






## Status of National Campaign on Energy Conservation 2006


**Month: August 2006** (status as on October 6, 2006)

**Industrial Sector (Private and PSUs):**


Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary of the activity	Remarks / follow up
1	Announcement of National Energy Conservation Awards 2006 Scheme for Industries by Bureau of Energy Efficiency, New Delhi.	Completed	The National Energy Conservation Award Scheme - 2006 was announced on 18th August 2006. This year Ministry of Power has propounded 6 categories – Small scale industries, Large/Medium scale industries, Office buildings, Hotels and Hospitals, Shopping Mall Buildings & Zonal Railways under the scheme.	
2	Awareness program on Technical modifications towards Energy Conservation to all shop floor employees - organized by Prefetti Van Melle India Pvt. Ltd, Tamil Nadu	Completed	<p>Awareness programme on Technical Modification towards energy conservation to shop floor employees was conducted on 28.8.06.</p> <p>The following topics were covered :</p> <ul style="list-style-type: none"> <li>▪ Working principle of Heat pump</li> <li>▪ Working principle of waste heat Vapour absorption machine and savings.</li> <li>▪ Need for Energy conservation,</li> <li>▪ Usage of alternate fuel like wood fire boiler.</li> <li>▪ Simple energy conservation tips.</li> <li>▪ Environmental issues like green house gas/global warming etc.</li> <li>▪ Non conventional energy.</li> </ul>	 

3	New Energy Management Techniques/Technology workshop for facility and plant engineers in the factory - organized by Excel Inds. Ltd.- Roha, Maharashtra.	Completed	<p>This activity has been postponed for the next month and in its place a new activity i.e., a "Workshop on Efficient Generation &amp; Utilization of Steam" for Boiler operators was conducted on 18<sup>th</sup> and 19<sup>th</sup> of August'06. Two Energy Auditors delivered lectures on the following topics:</p> <p>A) Efficient Generation :</p> <ul style="list-style-type: none"> <li>• What is boiler efficiency</li> <li>• How it is measured and monitored</li> <li>• Why efficiency should be improved</li> <li>• Daily operational efficiency tips to measure and monitor.</li> </ul> <p>B) Efficient Utilization of Steam :</p> <ul style="list-style-type: none"> <li>• What is transmission of steam.</li> <li>• Losses occurred during transmission.</li> <li>• Corrective steps to avoid losses.</li> <li>• Selection of proper trap headers &amp; equipments.</li> <li>• Improvement in condensate recovery</li> </ul> <p>Subsequent to the above program the following activities were taken up:</p> <ul style="list-style-type: none"> <li>▪ To monitor &amp; achieve the steam to F.O. ratio per liter of F.O. &amp; F&amp;A feed water temperature 80°C.</li> <li>▪ To audit steam traps &amp; present condensate recovery system, design condensate recovery system for 80% condensate recovery against present 40% recovery.</li> </ul> <p>As a step to Energy Conservation, for the last 20 days our boiler department had maintained steam to F.O. ratio at 13.7 Kg of steam/lit F.O. &amp; a scheme for condensate recovery amounting to Rs. 12 lakhs was approved by the Management.</p>	
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4	Employees Training programme - organized by Indian Rayon – Hooghly, W.B.	Completed	<p>Training was given to boiler operators and personnel from maintenance department. The deliberations revolved around the following topics:</p> <ul style="list-style-type: none"> <li>• Don't waste hot condensate from steam - using processes.</li> <li>• Leaving drain valves open is just one way of pouring money down the drain.</li> <li>• Proper condensate recovery saves 10 percent of fuel, reduces water usage and decreases feed water treatment bills.</li> </ul> <p>29 persons attended the program.</p>	
5	Organization of competition for employees on Energy conservation – Thyssenkrupp Electrical Steel (I) P Ltd.- Nashik, Maharashtra	Completed	<p>An ENCON competition was organized inviting Posters, Suggestions and organizing a quiz on 30.8.06. Objective questions were selected from Energy Manager &amp; Auditor examination syllabus and plant related topics. 9 employees were short listed for final round. And 3 winners were declared from these short listed employees. In total 31 employees participated in the event.</p>	 

