



Detailed program — Monday, September 13, 2010

[Print this page](#)

Day 1 Challenge | ACCESSIBILITY

MEETING ENERGY DEMAND: A GLOBAL CHALLENGE REQUIRES GLOBAL SOLUTIONS

The first day will focus on the need to manage the growing energy demand of the Planet. It is becoming increasingly obvious that the growth in energy consumption witnessed in recent years around the world cannot simply be extrapolated into the future. Moreover, nearly two billion people today have no access to adequate supplies of energy for their basic needs: this situation can no longer be ignored. The demographic and economic growth in the emerging economies will require most of the additional capacity needed for the global energy system. Responding adequately to that growing demand will pose major challenges. The recent slowdown of the global world economy may bring temporary relief, but the challenges are still imminent.

EXHIBITION SCHEDULE	ACTIVITIES SCHEDULE	
	08:30 - 08:40	INTRODUCTION Plenary
	08:40 - 09:00	PRESENTATION OF THE DAILY CHALLENGE Plenary
		Champion: Yergin, Daniel , Chairman, IHS Cambridge Energy Research Associates (IHS CERA), United States
	09:00 - 10:30	ROUND TABLE Meeting Energy Demand: A Global Challenge Requires Global Solutions -
		As energy demand grows around the world, we need to develop new strategies to ensure a sufficient supply for all. Several global demographic and economic trends need to be properly addressed to provide energy to the two billion people who still have no adequate access to energy and to ensure that sufficient resources, economic and technical, are devoted to the fast growing emerging economies who will require most of the additional capacity. This situation represents significant challenges but it also represents a chance to sustain development and the economic opportunity that comes with it.
10:00 Exhibition Opens		Chair: Saghir, Jamal , Director, Africa Sustainable Development Department, The World Bank
<i>Exclusive to Congress delegates</i>		Participants: Contreras Astiazarán, Benjamin , Undersecretary of Electricity, Ministry of Energy, Government of Mexico, Mexico Dehen, Wolfgang , Chief Executive Officer, Energy Sector, Siemens AG, Germany Guilbaud, Jean-Jacques , Secretary-General and Member of the Executive Committee, Total, France Turley, James S. , Chairman and Chief Executive Officer, Ernst & Young, United States Teyssen, Johannes , Chairman, E.ON AG, Germany
	09:00 - 12:00	RETScreen SEMINAR -
		Mandatory Registration
		Participants: Meloche, Nathalie , Project Manager, RETScreen International Canada
	10:30 - 11:00	COFFEE BREAK & EXHIBITION VISIT -
	11:00 - 11:30	KEYNOTE SPEAKER Plenary
		Keynote Speakers: Al-Falih, Khalid A. , President and Chief Executive Officer, Saudi Arabian Oil Company (Saudi Aramco), Saudi Arabia
	11:30 - 12:00	KEYNOTE SPEAKER Plenary
		Keynote Speakers: Voser, Peter , Chief Executive Officer, Royal Dutch Shell plc, Netherlands
	12:00 - 13:15	LUNCH BREAK & EXHIBITION VISIT -
	13:15 - 14:45	ISSUE SESSIONS -
		Issue Session 1.6: Closer integration for infrastructure adequacy and efficiency
		The energy needs of a country or a region require a broad range of products and services. Ideally, such a complex energy

system must operate as a single entity, where weaknesses and strengths are in balance. This is not always the case, as different components sometimes seem to be operating on their own, focusing on short-term goals and failing to coordinate their development with other parts of the system. How can closer compatibility between all the elements that make up an energy system be achieved through integration and harmonisation?

Chair:

Bryden, Alistair, Partner Advisory Practice,
PricewaterhouseCoopers LLP, Canada

Participants:

Gonzales, Rick, Chief Operating Officer, New York
Independent System Operator, United States

Gutierrez Pemberty, Javier, Chief Executive Officer,
Ecopetrol, Colombia

Manzoor, Davood Dr., Deputy Minister, Ministry of Energy,
Islamic Republic of Iran

Meslier, François, Secretary General, International Council on
Large Electric Systems (CIGRE)

Issue Session 1.4: Geopolitics, energy markets and trade

From tightly regulated national energy markets to liberalised, largely unregulated international marketplaces, over the years trade in energy has been conducted under a very broad regulatory umbrella. What are the best ways of regulating local monopolies, setting energy prices and tariffs for transport and distribution? How do geopolitics affect energy trade? How can these and other interdependent factors be managed globally?

Chair:

Naqi, H. E. Abbas Ali, Secretary-General, Organization of
Arab Petroleum Exporting Countries (OAPEC)

Participants:

Kulibayev, Timur, President, KazEnergy, Kazakhstan

Martínez Mosquera, Marcelo G., Director, Tecpetrol and
Teggas Argentina

Traykov, Traycho, Minister of Economy, Energy and Tourism,
Government of Bulgaria, Bulgaria

Vilgorac, Sead, Chief, Energy Industry Section, Sustainable
Energy Division, United Nations Economic Commission for
Europe (UNECE)

Hong, David S., President and Senior Research Fellow,
Taiwan Institute of Economic Research, Taiwan - China

Issue Session 1.3: Energy for megacities

As the world's population expands, more and more people are living in Mega-Cities with populations numbering over 10 million. These large urban communities, both old and new, urgently need investment in clean and efficient energy supply infrastructure. They also have specific requirements for the secure and reliable delivery of energy, including energy for the transport systems.

Chair:

Vargas Lleras, Jose Antonio, Chair, Colombian Member
Committee, World Energy Council, Colombia

Participants:

Chavez, Martin, Executive Director, ICLEI - Local
Governments for Sustainability États-Unis

Diggikar, Anil Udhavrao, Additional Municipal Commissioner
of Mumbai, Mumbai City, India

Obafemi Hamzat, Kadri, Honourable Commissioner, Ministry
of Science & Technology, Lagos State, Nigeria

Razdan, Anil, Former Power Secretary, Government of India,
India

Singh, Jas, Senior Energy Efficiency Specialist, Energy
Sector Management Assistance Program (ESMAP), The World
Bank, Energy, Transport and Water Department

Issue Session 1.1 Facing demand surges in developing countries

Developing countries will need more and more energy to fuel their economic and social transformation. The discussion at this session will focus on demand growth trends and the particular challenges posed by a few representative countries. The objective is to share experiences, and debate challenges and solutions.

Chair:

Pittman, Bobby, Vice-President, Infrastructure, Private Sector
and Regional Integration, African Development Bank

Participants:

Benito, Norberto, General Manager, Pluspetrol, Argentina

Powell, Robert, Editor/Economist, Economist Intelligence Unit,
United States

Singh, Rupa Devi, Managing Director and Chief Executive
Officer, Power Exchange India Ltd., India

Özden, Süreyya Yücel, Member, Board of Directors, Gama
Holding, Chairman of the Board, WEC Turkish National
Committee, Turkey

Issue Session 1.2: Eradicating energy poverty

Nearly two billion people in the world have no access to electricity and many more lack reliable energy supplies. Energy poverty is probably the most important barrier to development for almost half of the world population. How can we eradicate it?

Chair:

Chander, Seethapathy, Principal Director, Office of Information Systems and Technology, Asian Development Bank

Participants:

Sek, Adam, Regional Advisor on Energy, Sustainable Energy Division, United Nations Economic Commission for Europe (UNECE)

Garrón B., Mauricio, Energy Principal Executive, Andean Development Corporation

Rockall, James, Managing Director, World LP Gas Association

Storm van Leeuwen, Tjaarda P., Advisor, Africa Energy Unit (AFTEG), Africa Sustainable Development Department, The World Bank

Williams, Joseph, Program Manager, Energy, Caribbean Community Secretariat

Issue Session 1.5: Secure, efficient and clean energy systems across borders

Energy resources are not evenly distributed around the world. To build an efficient energy supply system, most countries must rely on energy exchanges with their neighbours and others. Regional integration of national energy systems can reduce global energy supply costs and increase security and reliability of supply. However, achieving regionalisation and globalisation of energy markets requires new infrastructures as well as a new mindset in politics, economics, and society as a whole.

