

2ND U.S.-CHINA STRATEGIC FORUM ON CLEAN ENERGY COOPERATION
第二届中美清洁能源务实合作战略论坛

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ABOUT THE FORUM

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The United States and China can advance the prospect of achieving climate-friendly economic growth if we can find pragmatic solutions to our societies' demand for clean energy. This is the central idea behind the U.S.-China Strategic Forum on Clean Energy Cooperation, convened by the Brookings Institution and the China Institute for Innovation and Development Strategy on January 18-19, 2011.

Through detailed discussions on clean energy priorities and on related opportunities for concrete cooperation, this second annual U.S.-China Strategic Forum on Clean Energy Cooperation seeks to advance our cooperative efforts specifically in the areas of clean coal, renewables, nuclear energy, and investment in clean infrastructure.

Cooperation between the United States and China on clean energy is a continuing bright spot in U.S.-China relations. The Hu-Obama summit meeting in Beijing in November 2009 produced seven cooperative agreements on clean energy, encompassing areas such as research, technology, manufacturing, regulatory policy and low carbon-development strategies. The current Forum coincides with President Hu Jintao's state visit to Washington, and we hope that both the Forum and the state visit will foster further progress in U.S.-China clean energy cooperation.

The current Forum provides a platform for scientists, corporate leaders, government officials, academics, and policy specialists to discuss concrete means to advance cooperation on clean energy. This mix reflects our goal to expand and strengthen the partnership between the U.S. and Chinese public and private sectors in the broad area of clean energy. We believe that such cooperation will also contribute positively to overall U.S.-China relations, and part of the Forum focuses on this broader objective.

It is our pleasure and privilege to sponsor this timely event. We look forward to deep, innovative discussions that will help to find solutions to our common energy challenges.

ABOUT THE BROOKINGS INSTITUTION

The Brookings Institution is a nonprofit public policy organization based in Washington, DC. Our mission is to conduct high-quality, independent research and, based on that research, to provide innovative, practical recommendations that advance three broad goals: strengthen American democracy; foster the economic and social welfare, security and opportunity of all Americans; and secure a more open, safe, prosperous and cooperative international system. Brookings is proud to be consistently ranked as the most influential, most quoted, and most trusted think tank not just in the United States but around the world.

ABOUT THE CHINA INSTITUTE FOR INNOVATION AND DEVELOPMENT STRATEGY

The China Institute for Innovation and Development Strategy (CIIDS) was founded in May 2010, with Mr. Lu Yongxiang, a distinguished scientist, as honorary advisor and Mr. Zheng Bijian, an eminent theorist and strategist, as its chairman. More than 20 renowned Chinese political figures, diplomats, military scholars, economists, public figures, and academicians serve as senior advisors. Innovation and development are the main subjects of study at CIIDS, as they are interlinked and mutually reinforcing. The purpose of CIIDS's work is to further explore China's path to a peaceful rise or peaceful development. Specifically, CIIDS's studies concentrate on scientific and technological innovation, economic development, social governance, cultural advancement, cross-Straits relations, and international strategy. It is engaged in academic exchanges and joint studies with relevant government departments, well-known universities, research institutions, and enterprises at home, and it seeks cooperation and exchanges with relevant organizations abroad. The outcome of its studies provide intellectual support and policy advice to the Chinese government in its decision-making process.

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ACKNOWLEDGEMENT OF SUPPORT

SUPPORT FOR THE FORUM

The Brookings Institution and the China Institute for Innovation and Development Strategy would like to thank these individuals and organizations for their support, which helped make the Forum possible.

The ACE Foundation	General Electric Company
AES Corporation	Goldman Sachs
Alcoa Foundation	Hitachi Ltd.
American Electric Power	Hudson Clean Energy Partners
AREVA	McKinsey & Company
The Babcock & Wilcox Company	Ministry of Foreign Affairs, People's Republic of China
Battelle	National Energy Administration, People's Republic of China
China Energy Research Society	Rio Tinto, PLC
China Guodian Corporation	Shenhua Group Corporation Limited
China National Coal Group Corporation	Siemens Corporation
Chinese Academy of Science	State Nuclear Power Technology Corporation
Chinese Renewable Energy Society	TerraPower
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Eaton Corporation	
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FORUM AGENDA

MONDAY, JANUARY 17

2:00PM - 9:00PM **Registration**

TUESDAY, JANUARY 18

7:00AM - 12:00PM **Late registration**

7:00AM - 8:30AM **Breakfast**

8:30AM - 9:30AM **Opening session**

INTRODUCTORY REMARKS:

John L. Thornton, *Chairman, The Brookings Institution*

KEYNOTE SPEECHES:

The Honorable Jon M. Huntsman, Jr.,
Ambassador to the People's Republic of China, United States of America

Zheng Bijian, *Chairman, China Institute for Innovation & Development Strategy*

9:30AM - 9:45AM **Coffee and tea break**

9:45AM - 11:45AM **U.S.-China Cooperation on Clean Energy Research & Technology**

INTRODUCTION AND MODERATOR:

Zhou Dadi, *Vice Chairman, China Institute for Innovation and Development Strategy; Executive Vice Council Chairman, China Energy Research Society*

SPEAKERS:

The Honorable John P. Holdren,
Assistant to the President for Science and Technology and Director of the White House Office of Science and Technology Policy

The Honorable Wan Gang, *Vice Chairman, Chinese People's Political Consultative Conference and Minister, Ministry of Science and Technology*

The Honorable David Sandalow,
Assistant Secretary for Policy and International Affairs, United States Department of Energy

Chai Songyue, *President, China Energy Research Society*

Xie Kechang, *Vice Dean And Academician, Chinese Academy of Engineering*

John Deutch, *Distinguished Senior Fellow, The Brookings Institution and Institute Professor, Massachusetts Institute of Technology*

11:45AM - 12:15PM **Networking opportunity**

11:15AM - 12:15PM **Clean Energy Research Center Ceremony**

12:30PM - 1:30PM **Lunch Session**

INTRODUCTION:

Strobe Talbott, *President, The Brookings Institution*

SPEAKERS:

The Honorable C.H. Tung, *Vice Chairman, Chinese People's Political Consultative Conference; President, China-United States Exchange Foundation*

Justin Yifu Lin, *Chief Economist and Senior Vice President, The World Bank*

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FORUM AGENDA

1:30PM - 5:30PM	Working Group A – U.S.-China Cooperation on Clean Coal	2:30PM - 3:30PM	U.S.-China Energy Signing Ceremony
1:30PM - 2:00PM	Introductory remarks	5:30PM - 6:30PM	Reception
2:00PM - 3:30PM	First roundtable session	6:30PM - 8:30PM	Dinner
3:30PM - 3:45PM	Coffee and tea break		INTRODUCTION:
3:45PM - 5:15PM	Second roundtable session		Kenneth Lieberthal, <i>Senior Fellow and Director, John L. Thornton China Center, The Brookings Institution</i>
5:15PM - 5:30PM	Recap of first day		SPEAKERS:
1:30PM - 5:30PM	Working Group B – U.S.-China Cooperation on Renewable Energy		The Honorable Steven Chu, <i>Secretary of Energy, United States of America</i>
1:30PM - 2:00PM	Introductory remarks		The Honorable Zhang Guobao, <i>Vice Chairman, National Development and Reform Commission and Director, National Energy Administration, People's Republic of China</i>
2:00PM - 3:30PM	First roundtable session		
3:30PM - 3:45PM	Coffee and tea break		
3:45PM - 5:15PM	Second roundtable session		
5:15PM - 5:30PM	Recap of first day		
1:30PM - 5:30PM	Working Group C – U.S.-China Cooperation on Nuclear Power	WEDNESDAY, JANUARY 19	
1:30PM - 2:00PM	Introductory remarks	7:30AM - 8:30AM	Breakfast
2:00PM - 3:30PM	First roundtable session	8:00AM - 9:30AM	Roundtable: Upgrading America's Clean Energy Infrastructure
3:30PM - 3:45PM	Coffee and tea break	8:30AM - 10:30AM	Working Group A – U.S.-China Cooperation on Clean Coal
3:45PM - 5:15PM	Second roundtable session	8:30AM - 10:00AM	Third roundtable session
5:15PM - 5:30PM	Recap of first day	10:00AM - 10:30PM	Conclusions and next steps
2:30PM - 5:30PM	Roundtable: Prospects for U.S.-China Relations in the Next Decade	8:30AM - 10:30AM	Working Group B – U.S.-China Cooperation on Renewable Energy
2:30PM - 4:00PM	First roundtable session	8:30AM - 10:00AM	Third roundtable session
4:00PM - 4:15PM	Coffee and tea break	10:00AM - 10:30PM	Conclusions and next steps
4:15PM - 5:30PM	Second roundtable session		

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FORUM AGENDA

8:30AM - 10:30AM **Working Group C – U.S.-China
Cooperation on Nuclear Energy**

8:30AM - 10:00AM Third roundtable
session

10:00AM - 10:30PM Conclusions and
next steps

10:45AM - 12:30PM **Panel: Government and Industry
in U.S.-China Clean Energy
Cooperation**

INTRODUCTORY REMARKS:

He Jiankun, *Vice Director, China
Expert Committee on Climate
Change; Vice President, China Energy
Research Society; Executive Vice
President, Tsinghua University*

MODERATOR:

S. Julio Friedmann, *Carbon
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12:30PM - 2:00PM **Closing lunch**

INTRODUCTORY REMARKS:

John L. Thornton, *Chairman, The
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SPEAKERS:

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International Cooperation Department,
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SPEAKER BIOGRAPHIES



WILLIAM J. ANTHOLIS

William J. Antholis serves as the Managing Director of The Brookings Institution. Dr. Antholis is also a Senior Fellow in Governance Studies. Along with Brookings President Strobe Talbott, he is the author of *Fast Forward: Ethics and Politics in*

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ARIS CANDRIS

Aris Candris is president and CEO of Westinghouse Electric Company. Previously, he served as senior vice president of the Nuclear Fuel business unit and, previously, of the Nuclear Services business unit. He began his Westinghouse career in 1975

as a senior engineer in the former Advanced Reactor Division. Dr. Candris holds a B.A. from Transylvania University in Lexington, Kentucky, and an M.S. and a Ph.D. in nuclear engineering from Carnegie Mellon University. He is a member of the Boards of Trustees for Carnegie Mellon University, Transylvania University and the Pittsburgh Cultural Trust. He serves on the Advisory Board of the Carnegie Institute of Technology and is a member of the Nuclear Energy Institute and The World Nuclear Association Boards of Directors.