6	Monthly Energy review with cutting operator by Goodyear India Ltd. – Ballabgarh, Faridabad, Haryana	Completed	<p>A communication with extruder operators on energy conservation was held during the month of August -06. The following points were discussed:</p> <ol style="list-style-type: none"> <li>1. The Extruder Operators were informed about the present energy scenario of India and world.</li> <li>2. The effect of inflation of fuel prices on our conversion cost were discussed briefly</li> <li>3. The deteriorating power situation and high cost of DG running was communicated to them.</li> <li>4. The Extruder operators were informed about the energy consumption by the Extruder Unit.</li> <li>5. Specific areas of improvements were discussed with the Operators namely operation of TCU, operation of blowers, and importance of waste reduction.</li> <li>6. Not open bypass of steam trap, which results in less condensate recovery.</li> <li>7. Clean from time to time Heat exchangers for getting better efficiency &amp; reducing heat losses.</li> <li>8. They were also explained that by using their expertise and experience they can reduce the waste generation considerably and avoid re-work.</li> </ol>	
7	Energy Management & Audit program for Executive, Energy awareness Program for Non-Executives, Training program on upkeep of Gas & Utilities Pipe lines, Waste Management Program for Executives, Review of Energy Performance Designated Energy Manager/ CMD - organized by Rashtriya Ispat Nigam Ltd. – Vishakhapatnam Steel Plant, Visakhapatnam, (A.P.)	Completed	<p>The following activities were organized :</p> <ol style="list-style-type: none"> <li>1) Awareness program on Energy to Non-Executives: This one day training program was organized on 2<sup>nd</sup> august 2006 at T&amp; DC through in-house faculty from Energy Management Department for 18 non-executives from major production departments. The topics as given below were designed to facilitate employees to improve their knowledge &amp; skill in the field of “Energy Conservation”.</li> </ol> <ul style="list-style-type: none"> <li>• Energy Scenario of both National &amp; International Steel Industries.</li> </ul>	

			<ul style="list-style-type: none"> <li>• An overview of energy conservation provisions/practices in Indian Steel Industry vis a vis in developed countries.</li> <li>• The importance of fuel economy / tips on how to achieve fuel economy in various steel making processes of VSP.</li> <li>• Conservation of electrical energy in VSP.</li> <li>• Conservation of utilities in VSP.</li> </ul> <p>2) Waste Management program to Executives:</p> <p>This program was conducted on 5<sup>th</sup> August for 23 executives at T&amp; DC centre with a view to minimize waste generation at the work area and to maximize utilization of metallurgical and other wastes which are generated in course of steel making processes. In-house faculty from Environment Management, Energy Management, Water Management and Lube &amp; Hydraulic departments took the sessions. At the end of the program group discussions were held on how to minimize /recycle/reuse the various kinds of waste.</p> <p>3) Energy Management and Audit Program From 9<sup>th</sup> august to 10<sup>th</sup> August 2006.</p> <p>This 2 days training program was organized exclusively for 19 Executives at the T &amp; DC centre through in-house faculty from Energy Management department. The program included topics on Principles of Energy Management and its importance as listed below:</p> <ul style="list-style-type: none"> <li>• Fuels management and optimization of fuel consumption in various processes of steel making.</li> <li>• Energy Audit and its importance.</li> <li>• Energy conservation facilities and practices in VSP.</li> <li>• Conservation of Electrical Energy.</li> <li>• Conservation of utilities (Compressed air, Process steam, Nitrogen, Oxygen, Argon, Chilled</li> </ul>	
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			<p>water and DM water etc.)</p> <p>At the end of the program potential areas for improvement were identified for implementation by the executives in their respective areas of working.</p> <p>4) Energy Awareness program on upkeep of gas &amp; utilities pipe lines:</p> <p>This one day program was organized on 23<sup>rd</sup> August through in-house faculty from energy Management department for 25 Non- Executives from major production shops. The topics as given below were designed to facilitate the employees to improve their knowledge and skill on safety and operation and maintenance of gas &amp; utilities pipelines so as to ensure trouble free operation.</p> <ul style="list-style-type: none"> <li>▪ The importance of "Gas safety".</li> <li>▪ Practice of pressurization /de-pressurization of gas and utility pipelines.</li> <li>▪ Maintenance of Gas &amp; utilities pipelines.</li> </ul>	
8	<p>In house awareness programme on Energy conservation - organized by GlaxoSmithKline Pharmaceuticals Ltd.- Pokhran Road, Thane (W)</p> <p>Suggestion Scheme – Suggestions from are invited under suggestion scheme, which cover Energy Conservation also – organized by Indian Farmers Fertilisers Cooperative Limited, Allahabad (U.P)</p>	Completed	<p>This activity has been changed and instead the changed activity was conducted by Indian farmers fertilizers cooperative limited, Allahabad (U.P.)</p> <p>Two presentations were conducted on 18.8.06 &amp; 25.8.06 on Energy saving methods/processes. They are as follows:</p> <p><b>1) Study of Methane Slip and its impact on energy and production level in Ammonia-2.</b></p> <p>The primary reformer for ammonia-2 had encountered tube failure. Due to this, the endothermic reaction was not giving the desired yield and methane slip was 0.92% in place of recommended 0.30%. Thus, there was 13.41 MT/day loss of ammonia. Modeling and Simulation study was carried out for the reformer and results validated with running process parameters. The optimum value of different process variables was determined to reduce the methane slip.</p>	