Chair:

Barnés, Francisco, Commissioner, Mexican Energy Regulatory Commission, Vice-Chair, WEC North America, Mexico

Participants:

Musabelliu, Taulant, Executive Director, National Agency of Natural Resources, Albania

Brown, Malcom, Associate Deputy Minister, Natural Resources Canada, Canada

Mishra, Pramod Kumar, Chairman, Gujarat Electricity Regulatory Commission, India

Perroni, Alejandro, President, Regional Energy Integration Commission (CIER), General Manager, National Administration of Power Plants and Electric Transmissions, Uruguay

Tella, Abel Didier, Secretary-General, Union of Producers, Transporters and Distributors of Electric Power in Africa (UPDEA)

Issue Session 1.7: Energy supply bottlenecks

To ensure adequate response to increasing energy demand in the future will require more energy resources as well as more infrastructure, investments, logistics, manpower, expertise, and other inputs. The numerous links in the energy production chain can become overwhelming bottlenecks, hindering global progress if each component, is not addressed properly.

Chair:

Indrebø, Torstein, Secretary-General, International Gas Union

Participants:

Foreman, Dean, Chief Economist, Talisman Energy Inc., Canada

Lamarre, Patrick, Executive Vice-President, Global Power, SNC -Lavalin Inc., Canada

Oskvig, Dean, President and Chief Executive Officer, Black & Veatch Energy, United States

Rajakovic, Nikola, State Secretary, Ministry of Energy and Mining, Government of Serbia, Serbia

13:15 - 14:45

WEC SESSIONS - STUDIES AND REGIONAL WORK PROGRAMS

Session 1.8: WEC Study - World Energy and Climate Policies Assessment

The objective of this study is to provide an annual assessment of policies, regulations and/or standards and their effectiveness in addressing climate, growth or equality goals. The study will take into account regional characteristics as policies are not necessarily transferable from one region to another. It will also measure progress toward achieving the WEC development goals. Second, it should enhance WEC's visibility by publishing and promulgating the results of the assessment and proposing ways in which good practices in one country or region might be used in others.

Chair:

Gadonneix, Pierre, Chair, World Energy Council, Honorary Chairman, Électricité de France (EDF), France

Participants:

Birol, Fatih, Chief Economist, Director, Office of the Chief Economist., International Energy Agency

Zhou, Dadi, Director General Emeritus and Senior Researcher,

Energy Research Institute, National Development and Reform Commission of China, China

Davidson, Ongulade R., Minister of Energy and Water Resources, Government of Sierra Leone, Sierra Leone

Drzik, John, Chief Executive Officer, Oliver Wyman, United Kingdom

Nakicenovic, Nebojsa, Deputy Director, International Institute for Applied Systems Analysis (IIASA), Professor of Energy Economics, Vienna University of Technology (TU Wien), Austria

Session 1.9 WEC Regional Work Program, Africa

Chair:

Sambo, Abubakar S., Vice-Chair for Africa, World Energy Council Nigeria

Participants:

English, Rachel, Founder, Helios Social Enterprise, United Kingdom

Boutarfa, Nourredine, Chairman and Chief Executive Officer, Sonelgaz, Algeria

Lokolo, Michel Claude, Director of Petroleum Products and Gas, Ministry of Energy and Water Resources, Cameroon

Statham, Brian, Chair-Elect, Studies Committee, World Energy Council Afrique du Sud

Turner, Tim, Director, Private Sector and Microfinance Department, African Development Bank

Fall, Latsoucabe, Regional Manager, Africa, World Energy Council

14:45 - 15:00 COFFEE BREAK & EXHIBITION VISIT

15:00 - 16:15 WEC SESSIONS - STUDIES AND REGIONAL WORK PROGRAMS

Session 1.14 : WEC Study - Energy Foresight - Turning Critical Uncertainties into Strategies for the Future

Energy systems are complex and their evolution involves input from a variety of disparate sources. This high complexity, combined with uncertainty, constrains the predictability of energy foresight. WEC scenarios, built on its diverse membership structure, play an important role in a multi-stakeholder environment filled with ambiguity.

Chair:

Rose, Karl, Senior Fellow Scenarios, World Energy Council

Participants:

Davis, Ged, Co-President, Global Energy Assessment Council, International Institute for Applied Systems Analysis (IIASA)

Grueneich, Dian M., Commissioner, California Public Utilities Commission, United States

Nakicenovic, Nebojsa, Deputy Director, International Institute for Applied Systems Analysis (IIASA), Professor of Energy Economics, Vienna University of Technology (TU Wien), Austria

Pascoe, David M., Vice-President, Electric Vehicle Technology, Magna E-Car Systems, Magna International, Canada

Rao, B. Prasada, Chairman and Managing Director, Bharat Heavy Electricals Limited, India

15:00 - 16:15 PAPER PRESENTATIONS

To obtain final schedule of papers and posters presentations

[Click here](#)

15:00 - 16:15 WEC SESSIONS - STUDIES AND REGIONAL WORK PROGRAMS

Session 1.10 WEC Regional Work Program - Europe: Technological Shift to a Low Carbon Market

Chair:

Teyssen, Johannes, Chairman, E.ON AG, Germany

Participants:

Westergaard, Carsten Hein, Global Technology Director, Vestas Technology R&D Americas, United States

Barbaso, Fabrizio, Deputy Director General, European Commission Directorate-General for Energy

Diczfalusy, Bo, Director, Directorate of Sustainable Energy Policy and Technology, International Energy Agency

Kjems, Jørgen K., Chairman, Denmark Member Committee, World Energy Council, Denmark

Lundberg, Gunnar, Vice-President, Energy Policy and Regulation Affairs, Vattenfall, Sweden

Weber, Derek S., Business Development Manager, Marcellus Activity, Dresser, Inc. United States

Session 1.11 WEC Regional Work Program, Asia

Chair:

Kim, Younghoon David, Chairman and Chief Executive Officer, Daesung Group Korea

Participants:

Jin, Sang-Hyeon, Association Research Fellow, Seoul

Development Institute, Rep. of Korea
Kobayashi, Kenji, President, Asia Pacific Energy Research Centre (APEREC)
Mehta, J.K., Leader of Energy Poverty Alleviation Initiative, WEC Asia
Yang, Sun, Department of International Cooperation, National Energy Administration, China
Chander, Seethapathy, Principal Director, Office of Information Systems and Technology, Asian Development Bank

Session 1.12 WEC Regional Work Program, North America -

Chair:
Barnés, Francisco, Commissioner, Mexican Energy Regulatory Commission, Vice-Chair, WEC North America, Mexico

Participants:
Angulo de Leseigneur, Cintia, President, Alstom de México, Mexico
Futcher, John (Jack) E., President, Bechtel Power Corporation, United States
Muir, John R., Chair, Energy Council of Canada and, Director, Canadian Energy Policy, GE Energy, Canada
Newell, Richard G., Administrator, US Energy Information Administration, United States

Session 1.13 : WEC Regional Work Programme - Latin America: Energy Matters in the LAC Region, Current and Future Challenges -

Chair:
de Franco Medeiros, Norberto, Chairman, WEC Brazilian Member Committee, WEC Vice-Chair - Latin America and the Caribbean, World Energy Council Brésil

Participants:
Bertero, Raúl D., President, Center of Studies of Energy Regulatory Activities, University of Buenos Aires, Argentina
Flórez Piedrahita, Carlos Arturo, Executive Secretary, Latin American Energy Organization
Gutierrez Pemberty, Javier, Chief Executive Officer, Ecopetrol, Colombia
Muniz Lopez, José Antonio, President, Electrobras, Brazil
Perroni, Alejandro, President, Regional Energy Integration Commission (CIER), General Manager, National Administration of Power Plants and Electric Transmissions, Uruguay

Session 1.15: Energy Poverty Alleviation

Although there is agreement on the principle that energy should be universally accessible, there seems to be several opinions on the best way to reach this goal. The sheer diversity of local conditions and uneven distribution of available natural resources precludes the possibility of having a single approach. Energy access programs and policies therefore need to be tailored to fit local need to be effective. We need however to determine what are the basic principles which need to be respected and the best conditions under which those programs can be implemented to ensure a maximum positive impact and a rapidly measurable effects. In this context, it becomes particularly important to see how do international organisations develop those programs and measure the benefits they procure.

