

CHINA ENERGY 2020

Columbia Club
September 11, 2014



NATIONAL COMMITTEE ON
UNITED STATES-CHINA RELATIONS

 COLUMBIA | SIPA
Center on Global Energy Policy



CHINA ENERGY
FUND COMMITTEE
中华能源基金委员会

CHINA ENERGY 2020

September 11, 2014

Agenda

6:00 p.m. **Registration & Reception**

6:30 **Welcoming remarks**

STEPHEN ORLINS, President, National Committee on U.S.-China Relations

ZHUANG JIANZHONG, Deputy Director, China Energy Fund Committee
International Center

JASON BORDOFF, Founding Director, Center on Global Energy Policy

Introduction of **DAVID SANDALOW** by **JASON BORDOFF**

SHALE GAS IN CHINA

DAVID SANDALOW, Inaugural Fellow, Center on Global Energy,
Columbia University

Q&A moderated by **JASON BORDOFF**

7:05 Introduction of **ZHANG GUOBAO** by **STEPHEN ORLINS**

CHINA ENERGY TO 2020

ZHANG GUOBAO, Chairman, Advisory Committee of National Energy
Committee; former Vice Chairman, National Development Reform
Commission; and former Director, National Energy Administration of China

Q&A moderated by **DAVID SANDALOW**

7:40 *Panel discussion:* **CHINA'S ENERGY FUTURE**

Moderator: **KENNETH LIEBERTHAL**, Senior Fellow, John L. Thornton China
Center, The Brookings Institution

Panelists:

CHEN WEIDONG, Chief Energy Researcher, Energy Economics Institute,
CNOOC

JOANNA I. LEWIS, Associate Professor of Science, Technology and International
Affairs, Edmund A. Walsh School of Foreign Service, Georgetown University

XU XIAOJIE, Director, World Energy, Institute of World Economics & Politics,
Chinese Academy of Social Sciences

Moderated audience Q&A

8:15 **Closing Remarks** by **STEPHEN ORLINS**

SPEAKERS

In order of appearance

STEPHEN ORLINS has been president of the National Committee on U.S.-China Relations since May 2005. Prior to that, Mr. Orlins was the managing director of Carlyle Asia and chairman of the board of Taiwan Broadband Communications, one of Taiwan's largest cable television and high speed internet providers. Prior to joining Carlyle, he was a senior advisor to AEA Investors Inc., a New York-based leveraged buyout firm, with responsibility for AEA's business activities throughout Asia. From 1983 to 1991, Mr. Orlins was with the investment banking firm of Lehman Brothers where he was a managing director from 1985 to 1991. From 1987 to 1990, he served as president of Lehman Brothers Asia. Prior to joining Lehman Brothers, Mr. Orlins practiced law with Coudert Brothers and Paul, Weiss, Rifkind, Wharton & Garrison in New York, Hong Kong and Beijing. From 1976 to 1979, Orlins served in the Office of the Legal Advisor of the United States Department of State, first in the Office of the Assistant Legal Advisor for Political-Military Affairs and then for East Asian and Pacific Affairs. While in that office, he was a member of the legal team that helped establish diplomatic relations with the People's Republic of China. He is a graduate of Harvard College and earned his law degree at Harvard Law School. He speaks Mandarin Chinese and is a member of the Council on Foreign Relations.

ZHUANG JIANZHONG is the deputy director of the China Energy Fund Committee International Center, deputy director of the International Energy Research Center, and professor of the School for International and Public Affairs of Shanghai Jiaotong University. His previous occupations include general secretary of the Shanghai Society for Pacific Region Economic Development and standing deputy director of the National Strategic Research Center at Shanghai Jiaotong University. His primary research areas include international politics, U.S.-China relations; Taiwan, Korea, and Northeast Asian Security; and non-proliferation.

