

# Meeting Energy Needs, Reducing Environmental Impact

A climate change forum sponsored by Hitachi and featuring panels organized by the American Association for the Advancement of Science and The Brookings Institution

Thursday, March 5, 2009 • Washington, DC

## Forum Program Participants

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### Keynote Presentation

**The Honorable John F. Kerry**  
*United States Senator (D-MA)*

John Kerry was born on December 11, 1943 at Fitzsimons Army Hospital in Aurora, Colorado. Not long after John Kerry was born, the family settled in Massachusetts, where his parents taught him the values of service and responsibility and the blessings of his Catholic faith, lessons he carries with him to this day.

As he was graduating from Yale, John Kerry volunteered to serve in Vietnam, because, as he later said, "it was the right thing to do." John Kerry served two tours of duty. On his second tour, he volunteered to serve on a Swift Boat in the river deltas, one of the most dangerous assignments of the war. For his leadership, courage, and sacrifice under fire, he was decorated with a Silver Star, a Bronze Star with Combat V, and three Purple Hearts.

When he came home to the United States, John Kerry spoke out against a policy he felt gave politicians political cover while soldiers bore the real burden. He also began a lifelong fight for his fellow veterans – joining with other vets to found the Vietnam Veterans of America to fight for veterans' benefits, for extension of the G.I. Bill for Higher Education, and for treatment of PTSD.

Later, John Kerry accepted another tour of duty – to serve in America's communities. After graduating from Boston College Law School in 1976, John Kerry went to work as a top prosecutor in Middlesex County, Massachusetts. He took on organized crime, fought for victims' rights and created programs for rape counseling.

John Kerry was elected Lieutenant Governor in 1982. Two years later, he was elected to the United States Senate and he has won reelection three-times since. He is now serving his fourth term, after winning again in 2002 by the largest margin in Massachusetts history.

John Kerry entered the Senate with a reputation as a man of conviction. He helped provide health insurance for millions of low-income children. He has fought to improve public education, protect our natural environment, and strengthen our economy.

From his ground-breaking work on the Iran-Contra scandal to his leadership on global AIDS, John Kerry has distinguished himself as one of our nation's most respected voices on national security and international affairs. As chairman of the Senate Select Committee on POW/MIA Affairs, he worked to learn the truth about American soldiers missing in Vietnam and to normalize relations with that country. As the ranking Democrat on the East Asian and Pacific Affairs Subcommittee, he is a leading expert on that region, including North Korea. He worked on a bipartisan basis to craft the American response to September 11th and has been a leading voice on American policy in Iraq and Afghanistan, the war on terrorism, the Middle East peace process and Israel's security.

In 2003, John Kerry announced that he would be a candidate for president of the United States – and he went on to mount a come from behind campaign that won the Democratic nomination. Today in the United States Senate, he continues fighting for what motivated him to enter public life in the first place: love of country and the call of duty.

Senator Kerry was an early and ardent supporter of Barack Obama in the 2008 Presidential Election and while mounting his own successful run for a fifth term in the U.S. Senate. Kerry now chairs the Senate Foreign Relations Committee, the very committee he testified before in 1971. The Foreign Relations Committee plans to address the key foreign policy and national security issues facing the United States including Afghanistan and Pakistan, nuclear nonproliferation, global climate change, and a responsible conclusion to the war in Iraq.

Today, Senator Kerry is the fourteenth most senior Senator and the second longest serving Senator in his seat. He is the tenth most powerful Senate Democrat according to Roll Call/Knowlegis and holds senior positions on the Finance, Commerce, and Small Business Committees.

In his life of public service, John Kerry is sustained by his loving family. He is married to Teresa Heinz Kerry, and they have a blended family that includes two daughters, three sons, one grandchild, and three dogs.

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### Welcome

Master of Ceremonies

**Carlos Pascual**

*Vice President, Foreign Policy  
The Brookings Institution*

Ambassador Pascual joined Brookings in 2006 after a 23 year career in the United States Department of State, National Security Council (NSC) and the United States Agency for International Development (USAID). In 2007, he launched a major new initiative at Brookings called "Managing Global Insecurity: American Leadership, International Institutions, and the Search for Peace in the 21st Century." This project has generated a forthcoming new book, *Power and Responsibility: International Cooperation in an Era of Transnational Threats, an Action Plan for International Cooperation*, to give the 44th American President and key international partners a platform for a new approach to global governance in 2009. Ambassador Pascual also started the Brookings Energy Security Initiative which brings together Brookings' expertise on economics, foreign policy and governance to guide the development of energy security policies for the next decade.

