

Global Partnership for Climate-Smart Infrastructure



U.S. Solutions for Building Resilient and Net-Zero Infrastructure

Fact Sheet

April 17, 2023

“Nations that work together to invest in the cleaner economy will reap rewards for their citizens. The United States is committed – we are committed to making those investments to grow our economy here at home while connecting with markets around the world. For example, we are launching a new Global Partnership for Climate-Smart Infrastructure. This will create good-paying jobs here in America by supporting development of new, clean infrastructure in our partner countries. These are the sort of partnerships that are going to be good for all of us.”

*President Joseph R. Biden Jr.
April 23, 2021*

In April 2021, President Biden announced the launch of the U.S. Trade and Development Agency’s (USTDA) [Global Partnership for Climate-Smart Infrastructure \(Global Climate Partnership\)](#) to connect U.S. industry to priority clean energy and transportation infrastructure projects in emerging economies. Since its launch, USTDA has funded more than 60 activities to help our overseas partners achieve their energy and transportation sector climate mitigation and adaptation goals. These activities are designed to support more than \$16 billion in U.S. exports and help unlock nearly \$70 billion in climate finance. Through this programming, USTDA has met and exceeded its commitment as part of the April 2021 [U.S. International Climate Finance Plan](#) to dedicate \$60 million through 2024 to advance climate-smart infrastructure solutions in emerging economies. The Global Climate Partnership also advances the Partnership for Global Infrastructure and Investment, the values-driven, high-impact and transparent infrastructure partnership announced by the G-7 to meet the infrastructure needs of low- and middle-income countries.

In the past year, USTDA has built on its [previous work](#) under the Global Climate Partnership by advancing the following activities:

Worldwide

- USTDA is advancing best practices for methane abatement in the oil, gas and waste sectors by funding a series of three reverse trade missions, to take place

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beginning in May 2023, that will familiarize public and private sector leaders from emerging economies with the latest U.S. methane abatement technologies and services.

Indo-Pacific

Fiji:

- USTDA is partnering with Fiji's Ministry of Finance, Strategic Planning, National Development and Statistics (MOF) to advance MOF's goal of achieving one-hundred percent electrification in Fiji's rural island communities. This USTDA-funded grant will support the development of up to 75 priority minigrid sites across the country.

India:

- USTDA funded a grant for the Airports Authority of India to pilot a cloud-based emergency management and operations system that will enhance the ability of the airports they manage to adapt to the effects of climate change.
- USTDA's Global Procurement Initiative (GPI) is assisting six Indian states – Punjab, Maharashtra, Tamil Nadu, Haryana, Kerala and Gujarat – with integrating best value determinations and international best practices in public procurements in the clean energy sector. GPI most recently convened public sector representatives from these states in Delhi for two multi-day workshops and will host two reverse trade missions and a virtual training series for energy experts in the summer of 2023.
- USTDA is funding a feasibility study to enable Prabha Energy Private Ltd. to develop a coal mine methane (CMM) recovery facility in the Jharia coalfield in eastern India. By capturing the CMM, the facility would prevent the direct release of methane, a potent greenhouse gas, from mining of metallurgical coal. The captured gas would be used to offset the use of coal in industrial production.

Indonesia:

- A USTDA-funded feasibility study for PT Mass Rapid Transit Jakarta will advance the decarbonization of Jakarta's public transit system through renewable energy, supporting MRT Jakarta's aspiration of using 100% renewable energy to power its operations by 2040.
- USTDA is providing technical assistance to PLN Indonesia Power to help develop the country's first small modular reactor nuclear power plant to advance Indonesia's clean energy transition.

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Malaysia:

- USTDA-funded technical assistance to Malaysian electric utility company Sarawak Energy Berhad will facilitate its digital transformation to improve the resilience and affordability of its electrical system while integrating more renewable energy sources.

Pacific Islands:

- A USTDA-funded reverse trade mission will bring port sector officials from Pacific Island countries, including Fiji, Papua New Guinea, Samoa and Solomon Islands, to the United States to learn about U.S. innovations and best practices for port operations, including green port technologies that increase resilience to climate change and reduce environmental impacts.

