









OUR ENERGY FUTURE: THE POWER OF PARTNERSHIPS IN AMERICA AND SCOTLAND

Scotland-Tartan Week Friday, April 5, 2013

Hosted by Bank of America, One Bryant Park, New York City



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New York Power



March 21st, 2013

Scotland has an incredible wealth of energy resources from a range of generating technologies, capable of both meeting our energy needs and significant exports to parts of the UK and Europe.

The Scottish Government has shown we are committed to helping our wave and tidal industry retain its global lead. We have demonstrated the political will, we have set the world's most ambitious climate change and renewable energy targets; we have developed the supportive policies; we have provided the capital support that is essential to leverage private sector investment.

We are delighted that the Green Investment Bank has its headquarters in Edinburgh. Edinburgh is the only location to bring together both finance and the clean energy industry in a single location, and has an unrivalled concentration of industry skills and experience. We will continue to work with partners to channel investment into low carbon projects to move the sector onto a strong commercial footing.

Fergus Ewing MSP

Minister for Energy, Enterprise and Tourism

The Scottish Government

Our Energy Future: The Power of Partnerships in America and Scotland Friday, April 5, 2013

Morning Keynote... In Conversation...

11:50 AM

Scotland's Energy Future: The Opportunities and the Challenges... Keith Aitken talks to...

**Bruce Crawford MSP**, Member of The Scottish Parliament, former Cabinet Secretary for Parliamentary Business and Government Strategy, The Scottish Government

**Duncan McNeil MSP**, Member of The Scottish Parliament, Convenor of The Scottish Parliament's Health and Sport Committee



Bruce Crawford MSP is a Member of The Scottish Parliament. Bruce has been an MSP since 1999, and was formerly the Minister for Parliamentary Business in the first SNP Scottish Government (2007-11), then Cabinet Secretary for Parliamentary Business and Government Strategy following the 2011 election in the first majority Scottish Government. He retired from the Scottish Cabinet in September 2012, and has since become Convenor of the new Referendum (Scotland) Bill Committee. Before being elected as an MSP, Bruce had a varied career from a civil servant in the Scottish Office to the Leader of Perth and Kinross Council.



**Duncan McNeil MSP** is a Member of The Scottish Parliament. Duncan McNeil was elected to the Scottish Parliament from the Greenock and Inverclyde constituency in May 1999 where he went to serve on the Enterprise & Lifelong Learning Committee, became Labour's Chief Whip and was elected to the Scottish Parliamentary Corporate Body (SPCB). Following his re-election in May 2003, Mr McNeil left the Whips' Office to take up the position of Chair of the Scottish Parliamentary Labour Party (SPLP) and serve as a member of the Health Committee. He was re-elected as MSP for Greenock and Inverclyde in May 2011. He is currently Convenor of The Scottish Parliament's Health and Sport Committee.



**Keith Aitken** is an award-winning journalist, author, broadcaster, and conference moderator. He worked for more than 15 years on *The Scotsman* newspaper in senior editorial roles, including parliamentary correspondent, labour correspondent, industrial editor, economics editor and chief leader-writer. Since turning freelance in 1995, Keith has been a regular columnist and contributor to numerous newspapers and magazines in the UK and overseas including *The Herald, Scotland on Sunday, Holyrood Magazine, Scottish Life*, and the *Scottish Daily Express* for which he writes a weekly column and reviews opera. He is also Scotland Correspondent for *Public Finance* magazine. As a broadcaster, Keith has presented BBC Scotland's *Head Lines* and *Newsweek Scotland*, and documentaries for BBC Scotland, BBC Radio Four and the BBC World Service. Keith is a visiting lecturer at Edinburgh Napier University, and a Trustee of the National Mining Museum of Scotland.