Before joining Brookings, 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. Prior to that, he was Coordinator for U.S. Assistance to Europe and Eurasia and U.S. Ambassador to Ukraine.

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## Opening Remarks

### **Tadahiko Ishigaki**

*Chief Executive for the Americas  
Hitachi, Ltd.*

Tadahiko Ishigaki is Senior Vice President and Executive Officer, Chief Executive for North America, Hitachi, Ltd. In addition, he serves as Chairman, Hitachi America, Ltd. Mr. Ishigaki has a long and distinguished career with Hitachi, joining Hitachi, Ltd. in 1968. He served in both the New York and San Francisco offices of Hitachi America, Ltd. in 1977 and 1980 respectively before moving to the Hydroelectric Power & Substation Equipment Dept., International Sales Division I in 1982. Named Department Manager of the Industrial Machinery Department five years later, he also served as Department Manager, Marketing Department, of the Overseas Operations Promotion Office before being named Deputy Managing Director, Hitachi (Europe), Ltd. in 1993. Mr. Ishigaki continued his career in Europe with increasingly senior management positions at Hitachi Home Electronics (Europe), Ltd. In 1999, he was named General Manager, Digital Media Systems Sales Operations Division at Hitachi, Ltd. and two years later Senior Vice President, Nippon Columbia Co., Ltd. He has also served as the Managing Officer & General Manager, Corporate Marketing and the President & Director of Hitachi Home & Life Solutions, Inc. In April 2006, Mr. Ishigaki was named Representative Executive Officer, Senior Vice President and Executive Officer of Hitachi, Ltd.

### **Dr. Alan Leshner**

*Chief Executive Officer  
American Association for the Advancement of Science (AAAS)*

Dr. Leshner has been Chief Executive Officer of the American Association for the Advancement of Science and Executive Publisher of the journal *Science* since December 2001. AAAS was founded in 1848 and is the world's largest, multi-disciplinary scientific and engineering society. Before coming to AAAS, Dr. Leshner was Director of the National Institute on Drug Abuse (NIDA). Dr. Leshner also was the Deputy Director and Acting Director of the National Institute of Mental Health. At the National Science Foundation (NSF), he held a variety of senior positions focusing on basic research in the biological, behavioral and social sciences, science policy and science education.

Dr. Leshner was a Professor of Psychology at Bucknell University and has also held long-term appointments at the Postgraduate Medical School in Budapest, Hungary; at the Wisconsin Regional Primate Research Center; and as a Fulbright Scholar at the Weizmann Institute of Science in Israel. The U.S. President appointed Dr. Leshner to the National Science Board in 2004, and he is a member of the Advisory Committee to the Director of NIH.

### **Strobe Talbott**

*President  
The Brookings Institution*

Strobe Talbott assumed the presidency of The Brookings Institution in July 2002 after a career in journalism, government and academe. His immediate previous post was founding director of the Yale Center for the Study of Globalization. He served in the State Department from 1993 to 2001 after 21 years with *Time* magazine. His 11th book, *The Great Experiment: The Story of Ancient Empires, Modern States, and the Quest for a Global Nation*, which was published in January 2008, combines historical and political analysis with personal reflection on efforts to forge a peaceful community of nations.

Mr. Talbott has been a fellow of the Yale Corporation; a trustee of the Hotchkiss School; and a director of the Council on

Foreign Relations, the North American Executive Committee of the Trilateral Commission and the American Association of Rhodes Scholars. He is a member of the Aspen Strategy Group.