CHAI SONGYUE

Chai Songyue is President of the China Energy Research Society, Vice Chairman of the Economic Affairs Committee of the Chinese Peoples' Political Consultative Conference (CPPCC), and a member of the Standing Committee of CPPCC. Mr. Chai graduated

from the Leaders' Institute of Administration under the Coal Industry Ministry and began working in 1958. He has served as Provincial Governor and Deputy Communist Party Secretary of Zhejiang and Chairman (Minister) of the State Electricity Regulatory Commission. Mr. Chai was also an alternate member of the CPC Central Committee at the 14th National Congress and a member of both the 15th and 16th National Congresses.



STEVEN CHU

Steven Chu is the United States Secretary of Energy. Dr. Chu is a distinguished scientist and co-winner of the Nobel Prize for Physics (1997). He has devoted his recent scientific career to the search for new solutions to our energy challenges and stopping

global climate change. Prior to his appointment, Dr. Chu was the Director of the Department of Energy's Lawrence Berkeley National Lab, where he led the lab in pursuit of alternative and renewable energy technologies. He also taught at the University of California as a Professor of Physics and Professor of Molecular and Cell Biology. Previously, he held positions at Stanford University and AT&T Bell Laboratories. The holder of 10 patents, Dr. Chu has published nearly 250 scientific and technical papers. Dr. Chu is a member of the National Academy of Sciences, the American Philosophical Society, the Chinese Academy of Sciences, Academia Sinica, the Korean Academy of Sciences and Technology, and numerous other civic and professional organizations. He received an A.B. degree in mathematics, a B.S. degree in physics from the University of Rochester, and a Ph.D. in physics from the University of California, Berkeley as well as honorary degrees from 15 universities.

SPEAKER BIOGRAPHIES



JOHN DEUTCH

John Deutch is an Institute Professor at the Massachusetts Institute of Technology. Mr. Deutch has been a member of the MIT faculty since 1970, and has served as Chairman of the Department of Chemistry, Dean of Science and Provost. Mr.

Deutch has published over 140 technical publications in physical chemistry, as well as numerous publications on technology, energy, international security, and public policy issues. From May 1995-December 1996, Mr. Deutch served as Director of Central Intelligence. From March 1994 to May 1995, he served as the Deputy Secretary of Defense. From March 1993 to March 1994, Dr. Deutch served as Under Secretary of Defense for Acquisitions and Technology. From 1977 to 1980, John Deutch served in a number of positions for the U.S. Department of Energy. John Deutch earned a B.A. in history and economics from Amherst College, and a B.S. in chemical engineering and Ph.D. in physical chemistry from M.I.T.



JULIO FRIEDMANN

Julio Friedmann is the Carbon Management Program Leader for Lawrence Livermore National Laboratory, where he leads initiatives and research into carbon capture, carbon storage, and fossil fuel recovery and utilization. He has testified before

the U.S. House, Senate, and several state legislatures, published in *Foreign Affairs* and the *New York Times*, and worked with the EPA, USGS, private companies, NGOs, and the Dept. of Energy. He is a principle co-author on the MIT "Future of Coal Energy" Report, the National Petroleum Council report "Facing Hard Truths", and the World Resources Institute "CCS Guidelines" report. Julio received his B.S. and M.S. degrees from M.I.T., followed by a Ph.D. at the Univ. So. California. Previously, he worked as a senior research scientist in Houston for Exxon and ExxonMobil and as a research scientist at the Univ. of Maryland.



HE JIANKUN

He Jiankun is the Director of the Laboratory for Low Carbon Energy and a professor of Management Science and Engineering at Tsinghua University. He is also Vice Chairman of the China Experts Panel on Climate Change, Vice

President of the Chinese Energy Research Society and Chair for the society's Energy Systems Engineering Committee. From 1994-2007, he was the Vice President and Executive Vice President of Tsinghua University. Professor He's major research areas include energy systems engineering and strategy and policy to address global climate change. He has received a number of national and provincial/ministerial scientific and technology progress awards and has published more than 100 academic papers.



JOHN P. HOLDREN

John P. Holdren is Assistant to the President for Science and Technology, Director of the White House Office of Science and Technology Policy, and Co-Chair of the President's Council of Advisors on Science and Technology (PCAST). Previously,

Dr. Holdren was the Teresa and John Heinz Professor of Environmental Policy and Director of the Program on Science, Technology, and Public Policy at Harvard University's Kennedy School of Government, as well as professor in Harvard's Department of Earth and Planetary Sciences, and Director of the Woods Hole Research Center. Dr. Holdren holds advanced degrees in aerospace engineering and theoretical plasma physics from MIT and Stanford. He is a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences, as well as a foreign member of the Royal Society of London. He is a former president of the American Association for the Advancement of Science and a member of the MacArthur Foundation's board of trustees.

SPEAKER BIOGRAPHIES

**JON HUNTSMAN**

Jon Huntsman was tapped by President Barack Obama to serve as United States Ambassador to China in May 2009, and his nomination was unanimously confirmed by the United States Senate. Huntsman was elected twice as Governor of Utah,

including in 2008 with a record percent of the vote, including the majority in all 29 counties. Huntsman's public service career began as a White House staff assistant to President Ronald Reagan and has since included appointments as Deputy Assistant Secretary of Commerce for Asia, U.S. Ambassador to Singapore and Deputy U.S. Trade Representative. He is a founding director of the Pacific Council on International Policy and has served on various boards such as the Brookings Institution Asia Policy Board, the Center for Strategic and International Studies Pacific Forum, the Asia Society in New York and the National Bureau of Asian Research. He is a graduate of the University of Pennsylvania and has six honorary doctorate degrees.

**JUSTIN YIFU LIN**

Justin Yifu Lin is the Senior Vice President and Chief Economist of the World Bank, a position he has held since June 2008. In his current position, Mr. Lin guides the Bank's intellectual leadership and plays a key role in shaping the economic research agenda of the

institution. Prior to joining the Bank, Mr. Lin served for 15 years as Founding Director and Professor of the China Centre for Economic Research (CCER) at Peking University. Mr. Lin received his PhD in economics from the University of Chicago in 1986 and is the author of 18 books, including *The China Miracle: Development Strategy and Economic Reform* and *Economic Development and Transition: Thought, Strategy, and Viability*. He has published more than 100 articles in refereed international journals and collected volumes on history, development, and transition.

**LIU ZHENYA**

Liu Zhenya is President of the State Grid Corporation of China and Chairman of the China Electricity Council. Previously, he was executive vice president of SGCC and Chairman and President of Shandong Electric Power Company. Mr. Liu

holds a Master of Science degree from Shandong University. He is a senior engineer honored with a special state allowance. In addition to being recipient of the "National May 1st Labor Award", Mr. Liu was a representative of the 9th and 10th National People's Congresses.

**MICHAEL G. MORRIS**

Michael G. Morris is Chairman and Chief Executive Office of American Electric Power. Previously, Morris was chairman, president and CEO of Northeast Utilities System, president and CEO of Consumers Energy, and president of CMS Marketing,

Services and Trading. He has also served as president of Colorado Interstate Gas Co. and executive vice president of marketing, transportation and gas supply for ANR Pipeline Co., both subsidiaries of El Paso Energy. Morris was the founder and president of ANR Gathering Co. Morris graduated from Eastern Michigan University with both bachelors and masters degrees in biology. He served on the Board of Regents at Eastern Michigan University from 1997-2004. He received a law degree, cum laude, from the Detroit College of Law and is a member of the Michigan Bar Association.

**JIM ROGERS**

Jim Rogers is chairman of the board, president, and chief executive officer of Duke Energy. Previously, Rogers served as Cinergy's chairman and chief executive officer. Rogers has served as deputy general counsel for litigation and enforcement for

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the Federal Energy Regulatory Commission (FERC); executive vice president of interstate pipelines for the Enron Gas Pipeline Group; and as a partner in the Washington, D.C., office of Akin, Gump, Strauss, Hauer & Feld. He is currently a director of Cigna Corp. and Applied Materials Inc. Rogers is past chairman of the Edison Electric Institute, is chairman of the Institute for Electric Efficiency, serves as a member of the board of directors and the Executive Committee of the Nuclear Energy Institute, and is a board member of the Institute of Nuclear Power Operations and the World Association of Nuclear Operators (WANO). Over the past several years, Rogers has published numerous articles and spoken to more than 20 universities and colleges across the country on energy and environmental issues.

