



USTDA

U.S. TRADE AND DEVELOPMENT AGENCY

INDIA

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

For over three decades, USTDA has supported India's efforts to develop and modernize infrastructure across a number of sectors including energy, telecommunications and transportation, ultimately fostering economic growth in India. USTDA's project preparation assistance addresses sustainable development objectives and creates business opportunities for U.S. firms in India.



As one of USTDA's key partners, India represents the Agency's **largest portfolio** in South and Southeast Asia. Through a comprehensive partnership, USTDA is focused on strengthening aviation growth and efficiency, deploying "smart city" solutions, and supporting the development of energy, including renewable energy, natural gas, and cleaner coal.



Through USTDA's programming, U.S. companies have forged valuable relationships with the Indian public and private sector, cementing the long-term U.S. – India commercial partnership. At the same time, Indian partners have worked closely with their American counterparts to obtain U.S. solutions that can advance India's infrastructure goals. High-level collaboration continues through industry partnerships such as the U.S.-India Energy Cooperation Program and the U.S.-India Aviation Cooperation Program.



U.S.-India Aviation Cooperation Program

The U.S.-India Aviation Cooperation Program (ACP) is a bilateral public-private partnership among USTDA the Federal Aviation Administration (FAA), U.S. Transportation Security Administration (TSA), U.S. Departments of State and Commerce, as well as over 30 U.S. aviation companies, and the Government of India's civil aviation agencies. The ACP, which celebrated its ten-year anniversary in 2017, provides a forum for unified communication between the Government of India and U.S. public and private sector entities in India to identify and support the country's civil aviation sector priorities. Through the ACP, USTDA has supported six prior bilateral Aviation Summits and many activities in the areas of aviation safety, security, standards harmonization, air traffic management, airspace liberalization, general aviation, and environmental best practices.

Support for Smart Grid

Since 2004, USTDA has sponsored ten smart grid activities addressing topics such as distributed energy resources (DER), the viability of solar powered microgrids for two rural villages, and utilizing automated demand side management solutions to manage peak demand. On these activities, USTDA partnered with both public and private sector utilities, as well as U.S. companies, to pilot innovative solutions tailored to India's unique electricity needs.

In March 2017, USTDA was awarded the India Smart Grid Forum's *President Award for Promotion of Smart Grids in India*, in recognition of the Agency's efforts to advance India's grid modernization efforts.



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Smart Solutions for Smart Cities in India

USTDA's Smart Solutions for Smart Cities initiative utilizes U.S. industry expertise to deliver advisory and project preparation services to support comprehensive, sustainable urban infrastructure development throughout India. In 2015, USTDA signed Memoranda of Understanding to support three Indian state governments – Andhra Pradesh, Uttar Pradesh and Rajasthan – in their efforts to develop smart cities. Building upon USTDA's expertise in supporting energy, transportation, telecommunications and water infrastructure in India, this initiative deploys a variety of programmatic tools to connect innovative U.S. solutions and services to Indian cities.

Civil Aviation Safety

USTDA is partnering with India's Directorate General of Civil Aviation (DGCA) on a civil aviation safety technical assistance to assist the agency in addressing critical aviation safety regulatory framework and oversight requirements of the Federal Aviation Administration's International Aviation Safety (IASA) Program. The first phase of the technical assistance proposed recommendations for: 1) regulations, systems and practices, including the agency's workforce evaluation methodology and current staffing levels 2) flight operations inspector training program and tracking system; 3) air carrier certification and special authorization processes; 4) oversight of designated examiners; and 5) surveillance, safety resolution and enforcement actions. The second phase of the technical assistance is currently underway and will assist the DGCA in implementing additional improvements to strengthen its safety and oversight system, including addressing related issues in the business and general aviation (BA/GA) arena.

Business Models for Distributed Energy Resource Deployment

USTDA funded a feasibility study to develop a distributed energy resource (DER) plan for Tata Power Delhi Distribution Limited's (TPDDL) service territory in North Delhi. The study developed integrated planning tools and metrics to enable TPDDL to select and deploy DER technologies in its network. These technologies have the potential to improve the reliability of TPDDL's system, reduce its environmental footprint and decrease overall power costs to customers.

Leasing and Public-Private Partnership Framework

USTDA is partnering with Indian Railways to develop new and modify existing leasing and public private partnership (PPP) frameworks to attract private sector funding to further modernize India's rail infrastructure. The technical assistance is reviewing all current methods of financial structuring that are used for locomotive procurement and other rail infrastructure projects. It will recommend, based on international best practices, how to refine financing, procurement and operational methods in order to more successfully attract private funding and establish effective PPPs in the operation of Indian Railways network.



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