



SOLAR CONCENTRATOR EVOLUTION IN INDIA AND WAY AHEAD

Deepak Gadhia, Trustee (Board Member)

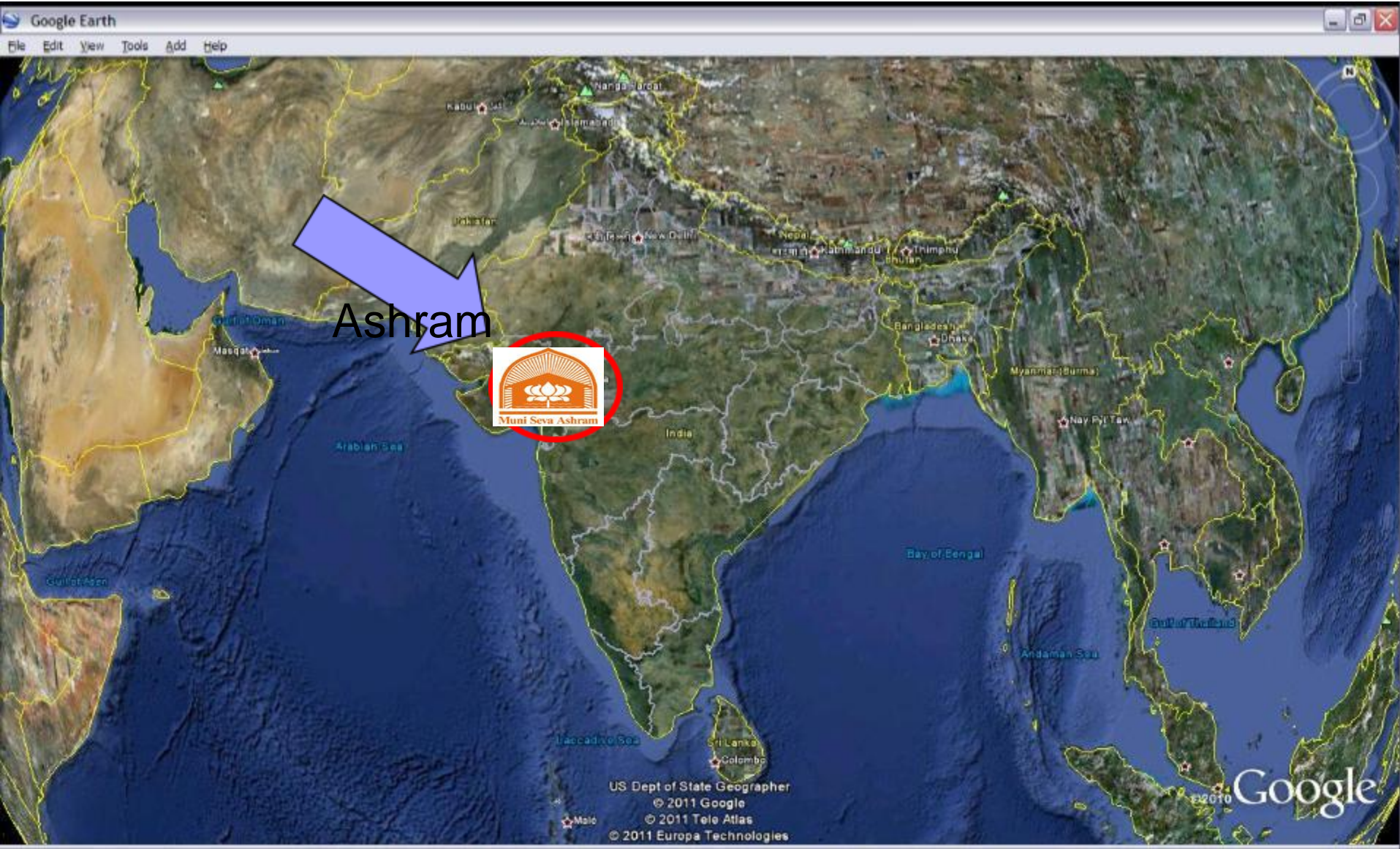
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About Ashram - Geographically Speaking



The Green Ashram Muni Seva Ashram complex



Brief background on myself and how I came in touch with and joined Ashram



Mr. Rajiv Gandhi with
Dr. Mrs. Shirin Gadhia



Mr. Rajiv Gandhi with
Mr. Deepak N. Gadhia

With Mr. Rajiv Gandhi of Congress (I) at the Non Resident Indian Congress,



GadhiaSolar



Muni Seva Ashram

Fuelwood Crisis - Our Fragile Ecological Environment.