**DAVID SANDALOW**

David Sandalow is Assistant Secretary for Policy & International Affairs at the U.S. Department of Energy. Prior to being confirmed as Assistant Secretary, Mr. Sandalow was Energy & Environment Scholar and a Senior Fellow in the Foreign

Policy Studies Program of the Brookings Institution, as well as Energy & Climate Change Working Group Chair at the Clinton Global Initiative. He is the author of *Freedom from Oil* and editor of *Plug-In Electric Vehicles: What Role for Washington?* Mr. Sandalow has written widely on energy and environmental policy, including op-eds in the *New York Times*, *Washington Post*, *Financial Times* and other publications. Previously, he served as Assistant Secretary of State for Oceans, Environment & Science; Senior Director for Environmental Affairs, National Security Council; Associate Director for the Global Environment, White House Council on Environmental Quality; and Executive Vice President, World Wildlife Fund-U.S. Mr. Sandalow is a graduate of Yale College (BA Philosophy) and the University of Michigan Law School (JD).

**STROBE TALBOTT**

Strobe Talbott is president of the Brookings Institution. Talbott, whose career spans journalism, government service, and academe, is an expert on U.S. foreign policy, with specialties on Europe, Russia, South Asia and nuclear arms control. As deputy secretary of

state in the Clinton administration, Talbott was deeply involved in both the conduct of U.S. policy abroad and the management of executive branch relations with Congress. He is the author of numerous books including, most recently, *Fast Forward: Ethics and Politics in the Age of Global Warming*, with William Antholis. Talbott holds degrees from Yale University and Oxford University.

**JOHN L. THORNTON**

John L. Thornton is Professor and Director of Global Leadership at Tsinghua University's School of Economics and Management in Beijing. Thornton is also Director of HSBC Holdings and a Director and non-executive Chairman of HSBC North America

Holdings Inc. He retired from his roles as President and member of the board of the Goldman Sachs Group, Inc in 2003. He was elected to the Brookings Board of Trustees in 2000 and was elected Chair of the Board of Trustees in 2003. Thornton received an A.B. in history from Harvard College, a B.A./M.A. in jurisprudence from Oxford University and an M.P.P.M. from the Yale School of Management. He is a director of the Ford Motor Company, News Corporation and China Unicom. Thornton is a trustee, advisory board member or member of the Asia Society, China Foreign Affairs University, China Institute, China Investment Corporation (CIC), China Reform Forum, China Securities Regulatory Commission (CSRC), Council on Foreign Relations, General Atlantic, McKinsey Knowledge Council, and the National Committee on U.S.-China Relations.

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TUNG CHEE HWA

Tung Chee Hwa is Vice Chairman of the Eleventh National Committee of the Chinese People's Political Consultative Conference. He is also the Founding Chairman of the China-United States Exchange Foundation ("CUSEF"). From July 1997 until March

2005, he served as First Chief Executive of the Hong Kong Special Administrative Region ("HKSAR"). Born in Shanghai, Mr. Tung has lived in Hong Kong, the United Kingdom, and the United States. He received his Bachelor of Science from the University of Liverpool.



WAN GANG

Wan Gang is Vice Chairman of the 11th Chinese People's Political Consultative Conference, Chairman of the China Zhi Gong Party, and Minister of Science and Technology. He holds degrees from the Northeast Forestry University, the Structural

Theories Research Institute of Tongji University, and the Department of Mechanical Engineering at the Technical University Clausthal of Germany. From 1991 to 2001, he worked as an engineer in the R&D Department and later as technical manager in Production and Planning Department of German Audi Corporation. He has also served as President of Tongji University.



WANG BINGHUA

Wang Binghua is Chairman of the State Nuclear Power Technology Corporation. He has previously served as Deputy President and Chief Engineer of Liaoning Qinghe Power Station, President of Liaoning Jinzhou Power Station, Chief Engineer

and Deputy President of Jilin Electric Power Industry Bureau, General Manager of Jilin Electric Power Company, Director of Power Distribution at the State Power Company, Vice President of the China National Nuclear Corporation, and President of the China Power

Investment Group Corp. Mr. Wang is a graduate of the Wuhan Hydraulic and Electric Power University.



ZHANG GUOBAO

Zhang Guobao is the Vice Chairman of the National Development and Reform Commission and Director of the National Energy Administration (minister level). Mr. Zhang was in the Ministry of Machinery Industry, the State Administration

of Foreign Expert Affairs of the State Council, the Machinery and Electronics Department and the Investment Department of the State Planning Commission, the National Machinery, Electronics, Light & Textile Industries Investment Corporation, the National Development and Reform Commission, and the Office of the Leading Group of Revitalizing the Old Industrial Basis in North East China. He has also taken the following positions: Deputy Director General of the Investment Department of the State Planning Commission, Deputy Secretary General and Vice Chairman of the State Planning Commission, Chairman of the Office of the Leading Group of Revitalizing the North East China and other Old Industrial Basis, Vice Chairman of the Capital Planning and Construction Commission, as well as the Political Commissar of the Gold Force of the Armed Police. From 1987 to 1988, he studied in Japan, majoring in international finance and trade as a visiting scholar. Mr. Zhang graduated from Department of Machinery Engineering, Xi'an Jiaotong University, with a Master's Degree of Engineering.



ZHANG XIWU

Zhang Xiwu is Secretary of the CPC Leadership Group & Chairman of Board of Directors of the Shenhua Group Corporation, Limited. Dr. Zhang also holds the post of Executive Director and Chairman of the Board at China Shenhua Energy Company,

Previously, he served as Deputy General Manager of the Northeast Inner Mongolia Coal Company and Member

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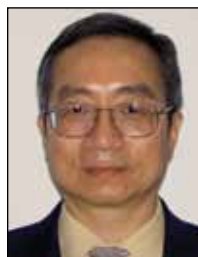
of the CPC Leadership Group and Deputy Chief of Bureau of the Coal Industry of Jilin Province.



ZHENG BIJIAN

Zheng Bijian is a well-known theorist and strategist in China. He is currently Director of the Academic Committee of the Central Party School, Dean of the College of Humanities of the Graduate School of the Chinese Academy of Sciences, Chairman

of the China Sciences and Humanities Forum, Senior Advisor to the China Institute for International Strategic Studies, and Senior Advisor to the Chinese People's Institute of Foreign Affairs. Previously, he served as Executive Vice Minister of the Publicity Department of the CPC Central Committee and Executive Vice President of the CPC Central Party School. He was also a member of the central committee of the 14th and 15th CPC Congresses.



ZHOU DADI

Zhou Dadi is Director General Emeritus and Senior Researcher of the Energy Research Institute of the National Development and Reform Commission. His other current professional positions include: Vice Chairman of the State Energy Expert Advisory

Committee, Member of the National Climate Change Expert Committee, Executive Vice President of the Board of Directors of the Chinese Society of Energy Research, Vice President of the China Institute of Geopolitics and Energy Strategy, and Vice Chairman of the National Innovation and Development Strategy Society. In 2007, Zhou was awarded with the Climate Protection Award by the United States Environmental Protection Agency.



ZHU YONGPENG

Zhu Yongpeng is President of the China Guodian Corporation, Chairman of the GD Power Development Co., Ltd, and Chairman of the Longyuan Electric Power Group Corporation, Ltd. Previously, Mr. Zhu has served as President

of SP Longyuan Power Technology and Engineering Company and President of SP Power Development Company. He graduated from the Northeast China Institute of Electric Power.

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NICK AKINS

Nick Akins is President of American Electric Power. Previously, he was president and chief operating officer for Southwestern Electric Power Company, serving approximately 439,000 customers in Louisiana, Arkansas and northeast Texas.

He received a bachelor's degree in 1982 in electrical engineering from Louisiana Tech University in Ruston and a master's degree in electrical engineering in 1986 from Louisiana Tech. He has completed executive management programs at Louisiana State University, the University of Idaho and the Reactor Technology Course for Utility Executives at the Massachusetts Institute of Technology. Akins is a registered professional engineer in Texas. He currently serves as the chairman of the Coal Utilization Research Council (CURC), and on the boards of the Electric Power Research Institute (EPRI), the Mid-Ohio Food Bank and the Greater Columbus Arts Council.



PRATIM BISWAS

Pratim Biswas is the Chairman of the Department of Energy, Environmental & Chemical Engineering at Washington University in St. Louis. He has more than 200 publications and holds four patents. He was the Conference Chair for the 15th

Annual Meeting of the American Association for Aerosol Research, Chair of the Critical Review Committee of the Air and Waste Management Association, an Associate Editor of the Aerosol Science and Technology Journal, and the Technical Program Chair of the 7th International Aerosol Conference. Professor Biswas is also the Director of the McDonnell Academy Global Energy & Environment Partnership (MAGEEP) and a member of the Steering Committee for I-CARES (International Center for Advanced Renewable Energy & Sustainability).



