








## Status of National Campaign on Energy Conservation 2005




**Month: February 2005** (status as on May 31, 2005)

### Industrial Sector (Private and PSUs):

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
1.	Task Force meeting followed by workshop on Pulp & Paper Sector for energy consumption norms and sharing of Best Practices – at Saharanpur, (U. P.) by BEE.	Completed	<p>Second Task Force workshop on Pulp &amp; Paper was organised on 18<sup>th</sup> February 2005 at New Delhi, which was attended by 51 members from Pulp &amp; Paper sector. Presentations on draft specific energy consumption norms as prepared for the pulp &amp; paper sector were discussed and deliberated.</p> <p>Presentations on the Best Practices were also made by the five paper mills. These presentations are also uploaded on the websites, <a href="http://www.bee-india.nic.in">www.bee-india.nic.in</a> <a href="http://www.energymanagertraining.com">www.energymanagertraining.com</a></p> <p>Representatives from Hindustan Newsprint Limited, Ballarpur Industries Limited, Unit Ballarpur, Nagaon Paper Mill, J K Paper Mill, and Century Paper Mill made the presentation.</p>	
2.	Training Programme on Implementing Energy Conservation at Mumbai by NPC.	Completed	<p>National Productivity Council RPMG Mumbai has conducted a two-day training programme on “Managing Energy in Industries” at Hotel Orchid, Vile Parle (E), Mumbai..</p> <p>The programme was attended by 23 engineers from different manufacturing, process and service industries. The programme focused on conducting energy audit and identifying energy saving opportunities in thermal and electrical systems. The programme also discussed the salient aspects of EC Act 2001 and the roles and responsibilities of industry for achieving energy efficiency.</p>	


3.	Workshop on Efficient Operation & Maintenance of Boilers at Shimla, Guwahati & Pondicherry by NPC	Completed	NPC organized a workshop on efficient boiler operation and maintenance on 8 <sup>th</sup> February 2005 at Pondicherry which was attended by 35 participants, and on 18 <sup>th</sup> February 2005 at Parwanoo (Himachal Pradesh) which was attended by 32 participants respectively. These workshops aimed at information sharing on efficient operation, maintenance of boilers and safety. The target group were practicing boiler engineers from industry.	
4.	Energy Audit at Vendors Organised by Tata Motors Ltd., Pune.	Completed	The vendors meet was organized by Tata Motors in the month of February 2005. Mr. M. B. Kulkarni, Assistant General Manager addressed the Tata Motors Limited's Vendors as a part of Awareness programme of Energy Efficiency.	
5.	In-house workshop on energy conservation in Aluminum production – Activity Organised by Gharda Chemicals Limited, Lote Parshuram, Maharashtra.	Completed	A workshop on Energy Conservation in Aluminium Production conducted by M/s Gharda Chemicals on 18 <sup>th</sup> February 2005. The programme was attended by 24 Engineers.	
6.	Training programme on energy conservation by PCRA at LG Polymers India Private Limited, Visakhapatnam, Andhra Pradesh.	Postponed	Programme postponed to March 2005.	
7.	In-house programme on Energy Efficient Lighting – Organised by GlaxoSmithKline Pharmaceuticals Ltd., Nasik, Maharashtra.	Completed	A programme was conducted on Energy Conservation, which was attended by 37 students from 7 <sup>th</sup> to 9 <sup>th</sup> class of Sri Gowthami Public School. During the program, practical demonstrations like showing the ammeter readings to all on variation in consumption of energy for ordinary bulb and CFL lamps and ordinary tube lights and electronic ballast tube lights were conducted.	



