USTDA’s mission

USTDA helps companies create U.S. jobs through the export of U.S. goods and services for priority development projects in emerging economies.
USTDA Support for Power Africa

74

Activities
USTDA has announced critical project preparation assistance for 74 Power Africa activities across the continent

2,760

Megawatts
Our work has supported the development of an estimated 2,760 MW of new power generation

5.1M

Homes
The equivalent of 5.1 million African homes are expected to be powered as a result of USTDA’s work
Demand by Subsector in Power Africa Proposal Windows

- Total proposals received:
  - FY2017: 296
  - FY2018: 237

- Minigrid proposals increased in the FY2018 window
Market Growth

- USTDA’s energy portfolio increased by 400 percent since Power Africa launched
- Kenya is a focus country
- Energy sector represents 100% of USTDA’s current investments in Kenya
- 10 ongoing projects – Half include solar
USTDA is currently supporting 20 solar projects in Sub-Saharan Africa.
Recent Energy Storage Activities in SSA

Kenya Solar and Energy Storage Technologies Reverse Trade Mission
USTDA supported a reverse trade mission for representatives of Kenya’s energy sector. The visit promoted U.S. industry participation in the implementation of solar and energy storage projects across Kenya. The RTM introduced delegates to U.S. solar and energy storage technologies and services, as well as policies, regulations, and financing options that can support the implementation of Kenya’s energy storage goals.

Madagascar Solar and Battery Storage Minigrid Feasibility Study
USTDA is supporting a feasibility study for the Malagasy energy company, Henri Fraise Fils & Cie (HFFC). The study will evaluate the technical and economic viability of deploying solar photovoltaic-powered minigrids with integrated battery storage at up to 100 sites across Madagascar. In partnership with U.S. battery storage manufacturer, Fluidic, Inc. (Scottsdale, AZ), HFFC aims to install and operate a combined 9.9 MW of solar power generation and 87 MW hours of battery storage capacity.

Primus Power Energy Storage System Pilot Project
USTDA is supporting a pilot project that demonstrates the performance of an energy storage system based on the innovative technologies of the U.S. firm, Primus Power (Hayward, CA). The pilot will be located at ESKOM’s large-scale energy storage test and demonstration facility. Primus Power’s technology will demonstrate energy storage capabilities and strengthen South Africa’s electric grid by offsetting the need to use diesel and other fossil fuels for peaking power. The pilot will also work to integrate renewable electricity generation sources into South Africa’s electric grid.

Standard Microgrid Initiatives Limited Deployment of 150 Microgrid Units Feasibility Study
USTDA is supporting a feasibility study for Standard Microgrid Initiatives Limited, an African energy developer on efforts to deploy 150 microgrid and energy storage units in rural areas of Zambia. The study will demonstrate the competitiveness of U.S. solar power and storage technologies in Zambia. The project is expected to provide electricity access for over 20,000 households.
In FY2017, USTDA supported six U.S. companies piloting unique power technologies in Sub-Saharan Africa.

- **Powerhive, Inc.** Berkeley, California (solar minigrid project in Nigeria)
- **Renewvia Energy Corporation** (solar and energy storage microgrid project in Nigeria)
- **Standard Microgrid, Inc.** Sacramento, California (solar and energy storage microgrid project in Zambia)
- **Primus Power Corporation** Hayward, California (energy storage project in South Africa)
- **Langson Energy, Inc.** Carson City, Nevada (geothermal project in Kenya)
- **Fluidic, Inc.** Scottsdale, Arizona (solar and energy storage project in Madagascar)
Financing

- Increase in financing options on the continent
  - OPIC, Ex-IM, DBSA, IDC, AfDB, etc.
- USTDA has developed a database of 60 financiers

USTDA contractor Oorja Protonics raised more than $1 million through the 2017 Industry Growth Forum