CHAI ZHIKUN

Chai Zhikun received a Bachelor's of Engineering from Beijing University of Civil Engineering and Architecture and a Doctorate in Economics from Renmin University. He is currently a visiting professor at both the University of International

Business and Economics and Beijing University of Civil Engineering and Architecture. Mr. Chai has extensive experience in engineering, project management and corporate operations. He has earned wide respect for his business acumen, breadth of vision and professional approach. He and his team have achieved great success in projects developed in Beijing, Shanghai, Hangzhou, Jinan and Huzhou.



WILLIAM CHANDLER

William Chandler is President of Transition Energy and Research Director for the Energy Transition Research Institute (Entri). He is a board member of the Environmental Law Institute and a member of the Committee on the Human Dimensions of

Climate Change of the National Academy of Sciences. He recently served as an external associate of the Carnegie Endowment. From 1988 to 2005, Chandler served as Senior Staff Scientist and Laboratory Fellow for the Pacific Northwest National Laboratory (PNNL) of the Battelle Memorial Institute. Earlier, he worked at Oak Ridge Associated Universities and the Worldwatch Institute. Chandler received the 1992 Champion of Energy-Efficiency Award from the American Council for an Energy Efficient Economy for his work in Eastern Europe. In 1999, he received the first Global Climate Leadership Award from the International Energy Agency for his work in China and Russia. He holds a B.S. from the University of Tennessee, and an M.P.A. from Harvard University.

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**DEVA CHARI**

Deva Chari is Senior Vice President for Nuclear Power Plants at Westinghouse. In this capacity, he is responsible for managing the global deployment of new power plants. Currently, areas of major focus include the implementation of current contracts for projects

in Korea, the United Arab Emirates (UAE), China and the U.S., and the development of new plant builds. He assumed this position in June 2010. Mr. Chari holds a Master's degree in Nuclear Engineering from North Carolina State University and has more than 30 years of experience in the nuclear power business with strong emphasis on the areas of project management and plant start-up operations.

**YI-TUNG CHEN**

Yi-Tung Chen is a professor at the University of Nevada Las Vegas. He is a researcher in the experimental and computational study of thermal/fluid/mass transfer, nuclear hydrogen production, high temperature heat exchanger and decomposer

design, corrosion modeling using cellular automaton and molecular dynamics, and chemical separation in the field of nuclear energy. He was appointed as Associate Technical Director of the Nuclear Hydrogen Initiative (NHI) Program at UNLV in 2006. He has published almost 70 refereed journal articles and more than 250 conference proceedings. He published "Computational Partial Differential Equations using MATLAB" in 2009. He is also an International Advising Committee member for the Asian Computational Fluid Dynamics. He was the President-elect of the Chinese in America Thermal Engineering Association (CATEA) in 2010.

IRENE CHIAO

Irene Chiao is an Associate for AES Corporation and is responsible for analysis, structuring, and execution of M&A transactions, with a primary focus on Asia. Prior to joining AES, Ms. Chiao was an Investment Analyst for four years at the International Finance Corporation, where her focus was on project financing for private manufacturing and services companies in emerging markets. In addition, Ms. Chiao has previously worked at Accenture's Strategy Practice as a Business Analyst and Clearwater Capital Partners, LLC, a Hong Kong based private equity fund, as a Summer Associate. Ms. Chiao holds an M.B.A. from the University of Chicago Booth School of Business and a B.S.B.A. from Georgetown University.

**PRESTON CHIARO**

Preston Chiaro is Group executive for Technology & Innovation for Rio Tinto. Prior to this he was the Chief Executive for Rio Tinto's energy and minerals product group. Preston remains the senior executive leading Rio Tinto's climate change and sustainable

development programs. He has served as chairman and on the Executive Committees of both the World Coal Institute and the Coal Industry Advisory Board of the International Energy Agency. Preston joined the Rio Tinto group in 1991 at Kennecott Utah Copper Company's Bingham Canyon mine as vice president, technical services. In 1995 he became vice president and general manager of Boron Operations in California, then chief executive of Rio Tinto Borax from 1999 to 2003. Chiaro received a B.S. and MA in environmental engineering from Rensselaer Polytechnic Institute.

**MARGARET CHU**

Margaret Chu holds a B.S. degree from Purdue University and a Ph.D. from the University of Minnesota, both in chemistry. She has focused on promoting safe nuclear energy and nuclear fuel cycles. She was the Director of the Office of Civilian Radioactive Waste Management at

PARTICIPANT BIOGRAPHIES

the Department of Energy between 2002 and 2005, where she led and implemented the management and disposal of the U.S.'s spent nuclear fuel and high-level waste. Prior to the DOE position, Dr. Chu worked at Sandia National Laboratories for 21 years, rising from a technical staff to the position of a Center Director. Currently, she provides consulting services to domestic and international clients in nuclear fuel cycle analysis and policy, nuclear waste management, nuclear security analysis, R&D strategy and management strategy.

**JON DAVIS**

Jon Davis is Chief Advisor, Energy Technology, and heads the Rio Tinto Energy Technology Group, which conducts technology reviews, manages collaborative research programs and provides technological input into Rio Tinto studies. His previous roles

in Rio Tinto were Principal Coal Technologist and Major Projects Manager. Jon is a metallurgist with a Ph.D. in coal processing. Prior to joining Rio Tinto, Jon lectured at the University of Queensland, conducted contract research for the mining industry, and was an Australian National Research Fellow in Beijing, working with the Chinese coal industry. Davis has held adjunct professorships at the University of Queensland and University of Melbourne. He sits on the boards of the Australian Coal Association Low Emission Technology Fund and the Australian National Low Emission Coal R&D Group.

**DENG YONG**

Deng Yong is Executive Vice President and Secretary General of the China Institute for Innovation and Development Strategy. He received his Bachelor's, Master's and Doctorate from Tsinghua University's Department of Engineering Mechanics and

stayed on as a professor following graduation. Dr. Deng served as Vice Secretary General and secretary General of the All-China Students Federation in 1995 and 1998, respectively. Since 2002, he has served as the Chairman

of the University Council and the Executive Vice President and the legal representative for the Graduate University of the Chinese Academy of Sciences (GUCAS). He was appointed Vice Secretary General of the Chinese Academy of Sciences in 2010.

**ERICA S. DOWNS**

Erica S. Downs is a Fellow at the John L. Thornton China Center at the Brookings Institution. Previously, she worked as an energy analyst at the Central Intelligence Agency, an analyst at the RAND Corporation, and a lecturer at the Foreign Affairs

College in Beijing, China. Downs's current research focuses on a complex set of issues related to the emergence of Chinese state-owned energy and mining companies as major buyers, owners and operators of natural resources around the globe. Downs holds a Ph.D. and an M.A. from Princeton University and a B.S. from Georgetown University.

**GEORGE DUDICH**

George Dudich is Senior Vice President of Business Development and Strategic Planning at The Babcock & Wilcox Company (B&W), where he advises the senior staff and Board of Directors on strategic direction and growth opportunities.

He most recently was Senior Vice President of Business Development for URS Corporation's Global Management & Operations Services group. From 1990 to 1999, he served in a number of positions of increasing importance at B&W, including Vice President of Business Development for the former B&W Services, Inc., operation in Lynchburg, Va.; Project Procurement Manager for Babcock & Wilcox Power Generation Group, Inc. in Barberton, Ohio; and Manager, ASRM Subcontracts, in the company's former Aerospace Components Division in Mount Vernon, Ind. Mr. Dudich holds a bachelor's degree in industrial management from The University of Akron.

PARTICIPANT BIOGRAPHIES



CHARLES EBINGER

Charles Ebinger is Senior Fellow and Director of the Energy Security Initiative at the Brookings Institution. Previously, he was a Senior Advisor at the International Resources Group, where he advised over 50 governments on various aspects of their energy policies.

Dr. Ebinger has special expertise in South Asia, the Middle East, and Africa and has also worked in the East, Southeast, and Central Asia, Eastern Europe, and Latin America. Dr. Ebinger is also an Adjunct Professor at the Johns Hopkins University's Nitze School of Advanced International Studies. He received his B.A. from Williams College and his Master's and Ph.D. degrees from the Fletcher School of International Law and Diplomacy at Tufts University.



MICHAEL T. ECKHART

Michael T. Eckhart is founding President of the American Council On Renewable Energy (ACORE) and ACORE's U.S.-China Program. He organized the CEO and Finance panels at BIREC 2005, the Great Wall Renewable Energy Forum in 2006,

and the Washington International Renewable Energy Conference (WIREC) meeting in 2008. Mr. Eckhart serves on the governing Bureau of the REN 21 global policy network and is U.S. chair of the World Council for Renewable Energy. Previously, he was Chairman & CEO of United Power Systems, Inc.; Vice President venture capital firm Areté Ventures, Inc.; the strategic planner of General Electric Company's power systems sector; and a Principal with the energy practice of Booz, Allen & Hamilton. He received a degree in Electrical Engineering from Purdue University and an MBA from Harvard Business School.



FANG WENQUAN

Fang Wenquan is the Chairman of the Board of Tianda Group Limited and Tianda Institute. Tianda Group is a fully integrated global corporation based in the Asia Pacific region and expands across the world. Tianda Institute was established in Hong Kong

by Mr. Fang, as a non-profit research organization dedicated to conducting strategic and policy studies on China's economic and social development, foreign relations and regional security. The Tianda Group primarily focuses on the development of health industries, in particular the pharmaceutical, biotechnology, and healthcare industries. In addition, Tianda Group is dedicated to the investment and development in mining, energy and other natural resources, as well as financial services business. The Group is headquartered in Hong Kong with "Caring for a Better World" as its mission and tenet.



