



# Energy Efficient Rural Buildings

## A Case Study on MFI's Solar Power Plant Initiative

**E-Hands Energy (India) Pvt. Ltd.**  
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# Green Rural Branches Social Impact



- Almost 200 rural branches of MFI's running on solar power.
- In 200 towns, MFI's Solar is the first of its kind, creating awareness about Solar to nearly 1 million people.
- Saving India from diesel: 0.65 Million Litres (=Rs4.5Crore)
- Enabling, clean rural India : Reducing CO2 by 2000MT
- Clean energy generation : 1500Mwh
- Installed Capacity of Solar and Wind : Over 200KWp
- Reducing the burden on Nation's grid power : EB Bill of Solar Branches are approx. 50% lower than others.
- Increased financial inclusion : MFI's Solar branches work 30% more efficient , leading to increased lending/financial assistance to the people of the town/villages.

# Details of the Clean Energy deployment

Year	RE Tech.	Location / Roll Out	No. of Sites	Total Installed Capacity
2012	Solar/Wind	Pollachi, Kopargaon + 2 CSR Sites ( all 4 Wind+Solar Hybrid Sites)	4	4 kWp
2013	Solar	Attur, Melur, Elampillai, Kulithalai, Perundurai, Manaparai, Rasipuram, Omalur, Thuraiyur, Karamadai	10	10 kWp
2014	Solar	Ruby	50	50 kWp
2015	Solar	Ruby 2	40	44 kWp
2016	Solar	Gold ( currently under rollout –June2016)	80	88 kWp

- The only NBFC-MFI to leverage wind energy for branch powering.
- Number of MFI Rural Branches with rooftop solar/solar-wind hybrid: **184**
- Total installed capacity of solar/solar-wind hybrid: **196 kWp**
- Aggregated Diesel Saving till Dec 31, 2015: **1,16,000 Litres**
- Diesel Saving Projected for next 5 years: **5,14,000 Litres**
- Clean Energy Generated till Dec 31, 2015: **280 MWh (2,80,000 Units)**
- Clean Energy Generation Projected for next 5 years: **1,230MWh (12,30,000 Units)**
- Carbon Reduction till Dec 31, 2015: **310 Tons**
- Carbon Reduction Projected for next 5 years: **1,370 Tons**
- Current, annual average power down time/branch: **less than 5%**