

BEE LINE

NEWSLETTER



National
Energy
Conservation
Day 2019

National
Level Painting
Competition on
Energy Conservation

National
Energy
Conservation
Awards 2019

Highlights of
the Quarter
(Oct-Dec)



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MESSAGE

India being one of the developing economies, need to optimize its energy consumption and carbon emission. With the growth in the economy, our country has also witnessed an increase in the demand of energy. This has led to a serious matter of concern specially in some of the energy intensive sectors. The energy sector has chipped in with various innovative ways and advanced technologies to cater to the growing demand.

The efficient use of energy resources and its conservation can make a tremendous impact on energy conservation for our country. Bureau of Energy Efficiency has led the country's initiative to make efficient use of energy through its nationwide scheme Like Perform, Achieve & Trade, Standard & Labeling, Demand Side Management, development of Energy Conservation Building Code for both commercial and residential buildings etc. From organizing Capacity building programme for our stakeholders to identifying and awarding the Industrial units and establishments with National Energy Conservation Awards on the occasion of National Energy Conservation Day, BEE is continuously monitoring and encouraging people to come forward and make their contribution towards building an energy efficient nation.

To achieve a sustainable future, the Bureau of Energy Efficiency is promoting the efficient usage of energy in country and there is a need for all of us to come together in this mission of making India an energy efficient country.

Abhay Bakre
Director General, BEE



MESSAGE

One of the primary concerns for India is to enhance the energy efficiency in the industries in order to reduce the carbon emissions and to combat against the threat of climate change. BEE has conducted sector specific studies to do the situational analysis and has carried out several schemes to enable designing of a transparent, flexible, efficient and robust system for energy efficiency in the country.

The Bureau of Energy Efficiency proudly carries out various energy efficient initiatives that are significantly reducing the carbon emissions of our country. We take pleasure to assist the Government of India in developing policies and strategies, in order to reduce the energy intensity of our country. India's mission of attaining sustainable future depends on concentrated efforts by all stakeholders and in order to train them to adopt the best practices for energy conservation, BEE organizes various Training of Trainers programme, Capacity building programme under DISCOM, Standards & Labeling etc.

Through BEE Line, we apprise our stakeholders of various energy efficient programmes and their transformative impact on the domestic and commercial sectors in India.

R.K Rai
Secretary, BEE

BEE CELEBRATES 29TH NATIONAL ENERGY CONSERVATION DAY

On the occasion of National Energy Conservation Day, 14th December, Bureau of Energy Efficiency (BEE), under the guidance of Ministry of Power, Government of India, organised the 29th National Energy Conservation Awards at Vigyan Bhavan. Shri R. K. Singh, Minister of State (IC) for Power and New & Renewable Energy and Minister of State for Skill Development & Entrepreneurship was the chief guest for the ceremony. The aim of the event was to promote energy conservation among all the sectors of economy, and to award outstanding industrial units and other establishments for their excellent performance in achieving energy efficiency in order to encourage more actions in achieving efficient utilization and conservation of energy. For the first time application for NECA Awards were invited through NECA portal (www.bee-neca.in).

This year it is reported that 355 units have participated and collectively achieved an annual monetary savings of ₹5,283 crores and saved 10,566 million units of electrical energy.

Awards were also distributed to the winners of National Painting Competition for students. 26 students from two groups were presented with awards. The prize-winning paintings will be displayed in Government offices.

Shri Sanjay Nandan Sahai, Secretary MoP, Shri Abhay Bakre, DG BEE, Shri Anand Kumar, Secretary MNRE, Shri Raj Pal, Economic Adviser MoP, Shri R.K Rai, Secretary BEE, Students, Parents, BEE officials and various media professionals were present in the event. The dignitaries and delegates visited an exhibition depicting various initiatives on energy efficiency and their current progress highlighting major contribution to country's energy security. The paintings of winners of National Painting Competition were also showcased at the exhibition.

The National Energy Conservation Awards ceremony was the culmination of a week-long celebration leading to National Energy Conservation Day. A series of events highlighting energy efficiency and conservation were organised from 9th to 13th December.





9th December _____
Interactive workshop for ESCOs, Financial Institutions and industries in association with SDA, Delhi.

10th December _____
National Workshop on Energy Conservation Guidelines for SMEs in association with TERI.

12th December _____
National Level Painting Competition for school Children in association with NTPC and PGCIL.

12th & 13th December _____
International Cooling workshop under the umbrella of Super-Efficient Appliance and Equipment Deployment (SEAD) initiatives of Clean Energy Ministerial (CEM) in association with IEA.

14th December _____
National Energy Conservation Day 2019 celebrated as the concluding event of the week. Approx. 1,500 delegates were present. Apart from the awardees, winners of National level Painting Competition 2019 i.e. school children from class 4 to 9 were also awarded.

Winners of NATIONAL LEVEL PAINTING COMPETITION 2019 CATEGORY A

Congratulations!