SARAH M. FORBES

Sarah M. Forbes leads the World Resources Institute's (WRI) work on Carbon Dioxide Capture and Storage. Previously, Sarah worked at the National Energy Technology Laboratory (NETL), where she led the roadmap development for the Department

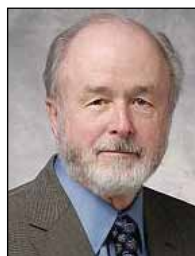
of Energy's carbon sequestration research program, chaired the outreach working group for the regional sequestration partnerships and conducted analyses on environmental aspects of CCS, the energy-water nexus, and climate change. She authored an early paper on regulatory barriers to CCS technology deployment in 2001 and has contributed to numerous high-level reports, including the CCS Roadmap published by the International Energy Agency in 2009, and the U.S.-China CCS roadmap published by the Center for American Progress. Sarah has bachelor's and master's degrees in biology from Wheaton College in Illinois and Mississippi State University.

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**CHARLES FREEMAN**

Charles Freeman holds the Freeman Chair in China Studies at CSIS. He concentrates on the political economy of China and other parts of East Asia and on U.S.-China relations, particularly trade and economic relations.

During his government career, he served as assistant U.S. trade representative (USTR) for China affairs. Outside of government, as a lawyer and business adviser, he has counseled corporations and financial institutions on strategic planning, government relations, market access, mergers and acquisitions, corporate communication, and political and economic risk management in China. Freeman received his J.D. from Boston University School of Law, where he was an editor of the Law Review and graduated with honors. He earned a B.A. from Tufts University in Asian studies, concentrating in economics, also with honors.

**JOHN GILLELAND**

John Gilleland is the leader and one of the founders of TerraPower, LLC, a nuclear technology and design company. Gilleland founded and served several years as CEO of Archimedes Technology Group, created to develop new technical solutions to nuclear-weapons-

waste problems. Previously, at Bechtel, Gilleland served as Vice President of Energy Programs. Earlier, Gilleland was the U.S. Managing Director of the International Thermonuclear Experimental Reactor (ITER) program during the Conceptual Design Phase. Gilleland also served as Sr. Vice President of General Atomics, where he was responsible for establishing the DIIIID experimental fusion program. Gilleland received his B.S. from Yale, and an M.S. and Ph.D. in physics from the University of Michigan. He is a member of the American Nuclear Society and the American Physical Society.

**KELLY SIMS GALLAGHER**

Kelly Sims Gallagher is Associate Professor of Energy and Environmental Policy at The Fletcher School. She is a faculty associate of the Center for International Environment and Resource Policy's (CIERP), and its Energy, Climate, and Innovation

(ECI) research program. She is also Senior Research Associate and a member of the Board of Directors of Belfer Center for Science and International Affairs at Harvard University, where she previously directed the Energy Technology Innovation Policy (ETIP) research group. A Truman Scholar, she has a MALD and Ph.D. in international affairs from The Fletcher School and an AB from Occidental College. She speaks Spanish and basic Mandarin Chinese.

**JOHN GROSSENBACHER**

John Grossenbacher is the Director of the Idaho National Laboratory and President of Battelle Energy Alliance, LLC (BEA). Before joining Battelle, Mr. Grossenbacher had a distinguished career with the U.S. Navy, achieving the rank

of Vice Admiral and Commander of the U.S. Naval Submarine Forces. He earned a bachelor of science degree in Chemistry from the U.S. Naval Academy, and he holds an M.A. in International Relations from the Johns Hopkins University. In addition, he completed the Harvard University Graduate School of Business Administration Program for Management Development. As Commander of the U.S. Naval Submarine Forces, Vice Admiral Grossenbacher led the integration and consolidation of the U.S. Navy's Atlantic and Pacific submarine forces.

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STEPHEN HADLEY

Stephen Hadley is Senior Advisor for International Affairs at the United States Institute of Peace. From 2005 to 2009, he was assistant to the president for National Security Affairs. Prior to that, he was the assistant to the president and deputy national

security adviser. From 1993 to 2001, Steve was both a partner in the Washington D.C. law firm of Shea and Gardner and a principal in The Scowcroft Group. From 1989 to 1993, Steve served as the assistant secretary of defense for international security policy under then Secretary of Defense Dick Cheney. Steve graduated magna cum laude and Phi Beta Kappa from Cornell University in Ithaca, New York, in 1969. In 1972, he received his J.D. degree from Yale Law School in New Haven, Connecticut, where he was Note and Comment Editor of the Yale Law Journal.



PAUL HANRAHAN

Paul Hanrahan is President and CEO of AES. Previously, Mr. Hanrahan was the Chief Operating Officer and Executive Vice President of AES where he was responsible for business development activities and the operation of multiple electric

utilities and generation facilities in Europe, Asia, and Latin America. Mr. Hanrahan was previously the President and CEO of AES China Generating Co. Ltd. He also managed other AES businesses in the U.S., Europe, and Asia. Prior to joining AES, Mr. Hanrahan served in the U.S. Navy as a line officer on a fast attack nuclear submarine. Mr. Hanrahan is a member of the board of directors of Corn Products International, Inc. and Chairman of the Compensation Committee. He is a graduate of Harvard Business School and the U.S. Naval Academy.



DAVID G. HAWKINS

David G. Hawkins joined the Natural Resources Defense Council's (NRDC) Washington, DC office in 1971 as one of the organization's first staff members. In 1977, Mr. Hawkins was appointed by President Carter as Assistant Administrator for Air,

Noise, and Radiation at the Environmental Protection Agency. With President Reagan's election in 1981, Mr. Hawkins returned to NRDC to co-direct NRDC's Clean Air Program. In 1990, Mr. Hawkins became Director of NRDC's Air and Energy Program, and in 2008 he became the Director of NRDC's Climate Programs. Mr. Hawkins currently serves on the boards of the Woods Hole Research Center, Center for Clean Air Policy, Resources for the Future, and the Board on Environmental and Energy Systems of the National Academy of Sciences. He is also a member of the U.S. Department of Energy's Climate Change Science Program Product Development Advisory Committee.



ANTHONY HECHANOVA

Anthony Hechanova joined the Institute of Applied Technology in Abu Dhabi, United Arab Emirates in August 2010 as the Head of the Nuclear Technology Division. Prior to this move, Dr. Hechanova was the Associate Executive Director for Sustainable

and Clean Energy Programs at the Harry Reid Center for Environmental Studies, University of Nevada, Las Vegas. He joined UNLV as a research professor in 1995 and was tasked to develop the university's nuclear research programs in 2001. Dr. Hechanova received an M.S. and Ph.D. in Nuclear Engineering from the Massachusetts Institute of Technology; and, a B.S. and M.S. in Mechanical Engineering from the University of California, Davis.

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**STEVEN "MAC" HELLER**

Steven "Mac" Heller is the Co-Chairman and Interim CEO of CODA Automotive, an electric car and battery company headquartered in Santa Monica, Calif. Mac brings more than 20 years of investment banking experience to CODA. He began

his career at Goldman Sachs in 1982 and advanced through the executive ranks to become Worldwide Head of Mergers and Acquisitions in 1996. In 1999, Mac was also named Worldwide Co-Head of Goldman Sachs' Investment Banking Division, where he played a lead role in numerous M&A and financing transactions until his retirement in 2002. Mac is a member of the Board of Directors of the Electric Drive Transportation Association (EDTA), a Washington D.C.-based think-tank dedicated to the promotion of electric drive technology, and is a member of the Electrification Coalition, a non-partisan, not-for-profit group of business leaders committed to promoting policies and actions that facilitate the deployment of electric vehicles on a mass scale. Mac received undergraduate and Juris Doctor degrees from Harvard College and Harvard Law School.

**CARLA A. HILLS**

Carla A. Hills is chairman and chief executive officer of Hills & Company, an international consulting firm providing advice to U.S. businesses on investment, trade, and risk assessment issues abroad, particularly in emerging market economies. As U.S.

trade representative from 1989 to 1993, she was the president's principal adviser on international trade policy as well as the nation's chief trade negotiator, representing American interests in multilateral and bilateral trade negotiations throughout the world. Ms. Hills is actively involved with a number of organizations, serving as chair of the Inter-American Dialogue and of the National Committee on U.S.-China Relations, co-chair of the international advisory board of the Center for Strategic and International Studies,

member of the executive committee of the Peterson Institute for International Economics and of the Trilateral Commission, and member of the board of the International Crisis Group, among others.

**RODERICK M. HILLS**

Roderick M. Hills is partner of Hills Stern & Morley LLP and the founder and Chairman of the Hills Program on Governance at the Center for Strategic and International Studies ("CSIS") with Governance Centers at leading academic institutions in Asia, Latin

America and Africa. He served as Counsel to President Ford and as Chairman of the Securities & Exchange Commission (1975-1977). Mr. Hills is a Trustee of the Committee for Economic Development (1977-) and its Co-Chairman (2005-2008). He was a founder, former Chairman and currently the Vice-Chairman of the US-ASEAN Business Council. Following his graduation from the Stanford Law School, he served as a law clerk to Justice Reed of the United States Supreme Court.