Chair:
Sambo, Abubakar S., Vice-Chair for Africa, World Energy Council Nigéria

Participants:
Kaberuka, Donald, President, African Development Bank

17:30
 Exhibition Closes

16:30 - 17:00	SPECIAL ADDRESS	Plenary
	Special addresses: Aksyutin, Oleg , Head, Gas Transportation, Underground Storage and Utilization Department, Gazprom, Russia	
17:00 - 17:30	SPECIAL ADDRESS	Plenary
	Special addresses: Kubiš, Ján , Executive Secretary, Under-Secretary-General, United Nations Economic Commission for Europe (UNECE)	
17:30 - 18:00	REPORT OF THE CONCLUSION GROUP	Plenary
18:00 - 18:00	FREE EVENING	-

Program subject to change without prior notice

® "LIVING PLANET" is a WWF trade mark and is used with permission.



Detailed program — Tuesday, September 14, 2010

[Print this page](#)

Day 2 Challenge | AVAILABILITY

WHAT IS THE RIGHT ENERGY MIX FOR LONG TERM STABILITY ?

The Earth's main energy sources have not changed significantly since the energy crises of the 1970's. Fossil fuels still constitute the main basis of our energy supply. Recent concerns about climate change and forecasted peaking in the production of conventional oil in the next ten to twenty years are challenging traditional thinking. These and other similar issues require a re-assessment of supply potential of the different energy sources already available today or to be developed in the near future. What is the right energy mix for the years to come?

EXHIBITION SCHEDULE	ACTIVITIES SCHEDULE	
	08:30 - 08:40	INTRODUCTION Plenary
	08:40 - 09:00	PRESENTATION OF THE DAILY CHALLENGE Plenary Champion: Birol, Fatih , Chief Economist, Director, Office of the Chief Economist, International Energy Agency
10:00 Exhibition Opens	09:00 - 10:30	ROUND TABLE - The Global Energy Mix in 2030 Chair: Vaitheswaran, Vijay V. , Correspondent, The Economist United States Participants: Kumar Singh, Vinay , Chairman and Managing Director, Northern Coalfields Limited, India Birnbaum, Leonard , Chief Strategy Officer, RWE AG Germany Birol, Fatih , Chief Economist, Director, Office of the Chief Economist, International Energy Agency Kim, Ssang-Su , President and Chief Executive Officer, KEPCO Korea Kron, Patrick , Chairman and Chief Executive Officer, Alstom France Vandal, Thierry , President and Chief Executive Officer, Hydro-Québec Canada
Visitors welcome	09:00 - 12:00	RETScreen SEMINAR - Mandatory Registration Participants: Meloche, Nathalie , Project Manager, RETScreen International Canada
	10:30 - 11:00	COFFEE BREAK & EXHIBITION VISIT Exhibition Hall
	11:00 - 11:30	KEYNOTE SPEAKER Plenary Keynote Speakers: George, Richard L. , President and Chief Executive Officer, Suncor Energy Canada
	11:30 - 12:00	KEYNOTE SPEAKER Plenary Keynote Speakers: Boyce, Gregory , Chairman and Chief Executive Officer, Peabody Energy United States
	12:00 - 13:15	LUNCH BREAK & EXHIBITION VISIT
	13:15 - 14:45	ISSUE SESSIONS - Issue Session 2.1: Energy resources and technologies, today and tomorrow According to most surveys, there are adequate resources in the world to meet growing global energy demand well into the 21st century. It is also expected that fossil fuels (from conventional and unconventional sources) will dominate the total primary energy mix for several decades to come. However, to anticipate the future and to meet the currently unmet demand, it is also necessary on a large-scale to deploy other resources, including wind, sun, biomass, geothermal and other. Chair: Sharpe, Vicky , President and Chief Executive Officer, Sustainable Development Technology Canada (SDTC) Canada

Participants:

Kondrashov, Alexander, Managing Director, Russian Corporation of Nanotechnologies (Rusnano), Russian Federation

Appert, Olivier, Chairman and Chief Executive Officer, Institut Français du Pétrole (IFP) France

Llewellyn Smith, Christopher, President, Council of SESAME (Synchrotron-light for Experimental Science and its Applications in the Middle East)

Pratt III, Roy J., Chief Technology Officer, Energy Industry Utilities, HP, United States

Sheridan, John, President and Chief Executive Officer, Ballard Power Systems Canada

Yurek, Gregory, Chairman of the Board and CEO, American Superconductor Corporation, United States

Issue Session 2.2: Solutions for sufficient, clean and secure supply of fossil fuels

Fossil fuels will remain a large part of the energy equation for the foreseeable future. The oil industry will, however, have to develop continuously in order to access new resources which will increasingly be located in remote regions. New technologies and techniques will be needed for exploration, extraction, transport, and transformation of these new resources. They will also have to be economically competitive and environmentally acceptable.

Chair:

Gossen, Randall, President, World Petroleum Council

Participants:

Behuria, Sarthak, Chairman, Petroleum Federation of India (PetroFed), India

De Ghetto, Giambattista, Senior Vice-President, Research and Technological Innovation, Exploration and Production Division, Eni, Italy

Álvarez Pelegrý, Eloy, Director, Corporate Intelligence, Gas Natural Group, Spain

Gires, Jean-Michel, President and Chief Executive Officer, Total E&P Canada Ltd., Canada

Whitney, Rob, Chief Executive Officer, CRL Energy, New Zealand

Issue Session 2.3: Challenges of efficient and clean use of fossil fuels

Transforming primary energy into an end-use ready energy product is becoming an increasingly challenging process. Given the high cost of energy, this process must be as efficient as possible. It must also be efficient in using other natural resources, such as land and water, and be as clean as possible. The final uses of energy, in particular, hydrocarbon-based fuels, must also be efficient since they generate greenhouse gases or other pollutants. There are solutions already in existence addressing these impacts and others are being developed.

Chair:

Catelin, Milton, Chief Executive, World Coal Institute (WCI)

Participants:

Bernier, Jean Y., President, Ultramar Ltd., Canada

Catell, Robert B., Chairman, Advanced Energy Research and Technology Center, Chairman, New York State Smart Grid Consortium, United States

Masumoto, Teruaki, Chairman, Japan Energy Association, Chairman, Japanese Member Committee, WEC Japan

Morris, Michael G., Chairman, President and Chief Executive Officer, American Electric Power (AEP) United States

Trojanowska, Hanna, Government Commissioner for Nuclear Energy and Undersecretary of State, Ministry of Economy Republic of Poland

Issue Session 2.4: Nuclear power: renaissance or demise?