Name: Sristi Paul
Position: 1st
School: St. Paul's Hr. Sec. School / Std VI
State: Tripura



Name: Mousomi Saha
Position: 2nd
School: Nabin Palli J.B. School / Std V
State: Tripura



Name: Arindam Rai Singh
Position: 3rd
School: Heritage School / Std VI
State: Jammu & Kashmir



Name: Tahrifa Sultana
Position: Consolation
School: Crazy Bird / Std V
State: Bihar



Name: Varsha Acharya
Position: Consolation
School: Govt. Model Sr. Sec. School / Std VI
State: Chandigarh



Name: Debadrita Nayak
Position: Consolation
School: Dulalpur Kshirod Chandra Girls School (High) / Std VI
State: West Bengal



Name: Boga Sai Kumar
Position: Consolation
School: Zilla Parishad Secondary School / Std VI
State: Telangana



Name: Nandini Agrawal
Position: Consolation
School: Fr. Agnel School / Std VI
State: Uttar Pradesh



Name: Rajat Kumar
Position: Consolation
School: Govt. Model Sr. Sec. School / Std VI
State: Chandigarh



Name: Sanya Sejal
Position: Consolation
School: Acharyakulam Patanjali Yogpeeth / Std V
State: Uttarakhand



Name: Mahi Agrawal
Position: Consolation
School: St. Vincent Pallotti School / Std VI
State: Chhattisgarh



Name: Shah Bhavya Dharmendrabhai
Position: Consolation
School: St. Mary Primary School / Std IV
State: Gujarat



Name: Manimegalai S
Position: Consolation
School: Govt. High School / Std VI
State: Puducherry



CATEGORY B



Name: Somesh Kumar Sathpathy
Position: 1st
School: Delhi Public School
Kalinga / Std VII
State: Odisha



Name: Md. Aamir Hussain
Position: 2nd
School: Delhi Public School /
Std VIII
State: Assam



Name: Sneha Kashyap
Position: 3rd
School: Acharyakulam Patanjali
Yogpeeth / Std VII
State: Uttarakhand



Name: Kavya Gupta
Position: Consolation
School: The Principal
Kennedy high The Globle
School Std IX
State: Telangana



Name: Naveena S
Position: Consolation
School: Bharathi Matric Hr. Sec.
School / Std IX
State: Tamil Nadu



Name: Sakshi Sahu
Position: Consolation
School: Delhi Public School /
Std VII
State: Uttarakhand



Name: Snehashree Sahoo
Position: Consolation
School: D.A.V. Public School /
Std VIII
State: Odisha



Name: Anurag Singha
Position: Consolation
School: Rupvarnam Fine Art
Society / Std VIII
State: Assam



Name: Aryanshi Singh
Position: Consolation
School: Carmel Convent Sr. Sec. School / Std IX
State: Madhya Pradesh



Name: Avinash A
Position: Consolation
School: Amalorpavam Hr. Sec. School / Std IX
State: Puducherry



Name: Kajalkumari Rajendra Prasad Lodhi
Position: Consolation
School: PS Rakholi (English Medium) / Std VIII
State: Dadra & Nagar Haveli



Name: Surabhi Sunil Desai
Position: Consolation
School: Annasaheb Kalyani Vidyalay / Std IX
State: Maharashtra



Name: Zafidha M.K.
Position: Consolation
School: Dr. KKMKGSSS / Std IX
State: Lakshadweep



Winners of NATIONAL ENERGY CONSERVATION AWARDS 2019

CATEGORY: INDUSTRIES

SECTOR	FIRST PRIZE	SECOND PRIZE	CERTIFICATE OF MERIT
Chemicals	Grasim Industries Limited, Chemical Division, Rehla, Dist. Palamau (Jharkhand)	BEEPEE Coatings Pvt. Ltd., Anand (Gujarat)	Jubilant Life Sciences Limited, Unit-1, Dist. Bharuch, (Gujarat)
Consumer Goods	Panasonic Life Solutions India Pvt. Ltd., Vill. Bhimpore, Nani Daman (Daman & Diu)	Samsung India Electronics Private Limited, Noida (Uttar Pradesh)	Godrej & Boyce Mfg. Co. Ltd., Mohali (Punjab)
Manufacturing	Endurance Technologies Ltd. – Transmission Plant, Aurangabad (Maharashtra)	Granules OmniChem Pvt. Ltd., Visakhapatnam (Andhra Pradesh)	1. Subros Limited, IMT Manesar (Haryana) 2. Kirloskar Oil Engines Limited, Nashik (Maharashtra)
Edible Oils / Vanaspati			KTV Health Food Pvt. Ltd., Dist. Tiruvallur (Tamilnadu)
Foundries	Technosystems, Belgam (Karnataka)	Porwal Auto Components Ltd., Dist. Dhar (Madhya Pradesh)	Bakgiyam Engg Works – Foundry Division, Coimbatore (Tamil Nadu)
Integrated Steel Plants	Rashtriya Ispat Nigam Limited, Visakhapatnam Steel Plant, Visakhapatnam, (Andhra Pradesh)	Tata Steel Limited, Kalinganagar, Jajpur (Odisha)	SAIL, IISCO Steel Plant, Dist. West Burdwan (West Bengal)
Ordnance Factories	Ordnance Factory Medak, Dist. Sangareddy (Telangana)	Ammunition Factory, Khadki, Pune (Maharashtra)	1. Gun Carriage Factory, Jabalpur (Madhya Pradesh) 2. Ordnance Factory, Dum Dum, Kolkata (West Bengal)
Petrochemicals	GAIL India Limited, Pata, Auraiya (Uttar Pradesh)		Haldia Petrochemicals Ltd., Haldia, Dist. Purba Mednipur (West Bengal)
Sponge Iron	Nalwa Steel and Power Limited, Raigarh (Chhattisgarh)	Kirloskar Ferrous Industries Limited, Dist. Koppal (Karnataka)	JSW Steel Coated Products Ltd., Kalmeshwar, Dist. Nagpur (Maharashtra)
Textiles (Large)	Arvind Limited, Gandhinagar (Gujarat)		1. GBTL Limited (formerly known as Grasim Bhiwani Textiles Limited), Bhiwani (Haryana) 2. Grasim industries Ltd, Unit-Jaya Shree Textiles, Rishra. (West Bengal) 3. Raymond Limited, Valsad, (Gujarat)
Textile (Small)	Zenitex. Surat, (Gujarat)	BMD Pvt.Ltd. Banswara, (Rajasthan)	Rishab Spinning Mills. Ludhiana, (Punjab)
Railway Production Units	Diesel Loco Modernization Works, Patiala (Punjab)	Chitranjan Locomotive Works, Paschim Burdwan (West Bengal)	Integral Coach Factory, Chennai (Tamil Nadu)

