

NON-CONVENTIONAL SOURCES OF ENERGY

The Pondicherry Experimental Solar Pond power project is a joint venture of Pondicherry Engineering College and Electricity Department of Government of Pondicherry, funded by the Government of India, under National solar pond development Programme.

The uniqueness of the project are : (i) it is the first and only solar power plant in India (ii) fully indigenous solar thermal plant. The phase I and phase II programmes have been proved successfully with a quantum of 12.5-kWe electric power as per design output.

The revised project report for phase III programme has been approved by Planning Commission in principle. It is now proposed to give heat resistant epoxy coating over the bed and slope walls of the pilot pond and then, the pilot pond will be ready for re-establishment of the salt gradient and to generate electricity by coupling with the ORC engine system.

OUTLAY AT A GLANCE

Sector : NON-CONVENTIONAL SOURCES OF ENERGY

No. of Scheme : 1

Department : ELECTRICITY

(₹ in lakh)

Eleventh Plan 2007-12 Actual Expenditure	:	260.00
Annual Plan 2011-12 Actual Expenditure	:	62.69
Annual Plan 2012-13 Approved Outlay	:	65.00
Annual Plan 2012-13 Revised Outlay	:	84.74
Annual Plan 2013-14 Proposed Outlay	:	52.00

(₹ in lakh)

Sl. No.	Name of the Scheme	Eleventh Plan 2007-12	Annual Plan 2011-12	Annual Plan 2012-13		Annual Plan 2013-14	
		Actual Expdr.	Actual Expdr.	Approved Outlay	Revised Outlay	Proposed Outlay	Of which Capital Content
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Development of Non-Conventional Sources of Energy	260.00	62.69	65.00	84.74	52.00	--

Scheme No. 1

Sector : NON-CONVENTIONAL
SOURCES OF ENERGY

Implementing Department : ELECTRICITY

1. **Name of the Scheme** : Development of Non-Conventional Sources of Energy

2. **Objective of the Scheme** :

To promote the use of new and renewable sources of energy and to conduct research and development on renewable sources of energy. Setting up of solar pond for production of thermal and electrical energy.

3. **Actual Physical Achievements during Eleventh Five Year Plan (2007-12) :**

- i) Rectification works over the bed area / entire slide slope of the 500 sqm. pilot pond was done.
- ii) Maintenance of the ORC power plant was done.

4. **Physical Achievements for the Annual Plan 2012-13:**

Maintenance of the solar pond was done.

5. **Proposed Physical Targets for Annual Plan 2013-14:**

Maintenance of existing solar pond will be done.

6. **Remarks** : Continuing scheme