Nuclear power is sometimes considered as a declining and dangerous technology and alternately as a sound environmentally sustainable solution for a world concerned about climate change and the dwindling fossil fuel resources. Nuclear power seems to be at the dawn of a new era that will be characterised by new designs and technologies. The nuclear fuel cycle is also being reassessed for a long-term outlook, including fuel production, reprocessing and disposal.

Chair:

Echávvarri, Luis E., Director General, OECD Nuclear Energy Agency (NEA)

Participants:

Chung, KunMo, Conseiller, KEPCO, Rep. de Corée

Ferland, Jim, President, Americas Region, Westinghouse, United States

Grandey, Gerald, Chief Executive Officer, Cameco, Canada

Huaxiang, Lu, Vice-President, China National Nuclear Corporation, China

MacDiarmid, Hugh, President and Chief Executive Officer, Atomic Energy of Canada Limited, Canada

Tanhua, Jarmo, Chief Executive Officer and President,

Teollisuuden Voima Oyj Finland

Issue Session 2.5: Renewable and alternative energies in the global energy mix

In a world of declining conventional energy resources, the idea of continuously renewable resources is certainly appealing. Until now, large hydroelectric schemes have been the only truly significant sources of renewable power, but things are changing fast with the introduction of more efficient technologies that generate power at competitive prices using renewable sources such as wind and solar power as well as biomass and geothermal energy, and, in the more distant future the energy from the oceans. More fundamental work in physics, genetics and material sciences could also open up other hitherto unexpected possibilities.

Chair:

Yamaji, Kenji, Professor of Electrical Engineering, University of Tokyo, Japan

Participants:

Bakkoury, Mustapha, President, Moroccan Agency for Solar Energy (MASEN), Morocco

Burger, Martin, President, Founder, Chief Executive Officer and Director, Blue Energy Canada, Canada

Castello Branco, Ricardo, Director, Ethanol Ventures, Petrobras Brasil

Dick, Georges P., Chief Executive Officer, RSW Inc., Canada

Hornung, Robert, President, Canadian Wind Energy Association CanWEA, Canada

Toth, Attila, Vice-President Marketing, SunEdison, United States

Issue Session 2.6: Energy efficiency: a « new » energy source and its metrics

In the global energy equation, avoiding energy consumption is preferable to adding more production, since with greater efficiency we can provide the same energy services using less resources. In this sense, energy efficiency can really be considered the equivalent of a new, large and almost untapped energy source. From big industries to individual consumers, everyone can make an effort to improve energy efficiency and benefit from it. Improving energy efficiency is, however, not always an easy task as it is a result of policies and regulations, measures, technologies, economics and other components.

Chair:

Généreux, Claude, Director and Global Electric Power and Natural Gas Leader, McKinsey & Company, Canada

Participants:

Arnold, George W., National Coordinator, Smart Grid Interoperability, National Institute of Standards and Technology United States

Bichsel, Matthias, Director, Projects and Technology, Royal Dutch Shell Netherlands

Harries, Rhodri, Senior Vice-President, Commercial, Energy and Carbon Products, Rio Tinto Alcan Canada

Régis, Jacques, President, International Electrotechnical Commission (IEC)

Hamilton, Paul, Senior Vice-President, Energy Efficiency Programs, Schneider Electric, United States

Issue Session 2.7 : Unconventional sources of fossil fuels

Although there are still significant quantities of oil and gas in the world, their continuously growing use in the last 100 years has led to the depletion of the most easily accessible reserves. The increasing difficulties and costs encountered in developing new reserves, whether due to harsh arctic conditions or exploration of deep sea deposits, has encouraged the development of new technologies for extracting oil from unconventional sources. These may include some types of sources previously considered uneconomical, such as oil shale and oil sands, for example, or new techniques increasing oil quantities which can be recovered from wells previously considered as depleted.

Chair:

Bennaceur, Kamel, Chief Economist, Schlumberger, France

Participants:

Watson, Peter, Energy Deputy Minister, Government of Alberta, Canada

Liive, Sandor, Chief Executive Officer and Chairman of the Management Board, Eesti Energia AS, Estonia

Meyers, Kevin, Senior Vice-President, Exploration and Production - Americas, ConocoPhillips United States

Seasons, Chris, President, Devon Canada, Canada

Weber, Derek S., Business Development Manager, Marcellus Activity, Dresser, Inc. United States

Issue Session 2.8: Hydrocarbons from arctic sources

The rapid development of the petroleum industry in the 20th century has led to the exploitation of the oil sources closest to markets. As demand grew, new sources of hydrocarbons were sought in farther away, harder to reach areas requiring more sophisticated recovery techniques. Strengthened by these experiences, we now have the very real possibility of accessing

to vast reserves lying under the land and marine territories of the arctic zones, reserves which until not very long ago were out of reach. But what is the Arctic's real energy potential?

Chair:

Page, Alan W., Global Energy, Utilities and Mining Leader, PricewaterhouseCoopers United States

Participants:

McGuire, Lesil, Senator, Alaska State Legislature, United States

Beaudoin, Yannick, Manager, Marine Programme, UNEP/GRID-Arendal Norway

Kirkwood, Donna, Acting Director General, Atlantic and Western Canada Branch, Geological Survey of Canada, Natural Resources Canada, Canada

McLeod, Robert, Minister of Industry, Tourism and Investment, Government of the Northwest Territories, Canada

14:45 - 15:00 COFFEE BREAK & EXHIBITION VISIT -

15:00 - 16:15 PAPER PRESENTATIONS
To obtain final schedule of papers and posters presentations -
[Click here](#)

15:00 - 16:15 WEC SESSIONS - STUDIES AND REGIONAL WORK PROGRAMS
Session 2.9 WEC Study on Vulnerabilities To Energy Sustainability – Water For Energy

Chair:

Gcabashe, Thulani, Special Advisor, Eskom, South Africa

Participants:

Abdel-Malek, Reefat, President, International Hydropower Association (IHA)

Fernández Zayas, José Luis, Professor, National Autonomous University of Mexico, Mexico

Hightower, Michael, Distinguished Member of the Technical Staff, Sandia National Laboratories, United States

Session 2.10 - WEC Study on Vulnerabilities To Energy Sustainability – Logistics Bottlenecks

Chair:

Yeager, Kurt E., Executive Director, Galvin Electricity Initiative, United States

Participants:

Arnold, George W., National Coordinator, Smart Grid Interoperability, National Institute of Standards and Technology United States

Gonzales, Rick, Chief Operating Officer, New York Independent System Operator, United States

Turek, Mariusz, Partner, Profitia Management Consultants Poland

Session 2.11 Presentation of the WEC Energy Efficiency Policies and Indicators -

The Energy Efficiency Policies and Indicators Committee, together with ADEME, the French Environment and Energy Management Agency, is focusing its work on the evaluation of energy efficiency trends worldwide and analysis of the interaction between energy efficiency policies and energy efficiency performance of economies by comparing specific energy efficiency indicators.

Chair:

Moisan, François, Executive Director, Strategy, Research and International Affairs, and Scientific Director, ADEME, France

Participants:

Bosseboeuf, Didier, Coordinator of International Studies, Department of Economics, ADEME, France

Grueneich, Dian M., Commissioner, California Public Utilities Commission, United States

Lapillonne, Bruno, Vice-President, Enerdata France

Singh, Jas, Senior Energy Efficiency Specialist, Energy Sector Management Assistance Program (ESMAP), The World Bank, Energy, Transport and Water Department

Zhou, Dadi, Director General Emeritus and Senior Researcher, Energy Research Institute, National Development and Reform Commission of China, China

Session 2.12: WEC Committee on Cleaner Fossil Fuels Systems

Carbon capture and storage after Copenhagen: An imperative, not an option

Given the growing concerns about the environmental performance of fossil fuels, it is imperative to find ways for deployment of cleaner and more efficient fossil fuels combustion technologies. Cleaner systems mitigate the adverse consequences of the use of fossil fuels and permit their positive qualities to be more fully harnessed for economic and social development. Clean technologies development is advancing rapidly and there is a major potential for their deployment, in

particular in the quickly growing developing countries.

