

INTERNATIONAL LAUNCH OF THE CENTER ON GLOBAL ENERGY POLICY

Thursday, June 6, 2013
Simpson's-in-the-Strand
London, England



THE CENTER ON GLOBAL ENERGY POLICY

We are at a transformational moment in energy history: new technologies are unlocking vast new resources in North America and elsewhere around the world; the changing energy landscape is reshaping geostrategic and economic relationships and advantages; climate change impacts are projected to be felt more frequently and severely. The Center on Global Energy Policy provides independent, balanced, data-driven analysis to help policymakers navigate the complex world of energy. We approach energy as an economic, security, and environmental concern. And we draw on the resources of a world-class institution, faculty with real-world experience, and a location in the world's finance and media capital.

THE SCHOOL OF INTERNATIONAL AND PUBLIC AFFAIRS (SIPA)

SIPA's mission is to empower people to serve the global public interest. Our goal is to foster economic growth, sustainable development, social progress, and democratic governance by educating public policy professionals, producing policy-related research, and conveying the results to the world. Based in New York City, with a student body that is 50 percent international and educational partners in cities around the world, SIPA is the most global of public policy schools. For more information, please visit www.sipa.columbia.edu.

COLUMBIA UNIVERSITY

A leading academic and research university, Columbia continually seeks to advance the frontiers of knowledge and to foster a campus community deeply engaged in understanding and addressing the complex global issues of our time. Columbia's extensive public service initiatives, cultural collaborations, and community partnerships help define the University's underlying values and mission to educate students to be both leading scholars and informed, engaged citizens. Founded in 1754 as King's College, Columbia University in the City of New York is the fifth oldest institution of higher learning in the United States.

FROM THE DEAN

On behalf of Columbia University's School of International and Public Affairs (SIPA), I am pleased to welcome you to the international launch of the Center on Global Energy Policy. Led by founding director Jason Bordoff, the Center is quickly becoming central to Columbia and SIPA's intellectual life. The Center has already held several key events and has announced its first three fellows: David Sandalow, former undersecretary (acting) of energy and assistant secretary for policy and international affairs; Nobuo Tanaka, former executive director of the International Energy Agency; and José Sergio Gabrielli de Azevedo, former chief executive officer of Petrobras.

The Center embodies SIPA's commitment to innovative teaching, research, and engagement in global public policy. Energy lies at the nexus of many of the world's most urgent and complex policy challenges, and we believe that there is no better place than SIPA for these necessary research and policy initiatives to begin. SIPA is the world's most global public policy school, with a student body that is nearly 50 percent international. Our teaching and research focus on critical global policy areas: human rights, international finance and economic policy, economic and political development, security, urban and social policy, and, of course, energy and the environment. SIPA is also home to eight international, issue-based centers or institutes, and we are delighted to launch the Center on Global Energy Policy as one of our most significant efforts.

Through our location in New York, SIPA is well positioned to convene key players from the academic, policy, and business world. We expect today's conference to be one of the first of many events that inspire conversation and pioneer ideas in the global energy policy arena.

We welcome guests to listen, ask questions, and explore with us what policies can and should most effectively address the energy issues facing our world today.

Sincerely,

Merit E. Janow

Dean (designate), School of International and Public Affairs

Professor of Professional Practice, International Economic Law & International Affairs

Columbia University

FROM THE DIRECTOR

Welcome to the international launch of the Center on Global Energy Policy. It is my pleasure to share this day with you as we build a new policy-oriented research center to help policymakers navigate the complex and rapidly changing world of energy through balanced and rigorous analysis.

The world is facing a transformational moment in energy history. New technologies are unlocking vast resources that create new economic and geopolitical opportunities, and global patterns of energy supply, demand, and trade are changing rapidly. Meanwhile, the cost of clean energy technologies continues to fall, deployment of renewables is accelerating, and the impact of climate change is predicted to be felt more frequently and severely.

The vast changes we are experiencing with our energy system must be matched by changes in our energy policy. Decision makers will increasingly be required to consider new policy questions that were difficult to imagine just a few years ago. Moreover, those who are implementing energy policies, no matter what country they hail from, must balance potentially competing economic, security, and environmental considerations.

