



GRAM OORJA SOLUTIONS PRIVATE LIMITED
Energy is the Enabler

RURAL ENERGY

Millions of rural households, farmers, institutions and businesses in India suffer from little/poor quality/no access to reliable sources of energy. According to 2011 Census data, about 75 million rural households do not have access to electricity. Many villages are located in remote/inaccessible areas where extension of grid is not feasible.

About 105 million rural households use firewood as a cooking fuel. It is causing deforestation and adversely affecting on health of rural population. These problems can be mitigated using local renewable energy sources with long term sustainability.

ENERGY IS THE ENABLER

- **Education:**
Electrification of rural schools enables computer usage and science laboratories and longer study hours for students after dark
- **Health:**
Electrification of health centers allows them to use modern equipment and cold storage, Filtered drinking water plants to mitigate water borne diseases as well as Reduction in smoke related diseases due to firewood based cooking
- **Environment:**
Reduced dependency on forest firewood and Nominal harmful greenhouse gas emissions due to the use of renewable energy.
- **Livelihood generation:**
Irrigation for a second crop in many tribal areas, Milk chillers and other conversion of raw material into more remunerative products
- **Women empowerment:**
Cleaner, healthier and less cumbersome cooking systems with bio-gas, Saves time, energy and money spent in getting firewood and kerosene and Increases time for family and for productive cottage industries
- **Entertainment and Communication:**
TVs and mobiles allow people to be connected

ABOUT GRAMOORJA

Gram Oorja was established on 24th April, 2008 by 4 young entrepreneurs, who realized that sustainable energy in its various forms would become even more main-stream and would have an increasingly significant role to play in the rural context.

Gram Oorja experimented with various aspects of renewable energy solutions in diverse parts of rural India, garnering, in the process –

- Understanding and experience of renewable energy technologies like solar and biogas
- Experience of what would work and what would not
- A strong grassroots network in the rural heartland of India
- Recognition among various government and non-government NGOs, universities in India and abroad (MNRE, ORF, Prayas Energy Group, GIZ, Princeton, Berkeley, to name a few)

The core principle of all projects implemented/designed till now have been –

- Sustainability of the projects
- Captive use of the energy by the institution or community

Our philosophy is - निमित्तमात्रं भव - "Be only an instrument", as exhorted by Sri Krishna in the Gita.

Our Mission is to focus on and act as a catalyst in commercializing on-the-ground viable renewable energy solutions for the rural sector and small-scale applications.

Gram Oorja believes that rural energy needs can be fulfilled from local resources. This will lower the dependence of rural India on the large centralized power systems making them self-sufficient with respect to their own electricity needs.

KEY STRENGTHS

- Market interaction across India - villages, plantations, ashrams, businesses, etc. enabled by relationships with grassroots networks in these areas
- Team of employees and consultants - people familiar with end to end process from surveys, project execution to operations and maintenance
- Willingness to work in geographically difficult markets
- Relationships with key stakeholders - NGOs/Government bodies such as MNRE, IREDA, NABARD etc.
- Design and implementation capabilities in different renewable technologies suitable for off-grid solutions especially solar PV and bio-gas

OUR EXPERTISE

Solar PV based Microgrid Systems



Gram Oorja provides electricity beyond lighting. In our system, productive applications are given high priority so that villagers can augment their income also. All houses get single phase grid through distribution poles where each house is metered and pays a monthly bill based on usage.

Biogas based Cooking grids



Community bio-gas plant based on cattle manure, food or agro-waste can be used for cooking or process heating. In our system, Bio-gas is distributed to the community and the usage is metered and charged to the consumers based on a predetermined tariff rate which can take care of O&M costs.

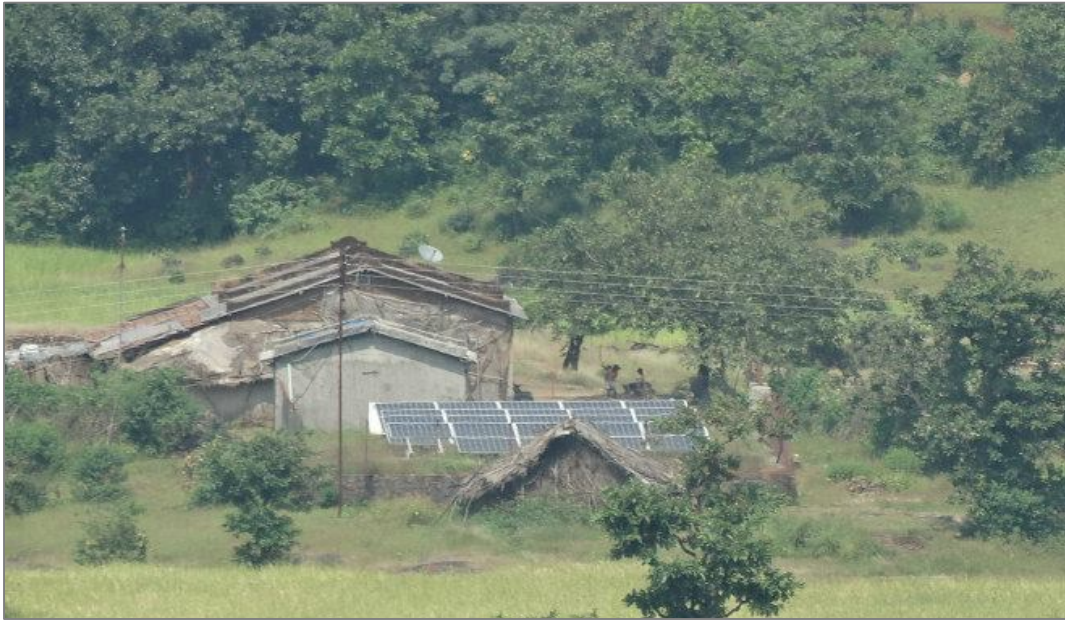
Others



Gram Oorja has also expertise at providing Electricity as a Service (ESCO), installing Solar PV pumps in remote villages, as well as carrying out Solar /Bio-gas EPC, Demand assessment and policy inputs for rural energy solutions, surveys to determine status of established projects.

OUR PROJECTS

Solar PV Microgrid system at Darewadi, Pune



Biogas Cooking grids at Kolvan, Pune



Solar Pumps at Jawhar, Thane



ESCO for Rural BPO at Sitapur, Uttar Pradesh



Energy is all around us in super-abundant quantities. Man's need for energy on tap is also growing. All that is required is the enabling of natural energy into forms that man can use.

Gram Oorja is that enabler. Our philosophy is to provide sustainable energy to rural communities through our paradigms and systems in a manner that will allow these to run for decades.

Gram Oorja is now expanding its activities among the tribal population of India through various projects on Solar PV Microgrid, Solar Pumping and Biogas based Cooking Grid. Gram Oorja is also gearing up to implement Biogas based cooking grid programme for 1000 villages within the next 5 years.

CONTACT US

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