Chair:

McKee, Barbara Nance, Director, Office of Clean Energy Collaboration, Office of Clean Coal, and Office of Fossil Energy, US Department of Energy, United States

Participants:

Lackner, Klaus S., Ewing Worzel Professor of Geophysics, Columbia University United States

Shihab-Eldin, Adnan, Secretary General, Kuwait Nuclear Energy Committee (KNNEC), Kuwait

Sweeney, Graeme, Executive Vice President, CO2, Shell, United Kingdom

Wood, James F., Deputy Assistant Secretary for Clean Coal, Office of Fossil Energy, US Department of Energy, United States

McKee, Barbara Nance, Director, Office of Clean Energy Collaboration, Office of Clean Coal, and Office of Fossil Energy, US Department of Energy, United States

Session 2.13: WEC Survey on Energy Resources

This triennial publication is an indispensable reference for energy industry executives, scenario analysts and energy technology researchers. The findings it contains are invaluable to many organizations in energy community, such as the IEA, the EIA and the IAEA and certain development agencies. It is the only source of data on global energy compiled from national data that is carefully checked to ensure accuracy. The latest version is a 600-page document on which much of the planning done worldwide will be based. This 22nd edition of the Survey of Energy Resources, including a full report on CD-ROM and a synopsis, will be made available to delegates at the Montreal Congress in September 2010.

Chair:

Iancu, Iulian, President, Industry and Services Committee, Chamber of Deputies, Government of Romania, Romania

Participants:

Davis, Richard D., Senior Energy Advisor, RTI International, President, Davis Energy, United States

Feroli, Jorge, President and Chief Executive Officer, n Jorge Petroleum S.A., San Jorge Energy S.A. and San Jorge Minera S.A., Argentina

Clark, Alan, Energy Data Associates, United Kingdom

Elliott, David, Chief Petroleum Advisor, Alberta Securities Commission, Canada

Rao, Vikram, Executive Director, Research Triangle Energy Consortium (RTEC), United States

Trinnaman, Judy, Energy Data Associates, United Kingdom

Vulnerabilities To Energy Sustainability

Previous WEC studies have identified vulnerabilities as significant hurdles to be overcome:

Four sub groups will examine these vulnerabilities as parts of an integrated study and their findings will be parts of a final study. Working with governments academics and taking regional characteristics into consideration, each sub group will identify its specific issue and examine the financial and policy requirements needed to address them. The objective is to provide important information for decision makers in industry, governments and development institutions highlighting the risks to energy and social sustainability from these vulnerabilities.

There will be special emphasis on issues specific to regions, but these will be assembled into global scale recommendations. The study will be accomplished in stages from December 2008 until the Montreal Congress in 2010.

16:30 - 17:00	SPECIAL ADDRESS	Plenary
	Special addresses: Hogan, Joseph M. , Chief Executive Officer, ABB Switzerland	
17:00 - 17:30	SPECIAL ADDRESS	Plenary
	Special addresses: Mori, Shosuke , Chairman, Kansai Electric Power Company, Japan	
17:30 - 18:00	REPORT OF THE CONCLUSION GROUP	Plenary
	Rapporteur of the day: Chodzicki, Wayne , Global Head of Oil & Gas, KPMG, Canada	
18:00 - 18:00	FREE EVENING	

Program subject to change without prior notice

® "LIVING PLANET" is a WWF trade mark and is used with permission.



Detailed program — Wednesday, September 15, 2010

[Print this page](#)

Day 3 Challenge | **ACCEPTABILITY**

ENERGY SOLUTIONS FOR A LIVING PLANET

Sustainability and acceptability are now the prerequisites for any long term energy supply strategy for our Planet. In fact, any viable energy strategy must now include complete assessments and management plans for environmental or social impact. It must also be formulated with public participation and give priority to more efficient systems and technologies. The development of efficient, sustainable energy policies and practices is a complex task involving many parties.

EXHIBITION SCHEDULE	ACTIVITIES SCHEDULE		
	08:30 - 08:40	INTRODUCTION	Plenary
	08:40 - 09:00	PRESENTATION OF THE DAILY CHALLENGE Champion: Brown, Lester R. , President, Earth Policy Institute United States	Plenary
	09:00 - 10:30	ROUND TABLE Sustainable Energy Solutions for Mankind and the Planet Chair: Prentice, Jim , Minister of the Environment, Government of Canada, Canada Participants: de Boer, Yvo , Special Global Advisor, Climate Change and Sustainability, KPMG Duhaime, Pierre , President and Chief Executive Officer, SNC-Lavalin Group Inc. Canada Muniz Lopez, José Antonio , President, Electrobras, Brazil Kim, Younghoon David , Chairman and Chief Executive Officer, Daesung Group Korea	-
10:00 Exhibition Opens Visitors welcome	09:00 - 12:00	RETSREEN SEMINAR Mandatory Registration Participants: Meloche, Nathalie , Project Manager, RETScreen International Canada	-
	10:30 - 11:00	COFFEE BREAK & EXHIBITION VISIT Sponsored by: 	-
	11:00 - 11:30	KEYNOTE SPEAKER Keynote Speakers: Lauvergeon, Anne , Chief Executive Officer, AREVA Group France	Plenary
	11:30 - 12:00	KEYNOTE SPEAKER Keynote Speakers: Liu, Zhenya , Chairman and Chief Executive Officer, China State Grid, China	Plenary
	12:00 - 13:15	LUNCH BREAK & EXHIBITION VISIT	
	13:15 - 14:45	ISSUE SESSIONS Issue Session 3.1: Full life cycle - the only reliable framework for impact assessment Managing and reducing environmental impact over the full life cycle of any energy system has become an integral part of the energy business. It is especially important with fossil fuels, where it is imperative to deploy cleaner, more efficient combustion technologies and introduce adequate mechanisms to reduce carbon emissions or to remove from the environment. The same challenge faces nuclear power, where spent fuel disposal is still a crucial issue. Even apparently clean technologies, such as solar photovoltaic cells, need proper recycling processes. Chair: Allotey, Jonathan A. , Executive Director, Environmental Protection Agency, Ghana Participants:	-

Brikho, Samir, Chief Executive, AMEC plc United Kingdom
De Vuono, Anthony, Senior Vice-President and Chief Technology Officer, Atomic Energy of Canada Limited, Canada
ElDaief, Magued, Executive Director, Infrastructure Accounts, GE Energy, United States
Oosterveer, Peter, President, Energy & Chemicals Group, Fluor Corporation United States

Issue Session 3.2: Public awareness and involvement in decision making: the main success factors -

The general public is increasingly involved in the process of defining any project with an impact on the environment or society. But to derive the greatest benefit from this process, it is essential to adequately inform the public about the project and then ensure its concerns are reflected in the final planning. It is also necessary that all concerned have a clear understanding of the advantages and disadvantages of available energy choices. Openness and honesty constitute essential conditions for the success of any project.

