

BOOND Engineering & Development Pvt. Ltd.

Rustam Sengupta Speaker



Introduction BOOND Engineering & Development (P) Ltd.

BOOND is a private limited company founded in 2010 promoting alternative energy in Rajasthan, Uttar Pradesh, Delhi NCR and other northern states of India. We are experts in providing customized solar solutions across the spectrum of various applications.

BOOND is also leading many projects which are bringing a positive impact in the lives of many communities through focused energy interventions. Light for Educations and Digital Education Programme is an excellent example of such interventions via which we are supporting education in remote and off-grid areas.

By the end of FY 2015 we implemented projects with installed capacity of over 1.2 MW



Mission



Landmarks

Winner of Economi Times-

Power of Ideas

2010

Boond Incorporated & Seed funded by IIM-Ahemdabad-CIIE

2011

Wiinner of UN Foundation Award & Times Now Amazing Indian

Worked for Ladakh Relief providing Solar Solution to over 1000 familiies

2011

Recognized by former President Shri APJ Abdul Kalam

2012

Partnership with leading rural banks in UP & Rajasthan

5000+

products & system sold

2014

Raised Series A investment from VC's -

OPES, Rianta & Individual Investors

2013

Implemented

400 Solar Milk

Collection

Centres +

5 Offices setup

Team crosses

20 pepole

2014

Implemented first of it's kind

Prepaid

Microgrid Winner of

Echoing Green Climate Change Fellowship (US) 2014

Over 10,000 products & systems installed for over 800 KW

Capacity

Research Partnership with Columbia

University (USA) & Aalto Univ. (Finland)

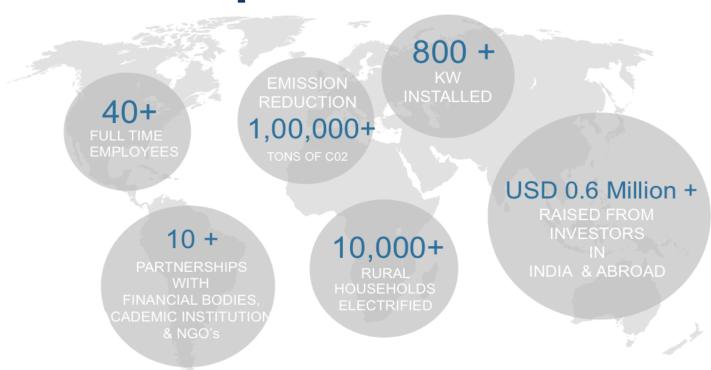
Partnership with Finnish Co. for Solar Concentrator -10 Offices -40+ Staff

2015





BOOND Impact





Products & Services



Solar Home Lighting Systems

Implemented 12,000+ decentralized Solar Home Lighting Systems in last 3 years in the range of 10Wp upto 300 Wp.



Solar Water Pumping

Provides VFD based solutions, with MPPT, along with online tracking of pump operation.



Solar UPS Solution

Online and offline UPS solutions for multiple clients up to 10kWp capacity.



Grid Interactive Solar Rooftop Solutions

We have the technical capacity to implement Grid –tied Solar Rooftop solution as per requirement.



Solar Street Lighting Solution

Provide plethora of customized solutions in street lighting with features including dawn to dusk, auto dimming, etc. Solutions available with Tubular flooded type batteries, VRLA and Lithium-ion batteries.



Solar MicroGrids

Provides turnkey solutions for off-grid solar micro grids, ranging from surveys, site analysis, system design, execution and operation and maintenance. Boond is the only company in India to implement prepaid solar micro grid, with a business model similar to pre-paid sim cards.



Solar Water Heaters

Customized solutions are available for domestic application starting from 100LPD.

5

Rural Electrification



Over 500+ systems installed with support from Grameen Bank of Aryavrat, Uttar Pradesh



Over 500+ systems installed with support from Baroda Rajasthan Kshetriya Grameen Bank, Rajasthan



Over 300 + systems installed with support from Rajasthan Marudhara Grameen Bank, Rajasthan



Over 2000 + systems installed in e remote areas of Rajasthan with NGO **Mr. Keepi Foundation of Netherlands**

Community Electrification



Micro-grids / Mini-grids installed with pre-paid and post paid systems in **Uttar Pradesh**



Solar Water pumps installed to help the poor farmers in Rajasthan



Over 6000 + lamps distributed across UP and Rajasthan with the support of various NGO's