Two billion people need fuelwood for cooking. 80% of the fuelwood is used in Third World countries.



Half of the logged trees, goes for cooking. Trees are cut faster than they can be replenished.



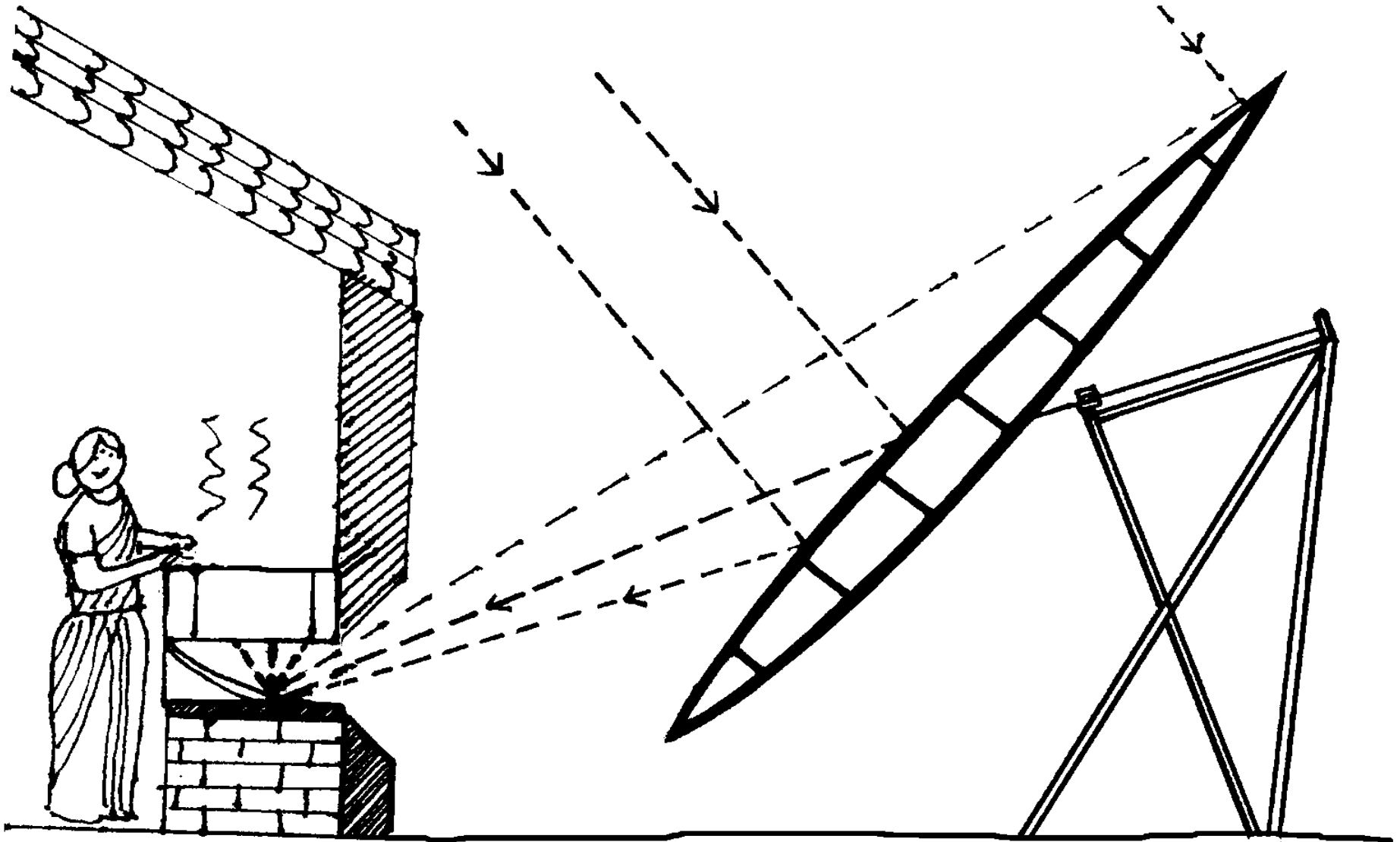
Solar Box Cooker



SK-14 Solar Cooker



Indoor Community Solar Cooker





Indoor Solar Cooker



Indoor Solar Cooking



Cooking at Night with stored Solar Energy



Development of Solar Steam Cooking System (pair mode) for Institutional cooking



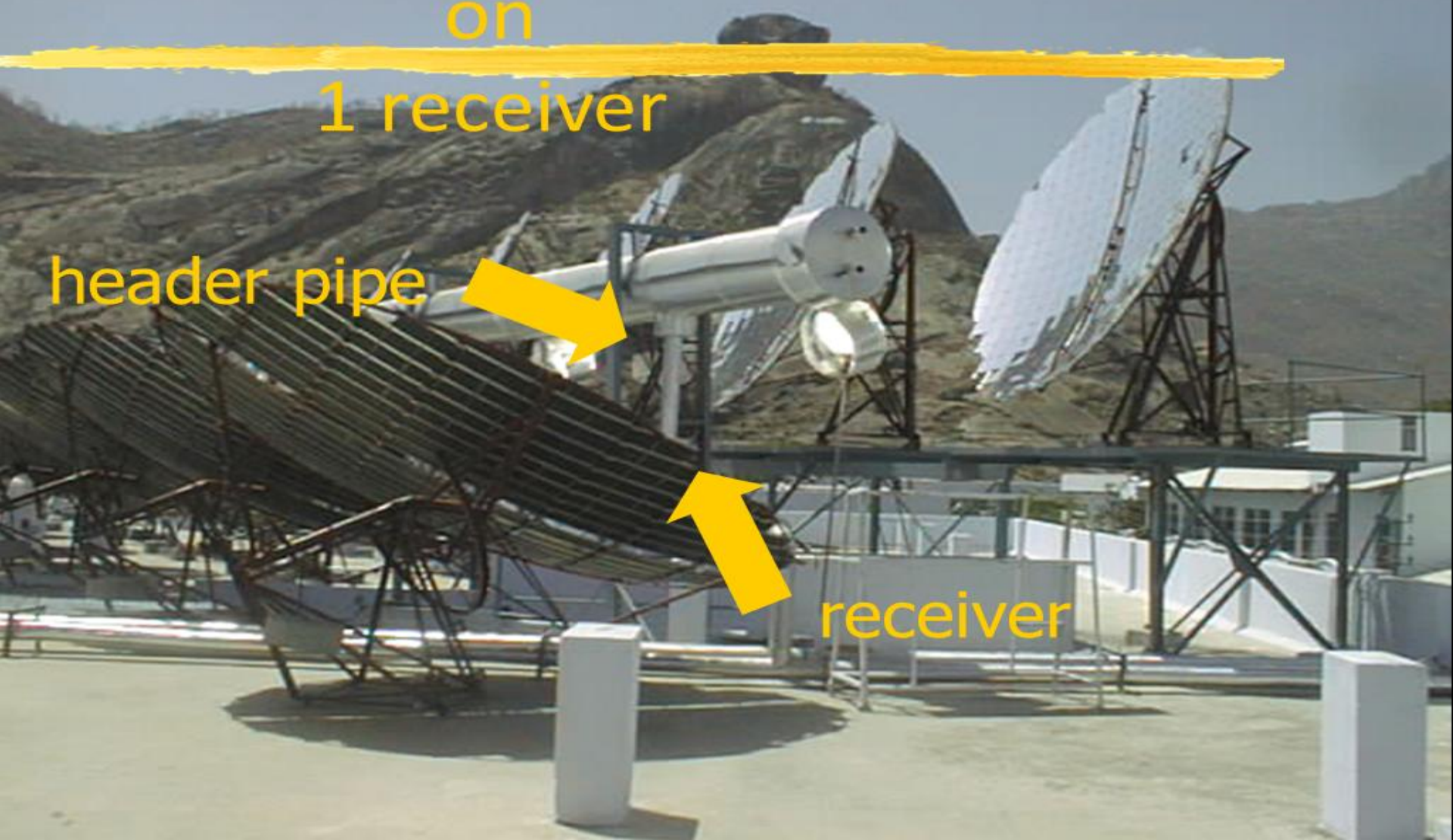
2 reflector on single focus

on
1 receiver

header pipe



receiver



Solar cooking vessels steam direct injection,
jacketed for steam/ thermic fluid



Solar Cooker with 106 Concentrators for 30,000 meals per day



**Solar Steam Cooking
System for 15' 000 people**
(was till June 09 World' s largest)

Tirumala Tirupati Devasthanams (TTD)
Andhra Pradesh, India

