



POTENTIALS OF SOLAR ENERGY FOR RURAL LIVELIHOOS

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Current status of energy use

The Energy requirements for villagers are high and is increasing

Primary need of energy :

1. **Cooking**
2. **lighting**
3. **Livelihood activities**
4. **Water heating**

Villagers using unclean fuel for these purpose.

Problems connected to it

- In addition to high Carbon emission,
 - i) Increased expenditure for fuel
 - ii) Impact on the health
 - iii) High cost of energy affects potential livelihood/reduced income
 - iv) Education of the rural children



Use of Solar Energy

1. Solar water heaters (only 5% of Rural households using it)
2. Solar Street lights
3. Solar lanterns
4. Solar Dryers and
5. Micro Solar Domes



Problems with current usage

- No ownership from the part of the community to the introduced solar projects
- No local technicians trained in the operation & maintenance of the projects
- Problems with the storage of solar energy (its high cost & low longevity)
- Cost of off grid roof top PV plants

Intervention Required

- Solar cookers (available but not popular/not user friendly)
- Solar Water purifiers
- Solar water pumping system
- Low cost water heating units
- Low cost solar dryers for Fruits & vegetables



Potentials


Building the capacity of Women Self Help Groups as Local Entrepreneurs in Solar Energy products & services

This will improve gender parity as well as solar power revolution in rural India

Promoting SHG operated village level Entrepreneurships help women become the pioneers of clean energy.

Solar Conduction Dryer



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- Capacity of the Dryer: 12-15 kg Fruits
 - 32-66% time saving than normal drying
 - Area- 2 x 2 meter (4 M2 Drying area)
 - Cost Rs.35000 (Euro 450) – 4 Trays
 - **Using the Dryer for :**
 - Drying – Banana for making baby powder, Jack fruit seed for powder, & for drying Drumstick leaves.

Dried banana powder



Ready-To-Cook Tender JF (Veg)



MSD introduced in Tribal villages



MSD – inside the household



MSD installed in the tiled house



Target group



products



Thank you