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## U.S. Climate Change Policy and Its International Implications

Panel Discussion Organized by The Brookings Institution

Moderator

### **Dr. Charles Ebinger**

*Director, Energy Security Initiative  
The Brookings Institution*

Prior to joining Brookings, Charles Ebinger was a Senior Energy Advisor at the International Resources Group and an Adjunct Professor at Georgetown University's School of Foreign Service. Currently, he is an Adjunct Professor at Johns Hopkins University's Nitze School of Advanced International Studies and serves on the Board of Directors of the Washington Chapter of the International Association of Energy Economists. Dr. Ebinger has 30 years of experience addressing the security, political, economic, environmental and foreign policy interrelationships surrounding domestic and international energy issues. In 1975, he helped to establish the International Energy Agency and its oil-sharing mechanism. From 1976 to 1979, Dr. Ebinger served as Vice President of Conant and Associates, an international oil, gas and electricity political risk consulting company. In 1979, he became the founding Director of CSIS's Energy and Strategic Resources Program and served as Director until 1987. He was a Senior Consultant at Putnam Hayes & Bartlett and served as Executive Vice President at the International Resources Group. In 1999, he joined Stone & Webster Management Consultants as the Director of International Energy Practice. From 2000-2004, he held several positions at Bechtel Consulting including Vice President and Director of International Utility Services, Senior Vice President for Middle East, Central Asia and Africa and Senior Vice President for Global Privatization/Restructuring/Regulation.

### **Jason Bordoff**

*Policy Director, Hamilton Project  
The Brookings Institution*

Jason Bordoff is Policy Director of the Hamilton Project, an economic policy initiative housed at The Brookings Institution committed to promoting more broadly shared prosperity. Mr. Bordoff has written on a broad range of economic policy matters with a focus on climate and energy, trade and globalization and tax policy. His publications include *Path to Prosperity* (Brookings Press 2008, with Jason Furman) and several journal articles, book chapters, op-eds and policy papers. He is also a term member of the Council on Foreign Relations, serves on the board of the Association of Marshall Scholars and is a member of the New York and Washington D.C. Bar Associations. He previously served as an advisor to Deputy Secretary Stuart E. Eizenstat at the U.S. Treasury Department and worked as a consultant for McKinsey & Co. in New York. 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.

### **Hajime Ito**

*President  
JETRO/New York*

Hajime Ito has served as president of JETRO/New York since August 2008. Before joining JETRO, he was Deputy Director-General for Global Environmental Affairs at METI and was

responsible for planning, coordinating and representing overall environmental policies of METI including participating in the international negotiation for post-Kyoto framework; attending Major Economic Meetings; G20, G8 preparatory meetings; coordinating inter-agency processes; supervising the process of purchasing emission rights under Kyoto Mechanism; and formulating and implementing domestic policy and measures for reducing CO<sub>2</sub> emissions.

In April 2004, he became Councilor, Cabinet Secretariat and was responsible for coordinating inter-agency processes and supporting the Prime Minister and Chief Cabinet Secretary in the various policy fields including: environmental policy, energy policy, IT policy, policy for small and medium size enterprises and policy for reinforcing international competitiveness of the Japanese industries. He also served at MITI as Director, Petroleum Distribution and Retail Division, Petroleum Department, Agency for Natural Resources and Energy.

**Dr. William Moomaw**

*Director, Center for International Environment and Resource Policy  
The Fletcher School  
Tufts University*

William Moomaw is the founding director of the Center for International Environment and Resource Policy, the Tufts Climate Initiative and co-founder of the Global Development and Environment Institute. He is a physical chemist with a Ph.D. from MIT who works to translate science and technology into policy terms using interdisciplinary tools. His major publications are on climate change, energy policy, nitrogen pollution, forestry financing and management and on theoretical topics such as the Environmental Kuznets Curve. He was a convening lead author of the 2001 Intergovernmental Panel on Climate Change chapter on greenhouse gas emissions reduction and for the special report on renewable energy due in 2010. He was a lead author of three other IPCC reports (1995, 2005 and 2007). The work of the IPCC was recognized with the 2007 Nobel Peace Prize. He also was an author for the Millennium Ecosystem Assessment on nitrogen and serves on the Integrated Nitrogen Committee of the EPA Science Advisory Board. He was the first director of the Climate, Energy and Pollution program at the World Resources Institute and directed the Center for Environmental Studies at Williams College where he held an endowed chair in chemistry. As an AAAS Congressional Science Fellow, he worked on legislation that eliminated American use of CFCs in spray cans to protect the ozone layer and also worked on energy and forestry legislation.

**Professor José Roberto Moreira**

*Chairman, Brazilian Reference Center on Biomass (CENBIO)*

José Roberto Moreira is a professor of Physics and Energy at the Institute of Electrotechnology and Energy, University of Sao Paulo, where he also serves as the chairman of the National Reference Center on Biomass (CENBIO).