The choices we make in the coming years will be of profound importance in balancing these multiple objectives. Smart policies will be key to meeting the defining challenge of the next generation—how to sustainably provide billions of people with reliable, affordable, secure access to energy.

The Center on Global Energy Policy is committed to informing those choices with the kind of independent and balanced analysis that all too often is missing in public debate, developed so as to maximize real-world impact with concrete, specific, and practical policy recommendations.

Thank you for joining us today. I hope you will find the Center's work valuable and enriching, and I look forward to your continued involvement in our work to explain how we can, collectively, meet the challenges and realize opportunities presented by today's new energy landscape.

Sincerely,

Jason Bordoff

Professor of Professional Practice in International and Public Affairs
Director, Center on Global Energy Policy

INTERNATIONAL LAUNCH OF THE CENTER ON GLOBAL ENERGY POLICY

**Simpson's-in-the-Strand
London, England
Thursday, June 6, 2013**

Welcoming Remarks

*Jason Bordoff, Professor of Professional Practice in International and Public Affairs,
SIPA; Director, Center on Global Energy Policy*

Keynote Remarks

*Rt. Hon. Michael Fallon, MP, Minister of State for Energy,
UK Department of Energy and Climate Change*

Followed by a Conversation with Jason Bordoff

Presentation of Current Energy Market Trends

Christof Rühl, Group Chief Economist, BP

Roundtable: Current Issues in Global Energy Markets

Moderator: *Javier Blas, Commodities Editor, Financial Times*

*Nick Butler, Visiting Fellow and Chair of King's Policy Institute,
King's College London*

*Michael Liebreich, Chief Executive, Bloomberg New Energy Finance
Christof Rühl*

Roundtable: Meeting Our Energy Policy Challenges

Moderator: Jason Bordoff

David Hobbs, Head of Research,

King Abdullah Petroleum Studies and Research Center

David Sandalow, Inaugural Fellow, Center on Global Energy Policy

Nobuo Tanaka, Non-resident Fellow, Center on Global Energy Policy

Closing Remarks

Jason Bordoff



JAVIER BLAS

Commodities Editor, *Financial Times*

Javier Blas was appointed commodities editor for the *Financial Times* in September 2010; he was previously the commodities correspondent. He covers the price of natural resources such as crude oil, copper, wheat, or coffee, and the political, economic, and social implications of commodities.

Previously, Mr. Blas reported on international economics, focusing on OPEC, oil markets, and the impact of oil prices on the economy for both the *Financial Times* and the Spanish business daily, *Expansion*. He has reported on these subjects since 1999.

Mr. Blas was born in Spain and studied journalism at the University of Navarra, Spain, as well as political communication at Sheffield University. He is fluent in English, Spanish, and French.

Mr. Blas has won several journalism awards for his coverage of oil and frequently appears on national and international TV and radio.



JASON BORDOFF

Professor of Professional Practice in
International and Public Affairs

Director, Center on Global Energy Policy

Jason Bordoff joined the Columbia faculty after serving until January 2013 as special assistant to the president and senior director for energy and climate change on the staff of the National Security Council, and, prior to that, holding senior policy positions on the White House's National Economic Council and Council on Environmental Quality. One of the nation's top energy policy experts, Professor Bordoff joined the administration in April 2009. At Columbia's School of International and Public Affairs, Professor Bordoff is a professor of professional practice and serves as director of SIPA's Center on Global Energy Policy.

His research and policy interests lie at the intersection of economics, energy, environment, and national security. Prior to joining the White House, Professor Bordoff was the policy director of the Hamilton Project, an economic policy initiative housed at the Brookings Institution. He is also a member of the Council on Foreign Relations, a consultant to the National Intelligence Council, and serves on the board of the Association of Marshall Scholars. During the Clinton administration, Professor Bordoff served as an adviser to the deputy secretary of the U.S. Treasury Department. He was also a consultant with McKinsey & Company, one of the leading global strategy consultancies.

