



Fact Sheet: African Clean Energy Solutions Initiative

As African governments seek to create investment climates that are more conducive to private sector investment, many companies operating in the region are looking to wean themselves from expensive and polluting diesel power generation in favor of cleaner, more cost effective solutions to meet their power needs.

Given that U.S. companies are world leaders in providing both on-grid and off-grid clean energy solutions, the U.S. Trade and Development Agency has formed the African Clean Energy Solutions (ACES) Initiative to provide a framework for a series of activities that will advance clean energy investments in sub-Saharan Africa.

Activities under the ACES Initiative will include reverse trade missions, technical assistance, investment analysis, demonstration projects, business workshops, training, project definition,

and other critical clean energy activities. Focus areas of the ACES Initiative will include: (1) improving legal and regulatory frameworks that facilitate private sector investment in clean energy solutions; (2) supporting power generation using clean energy sources; (3) modernizing transmission and distribution grids; and (4) promoting energy efficiency and demand-side management. USTDA's resources will also help to leverage donor assistance and private capital to promote clean energy solutions across the region.

The ACES Initiative also aims support the National Export Initiative's goal to double U.S. exports over five year by introducing project sponsors from sub-Saharan Africa to state-of-the-art U.S. clean energy technologies and helping to create partnerships between the U.S. and sub-Saharan Africa in the clean energy sector.

With a growing pipeline of clean energy activities in each of its three sub-regions, the U.S. Trade and Development Agency has already funded several clean energy projects in sub-Saharan Africa under the ACES framework:

Angola: Luanda Electricity Distribution Grid Modernization Feasibility Study

Grantee: Angola Ministry of Energy and Water

Amount: \$855,000

Grant Awarded: August 2, 2010

This \$855,000 feasibility study grant to the Angola Ministry of Energy and Water will fund an evaluation of the technical, financial, environmental, and other critical aspects of integrating information technology, automation, and management systems into Luanda's electricity distribution grid. The modernization of Luanda's electricity distribution grid will significantly improve the reliability of electricity in Luanda while reducing costs and harmful emissions.

Angola: Southern Angola High-Voltage Transmission Line Feasibility Study

Grantee: Angola Ministry of Energy and Water

Amount: \$837,000

Grant Awarded: August 2, 2010

This \$837,000 feasibility study grant to the Angola Ministry of Energy and Water will fund an evaluation of the technical, financial, environmental, and other critical aspects of rehabilitating and expanding Angola's southern electricity transmission network. The construction of new high-voltage transmission lines in Southern Angola will increase access to electricity and help to integrate Angola's domestic electricity transmission networks.

Kenya: Geothermal Development Company Capacity Building Project

Grantee: Geothermal Development Company

Amount: \$641,000

Grant Awarded: August 2, 2010

This \$641,000 technical assistance grant to the Geothermal Development Company (GDC) will help expand private sector participation in Kenya's geothermal energy sector by providing capacity building training to GDC personnel, assisting in the development of feed-in tariffs that support geothermal power generation, and establishing evaluation criteria for potential private sector investment partners for geothermal power generation.

Nigeria: Power Loss Reduction Technologies

Grantee: National Power Training Institute of Nigeria

Amount: \$616,000

Grant Awarded: August 2, 2010

This \$616,000 technical assistance grant will assist the National Power Training Institute of Nigeria and three of Nigeria's electricity distribution companies (Abuja, Eko, and Ikeja) with reducing the country's high rates of technical and commercial power losses. The technical assistance will assess the companies' electrical distribution infrastructure, make recommendations on smart-grid and outage management technologies, and provide training to the companies' senior engineers and technicians.