During his academic career he has worked as an energy expert at Princeton University and Sendai University in Japan. Since 1994 he has been a lead author for the United Nations Intergovernmental Panel of Climate Change (IPCC), winner of the 2007 Nobel Peace Prize. He has authored more than 200 books and papers in the areas of Nuclear Physics, Atomic Physics, Energy Conservation, Energy Planning and Environment and is a member of several national and international organizations.

Outside his academic role with the University, Professor Moreira has held several positions including Undersecretary of Energy at the Ministry of Mines and Energy; Executive Director of Biomass Users Network, a NGO; and director of NEGAWATT, a private engineering company. Most recently he has been

engaged in providing consulting technical services for the multinational company MGM International for projects in the area of carbon credits.

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## Energy Revolution: Identifying the Gaps in R&D and Beyond

Panel Discussion Organized by the American Association for the Advancement of Science (AAAS)

Moderator

**Eli Kintisch**

*Reporter  
Science*

Eli Kintisch covers science policy for *Science* magazine including climate and energy matters and manages the *ScienceInsider* blog. He is writing a book on climate change.

**Stephen Eule**

*Vice President, 21st Century Energy  
U.S. Chamber of Commerce*

Stephen Eule serves as Vice President for Climate and Technology at the Institute for 21st Century Energy at the U.S. Chamber of Commerce. Before joining the Chamber, he was Director of the Office of Climate Change Policy & Technology at the U.S. Department of Energy. His previous experience includes a decade working in various public policy positions. He spent a number of years in the U.S. House of Representatives; first as a professional staffer and then subcommittee staff director with the Committee on Science and then as legislative director in the personal office of Representative Nick Smith (R-MI). He also served in Christie Todd Whitman's Washington office as an environmental analyst. Prior to that, he was with The Orkand Corporation as an energy consultant to the Energy Information Administration. He also was with the Heritage Foundation where he was assistant editor on the book *Free Market Energy*.

**Dr. Kelly Sims Gallagher**

*Director, Energy Technology Innovation Project  
Harvard University*

Kelly Sims Gallagher is Director of the Energy Technology Innovation Policy (ETIP) research group at Harvard University's Belfer Center for Science and International Affairs and Adjunct Lecturer in the Kennedy School of Government. She has an M.A.L.D. and Ph.D. in International Affairs from the Fletcher School of Law and Diplomacy at Tufts University and an A.B. in international affairs and environmental studies from Occidental College. She is an international member of the Task Force on Innovation for the China Council International Cooperation on Environment and Development. She speaks Spanish and basic Mandarin Chinese. She is the author of the book *China Shifts Gears: Automakers, Oil, Pollution, and Development* (available from The MIT Press). Her new book, *Acting in Time on Energy Policy*, will be published by Brookings Institution Press in April 2009.

**Dr. Martin Hoffert**

*Professor Emeritus of Physics  
New York University*

Martin Hoffert is Professor Emeritus of Physics and former Chair of the Department of Applied Science at New York University. He has published broadly in fluid mechanics, plasma physics, oceanography, planetary atmospheres, climatic change, solar and wind energy and space solar power. Most notably, he wrote the landmark 2002 article in the journal *Science* that concluded global warming mitigation was a clean energy research,

development, demonstration and deployment problem, not primarily a regulation problem. He holds a B.S. in aeronautical engineering from the University of Michigan; an M.S. and Ph.D. in astronautics from the Polytechnic Institute of Brooklyn; and a Master of Arts in Liberal Studies from the New School for Social Research where he did graduate work in sociology and economics. He is a member of the American Geophysical Union (AGU), the American Institute of Aeronautics and Astronautics (AIAA) and was elected fellow of the American Association for the Advancement of Science (AAAS).

#### **Revis W. James**

*Director, Energy Technology Assessment Center  
Electric Power Research Institute (EPRI)*

Revis James is Director of EPRI's Energy Technology Assessment Center where he focuses on identifying strategic research and development priorities for the electric power industry. His current research activities include analysis of the potential for CO<sub>2</sub> emissions reductions from the U.S. electricity sector and assessment of the sensitivity of levelized costs of electricity to potential CO<sub>2</sub> emissions costs. He has been a lead author on several key EPRI public domain reports and analyses including *The Power to Reduce CO<sub>2</sub> Emissions: the Full Portfolio* and *Advancing the Efficiency of Electricity Utilization: "Prices to Devices<sup>SM</sup>."* Mr. James joined EPRI in 1992 as a project manager in the Nuclear Sector. He initially managed research programs in instrumentation and controls, human performance and maintenance optimization in the nuclear sector. Subsequently, Mr. James managed the EPRI long-range strategic research program for several years. Most recently, he spent 2½ years in Paris, France developing a collaborative strategic research and development program with the R&D division of Electricité de France.

