

USICEF

US-India Clean Energy Finance

Impact and Lessons Learned, 2017-2021 USICEF IMPACT: Maximizing philanthropic impact to scale distributed solar energy in India

USICEF is India's first project preparation facility (PPF) to help mobilize small- and mid-scale distributed solar energy projects. It is unique in its private PPF structure with reuse of grants, a new financially suitable and scalable approach to renewable energy and energy access philanthropy.

Since launching in 2016, USICEF supported 47 solar power projects, which went on to mobilize 30x in commercial debt over the initial grants provided.

CONTENTS

- p. 03 Scaling-up Distributed Solar Power: The Need for USICEF
- p. 06 What is USICEF and how it works
- p. 11 USICEF Impact Highlights: 2017-2021

SCALING DISTRIBUTED SOLAR POWER: THE NEED FOR USICEF

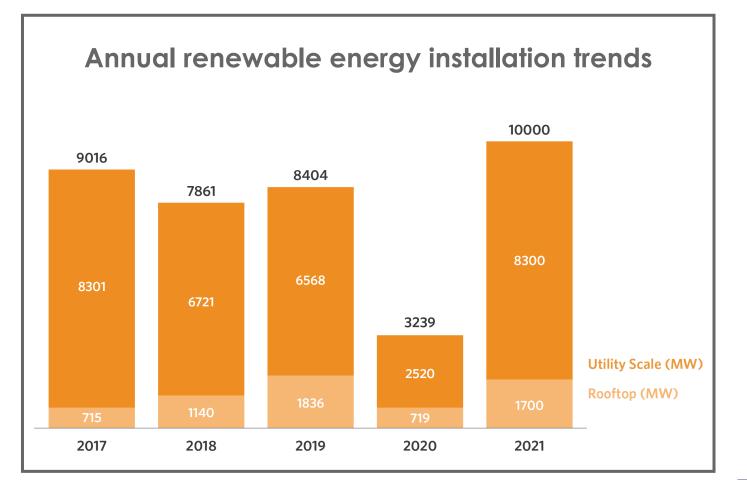
India's distributed renewable energy sector requires significant investment to meet national targets

India plans to install 175 GW of renewable energy projects by 2022.

Despite installed capacity rising six-fold to nearly 86 gigawatts in 2019,

only one-third of distributed generation targets are expected to be met by 2022.

Source: JMK Research



WHAT IS USICEF & HOW DOES IT WORK?



USICEF

US-India Clean Energy Finance

The U.S.-India Clean Energy Finance (USICEF) initiative is India's first project preparation and pipeline development facility to help promising distributed solar projects develop into viable investment opportunities and drive long-term debt financing.

USICEF is a critical step towards increasing access to reliable energy in underserved regions in India.

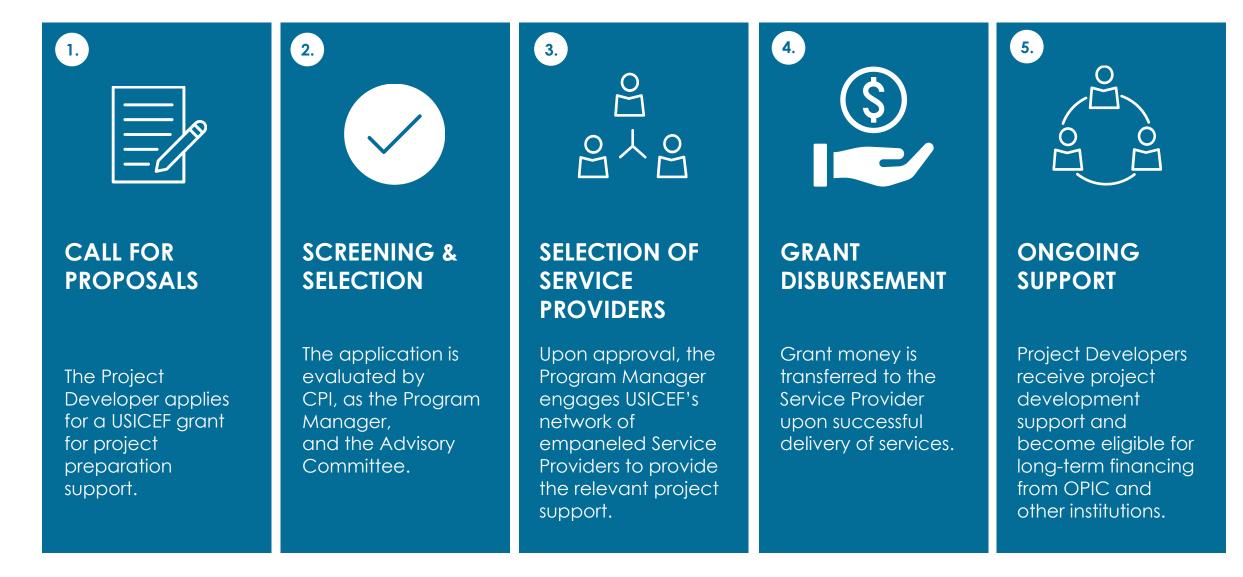
USICEF stems from a partnership between the Indian Ministry of New and Renewable Energy, the Overseas Private Investment Corporation (OPIC), and a consortium of foundations and investors.