CATEGORY: TRANSPORT

SECTOR	FIRST PRIZE	SECOND PRIZE	CERTIFICATE OF MERIT
Zonal Railways	Western Railway, Churchgate, Mumbai (Maharashtra)	Northern Railway, Baroda House (New Delhi)	1. South Central Railway, Secunderabad (Telangana) 2. Southern Railway, Chennai (Tamil Nadu)
Metro Railways	Lucknow Metro Rail Corporation, Lucknow (Uttar Pradesh)		
Metro Stations	Mandi House Metro Station, Delhi Metro Rail Corporation (New Delhi)		Janpath Metro Station, Delhi Metro Rail Corporation (New Delhi)

CATEGORY: BUILDINGS

SECTOR	FIRST PRIZE	SECOND PRIZE	CERTIFICATE OF MERIT
Engineering Institutes/ Universities	Gita Vidya Mandir Girls College, Sonipat (Haryana)	Indian Railways Institute of Electrical Engineering (IRIEEN), Nasik road, (Maharashtra)	1. Electric Traction Training Centre, Vijayawada Division, South Central Railway, Vijayawada (Andhra Pradesh) 2. ST. Teresa's College (Autonomous), Ernakulam (Kerala)
Schools	Railway Senior Secondary School, Salem Division, Southern Railways, Erode (Tamil Nadu)		Railway Mixed High School, Podanur, Salem Division Southern Railways, Salem (Tamil Nadu)

CATEGORY: INSTITUTIONS

SECTOR	FIRST PRIZE	SECOND PRIZE	CERTIFICATE OF MERIT
State Designated Agencies	Energy Management Centre – Kerala	Maharashtra Energy Development Agency (MEDA)	1. Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) 2. New and Renewable Energy Department (HAREDA (Haryana)
Performance Awards for CPWD, PHED & State PWDs	Lekha Bhavan, Secunderabad (Telangana)	Divisional Railway Manager Office, Western Railway, Rajkot (Gujarat)	1. Kacheguda Heritage Building, Secunderabad (Telangana) 2. Divisional Railway Manager's Office, Bhavnagar (Gujarat)
Financial Institutions (Banks / NBFCs)			Small Industries Development Bank of India (SIDBI) (New Delhi)

CATEGORY: APPLIANCES

Sector	Most Energy Efficient Appliance of the Year
Air Conditioners (Fixed Speed & Variable Speed AC)	LG Electronics India Pvt. Ltd., Greater Noida (Uttar Pradesh) (Model No. - KS-Q18ENZA)
Ceiling Fans	1. Crompton Greaves Consumer Electricals Limited, Ponda (Goa) (Model No. HS Plus) 2. Usha International Limited, Gurgaon (Haryana) (Model No. - Energia)
Refrigerator (Direct Cool Refrigerator & Frost Free Refrigerator)	Godrej & Boyce Mfg. Co. Ltd., Mumbai (Maharashtra) (Model No. RD EDGE Pro 190 PDS INV 5.2)
Storage Water Heater	Havells India Limited, Sector-126, Expressway, Noida (Uttar Pradesh) (Model No. Puro Turbo 25)
Pumps (Monoset, Open well, Submersible Pumps)	C.R.I. Pumps Private Limited, Coimbatore (Tamil Nadu) (Model No- CRI 4R-5/07)
LED Bulb	Crompton Greaves Consumer Electricals Limited, Baroda (Gujarat) (Model No. 9W LED Bulb CDL)





Bringing Electric Mobility to India

International Workshop On “Policy Framework To Deploy Electric Vehicles Charging Infrastructure”

Today, India is one of the fastest growing economies in the world, but its increasing dependency on oil imports, rising environmental concerns and growing need for sustainable mobility solutions are posing serious economic and social challenges for the country.

India has committed to reduce emission intensity (of its GDP) by 33-35% from the 2005 level by the year 2030 in the Paris Agreement of 2015. By 2020, 330 MT (million tons) of CO₂ emissions are expected to arise from the transportation sector, 90% of which may be from road transport alone. NITI Aayog suggests that India can save 64% of anticipated passenger road-based and mobility-related energy demand and 37% of carbon emissions by 2030, if it pursues electric mobility in future. This would probably result in an annual reduction of 156 MTOE (Million Tons of Oil Equivalent) in diesel and petrol consumption by 2030.

