

Fueling China's Development Through Renewable Energy

U.S./China Protocol for Cooperation
in the Fields of Energy Efficiency and Renewable Energy



Courtesy of Debra Lew



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Advancing world energy security by
helping China develop more diversified
energy resources

Mitigating environmental damage through
deployment of renewable energy and
energy efficiency measures

Building partnerships between U.S. and
Chinese industry

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The U.S./China Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy was signed by the U.S. Department of Energy (DOE) and the Chinese Ministry of Science and Technology (MOST) in 1995. Five of its seven annexes pertain to renewable energy: rural energy, wind energy, geothermal energy, policy and planning, and business development.

Rural Energy Development

Household- and village-scale renewable energy technologies provide energy or electricity to rural areas.

- * Gansu Solar Home System Project
- * Biomass Resource Assessment, Technology Assessment, and Market Development Strategies
- * Inner Mongolia Wind/PV Hybrid Household Project
- * Rural Energy Survey and Analysis
- * DOE/Asia Pacific Economic Cooperation (APEC) Tibet Solar Electrification Project
- * Great Wall PV Demonstration/ Education Site
- * Training

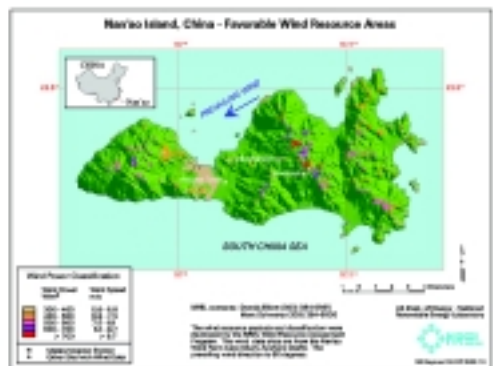
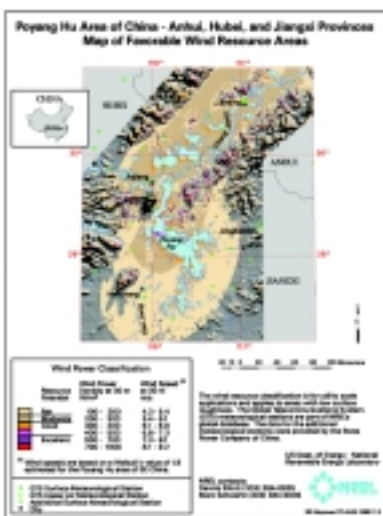


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Wind Energy Development

Accelerates sustainable, large-scale development of wind power in grid-connected, utility-scale, and off-grid village power applications.

- * Wind Resource Assessment and Mapping
- * Xiao Qing Dao Island Wind/Diesel Hybrid Project
- * Hybrids Industry Working Group
- * Training



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Geothermal Energy Production and Use

Market development, identification, and implementation of geothermal heat pump investment projects.

- * Identification and development of eight projects, including completion of \$5.3 million of projects
- * Training and System Monitoring

Policy and Planning

Renewable energy policy and support of the Brightness Rural Electrification Program

- * Brightness Program Training Certification
- * Policy Assistance for Renewables Portfolio Standard and Financial Incentives

Renewable Energy Business Development

Develops markets and facilitates business partnerships between U.S. and Chinese companies.

- * Provincial Renewable Business Profiles
- * Chinese PV Industry and Technology Assessments
- * Renewable Energy Business Development Workshops and Study Tours in China in 1998, 1999, 2001
- * Wind Energy Business Development and Policy Analysis Workshop
- * U.S./China Renewable Energy Forum, Exhibition and Study Tour in 2000
- * Outreach and Web site Development



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 National Renewable Energy Laboratory • International Programs



Energy Efficiency and Renewable Energy Technology Development in China

The National Renewable Energy Laboratory (NREL) has been assisting China in renewable energy development since 1995 through activities in resource assessment, training, pilot projects, and market development. NREL helps U.S. renewable energy companies to develop markets for their technologies and services in China.



U.S.-China Renewable Energy
中美可再生能源讨论

These activities have been defined within seven specific Annexes of the Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Development and Utilization. [Learn more](#)

NREL Leads about other international programs and projects such as the World Bank/GEF Renewable Energy Development Project, UN/GEF Capacity Building for Rapid Commercialization of Renewable Energy project, the Brightness Program and more. [Learn more](#)

Highlighted China Roundtable Study Tour
Sept. 14-21, 2001

Workshop Report
"Commercialization of Solar PV Systems in China"

- Broad Energy Policy Projects: Scenario & Analysis, Training, Business
- Wind Energy Pilot Projects: Training
- Renewable Energy Business Development: Market Assessments, Workshops, Forums
- Policy & Planning
- Geothermal Energy

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