Philippines:

- A USTDA-funded feasibility study, undertaken by the U.S. organization RMI, will assist the Philippines' Aboitiz Renewables, Inc. in developing up to three gigawatts of offshore wind projects in the Philippines, capable of providing power to more than two million households.
- Through a feasibility study grant, USTDA is enabling Energy Development Corporation, a Philippines-based private energy company, to develop a 50 MW geothermal plant in Amacan, on the island of Mindanao.
- USTDA is funding a feasibility study to allow Eramen Minerals Inc. to assess the viability of developing an ore-to-nickel and cobalt processing facility, supporting the production of critical minerals that are key elements in the supply chain for batteries and energy storage systems.

Thailand:

- To increase energy efficiency and reduce emissions, USTDA is funding technical assistance to support the Thailand Ministry of Transport's efforts to shift the country's freight transportation from road to rail, a shift that will increase energy efficiency and reduce emissions.
- USTDA is funding a feasibility study to enable Thailand's VAO Energy Co., Ltd. to develop a large plastic recycling facility to strengthen Thailand's waste management efforts and reduce greenhouse gas emissions.
- A USTDA-funded feasibility study will assist the Electricity Generating Authority of Thailand in retrofitting Vajiralongkorn Dam to store generated power that can be released during periods of peak power demand. The project will advance Thailand's clean energy transition by building grid capacity to manage significant amounts of projected variable renewable energy generation.

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Tonga:

- USTDA is funding a feasibility study for the state-owned utility Tonga Power Limited to support decarbonization of the power sector by improving efficiency and deploying distributed renewable energy generation.

Vietnam:

- To help connect renewable energy generation sources to Vietnam's electrical grid, USTDA is funding a feasibility study for Mekong Clean Energy Interconnection Company Ltd. to develop a new high-voltage transmission line in southern Vietnam's Bac Lieu province.

Indo-Pacific Regional:

USTDA has funded several regional activities that will help countries throughout the Indo-Pacific region meet their climate goals:

- In September 2022, USTDA hosted a reverse trade mission to familiarize delegates from Southeast Asia with U.S. technologies, services and best practices to improve the safety, efficiency and sustainability of transportation infrastructure, with a focus on decarbonization of the transportation sector.
- In January 2023, USTDA co-hosted the 5th Indo-Pacific Business Forum, which featured clean energy and decarbonization as a key theme.
- USTDA's Global Procurement Initiative hosted 14 trainings for procurement officials in the Maldives, Nepal and Sri Lanka to learn more about best practices in renewable energy procurement.

Latin America and the Caribbean

Brazil:

- USTDA is funding technical assistance for Brazilian electric distribution utility CEMIG Distribuição S.A. to further the utility's modernization efforts by providing a strategic plan for investments that will grow renewable power generation across the State of Minas Gerais.

Costa Rica:

- A USTDA-funded technical assistance grant will help the Costa Rican Electricity Institute (ICE) strengthen the stability and reliability of the country's power sector, minimizing energy losses throughout the grid.

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Dominican Republic:

- Through a technical assistance grant, USTDA is supporting the Dominican Republic's electricity regulator to develop regulations that enable the deployment of battery energy storage systems, which will be critical for the country to meet its sustainable development goals and to achieve energy independence.

Ecuador:

- USTDA-funded technical assistance will help the Electricity Corporation of Ecuador develop a master plan to advance the digital transformation and modernization of Ecuador's national electricity transmission system, reducing power losses and improving the grid's overall efficiency.
- USTDA will fund a technical assistance grant to provide the Provincial Government of Manabí with an assessment of intelligent transportation system technologies to help modernize and integrate the provincial road network, increasing efficiency for the movement of vehicles, passengers and cargo.

El Salvador:

- Through a technical assistance grant, USTDA will enable El Salvador's national water utility, the National Administration of Aqueducts and Sewers, to implement energy efficiency measures and develop onsite renewable power generation, contributing to the climate resilience of this critical water sector infrastructure.

Mexico:

- USTDA is funding technical assistance to the State of Yucatán's Institute of Mobility and Territorial Urban Development (IMDUT) to modernize Mérida's public transportation system. By deploying intelligent transportation system technologies and electric buses, IMDUT will reduce congestion and emissions to foster an environmentally friendly public transportation system.
- USTDA sponsored a reverse trade mission in October 2022 to familiarize Mexican delegates with state-of-the-art U.S. technologies and services to support priority water infrastructure projects in Mexico, including energy efficiency technologies.

Latin America and the Caribbean Regional:

USTDA has funded several regional activities that will help countries across Latin America and the Caribbean meet their climate goals:

- USTDA held a reverse trade mission in March 2023 to familiarize delegates from Colombia, Costa Rica and Mexico with best practices, regulatory advances and

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technologies to support emissions reductions and climate resiliency for freight and passenger rail infrastructure projects.