To achieve these targets, national and state governments have taken a proactive stance and have come up with several promotional policies and schemes giving fiscal and non-fiscal incentives to boost the electric mobility sector in the country.

The government has upgraded the technical and safety norms for charging infrastructure of electric vehicles and has appointed Bureau of Energy Efficiency (BEE) as the single nodal agency for the implementation of charging infrastructure set up in India. To promote electric mobility as a viable substitute to conventional modes of commuting, Ministry of Power has taken path-breaking decisions over the past two years like obviating the need of a

license to set up charging stations and issuing guidelines & standards for deployment of public charging infrastructure in the country.

As a continuation of these efforts, Bureau of Energy Efficiency (BEE) organized a one-day international workshop on “Policy Framework to deploy Electric Vehicles Charging Infrastructure” in association with the International Energy Agency (IEA). The workshop was part of E.V.I/ workstream under the Clean Energy Ministerial (CEM) framework. Shri Vivek Kumar Dewangan (Joint Secretary, Ministry of Power), Shri Anil Shrivastava (Principal Advisor, NITI Aayog), Shri Abhay Bakre (DG, BEE), Shri Saurabh Kumar (MD, EESL), Mr Christian Zinglersen (Head, Clean Energy Ministerial Secretariat), Sameer Pandita (Director BEE) and other eminent dignitaries graced the workshop with their presence.





The day-long workshop witnessed interactive sessions on themes such as EVSE systems, need for deployment of EV charging infrastructure to accelerate EV adoption, enabling policy frameworks, exploring business models, city-led development for EV charging infrastructure, etc. Drawing from global and domestic experiences, the sessions provided an overview of the policy options available to the Governments and authorities at national, state and local levels, such as incentives, amendments to urban planning requirements and removal of barriers to enhance the pace of deployment of EV charging infrastructure across the country. Innovative business proposition across the EV charging value chain were discussed to identify existing as well as emerging business models and the required enabling policy frameworks for its implementation.

THE URGENT NEED FOR ENERGY EFFICIENT COOLING

International Workshop on Energy Efficient Cooling

Global temperatures are on the rise. July 2019 was the hottest month ever recorded. Cooling is now even more essential to well-being, food, medicine preservation, industrial manufacturing, sustainable agriculture and economic growth. It has become a critical component of sustainable urbanization and rural development.

The use of energy for space cooling is growing faster than any other end use in buildings, more than tripling over the past three decades. Almost a fifth of all the electricity use in buildings is for cooling. Global sales of Air Conditioners (ACs) have been growing steadily and significantly: since 1990, annual sales of ACs nearly quadrupled to 135 million units. There are now more than 1.6 billion in use and keeping them running consumes over 2000 terawatt hours (TWh) of electricity every year, which is two and a half times the total electricity use of Africa. Increased AC loads push up not only overall power needs, but also the need for generation and distribution capacity to meet demand at peak times, placing further stress on the power system. The greatest share of the projected growth in

energy use for space cooling by 2050 comes from India, China and Indonesia – contributing half of global cooling energy demand growth. Rigorous action by governments is needed urgently to curb the rapid growth in demand for air conditioning.

Another significant energy consumer for cooling is the cold chain. It plays a vital role in economic development, food security and employment creation. Cold-chains are integrated, seamless and resilient networks of refrigerated and temperature controlled pack houses, distribution hubs, vehicles and processes to maintain the safety, quality and quantity of food, while moving it swiftly from farm gate to consumers. According to the Food and Agriculture Organization of the United Nations (FAO), in developing economies, 30 to 40% of food produced for human consumption is lost before it can even make it to market. The development of sustainable cold chain technologies is one opportunity to close the gap on food loss and carbon emissions, since spoilage could be avoided if proper refrigeration infrastructure were in place. While food lost in the





delivery chain is avoidable through use of technology, cold-chain itself is an energy intensive application, often relying on diesel for off-grid and on-vehicle cooling.

The energy demand of space cooling and cold chain cooling is expected to surge at a dramatic rate. Current rates of energy efficiency gains are insufficient to dent this growth. The cold chain sector offers significant

opportunities for reducing cooling demand, refrigerant requirement, and energy consumption through improved design, including proper insulation and use of energy-efficient cooling equipment. There is a need for urgent action and innovation to develop and deploy new technologies, systems and business models.

With the view of exploring opportunities to accelerate progress on energy efficient cooling across sectors and systems, under the aegis of the Clean Energy Ministerial’s Super-efficient Equipment and Appliance Deployment (SEAD) Initiative, the Bureau of Energy Efficiency in association with the International Energy Agency organized an “International Workshop On Energy Efficient Cooling” to chart out steps towards accelerating the development and deployment of efficient and sustainable cooling appliances, equipment and systems. The sessions explored the role of standards and labels and how deployment of energy efficient and sustainable cooling technologies could help achieve India’s need for an energy efficient cooling sector.

The first day of the International workshop on Energy Efficient Cooling witnessed a wide range of discussions and deliberations on policies and technologies required for deployment of energy efficient cold chain systems and had detailed presentations and deliberations on district cooling,

impact of cooling on grid and how new approaches and business models can be beneficial in accelerating progress on energy efficient cooling across the sector.

