
National Capital Area Chapter

United States Association for
Energy Economics
January 2004

www.ncac-usaee.org

news

Energy Projects in Emerging Markets: Boon or Bust?

NCAC's Annual Dinner Presentation

WHEN: 7:00 p.m., Tuesday, January 27, following reception beginning at 6:00 p.m.

WHERE: George Washington University Club
1918 F Street NW, Washington, DC
Near Farragut West or Foggy Bottom metro stops; parking on street

SPEAKER: Rashad-Rudolf Kaldany, International Finance Corporation/World Bank

An increasing share of energy resources will be sourced from emerging markets in the coming decades. However, emerging markets have had a mixed record turning the revenues derived from the exploitation of their resources into lasting developmental benefit. As a consequence, there has been an increasing questioning of the value of developing these resources. Can the International Finance Corporation and the World Bank play a role in ensuring that such development does take place in a developmentally sustainable way and, if so, how?

Rashad-Rudolf Kaldany is the Director of the Oil, Gas, Mining & Chemical department, a joint department of the International Finance Corporation (IFC) and the World Bank. With a Ph.D. from Columbia University and an MBA from Stanford University, Mr. Kaldany has enjoyed a long and distinguished career shepherding investments in the Third World. He joined the IFC in 1988 and has developed extensive investment experience in West Africa, the Middle East, Southeast Asia and India. From 1992 to 1994 he was Special Assistant to IFC Executive Vice Presidents Sir William Ryrie and Mr. Jannik Linkbaek. After serving as Director, South and Southeast Asia department in New Delhi, India, Mr. Kaldany returned to headquarters in 2000 to become Director of the Oil, Gas & Chemicals department, a joint department of the IFC and the World Bank, which merged with the Mining Department in July 2002.

Join us on Tuesday, January 27, at 6:00 pm for networking, with dinner served at 7:00 p.m. A cash bar will be available during the reception.

COST: \$45.00 for members and their guests (\$25.00 for student members) and \$55.00 for non-members and their guests. Make checks payable to NCAC-USAEE. **RSVP:** By COB Thursday, January 22 to Leslie Coleman by phone (202/463-9780) or email (lcoleman@nma.org). Cancellations after noon Friday will be billed.

Highlights of the December Lunch

SPEAKER: Michael Stavy, Consulting Energy Economist

Worksheets for Computing the Levelized Cost and Carbon Content of Hydrogen for Vehicle Fuel

Michael Stavy, an independent consultant and energy economist from Chicago, focused his presentation on a set of worksheets he has put together for computing the cost and carbon content of hydrogen vehicle fuel (HVF).

Stavy walked the audience through his worksheet, discussing specific entries, assumptions, and worksheet structure. He emphasized that the point was not to argue over assumptions such as the assumed price of gasoline or average carbon content of grid electricity, because the worksheet is designed to enable easy replacement with alternative assumptions. For example, one might want to assume a higher or lower price for gasoline, or the average carbon content of grid electricity might be different in a specific country or region – a country with more nuclear generation like France would have a relatively lower average carbon content for grid electricity.

Currently, isolated hydrogen, which does not exist in commercial amounts in nature, is used not so much as a fuel, but for industrial processes including oil refining and power plant cooling. Common metrics for industrially-consumed hydrogen include mass (pounds or kilograms), energy content (British thermal units or Joules), and volume (cubic feet). However, Stavy calculated cost in a per gallon format to facilitate comparison amongst alternative vehicle fuels. He noted that autos produce approximately one-third of carbon emissions in the U.S.

Stavy explained that his worksheets assume that hydrogen is produced by electric hydrolizer technology. His worksheets compare the cost of the hydrogen from a wind-powered hydrolizer with one that uses grid electricity. He assumed a 25-year lifespan for electric hydrolizers and suggested that reducing the cost of hydrolizers is key to hydrogen competing as a vehicle fuel. Stavy assumed that the wind-powered hydrolizer was not grid-connected and had only a 35% capacity factor compared to a 100% capacity factor for a grid-connected hydrolizer (i.e., wind power availability is more limited than grid electricity).

Audience members suggested one might purchase renewable (carbon-free) power from a grid ('green power') and noted that this scenario might be more interesting. This led to an active Q&A session that concluded the presentation.

Historic Records of NCAC

Leslie Coleman, with Adam Sieminski's help, is attempting to document NCAC's organizational history, to be included on our web site. We now have the names of Officers and Council Members from 1978 to the present time, with some noticeable gaps. We need to fill in names for the years 1992, 1994 and 1995. Perhaps some of our long-time members could help!

2003 OFFICERS and COUNCIL MEMBERS

Name	Phone	Fax	E-Mail
Sarah McKinley President	202-502-8368 Federal Energy Regulatory Commission	202-208-0500	sarah.mckinley@ferc.gov
Ron Planting Vice President	202-682-8509 American Petroleum Institute	202-962-4730	Planting@api.org
Sara Banaszak Secretary	202-721-0302 or 872-1199 PFC Energy	202-872-1219	sbanaszak@pfcenergy.com
Leslie Coleman Treasurer	202-463-9780 National Mining Association	202-463-2614	lcoleman@nma.org
David South Immediate Past Pres.	703-690-2737 Technology & Market Solutions, LLC	703-690-2736	david@t-msolutions.com
Stephanie Battles	202-586-7237 Energy Information Administration	202-586-0018	stephanie.battles@eia.doe.gov
John Felmy	202-682-8530 American Petroleum Institute	202-682-8408	felmyj@api.org
John Jimison	202-728-9049 Attorney-at-Law	202-544-0043	john@jwj-llc.com
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Cyndy Wilson	202-502-8941 Federal Energy Regulatory Commission.		Cynthia.Wilson@ferc.gov

2003 MEMBERSHIP RENEWAL/REGISTRATION FORM

National Capital Area Chapter U.S. Association for Energy Economics

- Please check here for membership renewal.
- Please check here for new membership registration.
- Please check here for student membership registration.

Membership registration/renewal for the NCAC/USAEE is expected by the end of the preceding calendar year.

Please return your registration form and check to **Leslie Coleman**—NCAC/USAEE 2003 Treasurer at: **National Mining Association, 101 Constitution Ave., Suite 500 East, NW, Washington, DC 20001**. Phone: 202/463-9780. Email: lcoleman@nma.org.

Full membership dues for 2003 are \$20.00 (students \$10.00). Please make checks payable to NCAC/USAEE.

Please print very clearly.

NAME _____

TITLE _____

ORGANIZATION _____

MAILING ADDRESS * _____

TELEPHONE NUMBER _____

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E-MAIL ADDRESS ** _____

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