JASON BORDOFF is the founding director of the Center on Global Energy Policy, and professor of professional practice in international and public affairs at Columbia University's School of International and Public Affairs. Bordoff joined the Columbia faculty after serving until January 2013 as special assistant to the U.S. president and senior director for energy and climate change on the staff of the National Security Council. Prior to that, he held senior policy positions on the White House's National Economic Council and Council on Environmental Quality. One of the nation's top energy policy experts, he joined the administration in April 2009. Bordoff's research and policy interests lie at the intersection of

economics, energy, the environment, and national security. Prior to joining the White House, Bordoff was the policy director of the Hamilton Project, an economic policy initiative housed at the Brookings Institution. He is also a member of the Council on Foreign Relations, a consultant to the National Intelligence Council, and serves on the board of the Association of Marshall Scholars. During the Clinton Administration, Bordoff served as an advisor to the deputy secretary of the Treasury Department. He was also a consultant with McKinsey & Company. Bordoff graduated from Harvard Law School and clerked on the U.S. Court of Appeals for the D.C. Circuit. He also holds an MLitt degree from Oxford University, where he studied as a Marshall Scholar, and an undergraduate degree from Brown University.

DAVID SANDALOW is the inaugural fellow at Columbia's new Center on Global Energy Policy. He is a senior adviser to Garten Rothkopf LLC and member of the Zayed Future Energy Prize Selection Committee. Prior to joining Columbia, Mr. Sandalow served in senior positions at the U.S. Department of Energy (DOE), including under secretary of energy (acting) and assistant secretary for policy & international affairs. As under secretary (acting), Mr. Sandalow helped oversee DOE's renewable energy, energy efficiency, fossil energy, nuclear energy and electricity delivery programs, with a budget of more than \$3.5 billion per year. As assistant secretary, he helped coordinate policy development and international activities at the Department. Prior to serving at DOE, Mr. Sandalow was a senior fellow at the Brookings Institution, as well as Energy & Climate Change Working Group chair at the Clinton Global Initiative. He has served as assistant secretary of state for oceans, environment & science and a senior director on the National Security Council staff. Mr. Sandalow is the author of *Freedom from Oil* (McGraw-Hill, 2008) and editor of *Plug-In Electric Vehicles: What Role for Washington?* (Brookings Press, 2009). He speaks and writes widely on energy and environmental policy and has served as a moderator at many conferences including the Clinton Global Initiative and World Future Energy Summit.

ZHANG GUOBAO is chairman of the Advisory Committee of the National Energy Committee and chairman of the China Industrial Overseas Development and Planning Association. He was formerly vice chairman of the National Development and Reform Commission and administrator of the National Energy Administration (minister level). Working for many years in the management of China's energy and manufacturing industries, Mr. Zhang has experienced the extensive development and reform of China's energy industry and organized the drafting of institutional reform programs in the power industry. In his capacity as administrator of the National Energy Administration, he led the drafting of

the energy development program, mid-and-long term nuclear power development program, and new energy development program. Mr. Zhang was directly responsible for the bilateral and multilateral energy negotiations with Russia, Central Asia, Burma and Venezuela, and oversaw a series of significant international energy cooperation projects, including the China-Russia Oil Pipeline, China-Kazakhstan Oil Pipeline, Central Asia Natural Gas Pipeline and China-Burma Oil Pipeline. Mr. Zhang also served as vice chairman of the World Energy Council (WEC).

KENNETH LIEBERTHAL is a senior fellow in foreign policy and global economy and development at Brookings. From 2009 to 2012, Lieberthal served as the director of the John L. Thornton China Center. Lieberthal was a professor at the University of Michigan from 1983 to 2009. He has authored 24 books and monographs and over 70 articles, mostly dealing with China. He also served as special assistant to the president for national security affairs and senior director for Asia on the National Security Council from August 1998 to October 2000. His government responsibilities encompassed U.S. policy toward Northeast, East and Southeast Asia. Most recently, he co-edited the book *China's Political Development: Chinese and American Perspectives* (with Cheng Li and Yu Keping), published by Brookings Institution Press in 2014.

CHEN WEIDONG is chief energy researcher of the Energy Economic Institute of CNOOC. From 2002 to 2010, he was executive vice president, CSO & secretary of the board of China Oilfield Services, Ltd. He has over 31 years of experience in the oil & gas industry with CNOOC and has received numerous awards. He serves as an honorary researcher of the Chinese Academy of Social Sciences; standing executive member of the Chinese Oil Enterprises Association; vice chairman of the Geophysical Exploration Committee of the Chinese Oil Institute; and executive member of the China Geophysics Institute. As a columnist for economic and energy magazines in China, he has published over one hundred articles in the past decade, and coordinated the publication in China of five American energy-related books during the past five years.