# Our Energy Future: The Power of Partnerships in America and Scotland Friday, April 5, 2013

#### **Morning Program** (subject to change without prior notice)

9:00 AM Registration and Refreshments

9:30 AM Welcome

Heather L. Bain, Chair, American-Scottish Foundation

9:35 AM **Introduction** 

Keith Aitken, Moderator

#### 9:40 AM **Funding the Future**

UK Green Investment Bank is headquartered in Edinburgh, Scotland, and is the first of its kind in the world.

How do you build a green bank?

What will it deliver for the UK and Scottish green economy?

What is the emerging investment climate for renewables and clean-tech in the US? Where are the opportunities for venture capitalists, private equity and hedge funds?

John A. Cavalier, Co-Managing Partner, Hudson Clean Energy Partners Rob Cormie, Group Operations Director, UK Green Investment Bank Olivia Fussell, President, Carbon Credit Capital US Ray Wood, Managing Director; Investment, Global Power & Renewables, Bank of America Merrill Lynch

#### 10:30 AM **De-Risking Renewables**

How can we de-risk investment around renewables?

How can we build appropriate globally recognized benchmarks to inform financial modeling?

**Faiz Ahmad**, Director; Corporate Finance, Bank of America Merrill Lynch **Ray Wood**, Managing Director; Investment, Global Power & Renewables, Bank of America Merrill Lynch

Ken Donnelly, Director; Global Markets Risk, Bank of America

11:00 AM Morning Break

#### 11: 20 AM Re-Energizing America

What are critical clean-tech and renewables energy issues facing the US Administration as it journeys through its second term?

**Carl Arnold**, Vice Chair; Sierra Club Atlantic Chapter (NY State) **Ed Crooks**, US Energy and Industry Editor, Financial Times **Ethan Zindler**, Head of Policy Analysis, Bloomberg New Energy Finance

#### 11:50 AM In Conversation...

Scotland's Energy Future: The Opportunities and the Challenges...

Keith Aitken talks to...

**Bruce Crawford MSP**, Member of The Scottish Parliament (MSP), former Cabinet Secretary for Parliamentary Business and Government Strategy, The Scottish Government

**Duncan McNeil MSP**, Member of The Scottish Parliament, Convenor of the Scottish Parliament's Health and Sport Committee

#### 12:15 PM **Offshore Renewables**

Offshore Wind has been hailed as one of the most viable forms of renewable energy. But what is the economic potential for offshore wind in America? What can Scotland and the UK share on building engagement between industry and government? What are the alternatives to offshore wind?

**Calum Davidson**, Director of Energy and Low Carbon, Highlands and Islands Enterprise **Bob Mitchell**, CEO, Atlantic Wind Connection, LLC **Khalil Shalabi**, Chief Technology Officer, New York Power Authority (NYPA) **Jim Tolan**, President, SgurrEnergy, LLC **Alla Weinstein**, President and CEO, Principle Power

#### 1:00-2:10 PM Networking Lunch

1:30-1:50 PM: Presentation by **Jean Savitsky**, managing director at Jones Lang LaSalle, on The Bank of America Tower, One Bryant Park

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#### **Speakers**



**Faiz Ahmad** is a Managing Director and Head of Global Commodities Origination, Sales and Structuring for Bank of America Merrill Lynch Commodities across both Corporate and Institutional Clients. Faiz joined Merrill Lynch & Co. in 1996, and worked in the Leveraged Finance and Mergers & Acquisitions groups, focusing on natural resources. He has spent the last 10 years specializing in originating and structuring commodities driven transactions across Power, Natural Gas, Metals and Mining, Crude and Refined Products as well as Commodity-Linked Credit.



**Carl Arnold** is Vice Chair of the Sierra Club Atlantic Chapter (NY State), serving on the chapter's Executive Committee as well as its Gas Drilling Task Force. He has lobbied in Albany and New York City, written articles, participated in numerous radio and cable talk shows, and organized forums and screenings to educate the public about hydraulic fracturing. Carl is also a member of the Green Party. Carl works as a freelance editor.



