



THE BAREFOOT COLLEGE PRESENTS

THE BAREFOOT COLLEGE CAMPUS

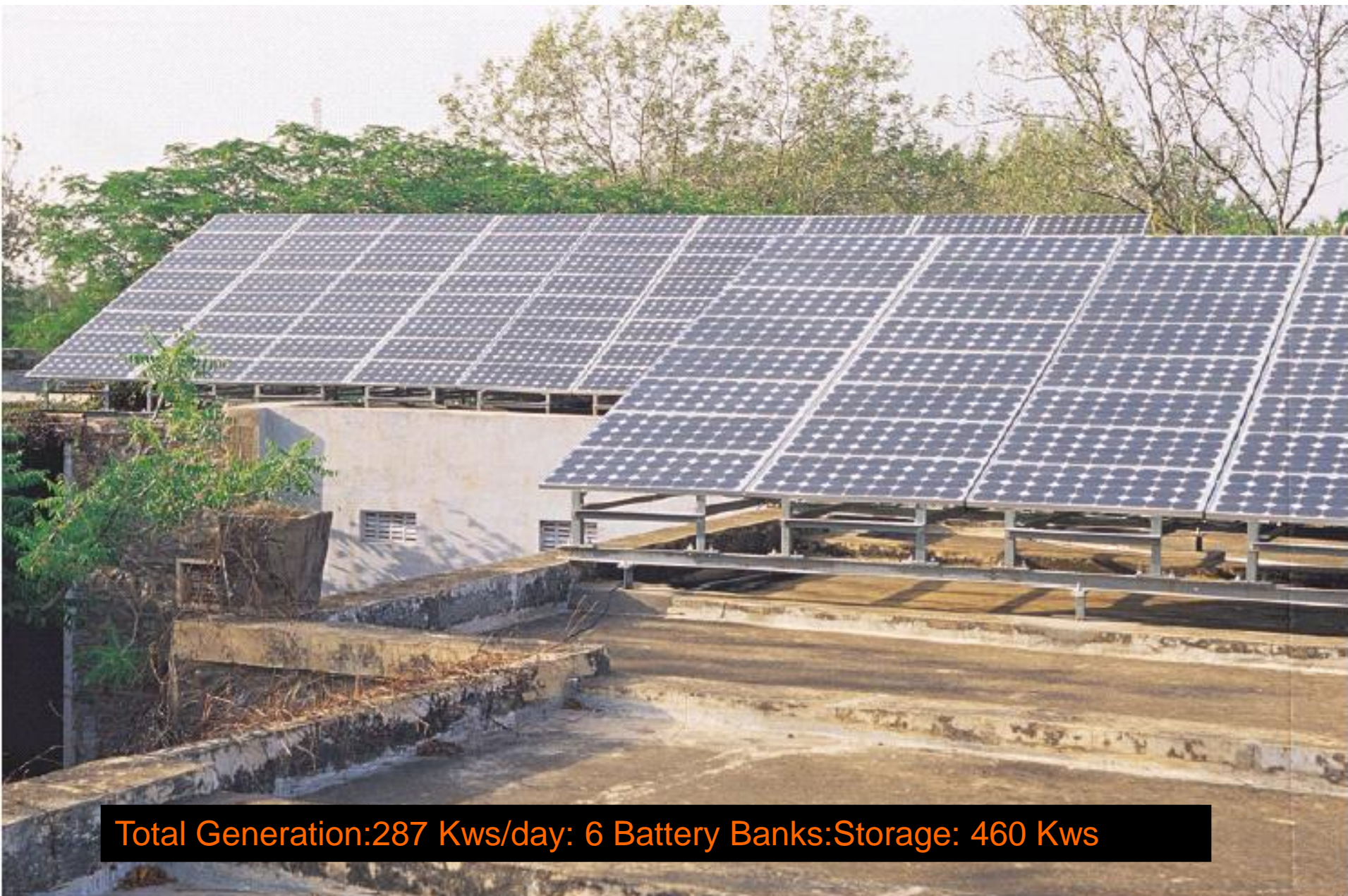
Design-1986 / Construction-1986-89 / Site area - 35,000 sq.m / Built area-2,800 sq.m / Cost - INR 6,000,000 (USD \$ 120,000)



The first barefoot solar engineer of India: fully solar electrified the campus between 1986 and 2000



A Priest turned solar engineer became master trainer



Total Generation:287 Kws/day: 6 Battery Banks:Storage: 460 Kws



The campus has 40 KWs of solar panels.







An aerial photograph of a campus featuring several buildings with flat roofs. Five red arrows point to specific solar panel installations on these roofs. The campus is surrounded by green trees and a dirt area. A black text box is overlaid at the bottom left.