Chair:

Guimond, Pierre, President and Chief Executive Officer, Canadian Electricity Association, Canada

Participants:

Lal, Sumir, Manager, Operational Communications, External Affairs Vice Presidency., World Bank
Bell, John Kim, Head, Aboriginal Affairs, Brookfield Renewable Power, Canada
Brochu, Sophie, President and CEO, Gaz Metro Canada
Muto, Sakae, Executive Vice President and Chief Nuclear Officer, Tokyo Electric Power Company Inc., Japan
Vincent, Julien, Climate and Energy Campaigner, Greenpeace International

Issue Session 3.3: Road map to efficient energy policies -

Developing energy policies and practices capable of achieving energy and climate sustainability on a global scale is a complex process requiring cooperation among all stakeholders: governments, businesses, technology promoters, economists and non-governmental organisations. To further this process it is helpful to assess different energy policies and practices already in place and use them to benchmark achievements in this regard. The benchmarking exercise can also help identify vulnerabilities in the energy system and suggest ways to overcome them.

Chair:

Kearney, Christopher J., Chairman, President, and Chief Executive Officer, SPX Corporation United States

Participants:

Bartels, Guido, Chairman, GridWise Alliance™, General Manager, Energy & Utilities Industry, IBM United States
Collyer, David, President, Canadian Association of Petroleum Producers Canada
Júliusdóttir, Katrín, Minister of Industry, Energy and Tourism Iceland
MacNaughton, Joan, Senior Vice-President, Power and Environmental Policies, Alstom Power United Kingdom
Swiger, Andrew, Senior Vice-President, Exxon Mobil Corporation United States

Issue Session 3.4: Energy efficient urban systems -

With the growing global trend toward urbanisation, the city will be the main environment therefore requiring more efficient uses of energy. Because of their high population density, and the presence of industries and infrastructures, cities also offer natural conditions for efficiency gains. District heating and cooling, high density dwellings, mass transit systems and many other efficient infrastructures have been part of the urban landscape for years. We have begun to see new global approaches in urban planning, where energy efficiency and environmental sustainability are key defining objectives.

Chair:

Miles, John, Board Member, Arup Group United Kingdom

Participants:

Werner, Frederick W., Executive Vice-President, Business Lines, AECOM, United States
Denig, Stefan, Vice-President, Head of Corporate Communications / Issue Management, Siemens AG, Germany
Dirks, Tija, Director, Growth Policy, Planning and Analysis Branch, Ministry of Energy and Infrastructure, Government of Ontario, Canada
Fukue, Ichiro, Senior Executive Vice-President, Mitsubishi Heavy Industries, Ltd. Japan

Issue Session 3.5: Energy for transport -

The transport sector is emblematic of our modern society and our energy opulence. In fact, the transportation sector consumes almost half of the world oil production, the essential part of that energy being burned on roads. With increased availability of the individual car in the developing countries, it is also expected that three-quarters of the projected increase in worldwide oil demand will come from the transport sector. The

positive side of that situation is that individual cars can be made far more efficient since they can rely on alternate fuels or energy sources. They can also be replaced with mass transit systems consuming far less energy to move people over the same distance. Energy efficiency is also a keyword in the air travel sector, where it is directly linked to economic competitiveness.

Chair:

Forer, Gil, Global Director, Cleantech, Ernst & Young United States

Participants:

Chan, C.C., Honorary Professor and former Head, Department of Electrical and Electronic Engineering, University of Hong Kong, President, World Electric Vehicles Association and Smart Grid, Hong Kong - China

Kawaguchi, Yuji, Managing Director, Honda R&D Co., Ltd Japan

Trainham, James A., Vice-President, Strategic Energy Initiatives, RTI International, United States

Wu, Donald Pihsiang, Chairman, Taiwan-China

Issue 3.6 : Energy and Climate Change

The energy sector accounts for more than 40 percent of global CO2 emissions; an increase in demand will mean a continued reliance on fossil fuels in the short term. It also means that even if renewable forms of energy generation make significant inroads, the quantities of fossil fuels used will still increase in absolute terms for the near future. It is imperative, then, to take a hard look at what options may be readily implemented in order to mitigate the impact of an increased quantity of fossil fuels while still allowing their use. Cleaner technologies to extract energy from coal as well as CO2 capture and storage must be assessed and their economic impact on the efficiency and yields of the sector must be balanced against the overall objective of mitigating climate change.

Chair:

Pratte, André, Editor-in-Chief, La Presse, Canada

Participants:

Cheikhrouhou, Hela, Director, Energy, Environment and Climate Change Department, African Development Bank

Irving, Jacob, President, Canadian Hydropower Association Canada

Suess, Michael, Chief Executive Officer, Fossil Power Generation, Siemens, Germany

Wicks, Malcom, House of Parliament, House of Parliament United Kingdom

Issue 3.7 : Large Energy Projects

Rapid growth in energy demand and access to large reserves of natural resources have inspired vast projects in the past. With time and experience, developers have focused attention on environmental and social considerations, which has had an immense impact on the way we plan, design, and build large energy projects. Technological innovations have also changed the kinds of feasible projects so that we can now consider works that would have been impossible in scope as well as in technologies used only a generation ago. The objective of this session is to give an overview of what large energy projects are currently underway or are under consideration around the world.

Chair:

Strobele, Kurt A, Chairman and Chief Executive Officer, Hatch Group, Canada

Participants:

Burkhartsmeyer, Frank, Vice-President, Strategic Planning and Investor Relations, Iberdrola Renewables U.S. and Canada, United States

Bigot, Bernard, Chairman, French Alternative Energies and Atomic Energy Commission France

Diallo, Amadou, , West African Power Pool

Massampu, Yengo, Director General, Société nationale d'électricité, Democratic Republic of Congo

14:45 - 15:00 COFFEE BREAK & EXHIBITION VISIT

15:00 - 16:15 PAPER PRESENTATIONS

To obtain final schedule of papers and posters presentations

[Click here](#)

15:00 - 16:15 WEC SESSIONS - STUDIES AND REGIONAL WORK PROGRAMS

Session 3.8 WEC Study on Rules of Energy Trade & Investment

The need for clearer international rules governing energy trade and investment has been identified as a potential problem in the WEC Scenarios. Concerns about security of supply by consuming nations and security of demand by supplying nations are more pronounced than ever and threaten the international fabric of the globe. The World Trade Organization Agreement govern trans-border movement of energy in various ways, but do not deal with energy in a coordinated manner and leave many aspects unclear and unanswered questions, particularly

regarding new forms of energy such as biofuels and the carbon footprint. The main objective of the Task Force is to provide a systematic analysis of how trade rules affect international energy trade and to make recommendations for improving those rules consistent with the interests of the energy industry. Ultimately, the objective is to work directly with the WTO and other international organizations (such as the OECD, the IAEA, UNCTAD, etc.) as well as NGOs active in the field on preparations for the next round of trade negotiations (post-Doha) so as to put energy goods and services into the mandate.

Chair:

Marcu, Andrei, Head, Regulatory Affairs, Environment and Climate Change, Mercuria Energy, Switzerland

Participants:

Lescoeur, Bruno, Senior Executive Vice-President, Électricité de France (EDF), France

Zhou, Dadi, Director General Emeritus and Senior Researcher, Energy Research Institute, National Development and Reform Commission of China, China

Richards, Timothy J., Managing Director, International Energy Policy, General Electric Company United States

Session 3.9 WEC Study on Performance of Power Generating Plant

Market structures, technologies, environmental standards, and other factors are changing the way the electricity sector operates and are posing new challenges for power plant operators around the world. New strategies, greater collaboration within the industry, and new tools are required to make it possible to collect, analyse, and leverage plant performance initiatives. The Committee's main objective is to promote international data exchange and best practices for generating plant performance and to achieve the most effective use of generation assets and energy resources worldwide. This objective will be accomplished by enhanced international data exchange and communications, benchmarking workshops and presentations. The new generating plant performance indicators database will be at the centre of the process with continuous power plant reliability statistics collection and direct entry of data into the database by participating companies and organisations.

