

SPRING 2014 ENERGY POLICY CONFERENCE

Thursday, May 8, 2014
Low Memorial Library Rotunda
Columbia University



THE CENTER ON GLOBAL ENERGY POLICY

Our mission is to improve the quality of energy policy and dialogue through objective, balanced, and rigorous analysis. We approach energy as an economic, security, and environmental concern. And we draw on the resources of a world-class institution, renowned faculty with deep experience, practitioners with wide experience, and a location in the world's finance, media, and diplomatic 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 one-year anniversary celebration of the Center on Global Energy Policy. I am excited and proud of all the Center has achieved in a short time. Led by Founding Director Jason Bordoff, the Center has quickly become central to Columbia and SIPA's intellectual life. In addition to an extensive roster of high-level public events and roundtables that has brought key policymakers, energy practitioners, and other thought leaders to SIPA, the Center has also appointed a distinguished set of fellows and Faculty Affiliates, launched a Women in Energy program to help develop the next generation of energy leaders, and undertaken an ambitious agenda of policy-oriented research projects.

The Center embodies the objective of SIPA's overall mission: to serve the global public interest by educating students to serve and lead, and by producing and sharing new knowledge on the critical public policy challenges facing the global community. Like SIPA, the Center's policy research cuts across issues that are homegrown, cross-border, and international in nature. Energy lies at the nexus of many of the world's most urgent and multifaceted policy challenges, which is why the Center's aim of providing independent, data-driven analysis to help U.S. and global policymakers navigate the complex world of energy is all the more critical and timely. In addition to the Center on Global Energy Policy, SIPA is also home to seven other transnational, issue-based centers and institutes, while our teaching and research focus on critical global policy areas: international finance and economics, international security, energy and the environment, economic development, human rights, and global urban challenges.

SIPA is enriched by being part of Columbia University and New York City, which allows us to convene key players from the academic, policy, and business worlds. We believe that this conference reflects the unique strengths of Columbia University, SIPA, and the Center, and we hope that it will inspire and foster conversation and ideas on the global energy policy challenges of today and tomorrow.

Sincerely,

Merit E. Janow

Dean, School of International and Public Affairs

Professor of Practice, International Economic Law and International Affairs

Columbia University

FROM THE DIRECTOR

Welcome to the one-year anniversary celebration of the Center on Global Energy Policy. It is my pleasure to share this day with you as we celebrate the accomplishments of our first year in building a world-class, policy-focused research center.

The mission of the Center is to help ensure that the vast changes underway within our energy system are matched by changes in policy based on objective, balanced, and rigorous analysis. Decision makers will be required, increasingly, to tackle new policy questions that were difficult to imagine just a few years ago, and the Center is committed to informing these choices with the kind of independent and data-driven analysis that is too often absent from public debate. Our research and programs are designed to have maximum real-world impact, including the development of concrete and actionable policy recommendations to meet the defining challenge of our generation—how to sustainably provide billions of people with reliable, affordable, and secure access to energy.

In our inaugural year, we have launched a research agenda that focuses on a variety of critical policy-relevant questions at the intersection of energy finance, markets, economics, and geopolitics. The Center has also created a fellows program of leading global figures. Our inaugural fellow and senior research scholar is David Sandalow, former under secretary (acting) and assistant secretary for policy and international affairs at the U.S. Department of Energy. Our nonresident fellows include: Jose Sergio Gabrielli, former CEO of Petrobras; Robert Hallman, former deputy secretary for energy and environment of New York State; Adrian Lajous, former CEO of Pemex; Robert McNally, former special assistant to President George W. Bush on the National Economic Council and senior director for international energy on the National Security Council; and Nobuo Tanaka, former executive director of the International Energy Agency. The Center has a stellar group of Faculty Affiliates from the Columbia University community, as well as expert affiliates from around the world, and it has quickly become the leading venue in New York for high-level public events and roundtables on current energy issues. And by engaging students through research, events, and other programs, like our Women in Energy mentoring program, the Center is helping prepare future energy scholars and leaders.

I am proud of all we have achieved in our first year and am very excited about the Center's future growth and continued success. Thank you for joining us today and for your continued involvement with the Center on Global Energy Policy.