45 Kws: 5 separate solar power plants: only fully solar electrified campus in India

BAREFOOT COLLEGE SOLAR POWER GENERATION & CONSUMPTION AS OF 2007

1-NUMBERS OF PANELS INSTALLED	64 NO. of 80 watts 40 WATTS=275 NO., 70 WATT=360
2- AMOUNT GENERATED PER DAY	43.5 Kw/hr (7 hours of sunlight)
3-NUMBER OF INVERTORS CAPACITY	12 3 KVA
4-TOTAL CAPACITY GENERATED PER DAY	287 KW
5-BATTERY BANK	6 (76.800 Kw/bank) 800 Ah 48no. battery bank
6-STORAGE IN BATTERY BANK	460.8 KW
7- EQUIPMENTS RUN BY SOLAR	30 computers (24 hours)
8-TOTAL CONSUMPTION FAX,PHOTOCOPY MACHINE PBX PROJECTORS/VCR/TV	15 kw /day
9- Lights and fans	700 lights 140 fans

BAREFOOT COLLEGE : SOLAR ELECTRIFICATION FOR LIGHTING (1984-2008)

- 1) Districts: 16
- 2) Villages: 599
- 3) Houses: 11,965
- 4) Barefoot Solar Engineers (289) : 213 Men & 76 Women
- 5) Total Wattage: 550 Kw
- 6) Approx. Cost of Establishment: 11 Crores
- 7) Annual Saving of Carbon Emissions =1.9 M. Tones

5,200 solar lanterns:
225 Night schools in
6 States

RAJASTHAN (1984-2008)

Schools(275) Villages (32)
Districts- Ajmer, Jaipur, Sikar, Barmer,
Baran, Nagaur: Total Houses (4264)
Wattage (722 Kw)

GUJARAT (1989)

20 Schools BSE (2) 800 Watts

UTTAR PRADESH (1989-2001)

10 Schools, 3 Villages (205 Houses)
BSE (3) 4.5 Kw

MADHYA PRADESH (1989-2000)

20 Schools, 17 Villages, 300 Houses
BSE (7), Wattage(8Kw)

Jamu & Kashmir: Ladakh (1989-2003)

Villages (82), Houses (3362) BSE (73 men), Wattage (110Kw)

Himachal Pradesh (2000)

Villages (14) Houses (256) BSE (7) Wattage (8 Kw)

Uttarakhand (2000)

Villages (10) Houses (528) BSE (12) Wattage (18 Kw)

Arunchal Pradesh (1989)

10 Schools 370 Watts

ASSAM (2000)

Villages (8) Houses (700)
BSE (13) Wattage (41 Kw)

SIKKIM (1996-2006)

Village (32) Houses (1332)
BSE (34) Wattage (56 Kw)

BIHAR (2000)

Villages (41) Houses (488)
BSE (10) Wattage (60 Kw)

JHARKHAND (1989)

90 Schools 5.5 Kw BSE (3)

ORISSA (1989)

15 Schools, 130 Houses ,10 Kw BSE (10)

ANDHRA PRADESH (2004-06)

13 Schools, 7 Villages, 400 Houses
BSE (13) , Wattage (12 Kw)


KERALA (1989)

10 Schools BSE (3)

TAMILNADU (1989)

30 Schools, 1.8 Kw BSE (3)

125,000 people
have benefitted

A close-up portrait of a woman with dark hair, looking directly at the camera. She is wearing a dark garment. The background is a light, textured wall.

Faryab

Name : Gul Bahar

Age 55

Married

4 children

Education

Ten Years

Of Rural


Schooling

The best grandmother solar engineer today-looking after 200 solar units since 2005



Cost of Solar Electrifying 5 villages in Afghanistan is the cost of one UN Consultant sitting in Kabul for 1 year

Daikundi



Today the women have trained 27 more women in Afghanistan and solar electrified 100 villages



What is the barefoot approach in Africa?



Call a meeting of the whole village to decide: 1. How much each family is prepared to pay in writing for the use of the solar unit



Each house will get one fixed solar light(11 watt) in the house, one LED Light, one solar lantern and one plug to charge mobiles costing \$ 350 each



2. Form a Village level Committee to Collect the monthly contribution for repair and maintenance and paying the women engineer



Select the illiterate rural grandmother to be sent to india for 6 months to be trained as a solar engineer



Community must agree to donate a room to establish a Rural electronic Workshop to carry out instant repairs



Rural Electronic Workshop-Sierra Leone



The best solar engineers all over the continent of Africa have been the illiterate rural grandmothers