The second and concluding day of the workshop highlighted the progress on the development and implementation of cooling action plans, policies and programmes and the need to provide guidance to stakeholders on the measures that can be taken to support progress towards efficient cooling.

The major takeaways from the workshop were the need to promote the use of efficient cooling technology, energy conservation building designs, collaboration and continual innovation in technology and periodic maintenance of the systems to sustain the efficiency of the system throughout its life.

Delegates from BEE, CEM, IEA, EESL and other eminent members from around the world attended the workshop and shared their perspective of new innovations and business models that could help in making India an energy efficient economy.



SPREADING THE MESSAGE OF ENERGY CONSERVATION

BEE Brands Lajpat Nagar Metro Station in Delhi

Energy is one of the key indicators that reflects the growth of a nation and efficient use of this important resource is the cornerstone of sustainable development. It is therefore imperative for the billions of people in India to take small steps that lead to big savings. To spread the message of energy conservation in Delhi, Bureau of Energy Efficiency has acquired branding for Lajpat Nagar Metro Station.

The station is located on one of the busiest streets in Delhi in a major market area i.e Lajpat Nagar Market which is today popular all over the country as the ultimate shopping destination for people on a budget. There is very limited chance that one will not find at the Lajpat Nagar Market as everything, right from the furniture, toiletries & cover of kitchen refrigerator to the clothes are easily available here. It is an interchange station between Violet Line and Pink Line of the Delhi Metro. With a large number of footfalls at the station and its presence in a crowded city area, the station is an ideal location to spread the message of energy efficiency.







Bureau of Energy Efficiency is displaying several messages related to energy efficiency and conservation at the station through billboards. The energy conservation message has been displayed by the use of graffiti art. There are various reasons of this art becoming more popular & important for people of all walks of life. It is an important part of history and identity for many metropolises, and sometimes even has the ability to breathe life into communities.

Over time, the importance of energy conservation will be imbibed by the citizens of Delhi, it is hoped.

HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Standards & Labeling Retailer Training Programme Organized in Various Districts Across India

The Objective of The Programme is to Create Awareness Among Retailers on BEE Star Labeling Programme. The Programme were held between 3rd October to 4th December in which retailers & dealers participated.



Retailer Training programme was organized on 3rd & 4th October 2019 at Vijayawada & Guntur in Andhra Pradesh. The training at Vijayawada was graced by Smt. Lakshmi Bhanu, Deputy General Manager, APSECM, Sh. Nageshwar Rao, President, ISHRAE Vijayawada Sub-Chapter, Sh. Abdul Jameel Khadri, President, VART Association and the training at Guntur was graced by Smt. Lakshmi Bhanu, Deputy General Manager, Andhra Pradesh State Energy Conservation Mission (APSECM), Sh. S.K. Mastan, Vice-President, RART Association and was attended by prominent retailers & dealers.



Retailer Training programme was organized on 14th November 2019 at Kanpur (U.P). The programme was graced by Shri Narendra Singh, Project Officer, Uttar Pradesh New & Renewable Energy Development Agency (UPNEDA) and was attended by prominent retailers & dealers.



Retailer Training programme was organized on 4th December 2019 at Jalandhar & Rajkot. Shri Raminder Singh, AGM, PEDA graced the occasion as the chief guest in Jalandhar. He shared his views regarding energy efficiency & techniques of energy conservation. Shri Shamsher Singh Sucharia, President - Rajkot Vyapar Mandal graced the programme at Rajkot. During the programme Shri Uday Jadav, Director (Shiv Refrigeration), shared his views on the benefits of BEE Star Rated appliances & their uses among retailers & consumers.

HIGHLIGHTS OF THE QUARTER

(October - December 2019)

5 Days Residential Training of Trainers Programme held under Capacity Building of DISCOMs Programme on DSM & Energy Efficiency at Various Places Across India

The Objective of these Programs is Capacity Building of DISCOMs Officials for Carrying out DSM and Energy Efficiency activities in their Jurisdiction and further to build the capacity of the Circle Level Officials. The programs were held between 14th October to 13th December, 2019.



Attendees- 40 officials of Central Electricity Supply Utility (CESU)
Date- 14th -18th October 2019 | **Place-** Bhubaneswar, Odisha



Attendees- 40 officials of Hubli Electricity Supply Company Limited (HESCOM)
Date- 15th-19th October | **Place-** Hubli, Karnataka



Attendees- 30 officials of Brihanmumbai Electricity Supply and Transport (BEST)
Date- 4th – 8th November 2019 | **Place-** Mumbai, Maharashtra

HIGHLIGHTS OF THE QUARTER

(October - December 2019)



Attendees- 39 officials of Madhya Pradesh Paschim Kshetra Vidyut Vitran Company Limited (MPPKVCL)
Date- 7th – 9th November 2019 | **Place-** Indore, Madhya Pradesh



Attendees- 39 officials of NESCO Utility of Odisha
Date- 18th–20th November 2019 | **Place-** Baripada, Odisha



Attendees- 37 officials of Southern Power Distribution Company of Telangana Limited (TSSPDCL)
Date- 19th – 21st November 2019 | **Place-** Hyderabad



Attendees- 40 officials of Mangalore Electricity Supply Company Limited (MESCOM)
Date- 25th – 27th November 2019 | **Place-** Mangalore, Karnataka