**S. T. HSIEH**

S. T. Hsieh is the Founding Director of the US/China Energy and Environmental Technology Center (EETC) at the Payson Center, Tulane University. Through the EETC, officially established in 1997, Dr. Hsieh facilitates a forum of information

exchanges on energy and environmental technologies between governments, international organizations and the community enabling identification and propagation of opportunities for U.S.-China clean energy ventures. Dr. Hsieh oversees the day to day operation in the New Orleans, Beijing, and Shanghai offices wherein project development, U.S./China joint studies on environment and energy issues, and pilot projects to produce near and midterm emissions reductions in China through joint U.S./Chinese efforts are the key focus.

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**HUANG RENWEI**

Huang Renwei is Vice President and professor of Shanghai Academy of Social Sciences. He is also Vice Chairman of the Chinese Association of International Relations, Chairman of the Shanghai Association for American Studies, Director of the

Pudong Institute for U.S. Economy, and Senior Fellow of Cross Strait Research Center. Dr. Huang has published many books and articles on Sino-U.S. relations, regional cooperation in Asia, international trade and cross-Strait relations. His recent books include *The Time and Space of China's Rise*, which has been widely quoted in the academic community.

**C.S. KIANG**

C.S. Kiang is Chairman of the Board of Directors at the Sustainable Development Technology Foundation. Professor Kiang was the Founding Dean of the College of Environmental Sciences at Peking University from 2002 to 2006, and

was Chairman of the Peking University Environment Fund from 2006 to 2009. He spent more than thirty years in the U.S., serving as Head of the Aerosol Program at the National Center for Atmospheric Research, Director of the School of Geophysical Sciences, and Director of Office of Environmental Sciences, Technology and Policy at Georgia Institute of Technology. He was the Founding Director of the Southern Oxidant Study, a strategic alliance between public and private academic institutions. Dr. Kiang serves as an advisor to many international organizations, including Councillor for the World Future Council, Advisory Board of Climate Change Capital, International Council of the Asia Society, Global Agenda Council of Climate Change of the World Economic Forum, KAPSARC International Advisory Council (IAC), President's Advisory Group of the EastWest Institute, and Global Elders.

**KLAUS KLEINFELD**

Klaus Kleinfeld is chairman and chief executive officer of Alcoa. He joined the company in 2007 as president and chief operating officer and seven months later assumed CEO responsibilities. He has served on Alcoa's board of directors since 2003 and was

named chairman in 2010. Alcoa is a world leader in the production and management of a highly sustainable product—aluminum—and is a leader in the aerospace, defense, transportation, packaging, and building and construction markets. He was elected to the Brookings Institution Board of Trustees in 2010. Before joining Alcoa, Mr. Kleinfeld had a 20-year career with Siemens, the electronics and industrial conglomerate, where he served as CEO of Siemens AG from 2005 to 2007. There, he presided over a dramatic transformation of the company, reshaping Siemens' portfolio around three high-growth areas, driving a revenue increase and a near-doubling of market capitalization. Prior to his service on the Managing Board of Siemens AG, Mr. Kleinfeld was president and CEO of Siemens Corporation, the company's U.S. arm representing its largest region. In addition to Brookings, Mr. Kleinfeld also serves on the Supervisory Board of Bayer AG, and he is the Chair of the U.S.-Russia Business Council. He holds a Ph.D in strategic management from the University of Wuerzburg and a master's degree in business administration from the University of Goettingen, both in Germany.

**Bo KONG**

Bo Kong is Professorial Lecturer of Energy, Resources, and Environment and Director of the Global Energy and Environment Initiative (GEEI) at the Johns Hopkins University School of Advanced International Studies (SAIS), and sits on the Advisory

Board of the Revenue Watch Institute. Previously, he consulted on Chinese companies' energy and mining operations in Africa for the Ayrli Partners and the World Wildlife Fund (WWF), was a visiting scholar

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at the Institute for Global Dialogue (IGD) in South Africa, and conducted field research in Angola on China's petroleum investment. He received his B.A. in International Trade from Nankai University in Tianjin, China and his M.A. in American Foreign Policy and International Economics and Ph.D. in China Studies and International Energy Policy from the Johns Hopkins School of Advanced International Studies.

**JONATHAN LASH**

Jonathan Lash is president of the World Resources Institute (WRI). In 2005, he was named one of the world's Top 100 Most Influential People in *Finance in Treasury & Risk Management* magazine, the only leader of a non-profit environmental organization to

make the list. The same year *Rolling Stone* included him among "Twenty-five leaders who are fighting to stave off planet-wide catastrophe." The article concluded that Mr. Lash "has arguably done more than any other environmentalist to bridge the bitter divide between industry interests and green groups determined to halt global warming." A former co-chair of President Clinton's Council on Sustainable Development, Secretary of Natural Resources for the State of Vermont, Federal Prosecutor, law professor, and Peace Corps volunteer, Mr. Lash serves on the Advisory Board of Generation Investment Management.

**MICHAEL A. LEVI**

Michael A. Levi is the David M. Rubenstein senior fellow for energy and the environment at the Council on Foreign Relations (CFR) and director of the CFR program on energy security and climate change. Before joining CFR, Dr. Levi was a nonresident

science fellow and a science and technology fellow in foreign policy studies at the Brookings Institution. Prior to that, he was director of the Federation of American Scientists' Strategic Security Project. Dr. Levi holds a BSc (Hons.) in mathematical physics from Queen's University (Kingston) and an MA in physics from

Princeton University, where he studied string theory and cosmology. He holds a Ph.D. in war studies from the University of London (King's College), where he was the SSHRC William E. Taylor fellow.

**JONATHAN LEWIS**

Jonathan Lewis is an attorney and climate specialist with the Clean Air Task Force. He works with companies, governments, and citizen groups on state, national, and international initiatives to address climate change. Jonathan co-founded two organizations

designed to promote these kinds of partnerships, the Asia Clean Energy Innovation Initiative and the Asia Clean Coal Initiative, and has organized several Executive Roundtables in China and the United States on topics including carbon capture and storage, underground coal gasification, and advanced solar thermal power generation. Before joining the Clean Air Task Force in 2001, he worked for the Ocean Law Project, The Nature Conservancy, and the City of Boston Environment Department's Conservation Commission.

**LI HUIGUO**

Li Huiguo is currently Vice Council Chairman of the China Institute for Innovation and Development Strategy. He has degrees in philosophy from Renmin University and Peking University and was a visiting scholar at the University of

Munich's Institute for Theory of Science and Statistics from 1980 to 1982. In 1985, Mr. Li was appointed Deputy Director of the Institute of Philosophy at Chinese Academy of Social Sciences (CASS) in 1985. From 1988 to 2000, he served as Director of CASS's Center for Documentation and Information. Professor Li has also been President of China Information Society of Social Sciences, Vice President of Chinese Association for Science of Science and S&T Policy, Vice President of Institute for Philosophy of Science and Technology, and Member of the CASS Academic Council.

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KENNETH LIEBERTHAL

Kenneth Lieberthal is Senior Fellow in Foreign Policy and in Global Economy and Development and is also Director of the John L. Thornton China Center at the Brookings Institution. He is also Professor Emeritus of Political Science

and of Business Administration at the University of Michigan. Dr. Lieberthal served as Special Assistant to the President for National Security Affairs and Senior Director for Asia on the National Security Council from August 1998 through October 2000. Dr. Lieberthal has written and edited sixteen books and monographs and authored about seventy periodical articles and chapters in books. His recent books and monographs include: *Chinese Politics: New Sources, Methods, and Field Strategies* (contributing coeditor); *Overcoming Obstacles to US-China Cooperation on Climate Change*; and *China's Search for Energy Security: Implications for US Policy*. Dr. Lieberthal has served as a consultant for the U.S. Departments of State, Defense, and Commerce, the World Bank, the Kettering Foundation, and the Aspen Institute, among others.



LING WEN

Ling Wen is President and CEO of China Shenhua. Dr. Ling is also the Executive Director, President & CEO of China Shenhua Energy Company, Limited. Previously Dr. Ling was a lecturer at Harbin Institute of Technology (HIT).

He holds a Ph.D. in Engineering and conducted his post-doctoral research at Shanghai Jiaotong University. Dr. Ling has served as Director of the Industry and Communication Loan Department and Deputy General Manager of the International Business Department of the Industrial and Commercial Bank of China.



GAVIN-XINGANG LIU

Gavin Liu is Vice President and Managing Director of China Westinghouse Electric Company. Mr. Liu started to work in the Chinese power industry in 1991. His experience has crossed coal-fired plants, hydro plants, gas turbines, and has combined

cycle plants and nuclear power plants. Since 1994, he has dedicated his work to nuclear power projects, accumulating experience in the fields of project management, nuclear business development, product marketing, government relationship cultivation, customer communications, strategic plan development, and execution. Through his efforts, System 80 technology was well-recognized and qualified as a preferred technology in China in 1998. In 2006, AP1000 was selected as the winning technology for China Gen III Self-reliance Supporting Projects. Mr. Liu began his career as a Quality Assurance engineer working at the Electric Power Construction Research Institute of the Ministry of Environment Protection. Mr. Liu holds degrees from Tsinghua and Peking universities.



