

Clean Energy Interventions for Livelihood Generation

Supported by
The Royal Embassy of Norway

Implemented by TERI
Facilitated by SAMBANDH, Odisha

TERI's Solar Multi Utility helps initiate mass production of herbal products in rural Odisha

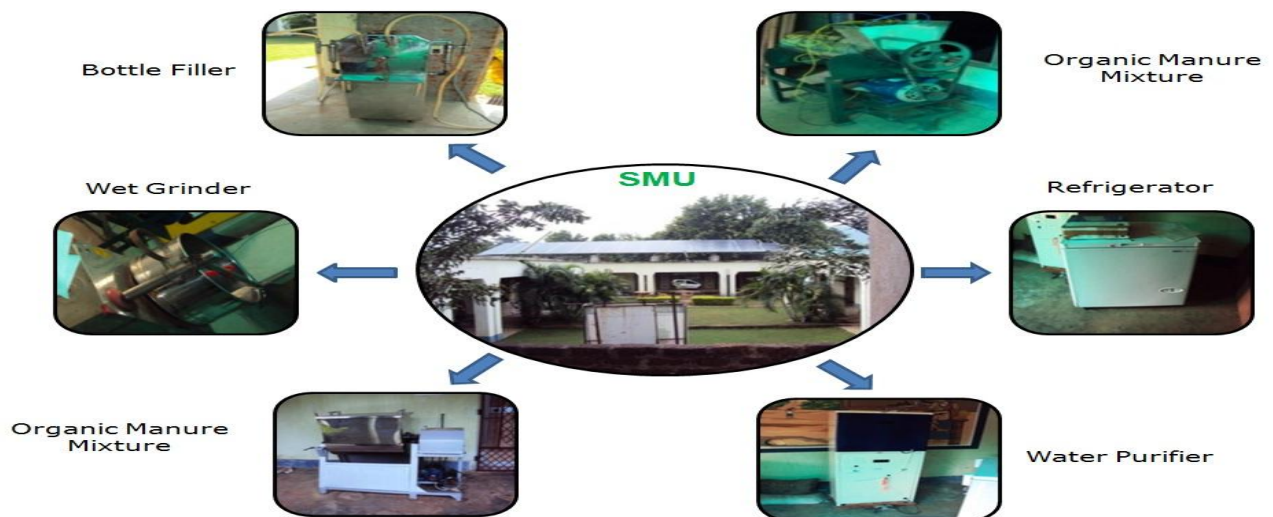
Solar Multi Utility

TERI's Solar Multi Utilities (SMUs) provide access to energy through clean energy interventions, for livelihood generation in rural areas. Using electricity from a solar power plant, a variety of appliances and machines such as mixers, grinders, water purifiers and so on are operated.

This initiative aims to use the latest technological and scientific know-how in designing, developing, customizing and testing technologies to meet specific end-use applications of rural communities in reliable and cost-effective manner. The second focuses on how communities associate themselves with the newly-introduced technologies and accept/enhance the uptake of energy services for their socio-economic benefits and transition to sustainable developmental practices.

TERI's focus is on how communities associate themselves with the newly introduced technologies and accept/enhance the energy services for their socio-economic benefit.

TERI has installed three Off-Grid solar PV plants in Cuttack and Mayur Bhanj districts of Orissa. Patapolasahi is one such village in Cuttack district which faces acute energy shortages due to lack of reliability of the grid. For this site, solar rooftop PV system with the capacity of 8kWp, Battery Bank of capacity 48V, 300Ah and Utility Grid are being used as the Distributed Energy Resources (DERs). Some of the livelihoods generating appliances installed at this site include vaccine refrigerator, water purifier, manure mixer, wet grinder and bottle filling machine.



TERI's Solar Multi Utility provides clean energy to power a variety of applications in rural areas

Impact: Mass Production of Herbal Products, by Healing Heritage Producers Company, Kuchilanuagaon, Cuttack District, Odisha.

In the late Nineties – farmers in the area found it hard to fend for basic amenities. The Population of the villages had grown, the size of family had enlarged and more mouths were to be fed but the land holdings remained constant, the productivity had depleted, Poverty was obvious and unavoidable.

The farmers started migrating in search of livelihood. In response to this, SAMBANDH (A long standing implementing partner of TERI) organized the farmers and facilitated the formation of the association – awareness, demonstration and mobilization went into process of formation of the group, and it was resolved that the group would engage in preserving the indigenous knowledge of ‘healing’ and produce – process – market medicine made of herbs and plants growing in the periphery.

But with limited access to electricity, production was getting hampered. Therefore to enable these farmers to better process their produce using clean energy and scale up the quantum of production, TERI in partnership with SAMBANDH has implemented a Solar Multi Utility in this area. This SMU is used not only by Healing Heritage but also by individuals and other SHGs and local groups for various other activities.

Today, the Association is able to mass produce, adhere to client timelines and quantities and this has resulted in an overall increase in income of the farmers involved in this business.



Production of herbal products using machinery powered by TERI's Solar Multi Utility



Healing Heritage in the Green Haat event organized by the Ministry of Environment and Forests at Dilli Haat, between 16th January and 31st January 2013. A poster explaining the SMU and how it has contributed to higher productivity is on display at the stall.