HIGHLIGHTS OF THE QUARTER

(October - December 2019)



Attendees- 26 officials of Electricity Department, UT of Lakshadweep
Date- 12th – 16th November | **Place-** Kavaratti Island, Lakshadweep



Attendees- 34 officials of Northern Power Distribution Company of Telangana Limited (TSNPDCL)
Date- 14th – 16th November 2019 | **Place-** Khammam, Telangana



Attendees- 36 officials of BSES Yamuna Power Limited (BYPL)
Date- 3rd – 5th December 2019 | **Place-** New Delhi

HIGHLIGHTS OF THE QUARTER

(October - December 2019)



Attendees- 45 officials of CESU Utility of Odisha
Date- 4th-6th December 2019 | **Place-** Angul, Odisha



Attendees- 35 officials of SOUTHCO Utility of Odisha
Date- 5th-7th December 2019 | **Place-** Rayagada, Odisha



Attendees- 34 officials of Hubli Electricity Supply Company Limited (HESCOM)
Date- 5th-7th December 2019 | **Place-** Bagalkot, Karnataka



Attendees- 35 officials of Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Ltd. (MPPoorvKVVCL)
Date- 2nd-4th December 2019 | **Place-** Jabalpur, Madhya Pradesh

HIGHLIGHTS OF THE QUARTER

(October - December 2019)



Attendees- 40 officials from Andhra Pradesh Eastern Power Distribution Company Limited (APEPDCL)
Date- 10th-12th December 2019 | **Place-** Eluru, Andhra Pradesh



Attendees- 28 officials of Electricity Department, UT of Puducherry
Date- 11th - 13th December 2019 | **Place-** Puducherry

Upgradation of Energy Performance Standards For Self-Ballasted LED Lamps

BEE has upgraded energy performance standards for self-ballasted LED lamps, star labelling for self-ballasted LED lamps was first launched by BEE on voluntary basis in the year 2015 followed by mandatory compliance regime for all such lamps sold in the country from 1st January 2018 onwards. Mandatory Energy Performance standards for self-ballasted LED lamps have been ratcheted up by two star levels.



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

National Workshop on Implementation of Energy Conservation Building Code

The National workshop on implementation of Energy Conservation Building Code in States/ UTs was organized on the 18th & 19th October 2019 at New Delhi. The workshop was inaugurated by Shri Raj Pal, Economic Adviser, Ministry of Power & Shri Abhay Bakre, Director General, BEE. Representatives from State Designated Agencies participated in the 2-day workshop & states such as Telangana, Maharashtra, Himachal Pradesh, Karnataka, Uttarakhand, Uttar Pradesh, Puducherry shared success stories & their best practices.

During the event, the physical and financial progress of State Designated Agencies (SDAs) was reviewed. The workshop was attended by representatives of 25 SDAs and various other stakeholders.



डी जी, बी ई ई ने हिंदी पखवाड़ा के विजेताओं को पुरस्कृत किया

12 से 26 सितम्बर के बीच हुए हिंदी पखवाड़ा के अंतर्गत आयोजित विभिन्न प्रतियोगिताओं और कार्यक्रमों के सभी विजेताओं को पुरस्कृत किया गया।



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Scaling Up Energy Efficiency Financing- Round Table Meeting with Financial Institutions

BEE organized Round table meeting with banks and NBFCs in New Delhi on 30th October 2019. Shri S C Garg, Secretary, Ministry of Power, urged financial institutions to scale up financing of Energy Efficiency projects as most of the projects are bankable and have attractive payback time period.



बी ई ई प्रांगण में दिवाली उत्सव का आयोजन

बी ई ई के कार्यालय में दीवाली की शुभ अवसर पर रंगोली प्रतियोगिता का आयोजन हुआ, जहाँ सभी लोगों ने बढ़चढ़ कर हिस्सा लिया।



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Energy Efficiency in India's Cold-Chain Sector: The Role Of Pack-Houses

BEE in partnership with World Bank, Energy Sector Management Assistance Program and Alliance for an Energy Efficient Economy (AEEE) organized a stakeholder consultation on "Energy Efficiency in India's Cold-Chain sector: The role of Pack-houses at New Delhi on 14th November 2019.

Abhay Bakre, Director General, BEE, P K Swain, Joint Secretary, Ministry of Agriculture, Prof Pawanexh Kohli, CEO, National Center for Cold Chain Development, officials from World Bank, NITI Aayog, Ministry of Food Processing Industries, Central Institute of Post-Harvest Engineering & Technology (CIPHET), National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Ministry of Micro, Small & Medium Enterprises (MSME), Ministry of Environment, Forest and Climate Change, International Solar Alliance (ISA) and other stakeholders were present.

Discussion on various policy and regulatory recommendations, guidelines on Energy Efficient design & operation of pack houses and the need for development of baseline & benchmark for energy performance evaluation of pack houses were carried out during the workshop.



State Level Painting Competition Held in Various States Across India

A Glimpse of State Level Painting Competition, held in various States across India on 14th November 2019.



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Awareness Programme Organized on the Inclusion of New Designated Consumers of Indian Railways under the PAT Scheme

An awareness programme was organized on the inclusion of New Designated Consumers of Indian Railways under the PAT Scheme on the 15th November 2019. More than 80 senior-level officers from Indian Railways participated in the awareness programme.