He graduated with honors from Harvard Law School, where he was treasurer and an editor of the *Harvard Law Review*, and clerked on the U.S. Court of Appeals for the D.C. Circuit. Professor Bordoff also holds an MLitt degree from Oxford University, where he studied as a Marshall Scholar, and a BA magna cum laude and Phi Beta Kappa from Brown University.



NICK BUTLER

Visiting Fellow and Chair of King's Policy Institute
King's College London

Nick Butler was group vice president for strategy and policy development at BP from 2002 to 2006 and previously BP's group policy adviser. From 2009 to 2010 he worked for the prime minister as senior policy adviser at 10 Downing Street. He was the author (jointly with Richard Lambert) of *European Universities: Renaissance or Decay*, published by the Centre for European Reform. Mr. Butler has served as a member of the President's International Advisory Council at Yale. His particular interests are international energy policy including energy security, industrial policy, the future of higher education, and European issues.



THE RIGHT HONOURABLE MICHAEL FALLON, MP
Minister of State for Energy
UK Department of Energy and Climate Change

Michael Fallon was appointed minister for business and energy in March 2013, having held the position of minister for business and enterprise since September 2012. He has been the Conservative MP for Sevenoaks, Kent, since 1997. Minister Fallon was educated at Epsom College and the University of St Andrews.

He was MP for Darlington from 1983 to 1992. He was a minister in the Department for Education and Science from 1990 to 1992. More recently he has held positions on the Treasury Select Committee and was deputy chairman of the Conservative Party.

Minister Fallon is a former director of Bannatyne Fitness Ltd (fitness clubs), Quality Care Homes plc (nursing homes), Just Learning Ltd (nurseries), Attendo AB (Scandinavian social and health care), and Tullett Prebon plc (inter-dealing broking).

He is married and has two children.



DAVID HOBBS
Head of Research
KAPSARC

David Hobbs is the head of research at KAPSARC. Prior to joining the Center, he was both chief energy strategist and head of research at IHS CERA. Mr. Hobbs is an expert in energy industry structure and strategies, and author of several studies and analyses on important energy issues ranging from the oil value chain and the problem of assessing oil and gas reserves to the impact of natural gas supplies on energy markets and technology and the effect on job creation and economic growth of energy industry investment activities. He also produced a report on the world economic crisis for the Ministerial meeting in London hosted by UK Prime Minister Gordon Brown and has advised on several projects on topics including the Canadian oil sands, clean energy, and national energy strategies. Mr. Hobbs is an adjunct professor at the University of Calgary and was on the management board of the Global Energy Executive MBA program run jointly between the Haskayne School of Business and IHS CERA. He is also a member of the Scientific Advisory Board of the Fondazione Eni Enrico Mattei (FEEM). Overall, he has nearly three decades of experience in the global energy business and has directed projects in Asia, South America, North America, and the North Sea, as well as led major international investment and asset commercialization programs. He holds a degree in petroleum engineering from Imperial College.



MICHAEL LIEBREICH
Chief Executive
Bloomberg New Energy Finance

Michael Liebreich is chief executive of Bloomberg New Energy Finance, the leading provider of research for decision makers in the clean energy, water, carbon, and power markets. Bloomberg New Energy Finance has close to 200 staff working out of 11 offices around the world. Michael founded the company in 2004 and acted as chairman and chief executive until its acquisition by Bloomberg in 2009.

Mr. Liebreich is a member of the UN secretary general's High Level Advisory Group on Sustainable Energy for All, the World Economic Forum's Global Agenda Council on the New Energy Architecture, and Accenture's Global Energy Board. He is a former member of the advisory board of the Clinton Global Initiative's Energy and Climate Change working group and of the selection panel for the Zayed Future Energy Prize. He is a member of the selection panel for the World Economic Forum Technology Pioneers and chairman of the selection committee for the Bloomberg New Energy Pioneers. He is on the advisory panel for the INSEAD Energy Club and acts as visiting professor at London's Imperial College Energy Futures Lab.

Prior to founding New Energy Finance, Mr. Liebreich was an entrepreneur, venture capitalist, and media executive. In the 1990s he acted as deputy managing director of Associated Press Television and founding director of Sports News Television, and then as UK managing director of Groupe Arnault's technology investment activities. He also spent five years in the London office of McKinsey & Company. He is a three-time finalist in the Ernst & Young Entrepreneur of the Year Awards.

