



14-16 OCT 2010
CALGARY, CANADA

Energy and the Environment: Conventional and Unconventional Solutions



CONFERENCE OVERVIEW

Energy is a key driver of economic growth, something the world is desperately looking for in the current crisis. At the same time, traditional energy supply is reaching its limits. Many energy sources have to be developed to meet the 21st century environmental, social and economic challenges.

How can unconventional hydrocarbons (oil sands, shale gas and others) and carbon sequestration help bridge the gap between conventional oil, gas, coal and nuclear power and the most promising renewable energy sources – biomass, hydro, wind, geothermal, and solar? Furthermore, how can market reforms promote more energy efficiency?

This conference will bring together key players in the North American energy sector to address these questions and many others in plenary and concurrent sessions.

Those interested in organizing sessions should propose a topic and possible speakers to Pierre-Olivier Pineau, Concurrent Session Chair (p) +1 514-340-6922, (e) pierre-olivier.pineau@hec.ca

This conference will also provide networking opportunities through workshops, public outreach and student recruitment.

HOSTED BY:



WITH SUPPORT FROM:



TOPICS TO BE ADDRESSED INCLUDE:

Conventional Oil and Gas Issues

- Reserves and access to reserves
- Production and drilling activity
- Fiscal issues: incentive taxation and royalty regimes
- Enhanced recovery with CO₂ injection
- Estimating and forecasting project costs

Unconventional Oil and Gas Issues

- Reserves, resources and possible recovery
- Oil sands production costs
- Heavy oil prospects
- Coalbed methane and shale gas production
- Environmental footprint

Infrastructure Investments

- New pipelines
- LNG terminals, import/export
- Refining and moving 21st century liquid fuels
- Financing after the credit crisis

Carbon Capture and Sequestration

- Experiences to date
- Links with enhanced oil & gas recovery
- Potential to limit GHG
- Cost and the role of subsidies in CCS

Electricity Generation

- Supply adequacy
- New nuclear developments
- State/provincial regulation and economic distortions
- Ownership and cost of hydropower

Electricity Networks

- Market integration and reforms
- Transmission upgrades and pricing
- Distributed generation
- Smart grids and smart metering innovations

Energy Efficiency

- Measurement and verification
- Link to energy pricing
- Information and other market failures

Climate Change

- GHG emission reduction targets and costs
- Impacts of a cap-and-trade system or a carbon tax
- Developments in carbon-mitigation technologies
- International agreements post-Kyoto
- Cost effectiveness: reduction, sequestration or adaptation

Biofuels

- Regulatory incentives
- Life-cycle energy and economic assessments
- Linkages and competition with the food chain

Renewables in Electricity

- Renewable Portfolio Standards and regulatory approaches
- Wind development: growth and challenges
- Hydropower contribution
- Solar and geothermal technology updates

Energy and Transportation

- Transportation policy and efficiency
- Impact of the automobile crisis on energy demand
- Fuel efficiency standards

Geopolitics

- North American energy inter-dependence
- The future of OPEC
- Natural gas politics
- Persian Gulf security
- Renewable energy and energy security

Energy Poverty

- Access to modern energy services
- Energy prospects for developing countries



CALL FOR PAPERS

We are pleased to announce the Call for Papers for the 29th USAEE/IAEE North American Conference to be held October 14-16, 2010 at the Hyatt Regency Calgary hotel, in Calgary, Alberta, Canada. The Deadline for receipt of abstracts is May 21, 2010.

Paper abstracts, giving a concise overview of the topic to be covered and the method of analysis, should be **one to two pages**. Abstracts should include the following brief sections: (1) overview, (2) methods, (3) results, (4) conclusions, and (5) references.

Please visit <http://www.usaee.org/usaee2010/> to download a sample abstract template. NOTE: All abstracts must conform to the format structure outlined in sample abstract template. At least one author of an accepted paper must pay the registration fees and attend the conference to present the paper. The corresponding author submitting the abstract must provide complete contact details – mailing address, phone, fax, e-mail, etc. Authors will be notified by July 9, 2010 of their paper status.



Authors whose abstracts are accepted will have until September 3, 2010, to submit their full papers for publication in the conference proceedings. While multiple submissions by individuals or groups of authors are welcome, the abstract selection process will seek to ensure as broad participation as possible: each speaker is to present only one paper in the conference.

No author should submit more than one abstract as its single author. If multiple submissions are accepted, then a different co-author will be required to pay the reduced registration fee and present each paper. Otherwise, authors will be contacted and asked to drop one or more paper(s) for presentation.

Abstracts **must be submitted online** to <http://usaee.org/USAEE2010/submissions.aspx> Abstracts submitted by email will not be processed. Please use the online abstract submission form.



STUDENTS

Students may submit an abstract for the concurrent sessions. The deadline for abstracts is May 21, 2010. Also, you may submit a paper for consideration in the USAEE Student Paper Award Competition (cash prizes plus waiver of conference registration fees). The paper submission has different requirements and a different deadline.

The deadline for submitting a paper for the Student Paper Awards is July 8, 2010. Visit <http://www.usaee.org/USAEE2010/paperawards.html> for full details. Students may also inquire about our scholarships for conference attendance. Visit <http://www.usaee.org/USAEE2010/students.html> for full details.



TRAVEL DOCUMENTS

All international delegates to the 29th USAEE/IAEE North American Conference are urged to contact their respective consulate, embassy or travel agent regarding the necessity of obtaining a visa for entry into Canada. If you need a letter of invitation to attend the conference, contact USAEE with an email request to usaee@usaee.org.

The Conference strongly suggests that you allow plenty of time for processing these documents.

Note: U.S. citizens attending the 29th USAEE/IAEE North American Conference will need to present a passport upon entry to Canada.