

Corporate Social Responsibility Initiatives



Bettering Lives.....

Power System Operation Corporation Limited (POSOCO)
(A wholly owned subsidiary of POWERGRID)
B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016

[2nd E Journal on CSR & Sustainability activities of FY 2013-14, July 2014]

CSR & Sustainability

Activities undertaken by POSOCO during 2013-14

POSOCO implemented various CSR and Sustainability activities during FY 2013-14 in compliance of the DPE Guidelines on Corporate Social Responsibility (CSR) and Sustainability and the Memorandum of Understanding (MoU) for FY 2013-14.

Four CSR activities were identified under the MOU of F.Y. 2013-14 signed between POSOCO and POWERGRID. The allocated expenditure on these four activities was less than total earmarked CSR budget of Rs. 2.44 Crore (3% of the PAT) for FY 2013-14. Therefore, to utilize the entire allocated budget, additional activities were taken up for implementation. The CSR and Sustainability Policy 2013-14, approved by the POSOCO Board in its meeting held on 27.05.2013, also envisaged to take up other activities for utilisation of the budget earmarked for CSR and Sustainability activities. Accordingly, additional activities related with the area of education & knowledge was chosen for implementation.

The CSR and SD Committee headed by Chairman, POSOCO in its first meeting held on 21st June 2013, had approved the following activities for implementation during FY 2013-14 within total allocated budget of ₹ 2.44 Crore:

Activity identified under MoU 2013-14

- 1 Providing solar lanterns including cooking stoves in one of the backward districts identified by the Planning Commission
- 2 Awards in the field related to Power Systems in the premier engineering institutions to encourage excellence in the area
- 3 Procurement of Renewable Energy Certificates
- 4 Solar lighting system outside the premises of RLDC buildings

Additional activities taken for utilisation of the CSR & Sustainability budget with the approval of CSR and SD Committee

- 5 Awareness programs for school children on energy efficiency, environment friendly technologies and non-conventional energy sources- Project entitled 'E for Energy Efficiency'
- 6 Scholarships to meritorious students in Govt. Schools

Meetings of the CSR and SD Committee and Management Level Committee

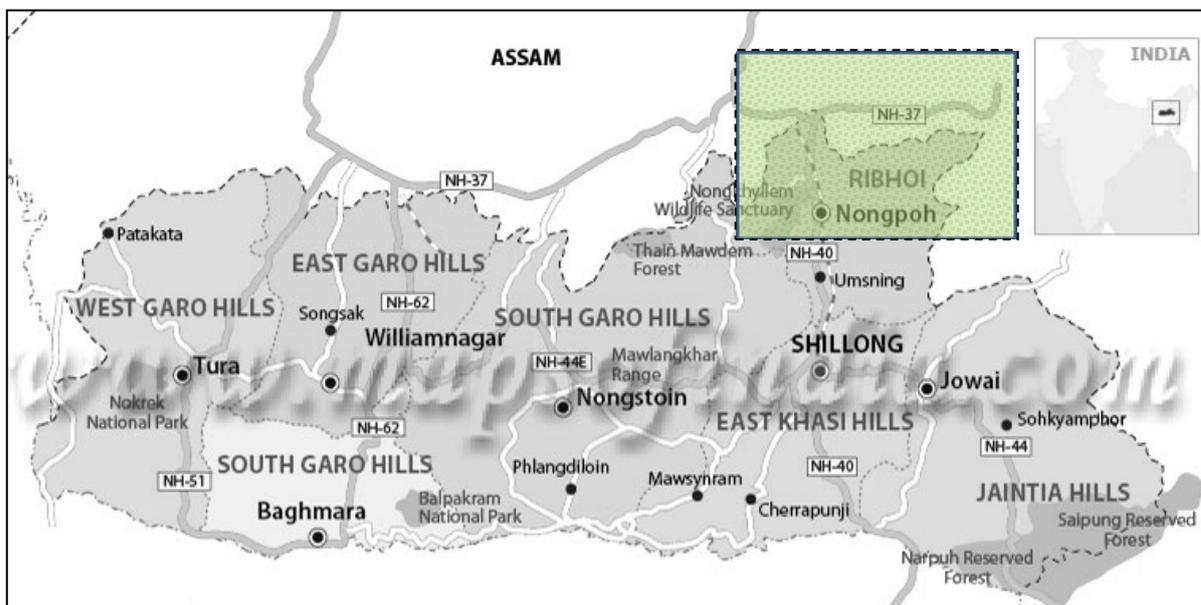
During the year 2013-14, for implementation of the activities mentioned above, two meetings of the CSR and SD Committee were held on 21.06.2013 and 13.02.2014. Four meetings of the Management Level Committee were held on 17.06.2013, 29.07.2013, 5.09.2013 and 21.11.2013.

