

# U.S. Trade and Development Agency



## Electricity Transmission and Distribution

The U.S. Trade and Development Agency (USTDA) helps companies create U.S. jobs through the export of U.S. goods and services for priority development projects in emerging economies. USTDA links U.S. businesses to export opportunities by funding project planning activities, pilot projects, and reverse trade missions while creating sustainable infrastructure and economic growth in partner countries.

### USTDA Programs

USTDA promotes economic growth in emerging economies by facilitating the participation of U.S. businesses in the planning and execution of priority development projects in host countries. The Agency's objectives are to help build the infrastructure for trade, match U.S. technological expertise with overseas development needs, and help create lasting business partnerships between the United States and emerging market economies.

USTDA advances these objectives through its two key programs, the *International Business Partnership Program* and the *Project Development Program*.

USTDA's reverse trade missions are the mainstay of its *International Business Partnership Program (IBPP)*. Created in 2010 in response to President Obama's National Export Initiative, the *IBPP* is USTDA's signature program for linking the U.S. private sector to foreign buyers. These visits are carefully planned to enable foreign decision-makers to meet with U.S. businesses and to observe the manufacture, and demonstration of U.S. goods and services that can help them achieve their development goals. These reverse trade missions also include meetings with financial institutions to observe financing options and technical and regulatory bodies that can assist with strengthening the project sponsor's technical capacity.

Through feasibility studies, technical assistance and pilot projects, USTDA's *Project Development Program* helps overseas project sponsors identify technological solutions and various sources of financing for priority infrastructure projects.

Through these programs, USTDA funds an array of activities that promote the procurement of U.S. electricity transmission and distribution technologies and the development of power projects in partner countries.

### Recent Activities

Given the drastic growth in electricity demand throughout Vietnam, 15 percent annually, the Government is implementing a \$5 billion National Power Development Master Plan. In support of this initiative, USTDA funded a reverse trade mission to highlight U.S. electric power transmission technologies and best practices to improve energy transmission capacity in Vietnam. As an immediate result of this mission, the Vietnam National Power Transmission Corporation (NPT) and a U.S. company signed a Memorandum of Understanding for a pilot project to install a relay system in NPT's network with follow on potential for cooperation on transmission services. In addition to this agreement, NPT purchased more than \$11.5 million in capacitors from another U.S. supplier.



USTDA supports the NEI's mission as a member of the President's Export Promotion Cabinet.



## eThekwini Smart Metering Feasibility Study in South Africa

In order to address critical concerns over South Africa's declining electricity reserve margin, USTDA awarded a grant to eThekwini Municipality to support the rollout of advanced electricity metering, or smart meters, by eThekwini Electricity. USTDA's assistance promotes the application of innovative U.S. technologies that will enable South African electricity distributors to integrate energy-intensive users into a smart metering system by 2012.



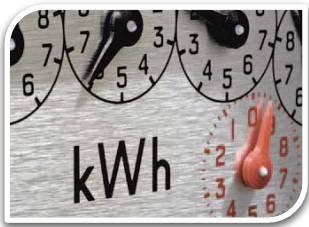
## Demand Response System Pilot Project in China

In support of the U.S.-China Energy Cooperation Program's efforts to open China's market to U.S.-manufactured technologies as the country continues to develop its energy infrastructure, USTDA is funding a feasibility study and pilot project on the implementation of a smart grid demand response management system for the China State Grid Electric Power Research Institute (SGEPRI). U.S. companies will provide the equipment for the pilot, and the results will assist SGEPRI in designing a national smart grid implementation strategy.



## Brazil Smart Grid Technologies Reverse Trade Mission

A delegation of senior Brazilian officials visited the United States on this USTDA sponsored reverse trade mission in order to learn about U.S. electric power transmission technology solutions and the best practices that support them. The delegation visited Washington, DC and San Francisco, CA to meet with government agencies, power utility companies, and industry associations to encourage U.S. company involvement in the early stages of Brazil's Smart Grid implementation plan.



## BESCOM Smart Grid Feasibility Study in India

Supporting the Bangalore Electricity Supply Company Limited's (BESCOM) effort to integrate smart grid technologies into its existing power system is the goal of a USTDA grant awarded to BESCOM. Through this program, USTDA is helping to develop the requirements and specifications for a smart grid implementation plan that will enable the integration of smart meters and automated meter reading into BESCOM's distribution system. Ultimately, this program will advance BESCOM's efforts to meet the challenge of growing demand for energy from its diverse customer base.



## Smart Grid Applications in Power Distribution in Turkey

USTDA is providing funding for a Feasibility Study that will introduce upgraded control systems and smart grid technology to the Bařkent Elektrik Company in Turkey. The study will include a gap analysis, strategy proposal, estimate of investment requirements, and system integration recommendations for this newly privatized company.

**Contact us for more information!**  
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## USTDA: Electricity T&D by the Numbers

**\$5.7 million**

Amount obligated by USTDA in fiscal year 2010 for electricity transmission and distribution activities.

**28%**

Percent increase in USTDA's electricity obligations from fiscal year 2009 to fiscal year 2010.

**12**

Number of electricity transmission and distribution activities obligated by USTDA in fiscal year 2010.



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