Sincerely,

Jason Bordoff
Professor of Professional Practice in International and Public Affairs
Founding Director, Center on Global Energy Policy
Columbia University

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Thursday, May 8, 2014**

Welcoming Remarks

John H. Coatsworth, Provost, Columbia University

Introductory Remarks

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

Keynote Remarks followed by a Keynote Conversation

*Helge Lund, President and Chief Executive Officer, Statoil ASA
and*

*Dr. Daniel Yergin, Vice Chairman, IHS;
Founder, Cambridge Energy Research Associates*

Keynote Remarks followed by a Keynote Conversation

*John D. Podesta, Counselor to President Obama
and*

Jason Bordoff

Conference Conversation

*James E. Rogers, Retired Chairman & Chief Executive Officer,
Duke Energy Corporation*

and

David Sandalow, Inaugural Fellow, Center on Global Energy Policy

Conference Address followed by a Conference Conversation

Daniel B. Poneman, Deputy Secretary, U.S. Department of Energy

and

Dr. Daniel Yergin

Plenary Conversation “New Trends in Energy Geopolitics and Markets”

Lord Mandelson, Chairman, Global Counsel; Former European Trade Commissioner

*Dr. Edward L. Morse, Managing Director, Global Head of Commodities Research,
Citigroup*

*Carlos Pascual, Special Envoy and Coordinator for International Energy Affairs,
U.S. Department of State*

Dr. Daniel Yergin

Moderator: Jason Bordoff

Concluding Remarks

Jason Bordoff



JASON BORDOFF

Professor of Professional Practice in International
and Public Affairs

Founding Director, Center on Global Energy Policy

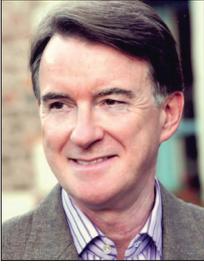
Jason Bordoff joined the Columbia faculty after serving until January 2013 as Special Assistant to the President and Senior Director for Energy and Climate Change on the staff of the National Security Council, and, prior to that, holding senior policy positions on the White House's National Economic Council and Council on Environmental Quality. One of the nation's top energy policy experts, he joined the administration in April 2009. At Columbia's School of International and Public Affairs, Bordoff is a professor of professional practice and serves as Founding Director of SIPA's Center on Global Energy Policy. Bordoff's research and policy interests lie at the intersection of economics, energy, environment, and national security. Prior to joining the White House, Bordoff was the Policy Director of the Hamilton Project, an economic policy initiative housed at the Brookings Institution. He is a member of the Council on Foreign Relations and the National Petroleum Council, a consultant to the National Intelligence Council, and serves on the board of the New York Energy Forum as well as the Association of Marshall Scholars. During the Clinton administration, 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. Bordoff 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. He also holds an M.Litt. degree from Oxford University, where he studied as a Marshall Scholar, and a B.A. magna cum laude and Phi Beta Kappa from Brown University.



HELGE LUND

President and Chief Executive Officer
Statoil ASA

Helge Lund has been president and Chief Executive Officer of Statoil ASA since August 2004. He is also a member of the board of directors of Nokia. Mr. Lund came to Statoil from the position of Chief Executive Officer in Aker Kværner ASA and held central managerial positions in the Aker RGI system from 1999. He has been political adviser to the Conservative Party of Norway's parliamentary group, a consultant with McKinsey & Co, and deputy managing director of Nycomed Pharma AS. Mr. Lund earned his M.A. in business economics (siviløkonom) from the Norwegian School of Economics and Business Administration (NHH) in Bergen and M.B.A. from INSEAD in France. Mr. Lund is a Norwegian citizen and resident.



LORD MANDELSON

Chairman, Global Counsel

Former European Trade Commissioner

Lord Mandelson is chairman of Global Counsel, a strategic advisory firm, and chairman of Lazard International. He is a former European trade commissioner and British first secretary of state. He was European trade commissioner between 2004 and 2008, during which time he negotiated trade agreements with many countries and led European negotiations in the WTO Doha World Trade Round. He was minister without portfolio, secretary of state for trade and industry, Northern Ireland secretary, and secretary of state for business, innovation, and skills in the British government under Tony Blair and Gordon Brown between 1997 and 2010. He was member of Parliament for Hartlepool in the UK from 1992 until 2004 and director of campaigns and communications for the Labour Party between 1985 and 1990. He is president of the Policy Network think tank. In 2010, he published his autobiography *The Third Man* (Harper Collins).



DR. EDWARD L. MORSE

Managing Director, Global Head of Commodities Research
Citigroup

Dr. Edward L. Morse is a leading specialist on global commodities, with a special focus on energy. He has held senior positions in finance, publishing/consulting, business, government, and academia. Dr. Morse joined Citigroup in May 2011 as managing director and global head of commodities research. He recently held a similar position at Credit Suisse and before that at LCM Commodities and Lehman Brothers.