## 2) Excitation Systems for Synchronous Generator- a reliability concern.

Three excitation systems as outlined below were studied :

- D.C. excitation system [ being used at TG-1 at IFFCO, Phulpur]
- Static excitation system [ to be installed on TG-1 at IFFCO, Phulpur in near future]
- Brushless excitation system [ being used at TG-2 at IFFCO, Phulpur]

A comparison was made among all the 3 methods of excitation regarding their advantages & disadvantages; Mechanical & Electrical aspects; reliability; Maintenance requirements.

### **Suggestion Scheme:**


Suggestions are invited from employees on different areas, they are evaluated by a committee & the once deserving implementation are awarded on the eve of Republic day & Independence day celebrations every year.

During the period January to July 2006, 43 suggestions were received, out of which 30 were awarded. Some suggestions based on energy saving are mentioned below:


- 1) Suggestion for incorporating synchronizing scheme in main PMCC, CT, PMCC and Naptha PMCC of Ammonia-2 Plant by Sr. Engineer (Elect.)
- 2) Modification of Electrical Circuit & feeder panel of Turbo feed pump no.1 in power plant by Asstt. Foreman (Elect.)



9	<p>Creating awareness among truck drivers on conservation of petroleum products by providing write up on conservation of petroleum products in various local languages - organized by Hindalco Inds. Ltd., Sambalpur, Orissa.</p> <p>Awareness Campaign through cable network for optimized &amp; efficient use of power - Organized by Indian Oil Corporation Ltd., Panipat Refinery (Haryana).</p>	Completed	<p>This activity has been changed and instead the changed activity was conducted by Indian Oil Corporation Ltd., Panipat Refinery (Haryana).</p> <p>Display of caption was done on the cable network of the Panipat Refinery township from 25th to 30th Aug'06 to inculcate the awareness amongst the residents of Panipat Refinery Township. The caption displayed on the cable is as under :</p> <p>Switch off Electrical appliances viz. Lights, AC, Fans, Geysers, Computers, TV when you leave office or home or when not required - Optimised and efficient use of power will help in Energy conservation</p> <p>All the residents of township are advised that they should minimize the use of high capacity electrical appliances like air conditioners /cooking heaters to avoid any overloading of circuits and subsequent power breakdowns and even fire.</p>	
10	<p>Awareness classes on "Energy Conservation Potential in steam System" for employees - organized by Hindustan Newsprint Ltd., Kerala.</p> <p>Activities undertaken to improve energy efficiency – Manikgarh Cement, Chandrapur, Maharashtra.</p>	Completed	<p>This activity was changed and instead the changed activity was carried out by Manikgarh cement, Chandrapur, Maharashtra.</p> <p>Some major renovation works in kiln and preheater were carried out to augment clinker production and to improve Energy efficiency. A list of jobs carried out during shutdown period are furnished below.</p> <ul style="list-style-type: none"> <li>• Modification of all cyclones &amp; calciner of Pre-heater as per supply and design of M/S LNV.</li> <li>• Renovation of refractory lining for calciner, all cyclones &amp; riser ducts as per M/S LNV design.</li> <li>• Modification &amp; reorientation of TA duct at PH &amp; Kiln outlet as per M/S LNV design.</li> <li>• Installation of DCS for Raw mills and coal mill</li> <li>• and hooking up to existing Kiln DCS.</li> </ul>	