PEGGY LIU

Peggy Liu is Chairperson of JUCCCE. She was honored as a Time Magazine 2008 Environmental Hero and a World Economic Forum Young Global Leader 2009. Ms. Liu was an adviser to the Clinton Global Initiative 2008 on Energy

& Climate Change. Most recently, Ms. Liu was COO of Mustang Ventures. She was General Manager of Consumer Applications at Zaplet, a dynamic email communications platform and was VP of Marketing at SeeUthere.com. As an independent advisor, she consulted ecommerce companies on strategy, fundraising, and business partnerships. In 1996, Ms. Liu co-founded and was CEO of Channel A, one of the earliest business-to-consumer ecommerce web sites. As Product Manager at Symantec, she managed the Macintosh development tools line, helped launch Symantec C++ for Windows, and built the OEM channel

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for Symantec's Norton Group. She has a B.S. from MIT in Electrical Engineering and Computer Science.

**LIU CHANGLE**

Liu Changle is the Chairman and Chief Executive Officer of Phoenix Satellite Television Holdings, Limited. He founded Phoenix Satellite Television in 1996. Mr. Liu has gained widespread recognition both locally and overseas for his enthusiasm for

and achievements in the media industry. Mr. Liu is the recipient of numerous titles and awards and has received the International Emmy® Directorate Award. Mr. Liu is an honorary professor at many mainland universities and was appointed to the board of directors of Nanjing University and Tongji University. He also holds membership in the 10th and 11th National Committee of Chinese People's Political Consultative Conference and currently serves as Vice Chairman of the Subcommittee of Education, Science, Culture, Health and Sports of the Eleventh National Committee of the Chinese People's Political Consultative Conference.

**MA LU**

Ma Lu is Vice President and General Counsel at the State Nuclear Power Technology Corporation. Previously, she worked as Deputy General Manager of Departments Six and Two and Vice President of China National Technical Import

& Export Corporation. She received her doctorate in Vehicle Engineering from the Beijing Institute of Technology and completed an EMBA at the University of Texas – Arlington.

**LOU JIWEI**

Lou Jiwei is the Chairman and Chief Executive Officer of China Investment Corporation. Immediately prior to this, he served as Deputy Secretary General (ministerial level) of the State Council. Previously he served as Executive Deputy

Minister of Finance, Deputy Governor of Guizhou Province, and Director General of the Macroeconomic Control Department of the State Commission for Restructuring the Economic System. Mr. Lou received a Master's degree in economics from the Chinese Academy of Social Sciences and a Bachelor's degree from Tsinghua University.

**WILLIAM F. MARTIN**

William F. Martin is a former Deputy Secretary of Energy, Special Assistant to the President, and Executive Secretary of the National Security Council during the administration of Ronald Reagan. He currently serves as Chairman of the Nuclear Energy

Advisory Committee (NEAC) and is Chairman of Washington Policy and Analysis. A graduate of the University of Pennsylvania and MIT, Mr. Martin also served as Chairman of the Council on Foreign Relations' Energy Security Group, President of the Council of the University for Peace of the United Nations and project director for a United Nations group evaluating energy scenarios for North Korea. He has had numerous publications, including an article in the *Harvard Business Review* and was the lead author of a Trilateral Commission study, *Maintaining Energy Security in a Global Context*.

**KEVIN McLEAN**

Kevin McLean is Sr. Vice President of Marketing at Eaton Electrical Sector. In this role, he is responsible for Marketing, Marketing Communications, Strategic Segments, Major Accounts and Business

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Development for Eaton's electrical business. Prior to this, McLean was President of Electrical's Asia Pacific Region and was located in Shanghai, China. McLean started his career with Westinghouse Electric Corp. in 1981, serving in a variety of positions including sales engineer and product line manager. He joined Eaton in 1994 and has since held a series of management positions within Eaton's Electrical Group, including plant manager of the Horseheads Vacuum Interrupter plant, general manager of the Electrical Group's Canadian operations and vice president of the Electrical Group's global sales organization. McLean has 28 years of combined Westinghouse and Eaton service. He holds a Bachelor of Science degree in Mining Engineering from the University of Pittsburgh.

**YANCY MOLNAR**

Yancy Molnar joined the ACE Group of Companies as Vice President for International Government Affairs in August 2009. He is responsible for representing the Company on ACE-related international issues before the Administration,

Congress, key associations, and foreign governments. Prior to joining ACE, Mr. Molnar served as Director, Public Policy, for Chrysler Group LLC. In this role, he was responsible for various public policy issues including international trade, climate change and manufacturing competitiveness. He was actively involved in working with the U.S. Administration and Congress to secure government loans for Chrysler during the financial crisis. Prior to his role with Chrysler Group LLC, Mr. Molnar was with DaimlerChrysler's Northeast Asia headquarters in Beijing, China, where he was responsible for external affairs. Previously, Mr. Molnar was with an international trade advisory firm. Mr. Molnar holds a Master of Science in Business from Johns Hopkins University and a Bachelor of Arts degree from Bucknell University.

**CHRISTOFER M. MOWRY**

Christofer M. Mowry is the President of Babcock & Wilcox Nuclear Energy, Inc, where he oversees B&W's commercial nuclear business and leads the development, licensing, and delivery of the B&W mPower™ nuclear reactor. Previously, Mr.

Mowry served as President and Chief Operating Officer of Welding Services, Inc. (WSI). Prior to this position, Mr. Mowry served as President of GE Reuter-Stokes in Cleveland, Ohio, General Manager for Commercial Solutions within GE Energy Management Systems in Atlanta, Georgia, and General Manager of GE Hydro Projects in Oslo, Norway. Mr. Mowry currently serves on the Nuclear Energy Institute's board of directors. Mr. Mowry holds an M.S. in mechanical engineering from Drexel University in Philadelphia, PA, as well as a B.S. in engineering and a B.A. in astronomy from Swarthmore College.

**MARK NORBOM**

Mark Norbom began his career with GE in 1980 through the Financial Management Program, and moved to Taiwan in 1993 to head GE Capital's efforts in that market. In 1995, he became head of GE Capital Indonesia, and in 1998, became President of GE

Capital and GE National Executive in Thailand. In 2000, Mr. Norbom became President and CEO of GE Capital Japan and later assumed the role of President and CEO, GE Japan. Mr. Norbom joined Prudential Corporation Asia at the end of 2003 as Chief Executive and in early 2007 served as an advisor to Cerberus Asia Pacific. In October 2007, Mark rejoined GE as President & CEO of GE Japan Ltd., and in April 2008, he was appointed to President & CEO of GE Greater China. Mr. Norbom received his B.A. in economics from Pennsylvania State University.

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**OUYANG MINGGAO**

Ouyang Minggao is a Standing Committee member of the Chinese People's Political Consultative Conference (CPPCC), Vice Director of the Academic Committee of Tsinghua University, director of the State Key Laboratory of Automotive

Safety and Energy at Tsinghua University, leading expert for the 11th Five-Year 'Energy-saving and New Energy Vehicle' Plan, Vice President of the Chinese Automotive Engineering Society, and Vice Chairman of the Chinese Internal Combustion Engine Society. In addition, Professor Ouyang has been a member of many important projects for the China Ministry of Science and Technology, has published more than 200 papers (129SCI/ EI Index) and has applied for 47 invention patents (27 patents granted).

**PAN ZHENQIANG**

Pan Zhenqiang is currently Deputy Chairman of the China Foundation for International Studies. He is also Senior advisor to the China Reform Forum (CRF); Director of the Research Institute for Strategy and Management of the Central University of Finance

and Economics in China; and adviser to the College of Defense Studies at the People's Liberation Army's National Defense University. A retired Major General, Pan served in the Department of the General Staff and was director at the Institute of Strategic Studies of the National Defense University (NDU) until his retirement in August 2001. General Pan graduated from Zhongshan University and the National Defense University. He has been a research fellow at a number of U.S. universities, including the U.S. National Defense University (1987), Stanford University (1988-1989), and Harvard University (1999 and 2000 respectively).

**PATRICIA PAVIET-HARTMANN**

Patricia Paviert-Hartmann is senior research advisor and co-director of the Institute of Nuclear Energy Science and Technology (INEST) for the Idaho National Laboratory. She is also an adjunct professor at the University of

Nevada, Las Vegas (UNLV). Previously, she worked for the MOX project as an AREVA NP advisory scientist. She authored two patents during her Ph.D., and had contributed to improve the French wastes reprocessing, which is a very important part of the French nuclear policy. She has authored or co-authored 40 publications and 30 technical reports (CEA, LANL, AREVA). She is a member of the international committee of the American Nuclear Society.

**PENG SUPING**

Peng Suping is a professor of coal geology and geophysics at the China University of Mining & Technology, academician at the Chinese Academy of Engineering, and Director of the state key laboratory for "Coal Resource and Safe Mining." In addition,

Dr. Peng is a member of the state expert advisory committee for Energy, the expert advisory committee for the National Major Basic Projects in energy, the 4th coal resources prediction leading group, and the World Resources Institute's China advisory committee. He has published seven academic books and more than 100 academic papers. Dr. Peng also holds 11 Chinese invention patents.

**JONATHAN D. POLLACK**

Jonathan D. Pollack is a senior fellow with the John L. Thornton China Center. Before his appointment at Brookings, he was professor of Asian and Pacific Studies and chairman of the Asia-Pacific Studies Group at the Naval War College. He is also a research

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associate in the National Asia Research Program of the National Bureau of Asian Research and the Woodrow Wilson International Center for Scholars. Prior to joining the War College faculty, he was affiliated with the Rand Corporation, where he served in various research and senior management capacities. A specialist on East Asian international politics and security, he has published extensively on Chinese political-military strategy, U.S.-China relations, the political and security dynamics of the Korean Peninsula, and U.S. strategy and policy in Asia and the Pacific.