Details of the activities implemented during FY 2013-14 are as below:

1. **Providing solar lanterns including cooking stoves in one of the backward districts identified by the Planning Commission**

➤ **Concept:** The project was envisaged to improve quality of life in rural areas by providing clean and affordable lighting and improved cooking solutions.

➤ **Target Area:** The scheme was implemented in the rural areas of Ri Bhoi District, Meghalaya. Ri-bhoi is one of the districts identified by the Planning Commission.



➤ **Executing Agency:** The scheme was executed through M/s The Energy and Resource Institute (TERI).

➤ **Implementation:** 10 numbers of villages with intermittent/ no supply of electricity where the significant percentage of households use kerosene were identified for implementation for this scheme. After identification of the villages, sensitization program was carried out among the villagers about the usage of various solar technologies as an alternative & cleaner option of energy for both lighting and cooking purposes. It focused on meeting the community in the village(s) and to learn about the status of lighting in their households. Based on the interaction with the community members, total 340 households in 10 villages were selected as beneficiaries of individual household based integrated domestic energy systems (IDES). There IDES comprises a forced draft improved cook stove and a solar home lighting system (2 light points of 2W each and a mobile charging point). The system can sustain a daily load of basic household energy



Promoting education through cleaner lighting

needs i.e. light for 5 hours, mobile charging for 2 hours and battery backup for running the fan of the cook stove for 4 hours. IDES was offered to villagers as they preferred individual systems in place of community based Solar charging station model. An expenditure of Rs. 39.33 was incurred on this activity.

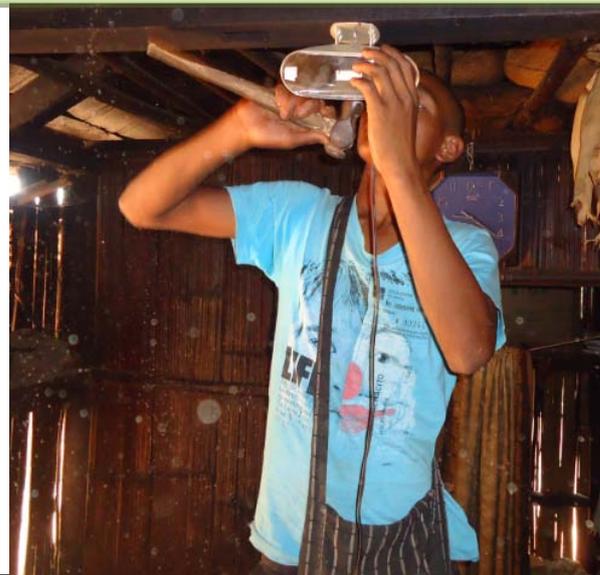


Glimpses from the field

User Sensitization & Training Programs



Installation and Commissioning



Inspection by GM, NERLDC and GM, CP POSOCO



Impact



Education



Livelihood



Improved Cooking

2. Awards in the field related to Power Systems in the premier engineering institutions to encourage excellence in the area

➤ **Concept:** These awards were instituted to encourage excellence in the area of Power Systems by awarding the new research in the related fields.