- A USTDA-funded virtual workshop series for stakeholders focused on the digital infrastructure sector in the Caribbean will support climate change mitigation and adaptation by addressing smart grid and other climate-related technologies that reduce greenhouse gas emissions and enhance resilience.

Sub-Saharan Africa

Cote d'Ivoire:

- USTDA is funding a technical assistance grant to help Ivoirian energy company Ecostar develop a cotton-stalk biomass power plant that will supply power to Cote d'Ivoire's national grid by transforming agricultural waste from the country's flourishing cotton sector.

Democratic Republic of the Congo:

- A USTDA-funded feasibility study for the provincial Government of Équateur will provide access to reliable renewable energy for more than one million people living in Mbandaka.

Nigeria:

- USTDA held virtual training sessions under the Global Procurement Initiative that introduced decision-makers at the Transmission Company of Nigeria to best practices in procurement of energy transmission infrastructure. The training helped these officials procure higher-quality technology by setting higher standards in line with internationally accepted norms and creating more qualitative, accurate technical specifications.
- A USTDA-funded feasibility study for EM-ONE Energy Solutions is supporting the deployment of up to 150 solar hybrid mini-grid systems to provide affordable and reliable energy access to primary healthcare sites and their neighboring communities with Nigeria's Bauchi, Ebonyi, Kebbi and Sokoto States and the Federal Capital Territory.
- To increase reliable energy access, a USTDA-funded feasibility study for Sosai Renewable Energies Company Limited is supporting the development of approximately 100 solar minigrids and associated low voltage distribution network in the Nigerian states of Kaduna, Plateau and Kogi states. The project is anticipated to generate new renewable energy and provide energy access to thousands of women, farmers and others living in rural communities, creating greater social and economic inclusion and development.

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- USTDA is funding a feasibility study to support Daybreak Power Solutions Limited developing grid-connected distributed energy resources to optimize energy support to 20 commercial and industrial entities in Nigeria.

Sierra Leone:

- To generate new renewable energy, a USTDA-funded feasibility study is supporting Sewa Energy Resources Ltd.'s implementation of a 27 MW run-of-river hydroelectric plant at Betmai Falls on the Pampana River in Sierra Leone.

South Africa:

- Through the Just Energy Transition Partnership, USTDA is hosting a series of reverse trade missions and workshops to support South Africa's decarbonization efforts. USTDA held the first workshop, on green hydrogen, on October 31 and November 1, 2022 in Cape Town.

Zambia:

- A USTDA-funded feasibility study will enable GreenCo Power Services Ltd. to develop a utility-scale battery energy storage technology project in Zambia's Sesheke District and other potential sites. This project will reduce carbon emissions while providing more sustainability, resilience and reliability to Zambia's power grid. It will also facilitate renewable energy trading across Southern Africa.

Sub-Saharan Africa Regional:

USTDA has funded several regional activities that will help countries across sub-Saharan Africa meet their climate goals:

- Vice President Harris announced in March 2023 that USTDA will advance the development of climate resilience and adaptation projects in Africa by hosting a U.S.-Africa Climate Innovation Week in the United States for leaders from across the continent. This partnership-building engagement will include parallel reverse trade missions to multiple U.S. cities, to showcase innovative American technologies, services and best practices that can benefit Africa's infrastructure for water management and early warning and emergency management systems.

Middle East, North Africa, Europe & Eurasia

Morocco:

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- A USTDA-funded feasibility study will enable the Régie Autonome de Distribution d'Eau et d'Electricité de Marrakech (RADEEMA), the state-owned water and electricity utility company in Marrakech, to transform the power distribution infrastructure in Marrakech into a smart grid.

Poland:

- In November 2022, Poland selected Pennsylvania-based Westinghouse Electric Company to supply the technology for the first three reactors of the country's first nuclear power plant – Poland's most ambitious and consequential power sector investment in a generation. The selection was informed by [a USTDA-funded front-end engineering and design study](#). The project will facilitate Poland's transition away from coal-fired power and strengthen its efforts to ensure long-term clean energy security.

Romania:

- USTDA is funding a front-end engineering and design study to enable RoPower Nuclear S.A., a subsidiary of Romania's national nuclear energy producer, to develop the country's first small modular reactor (SMR) nuclear power plant. The SMR plant, which would also be the first in Europe, will advance Romania's clean energy transition and its energy security goals.