**John Cavalier** is Co-Managing Partner of Hudson Clean Energy Partners. He was formerly Vice Chairman of Credit Suisse's Investment Banking division, Chairman of the Energy Group and Head of Credit Suisse's Global Renewable Energy efforts. Under Mr. Cavalier's leadership, the Renewables Energy Group has become Wall Street's leading Finance and Advisory Group to the Alternative Energy space. The Group has played a principal role in the initial public offerings of SunPower, Suntech, REC, Cosan, First Solar, EnerNOC, Iberdrola and financings for Airtricity, FPL Wind, Hawkeye, and many other major solar, wind and biofuel companies. John Cavalier served in the U.S. Army for nine years where he was an officer in the Signal Corps, and the Judge Advocate Generals Corps. He was awarded the Meritorious Service Medal for his role as the first Senior Defense Counsel for the Northeastern United States.



**Rob Cormie** is the Group Operations Director at the UK Green Investment Bank. Rob has been acting as an adviser or lender to the energy sector for over 17 years. He has advised on some of the largest UK and European renewable projects and has been at the forefront of building the sector within Scotland. He has a dual role at the GIB, being both Group Operations Director and leading the origination efforts within Scotland. Prior to joining the GIB he was a board member of Quayle Munro plc, a partner at KPMG and a utilities banker at CIBC World Markets.



**Ed Crooks** is US Energy and Industry Editor, Financial Times. Ed joined the FT in 1999 as economics editor, and went on to become UK news editor and energy editor. A former economics correspondent for the BBC, he was editor of Investors Chronicle and an economic analyst for the Institute for Fiscal Studies.



**Calum Davidson** is the Director of Energy and Low Carbon at Highlands and Islands Enterprise, the Scottish Government's economic and community development agency for the north and north-west of Scotland. Calum has a background in regional policy, technology development, knowledge transfer, innovation, inward investment, project development and infrastructure and venture investment.

He is a member of the Scottish First Minister's Energy Advisory Board, and leads a team focussed on meeting the infrastructure, policy and supply chain needs of the rapidly developing Scottish Deepwater Off-shore wind industry, and Scotland's world leading wave and tidal sector.















**Olivia Fussell** is president of Carbon Credit Capital, a company focused on investment advisory in renewable energy projects. She is also the founder of CINCS LLC, a technology company specializing in natural resource risk. Olivia is an energy and environmental leader with a history of dedication and insight on global environmental policy and finance, carbon finance and sustainability.

**Bob Mitchell** serves as CEO of Atlantic Wind Connection (AWC), LLC, the visionary and transformative subsea transmission backbone that will enable large-scale development of the Mid-Atlantic region's vast offshore wind energy potential. The AWC will enable 7,000 mw of offshore wind to be delivered to New Jersey, Delaware, Maryland and Virginia. Bob continues serving as CEO of Trans-Elect, America's first independent transmission company that he pioneered with its formation in 1999. Mitchell comes to the electric industry with a diverse background. He served as Chief of Staff to a US Senator, was a Presidential appointee to the US Department of Agriculture and served in the Governor's cabinet in Michigan. He initiated and founded the bi-partisan Political Leadership Program at Michigan State University in 1992 that has trained nearly a thousand people to serve more effectively in public office.

**Khalil Shalabi** is the Chief Technology Officer at the New York Power Authority (NYPA). Khalil manages NYPA's Research and Development activities and spearheads all innovation projects within the Authority. These projects can be generated internally to satisfy the needs of NYPA's generation and transmission assets or through research sponsored by the Electric Power Research Institute (EPRI). Khalil is also responsible for developing and 700 MW offshore wind project off the coast of Long Island and NYC, and also served as Director of Power Resource Planning and Acquisition (PRPA). Before joining NYPA, Khalil was a Senior Consultant at MCR Performance Solutions, and worked for Con Edison.