He's been published widely in such journals as *Foreign Affairs*, *National Interest*, *The New York Times*, *The Financial Times*, *The Wall Street Journal*, *The Washington Post*, and he is a frequent commentator on international energy on radio and television. Dr. Morse also serves on the editorial boards of *Oil and Geopolitics of Energy*. He currently serves on the advisory boards of a number of academic programs including the Center on Global Energy Policy at Columbia University. He also chairs the New York Energy Forum and was most recently ranked one of "The 36 Best Analysts on Wall Street by *Business Insider* (one of two commodity analysts) and number 23 among the "Top 100 Global Thinkers of 2012" by *Foreign Policy*.

Dr. Morse was a senior adviser at Hess Energy Trading Company before he joined Lehman Brothers, in which position he worked with the firm and its clients on trading strategies. He joined HETCO after a decade-long stint as publisher of *Petroleum Intelligence Weekly* and other publications of the Energy Intelligence Group.

In business, Dr. Morse was cofounder of energy consultants PFC Energy and was director of international affairs at Phillips Petroleum. He also held a number of positions at the U.S. Department of State, including deputy assistant secretary for energy policy. In academia, he has taught at Princeton, Columbia, and Johns Hopkins Universities and holds a Ph.D. from Princeton.

Dr. Morse has held a number of consulting assignments, including with the U.S. Departments of State, Energy, and of Defense as well as with the International Energy Agency, the international organization at whose Governing Board he once represented the U.S. government and where he chaired the IEA's Committee on Long-Term Strategy. He also cochaired various bilateral working groups between the U.S. and such countries as Iran, Mexico, Nigeria, Norway, and the UK. He has advised the IEA and other public institutions, including several central banks, on issues related to oil, natural gas, and the impact of financial flows on prices. He also was a senior adviser to the United Nations and was instrumental in the framework negotiations for the Oil-for-Food Program for Iraq in the aftermath of the first Gulf War. He also served as senior adviser to Yemen's Supreme Petroleum Council in designing the country's oil export strategy.

Dr. Morse is a member of the Council on Foreign Relations, on whose senior research staff he worked for three years, as well as of the Oxford Energy Policy Club. He is the author of dozens of academic articles on energy, finance, and international relations.



CARLOS PASCUAL
Special Envoy and Coordinator for International
Energy Affairs
U.S. Department of State

Ambassador Carlos Pascual is the State Department's special envoy and coordinator for international energy affairs. Secretary Clinton appointed Ambassador Pascual to this position, effective May 18, 2011.

In this capacity, he advises the secretary on energy issues, ensuring that energy security is advanced at all levels of U.S. foreign policy. Prior to his appointment, Ambassador Pascual served as the United States ambassador to Mexico (2009–2011) and was vice president and director of the Foreign Policy Studies Program at the Brookings Institution (2003–2009).

During his extensive career in public service, Ambassador Pascual has held positions in the Department of State, the National Security Council (NSC), and the United States Agency for International Development (USAID). He served as coordinator for reconstruction and stabilization at the U.S. Department of State, where he led and organized U.S. government planning to help stabilize and reconstruct societies in transition from conflict or civil strife.

Ambassador Pascual served as coordinator for U.S. assistance to Europe and Eurasia (2003), where he oversaw regional and country assistance strategies to promote market-oriented and democratic states. He also served as U.S. ambassador to Ukraine (2000–2003), special assistant to the president and NSC senior director for Russia, Ukraine, and Eurasia (1998–2000), and director for the same region (1995–1998). Before then, Ambassador Pascual worked for USAID in Sudan, South Africa, and Mozambique, and as deputy assistant administrator for Europe and Eurasia (1983–1995).

Ambassador Pascual received his M.P.P. from the Kennedy School of Government at Harvard University in 1982 and his B.A. from Stanford University in 1980. He has served on the boards of directors for the National Endowment for Democracy, Freedom House, and the Internews Network. He has also served on the Advisory Group for the United Nations Peacebuilding Fund.



JOHN D. PODESTA

Counselor to the President

John Podesta is currently serving as counselor to the president. His duties include overseeing climate change and energy policy.

In 2008, he served as cochair of President Obama's transition team, where he coordinated the priorities of the incoming administration's agenda, oversaw the development of its policies, and spearheaded its appointments of major cabinet secretaries and political appointees.

He is the former chair of the Washington, D.C.-based think tank Center for American Progress and the Center for American Progress Action Fund. Prior to founding the Center in 2003, Podesta served as White House chief of staff to President William J. Clinton.