PARTNERS



PROJECT MANAGER

How USICEF works: 5-step process





USICEF's three ingredients to success

PROJECT PREPARATION

Grant funded technical assistance helps prepare high quality investment grade project proposals to increase prospects of obtaining long-term debt financing

PROMISING & TRANSFORMATIVE PROJECTS

Promising, actionable, catalytic, and financially sustainable projects reduce risks and barriers to investment in sustainable development.

MOBILIZING FINANCE

Enables a critical mass of projects to unlock access to capital from public and private sources which in turn will benefit disadvantaged communities in India



USICEF IMPACT HIGHLIGHTS: 2017-2021

Since 2017, USICEF has awarded grants to over 47 early-stage businesses for various project preparatory activities including legal, technical, and financial advisory.

GRANT AWARDEES



These early-stage businesses belong to six main sub-segments that USICEF targets

SUPPORTED SUB-SEGMENTS



Rooftop solar (Commercial & industrial)



Mini-grids



Rooftop residential & institutional





Solar Home Systems

Financial intermediaries



solar projects

Solar Based **EV Charging** 64%

30 out of 47 supported developers have successfully mobilized debt using USICEF grants The Program has achieved debt mobilization of 30x that translates to



mobilized in debt from 15 different international and domestic lenders **Potential USICEF Impact**





670 MW Capacity installed



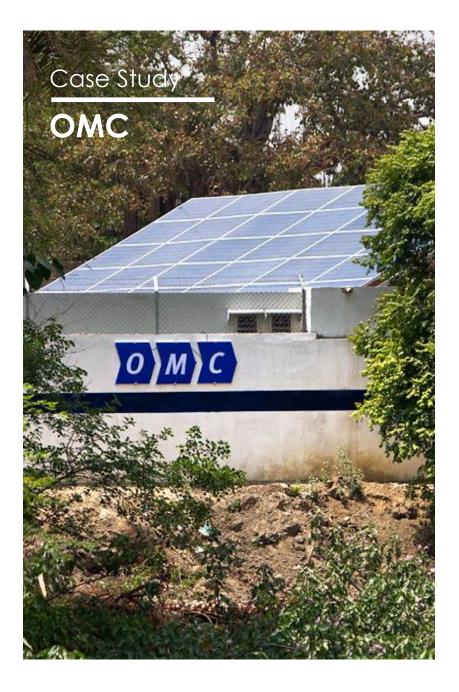






Projects spread across 20 INDIAN STATES





OMC is the pioneer of its unique ABC business model, wherein we set up solar power plants with mini grids and bring energy access to remote rural locations with limited or no grid connectivity. We serve "A"nchor customers (telecom towers), small and medium rural "B" usinesses and rural "C"ommunities.

Our experience with USICEF has been very positive and encouraging, as they provided us with financial support enabling us to engage consultants for conducting due diligence for a proposed financial closure.

PROGRESS TO DATE

- 260 plants with mini grids on the **ABC model**
- 90 sites serving telecom customers
- Around 16.4 MW total installed capacity (conventional + renewable)
- 20,000 "B" and "C" customers: 206 "A" customers



Rohit Chandra CEO, OMC Power

"Our mission is 'Power, Everywhere' to bring clean, green, affordable energy access to the bottom of the pyramid. USICEF has been a valuable partner of OMC in our efforts to fuel growth. They provided us with timely catalytic support that enabled the same."



Frontier Markets is a social tech enterprise that focuses on connecting products and services to rural customers in India. It is an end-to-end commerce platform that provides last-mile products and services, delivered at the doorsteps of consumers in villages through an assisted commerce model run by rural women entrepreneurs called Saral Jeevan Sahelis. Solutions include: in clean energy, agri, home and mobile appliances, as well digital and essential services

Our association with USICEF has proved to be a successful story and helped us to reach out to lenders and raise debt capital for our expansion activities.

PROGRESS TO DATE

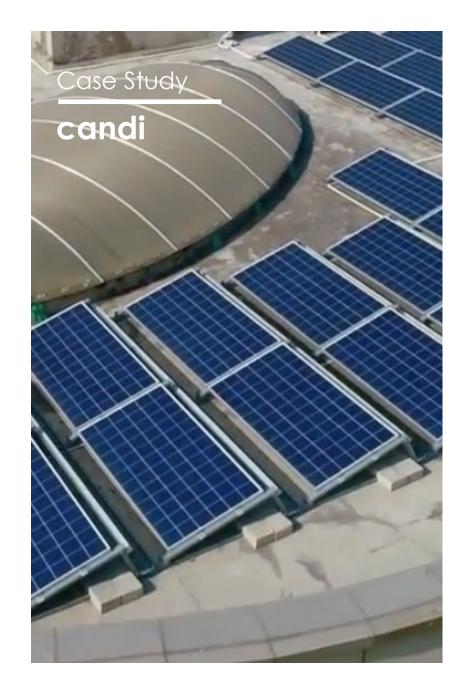
- Sold 1 Million solar products to 600,000 households
- Supported 12,000 women entrepreneurs
- Provided 1.2+ million solutions in clean energy, agri, home and mobile appliances
- CO₂ mitigated: 2.5 Million tons



