



Project Proposal
for
Solar based power project
at
Micro Enterprise Development Programme
Centre, visakhapatnam

Proposed by:



Srujanavani Voluntary Association

Plot Number C- 215, SVLNS Phase II, Vepagunta

Visakhapatnam -530047, Andhra Pradesh, India

Phone: 91-9666970436, 91-9346908717, 9346007003, e-mail: info@srujanavani.org

Website: WWW.SRUJANAVANI.ORG



| S.No | TABLE OF CONTENTS | Pg.No |
|-------------|--|--------------|
| 1 | ORGANISATION PROFILE | 3 |
| 2 | ENERGY SCENARIO IN ANDHRA PRADESH | 4 |
| 3 | GENESIS | 5 |
| 4 | OUR PROJECT | 6 |
| 5 | OUR CREDENTIALS | 6 |
| 6 | FINANCIAL SUPPORT | 7 |
| 7 | SUMMARY | 7 |



1. ORGANISATION PROFILE

Srujanavani Voluntary Association is a charity based voluntary organization working towards development & upliftment of society. The main motto of our organization is Man Making. With immortal spirit at heart, man making as the instrument, SRUJANAVANI is determined to build that UTOPIAN INDIA where development is concomitant with the rich and diverse heritage of our nation, India.

Registration Details:

- Established Date: 26 Sept, 1996
- Regd.No : 1980/2005 (Societies Registration Act)
- Regd under Sect 12A & 80G (Income Tax)

Governing Body

- President : Shri. R Chandrasekhar
- Vice President : Shri. A V Chandra Sekhar
- CFO : Shri. B Sreekanth
- Org. Secretary : ShriY.V.Tarak

Contact us:

Contact person: Y V TARAK (Ph No: 9666970436) / Y BHARATH (9010351224)

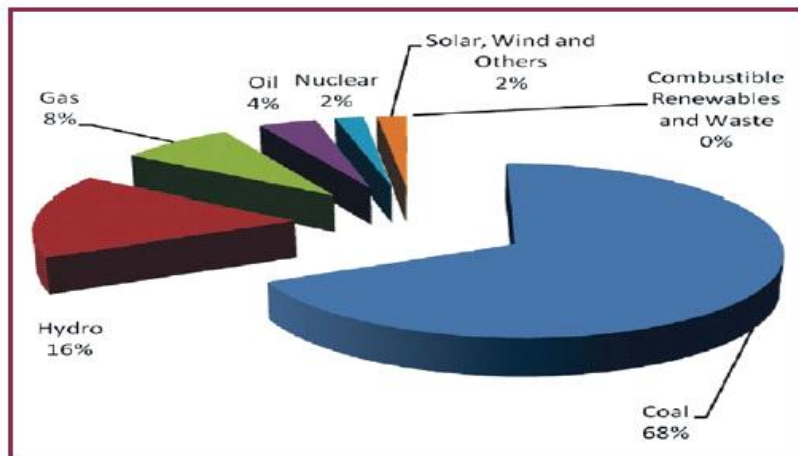
Website address: www.srujanavani.org

Email id: info@srujanavani.org

2. ENERGY SCENARIO IN ANDHRA PRADESH

From times immemorial human race has survived, grown, flourished and prospered on the basis of energy produced and utilized. Energy is so intricately linked with man and his activities without which his survival is at stake. Energy is a major component to be fulfilled for a nation to traverse the path of development. The proportion of energy sources from where India's electricity is sourced from can be known from the following figure.

Figure 1: Breakdown of India's Electricity Generation, 2007



Source: International Energy Agency. *Energy Balances of Non-OECD Countries, 2009 Edition*. 2009.

By any comparison the percapita consumption of energy in India is very low. However this scenario is going to change as the demand for energy is set to increase at unprecedented rate. Besides getting access to new sources of energy reserves it is equally important that we safeguard our environment and ensure that we transcend the same to our future generation without further degradation. In the present scenario Coal is still considered as the major source from which energy is sourced from. An increased dependency on coal results in the increased pace of depleting our natural resource which is already on a declining note. In order to satiate the increased peak energy demand there is an unending need to shift to non conventional sources of energy.

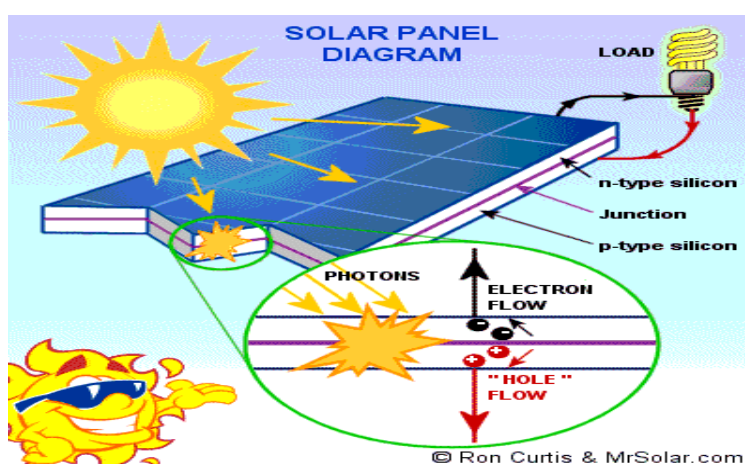
India which geographically belongs to the semi tropical region is blessed with a huge potential to harness the solar incidence. With the increased focus being given to non-conventional sources of energy, solar power can become a powerful tool for the integrated development of the society. As per the government surveys it is estimated that nearly 56% of the rural households do not have the access to power inputs. With such a condition prevailing in the rural backyard, it is imminent to have a distributed yet integrated power generation models.