Mr. Liebreich graduated in engineering from the University of Cambridge, winning the Riccardo Prize for Thermodynamics. He earned his MBA from Harvard, where he was a Harkness fellow and Baker Scholar. He was a member of the British Ski Team at the 1992 Albertville Olympic Games. He is also chairman of St. Mark's Hospital Foundation, a medical charity, and a nonexecutive director of Transport for London.



CHRISTOF RÜHL

Group Chief Economist and Vice President

BP plc

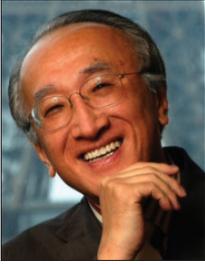
Christof Rühl is group chief economist and vice president of BP plc. He manages BP's global Economics Team, providing economic input into the firm's commercial decisions. BP's Economics Team also produces the annual Statistical Review of World Energy and Global Energy Outlook. Mr. Rühl has a distinguished track record in both academia and economic policy making. Prior to joining BP, he was at the World Bank (1998–2005), where he served as the bank's chief economist in Russia and in Brazil. Before that, he worked in the Office of the Chief Economist at the European Bank for Reconstruction and Development in London. Previously, he was an academic economist, first in Germany and from 1991 as professor of economics at the University of California, Los Angeles. In addition, Mr. Rühl held visiting professorships at academic institutions worldwide, amongst them the University of Chicago. His areas of specialization are macroeconomics and energy economics; he has published widely in these fields.



DAVID SANDALOW
Inaugural Fellow
Center on Global Energy Policy

From April 2009 to May 2013, David Sandalow served in senior positions at the U.S. Department of Energy (DOE), including under secretary of energy (acting) and assistant secretary for policy and international affairs. As under secretary of energy (acting), Mr. Sandalow helped oversee DOE's renewable energy, energy efficiency, fossil energy, nuclear energy, and electricity delivery programs, with a budget of more than \$3.5 billion per year. As assistant secretary for policy and international affairs, he helped coordinate policy development and international activities at the department. Priorities included China (14 trips during his tenure at DOE), critical materials (launching DOE's first-ever Critical Materials Strategy), and electric vehicles (helping shape DOE's EV Everywhere program).

Prior to serving at DOE, Mr. Sandalow was an energy and environment scholar and senior fellow in the Foreign Policy Studies Program of the Brookings Institution as well as Energy and Climate Change Working Group chair at the Clinton Global Initiative. He also served as a senior adviser to Good Energies Inc. (a private equity fund investing in the energy sector) and Garten Rothkopf LLC (an energy consultancy). Mr. Sandalow is the author of *Freedom from Oil* (McGraw-Hill, 2008) and editor of *Plug-In Electric Vehicles: What Role for Washington?* (Brookings Press, 2009). He has written widely on energy and environment policy, including op-eds in *The New York Times*, *The Washington Post*, *Financial Times*, and other publications. Previously, he served as assistant secretary of state for Oceans, Environment & Science, a senior director on the National Security Council staff, an associate director on the staff of the White House Council on Environmental Quality, and executive vice president, World Wildlife Fund-U.S. Mr. Sandalow is a graduate of the University of Michigan Law School (JD) and Yale College (BA, philosophy).



NOBUO TANAKA
Non-resident Fellow
Center on Global Energy Policy

Nobuo Tanaka, the former executive director of the International Energy Agency, is a Non-Resident fellow at the Center on Global Energy Policy. He is also the global associate for energy security and sustainability of the Institute of Energy Economics in Japan. Mr. Tanaka's decades of experience with energy and finance began in 1973 when he joined Japan's Ministry of Economy, Trade and Industry. He has also worked for the Japanese embassy in Washington, D.C., and the Organization for Economic Cooperation and Development. He served as executive director of the International Energy Agency from 2007 to 2011. Mr. Tanaka, a Japanese national, has a degree in economics from the University of Tokyo and an MBA from Case Western Reserve University, Cleveland, Ohio.

