SAMEEEKSHA

SMALL AND MEDIUM ENTERPRISES: ENERGY EFFICIENCY KNOWLEDGE SHARING



15TH MEETING

12 JANUARY 2019

THE ENERGY AND RESOURCES INSTITUTE (TERI)
NEW DELHI











SAMEEEKSHA

Small and Medium Enterprises: Energy Efficiency Knowledge Sharing

- Platform for pooling the knowledge and experiences of various organizations that are engaged with the Indian SME sector.
- Enables like-minded organizations to coordinate and increase the impact of their activities in different areas in the SME sector.











SAMEEEKSHA

- Provides a forum where representatives of smallscale industry interact with policy-makers, funding and development agencies, R&D institutions, academia, and others, in order to:
 - Highlight the needs of sector/cluster in regard to improving energy efficiency, reducing fuel costs, exploring alternate energy sources, and so on.
 - Point to possible options for exploring, developing, and introducing energy-efficient technologies and practices in the concerned industrial sector/cluster.
 - http://sameeeksha.org/









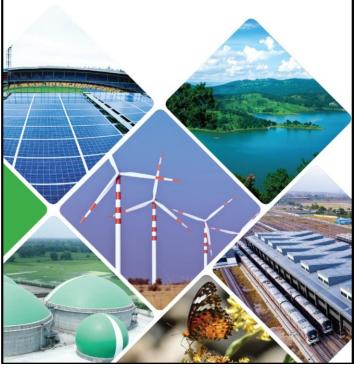


SAMEEKSHA INCLUDED IN INDIA SECOND BIENNIAL UPDATE REPORT

India

Second Biennial Update Report to the United Nations Framework Convention on Climate Change







reduction in the time taken for processing and granting approvals based on scientific and technical inputs. In this context, the Government of India launched 'PaRIVESI' (Pro Active and Responsive facilitation by Interactive and Virtuous Environmental Singlewindow Hub), a Single-Window Integrated Environmental Management System for expeditious and transparent clearances in environment, forest, wildlife and coastal regulatory zone. The Ministry is using EIA to promote climate-friendly sustainable infrastructure development. One such example is related to the building and construction sector. Under the EIA process, the Ministry gives higher priority for environmental clearance to construction projects which have obtained green building rating by integrating a high-level of environmental norms into their building plans.

6.4.2 SAMEEEKSHA

Sameeeksha is a e-platform providing comprehensive information as well as an opportunity to the representatives of Micro, Small & Medium Enterprises (MSME) sector for an interface with policymakers, funding and development agencies, R&D institutions and cacdemia to promote energy efficiency and best operating practices in the sector. This platform is supported by the Ministry of MSME, Bureau of Energy Efficiency, Swiss Agency for Development and Cooperation and Shakti Sustainable Energy Foundation. The secretariat of Sameeeksha is housed at The Energy Resource Institute (TER). A MSME Energy Map has been developed, which is a dynamic tool that provides insights into energy-intensive MSME clusters across the country, on which detailed energy-related information and data is available. So far, the Sameeeksha database accounts for about 27.3 Mtoe of energy consumption in 109 MSME clusters across the country (sameeeksha.org, 2018).

6.4.3 Super-efficient Equipment and Appliance Deployment (SEAD)

India is a member country of the Super-efficient Equipment and Appliance Deployment (SEAD) initiative, which is a voluntary collaboration among governments working to promote the manufacture, purchase, and use of energy-efficient appliances, lighting, and equipment worldwide. SEAD is an initiative under the Clean Energy Ministerial (CEM). The SEAD initiative works with manufacturers, purchasers, purchase influencers, and policymakers to away.

6.4.4 PAHAL - Mass Collaboration for Clean Cooking Fuel

The Ministry of Petroleum and Natural Gas (MoPNG), Government of India, launched a modified Direct Benefit Transfer of LPG (DBT) scheme 'Pahai (Pratyaksh Hanstantrit Labh)' in 54 districts on 15th November 2014, which was extended to the entire country on 1th January 2015.



Figure 6.13: PAHAL acknowledged by Guinness Book of World Records (2015)

Liquefied Petroleum Gas (LPG) is used in most urban and urural households and is subsidized. To reduce subsidies, a programme was launched to encourage well-to-do households to voluntarily give up their LPG subsidy so that it could be targeted to the poor who generally use fuelwood, cow dung, crop residue and coal as cooking fuel. Data from the MoPNG indicates that as of January 2018, more than 0.57 million households had voluntarily surrendered their LPG subsidy. The availability of subsidy encourages people to move away from fuelwood, cow dung and crop residue to LPG.

LPG consumers who join the PAHAL scheme will get LPG cylinders at market price and receive LPG subsidy (as per their entitlement) directly into their bank accounts.

In 2015, PAHAL was acknowledged by the Guinness Book of World Records for being the largest cash transfer programme, with 125.7 million households receiving cash transfer as of 30th June 2015 (PIB, 2015) (Figure 6.13).

As on 1st March 2018, around 198.8 million LPG consumers have joined the scheme and an amount of ₹6,80,203.5 million has been transferred to the bank accounts of LPG consumers since the inception of the scheme (PIB, 2018). Direct transfer modality under the scheme has ensured substantive savings on supply of LPG consumers to the households by replacing inactive accounts.