**Jim Tolan** is the President of US Operations for Sgurr Energy, Inc. based in Portland, Maine. SgurrEnergy is a global renewable energy consulting firm, headquartered in Glasgow, Scotland. A graduate of the U.S. Merchant Marine Academy at Kings Point, NY, Jim's career has included marine engineering and naval ship design, land based combined cycle power and cogeneration power projects, and more recently renewable energy. Jim successfully managed the development and construction of the San Cristobal Wind Project in the Galapagos Islands. Jim's current assignments include the role of Technical Advisor to the Cape Wind Project.

**Alla Weinstein** is a co-founder, CEO and President of Principle Power Inc., a technology company that provides deep-water offshore wind solutions with its patent floating support structure, the WindFloat. Prior to starting Principle Power, Alla was the co-founder and CEO of AquaEnergy Group (AEG), a company that successfully developed a wave energy conversion technology. Alla has over 30 years' experience building global engineering projects for multinational companies like Honeywell and Boeing. She was a founder and the first President of the European Ocean Energy Association.

**Ray Wood** is a Managing Director and Head of the Power and Renewables Group at Bank of America Merrill Lynch. He leads coverage teams across a variety of client sectors including regulated utilities, independent power, alternative energy and private equity sponsors. Over Wood's 20-year career, he has assisted clients on noteworthy strategic transactions and financings, a number of which have been named 'Deal of the Year'. He has transaction expertise across the spectrum of mergers and acquisitions, initial public offerings, leveraged finance, structured finance, commodities and privatizations.

**Ethan Zindler** is Head of Policy Analysis at Bloomberg New Energy Finance, the world's leading provider of data, research, and news on the clean and low-carbon energy sector. Zindler is charged with managing and expanding BNEF's coverage of key policy developments around the globe impacting renewables, biofuels, and energy efficiency. He oversees BNEF research in the Americas.

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Afternoon Keynotes... In Conversation... Keith Aitken talks to...

2:10 PM
The Power of Leadership
Francis J. Murray, Jr., President and CEO of NYSERDA

3:15 PM
Green is GREAT
Lord Marland of Odstock, British Prime Minister's Trade Envoy, and a former UK Energy Minister



**Francis J. Murray, Jr.** was appointed President and CEO of NYSERDA in 2009. Prior to his appointment, Frank served as Senior Advisor at the international environmental consulting firm Ecology and Environment, Inc. He was previously a policy advisor to the United States Secretary of Energy, assisting in the development of the Clinton Administration's national energy policy. In the early 90s, Frank served as the New York State Commissioner of Energy and Chairman of the NYSERDA Board of Directors. He also served as Chairman of the State Energy Planning Board, a multi-agency statutory board charged with the responsibility of developing a comprehensive energy plan for the State that integrated State energy, environmental and economic development policies.

In 1985, Frank was appointed Deputy Secretary to Governor Cuomo for Energy and the Environment, a position he held until 1992. He represented New York in numerous national and regional energy and environmental activities, including the Coalition of Northeastern Governors, the National Governors' Association, and the Council of Great Lakes Governors. Frank began his work on New York State energy issues as legislative counsel and then as an energy and environmental policy advisor to Governor Hugh Carey.



**Lord Marland of Odstock** is Chairman of the British Prime Minister's Trade Envoys Network and also the Business Ambassadors Network, both UK Government run programmes designed to assist UK companies and develop commercial opportunities. Outside of politics, Lord Marland was one of the founding directors of Jardine Lloyd Thomson plc, a multinational insurance business and also founded the Jubilee insurance company at Lloyd's of London.

He led the acquisitions of Hunter Wellington Boots, Insurance Capital Partners, Janspeed Performance Ltd and Wisden Cricketer Magazine. He is Chairman of Tickets for Troops and the Churchill Society, Trustee of Peggy Guggenheim (UK), The Harnham Watermeadows Trust and Atlantic Partnerships. Lord Jonathan Marland was awarded a life peerage in 2006 as Baron Marland of Odstock.

