Mission

We coordinate with all DOE Program Offices and support offices on issues affecting nuclear security and energy cooperation with China.

Nuclear Security

Further strengthen nonproliferation and emergency response to improve nuclear security in China and U.S.

Energy Security

Promote U.S.-China projects and programs on reliable, sustainable and environmentally sound energy supplies and energy demand to create green jobs, spur competitiveness and combat climate change.

Scientific & Technological Innovation

Support U.S.-China research and collaboration that improves quality of life and economic growth.

Functions

- *Support the Embassy in achieving national security goals in nuclear and energy security*
- *Work diligently with Chinese counterparts to facilitate programs and identify areas for greater collaboration*
- *Foster cooperation between all DOE offices and their Chinese counterparts*

  - * *Conduct requested analysis*
  - * *Coordinate programs*
  - * *Develop implementation plans*
  - * *Facilitate meetings & events*

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Department of Energy

China Office

Mission
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Functions
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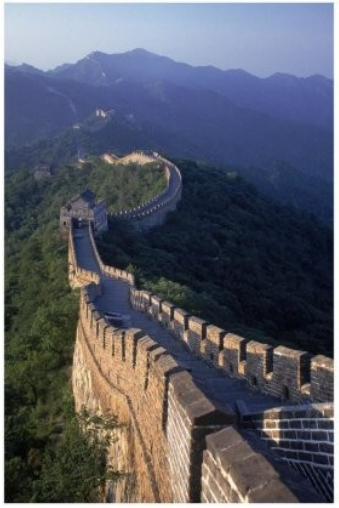
Areas of Engagement



Nuclear Security, Nuclear Energy & Nonproliferation

DOE China contributes to DOE's greater goal of ensuring America's nuclear security by promoting the safe, secure and environmentally friendly use of nuclear energy worldwide; by enhancing security at facilities that store nuclear and radiological materials, and by deterring and preventing illicit trafficking of nuclear and radiological materials.

On nuclear security and nonproliferation, we work with our Chinese counterparts to install radiation detection equipment at key border crossings, to enhance physical protection and material control and accounting systems at nuclear facilities, to strengthen security at facilities that house radiological materials, to share information and lessons learned on such issues as nuclear security culture and inspections at nuclear facilities, to promote secure transportation, and to strengthen emergency response capabilities in the event of a nuclear incident.

Dayawan Nuclear Power Station in Guandong Province

On nuclear energy, we work with Chinese counterparts to facilitate the construction of AP 1000 reactors in China, to promote the safety of nuclear power plants, to carry out research and share information on next generation nuclear technologies, and to cooperate in multilateral fora to promote the safe, secure use of nuclear energy.

Agreements and Initiatives:

- Agreement on Cooperation in Peaceful Uses of Nuclear Technology
- Megaports Initiative
- International Framework for Nuclear Energy Cooperation
- Emergency Management
- International Radiological Threat Reduction
- Six Party Talk Support
- Multilateral Export Control Program
- Bilateral Civilian Nuclear Energy Action Plan

Renewable Energy & Energy Efficiency

Renewable Energy

Renewable energy plays an increasingly important role in our nation's and China's energy mix. We work to facilitate joint research and projects to increase wind, solar, geothermal, biomass, and water power.

Wind farm in Yunnan

- Renewable Energy Partnership
- Renewable Energy & Biofuels Fora

Energy Efficiency

As economic and industry growth continues in China we help promote efficient building technology and increased energy efficiency in industry.

- Energy Efficiency Forum
- Energy Efficiency and Renewable Energy Protocol

Fossil Energy

Fossil fuels - coal, oil, and natural gas - currently provide more than 85 % of all the energy consumed in the United States and 93% of that consumed in China. Thus, we aim to foster innovative ways to make the future production and use of fossil fuels cleaner and more efficient.

- **Oil and Gas Industry Forum (OGIF).** Held annually for over a decade, OGIF is the only event that brings together industry and government from both countries to explore common issues and improve industry investments and efficiencies.
- **Fossil Energy Protocol (FEP).** FEP promotes cooperation in power systems, clean fuels, oil and gas, energy and environmental control technologies, and climate science. Held annually for a decade, the FEP forum reviews successes in collaboration and plans for cooperation going forward.

Cross-Cutting Initiatives

We support bilateral endeavors that cut across energy areas, strengthening the breadth and depth of cooperation.

- **U.S.-China Clean Energy Research Center (CERC).** CERC is designed to provide $150 million over 5 years to create and demonstrate technologies in the areas of clean coal with sequestration, energy efficient buildings, and clean transportation.
- **U.S.-China Energy Policy Dialog (EPD).** EPD is the principal annual gathering of senior government energy leaders to discuss timely issues of mutual interest.
- **Ten Year Framework (TYF).** TYF involves commitments by both governments to achieving cleaner electric power, more efficient transportation, cleaner air and water, and higher energy efficiency.

Science & Technology

DOE works with its Chinese counterparts to advance research and development in high energy physics, nuclear fusion, neutrino properties and other areas.

- The **High Energy Physics Implementing Accord** advances theoretical and experimental research. Specific areas of collaboration include the *Beijing Electron Positron Collider (BEPC)* and the *Daya Bay Neutrino Experiment.*
- The **Protocol on Nuclear Physics and Controlled Magnetic Fusion** focuses on plasma physics, fusion technology, advanced design studies, and materials research.
- **ITER** is an effort by China, E.U., India, Japan, Korea, Russia, and the U.S. to build the world's largest fusion facility, demonstrating the feasibility of fusion power.