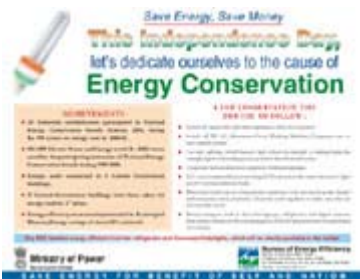
			<ul style="list-style-type: none"> <li>Installed flow control device supplied by energy Logistics Pvt. Ltd. for compressors in packing plant. Around 20 KWh savings achieved. Planning to install for other compressors also.</li> </ul>	
11	<p>Poster competition on Energy Conservation among employees - organized by Central India Polyesters Ltd. Mouda, Nagpur.</p> <p>Awareness program on electrical systems and controls ---Ballarpur Industries, Chandrapur, Maharashtra.</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Ballarpur industries, Chandrapur, Maharashtra.</p> <p>An interactive seminar on electrical systems and controls was conducted. 21 participants from various sections attended the program .Emphasis was laid on efficient utilization of electrical power.</p>	
12	<p>Energy Awareness Program in Coke Ovens &amp; Coal Chemical Department -organized by Bhilai Steel Plant</p> <p>In house training program for employees on Energy conservation – Thyssenkrupp Electrical Steel (I) P Ltd.- Nashik, Maharashtra.</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out Thyssenkrupp Electrical Steel (I) P Ltd.- Nashik</p> <p>Energy Conservation training program of 3 hours duration was provided to the employees i.e. staff and workmen highlighting importance of ENCON activities on 18.8.06. The training was given in local languages i.e. Marathi and Hindi apart from in English. A power point presentation was made and a total of 30 employees participated.</p>	
13	<p>Finalization of Action Plan based on Shell Benchmarking Report for Indian refineries among Global Peers for the year 2004-05 – organized by Mangalore Refinery and Petrochemicals, Mangalore, Karnataka.</p>	Completed	<p>Gaps were identified based on shell benchmarking study and an action plan was prepared for the same. The potential areas of achievement were identified as HCU, CDU, Cogen plant and HC loss. Some achievements of the short term plans are as follows:</p> <ul style="list-style-type: none"> <li>In HCU unit, heat recovery from bottoms for feed preheat was completed in Feb'05 and the savings are 0.04 M\$/yr.</li> <li>Heat recovery from product Diesel for feed preheat in the HCU unit was completed in Dec'05 the savings achieved are 0.2 M\$/yr.</li> <li>Higher capacity utilization resulting in lower energy consumption for the HCU unit resulted in</li> </ul>	

			<p>savings of 1.56 M\$/yr.</p> <ul style="list-style-type: none"> <li>• In the CDU unit higher capacity utilization resulted in savings of 3.3 M\$/yr.</li> <li>• In the Cogen plant, reduction in power consumption through VFD,s has been implemented for 119LV drives and 3 MV drives. Electrical power saving achieved is approximately 2.7MWHr.</li> <li>• Double seals for new floating roof tanks was added for MS tanks resulting in savings of 0.21M\$/yr.</li> <li>• Provision of portable skimmers for reduction in evaporation loss from WWTP systems resulted in saving of 1.1 M\$/yr.</li> <li>• Improved PSA recovery by new adsorbent in H2 Unit saves 2.0 M\$/yr.</li> </ul>	
14	Three sessions of training programme on Energy Conservation to employees - organized by Seshasayee Paper and Boards Ltd., Namakkal, Erodo, Tamilnadu.	Completed	A training program session was organized on 4.8.06 for the employees. 18 persons attended the program and the Asst. Manager from the Boiler division deliberated on various aspects of energy conservation.	
15	In-house workshop on Energy Conservation - organized by Kesoram Rayon – Hooghly West Bengal.	Completed	In- house workshop on Energy Conservation was held on 25.8.06. From Production and Maintenance deptt. , 20 persons attended the program. It was organized by one energy consultant from P.C.R.A.	
16	Two days workshop on Waste minimization and Resource conservation - organized by Industrial Organics Ltd., Ludhiana, Punjab.  To check waste air leakage in the m/c and control the unwanted air because 1 cfm equal to 0.17 kw - organized by Rajasthan Spinning & Weaving Limited, Udaipur (Rajasthan)	Completed	<p>This activity was changed and the changed activity was carried out by Rajasthan Spinning &amp; Weaving Limited, Udaipur (Rajasthan)</p> <p>Wastage air in total 7 nos. of Autoconer machines was measured by connecting CFM meter. Checking of wastage air in idle &amp; running condition was carried out and then wastage air points were attended by the maintenance deptt. Totally 237 kWh unit / day of consumption has been reduced by rectifying these air points.</p>	