AN UPDATE FROM SAMEEKSHA SECRETARIAT: (SEP 2018 – JAN 2019)











14TH MEETING - REGIONAL MEETING AT KOLKATA (AUGUST 2018)

Presentations

 SAMEEEKSHA Platform: an update—Mr Sachin Kumar, Secretary, SAMEEEKSHA

Technical Session-1: Scaling-up energy efficient technological solutions

- Factors influencing uptake of energy efficiency in Indian MSMEs— Mr Tirtha Biswas, CEEW
- Promoting EE technologies and best practices:
 TERI's intervention among the MSMEs in eastern region— Mr Prosanto Pal and Mr
 Pawan Kumar Tiwari, TERI















14TH MEETING - REGIONAL MEETING AT KOLKATA (AUGUST 2018)

Technical Session— 2: BEE and MoMSME initiatives in Eastern Region

- BEE's initiative in MSME sector -Mr. Milind Deore, Director, BEE
- Initiatives by MSME-DI Kolkata –
 Mr. Monojit Guha, Deputy Director,
 MSME-DI, Kolkata















SAMEEEKSHA NEWSLETTER





Sep' 18 Issue

 Focus on strengthening the technical capacities of shop floor level personnel in train-the-trainer (TOT) mode.















Dec' 18 Issue

Focus on GEF-BEE-UNIDO project 'Promoting energy efficiency and renewable energy in selected micro, small and medium enterprises (MSME) clusters in India'











DISCUSSIONS DURING THE LAST MEETING: ACTION POINTS FOR THE SECRETARIAT

- Need to deep-dive intervention in cold storage sector in Jharkhand
- Need to organize sector-specific intervention and awareness program for Refractory sector
 - Interactive session will be organized in March/April 2019
- Specific program to be organized for brick kiln units to understand their concerns
- Creating more awareness about Government schemes by advertisement in newspaper/linking MSME-DI's web-site with SAMEEEKSHA web-site











ENERGY INTENSIVE MSME CLUSTERS IN TAMIL NADU











FOUNDRY CLUSTER











1. Coimbatore



CERAMIC CLUSTER



1. Virudhachalam











AUTO COMPONENT CLUSTER



- 1. Chennai
- 2. Thiruvallur
- 3. Hosur











PHARMACEUTICAL CLUSTER



- 1. Chennai
- 2. Alathur



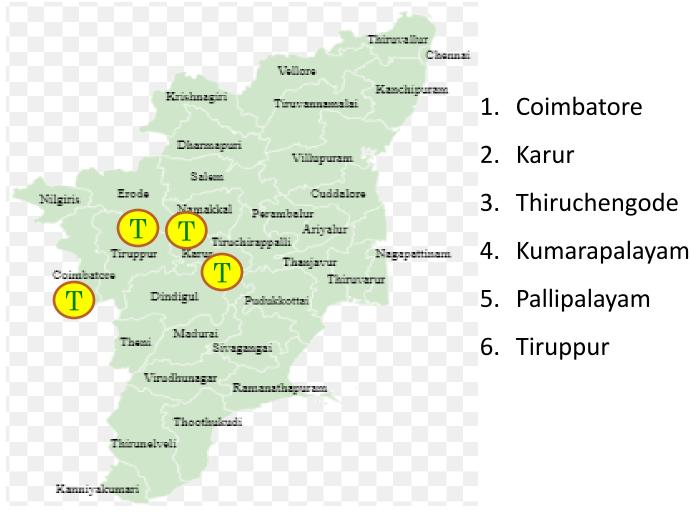








TEXTILE AND HOSIERY CLUSTER













PLASTIC CLUSTER



- 1. Ekkaduthangal
- 2. Guindy
- 3. Ambathur
- 4. Madurai











LEATHER CLUSTER



- 1. Ambur
- 2. Vaniambadi
- 3. Pernambur
- 4. Ranipet
- 5. Madhavaram
- 6. Chrompet
- 7. Pallavaram











RICE MILL CLUSTER









SUSTAINABLE ENERGY



PUMP CLUSTER











Coimbatore



BRASS CLUSTER



- 1. Nachiarkoil
- 2. Swamimalai











BAKERY CLUSTER



1. Coimbatore











ENERGY CONSUMPTION AND SAVING POTENTIAL IN MSMEs

S No	Sector	States	Clusters	Energy (toe)
1	Foundry	Tamil Nadu, Karnataka	3	98,526
2	Pump set	Tamil Nadu	1	3,070
3	Forging	Tamil Nadu	1	9,440
4	Aluminium	Tamil Nadu	1	12,340
5	Refractory	East West Godavari, Tamil Nadu	2	30,298
6	Textile	Tamil Nadu	1	8,17,965
7	Rice mill	Tamil Nadu, Telengana	4	1,65,621
8	Seafood	Kerala	1	2,574
9	Ice making	Kerala	1	3,978
10	Machine tools	Karnataka	1	1,962
11	Bakery	Tamiil Nadu	1	5,798
12	Coir	Kerala	1	6,168
13	Brick	Tamil Nadu and Andhra Pradesh		28,70,000
	Total		19	4,027,740

☐ Estimated energy saving: 400 −600 kilo toe considering a potential of 10-15%











THANK YOU

SAMEEEKSHA SECRETARIAT











WAY FORWARD

- A number of energy intensive MSME clusters exist in Southern India accounting for significant energy consumption and GHG emissions
- Cluster and unit level analysis indicate significant energy saving potential through:
 - Best operating practices
 - Equipment retrofits, and
 - Technology modernisation or upgradation
- Need for more in-depth studies in select clusters and initiate 'cluster energy performance enhancement programs'







