

## **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.

**OUTLAY AT A GLANCE**

Sector : NON-CONVENTIONAL SOURCES OF ENERGY

No. of Scheme : 1

Department : ELECTRICITY

(₹ in lakh)

Annual Plan 2012-13 Actual Expenditure	:	84.74
Annual Plan 2013-14 Approved Outlay	:	52.00
Annual Plan 2013-14 Revised Outlay	:	82.52
Annual Plan 2014-15 Proposed Outlay	:	52.00

(₹ in lakh)

Sl. No.	Name of the Scheme	Annual Plan 2012-13	Annual Plan 2013-14		Annual Plan 2014-15	
		Actual Expdr.	Approved Outlay	Revised Outlay	Proposed Outlay	Of which Capital Content
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Development of Non-Conventional Sources of Energy	84.74	52.00	82.52	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** :

The objective of the scheme is 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 made in the Annual Plan 2012-13 :**

- Rectification works over the bed area and entire side slopes of the 500 sqm. pilot pond using the ferro-cement technology.
- Maintenance of the ORC power plant and surrounding bunds of the existing 500 sqm. pond.
- Clearing the bushes, shrubs etc. in the solar pond site campus periodically.

**4. Physical Achievements for the Annual Plan 2013-14:**

- Maintenance of existing 500 sqm pilot solar pond
- Construction of 3 nos. of 2000 sqm. pond
- Erection of truss bridge
- Purchase of pond machineries and T&P
- Sinking of bore wells for 2000 sqm. ponds
- Construction of Condenser water storage tank
- Control panel distribution system
- Completion of Phase-III work of Power Plant and coupling with 2000 sqm. ponds
- Operation and power generation from 2000 sqm. ponds

**5. Proposed Physical Targets for the Annual Plan 2014-15 :**

- Chemical treatment using epoxy over the bed and side slopes of the existing 500 sqm. pilot pond.

- Purchase of salt for the establishment of the 500 sqm. pond.
- Pipe line works for the operation of the pond.
- Establishment and maintenance of existing 500 sqm pilot solar pond.
- Construction of First 2000 Sq.Metre pond.
- Preliminary works for the erection of truss bridge

**6. Remarks** : Continuing Scheme