			<p>Various steps taken in factory towards energy conservation were explained like:</p> <ol style="list-style-type: none"> <li>1. Use of CFL lamps, VFD etc.</li> <li>2. Use of sunlight through FRP sheets in all warehouses instead of electrical lights.</li> <li>3. Energy recovery from Economizer at boiler.</li> <li>4. Reduce, Reuse and Recycling concepts,</li> <li>5. Zero discharge of waste water,</li> <li>6. Bio-composing of process &amp; canteen waste etc.</li> </ol>	
8.	<p>In-house training programme on Principles of Energy Conservation – Organised by Reliance Industries Limited, Refinery Division, Jamnagar.</p>	Completed	<p>A full day training programme was organized at the learning centre of RIL, Jamnagar Refinery Complex on “Principles of Energy Conservation” on 25<sup>th</sup> February 2005. In house faculty viz, Shri H V Lodhia Shri Rajesh Shetty and MS Laxmi Kari of Energy &amp; Loss Cell have conducted this training programme. The training programme consisted of the following topics;</p> <ol style="list-style-type: none"> <li>i. General overview of the energy consumption pattern in the world &amp; in India.</li> <li>ii. Monitoring of fuel &amp; loss in the complex &amp; calculation of unaccounted loss.</li> <li>iii. Flare loss monitoring</li> <li>iv. Captive power plant overview &amp; its operating philosophy</li> <li>v. Monitoring of fired heater efficiency calculation procedure</li> <li>vi. Procedure for Benchmarking of energy – Solomon/ Shell</li> <li>vii. Furnace audit/ steam trap audit/ flare audit procedures</li> <li>viii. Best practices of energy conservation in each equipment</li> <li>ix. Case studies of implemented Encon Schemes. <ol style="list-style-type: none"> <li>i. Main Flare Gas Recovery</li> <li>ii. GT Inlet Air Fogging</li> </ol> </li> </ol>	

			<p>iii. Replacing HP steam by MP Steam in Stripper's in CDU</p> <p>Executives 26 no. from various departments viz. Central Technical Services, Operations, Power and Utilities and Maintenance/ Engineering Services attended this programme.</p>	
9.	In-house Lecture / presentation on Electrical Energy Saving at Plant and Township – Organised by Indian Farmers Fertiliser Cooperative Ltd., Phulpur Unit.	Completed	<p>M/s Petroleum Conservation Research Association made a presentation by a team of 3 experts (Electrical, Thermal, Mechanical) on electrical energy saving &amp; insulation audit, at Delhi on 23<sup>rd</sup> February 2005. The presentation was highly informative and thought provoking and was attended by large number of concerned engineers technicians &amp; managers.</p>	
10.	Seminar for Supervisor (Technical) on Conservation & Natural Resources – Organised by Hindustan Paper Corporation Limited, Kagajnar, Assam.	New Activity Completed	<p>Half day seminar for Supervisor (Technical) on Conservation &amp; Natural Resources was organized on 18<sup>th</sup> February 2005, covering details of energy consumption in terms of percentage of manufacturing cost; specific electrical energy consumption etc. The programme was attended by 11 supervisors of various sections of technical department. The programme was rated as quite beneficial to work &amp; self development.</p>	
11.	Awareness programme for GACL employees – Activity managed by Gujarat Alkalies And Chemicals Limited.	New Activity – Completed	<p>An awareness programme on Energy Conservation for GACL employees was conducted at Vadodara on 23<sup>rd</sup> February 2005.</p>	
12.	Energy Conservation Training Programme for Supervisory and Operative Level - Organised by Tata Motors Ltd., Jamshedpur	New Activity – Completed	<p>Energy Conservation Programme was conducted for Supervisory and Operative level on 17<sup>th</sup> February 2005 in which 22 participants participated.</p>	

13.	In-house training programme for first line managers – Activity organized by The Fertilizers and Chemicals Travancore Ltd., Kochi, Kerala.	New Activity Completed	<p>A One day training on “Energy Conservation” was held on 25<sup>th</sup> Feb 2005 at the training centre, Udyongmandal. 20 nominees including the middle level managerial cadre from plant operation group participated, in the training programme.</p> <p>The potential Energy Conservation in various sectors like Agriculture industry, Transport and Domestic was highlighted. The various steps to achieve energy savings and conservation were explained. A general awareness about the EC Act – 2001 was also presented to the participated.</p>	
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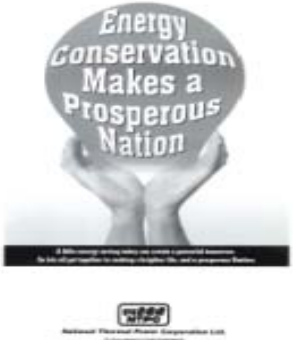


**Commercial Sector (Private and Government Buildings):**

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
1.	Energy performance improvement in existing buildings- Seminar by BEE.	Completed	<p>Activity was rescheduled and instead a Workshop on The Energy Conservation Act, 2001- "Role of the State Designated Agencies" was held on 23<sup>rd</sup> &amp; 24<sup>th</sup> February at New Delhi. The Workshop was inaugurated by Shri R. V. Shahi, Secretary, Ministry of Power. In his inaugural address, Secretary (Power) stressed on the need of stronger cooperation between Ministry of Power, Bureau of Energy Efficiency and State Designated Agencies in the implementation of various provisions of the Energy Conservation Act with respect to Commercial Buildings, Industrial Units and Standard &amp; Labelling Programme of Equipment &amp; Appliances. Shri G. B. Pradhan, Joint Secretary, (Energy Conservation) also addressed the Designated Agencies. The Workshon was attended by 21</p>	