The aim of the workshop was to help in making an action plan for the inclusion of new energy intensive units of Indian Railways in the PAT Scheme.



GEF-UNIDO-BEE Project “Promoting Energy Efficiency And Renewable Energy at Selected MSME Clusters in India”

- GEF-UNIDO-BEE project “Promoting Energy Efficiency and Renewable Energy at Selected MSME clusters in India” was upscaled to State of Sikkim for increasing energy efficiency of SMEs of Pharma, Food Processing, Distilleries and other industrial sectors of the State.
- Energy Management Cell with state-of-the-art energy auditing instruments was inaugurated at Sikkim SDA on November 26, 2019 in presence of key officials from BEE, Sikkim Energy and Power Department and UNIDO. The cell is expected to facilitate the practice of regular energy auditing along with capturing the potential of energy saving in the clusters.
- The project, for next few months in State of Sikkim, is expected to provide technical assistance to more than 30 small and medium scale industries. This will, in-turn, bring the investment of more than Rs. 3 crores in Energy Efficiency and Renewable Energy.



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Delegates from Bangladesh visited BEE for General Discussion on Schemes like Perform, Achieve and Trade (PAT), Standards and Labelling (S&L) etc.

To learn India's experience in the field of Energy Efficiency, a panel of delegates from Bangladesh led by Md. Siddique Zobair, Member (EE&C) and other personnel from SREDA, Power Division and GIZ Bangladesh visited the office of BEE for general discussion with Abhay Bakre, DG BEE along with senior officers on schemes like Perform, Achieve and Trade (PAT), Standards and Labelling (S&L) etc.



National Workshop on Energy Conservation Guidelines for MSMEs

India is among the fastest growing economies and the MSME sector occupies a prominent position in the contribution to country's GDP. This also makes the share of MSME sector in India's industrial energy consumption very high. To help MSME sector become energy efficient and adopt best technologies, a National Workshop on "Energy Conservation Guidelines for MSMEs" was organized on 10th December 2019 by Bureau of Energy Efficiency in New Delhi. Bureau has developed the Energy Conservations Guidelines for MSME sector and same was released by Hon'ble Minister of MSME and Hon'ble Minister of state for Power during National Conclave on enhancing Energy Efficiency in MSMEs on September 23 - 24, 2019.

Shri Abhay Bakre, DG BEE, Dr Ajay Mathur, DG TERI, Shri R.K Rai, Secretary BEE, Mr Rene Van Berkel, Head Regional Office UNIDO, Shri Milind Deore, Director BEE and other eminent members graced the workshop.

Discussions on Energy Conservation Guidelines developed by BEE, various energy efficient initiatives, policies, introduction of new technologies and how these technologies and innovation could help MSME sector to be more energy efficient were carried out in the following sessions.

The workshop was a part of the National Energy Conservation Week which was celebrated from 9th to 14th December 2019.



HIGHLIGHTS OF THE QUARTER

(October - December 2019)

Workshop on “Facilitation Programme for Energy Service Companies (ESCOs) & End Users”

BEE organized an interactive workshop on “Facilitation Programme for Energy Service Companies (ESCOs) & End Users”, on 9th December 2019 in New Delhi, with support from EE & REM - State Designated Agency, Delhi and Tata Power DDL, for accelerating the uptake of Energy Efficiency Projects.

The workshop was attended by approx. 100 participants from ESCOs, AEAs, Industries, Commercial buildings and other establishments.

Discussions on case studies of successful ESCO based projects, best practices, various cross-cutting technologies across industries & establishments, and various policy initiatives of BEE to catalyze uptake of Energy Efficiency Projects through ESCO route were carried out.

The workshop was a part of National Energy Conservation Week which was celebrated from 9th -14th December 2019.



Refresher Course for Energy Managers & Energy Auditors

Bureau of Energy Efficiency (BEE) organized a two-day Refresher course Pan India from 16th November 2019 onwards. The objective of the refresher course was to renew Energy Manager & Energy Auditor certificates and to update them with the latest developments & advancements such as renewable energy, smart grid, smart cities, ISO 50001(2018 version), monitoring and verification, carbon footprint and energy efficient buildings. 1331 Energy managers have attended the refresher course phase 1 and more than 670 in ongoing phase 2.



Phase 1 refresher course training for energy managers has been completed and phase 2 is ongoing.



Delhi



Jaipur



Raipur

20th National Level Certification Examination for Energy Auditors and Managers

The results for the 20th National Certification Examination for Energy Managers & Energy Auditors were declared on 24th December 2019. The annual examination entitles one as energy Managers/Auditors for carrying out energy audits in various establishments and industries. The qualified, competent energy managers and auditors help in the implementation of Energy Efficiency projects and minimize energy wastage and its harmful impact.

Congratulations Toppers!

The Bureau of Energy Efficiency congratulates the toppers of 20th National Certification Examination for Energy Managers and Energy Auditors – September 2019
ENERGY AUDITORS 'Top Ten'



Rank	1
Reg No	EA-33809
Candidate Name	RAJAT AGARWAL
Marks	516/550
Organisation	Promethean Energy Pvt Ltd.