Street lights installed at different locations of Rajasthan and Uttar Pradesh bringing light to the community

Residential Projects



Plant Capacity: 5 KW Location: Delhi



Plant Capacity: 7 KW Location: U.P



Plant Capacity: 1 KW Location: Delhi



Plant Capacity: 1.5 kW Location: Greater Noida



Special Electronics for Solar

Customized low cost, robust designed products manufactured by BOOND



Micro-grid Energy Meter (Pre-paid / Post Paid)



Charge Controller / Regulator 5 /10 amp



Street Light Electronics



LED Bulbs / Tube lights (DC & AC)
1.2 to 7W



Array Junction Box



Charging Station Multi-household energy supply electronics





Case Study – Milk Testing Center (In collaboration with PURICA, a milk cooperative based in UP)

BOOND re-engineered the milk collection chain by centralizing milk storage at rural solar-powered collection centers and providing chilling facilities.

Traditionally, dairy supply chains involved an intermediary, which added extra cost and often lead to quality control problems



IMPACT:



- Supply chain became more efficient
- No Middle-man, profit goes directly to the seller
- Reduced cost and Energy use





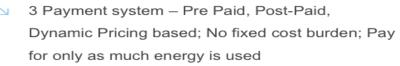
Case Study – Pre-Paid Micro Grid / Pico Grids

BOOND provides innovative technology solutions that caters to basic energy needs of non electrified households in a very cost effective manner.

Solution is analogous to modern day grid based energy; wherein a centralized solar unit produces the energy that is distributed to a number of households and end consumer for the wattage of power used.



IMPACT

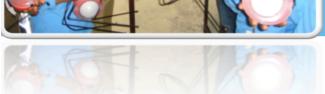




- Controlled /Charged by customized mobile application
- Direct online updation of CRM system via internet to know user requirement and usage
- Successfully implemented model in many Unnao district of Uttar Pradesh







Case Study – Light for Education (LFE)

Provide a reliable, clean and safe lighting source to students

Students are given portable LED study light powered by a solar charging station installed inside school premises

The students receive the light from the school and BOOND, and are expected to return the study lamp upon completion of schooling. The technology is then passed down to the next batch of students, creating a highly impactful model throughout the technology's lifespan.

IMPACT:

- Centralized charging station at a school
- □ Increased attendance and positive externalities for households in the area of indoor air pollution.



- ➤ The study light, kept in the student's house
- → A pocket size battery pack, charged at school to power the study light

Our Presence



We have branches / offices across India:

- 1. New Delhi
- 2. Unnao City(Uttar Pradesh)
- 3. Udaipur (Rajasthan)
- 4. Tidi (Udaipur, Rajasthan)
- Sawai Madhopur (Rajasthan)
- 6. Ramganj Mandi (Kota, Rajasthan)
- 7. Chakravanshi (Unnao, Uttar Pradesh)
- 3. Aira Bhadyar (Unnao, Uttar Pradesh)
- 9. Sumerpur (Unnao, Uttar Pradesh)
- 10. Bundi (Rajasthan)
- 11. Patan (Jhalawar, Rajasthan)



Meet our Team



Rustam Sengputa

Chief Executive Officer

- MBA from INSEAD Business School
- MS in Electrical Engineering from University of California
- Base of Pyramid business model expert
- Over 10 years of work experience in consulting and banking with nearly 3 years of direct development field experience



Tarun Kalra
Chief Operating Officer

- Around 20 years of work experience in India with number of corporations and start ups.
- Serial entrepreneur with two successful design startups to his credit.
- Former Head of IT department in Zee Media and Consultant at Xansa, a UK based company



Simran Grover
Chief Technology Officer

- Graduate of Mechanical Engineering from Indian Institute of Technology (IIT), Delhi.
- Over 5 years of working experience in Middle East with Energy companies.
- Awarded fellowship (Youth for India) from State Bank of India for development work















Partners



Centre for Innovation Incubation and Entrepreneurship SELCO
Incubation Centre





















CERTIFIED BY



Government of India
Ministry of New and Renewable Energy

OUR SUPPORTING BANKS







A Joint undertaking of Govt. of India, U.P. Govt. & Bank of India



Media

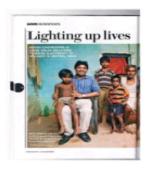












'Lighting up Lives'
By Outlook Business'
September 2014 edition
Edition: Good Businesses

















And many more....



Get in Touch

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