LLP

9:15 | **The Power Supply Outlook for LNG and Other Large Industrial Projects - The real Demand and How to Meet It**

Doug Little

Vice-President of Energy Planning and Economic Development

BC Hydro

Member of the Board of Directors of the Energy Council of Canada

- Large industrial load growth in BC: LNG, upstream natural gas production, mining, forestry
- BC Hydro's forecast load-resource balance: base case and scenarios
- Plans to meet the forecast load growth

Nigel Protter

Executive Director and Chief Executive Officer

BC Sustainable Energy Association (BCSEA)

- BC's LNG export plans represent a 180° energy policy shift for BC, from one centered on climate change leadership and renewables self-sufficiency to one focused on very large-scale hydrocarbon extraction and exports powered by massive new increments of fossil-fuelled power generation
- Few in BC realize the incredible scale of new generation capacity that will be required to power these LNG exports, and this new capacity will significantly increase BC's own CO2 and other combustion emissions
- Even fewer realize the enormous financial risk involved in the plan for BC ratepayers and taxpayers, since it is far from certain that the price we need to get for our gas in Asia will be at a price foreign customers will be willing to pay

Keith Sashaw

President and Chief Executive Officer

Association of Consulting Engineering Companies of BC

- Major projects require access to power
 - according to the Major Project Inventory maintained by the province of BC, the total capital cost of major projects (defined as projects valued at over \$20 million in the Lower Mainland and over \$15 million elsewhere in BC) hit a record high at \$299.4 billion in the second quarter of 2013 on a surge in proposed LNG projects. These major projects demand access to stable and dependable power in order to operate efficiently and to continue to attract investors in future development projects

- LNG power supply
 - while it can be assumed the massive energy required for LNG plants will be supplied by gas-powered plants, there will be demand for power from other sources for ancillary users of power
- BC requires a diversity of energy production
 - it is in the best interest for the province and BC Hydro that there continues to be a wide diversity of energy production. In BC we have developed an IPP industry consisting of developers, First Nations, constructors, and consulting engineers to develop and build the renewable power sources
- BC has a reputation for expertise in engineering and can contribute to creating a centre of excellence for engineering services

10:45 | **Networking Coffee Break**

11:00 | **The Future Role of Natural Gas Fired Generation in BC and Beyond**

Joe Mazza

Director, Resource Development

FortisBC Utilities

- Burrard decision; what are the options for gas fired generation beyond LNG projects
- *Clean Energy Act* implications/amendments

Kelly S. Lail

Vice President

Capital Power Corporation

- Growth of natural gas fired in power supply
- Relative financial and risk characteristics
- Operating characteristics and optimization opportunities
- Relative cost

12:00 | **Networking Luncheon**

1:00 - 1:30 | **Keynote Lunch Speaker TBA**

1:30 | **Future of Electricity Rates**

Tim Newton

Member

Industrial Electricity Policy Review Task Force

Findings by the Task Force:

- Additional principles for setting rate policies
- Clarity on greenhouse gas policies and industrial rate setting
- Encourage all cost effective energy conservation
- Add flexibility to industrial rates for customers that can reduce overall costs
- Review policies on paying for new transmission
- Involve stakeholders and ratepayers in making decisions that affect them

Mark Warren

Director, Customer Service

FortisBC

Implications for industry and for residential consumers:

- Advanced metering provides detailed electricity consumption information to customers on a real-time basis. How will this affect electricity consumption?
- Rate structures (time-based, consumption-based)
- Payment options (flexible due dates, pre-pay)
- Automated response (appliances, thermostats)
- What will be the impact on the consumption of other commodities (gas, water)?

Richard Stout

Executive Director

Association of Major Power Customers of BC

- The critical importance of independent and transparent regulation of BC Hydro
- Shareholder accountability and risk/return relationships
- Restoration of an appropriate culture and mandate for BC Hydro
- Linkage between rates, planning, reliability and policy objectives
- The way forward for LNG and tariff policy
- Reasonable rate options for all customers

3:00 | Networking Refreshment Break**3:15 | What Does the Future Hold for the IPP Industry in BC****Dr. Paul Kariya**

Executive Director

Clean Energy BC

- It is only a matter of time before the next power call – we must prepare
- Clean energy electricity is a cost effective product that will help ratepayers over the long term
- CEBC is working with First Nations and the government to give life to Chapter 8 – the IRP's clean Energy chapter

Merran Smith

Director of Clean Energy Canada

Tides Canada

- Renewables are a critical component of BC's commitment to 'Cleanest LNG in the World'
- Clean Energy Canada modelling shows that renewable/electric driven LNG would create 40 percent more jobs and 33 percent less carbon pollution in the region
- Recent polling shows broad citizen support for this approach
- IPPs can be part of creating a lasting legacy from LNG

Richard Stout

Executive Director

Association of Major Power Customers of BC

- Private versus public sector generation
- Costs of accommodating intermittent renewables
- Integrated planning
- Rates and pricing - the missing connection

4:45 | Day One Overview by Co-chairs**5:00 | Conference Adjourns for the Day****8:15 | Continental Breakfast****9:00 | Opening Remarks by Co-Chairs****9:15 | Role of Micro Grids - What are the Implications for Consumers and for the Utilities?****Peter Asmus**

Principal Research Analyst

Navigant Research

Why North America Is the World's Best Market for Microgrids:

This presentation will focus on recent research findings validating the argument that North America is the best current market for microgrids worldwide. This talk will describe the market drivers behind microgrids for both utilities and third-party developers, and will profile 5 leading microgrid players:

BC Hydro; San Diego Gas & Electric; ABB, GE and Powerstream (Ontario municipal utility)

The presentation will also highlight recently updated market forecasts for the global microgrid market as a whole, but with a special emphasis on North America, the top 5 U.S. states, and Canada, which ranks among the top 10 non-US markets in the world.