17	<p>Two day seminar on energy saving for all Electrical Engineers/ Supervisors of various units - - - - organized by Wolkem India Ltd.-Sirohi Road, Rajasthan</p> <p>To take temperature on all DB's panel, LT panel &amp; main motor to avoid unwanted energy loss due to looseness and bearing failure in motor - organized by Rajasthan Spinning &amp; Weaving Limited, Udaipur (Rajasthan)</p>	Completed.	<p>This activity has been changed and instead the changed activity was carried out by Rajasthan Spinning &amp; Weaving Limited, Udaipur (Rajasthan)</p> <p>Temperature was measured using ultrasonic Laser temperature Gun for various electrical equipments i.e. Main LT panel, Bus coupler, Power distribution panel &amp; Main motors of the machines. In Mill No.1 on Murata Autoconer, main motor temperature was at 90 degrees centrigate which was well above recommended temperature, thus, it was replaced with a spare motor. Such activities put a check on avoiding unwanted energy loss as well as major break-down.</p>	
18	<p>Energy Conservation seminar for Administration department - organized by Trident-Abhishek Inds. Ltd, Barnala, Punjab</p> <p>Load factor study of individual M/cs - organized by Rajasthan Spinning &amp; Weaving Limited, Udaipur (Rajasthan)</p>	Completed	<p>This activity has been changed and instead the changed activity has been performed by Rajasthan Spinning &amp; Weaving Limited, Udaipur (Rajasthan)</p> <p>Load factor study conducted for total 87 nos. of machines and the errors found were rectified so as to save energy.</p>	
19	<p>Energy audit of electrical systems - organized by ITC Limited, Sardar Patel Road, Secunderabad.</p> <p>Employees training program – Gujarat Narmada Valley Fertilizers Company, Bharuch, Gujarat.</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Gujarat Narmada Valley Fertilizers Company, Bharuch, Gujarat.</p> <p>A training session to create awareness about energy efficiency and its conservation was organized for the employees on 25.8.06. 22 persons attended the session.</p>	

20	Meeting conduct with Energy Cell & discuss the last month of activity - organized by Rajasthan Spinning & Weaving Limited, Udaipur (Rajasthan)	Additional Activity Completed	Energy cell meeting was held on 19.08.2006 & the last month's progress was discussed. Plans for energy saving and the new areas to focus on were highlighted. In this month total saving got 2677 units / day was achieved by the engineering team.	
21	Quiz for employees on Energy Conservation – organised by National fertilizers limited, Vijaipur, Guna, (M. P.)	Additional Activity Completed	A quiz competition for employees was held on 29 <sup>th</sup> August. Around 70 employees participated .The questionnaire was designed to increase awareness of energy related aspects among the employees.	
22	Awareness on plant equipment - organized by Century Pulp and Paper, Nanital (Uttaranchal)	Additional activity Completed	A program for creating awareness on ENCON measures was organized with particular focus on energy saving in plant machines and processes.	
23	To check waste air leakage in the m/c and control the unwanted air because 1 cfm equal to 0.17 kW - organized by Rajasthan Spinning & Weaving Limited, Udaipur (Rajasthan)	Additional Activity Completed	Wastage air in total 7 nos. of Autoconer machines was measured by connecting CFM meter .Checking of wastage air in idle & running condition was carried out and then wastage air points were attended by the maintenance deptt. Totally 237 kWh unit / day of consumption has been reduced by rectifying these air points.	