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## **Conserving Energy Through Policy, Technology and Lifestyle**

Panel Discussion Organized by Hitachi, Ltd.

Moderator

#### **Michael Shepard**

*President  
E SOURCE*

Michael Shepard is president and a co-founder of E SOURCE, a Boulder, Colorado based firm that has provided technical and business intelligence to hundreds of electric and gas utilities, Fortune 500 corporate energy managers, government agencies and other players in the energy sector since 1987. The firm provides tools, research and client access to its experts in practice areas focused near the customer meter: assessing the latest in energy efficient technology, DSM program design and delivery, climate change policy and strategy and best practices in such utility functional areas as customer care, E-business, marketing, customer products and services, account management and communications.

In addition to his general executive role in the company, Mr. Shepard oversees the firm's research and consulting activities with particular expertise in DSM programs, energy-efficient technology, emissions markets and climate change. He serves on the Advisory Board for Avista Utilities' energy-efficiency program and chairs the board of the Institute for Social and Environmental Transition, an international development organization focused on innovative energy and resource solutions for developing economies.

#### **Kateri Callahan**

*President  
Alliance to Save Energy*

Kateri Callahan brings more than 20 years of experience in policy advocacy, fundraising, coalition building and organizational management to her position as the president of the Alliance to Save Energy, a non-government organization headquartered in Washington, D.C. whose mission is to advance energy efficiency worldwide to achieve a healthier economy, a cleaner environment and greater energy security. Under Ms. Callahan's leadership, the Alliance conducts policy, communications, research, education and market transformation initiatives in the U.S. and more than a dozen other countries. She serves as the principal spokesperson for the Alliance and is a trusted source for credible information on energy efficiency and its role in addressing the environmental, economic and national security issues associated with the use of energy.

Ms. Callahan serves as the Co-Chair of The Keystone Center Energy Board and on the boards of the Business Council for Sustainable Energy and the Building Performance Institute. She also serves on an advisory council to the periodical *Better Homes and Gardens* and to the U.S. Chamber of Commerce 21st Century Energy Institute.

#### **Takashi Hatchoji**

*Chief Environmental Strategy Officer  
Hitachi, Ltd.*

Takashi Hatchoji was appointed CEnO (Chief Environmental Strategy Officer) and Adviser of Hitachi, Ltd. on December 1, 2007.

He graduated from Hitotsubashi University with a B.A. in Commerce in March 1970, and he joined Hitachi in April of that year. He has since held various positions within Hitachi including General Manager of the Corporate Planning & Development Office; Executive General Manager of the Business Solution Systems Division; Corporate Officer, Administrative Officer, COO and CTO of the Information & Telecommunication Systems Group; General Manager of Legal and Communications; General Manager of Corporate Auditing; Vice President; and Executive Officer of Hitachi, Ltd. He has been Adviser of Hitachi, Ltd. since April 1, 2007.

#### **Tom Stricker**

*Director-Corporate Manager  
Toyota Motor North America*

Tom Stricker is Director of Technical and Regulatory Affairs and Director of Energy and Environmental Research for Toyota Motor North America, Inc. Mr. Stricker is responsible for analyzing the impacts of energy and environmental policy on Toyota's future powertrain development, overseeing Toyota's activities related to Corporate Average Fuel Economy (CAFE) and providing technical support for Toyota's federal legislative affairs.

Prior to joining Toyota in 2001, Mr. Stricker served as Senior Products Associate at the American Petroleum Institute focusing on regulatory and policy issues for the fuels and refining industries. From 1989–2000, Mr. Stricker held various positions within the U.S. Environmental Protection Agency's mobile source emission program including compliance, regulation and policy development. In 1999, Mr. Stricker received the Gold Medal for Exceptional Service and a commendation from the U.S. Department of Justice. Mr. Stricker is a frequent speaker on Toyota's advanced technology strategy, energy and environmental policy, biofuels and fuel economy, and he has testified several times before Congress.