3. GENESIS:

Srujanavani has been in the field of rural development for the past 10 years because of which it has multiplicity of experiences in working with the rural people. We have observed problems faced by villagers during our surveys, some of which are enlisted below.

- Majority of the villages do not have access to any sort of electrical connectivity. Even if present, the villages experience huge power shortages.
- Agricultural activities, education of the children are the two major activities that are badly hit by power deficits.
- Power thefts are common phenomena in the villages.
- People do not have enough knowledge regarding the resources from which they can harness power (biogas is unutilized in majority cases).

With the above inputs in place, and the slow pace of government machinery functioning, there is an immediate need to make people aware of the sources of power which can be harnessed and put to use for a better standard of living.



4. OUR PROJECT

Srujanavani has engaged itself in the development of rural folk by actively engaging the members of the community to create their own destiny. For them to get access to the knowledge regarding various developments in the field of energy, Srujanavani has conducted various training sessions viz. dairy based livelihood programme, agri based livelihoods, etc. Srujanavani has trained around 500 youth in Cheedika&madugulamandals of visakhapatnam. Inorder to conduct such training sessions on a continuous basis we have built a permanent setup, named as **Micro Enterprise Development Programme Centre** at Pongalipaka village, around 80kms from the Visakhapatnam. However there is a continuous interruption in the power supply in this particular village, because of which the trainings are totally dependent on the availability of power. Most of the trainings are conducted in the evening as most of the youth are engaged in agricultural and daily wage works; this necessitates the need for an alternative power source.

In order to address the prevailing lacunae it has been decided to install the requisite infrastructure so as to electrify the Micro Enterprise Development Programme Centre with solar power as the input source. We should be able to establish a solar panel with support infrastructure such that it can supply enough power to the equipment needed for training for which the necessary financial breakups are provided in the finance section. With the onset of the project the prevailing problem of continuous power cuts can be mitigated

5. CREDENTIALS WE POSSESS

Srujanavani has made a nascent beginning in the field of non-conventional energy sources as part of its environmental concern. We have organized many camps with the villagers to create awareness about the importance of non-conventional sources.

- Supply of solar lanterns:

Srujanavani has provided solar lanterns to tribal habitations of Araku valley. People do not possess the regular electrical supply and majorly dependent on the sun for their daily chores.



- Conducted solar impact surveys:

Srujanavani has undertaken solar impact surveys to have a firsthand experience about the change that has been brought about in their lives after the supply of solar lanterns.

- Vast experience of working with the rural communities:

We have a vast experience in working with the rural communities and helped them get access to their due entitlements. There has been an increased acceptance amongst the villagers because of the various initiatives taken up by Srujanavani and team



- Attended training sessions:

Some of our members have attended training sessions conducted by premier research institution i.e. The Energy Research Institute (TERI) in association with NABARD.

We have received valuable experience through this session and came to know about various incentives provided by Government of India in promoting non-conventional sources of energy.

- Huge network with NGOs:

Srujanavani has actively networked with various people, NGOs, Government machinery which has helped us to get regular information about various schemes and the latest updates coming in the field of non conventional technologies.

6. FINANCIAL SUPPORT :

The wattage required for the proposed set up is show below:

| S.No | Equipment description | Quantity | Wattage required (in watts) |
|------|-----------------------|----------|-----------------------------|
| 1 | Ceiling Fan | 2 | 60 |
| 2 | Fluorescent Bulb | 5 | 20 |
| 3 | Desktop | 1 | 150 |
| 4 | Projector | 1 | 200 |
| 5 | Speakers | 2 | 200 |
| 6 | Amplifier | 1 | 50 |

Total Load : 1020 W

We are attaching one of the NABARD sponsored solar power suppliers quotation. The cost for installation of solar power system with a battery back up is Rs 35,100 after subsidy by NABARD.

7. SUMMARY

This project will stabilize our MEDP training centre and mitigate power problems through alternative solar power. This will help youth to acquire knowledge on various training programmes through interactive sessions with resource persons in the centre. This will help youth to unleash their hidden potential to make a living.

In our power deficit world, it is important to conserve our mother nature and to maintain it in its pristine form. With the onset of increased pace of depletion of our natural resources, it is imminent that we make use of the non conventional sources of energy and preserve our reserves for the future. So our developmental model is one that should meet the needs of the present without compromising the ability of future generations to meet their own needs.