**Commercial Sector (Private and Government Buildings):**




Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
24	Release of advertisement on Energy Conservation in print media by Bureau of Energy Efficiency, New Delhi.	Completed	<p>An advertisement was released in leading newspapers regarding Energy Conservation on 15<sup>th</sup> of August. It carried tips on Energy Conservation at home and highlighted the achievements made by Ministry of Power and Bureau of Energy Efficiency.</p> <p>The Achievements are as follows:</p> <ul style="list-style-type: none"> <li>• 311 Industrial establishments participated in National Energy Conservation Award Scheme-2005; Saving Rs. 989 crores on energy cost in 2004-05.</li> <li>• 856 MW electric power and Energy worth Rs. 4000crores saved by participating industries of National Energy Conservation Awards during 1999-2006</li> <li>• Energy Audit conducted in 8 Central Government Buildings.</li> <li>• 17 Central Government buildings have been taken up for energy audit in 2<sup>nd</sup> phase.</li> <li>• Energy efficiency measures implemented in Rashtrapati Bhawan; energy savings of about 30% achieved.</li> </ul> <p>The advertisement also requested the consumers to buy BEE labeled Energy efficient frost free refrigerators and tube lights which would shortly be available in the market.</p>	 <p>The advertisement features the slogan "Save Energy, Save Money" and "let's dedicate ourselves to the cause of Energy Conservation". It includes a list of "SOME TIPS TO SAVE ENERGY" and "4 THINGS YOU CAN DO FOR THE WORLD". Logos for the Ministry of Power and Bureau of Energy Efficiency are visible at the bottom.</p>




25	Announcement of National Energy Conservation Awards 2006 Scheme for Government and Commercial buildings - organized by Bureau of Energy Efficiency, New Delhi.	Backlog of previous month completed.	The award Scheme was announced on 18 <sup>th</sup> August 2006 in leading newspapers and on BEE's website. This year the buildings have been divided in 3 categories of office buildings, hotels and hospitals and shopping malls. Consumption of 200kW or more is one of the eligibility criteria of qualification for buildings like offices, hotels, hospitals & shopping malls.	
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### Domestic Sector

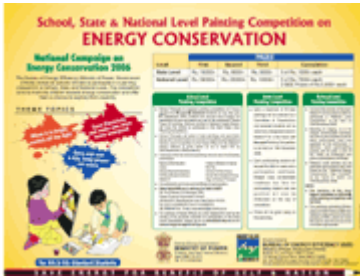
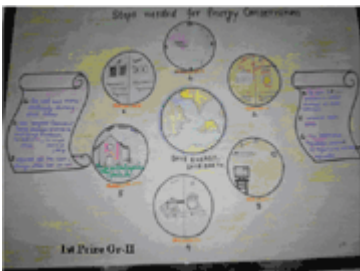

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
26	<p>Painting competition by Employee children - organized by Ballarpur Inds. Ltd- Ballarpur unit, Chandrapur.</p> <p>"Requirement of energy saving for benefits of self, society &amp; nation" for township and school - organized by Gujarat Ambuja Cements Ltd, Unit Rabriyawas, Jaltaran (Rajasthan)</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Gujarat Ambuja Cements Ltd, Unit Rabriyawas, Jaltaran (Rajasthan)</p> <p>Awareness program on "<b>Requirement of energy saving for benefits of self, society and nation</b>" for Ambuja township members &amp; school children (VIII &amp; IX standard) was organized on 18.08.06 in association with Energy Cell of GACL. Summary of all the activities are as follow:</p> <p>Our Energy Cell representative explained benefits of energy. They give tips for energy saving and also showed the small film "Bijali" on Energy Saving.</p>	



27	<p>Awareness program on Energy Conservation to Periyar Nagar residence - organized by Perfetti Van Melle India P Ltd. – Tamilnadu.</p> <p>To distribute pamphlets among villagers tips for “How to save power in their houses” - organized by Jayshree Chemicals Limited, Ganjam (Orissa)</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Jayshree Chemicals Limited, Ganjam (Orissa)</p> <p>Pamphlets were distributed among villagers on 15<sup>th</sup> August 2006 to create awareness about the energy consumption level of various electrical appliances. This would enable them procure the less power consuming appliance and thus save energy.</p>	
28	<p>Awareness Programme of Household Energy Conservation in colony for ladies - Kesoram Rayon – Hooghly, West Bengal.</p>	Completed	<p>Awareness program on household Energy Conservation was organized on 28.08.06 in which 40 ladies from the colony participated. Energy Consultant from PCRA delivered a speech on the role of energy and the necessity to preserve it. A quiz session on energy was also organized to spread the message of energy conservation.</p>	
29	<p>Different Energy Conservation Awareness Program for nearby community - organized by Tata Chemicals Ltd. Homi Mody Road, Mumbai</p> <p>One Day training program for workmen (technical) on Energy Conservation in Pumps &amp; Fans -- organized by Hindustan Paper Corporation Limited, Nagaon Paper Mill , Kagajnar, Assam.</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Hindustan Paper Corporation Limited, Nagaon Paper Mill, Kagajnar, Assam.</p> <p>A training session on energy conservation in pumps &amp; fans &amp; environmental management system was conducted on 11-8-06. The program covered the details of energy consumption in plant &amp; township, energy cost, energy conservation projects for last three years and the savings achieved. 13 persons participated in the program.</p>	