# Our Energy Future: The Power of Partnerships in America and Scotland Friday, April 5, 2013

**Afternoon Program** (subject to change without prior notice)

2:10 PM *In Conversation...* The Power of Leadership...

Keith Aitken talks to...

**Francis J. Murray, Jr.**, President and CEO, New York State Energy Research and Development Authority (NYSERDA)

2:30 PM **Sustainable Cities** 

How do we build low carbon cities for the future? How will stronger partnerships between clients, architects and engineers help deliver sustainability for our cities?

**Dr Don McLean**, Managing Director, Integrated Environmental Solutions (IES) **Andrew Whalley**, Deputy Chairman, Grimshaw Architects **Jonathan Wimpenny**, President, RIBA-USA

3:15 PM In Conversation... Green is GREAT...

Keith Aitken talks to...

**Lord Marland of Odstock**, British Prime Minister's Trade Envoy Introduced by **M. Douglas Dunn**, President, Dunn Consulting Group

3:45 PM Afternoon Break

4:00 PM **Next Generation** 

How can partnerships between policy leaders, industry and universities shape green energy research and education in Scotland and America?

**Dr. Andy Kerr**, Director, Edinburgh Centre for Carbon Innovation, University of Edinburgh **Dr. Constantine E. Kontokosta**, Deputy Director, Center for Urban Science & Progress, Director of the Center for Sustainable Built Environment, New York University **Professor Klaus S. Lackner**, Director, Lenfest Center for Sustainable Energy, The Earth Institute, Columbia University **Olivia Fussell**, President, Carbon Credit Capital US

4:45 PM What happens next?

Where do we go from here? Five ideas from Our Energy Future: The Power of Partnerships in America and Scotland

Keith Aitken, moderator

Pete Grannis, First Deputy Comptroller, State of New York

5:00 PM Networking Opportunity

6:00 PM Departures

Our Energy Future: The Power of Partnerships in America and Scotland Friday, April 5, 2013

#### **Speakers**



**M. Douglas Dunn** is the President of Dunn Consulting Group LLC, a management consulting company he founded in 2009. In addition to CFSD, Dunn serves as member of the Board of Directors of Greenleaf Power, a Denham Capital portfolio company. He is a former member of the Gotham Equity Partners Operating Board, a former Partner and Co-Chair of the Global Energy Group of Milbank, Tweed, Hadley & McCloy LLP (from 1985-2008), Managing Director of Lehman Brothers (from 1984-1985), and Associate, Partner and member of the Management Committee at Winthrop, Stimson, Putnam & Roberts from 1970-1983.



**Pete Grannis** is the First Deputy Comptroller at the New York State Office of the State Comptroller (OSC). Before his appointment at OSC in 2011 he served as Commissioner of the New York State Department of Environmental Conservation (DEC) from 2007 to 2010. During his years at DEC he also served as the Chairman of the Board of Directors for the ten state Regional Greenhouse Gas Initiative, Inc. (RGGI), the nation's first market-based regulatory program to reduce CO2 emissions from the power sector. Prior to that he served 32 years in the New York State Assembly where he held a number of leadership posts.



**Dr. Andy Kerr** was appointed Executive Director of the Edinburgh Centre for Carbon Innovation (ECCI), a low carbon business innovation and skills centre, in 2010. He is also the Policy Director of the Scottish Centre of Expertise in Climate Change, established to improve knowledge flows between research institutions and government. Previously, Andy worked in the private sector, trading carbon and energy and developing projects in the emerging international energy and carbon markets.



**Dr. Constantine E. Kontokosta**, PE is the Deputy Director of the New York University Center for Urban Science and Progress (CUSP), founding Director of the NYU Center for the Sustainable Built Environment, and an adjunct associate professor at the Wagner School of Public Service. He serves on the board of the Royal Institution of Chartered Surveyors and the Urban Systems Collaborative, and has served on the boards of a number of sustainable leadership organisations including the UNEP Sustainable Buildings and Climate Initiative, NYC Urban Technology and Innovation Center, NYC City Council METS program for green building technologies, and the Suffolk County (NY) Planning Commission. Dr. Kontokosta is a licensed Professional Engineer, a member of the American Institute of Certified Planners, a USGBC LEED Accredited Professional, a Fellow of the RICS, and a Fulbright Senior Specialist.