			<p>State Designated Agencies beside officials from other states, who are yet to notify their State Designated Agencies.</p> <p>For more information on the presentations made in the Workshop please <a href="#">Click here</a></p>	
2.	Creating awareness through print media on Tips to save electricity – Activity managed by NTPC.	Completed	<p>NTPC has released specially designed advertisement on energy conservation in the following newspapers/ Magazines/ Souvenir etc.</p> <ol style="list-style-type: none"> <li>1. Vir Arjun, Special supplement on PSUs Feb 2005.</li> <li>2. Samay (Sidhi Distt.), February 2005.</li> <li>3. ZCS (HRD Newsletter), January &amp; February 2005 Issue.</li> <li>4. Kaleidoscope, January Issue.</li> <li>5. Gyanpith Magazine, January &amp; February 2005 Issue.</li> </ol>	
3.	In-house Awareness Programme for all Ambassador Ajanta's Hotel staff activity by Ambassador Ajanta, Aurangabad (Maharashtra).	Completed	<p>The lecture-cum-demonstration was conducted on the Energy Conservation for Engineering and the Housekeeping staff of the hotel. The lecture included various initiatives that have been started by the hotel in conservation of Power, water in Guest related areas. This was followed by a visit to the Plant Room and on the floors to audit the actual situation prevailing.</p> <p>The Lecture was conducted by the source person Chief Engineer Mr. Mahendra Pargaonkar.</p>	

4.	Requesting commercial building owners to declare their energy management policies – Activity coordinated by BEE.	Completed	<p>The following commercial building owners have declared their Energy Management Policy on the request of Bureau of Energy Efficiency.</p> <p>Taj Hotels Resorts and Palaces Taj Garden Retreat Gateway Hotel Inder Residency For details click <a href="#">here</a></p>	
5.	In-house programme on importance of fuel and its conservation – Organised by Taj Lands End Limited, Mumbai.	Completed	<p>A program was carried out on importance of fuel and its conservation along with an Environment Meeting in which following ideas were discussed:</p> <ol style="list-style-type: none"> <li>1) Connect the magnetizer on fuel line for proper combustion to all gas ranges of Kitchen and burner unit of Boilers- Asked for budget.</li> <li>2) Burner cleaning has to be done daily for proper combustion efficiency and proper heat transfer-Being done</li> <li>3) Base of the pot has to be clean condition-Being done on daily basis.</li> <li>4) Pilot length of gas burner should be short and it has to be integrated with main burner-Auto igniter system placed in oven and some gas ranges.</li> <li>5) Boiler tuning has to done half yearly for proper combustion-Being done.</li> <li>6) Water side cleaning has to done for proper heat transfer-Being done.</li> <li>7) Use soft water in Boiler, Steam kettle, combi oven and dish wash machine to avoid scaling-Being done.</li> <li>8) Maintain hot water temperature at 60-degree centigrade-Maintain the same.</li> </ol> <p>All these points are circulated among the kitchen staff for implementation.</p>	


## Domestic Sector


Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
1.	Creating awareness through print media on Tips to save electricity – Activity managed by NTPC.	Completed	NTPC has released specially designed advertisement in the following newspapers/ Magazines/ Souvenir etc. 1. Vir Arjun, Special supplement on PSUs Feb 2005. 2. Samay (Sidhi Distt.), February 2005. 3. ZCS (HRD Newsletter), January & February 2005 Issue. 4. Kaleidoscope, January Issue. 5. Gyanpith Magazine, January & February 2005 Issue.	
2.	Film show on Energy Conservation for Housewives – Organised by ITI Limited, Manakpur (Uttar Pradesh).	Postponed	The activity has been postponed to April 2005.	
3.	DSM Programme on Efficient Lighting – at Bangalore by BESCO, Bangalore.	New Activity - Completed	BESCOM team promoted the use of efficient lighting in the residential sectors by creating awareness among its residential consumers through personal contacts during the bill payment process at the cash counter and advertisement in print media during the road show in Bangalore. Total number of consumers targeted during this process was approximately 200,000 which are the registered consumers in the 11 sub-divisions.	
4.	Energy Conservation Awareness Programme for township - Organised by Tata Motors Ltd., Jamshedpur	New Activity – Completed	Stickers for encouraging Energy Conservation were issued for use in township.	