➤ **Target Area:** Students of Doctoral and Master category from reputed technical



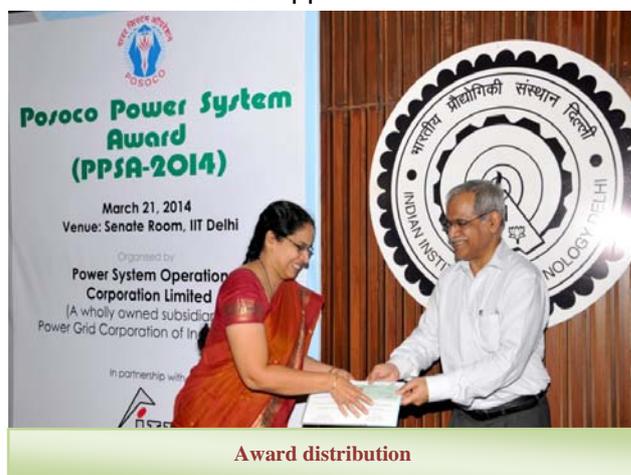
institutions like IITs, NITs and IISCs. For doctoral category, candidates studying in the 3rd year of the program or those submitted thesis or awarded degrees in 2013 were eligible. In case of Master category, the applicants who had received their M.Tech degree in 2013 were eligible.

➤ **Executing Agency:** POSOCO teamed up with M/s Foundation for Innovation and Technology Transfer (FITT), which is a unit of Indian Institute of Technology (IIT), Delhi for execution of this scheme.

➤ **Implementation:** Two categories of the awards were envisaged under this program - the Doctoral category, PhD (25 awards) and Master category, M.Tech (25 awards). The prize money under each category was Rs. 60,000/- and Rs. 30,000/- respectively. Towards planning the modalities of this award program, members from POSOCO, IIT Delhi and FITT were involved. Applications were invited through wide publicity via website of FITT, RLDCs, POSOCO and emails etc. In response to the call for award, 100 applications were received - 58 applications for the Ph.D. award and 42 applications for the M.Tech.



Award distribution



Award distribution

award. For evaluating and short listing the applicants for the award, a seven member expert committee was constituted which included members from industry and academia as below.

- By seven member expert committee
- Prof Bhim Singh, IIT Delhi
- Prof KR Naizi, MNIT Jaipur
- Prof SC Srivastava, IIT Kanpur
- Prof Mini Thomas, Jamia Millia Islamia, New Delhi

- Shri MM Babunaryan, CTA, PRDC, Bangalore
- Prof S Mukhopadhyay, CPES (Retd.), Member IEEE IAS Executive Board(2014-15)
- Shri R.K.Bansal, GM, POSOCO

The results of the shortlisted candidates were declared on the FITT Website. The top 10 candidates in doctoral category and top 11 candidates in Master category were felicitated in an award ceremony organised at IIT, Delhi and presented with award money and certificate. An expenditure of Rs. 30Lakh was incurred on this activity.

3. Procurement of Renewable Energy Certificates

650 nos. of RECs (Non-Solar) worth ₹ 10.04 Lakhs were purchased on 30.10.2013.



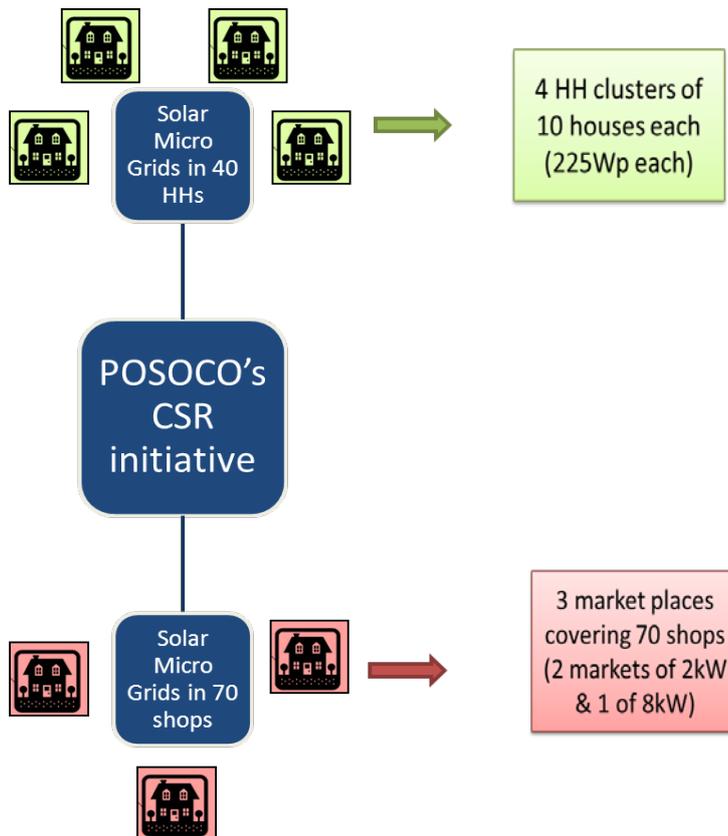
<u>RE Certificate for Buyer</u>	
Number C-IEX_NS002607	Issued On -30-Oct-2013
Serial No.- IEX_0000650	
POSOCO	650 Certificates
	REC Type- NON-SOLAR
This certifies that POSOCO is the holder of 650 NON-SOLAR non transferable certificates, for the period of 2013-14, bought on 30 October,2013, through Indian Energy Exchange Ltd.	
This certificate represented hereby is issued and shall be held subject to all the provisions of the regulations and the By-laws of Honorable CERC and Indian Energy Exchange Ltd and any amendments thereto.	
WITNESS the signatures of its duly authorized officers this 30 October,2013.	
[Name and Designation of Authorized Signatory]	
Akhilesh Awasthy Director Market Operations Indian Energy Exchange Ltd	
[Computerized Generated Report, Signature is not required]	