30	<p>Use of solar energy for street lighting, preheating, boiler feed water &amp; Bathroom water heating implemented by Gharda Chemicals Ltd. Dombivli, Thane, Maharashtra.</p> <p>Awareness program on Energy Conservation to school children of Ukkunagaram - organized by Rashtriya Ispat Nigam Ltd. – Vishakhapatnan Steel Plant, Visakhapatnam, (A.P.)</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Rashtriya Ispat Nigam Ltd. – Vishakhapatnan Steel Plant, Visakhapatnam.</p> <p>Awareness program on Energy Conservation was organized on 29<sup>th</sup> August for 34 school children from Kendriya Vidyalaya and on 30<sup>th</sup> august for 38 school children from Depaul school of Ukkunagaram. Several topics such as energy scenario of both India and the world, renewable and non-renewable, conservation of energy in lighting systems, Air conditioning, Ceiling fans and cooking gas were covered in a power point presentation.</p> <p>The responsibility of society in general as well as that of school children in particular was highlighted by both VSP and school faculty. Quiz competition on energy and environmental awareness was conducted in order to instill energy conservation ideas into the minds of children which will go a long way in conservation of energy. Plant visit was also organized in which the students were explained about steel making process in detail. The program was well appreciated by the management of the school of Ukkunagaram.</p>	  
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31	<p>Solar Water Heater – organized by Nandini Milk Products, Dr M.H. Marigowda Road, Bangalore, Karnataka.</p> <p>Organize “Energy Conservation Week” for all stakeholders organized by Hindalco Industries Limited, Renukoot (U.P.)</p>	<p>Backlog of June month completed</p>	<p>This activity has been changed and instead the changed activity was carried out by Hindalco Industries Limited, Renukoot (U.P.)</p> <p>In the “Energy Conservation Week”, officers from the Rural Department visited nearby villages and demonstrated energy saving Solar lantern among the villagers during the first week of August 2006. The Mahila Mandal President distributed some Solar lanterns to the villagers on this occasion. Altogether 50 solar lantern were distributed on loan basis from Hindalco, Renukoot.</p>	
32	<p>Talk on household waste management &amp; energy savings for residents - organized by National Fertilizers Ltd. Vijapur, Guna, M.P.</p> <p>Awareness campaign (2 hours Seminar) on Energy Conservation among Super Market Personnel's - organized by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam)</p>	<p>Completed</p>	<p>This activity has been changed and instead the changed activity was carried out by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam)</p> <p>Awareness Campaign on “Energy Conservation and Environmental Management System” for the residents /Shop keepers of Super Market Complex, Kagaj Nagar was conducted covering the details of energy consumption in terms of percentage of maintenance cost, specific electrical energy consumption, details on impact of energy consumption on the environment, greenhouse effect, tips for reduction of power, water and LPG consumption, use of CFL and environment management system. The program was attended by 48 residents/Shop keepers.</p>	 

