

Global Partnership for Climate-Smart Infrastructure



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

“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***

The U.S. Trade and Development Agency’s (USTDA) **Global Partnership for Climate-Smart Infrastructure** connects U.S. industry to major energy and transportation infrastructure projects in emerging markets. This initiative supports the rebuilding of the U.S. middle class through the export of U.S.-manufactured goods and services while enhancing economic recovery through climate-smart infrastructure development for our partners and allies.

The Global Partnership for Climate-Smart Infrastructure leverages USTDA’s project preparation expertise – including feasibility studies, technical assistance and pilot projects – as well as partnership-building activities, such as reverse trade missions, to support the use of U.S. technologies and services in overseas climate-smart infrastructure projects.

By focusing on resilient and low-carbon infrastructure solutions in the energy and transportation sectors, the Global Climate Partnership will drive the adoption of transformational technologies that reduce greenhouse gas emissions and support resiliency to climate change. This initiative will create economic opportunities at home and abroad by leveraging public and private sector finance to catalyze the net-zero transition and help vulnerable countries and communities respond to climate impacts. To date, USTDA’s work in climate-related sectors, including energy and transportation, have supported approximately \$4.1 billion in U.S. exports for more than 550 U.S. companies across 46 states and the District of Columbia.

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USTDA's private sector launch partners for the Global Climate Partnership include the American Clean Power Association, Intelligent Transportation Society of America, National Electrical Manufacturers Association, Solar Energy Industries Association, and the U.S. Chamber of Commerce. U.S. government launch partners include the U.S. Departments of Commerce, Energy and Transportation, and the Export-Import Bank of the United States.

Under the Global Climate Partnership, USTDA has approved funding for the following activities, which will be executed in cooperation with its U.S. and overseas partners:

CLIMATE-SMART ENERGY INFRASTRUCTURE

- **Benin:** USTDA will pilot a U.S.-made digitalized system for solar minigrid management and support the development of solar minigrids in Benin utilizing U.S. technology.
- **Brazil:** USTDA will support Brazil's renewable energy development through a reverse trade mission that will present Brazilian project sponsors with U.S. services and solutions for energy storage and utility-scale solar and wind projects.
- **Bulgaria:** USTDA is funding a grant that will help the Toplofikacia Sofia district heating company upgrade its aging and inefficient plant infrastructure and reduce the company's greenhouse gas emissions.
- **Cameroon:** A USTDA-funded feasibility study and pilot project will support the rollout of up to 134 solar-plus-storage minigrids in four of Cameroon's 10 regions. USTDA's assistance will help local partner Renewable Energy Innovators Cameroon to plan the full-scale implementation of approximately 760 minigrids over 10 years.
- **India:** USTDA will fund a feasibility study for Shivman Wind Energy Private Limited to help develop a state-of-the-art 300 MW renewable power facility utilizing solar, wind, and battery storage in Gujarat, India. The project's hybrid design will mitigate renewable energy variability to help stabilize the electricity grid, increase overall efficiency and lower the cost of electricity.

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- Indonesia: USTDA will support Indonesia's waste-to-energy goals through a reverse trade mission that will introduce its energy sector leaders to U.S. technologies and best practices for biomass and municipal solid waste processing and power generation.
- Nigeria: A USTDA-funded grant to Nigeria's Sosai Renewable Energies Company will support the development of approximately 100 solar minigrids and associated low voltage distribution networks in central and northern Nigeria.
- Nigeria: USTDA will further develop Nigeria's minigrid sector with a grant to EM-ONE Energy Solutions that will facilitate the deployment of up to 150 solar hybrid minigrid systems for healthcare sites and their neighboring communities.
- Nigeria: USTDA will support a Smart Grid Solutions Workshop in Abuja in June 2021 that will connect decision-makers from Nigeria's power sector to U.S. technologies, services and equipment.
- Romania: USTDA will provide technical assistance to support the deployment of small modular reactor solutions in Romania. The assistance will help Romania's nuclear energy authority, Societatea Nationala Nuclearelectrica, pave the way for inclusion of a highly resilient, carbon-free, and flexible source of energy for Romania that can produce electricity on demand and can operate for years without refueling.
- Romania: USTDA will support Romania's goals to develop clean nuclear energy through a reverse trade mission to the United States that will introduce Romanian public and private sector officials to U.S. technology, regulations and best practices in the civil nuclear energy industry.
- Sub-Saharan Africa: In fall 2021 USTDA will host an energy storage standards workshop in Southern Africa under its U.S.-Africa Clean Energy Standards Workshop Series. USTDA's event will support the development of industry-led standards, testing protocols and regulatory procedures in partnership with government and industry leaders.
- Thailand: USTDA will train current and future leaders from the Electricity Generating Authority of Thailand through two reverse trade missions to the United States that will showcase state-of-the-art American technologies and management best practices that are tailored to Thailand's power sector.

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- Vietnam: USTDA will support the development of a new roadmap for Vietnam's National Power Transmission Corporation to modernize its information technology, communications, and power transmission systems and enable smart grid technology investments. USTDA's first roadmap with NPT led to significant exports of American grid modernization technologies.

CLIMATE-SMART TRANSPORTATION INFRASTRUCTURE

- Brazil: USTDA-funded technical assistance for Brazil's National Association of Passenger Rail Operators will help reduce costs and improve energy efficiency across their rail systems. This assistance will assess energy efficiency solutions such as energy storage and automation software that reduce emissions.
- Ecuador: USTDA-funded technical assistance will support the development of an airport sustainability and energy efficiency plan for the new Guayaquil International Airport. This assistance will recommend the adoption of energy-efficient technologies to reduce energy and water use, as well as renewable energy sources to reduce greenhouse gas emissions related to powering the airport's facilities.
- India: USTDA and the U.S. Department of Transportation will host a virtual seminar to examine how the U.S. and Indian aviation sectors are addressing the impact of aviation on the environment and climate. The seminar is the first of two virtual seminars leading up to the 7th Biennial U.S.–India Aviation Summit to be held in Washington D.C., Dec. 1-3, 2021.
- Philippines: USTDA-funded technical assistance for the Philippines' Department of Transportation will improve mobility and reduce traffic congestion in Metro Cebu. The technical assistance will assess new traffic control solutions that will play a critical role in enhancing climate-smart transportation infrastructure improvements, including a new bus rapid transit system that is currently under development.
- Turkey: USTDA will support Turkey's development of intelligent transportation systems and other climate-smart urban infrastructure through a reverse trade mission that will introduce delegates from several of Turkey's largest municipalities to the latest U.S. smart cities operations and transportation technologies.