He also recently served on the President's Global Development Council and the UN Secretary General's High-Level Panel of Eminent Persons on the Post-2015 Development Agenda.

Additionally, Podesta has held numerous positions on Capitol Hill, including counselor to Democratic Senate leader Thomas A. Daschle (1995–1996).

A Chicago native, Podesta is a graduate of Knox College and the Georgetown University Law Center, where he is currently a visiting professor of law. He is the author of *The Power of Progress: How America's Progressives Can (Once Again) Save Our Economy, Our Climate, and Our Country*.



DANIEL B. PONEMAN
Deputy Secretary
U.S. Department of Energy

Daniel B. Poneman was nominated by President Obama to be deputy secretary of energy on April 20, 2009, and was confirmed by the United States Senate on May 18, 2009. Under the leadership of Secretary of Energy Steven Chu, Mr. Poneman also served as chief operating officer of the department. Between April 23, 2013, and May 21, 2013, Mr. Poneman served as acting secretary of energy.

Mr. Poneman first joined the Department of Energy in 1989 as a White House Fellow. The next year he joined the National Security Council staff as director of defense policy and arms control.

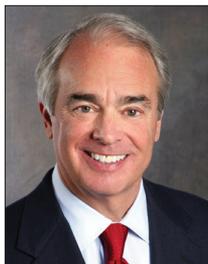
From 1993 through 1996, Mr. Poneman served as special assistant to the president and senior director for nonproliferation and export controls at the National Security Council. His responsibilities included the development and implementation of U.S. policy in such areas as peaceful nuclear cooperation, missile technology, space-launch activities, sanctions determinations, chemical and biological arms control efforts, and conventional arms transfer policy. During this time, he also participated in negotiations and consultations with governments in Africa, Asia, Europe, Latin America, and the former Soviet Union.

After leaving the White House, Mr. Poneman served as a member of the Commission to Assess the Organization of the Federal Government to Combat the Proliferation of Weapons of Mass Destruction and a number of other federal advisory panels.

Prior to assuming his responsibilities as deputy secretary, Mr. Poneman served as a principal of The Scowcroft Group for eight years, providing strategic advice to corporations on a wide variety of international projects and transactions. Between tours of government service he practiced law for nine years in Washington, D.C.—first as an associate at Covington & Burling, later as a partner at Hogan & Hartson—assisting clients in regulatory, policy, and transactional matters, international arbitration, commercial real estate financing, export controls, and sanctions and trade policy.

Mr. Poneman received A.B. and J.D. degrees with honors from Harvard University and an M.Litt. in politics from Oxford University. He has published widely on national security issues and is the author of *Nuclear Power in the Developing World* and *Argentina: Democracy on Trial*. His third book, *Going Critical: The First North Korean Nuclear Crisis* (coauthored with Joel Wit and Robert Gallucci), received the 2005 Douglas Dillon Award for Distinguished Writing on American Diplomacy. Mr. Poneman is a member of the Council on Foreign Relations.

Mr. Poneman lives in Virginia with his wife, Susan, and their three children.



JAMES E. ROGERS
Retired Chairman and Chief Executive Officer
Duke Energy Corporation

Jim Rogers was chairman of Duke Energy's board of directors and served as the company's president and Chief Executive Officer from April 2006 until July 2013. Over the course of his 25 years as a CEO in the electric utility industry, Mr. Rogers delivered an average total shareholder return of more than 12 percent per year by focusing on sustainable growth, stakeholder engagement, and finding business solutions to environmental challenges.

He has served more than 50 cumulative years on the boards of directors of eight Fortune 500 companies. Mr. Rogers is also active with numerous nonprofit boards, including his current role as chair of the Global Sustainable Electricity Partnership, a nonprofit organization composed of the world's leading electricity utilities. In addition, Mr. Rogers sits on the boards of the Asia Society, the Aspen Institute, and Duke University's Nicholas Institute for Environmental Policy Solutions. He is a lifetime member of the Council on Foreign Relations and a member of the global board of directors of The Nature Conservancy.

Mr. Rogers was chairman of the Edison Electric Institute when it changed its position to support federal climate change legislation in 2007. He was also the founding chairman of the Institute for Electric Efficiency and past cochair of both the National Action Plan for Energy Efficiency and the Alliance to Save Energy.

Recognized as an outspoken and accessible voice for business, Mr. Rogers earned the reputation as a "CEO Statesman." In 2009, *Newsweek* named him one of "The 50 Most Powerful People in the World." He has testified more than 20 times before U.S. Congressional committees and addressed international forums including the United Nations General Assembly, the World Economic Forum, and the Clinton Global Initiative.

