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# U.S. TRADE AND DEVELOPMENT AGENCY

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## **FACT SHEET: USTDA'S PIPELINE OF INFRASTRUCTURE PROJECTS IN PAKISTAN**

USTDA has signed agreements for over \$3.5 million to support infrastructure projects in Pakistan. Projects include feasibility studies for electricity generation via wind, biomass and solar photovoltaic power as well as smart grid transmission and distribution. The studies will be conducted by U.S. companies that are selected by Pakistani grantees.

USTDA is implementing an expanded infrastructure and trade initiative in Pakistan to support the Obama Administration's priorities for results-oriented economic cooperation. This program meets Pakistani project sponsors requests for energy and transportation infrastructure improvement, while introducing U.S. companies offering solutions.

With a growing pipeline of clean energy activities in Pakistan, the U.S. Trade and Development Agency will advertise these opportunities on Federal Business Opportunities ([fedbizops.gov](http://fedbizops.gov)) as they become available for bidding.

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### **Beaconhouse Schools Solar Photovoltaic Power Supply**

Grantee: Beaconhouse Group ("Educational Services Ltd")

Amount: \$299,896

This feasibility study will determine the technical, economic, and financial feasibility of installing solar photovoltaic (PV) power systems at hundreds of private schools in Pakistan that are part of the Beaconhouse school system. Solar power has the potential to provide uninterrupted power to schools at a time of frequent load shedding, to lower the overall cost of power and to demonstrate science and technology at work in school settings. This study will include the installation of a pilot solar PV system at one school that will serve as an example for deployment throughout other Beaconhouse owned schools as well as other school systems, residential, commercial, and small industrial sectors. Educational Services (Private) Limited ("ESL"), the owner of the Beaconhouse schools brand and the largest private educational services company in Pakistan, is the grantee.

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### **Gharo Corridor 50MW Wind Project**

Grantee: Engro PowerGen Private Limited

Amount: \$592,465

Engro is committed to developing 500 MW of wind power in Pakistan and this feasibility and investment analysis will help determine commercial wind power's viability as an option to reduce the country's reliance on fossil fuel imports. USTDA support will evaluate the technical, economic, and financial viability of a 50MW wind power project at a coastal site in the Gharo Corridor, west of Karachi. The study effort includes preparation of tender documents for international competitive bidding for the wind power engineering, procurement and construction (EPC) contract.

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**Smart Grid and Distribution Modernization Feasibility Study**

Grantee: Karachi Electric Supply Company Limited (KESC)

Amount: \$510,475

Karachi Electric Supply Company Limited (KESC) suffers from high electricity losses (as much as 40 percent or roughly 1,000 MW), and has requested USTDA funding support to determine the viability of an integrated smart grid system in Karachi. The study recommendations will help to reduce electricity losses and improve the efficiency of KESC's utility operations. The technical effort will also define the scope for planning investments in a large smart grid pilot project. This USTDA-funded study has the potential to improve the energy infrastructure and offer solutions to alleviate the energy crisis that constrains economic performance in Pakistan's largest commercial and industrial center.

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**Bulleh Shah Paper Mill Biomass-Fueled Boiler**

Grantee: Packages Ltd.

Amount: \$289,125

This feasibility study, for Packages Limited ("Packages"), a publicly-traded Pakistani packaging company, will determine the best option to convert paper and agricultural wastes to commercial energy at Packages' Bulleh Shah Paper Mill in Kasur, Punjab province, Pakistan. The study will assess and recommend one of two principal options to utilize the waste from the paper mill and local biomass resources: (a) installing a new 50-ton per hour biomass boiler that would generate 10 MW of electrical power in the existing system; or (b) developing a significantly larger biomass project of up to 60 MW based on the available fuel supply, interconnection, site and financing constraints.

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**Trade Information Gateway Real-Time Exchange**

Grantee: Mega & Forbes Group

Amount: \$933,273

This feasibility study and pilot project will assess the viability and application of a Trade Information Gateway Real-Time Exchange (TIGRE) system solution for cargo movement operations in and around the main ports in Karachi, Pakistan. Megatransport Private Limited has identified NTELX Inc. as the sole-source contractor for the study effort, which will identify the technical requirements for a software system and new practices that will track the movement of cargo between ships, port operators, truckers, rail systems and customers. The TIGRE system will help support Megatransport's efforts to promote efficient and secure trade by allowing cargo and transportation logistical movements to be tracked via a web-based platform.

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**Expanded MRO Facility for Pakistan International Airlines**

Grantee: Pakistan International Airlines (PIA)

Amount: \$864,002

This feasibility and investment analysis will recommend the best strategy to expand a Maintenance, Repair, and Overhaul (MRO) Facility to include service for engines, landing gear, airframes and aircraft components, for Pakistan International Airlines (PIA). The study would develop a market assessment and business plan for PIA's MRO facility, and recommend the necessary technical requirements and cost estimates. Developing this facility through USTDA funds will help position PIA in this growing regional market and help to strengthen the U.S. commercial aviation presence in Pakistan.