



USTDA

U.S. TRADE AND DEVELOPMENT AGENCY

Energy Storage

Linking U.S. Businesses to
Global Infrastructure Opportunities

www.ustda.gov

The U.S. Trade and Development Agency 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 preparation and partnership building activities that develop sustainable infrastructure and foster economic growth in partner countries.

USTDA Programs

USTDA promotes economic growth in emerging economies by facilitating the participation of U.S. businesses in the preparation and execution of priority development projects in host countries. The Agency helps build the infrastructure for trade, match U.S. technological expertise with overseas development needs, and facilitate lasting business partnerships between the United States and emerging markets.

In the energy sector, USTDA advances its objectives through these tools:

Feasibility Studies and Technical Assistance

- USTDA offers support in the form of feasibility studies, technical assistance, and other project preparation activities that provide the comprehensive analysis required for infrastructure investments to advance from the concept stage to the financing and implementation stages.

Pilot Projects:

- USTDA supports pilot projects in order to demonstrate the effectiveness of U.S. solutions. Pilots also provide the analysis, evaluation and empirical data needed to secure implementation funding.

Reverse Trade Missions:

- USTDA sponsors reverse trade missions (RTM) to bring key decision-makers and project developers from overseas to the United States to learn more about U.S. technology and service providers, financiers, policy and regulatory frameworks, and other resources that can support the deployment of new infrastructure in partner countries.

USTDA in the Energy Storage Sector

Energy sector development in developing and middle-income countries is a strategic priority for USTDA. The agency works closely with the U.S. private sector to identify and support activities that generate measurable commercial and developmental results across a wide range of activities, including diversification of energy sources and development of clean, renewable and alternative fuels.

USTDA also focuses on deploying commercially viable U.S. technologies that promote energy efficiency; power generation, transmission, and distribution; transport to market of new oil and gas reserves; and refining capacity and quality.



Representatives from South Africa's energy storage sector participate in a USTDA funded study tour with site visits in California.



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Global Energy Storage Reverse Trade Mission

USTDA funded a Global Energy Storage Reverse Trade Mission (RTM) which gave 16 delegates the opportunity to witness advancements in U.S. energy storage technology. Delegates from international electricity utility companies and government regulators met with U.S. industry and regulatory leaders to learn about U.S. best practices. The delegates also attended the Energy Storage Association's Annual Conference. The RTM was especially timely as the global energy storage market is experiencing rapid growth particularly in battery and hydro pumped storage.

India Integrated Wind, Solar and Energy Storage Project

USTDA funded technical assistance for IL&FS Energy Development Company Limited (IEDCL) in India to assess the technical, financial and commercial viability of renewable energy storage technologies for two planned renewable energy projects in India. IEDCL plans to construct 1,150 Megawatts (MW) of solar photovoltaic (PV) and wind integrated projects in the Indian states of Andhra Pradesh and Gujarat. Through the use of fully integrated energy storage infrastructure, these projects will be developed as power generation parks to supply dispatchable utility scale renewable energy to the power grid for the first time in India.

South Africa Energy Storage Technology and Market Assessment

USTDA is partnering with two South African development finance institutions to enhance their ability to finance clean energy projects. USTDA will provide the Industrial Development Corporation (IDC) with an assessment of existing and developing energy storage technologies. The project will support the Government of South Africa's adoption of policies and regulations to facilitate the use of energy storage technologies. The technologies are critical to the expansion of renewable energy. These services aim to develop a roadmap for the adoption of energy storage technologies in South Africa through 2030.

Large Scale Energy Storage Systems in Brazil, Colombia, and Mexico

As Brazil, Colombia, and Mexico aim to increase renewable energy generation, they must address the challenge of intermittent generation. Therefore, this USTDA-funded feasibility study will assess large-scale battery storage opportunities, perform a feasibility analysis, and create a business plans for the provision of large-scale battery storage in each of the countries.

Jordan Energy Storage Technologies

USTDA recently sponsored a reverse trade mission for 12 delegates from Jordan in order to demonstrate U.S. energy storage technologies and services. These technologies can support Jordan's immediate need to integrate renewable energy resources into its electricity grid. Energy storage technologies can also increase the reliability of electricity transmission and distribution throughout the country.



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