World's Largest Solar Cooker



From 30th July 2009

Worlds's Largest
Now is Shirdi Temple that cook
50,000 meals per day



World's Highest Solar Cooker



**10 Concentrators to cook for 500 people for
Indian Army in Ladakh**



Kitchen before/ after Solar



Sangi Industies, Hyderabad for their industrial canteen to cook for 500 workers.

Rishi Samskruti Vidya Kendra near Bangalroe to cook for 500 students



Sri Saibaba Santhan Shirdi to cook for 3000 people per day

Solar in food processing industry



Solar Bakery



Drinking water from Sea Water



Solar Waste Water Evaporation System



Solar Thermic Fluid System that enables making chapti and frying and also storage of energy at night and next morning at Vankuva School.



Wood Fired steam generated in boiler replaced with Solar Steam



Cooling with heat of SUN Solar Air Conditioning/ Chilling



Solar Crematorium



770 Scheffler dishes of 60m² each for 3 MW Power Generation at Brahma Kumari's, Abu with metal storage



New development large solar concentrators of 60 m²



Solar Thermal application for Process Heating in rubber Industries





Arun Dish- 160
m² Fresnel
dish
for Milk
Pasteurisation
at Latur



Joshi-Panse EnerSun CLF Automatic System

Automatic rice Cooker cooks with hot water not steam



Muni Seva Ashram



***ENERSUN PROCESS HEATING SET-UP
AT CHEMICAL PLANT SITE AT MAHAD***

Storage enabling cooking at night..



Testing of Flat foil Concentrator with mirco-mirrors with nano-technology





THE HINDU PAPER CLIPPING



Muni Seva Ashram

20* THE HINDU, Friday, January 7, 2005

NEWSCAPE

A little village in the sun

By A. D. Rangarajan

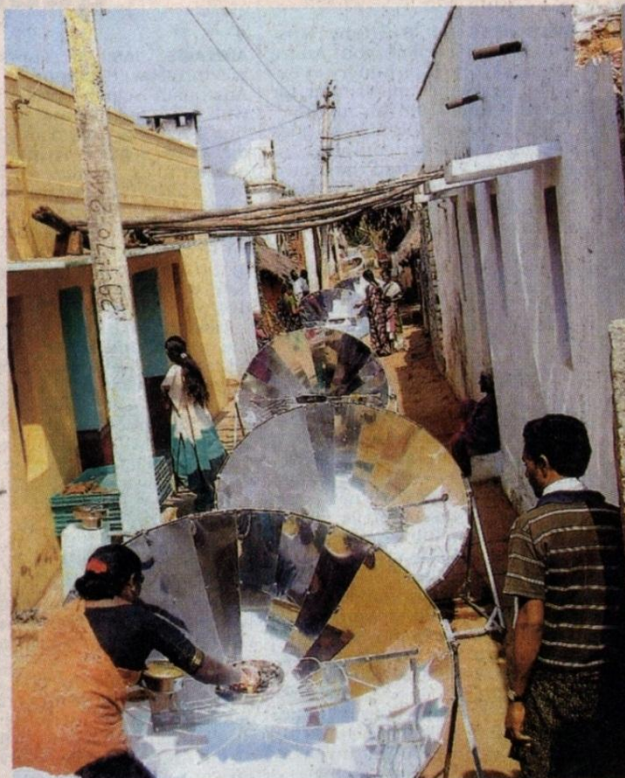
TIRUPATI, JAN. 6. Here is a bright little village in Andhra Pradesh that is all solar and smoke-free — the first of its kind in the country.