Chair:

Theis, Karl A., Executive Managing Director, VGB PowerTech, Germany

Participants:

Curley, Mike, Manager, GADS Services, North American Electric Reliability Corporation

González Sánchez, Rafael, Deputy General Manager, Head of Department of Business Development, Enel Union Fenosa Energías Renovables S.A., Spain

Mandula, Jiri, Nuclear Power Engineering, International Atomic Energy Agency

Moss, Terry, General Manager, Generation Learning Faculty, Eskom, South Africa

Richwine, Robert R., Reliability Management Consultant, United States

Stallard, Scott G., Vice-President in Charge of Asset Management Services, B&V Energy, United States

Session 3.10 WEC Study on Interconnectivity

The introduction of market liberalization in many countries/regions and the unbundling of generation from transmission, have exposed transmission "bottlenecks" limiting the development of well-functioning markets. Despite a fairly strong opposition to construction of new transmission lines, strong interconnections between countries can reduce the supply volatility and mitigate its impacts. The objective of this study is to identify and demonstrate, both in quantitative and qualitative terms, the potential benefits of properly designed, maintained and operated transmission infrastructure using the state-of-the-art technologies and management practices, including "smart grids". The Task Force will provide a picture for each continent of the existing interconnections and of projects under discussion including environmental and to socio/political aspects, and the latest technologies.

Chair:

Clerici, Alessandro, Honorary Chairman, Italian Member Committee, World Energy Council, Italy

Participants:

Álvarez Pelegrí, Eloy, Director, Corporate Intelligence, Gas Natural Group, Spain

Cova, Bruno, Scientific Manager, CESI Italy

O'Brien, Kieran, Member, Officer's Council, World Energy Council, Ireland

Ray, Colin, Consultant

Sarmiento Uruchurtu, Héctor Gerardo, Project Manager, Electric Systems Division, Instituto de Investigaciones Electricas, Mexico

Valocchi, Michael F., Vice-President/Partner, and Global Energy and Utilities Industry Leader, IBM Global Business Services United States

Session 3.11 WEC Study on Biofuels

In the past few years there have been important advances in the field of alternative transportation fuels, primarily ethanol and biodiesel. Both the automobile industry and the biodiesel producers have played a major role in developing the technical and normative prerequisites. The challenge is to develop biofuels which do not compete with the food chain, which are sustainable, and for which the carbon footprint is known and a net gain. The main objective of the Task Force will be to identify and evaluate the leading production technologies and the main barriers to an accelerated development and deployment of biofuels standards and technologies worldwide and formulate recommendations for removal of these barriers.

Chair:

Fontes, Sergio, Petrobras, Petrobras Brazil

Participants:

Acosta, Analia, Manager, Biofuels Repsol-YPF, Argentina

Davis, Richard D., Senior Energy Advisor, RTI International, President, Davis Energy, United States

Myers, David F., Vice-President, Engineering and Technology Unit, RTI International, United States

Potter, Ian J., Vice-President, Energy, Alberta Innovates – Technology Futures, Canada

Svahn, Ulf, Managing Director, Swedish Petroleum Institute, Sweden

Session 3.12: Role of Civil Society

In recent years we have seen an increase in the number of pressure groups of all kinds wanting a voice in the development all projects which could have a potential environmental or social impact. What role do organisations like NGOs, citizens groups, professional associations want to play in the planning and development of energy policies and infrastructures. How do they perceive the energy sector and, considering the need to increased supply to satisfy demand, how do they want to work with industry representatives?

16:30 - 17:00	SPECIAL ADDRESS	Plenary
	Special addresses: Kirienko, Sergey , Director General, State Atomic Energy Corporation (ROSATOM) Russia	
17:00 - 17:30	SPECIAL ADDRESS	Plenary
	Special addresses: Pelosse, H�el�ene , Interim Director-General, International Renewable Energy Agency	
17:15 - 18:15	Additional Event FT - WEC Energy Leaders Question Time	
17:30 - 18:00	REPORT OF THE CONCLUSION GROUP	Plenary
18:00 - 18:00	FREE EVENING	

Program subject to change without prior notice

  "LIVING PLANET" is a WWF trade mark and is used with permission.



Detailed program — Thursday, September 16, 2010

[Print this page](#)

Day 4 Challenge | ACCOUNTABILITY

POLICIES, REGULATIONS AND FINANCING

Financing energy projects requires clear policies and stable regulatory frameworks to ensure optimal use of resources, and good rates of return on investments. Achieving a balance between these three elements is not easy, and will require unprecedented levels of public-private cooperation and new forms of government partnership.

EXHIBITION SCHEDULE	ACTIVITIES SCHEDULE	
	08:00 - 09:30	ENERGY TRADE - KEEPING OPEN MARKETS IN TODAY'S GLOBAL ECONOMY Plenary
		Chair: Gadonneix, Pierre , Chair, World Energy Council, Honorary Chairman, Électricité de France (EDF), France Champion: Lamy, Pascal , Director General, World Trade Organization Moderator: Herman, Lawrence , Counsel, Cassels, Brock & Blackwell LLP, Canada Participants: Krenicki Jr., John , Vice-Chairman, GE, President and Chief Executive Officer, GE Energy Infrastructure, United States Shankar, P. Uma , Secretary, Ministry of Power, Government of India, India Van Loan, Peter , Minister of International Trade, Government of Canada, Canada
	09:00 - 12:00	RETSSCREEN SEMINAR -
		Mandatory Registration Participants: Meloche, Nathalie , Project Manager, RETScreen International Canada
	09:30 - 11:00	ROUND TABLE -
10:00 Exhibition Opens Visitors welcome		Energy for a Sustainable Future – Think the Unthinkable Chair: Frei, Christoph , Secretary General, World Energy Council Participants: Beeuwsaert, Dirk , Executive Vice-President in charge of Energy Europe & International, GDF SUEZ, France Brufau, Antonio , Chairman and Chief Executive Officer, Repsol YPF, Vice-President, Gas Natural Group Spain Caillé, André , Former Chairman, World Energy Council Canada Lima A. Neto, José , President, Petrobras Distribuidora S.A.-BR, Brazil Shankar, P. Uma , Secretary, Ministry of Power, Government of India, India
	11:00 - 11:15	COFFEE BREAK & EXHIBITION VISIT -
		Sponsored by: 
	11:15 - 11:45	KEYNOTE SPEAKER Plenary
	11:45 - 12:15	KEYNOTE SPEAKER Plenary
		Keynote Speakers: Proglia, Henri , Chairman and Chief Executive Officer, EDF Group France
	12:00 - 14:00	Round Table of Canadian Energy Ministers Plenary
		The objective of the round table is to get an overall view of what the energy policy will look like in Canada in the coming years. On the bases of a country wide consultation undertaken by the Energy Council of Canada, we will ask the Ministers what are the challenges the energy industry will have to face and what are their views on future evolution of energy policy. This event will give them an opportunity to speak and share their thoughts on their priorities and what they consider would be the best

strategy for the government they represent.