Ajaita Shah

Founder & CEO

"USICEF has been an important partner for Frontier Markets in its journey and helped us to further our mission of supporting rural women while addressing the electricity access challenges"



candi was incorporated 2.5 years ago, with the intent of unlocking the potential of solar for SMEs which, until that time was a largely overlooked market, fiscally constrained and unable to readily embrace the transition to a sustainable and renewable future.

Equipped with a vision on how to streamline everything from contracts to credit screening for this sector, we initiated our journey in India with the invaluable support of USCIEF from very early on. Leveraging this assistance to realise our vision, candi now straddles two countries, has over 20 clients across almost 5MW and has successfully closed Series A as well as debt rounds with international investors.

PROGRESS TO DATE

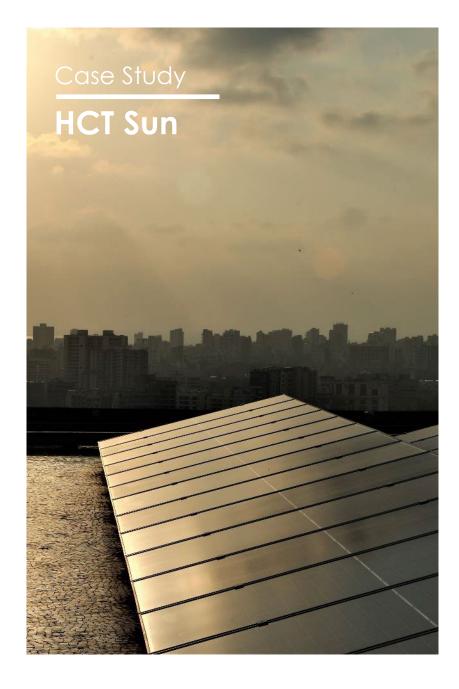
- Clean energy capacity installed: 16.3 MW
- Direct or Indirect employment created: 41
- Clients signed on to solar: 50



Philippe Flamand,

CEO, candi solar

"USCIEF was instrumental in allowing candi to focus on the building blocks of an investable/lendable company far earlier in its journey than would otherwise have been possible, ultimately accelerating candi's growth and impact."



HCT Sun had sought and received USICEF's grant a couple of years back for strengthening its internal business process, with regards to financial parameters for our business model, technical standards, health and safety standards, credit analysis tools for our customer segment, and legal contracts for our projects.

Thanks to USICEF's support, we could engage with the best consultants from across the country in these fields. Their support was especially helpful in our business operations since we were trying to introduce a concept to a largely uncharted area.

PROGRESS TO DATE

- Signed up over 6,600 kWp worth of projects
- ~ 4,500 kWp revenue generating projects
- 3,900 kWp in projects ready to come online by early 2021



Aryeh Glickman Founder & Director, HCT Sun

"USICEF has been a huge help in accessing top tier consultants who helped us raise our standards to those of international companies with a lot more experience and a much larger portfolio."

Media Coverage





Business Standard





















Projects under USICEF benefit from the support of a robust USICEF network



MANISH CHOURASIA

Managing Director, TCCL

"For India's clean energy transition, distributed solar energy is critical. USICEF has played a vital role in supporting rooftop solar developers through their most critical phase of project development and helping them scale up. The TCCL team is pleased to partner and finance many promising distributed rooftop solar projects through USICEF"



ELIZABETH L. LITTLEFIELD

Former President and CEO, OPIC

"The USICEF initiative is a critical step towards increasing access to energy in underserved regions in India. This public-private partnership presents the opportunity for OPIC to finance and deploy high-impact development projects that support underserved communities throughout India to help the country meet its energy goals."

This report was prepared by Climate Policy Initiative, Project Manager for the US-India Clean Energy Finance Initiative



With deep expertise in finance and policy, CPI is an analysis and advisory organization that works to improve the most important energy and land use practices around the world. Our mission is to help governments, businesses, and financial institutions drive economic growth while addressing climate change. CPI has six offices around the world in Brazil, Europe, Kenya, India, Indonesia, and the U.S.

Climate Policy Initiative, as the project manager:

- Manages USICEF
- Guides the selection process
- Develops partnerships with international and national lenders and facilitates debt for supported projects
- Convenes the committee meetings

USICEF

US-India Clean Energy Finance

US-INDIA CLEAN ENERGY FINANCE www.USICEF.org



@climatepolicy



in /company/climatepolicyinitiative