Under Mr. Rogers' leadership, Duke Energy was recognized as a leader in sustainability—balancing the "triple bottom line" of people, planet, and profits. In 2010 and 2011, the company was named to the elite Dow Jones Sustainability World Index. Duke Energy was also part of the Dow Jones Sustainability Index for North America in each of the seven years Rogers served as the company's CEO.

He earned his bachelor's and law degrees from the University of Kentucky and lives in Charlotte, N.C.



DAVID SANDALOW
Inaugural Fellow
Center on Global Energy Policy

David Sandalow is the inaugural fellow at Columbia University's Center on Global Energy Policy. He is a senior adviser to Garten Rothkopf LLC and member of the Zayed Future Energy Prize Selection Committee. Prior to joining Columbia, Mr. Sandalow served in senior positions at the U.S. Department of Energy, including under secretary of energy (acting) and assistant secretary for policy and international affairs. As under secretary (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, he helped coordinate policy development and international activities at the department. Prior to serving at DOE, Mr. Sandalow was a senior fellow at the Brookings Institution, as well as Energy and Climate Change Working Group chair at the Clinton Global Initiative. He has served as assistant secretary of state for oceans, environment, and science and as senior director on the National Security Council staff. 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 speaks and writes widely on energy and environment policy and has served as a moderator at many conferences including the Clinton Global Initiative and World Future Energy Summit. Mr. Sandalow is a graduate of the University of Michigan Law School (J.D.) and Yale College (B.A., philosophy).



DR. DANIEL YERGIN

Vice Chairman, IHS

Founder, Cambridge Energy Research Associates

Dr. Daniel Yergin is a highly respected authority on energy, international politics, and economics. He is founder of IHS Cambridge Energy Research Associates and vice chairman of IHS.

In selecting Dr. Yergin as one of the “hundred people who mattered” worldwide, *Time* magazine said, “If there is one man whose opinion matters more than any other on global energy markets, it’s Daniel Yergin.” *Fortune* said that he is “one of the planet’s foremost thinkers about energy and its implications.”

A Pulitzer Prize winner, Dr. Yergin is the author of the bestseller *The Quest: Energy, Security, and the Remaking of the Modern World*.

The Quest has been called “a masterly piece of work” by *The Economist* and described by the *Financial Times* as “a triumph.” *The New York Times* said it is “necessary reading for C.E.O.’s, conservationists, lawmakers, generals, spies, tech geeks, thriller writers,” among many others. Bill Gates summed up his review saying, “This is a fantastic book.”

Dr. Yergin is known around the world for his book *The Prize: the Epic Quest for Oil, Money & Power*, which was awarded the Pulitzer Prize. It became a number one *New York Times* best seller and has been translated into 17 languages.

Dr. Yergin is also a business leader, as vice chairman of IHS, one of the world’s largest information companies, and founder of IHS Cambridge Energy Research Associates, one of the leading energy advisory firms in the world.

Of Dr. Yergin’s book *Commanding Heights: the Battle for the World Economy*, which has been translated into 13 languages, *The Wall Street Journal* said, “No one could ask for a better account of the world’s political and economic destiny since World War II.” Both *The Prize* and *Commanding Heights* were made into award-winning television documentaries for PBS and BBC.

Dr. Yergin was awarded the United States Energy Award for “lifelong achievements in energy and the promotion of international understanding.” He received the Charles Percy Award for Public Service from the Alliance to Save Energy. The International Association for Energy Economics gave Dr. Yergin its 2012 award for “outstanding contributions to the profession of energy economics and to its literature.” In 2014, India’s Prime Minister Manmohan Singh presented him a Lifetime Achievement Award.

Dr. Yergin serves on the U.S. Secretary of Energy Advisory Board and chaired the U.S. Department of Energy's Task Force on Strategic Energy Research and Development. He is a member of the advisory board's subcommittee that issued its report on shale gas at the request of President Obama.

Dr. Yergin is a member of the National Petroleum Council, a trustee of the Brookings Institution, and a director of the United States Energy Association and of the U.S.-Russian Business Council. He is a member of the Advisory Board of the Massachusetts Institute of Technology Energy Initiative, and of Singapore's International Energy Advisory Board. He is a "Wise Man" of the International Gas Union and a member of the Russian Academy of Oil and Gas. In 2012, he became an adjunct professor at the China University of Petroleum in Beijing.

Dr. Yergin holds a B.A. from Yale University, where he founded *The New Journal*, and a Ph.D. from Cambridge University, where he was a Marshall Scholar.