**Klaus Lackner** is the Ewing Worzel Professor of Geophysics at Columbia University, where he is also the Director of the Lenfest Center for Sustainable Energy at The Earth Institute at Columbia. Lackner earned his Ph.D. in theoretical particle physics, summa cum laude, in 1978 from Heidelberg University. He was a lead author in the IPCC Report on Carbon Capture and Storage and received the Weapons Recognition of Excellence Award in 1991. His current research interests include carbon capture and sequestration, air capture, energy systems and scaling, energy and environmental policy, lifecycle analysis, and zero emission modeling for coal and cement plants.



**Dr. Don McLean** founded Integrated Environmental Solutions (IES) in 1994 order to develop the Virtual Environment suite of integrated building design and simulation tools. He has over 25 years experience in the use and development of building simulation software and also spent two years as a Building Services Engineer at Balfour Kilpatrick. His experiences developing and applying building simulation programs combined with his knowledge of Environmental Engineering and his experience with architects gave him a unique understanding of how building performance tools can significantly improve the building design process. His main areas of expertise lie in the development and application of building simulation software to facilitate an integrated and sustainable design process.



**Jean Savitsky** is a managing director with Jones Lang LaSalle's Project and Development Services group in New York, and acted as the project director for the construction of Bank of America Tower at One Bryant Park. She is also the leader of the PDS team's sustainability practice, developing and promoting green construction and real estate practices to the firm's clients. She is involved with WX, Women Executives in Real Estate, and with the New York Chapter of the U.S. Green Building Council.



**Andrew Whalley AIA RIBA** is Deputy Chairman at Grimshaw Architects and represents the Chairman's Office for all international projects. His award-winning architectural projects include the Eden Project in Cornwall, England, the redevelopment of the historic Paddington Station in London and the Experimental Media and Performing Arts Center in New York. Andrew has been with Grimshaw since 1986, and works closely with the Chairman Sir Nicholas Grimshaw to cultivate relationships with clients, media and institutions worldwide. Andrew has taught at the Royal College of Art, Architectural Association, University College London and was a visiting Professor at Washington University.



Jonathan B. Wimpenny AIA RIBA is President of the Royal Institute of British Architects (RIBA) USA. His early training at the Architectural Association, London, and professional work in restoration in England (Covent Garden for Levitt Bernstein and Old Grove House for Ridley Scott) led to work in Italy, teaching at the Architectural Association and at the University of Udine, Venice. Work in the United States began in the 1980s with Ove Arup and Beyer Blinder Belle (Enid Haupt Conservatory, New York) and as architect for interior designers John Stefanides, Colefax & Fowler (London), and JP Molyneux (New York). He began his own New York practice, Lee Wimpenny Inc., in 1992 with a commission for the restoration of 67 Wall Street -Dresdner Bank. Other commercial clients have included Home Box Office, Reuters, Chopard, Cipriani (NY) as well as many private residential clients in the United States and Europe.

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Notes:





### Why the UK?

As an innovative and entrepreneurial US business considering international expansion (or expanding your global footprint), the UK provides an ideal base of operation for international growth. With London's place as the world's premier business center, the UK remains a GREAT gateway to Europe, and a perfect global springboard.

### Why UK Trade & Investment (UKTI)?

UKTI is the international business development agency of the UK Government. We provide confidential and complimentary services for US companies looking to grow their global business.



For more information on how UKTI can help you grow your global business, please contact:

Rebecca Lewis | Vice Consul - Energy & Environment | Rebecca.Lewis@fco.gov.uk













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