## Educational Institutions

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
33	Conduct of Painting competition for School children on energy conservation at school level - organized by Bureau of Energy Efficiency, New Delhi.	Completed	<p>The Bureau of Energy Efficiency released an advertisement on 6<sup>th</sup> August 2006 in print and electronic media inviting all Schools of India to participate in a painting competition at School, State and National level. The competition aims to motivate children towards energy conservation and offer them a chance to explore their creativity. The theme topics for this painting competition are as follows:</p> <ul style="list-style-type: none"> <li>• Save Electricity and energize more homes.</li> <li>• Save one unit a day, keep power cut away.</li> <li>• When it is bright, switch off the light.</li> </ul>	
34	<p>Arranging nearby school/ college student factory visit for Energy conservation awareness and energy conservation measures implanted - organized by Thyssenkrupp Electrical Steel (I) P Ltd.- Nashik</p> <p>Painting competition on Energy Conservation – Central India Polysters, Mouda, Nagpur, Maharashtra.</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Central India Polysters, Mouda, Nagpur, Maharashtra.</p> <p>A Painting competition on Energy Conservation was arranged for the children of CIPL colonies on the occasion of week long Ganesh utsav. Children were divided in two groups i.e. class 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>. The Managing Director, CIPL, himself addressed the students and emphasized the need for energy conservation to all the 41 participants in the event. All 10 winners from the two groups were asked to express their views on energy conservation to the packed house audience assembled for <b>Ganesh Utsav</b> programs in the evening. It was a unique experience altogether.</p>	 

35	Energy Conservation Awareness Programme among school children at different schools at Bharuch. Organized by – IPCL Gandhar, Gujarat.	Completed	<p>Energy Conservation Awareness Programme was organized in Shri P J Chheda Janta Vidyalaya in the month of Aug-06. Around 600 children from std 8th to std 12th participated and discussions were held on Energy Conservation &amp; HSE (Health safety and environment). Children participated in the discussion and took a pledge to conserve water, energy &amp; to be safe.</p> <p>Following topics were covered:          Why energy conservation is important?          How energy &amp; environment is related?          How we can contribute in nation building?          How we can save energy?          How to practice safety?</p> <p>A token gift was presented to every one by IPCL-Gandhar.</p>	
36	Energy Conservation – Elocution / Slogan Competition for Vaidheeswara Higher Secondary School, Mettur Dam – organized by Chemplast Sanmar Limited ,Raman Nagar, Tamil Nadu.	Completed	<p>An elocution and slogan competition was held for the children of Vaidheeswara School, Mettur Dam. About 100 children took part in the programme held on 19<sup>th</sup> Aug 2006. Amidst the First Mid Term examination, the children took part in the programme and the teachers also encouraged them. Though the school is located in a rural area, the level of response and the performance of the students was good. A few of the slogans on Energy Conservation are given under</p> <ul style="list-style-type: none"> <li>• Sunlight is the Chief Energy but a Cheap Energy</li> <li>• Coal was in the Earth Yesterday; Coal is in Mines today: Coal will be in the Museum tomorrow.</li> <li>• Less oil today avoids turmoil tomorrow</li> <li>• Use brain power to conserve Power</li> <li>• Save Current, Save Currency</li> <li>• Energy Conserved, Future Preserved</li> <li>• If you save the soil and oil, you will be Royal.</li> </ul> <p>The competition was conducted for the Seniors and Juniors separately and the prizes were distributed for</p>	 

			the top three winners. Principal Mrs. S Jessie distributed the prizes and Mrs. I Jerina Raj gave an elaborate speech on Energy Conservation.	
37	<p>Drawing &amp; oratorical competition for students - organized by The Madras Aluminium Co.Ltd. – Metturdam, Tamilnadu</p> <p>Awareness Campaign (1 hour Seminar) on Energy Conservation among the children (KG – III) of Appala Nursery School, Kagaj Nagar - organized by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam)</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam)</p> <p>The Awareness program organized covered details of the impact of energy use on the environment. Lectures were also given on greenhouse effect, water &amp; LPG consumption, use of CFL and environment management system. Tips for reduction of power were also advocated. The program was attended by 19 students who would carry home the message of save energy.</p>	
38	<p>Quiz competition for school children organized by Ultratech Cement Ltd.-Aditya Birla Group.</p> <p>Awareness Campaign (2 hours Seminar) on Energy Conservation among the children (class – VII &amp; VIII) of Higher Secondary School, Jagiroad - organized by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam).</p>	Completed	<p>This activity has been changed and instead the changed activity was carried out by Hindustan Paper Corporation Limited, Nagaon Paper Mill Kagaj Nagar (Assam)</p> <p>The Campaign activity was organized on 31-08-06 at Jagiroad higher secondary school. 60 students attended the program and benefited by the sessions conducted on tips given to conserve &amp; efficiently utilize home appliances.</p>	