Rank	2
Reg No	EA-33889
Candidate Name	ASHWIN KRISHNA KALLIAT PANOLI
Marks	503/550
Organisation	Promethean Energy Pvt Ltd.



Rank	3
Reg No	EA-32674
Candidate Name	SENGGUTTUVAN P J
Marks	484/550
Organisation	NTPC Ltd.



Rank	4
Reg No	EA-33568
Candidate Name	RAHUL GUPTA
Marks	476/550
Organisation	NTPC Ltd.



Rank	5
Reg No	EA-32533
Candidate Name	MAYUR KUMAR GOYAL
Marks	472/550
Organisation	Jindal Steel and Power Ltd.



Rank	6
Reg No	EA-34136
Candidate Name	SWAPNIL NARAYAN LOTAKE
Marks	471/550
Organisation	First Esco India Pvt. Ltd.



Rank	7
Reg No	EA-33657
Candidate Name	SAYANTANI CHAKRABORTY
Marks	470/550
Organisation	GAIL(INDIA) Ltd.



Rank	8
Reg No	EA-32605
Candidate Name	KARANDEEP SINGLA
Marks	468/550
Organisation	HPCL-Mittal Energy Ltd.



Rank	8
Reg No	EA-34500
Candidate Name	ABHIJITH M R
Marks	468/550
Organisation	TECHURJA



Rank	9
Reg No	EA-33835
Candidate Name	SHRENIK SHREYAS SHAH
Marks	467/550
Organisation	Mechworldeco Pvt Ltd.



Rank	10
Reg No	EA-33853
Candidate Name	RASIYAWAN GURUSHARAN YADAV
Marks	465/550
Organisation	NTPC Ltd.

Congratulations Toppers!

The Bureau of Energy Efficiency congratulates the toppers of 20th National Certification Examination for Energy Managers and Energy Auditors – September 2019
ENERGY MANAGERS 'Top Ten'



Rank	1
Reg No	EM-11037
Candidate Name	NAVNEET KUMAR
Marks	383/450
Organisation	Meghalaya Power Ltd.



Rank	2
Reg No	EM-11151
Candidate Name	PRATEEK KUMAR SINGH
Marks	370/450
Organisation	Mahan Aluminium Industries Ltd.



Rank	3
Reg No	EM-10642
Candidate Name	AKASH LALJIBHAI KAVATHIYA
Marks	364/450
Organisation	Meghmani Finechem Ltd.



Rank	4
Reg No	EM-11434
Candidate Name	RAKESH PRASANNAN
Marks	358/450
Organisation	Kerala State Electricity Board Ltd.



Rank	5
Reg No	EM-10833
Candidate Name	SUBRAMANIAKUMAR P
Marks	349/450
Organisation	Bright Management Consultant



Rank	6
Reg No	EM-11475
Candidate Name	GAURAV RAMESHCHANDRA KHARVA
Marks	347/450
Organisation	ABB India Ltd.



Rank	7
Reg No	EM-10956
Candidate Name	PRASHANT TYAGI
Marks	346/450
Organisation	Indian Oil Corporation Ltd.



Rank	8
Reg No	EM-11356
Candidate Name	AYUSH KUMAR
Marks	343/450
Organisation	ITC Ltd. (Tobacco Div)



Rank	9
Reg No	EM-10941
Candidate Name	ANKUR BISEN
Marks	324/450
Organisation	Hindustan Petroleum Corporation Ltd.



Rank	10
Reg No	EM-11178
Candidate Name	HIMANSHU KUMAR DWIVEDI
Marks	323/450
Organisation	Anheuser Busch InBev India Pvt. Ltd.

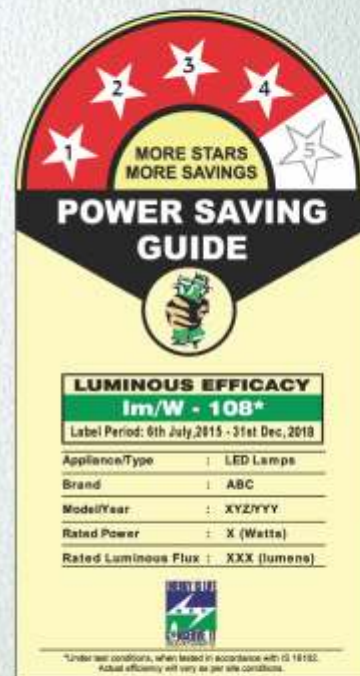
Bijli Bachao, Desh Banao

Keep your bill light.

Make your life bright!

Be a Smart Energy Consumer

Use Energy-Efficient LED Lamp



LED Bulb Features

- Long Life • Energy Efficiency • Ecologically Friendly • Durable Quality
- Zero UV Emissions • Design Flexibility • Operational in Extremely Cold or Hot Temperatures • Light Dispersment • Low-Voltage

Saving electricity will save the environment and enrich our future generations

Saving electricity goes beyond reducing your electricity bill. It is also about saving your environment, reducing your carbon footprint and ensuring energy is available for your children. So, the next time you see someone wasting electricity at your home or office, stop them. Do your part in overcoming the climate change challenge.



Ministry of Power
Government of India



एक कदम स्वच्छता की ओर



Bachat Ke Sitare
Dost Hamare



BUREAU OF ENERGY EFFICIENCY (BEE)

A statutory body under Ministry of Power, Government of India

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