



Colorado School of Mines, Golden, USA November 7-8, 2013

Registration at: www.EnergyAfricaConference.com

DAY ONE THURSDAY, NOVEMBER 7	
All Day	Registration
7:30-8:30 PM	Breakfast/Networking Coffee
	Welcoming Remarks
8.00-9.00 AM	Session 1: Meeting Africa's Energy Needs By Leveraging the Synergy Between Gas and Renewable Energy Sources
Description	This session describes the vision for the conference. Gas and renewables are rapidly becoming significant factors in utility scale, industrial and urban grid connected applications. In small scale, off grid applications, renewable technologies such as photovoltaic systems and wind are having rapid and immediate impacts. Small scale biogas and liquid petroleum gas systems offer affordable and cleaner approaches to cooking. Micro grids and mini grids are emerging as an approach to combine multiple electric loads to meet essential needs in rural areas. Expansion of the utility grid serving urban and industrial will be required. Gas and renewables in combination promise a cost effective and sustainable approach to meeting Africa's future energy needs.
Moderator	To be announced
Panelists	To be announced
9.00-10.30 AM	Session 2- The Future for Sustainable Energy
Description	More than 50 countries have endorsed the goals of the UN's <i>Sustainable Energy for All</i> initiative. Throughout sub-Saharan Africa, there remain hundreds of millions of people who lack access to basic energy services – creating devastating social, environment, and economic repercussions. This session will discuss the roles that renewables and gaseous fuels can play in meeting the ambitious objectives of universal access to energy by 2030.
Moderator	Dr. Andrew Yager , Senior Advisor, Renewable Energy Advisory Services, NORPLAN
Panelists	Dr. Morgan Bazilian , Deputy Director, Joint Institute for Energy Analysis Dr. Youba Sokona , Special Advisor on Sustainable Development, South Center Dr. Ogunlade Davidson , former Minister of Energy and Water Resources, Sierra Leone Ms. Sheila Oparaocha , Coordinator of the ENERGIA International Network on Gender and Sustainable Energy

10.30-12.00 PM	Session 3- Transformation in the Utility Scale Energy Landscape- Renewables and Gas
Description	New large scale projects are emerging that illustrate how renewables (wind, solar, hydro, and geothermal) and gas can become a significant generation source for the utility grid. This session highlights the comparative attributes of utility scale natural gas and renewable generation assets, including risk profiles, development time frames, and economics. What policy contexts enable or constrain the development of these resources? How does the emerging availability of natural gas complement and compete with renewables?
Moderators	Heidi Vangenderen , Director, Public Engagement, US Department of Energy Dan Murphy , Manager, Lighting Africa Program, The World Bank
Panelists	To be announced
12.00-1.00PM	Luncheon
1.00-1.30PM	Luncheon Key Speaker: Ambassador Irene Giner-Reichl , Austrian Ambassador to China and Mongolia and President Global Forum on Sustainable Energy
1.30-3.00PM	Session 4- Small Scale Renewables-The Evolving Market and Business Opportunities
Description	Many companies are having significant success developing markets for small scale renewable applications. From photovoltaic systems to biogas to wind and energy efficient stoves, this segment is vibrant and growing. This session continues to follow the experiences of companies that are demonstrating that meeting energy needs in new and sustainable ways is good for business and for the growing numbers of customers served.
Moderator	Ravi Malhotra , President and Founder, iCAST
Panelists	Ron Bills - Chairman and CEO of Envirofit Steve Kosteros - CEO of Nokero Dr. Ogunlade Davidson , former Minister of Energy and Water Resources, Sierra Leone Additional panelists to be announced
3.00-5.00PM	Session 5- New Developments in African Natural Gas Supplies and Markets
Description	This session will highlight ongoing projects where natural gas development is changing the energy supply outlook in Africa. Companies are moving projects from exploration to development. Along with these projects come extensive political, social and economic changes in the countries and regions impacted. Balancing the project requirements for large scale market outlets while beginning the process of developing domestic market needs is particularly important. Through project examples, this session will illustrate how natural gas projects are opening new opportunities for economic development and to supply a significant portion of Africa's growing energy needs.
Moderators	Fred Julander , President, Julander Energy James J Emme , Executive Vice President, Endeavour Corporation
Panelists	Mufiu Sunmonu , Managing Director of the Shell Petroleum Development Company of Nigeria Limited (SPDC), Vice President Production (Sub Sahara Africa) Country Chair, Shell Companies in Nigeria. Andrew Cochran , Former CEO, Dominion Petroleum, Ltd Additional panelists to be announced
5.00-7:30 PM	Networking Reception