**DANIEL B. PONEMAN**

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. 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. 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. Immediately prior to assuming his responsibilities as Deputy Secretary, Mr. Poneman served as a principal of The Scowcroft Group for eight years. Mr. Poneman received A.B. and J.D. degrees with honors from Harvard University and an M.Litt. in Politics from Oxford University.

**QIAN ZHIMIN**

Qian Zhimin is Deputy Director of the National Energy Administration of PRC. He graduated from Shanghai Jiao Tong University with a Master's degree in Engineering. Qian participated in the construction of

Guangdong Daya Bay Nuclear Power Station and Ling Ao Nuclear Power Station Phase I. He was also Project Manager of LNPS Phase I, Guangdong Nuclear Power Joint Venture Co.

**ORVILLE SCHELL**

Orville Schell is the Arthur Ross Director of the Center on U.S.-China Relations at the Asia Society in New York. He is a former professor and Dean at the University of California, Berkeley's Graduate School of Journalism. Schell is the author

of fourteen books and a contributor to numerous edited volumes. His most recent books include: *Virtual Tibet* and *The China Reader: The Reform Years*. He is also a contributor to such magazines as *The New Yorker*, *The Atlantic*, *The New York Times Magazine*, *Newsweek*, *Mother Jones*, *The China Quarterly*, and *The New York Review of Books*. Schell received his B.A. from Harvard University, was an exchange student at National Taiwan University in the 1960s, and earned a Ph.D. (ABD) at University of California, Berkeley in Chinese History. He is a member of the Council on Foreign Relations and a regular participant in the World Economic Forum at Davos.

**SHI DINGHUAN**

Shi Dinghuan is a Counselor of the State Council, President of the Chinese Renewable Energy Society (CRES), member of the Mid- and Long Term Project Planning Office for National Science and Technology Development, and leader of its

Strategic Research Group. Previously, Mr. Shi was Secretary General of the Ministry of Science and Technology. He has long been responsible for the research and formulation of strategies and policies for energy, science and technology management, and technology development.

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**SHI YANHUA**

Shi Yanhua entered the Foreign Ministry in 1965 and started her diplomatic career as an interpreter for Chinese leaders, particularly Deng Xiaoping and Lixiannian. She served in the Permanent Mission of China to the U.N. in New York, Chinese Embassy in

Belgium and Mission to the European Communities in Brussels as political counselor. In 1991, Ms. Shi was appointed to Director-General of the Translation and Interpretation Department of the Foreign Ministry. She was ambassador to Luxembourg from 1994 to 1998 and Minister Counselor of the Chinese Embassy in France. Since 2003, she has been working in the Translation Department as a language expert. She is now Executive Vice-Chairman of the Translators Association of China.

**KATHERINE SIERRA**

Katherine Sierra is a senior fellow in Global Economy and Development at the Brookings Institution. As vice president for sustainable development at the World Bank, she oversaw the Bank's global environment, infrastructure and agricultural

activities and led its climate change strategy—including creation of the \$6.5 billion Climate Investment Funds and management of \$2.5 billion in Carbon Finance funds. Ms. Sierra has considerable country experience in East Asia, including managing the urban and environment program for China, and in Latin America, focusing in particular on infrastructure. She has Bachelor of Arts degrees in anthropology and Hispanic civilization from the University of California at Santa Barbara (1976); a master's degree in city and regional planning from Harvard's Graduate School of Design (1978), and graduated from the Harvard Business School's General Managers Program in 1998.

**TAIYA SMITH**

Taiya Smith is a senior advisor at the United Nations Foundation, with a focus on financing low-carbon infrastructure projects in developing countries. She also works with the World Wildlife Fund supporting U.S.-China cooperation. Previously she was

a senior associate in the Carnegie Energy and Climate Program and the Carnegie Asia Program. Smith served on Secretary Hank Paulson's senior management team from 2006 to 2009 as the deputy chief of staff and executive secretary for the U.S. Department of the Treasury. Prior to joining Treasury, Smith served as special assistant to deputy secretary of state Robert B. Zoellick from July 2005 to July 2006. From March 2004 through July 2005, Smith was the State Department's point person on the Darfur situation. Smith received her M.A. in Public Policy from the Kennedy School of Government and her B.A. from Wesleyan University.

**ERIC SPIEGEL**

Eric Spiegel is President and Chief Executive Officer of the Siemens Corporation. Mr. Spiegel is a member of the Business Roundtable, the U.S. Climate Action Partnership (USCAP), and the U.S. Chamber of Commerce.

Before joining Siemens, he had been at Booz Allen Hamilton from 1986-2007, most recently as a Senior Vice President and Managing Partner of Booz & Company's Global Energy, Chemicals and Power consulting practice until this year. While at Booz, Mr. Spiegel was also the Managing Director of Booz Allen Hamilton International, living in Tokyo from 1999-2003. He is a co-author of the 2009 book *Energy Shift: Game-changing Options for Fueling the Future*. Mr. Spiegel holds an MBA from the Amos Tuck Graduate School of Business Administration at Dartmouth College (Edward Tuck Scholar) and received his B.A. with Honors in Economics from Harvard University (Harvard Scholar).

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EDWARD STEINFELD

Edward Steinfeld is an associate professor of political economy in the MIT Department of Political Science. Steinfeld directs the MIT China Program (MISTI), and co-directs the MIT Industrial Performance Center's China Energy Group.

Much of Dr. Steinfeld's current research focuses on the growth, regulation, and performance of China's energy sector. While at MIT, Dr. Steinfeld has also served as a consultant to the World Bank, the International Finance Corporation, and a variety of both public and private sector organizations. He currently serves as a director of the National Committee on U.S.-China Relations.



TODD STERN

Todd Stern was named by Secretary Clinton as the Special Envoy for Climate Change on January 26, 2009. Mr. Stern plays a central role in developing the U.S. international policy on climate and is the Administration's chief climate negotiator, representing

the United States internationally at the Ministerial level in all bilateral and multilateral negotiations regarding climate change. Mr. Stern also participates in the development of domestic climate and clean energy policy. Previously, Mr. Stern was a Senior Fellow at the Center for American Progress, and a partner at the law firm WilmerHale. Mr. Stern served in the White House from 1993 to 1999 as Staff Secretary. Mr. Stern has also served as an Adjunct Lecturer at Harvard's Kennedy School of Government and a Resident Fellow at the German Marshall Fund of the United States.



SUN QIN

Sun Qin is President of the China National Nuclear Corporation. He has previously served as Vice Minister in the National Development and Reform Commission's National Energy Administration, Vice Minister of

the Commission of Science, Technology and Industry for National Defense, and Chairman of the China Atomic Energy Authority. Mr. Sun holds degrees from the Central-South Institute of Mining and Metallurgy and the Harbin Institute of Technology.



S. MING SUNG

S. Ming Sung is the Clean Air Task Force's Chief Representative for Asia-Pacific, where he spearheads CATF's effort to accelerate the deployment of low-carbon energy technologies through partnerships between innovative companies in China and the West. Previously,

Dr. Sung worked at Shell and was vice president for technology at XinAo Group (ENN now). He also worked at BASF, Monsanto, and the U.S. Department of Energy's coal conversion programs. He has served on a variety of boards and committees, including the National Association of Chinese Americans, OCA, and the American Institute of Chemical Engineers. Dr. Sung earned his BS and MS in Chemical and Petroleum Refining Engineering from the Colorado School of Mines. His Ph.D. research was in asphalt rheology at the University of Florida.



WANG FENG

Wang Feng is a senior fellow at Brookings and director of the Brookings-Tsinghua Center for Public Policy. He is an author and editor of six books and of numerous articles in academic journals. Prior to his current position, Dr. Wang conducted research at the East

West Center in Honolulu, Hawaii, where he received the Distinguished Service Award, and taught at the University of Hawaii and the University of California, Irvine, where he received the Distinguished Assistant Professor for Research, and served as a member on the Executive Board of the Center for Asian Studies and the Center for the Study of Democracy, and the Chair of the Department of Sociology. Dr. Wang received his Ph.D and Master's degrees in Sociology from the University of Michigan and his B.A. from Hebei University.

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Wang Jisi is dean of the School of International Studies and director of the Center for International and Strategic Studies at Peking University. He has been a member of the Foreign Policy Advisory Committee of the Foreign Ministry of China since October 2008, and

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James Yu is Director of International and Federal Affairs for AREVA Inc. He advised AREVA Enrichment Services' successful bid for a \$2 billion loan guarantee, awarded by the U.S. Department of Energy in 2010. He directed all political objectives for

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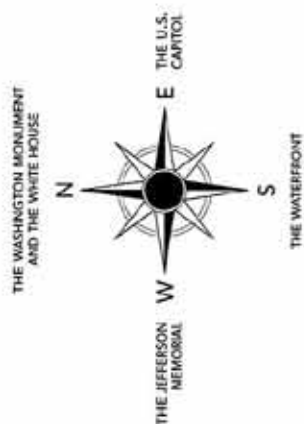
**ZHOU WENZHONG**

Zhou Wenzhong is currently Secretary General of the Boao Forum for Asia and Vice President of the China-U.S. People's Friendship Association. Previously, he has served as Ambassador to the United States, Assistant and Vice Minister in the Ministry

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