

Energy Security: A Global Challenge

“ . . . what has been the paradigm of energy security for the past three decades is too limited and must be expanded to include many new factors. Moreover, it must be recognized that energy security does not stand by itself but is lodged in the larger relations among nations and how they interact with one another.” – Daniel Yergin

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Organized by
The Institute for National Strategic Studies

Energy and environmental security are at the forefront of U.S. national agenda. From new policies on climate change to evolving energy markets to the United States' approach to regional conflict, energy and the environment are at the heart of U.S. economic and national security policies. This symposium features government officials, military personnel and national security experts from the United States and other countries to discuss America's new approaches to some of the world's most pressing problems.

The list of major issues to be addressed will include:

- Global energy and environmental security tradeoffs;
- The U.S. Department of Defense's emerging energy agenda;
- Regional energy and environmental flashpoints;
- U.S. and international nuclear energy;
- Renewable energy, and
- Trends in emerging petroleum and natural gas markets.

The symposium will examine the forces driving a significant part of the new administration's security policy.

0900-0930 Opening/Welcoming Remarks

0945-1130 Panel 1: Global Energy security: economy, availability, climate

Energy security involves more than the supply of energy, including cost, predictability of cost, reliability of supplies, and policies at home and abroad. For the most part, these above-ground factors have more impact on energy security than the resource itself. This panel examines international energy security writ large. It focuses on price, availability, and climate change as the key drivers for energy security and their impact on national security.

Moderator: Dr. Theresa Sabonis-Helf, Professor, National War College, National Defense University

Panelists:

- Dr. Jan Kalicki, Counselor for International Strategy, Chevron Corporation
- Dr. Paul Werbos, Program Director, National Science Foundation
- Mr. Robert Bryce, Managing Editor, *Energy Tribune*
- Dr. Richard Andres, Senior Fellow, Institute for National Strategic Studies

1145-1300 Keynote Luncheon Address – Ms. Sherri Goodman, *Senior Vice President and General Counsel, CNA Corporation*

1315-1500 Panel 2: The Defense Department, Leader or Laggard on the U.S. Energy Agenda?

The U.S. military is the largest consumer of fossil fuels in the world, spending billions every year. Increasingly the Department of Defense has taken major steps to change its tactics, techniques, and technology to account for energy costs and risks incurred with the energy-related supply chain. For both operational considerations and Congressional mandates, efforts are underway to greatly reduce energy consumption both in the support infrastructure and in the operational environments. This panel examines the steps that the Department is taking and the vision behind its actions.

Moderator: Dr. Richard Andres, Senior Fellow, Institute for National Strategic Studies

Panelists:

- Mr. Michael Aimone, former Assistant Deputy Chief of Staff, Logistics, Installations and Mission Support, U.S. Department of the Air Force, currently Vice President, Strategy Development, National Security Global Business, Battelle
- Mr. Geoffrey Prosch, former Principal Deputy and Acting Assistant Secretary of the Army (Installations and Environment), currently Director of Federal Government Relations, Johnson Controls, Inc.
- Mr. David M. King, Director, Energy Policy, Headquarters, U.S. Air Force
- Mr. Paul Bollinger, Vice President, Strategic Energy Programs, Science Applications International Corporation

1515-1700 Panel 3: Emerging regional energy security issues

Energy has become a major source of international tension. This panel examines regional and global security issues and options. According to Professor James Russell of the Naval Postgraduate School, “It is in the energy sector that strategic planners now find it easiest to imagine major states reconsidering their reluctance to use force against one another.” While the oil fields of the Middle East have been the focus of much attention in recent decades, tensions over energy supplies, transit routes, pollution, and ownership of offshore fields pose challenges in many regions.

Moderator: Dr. Eugene Rumer, Director of Research, Institute for National Strategic Studies

Panelists:

- Dr. Jean-François Seznec, Visiting Associate Professor, Center for Contemporary Arab Studies, Georgetown University (Middle East)
- Mr. David Pumphrey, Deputy Director and Senior Fellow, Energy and National Security Program, Center for Strategic and International Studies (China)
- Dr. Maureen Crandall, Professor of Economics, Industrial College of the Armed Forces, National Defense University (Central Asia)
- General Lamine Cissé, Former Chief of Defense, Senegal (Africa)

Day 2

0830-0855 Library Special Collections Tour

0900-1045 Panel 4 (Track 1): The emerging petroleum and natural gas economy

Petroleum products, primarily gasoline, diesel fuel, jet fuels, and to a limited extent compressed natural gas power the world's transportation systems. This panel focuses on trends in the petroleum and natural gas markets. It examines the current international energy economy is sustainable and how or whether changes in supply, policy, or use will affect this sector. All military forces are critically dependent upon petroleum-based fuels for deployment, operational mobility, and sustainment.