JOANNA I. LEWIS is an associate professor in the Science, Technology and International Affairs (STIA) program at Georgetown University's Edmund A. Walsh School of Foreign Service. Her research focuses on energy, the environment and innovation in China, including renewable energy industry development and climate change policy. She is currently leading a National Science Foundation-funded project on International Partnerships and Technological Leapfrogging in China's Clean Energy Sector. Her recent book, *Green Innovation in China: China's Wind Power Industry and the Global Transition to a Low-Carbon Economy*, was the winner of the 2014 Harold and Margaret Sprout Award by the International Studies Association for best book of the year in environmental studies. Dr. Lewis is a lead author of the Intergovernmental Panel on Climate Change's Fifth Assessment Report and a visiting faculty affiliate with Lawrence Berkeley National Laboratory's China Energy Group. She has worked with the Pew Center on Global Climate Change, the Asia Society, and the Energy Foundation China Sustainable Energy Program, among other governmental, non-governmental and international organizations, and has been a visiting scholar at Tsinghua University, the Wilson Center and the East West Center. She holds a Ph.D. in energy and resources from the University of California, Berkeley and a B.A. in environmental science & policy from Duke University.

XU XIAOJIE has been chief energy fellow at the Institute of World Economics and Politics of the Chinese Academy of Social Sciences in Beijing since 2009. He is also senior advisor to the China Energy Fund Committee (CEFC) and a member of the Global Council on the Future of Oil and Gas at the World Economic Forum (2014-2016). He previously worked at China National Petroleum Corporation (CNPC) and served as the first director of the Institute of Overseas Investment Climate Research. He has advised the National Energy Administration of China on energy policy and state-owned energy companies on business expansion globally. He authored *Petro-Dragon's Rise, What it Means for China and the World* (European Press, English, 2002) and *Energy Black Swan: Global Games for Hydrocarbon Resources and Chinese Options* (Chinese, 2011).



The organizers thank Chevron for its generous support of this event.



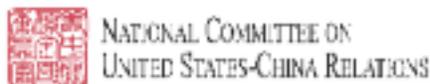
The China Energy Fund Committee (CEFC) is a non-governmental organization with special consultation status with the Economic and Social Council (ECOSOC) of the United Nations. Fully sponsored by CEFC China Energy Company Limited, it is dedicated to energy strategy research, energy public diplomacy, global energy cooperation and culture exchanges.

Along with its branches in Europe, America, the Middle East and Central Asia, CEFC partners with other global think tanks and institutions, including ECOSOC, the International Energy Agency (IEA), the Rand Corporation, the National Committee on American Foreign Policy (NCAFP) and the National Committee on U.S.-China Relations (NCUSCR). It advises on national energy security through over 300 research reports and has sponsored more than 200 events at the United Nations headquarters and in major cities around the world.

CEFC and Shanghai Jiaotong University have jointly established the International Energy Research Center (IERC) and an energy database to conduct research in energy policy and technologies. It joined hands with China University of Petroleum to host the First Sino-Russia Energy Cooperation Forum.



The mission of Columbia University's Center on Global Energy Policy is to improve the quality of energy policy and dialogue through objective, balanced, and rigorous analysis. We approach energy as an economic, security, and environmental concern. We draw on the resources of a world-class institution, renowned faculty with deep expertise, practitioners with wide experience, and a location in the world's finance, media, and diplomatic capital.



The National Committee on U.S.-China Relations is a nonprofit, nonpartisan educational organization that encourages understanding of China and the United States among citizens of both countries. The National Committee's continuity of experience and depth of associations with senior officials and distinguished citizens of China and the United States make it a unique national resource. The National Committee focuses its exchange, educational, and policy programs on international relations, economic development and management, governance and legal affairs, environmental and other global concerns, mass communication, and education administration -- addressing these issues with respect to the People's Republic, Hong Kong SAR and Taiwan.

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