DAY TWO FRIDAY, NOVEMBER 8, 2013

All Day	Registration
7:30-8:30 PM	Breakfast/Networking Coffee
	Introductions
8.00-9.30 AM	Session 6-Micro Grid Power and Rural Electrification
Description	Micro grids (off-grid solutions) promise to be an ideal solution to Africa's energy access problems especially in rural areas where electricity supply may be limited or erratic. In urban areas where electricity transmission may be inefficient, micro grids could be integrated in the distribution system to serve critical infrastructures such as hospitals, water treatment plants and data centers during power outages. In addition renewable power sources, and the technology to control and produce "utility grade power" using renewable generation, is available in micro grids. The incorporation of renewables into a micro grid help these critical power users become green power users. This session will discuss the demonstrated and operational micro grids focusing on the lessons learned, challenges, and the role of micro grids in meeting rural electrification objectives.
Moderator	Brad Luyster , Vice President and General Manager, ABB
Panelists	Dr. Peter Lilienthal , CEO, HOMER Energy (confirmed) Dr. Spero Mensah , President & CEO at JEM Smart LLC (confirmed) Dr. Lawrence Jones , Vice President, Regulatory Affairs, Policy and Industry Relations, Astom Grid
9.30-11.00AM	Session 7-Energy Efficiency
Description	This is often a neglected sector in the energy discussion when it should be on the top of the list because it is the cheapest energy source of all. Energy Efficiency is also integral to many of the renewable energy applications such as solar water pumping (without an efficient pump, solar pumping is not feasible) or solar lanterns (without energy efficient LED lights that application falls apart). Efficiency is also a critical part of the cook stoves market.
Moderator	Ravi Malhotra , President and Founder, iCAST
Panelists	Dr. Francis D Yamba , Professor and Director, Center for Energy Environment and Engineering Dr. Andrew Yager , Senior Advisor, Renewable Energy Advisory Services, NORPLAN Additional panelists to be announced
11.00-12.00PM	Session 8-Capacity Building
Description	None of these developments will benefit Africans as much as they could if the local population had the education and training to execute on these projects themselves rather than depend on outsiders. The local population gaining the ability to design, develop, engineer, procure materials, and construct the energy projects will magnify the impact of these projects. Also, as has often been the case, well intentioned projects lie waste soon after the installers have gone back to their country due to lack of the ability of locals to properly maintain the operate them. Capacity building in the form of education and training in the relevant technical and business subject matter is critical to the long term sustainability of any efforts to bring energy access to all in Africa.

Moderator	Dr. Bruce Hutton , Professor Emeritus, Daniels College of Business, Denver University
Panelists	To be announced
12:00 -1:00 PM	Luncheon
1.00-1.30 PM	Luncheon Key Note Speaker: To be announced
1.30-2.45 PM	Session 9- The Role of Public and Private Partnerships in Achieving Universal Energy Access in Africa
Description	Africa's lofty goal of universal energy access is attainable only with the participation of different constituencies encompassing individuals, governments, nongovernmental organizations and the private sector. This session will focus on the role of partnerships such as the European-Africa agreement in achieving universal energy access.
Moderator	Dr. Luka Powanga , Professor, Regis University
Panelists	Christian Burgsmüller , counselor, EU Delegation to the United States Dr. Kenneth Jennings , Managing Director, K2J Environmental Additional panelists to be announced
2.45-4.00 PM	Session 10-Investment Risk in Energy Development Projects
Description	Whether working in developing or developed countries, companies must consider a variety of risks that could potentially undermine their investments. Political risks encompass governmental, economic, social, resource, and security risks. For example, companies may be vulnerable to nationalization, changes in government, local protests, ethnic conflict, health risks for their employees, high crime rates, water scarcity due to climate change, and local or international terrorist attacks. This panel considers what types of risks companies might face when engaging in energy projects in Africa, ways to mitigate these risks, and types of risk insurance available to businesses.
Moderator	Dr. Kathleen Hancock , Associate Professor, Colorado School of Mines
Panelists	Additional panelists to be announced
4.00-5.15 PM	Session 11-Energy Policy and Leadership
Description	As a new generation of leaders emerges in many African countries, it is important they are getting access to information on the opportunities that renewables and gas together offer for energy and economic development. This session will be a dialogue between current and new leaders to discuss how to further this agenda.
Moderator	To be announced
Panelists	Michael E. McKelvy , President and Division Chief Executive, Government, Environment and Infrastructure Division, Ch2MHill Panelists to be announced
5.15- 5:20 PM	Closing Remarks