Bysanivaripalle, 125 km north-west of Tirupati, has 36 families. Their main means of livelihood is sericulture. The eco-conscious residents of the electrified village went in for the first biogas plant in the region two decades ago. The officials of the Non-Conventional Energy Development Corporation of Andhra Pradesh (NEDCAP) did not need to put in much effort to motivate them to go solar.

Intersol, an Austrian non-governmental organisation, sponsored the provision of "Sk-14" cookers here last year. Gadhia Solar, a Valsad-based environmental body that imports, supplies and installs them, executed the job. It is the single largest cluster of cookers that Gadhia Solar has installed anywhere. A group of schoolchildren from Austria visited the village last year to witness the project.

"With 23 biogas plants and 26 solar cookers, we do not have to use a matchstick," says Sadananda Reddy, a progressive sericulturist who was honoured by the Karnataka Government recently for his top quality cocoons.

Apart from preparing rice, the solar cookers are used to fry chips,



COOKERS ALL THE WAY: On a street in Bysanivaripalle in Andhra Pradesh.

roast peanuts and make traditional Andhra sweets. Eyeing sales in the nearby Madanapalle town, a few enterprising people are baking cakes and biscuits too.

The physically challenged local washerman has stopped buying coal: he keeps his traditional iron on the cooker and takes it out burning hot in 10 minutes before he flattens creases into a starchy crisp.

Says Papulamma, who cooks midday meals for 48 children in the village school: "No need to go to the forest anymore to fetch firewood. I cook the meal in less than two hours and avoid coughing, and burning in the eyes." To counter the harsh sunrays, NEDCAP has provided the women sunglasses.

The village saves 72 tonnes of firewood, or 5,832 kg of LPG, cutting carbon dioxide emissions to the tune of 104 tonnes a year, according to Jagadeeswar Reddy, NEDCAP's district manager.

The village has come in for praise from the developer of the Sk-14 cooker, Dieter Seifert of Germany. In an e-mail message, he says: "There may be places where there are more number of solar cookers, but I have never come across an entire village using just solar cookers and biogas, which makes it a smoke-free village in the real sense."



SMOKE FREE VILLAGE with 26 K-14 SOLAR COOKERS & 23 Biogas Plants





SK14 for Ironing Clothes



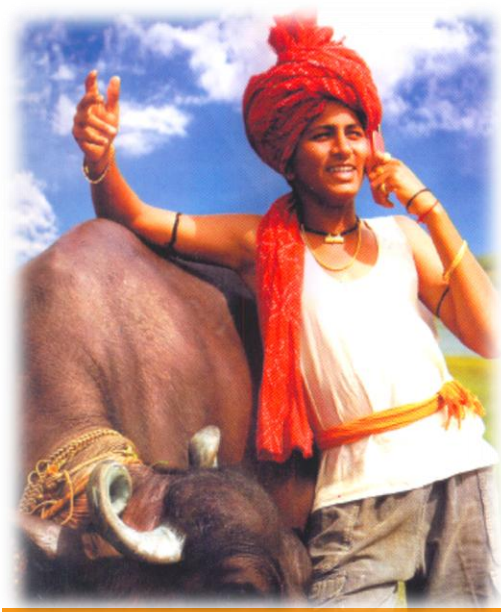


Invited by Bill Clinton to Hongkong Clinton Global Initiative (CGI) meet



President Dr Abdul Kalam seeing his vision of “Providing Urban Amenities in Rural India” (PUARA) being implemented at Ashram farm





Thank You



Video Links on “Muni Seva Ashram”

- YOUTUBE Videos & Links:

- 14-Min Video: <http://www.youtube.com/watch?v=d-c8kXu5-20>
- 7-Min Video : <http://www.youtube.com/watch?v=jaSlzvrf0b4>
- Cyclotron Project: <http://www.youtube.com/watch?v=O5U6vN-7qWA>
- VTC: <http://www.youtube.com/watch?v=irCv8QOV3RM>
- Ashram History: <http://www.ijourney.org/story.php?sid=14>

- Euro News : <http://www.euronews.net/2010/09/21/muni-seva-a-green-tech-indian-ashram/>
- Solar Kitchen (German) <http://www.dw-world.de/dw/0,,13263,00.html>
- Solar Kitchen (English) <http://www.dw-world.de/dw/0,,13291,00.html>

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