4. Providing Solar multi utility (SMU) system at two sites in selected regions of Sunderbans of West Bengal.

- **Concept:** This initiative was aimed at providing environmentally benign technology by providing solar based lighting solution.
- **Executing Agency:** M/s The Energy and Resource Institute (TERI).
- **Target Area:** The scheme was executed in three villages named Binodpur in Moipith Baikuntpur Gram Panchayat in Kultoli Block, Gobindopur Abad in Brojoballabhpur Gram Panchayat in Patharpratima Block and Indrapur in G-Plot Gram Panchayat in Patharpratima Block in Sunderbans. These villages were selected jointly by TERI in association with M/s MLINDA in consultation with POSOCO.

SOUTH 24 PARGANAS C D BLOCK/TEHSIL MAP		Name of State	West Bengal	West Bengal	West Bengal
	Name of District	South 24 Pargans	South 24 Pargans	South 24 Pargans	South 24 Pargans
	Name of block	Pathar-pratima	Pathar-pratima	Kultoli	
	Name of Gram Panchayat	Brojoball abh-pur	G-Plot	Maipith Baikuntopur	
	Name of village	Gobindopur Abad	Indrapur	Binodpur	

➤ **Implementation:** Solar Micro Grids consisting of photovoltaic power plants (Total 13KW System) and power lines from plant to the Households/ Shops were installed under this program. Four household clusters of ten houses each have been provided with 900 Wp (225 WpX4) capacity system. Three market places covering 70 shops in total have been provided with 12 KW System (2KW+2KW+8KW).





8kW plant and inverter & battery bank at Netaji Bazar

➤ After the installation of the system, training and awareness exercise was also carried out at all three sites encompassing the end users and the local entrepreneurs making them aware about the benefits of the project and its operation and maintenance of the system.



- The Solar Micro Grids installed under this project were inaugurated in the Brojoballabhpur village in 25th March 2014. Total expenditure incurred on this activity was Rs. 42.79 Lakh

Impact



Home Lighting and Charging Point



Lighting at Market

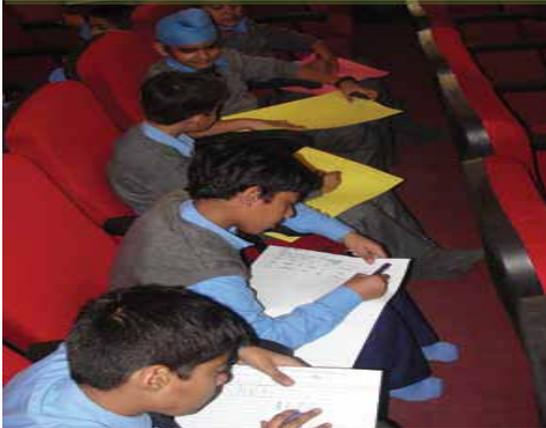
➤ Sustainability:

- ❖ 4 household clusters have been covered: 40 HHs (Total 900W)
- ❖ Each cluster consists of a Joint Liability Group (JLG)
- ❖ JLG linked to bank for loan for the 225Wp system
- ❖ Members pay a fixed tariff of Rs. 180/ month to bank for 5 years for repayment and battery replacement

5. Awareness programs and capacity building for school children on energy efficiency, environment friendly technologies and non-conventional energy sources- Project entitled 'E for Energy Efficiency'

- **Concept:** The project aimed to address the important issue of energy efficiency by sensitizing school students on the optimum utilization of depleting energy resources, and encouraging them to actively participate in efforts to conserve energy.
- **Target Area:** A child-friendly and activity-oriented project reached out to students in the age group of 8 to 12 (classes IV – VII). The project covered 7 schools each from Delhi, Mumbai and Bangalore.
- **Executing Agency:** This scheme was executed through M/s TERI.
- **Implementation:** Students were made aware of importance of energy saving through various activities like Knowledge Workshops in Schools, Intra-school Competitions like Story Writing Competition, painting, Comic strip making etc.

“E for Energy Efficiency”-Events for Students



Story writing Competition in New



Quiz Competition in Mumbai



T shirt painting Competition at New Delhi



Painting Competition in Bangalore

➤ Capacity building of teachers was also done through various workshops. Exposure Visits to energy efficient buildings were organized under the project to familiarize the students with green buildings and also give them a first-hand experience on energy conservation and efficiency. An Energy Torchbearers Programme was also



Capacity Building of Teachers - Gamification workshop in New Delhi



Exposure visit to Energy Efficient Buildings - TERI Office, Bangalore

organized for the students. Two students from each school were selected through a competition and identified criteria. They were assigned different tasks that they were expected to carry out over a time period. The tasks included their involvement in energy audits, steps to empower fellow students to lead real change in terms of energy conservation. The energy

torchbearers were awarded with an opportunity to participate in an outstation exposure trip to Shivansamudra Hydro Power Plant, near Bangalore in Karnataka.

- Total 3921 students and 113 teachers were sensitized under this program.
- Project was completed on 28th February 2014
- An expenditure of Rs. 33.70 Lakh was incurred under this program.

6. Scholarships to meritorious students in Govt. Schools.

➤ **Concept:** This scheme was instituted to recognise academic excellence of students studying in Govt. Schools and encourage them to continue their studies at higher level by providing them scholarships so as to reduce financial burden on their parents.

➤ **Target Area:** This scheme covered students who passed their Xth Standard Examination conducted by CBSE from Govt. Schools in Delhi in the year 2013 and were continuing their studies in Class XI in the Delhi government schools. Students scoring CGPA Score of 9.4 and above were selected.

➤ **Executing Agency:** Central Board of Irrigation and Power (CBIP)

➤ **Implementation:** Complete data of the students who have passed their class 10th exam in the year 2013 was obtained from CBSE. From the list, 1146 nos. of students who scored CGPA of 9.4 and above were shortlisted. The concerned schools were asked to forward the authenticated details of the students eligible under this scheme. By the final date, the authenticated data of 832 students was received. A selection committee comprising



Award distribution by Sh. S.P.Rana, JS & CVO, CBSE

three members, one member each from POSOCO, NPTI and CBIP recommended the award of scholarship to 815 students. The scholarship amount per student was kept at ₹ 9,000/-. An award function was also organised, wherein scholarship cheques to sample population of students were distributed by Shri S.P.Rana, Joint Secretary and CVO CBSE. The remaining cheques were forwarded to the principals of the each school for disbursement to the concerned students. 61% of total scholarships were given to girl students. ₹ 80.76 Lakh were incurred on this activity. This activity was completed by 31st March 2014

7. Organisation of Seminars/Workshops/Training Sessions to sensitise the employees regarding the CSR and Sustainability policies of the organisation, and the need to adopt ethical business practices.

The training programs have been conducted at all the RLDCs. Participation of maximum employees was ensured in the workshops including presence of the NLDC/RLDC/ Dept Heads. This activity has been completed in March'14.

Total approved allocated budget under CSR & Sustainability was ₹ 2.44 Crore. The expenditure of Rs. 2.39 Crore has been incurred during FY 2013-14.