Moderator: Colonel Mace Carpenter, USAF, Chairman of the Joint Chiefs of Staff Chair, Industrial College of the Armed Forces, National Defense University

Panelists:

- Mr. Frank Verrastro, Director and Senior Fellow, Energy and National Security Program, CSIS
- Mr. Adam Sieminski, Chief Energy Economist, Deutsche Bank
- Ambassador Richard Jones, Deputy Executive Director, International Energy Agency

0900-1045 Panel 4 (Track 2): Energy Grid Security

The national energy system is only as secure and reliable as the distribution system. America's electrical energy is distributed through a complex grid of power generation plants, transformers, and trunk and local lines. Overseeing this system is a complex mosaic of federal, state, local, and international government agencies and commercial companies. Even without consideration of national security issues, this is a daunting challenge as has been demonstrated time and again through storm-related and occasionally human generated emergencies.

Moderator: Mr. Riley Repko, Senior Advisor, Cyber Operations and Transformation, HQ USAF

Panelists:

- Dr. Richard Andres, Senior Fellow, Institute for National Strategic Studies
- Mr. Tim Roxey, Critical Infrastructure Protection Manager, North American Electric Reliability Corporation
- Mr. Scott Pugh, Interagency Programs Officer, Department of Homeland Security
- Mr. Jeffrey Dagle, Chief Electrical Engineer, Pacific Northwest National Laboratory

1100-1215 Panel 5: Arctic and Energy Security (Track 1)

The trend of diminishing ice coverage in the Arctic offers both opportunity and challenge to the countries bordering the arctic seas. The potential for locating and exploiting significant energy petroleum resources is high according to a study by the U.S. Geologic Survey. The opening of the Arctic to explore or and recover these resources will have cascading implications on geopolitical and economic relations, territorial claims related to exploration and transit, environmental conditions, and military operations to support and enforce the laws and policies of bordering states.

Moderator: Mr. Keith Eikenes, Counselor, Defense and Security Policy, Royal Norwegian Embassy

Panelists:

- Mr. D.A. Goward, Director, Assessment, Integration, and Risk Management, U.S. Coast Guard
- Mr. Alex Greenstein, Bureau of Economic, Energy, and Business Affairs, U.S. Department of State
- Dr. David Houseknecht, Research Geologist, U.S. Geological Survey

1100-1215 Panel 6: Nuclear power (Track 2)

Nuclear power is one of the most important and contentious issues in energy security. No new nuclear power facilities have been initiated in the United States since Three Mile Island. This panel examines arguments for and against greater use of nuclear power.

Moderator: Professor Janie Benton, Department of Energy Faculty Chair, Industrial College of the Armed Forces, National Defense University

Panelists:

- Mr. Andrew Orrell, Director of Nuclear Energy Programs, Sandia National Laboratory
- Mr. Christopher Guith, Vice President for Policy, Institute for 21st Century Energy, U.S. Chamber of Commerce
- Mr. William Tucker, Author, *Terrestrial Energy*

1230-1345 Keynote Luncheon Address – Admiral John B. Nathman, USN (Ret)

1400-1545 Panel 7: Renewable/Alternative Energy

The U.S. government has made strong statements concerning renewable and alternative energy sources and the Department of Defense has made some notable efforts with the use of solar power. As the world attempts to wean itself off of fossil fuel based energy, renewable sources of energy have attracted increasingly large investments. This panel examines trends in renewable energy and its potential for supplementing and eventually replacing fossil fuels.

Moderator: Ms. Judi Greenwald, Vice President, Innovative Solutions, Pew Center on Global Climate Change

Panelists:

- Ms. Steven Cuevas, Director, Public Affairs for Strategic Renewable Projects, Areva, Inc.
- Dr. Jonathan Trent, Bioengineering Research Scientist, NASA Ames Research Center
- Dr. Kenneth P. Green, Resident Scholar, American Enterprise Institute
- Mr. Jim Presswood, Federal Energy Policy Director, Natural Resources Defense Council