Limited seats, a lunch will be offered graciously

Chair:

Pratte, André, Editor-in-Chief, La Presse, Canada

Participants:

Duguid, Brad, Minister of Energy, Government of Ontario, Canada

Bennett, Bill, Minister, Energy, Mines and Petroleum Resources, Government of British Columbia, Canada

Boyd, Bill, Minister of Energy, Government of Saskatchewan, Canada

Brown, Richard, Minister of Environment, Energy and Forestry, Government of Prince Edward Island, Canada

Chomiak, Dave, Minister of Innovation, Energy and Mines, Government of Manitoba, Canada

Dunderdale, Kathy, Minister of Energy, Government of Newfoundland & Labrador, Canada

Liepert, Ronald, Minister of Energy, Government of Alberta, Canada

McLeod, Robert, Minister of Industry, Tourism and Investment, Government of the Northwest Territories, Canada

Normandeau, Nathalie, Minister of Natural Resources and Wildlife, Government of Québec, Canada

Paradis, Christian, Minister, Ministry of Natural Resources Canada

Rouble, Patrick, Minister of Energy, Government of Yukon, Canada

12:15 - 13:15 LUNCH BREAK & EXHIBITION VISIT -

13:15 - 14:45 ISSUE SESSIONS

Issue Session 4.2: Developing new energy strategies through international cooperation -

Energy sustainability cannot be the concern of a single country, continent or even the concern of rich countries alone. Energy sustainability can only be addressed as a worldwide project. It has to grow from a multitude of local initiatives that complement one another, and add their contributions toward a shared global view of what must be achieved.

Chair:

Cox, Anthony, Head, Environment and Economy Integration Division, Environment Directorate, Organisation for Economic Co-operation and Development (OECD)

Participants:

Dobbeni, Daniel, President, European Network of Transmission System Operators for Electricity (ENTSO-E)

Flórez Piedrahita, Carlos Arturo, Executive Secretary, Latin American Energy Organization

Kim, Eun-Seok, Ambassador for Energy and Resources, Ministry of Foreign Affairs and Trade, Government of Korea Rep. of Korea

Turner, Tim, Director, Private Sector and Microfinance Department, African Development Bank

Issue Session 4.1: Energy, food, natural resources and the environment: striking the balance -

The resources of our planet are limited and their availability is interdependent. Providing enough energy, water, food and biomass for the planetary population can be a daunting task, as we need to allocate sufficient resources for each use. Biofuel production using land, water, equipment and fertilizers previously dedicated to food production is probably the best example of that new concern. Collaboration between different sectors is essential.

Chair:

Situmeang, Hardiv Harris, Chairman, Indonesian National Committee, WEC, Advisor, National Development Planning Agency and Indonesian National Council on Climate Change Indonesia

Participants:

Méndez Galain, Ramón, Head, National Energy Agency, Ministry of Industry, Energy and Mining, Government of Uruguay, Uruguay

Gustafson, Daniel, Director, FAO Liaison Office for North America

Mayer, Gerhard, Engineering Manager, Aqotec, Austria

Sinclair, Pierrette, Counsel, Borden Ladner Gervais LLP, Canada

Issue Session 4.3: Sharing experience: examples of successful initiatives in technology transfer -

Technology transfer is essential to developing countries, empowering them through knowledge. Technology transfer is not limited to power generation, since energy issues also encompass environmental and developmental issues. How is it possible to leverage the expertise available across all energy sectors to respond to the specific needs of different regions of the world?

Chair:

Khatib, Hisham, Ministry of Energy, WEC Honorary Vice-Chairman, Jordan

Participants:

Alizadeh, Ala, Vice-President, Marketing and Business Development, Atomic Energy of Canada Limited, Canada
Valladares, Mary-Rose, Director, IEA Hydrogen Agreement
Hartwell, Peter G., Distinguished Technologist, HP, United States
Weinhold, Michael, Chief Technology Officer, Energy Sector, Siemens AG, Germany
Wilson, Bruce, General Manager, Department of Resources, Energy and Tourism, Australia

Issue Session 4.4: Investing in the transition : risks and rewards

Building a better energy future will be very expensive. Capital for new projects will be difficult to attract at a time when the financial resources of the planet are limited and required for many other pressing needs, such as education and health care. Attracting capital requires a viable balance between risk and return, and this depends on consistent energy prices. Building a better future has a price. Refusing to face this reality can be far more expensive.

Chair:

John, Ales, Chairman of the Board and Chief Executive Officer, Nuclear Research Institut Řež Czech Republic

Participants:

Bruneau, Mark, Chairman, Neotechcapital Canada
Chalons-Browne, Roland W., President and Chief Executive Officer, Siemens Financial Services Germany
Dunsky, Ian, Co-chair, Infrastructure and Public-Private Partnerships, Heenan Blaikie LLP Canada
Fache, Dominique, General Director for Russia, Enel Russia
Glemarec, Yannick, Executive Coordinator, Global Environment Facility, and Director of Environment Finance, UNDP
Wyrsch, Martha, President, Vestas-American Wind Technology, Inc. United States

Issue Session 4.5 – Management Tools to Ensure Projects Acceptability and Sustainability

The development and implementation of sustainable energy projects in a timely and efficient manner requires good control systems to supervise all aspects of the project and ensure they meet increasingly stringent environmental and social requirements. Good management tools are needed to track costs and ensure regulatory compliance. This involves long term planning, close financial supervision and legal counselling.

Chair:

Madsen, Henrik O., President and Chief Executive Officer, DNV Norway

Participants:

Kell, Georg, Executive Director, United Nations Global Compact
Armstrong, Geno, International Head, Engineering and Construction, KPIMG LLP, United States
Heimann, Klaus, Senior Vice-President, Head of Service Industries, SAP AG Germany
Sauriol, Jean-Pierre, President and Chief Executive Officer, Dessau Canada
Taylor, Richard M., Executive Director, International Hydropower Association
Valocchi, Michael F., Vice-President/Partner, and Global Energy and Utilities Industry Leader, IBM Global Business Services United States

Issue 4.6: Energy Sector regulation: A Continuous Learning Process

Regulation is the basic tool to implement policy. As national policies change and evolve in response to the new realities of a fast changing and increasingly interdependent world, to so do regulations need to change in order to serve their original purpose. We need to adapt our regulatory frameworks continuously to help create the environment were such an industry can grow and develop the way it was expected. A permanent and close examination of the regulatory framework is therefore required to follow the effects of regulations and update them as needed to ensure they are indeed useful. It is also increasingly necessary to see that regulations are compatible as we seek to develop more efficient regional markets and need to build transboundary infrastructures to enhance energy security. During this session, the ICER VWG4 Distinguished Scholar Award will be given.

Chair:

Caron, Gaétan, Chair and CEO, National Energy Board of Canada Canada

Participants:

Livingston, Andrew, Renewable Energy Regulator, Renewable Energy Regulator, Australia
Coen, David C., President, National Association of Regulatory Utility Commissioners United States
Lificiu, Petru, President, Romanian Energy Regulatory

Authority Romania
Mogg, Lord John Frederick, Chair, International
 Confederation of Energy Regulators
Novikov, Sergei G., Head, Federal Tariff Service Russia
Ortis, Alessandro, Chairman, Italian Regulatory Authority for
 Electricity and Gas, Italy

14:45 - 15:00	COFFEE BREAK	-
15:00 - 16:30	MINISTERIAL ROUND TABLE : TRANSITION TIMELINE TO A NEW ENERGY WORLD	Plenary
	To come	
	Chair: Paradis, Christian , Minister, Ministry of Natural Resources Canada	
	Participants: Wya, Nuhu Somo , Minister of State for Power, Government of Nigeria, Nigeria Shinde, Shri Sushilkumar , Minister of Power, Government of India, India Benkhadra, Amina , Minister of Energy, Mines, Water and the Environment, Government of Morocco, Morocco Yousfi, Youcef , Minister of Energy and Mines, Government of Algeria, Algeria	
15:00 - 16:15	Paper presentations To obtain final schedule of papers and posters presentations Click here	-
16:30 - 17:30	WEC MONTREAL 2010 DECLARATION AND CLOSING CEREMONY	Plenary
17:30 - 20:00	KOREA NIGHT PRESENTED BY THE WEC DAEGU 2013 ORGANIZING COMMITTEE	

15:30
Exhibition Closes

Program subject to change without prior notice

® "LIVING PLANET" is a WWF trade mark and is used with permission.