## Agriculture Sector

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
1.	Demonstration of Energy Efficient Agriculture Pump sets in one state by Pump Manufacturers.	Completed	M/s. Ellen Industries, manufacturers of mono blocks and submergible pumps, educating farmer about the use energy efficient pumps sets in one of the Trade Fairs, further they are connecting campaign at village level in the state of Maharashtra and Andhra Pradesh on the above subject	

## Educational Institutions

Sl. No.	Activity as per the National Campaign on Energy Conservation	Status	Brief summary on the activity	Remarks / follow up
1.	Demonstration of Energy Efficient Lighting System to School Children – Coordinated by BEE in 5 schools of Delhi.	Completed	<p>Activity slightly redefined as schools expressed their inability to organize the event in view of the annual examination of schools.</p> <p>On the Bureau's request the following industrial units have agreed to arrange the visit of school children/ college students to their industrial units in order to make them aware about the energy conservation methods that could be practice in daily life:</p> <ol style="list-style-type: none"> <li>Kesoram Cement, Basantnagar, Andhra Pradesh</li> <li>Godrej &amp; Boyce Mfg. Co. Ltd, Pirojshanagar, Vikhroli, Mumbai.</li> <li>Mangalore Chemicals &amp; Fertilizers Limited, Panambur, Mangalore</li> <li>Gujarat Narmada Valley Fertilizers Company Limited, Dist. Bharuch, Gujarat.</li> <li>Kirloskar Ferrous Industries I imited Dist</li> </ol>	

			<p>Koppal, Karnataka vi. Hindalco Industries Ltd. Village Taluka Khanvel, Silvassa, Dadra &amp; Nagar Haveli</p> <p>M/s India Cement Ltd. Dalavoi Works, Tamil Nadu on the request of Bureau of Energy Efficiency organized a programme on Energy Conservation for the benefit of students and teachers of Immaculate Matriculation School, Dalavoi on 26<sup>th</sup> February 2005. In this programme, more emphasis was given on conserving energy. The importance of energy conservation in the domestic applications was highlighted. Energy Manager of the company is also preparing a small demo model to make the school children understand easily about the importance of conservation of energy. The demo will also increase the awareness of the children to select &amp; buy energy efficient applications from the available products in the market. These models will be exhibited to children in due course by organizing a scientific exhibition.</p> <p>M/s Kesoram Rayon, have organized a plant visit of school children from Kesoram Rayon High School on 15<sup>th</sup> February 2005. Children were made aware on the benefit of saving energy during the plant visit.</p>	
2.	Seminar for Engineering Students of Ahmedabad and Gandhinagar colleges, Govt. Polytechnic and Nirma University of Science and Technology – Activity managed by Gujarat Alkalies And Chemicals Limited.	Completed	<p>Programme on Energy Conservation for engineering students of SVM Institute of Technology, Bharuch was conducted on 5<sup>th</sup> March 2005 in place of Engineering students of Ahmedabad and Gandhinagar Engineering College, Govt. Polytechnic. 150 Engineering students of Chemical, Mechanical and Electrical Engineering Branches took part in the activity.</p>	

3.	Awareness campaign on Energy conservation among Children (Standard V & VI) of HPC High School, HPCL, Kagajnar – Organised by Hindustan Paper Corporation Limited, Kagajnar, Assam.	Completed	The Awareness programme for standard V and VI of HPCL High School Kagajnar was conducted on 18 <sup>th</sup> February 2005 covering definition, the type of energy sources, conservation measurements etc. The programme was attended by 48 students of Class V and VI.	
4.	Workshop in nearby school about the energy conservation – Organised by Gateway Riverview, Dhamandivi, Ratnagiri, Maharashtra.	Completed	A workshop was conducted in a nearby school, which is adjacent to the hotel, to educate the students about the uses & importance of saving energy. The workshop was attended by 100 students.	
5.	Talks / Seminars/ Quiz on Energy Conservation for ENCON clubs – Organised by Kochi Refineries Limited, Ernakulam, Kerala, (Activity undertaken during February 2005 to December 2005).	Completed	During the month of February 2005, a team of 53 students and 3 faculties from Gregorian Public School, and company's ENCON club member, visited refinery to gain first hand information on the operation of refinery. A presentation was arranged for them highlighting various operations of refinery followed by plant visits.	
6	Creating awareness among school children – Organized by Atul Limited, Atul, Gujarat.	New activity Completed	M/s Atul Limited has agreed to Bureau of Energy Efficiency to interact with school children and make them aware of the benefit of Energy Conservation.	