10:00 | Networking Coffee Break**10:15 | Cumulative Impacts of Major Power Projects****Dave Porter**

Chief Executive

British Columbia First Nations Energy and Mining Council

Gwen Johansson

Mayor, District of Hudson's Hope

- What cumulative impact looks like on the ground
- Effect on community
- Cumulative impact under Canadian Environmental Assessment 2012

Lyle Viereck

Director, Aboriginal Negotiations and Strategic Files

BC Hydro

- Understanding the relationship between clean power development and First Nations
- How to address and mitigate the cumulative impact of energy development
- Benefit and opportunities for First Nations

Frank Wszelaki

President and Chief Executive Officer

Columbia Power

- Impacts of Columbia Power's power projects regionally and provincially
- Building positive partnerships with communities, First Nations and stakeholders
- Update on the Waneta Expansion Project - the largest hydropower project currently under construction in the province

Paul Wilson

Partner
Fasken Martineau, LLP

- The challenges of assessing an uncertain future – BCs LNG boom?
- Assessing the cumulative impacts of natural gas and LNG projects
- When are other projects “sufficiently certain” to proceed?

12:15 | Networking Lunch

1:15 | Providing Electricity to Remote Communities

Nick Hawley

Director
Koho Power Corporation

- Defining remote communities: where are they, how large are they, what are their current sources of energy?
- Previous attempts to electrify remote communities
 - government funding for community energy planning
 - clean energy initiatives
- BC Hydro *Remote Community Electrification Program*
- Work in other provinces
 - Manitoba Hydro/AANDC collaboration
 - Newfoundland and Labrador
- Options for providing reliable electricity to remote communities in BC
 - Grid extension
 - Renewable power, diesel power, hybrid
- Barriers to success
 - regulatory issues
 - AANDC bureaucracy
 - difficulties faced by utilities
 - approach to design of renewable energy for remote areas (micro sizing)
- Solutions to explore

Pieter van Gils

Principal
Headwater Capital

- Atlin, BC: remote to us, central to the Taku River Tlingit
- Project concept: replace 3300 litres of diesel per day with small hydro
- From concept to design, engineering and permitting
- Financing
- Five years after the commercial operation date

2:15 | Networking Refreshment Break

2:30 | What Does the Future Hold for Residential and Commercial Consumers

David Craig

Executive Director
Commercial Energy Consumers (CEC) Association

- Demographic trend issues
- Technological development issues
- Environmental and economic issues
- BC Government policy issues & choices
- Business and personal impacts

Andrew Pape-Salmon

Senior Specialist - Energy
RDH Building Engineering Ltd.
Vice-Chair of the Canadian Energy Efficiency Alliance

- Managing electricity bills in the context of rate increases
- Adding an “energy lens” to building asset management and renewal processes
- Case study of a “deep energy retrofit” of a 13storey multi-unit residential building
- Demand-side management (DSM) programs – gas and electric utilities
- Municipal policies supporting house and building retrofits
- 2020 vision for a more energy efficient future for buildings

Jason Wolfe

Director, Market Development
FortisBC

- Changing housing stock and its effect on energy usage
- Impact of building code changes and energy efficiency requirement and energy use in the home
- How low natural gas prices are affecting the energy choice for homeowners
- Renewable natural gas as a carbon free alternative to electric heat
- CHP for the home and small business

4:15 | Closing Remarks by Co-Chairs

4:30 | Conference Ends

WHO SHOULD ATTEND:

The program will have most direct appeal to:

- Executives and Managers from:
 - Industrial, Commercial and Institutional Users of Electricity
 - Electric Utilities
 - Power Aggregators, Marketers and Brokers
 - Electrical Equipment Manufacturers
 - Independent Power Generators and Service Companies

- Energy Lawyers, Advisors and Consultants
- Investors and Financial Officers
- Regulators and Officials from Federal, Provincial and Local Government Bodies
- Experts, Officials and Representatives of Interest Groups in Environment, Resources and Economic Development

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- Early Bird Price (Register and pay by March 28, 2014) \$1,895.00 + GST (\$94.75) = \$1,989.75**
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If yes, please indicate: _____

Special Needs: Do you have any special needs that require accommodation? No Yes

If yes, please indicate: _____

VENUE AND HOTEL RESERVATIONS

The TELUS Convention Centre is conveniently located at 120-9th Avenue S.E., Calgary, Alberta. Tel. 403-261-8500. For overnight accommodation please call the Marriott Hotel at 403-266-7331 and ask for the **Insight Information** corporate rate, or online at www.calgarymarriott.com using booking code IEY (subject to availability).

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