

# बीईई लाईन

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Azadi Ka  
Amrit Mahotsav

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समाचार पत्रिका

# BEE LINE

NEWSLETTER





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**अस्वीकरण:** सर्वाधिकार सुरक्षित। इस पुस्तिका की सामग्री के इस्तेमाल के सभी अधिकार ऊर्जा दक्षता ब्यूरो (BEE) के पास सुरक्षित हैं। इसमें शामिल सामग्री का कोई भी भाग प्रकाशन की पूर्व अनुमति के बिना किसी भी माध्यम, इलेक्ट्रॉनिक, मैकेनिकल, फोटोकॉपी, रिकॉर्डिंग या अन्य किसी तरीके से इस्तेमाल नहीं किया जा सकता। इस सामग्री के अनधिकृत उपयोग पर कानूनी कार्रवाई की जा सकती है।

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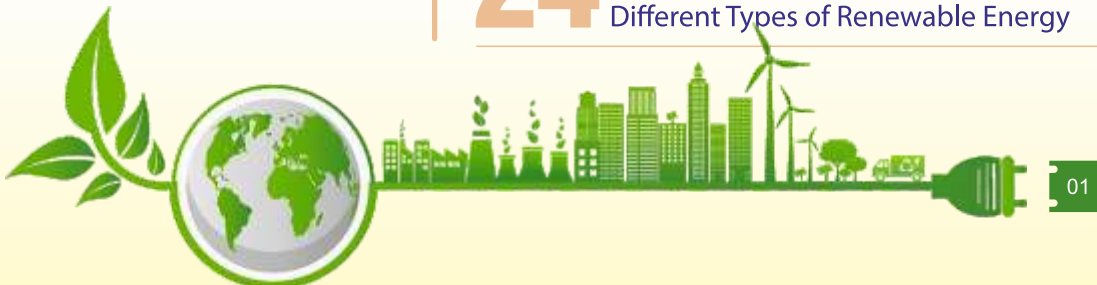
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**अभय बाकरे**

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**Abhay Bakre**

Director General, BEE

# DG Message

India is a major force in the global energy economy. Energy consumption has more than doubled since the last few decades propelled upwards by a growing population – soon to be the world's largest – and a period of rapid economic growth. With our collaborative efforts we can achieve a sustainable future by taking the next step towards energy efficiency.

One of the laudable steps taken by us towards conserving energy for the future is the launch of EV Yatra Portal. It was launched by Hon'ble President Droupadi Murmu on National Energy Conservation Day on 14th December 2022. It is important to understand that it is a top priority for all to ensure that future generations breathe in a pollution-free environment, progress well and live healthy lives because breathing in clean air is a basic human right.

India has declared a target of achieving net zero emission by 2070. Under the leadership of Hon'ble and beloved Prime Minister Narendra Modi, India has become a power surplus nation with a total installed electricity capacity of over four lakh MW. India, as the G20 Chair, is committed and leading the way in transforming and diversifying energy systems and advancing energy security and resilience.

BEE is firmly and stoutly committed to strengthening the Prime Minister's resolve to respond to the threat of climate change and pave the way for a better future by taking initiatives that will make an impact and significantly contribute towards energy efficiency.

We are committed to pave the way for a better future by taking initiatives that will make an impact and also contribute towards energy efficiency.





**आर.के. राय**  
सचिव, बीईई  
**R.K. Rai**  
Secretary, BEE

India is the third-largest producer and consumer of electricity worldwide, with an installed power capacity of 408.71 GW as of October 31, 2022. Growing population along with increasing electrification and per-capita usage will provide further impetus. Power consumption is estimated to reach 1,894.7 TWh in 2022. The Bureau of Energy Efficiency has carried out many initiatives in the last three months to spread awareness among people for using energy judiciously.

We believe that agriculture plays an integral part in shaping the country's economy. It is important to make the farmers aware about the judicious use of energy. On 19th December, a training workshop for farmers was organised by BEE. In that workshop, methods and tips to conserve energy and water were discussed.

A National Conclave on Accelerating Energy Efficiency in Micro, Small and Medium Sector Enterprises was also organised on 9th December 2022. The Conclave acted as a common platform for pooling knowledge and synergizing the efforts made by the projects to various stakeholders, deliberating on strategies and a roadmap to promote energy efficiency in the MSME sector.

On 7th December 2022, under the leadership of Hon'ble Minister Sh. R.K. Singh "Transmission System for Integration of over 500 GW RE Capacity by 2030" Plan in New Delhi was launched. This was a major step towards energy transition. Speaking on this occasion he said that "The plan we are launching today is in line with our commitments and it will also pave the way for adding the required generation capacity. We will not compromise on our economic growth. We are also going to meet our climate commitments. We will achieve our target of having 500 GW non-fossil fuel capacity by 2030. We are not apologetic about fuels we are using because we have to generate the required power and also because we are champions in the energy transition sector despite having 1/3rd per capita emissions compared to the global average."



# INDIA CHANGING THE ENERGY PARADIGM



Energy is the one of the most vital components. There cannot be any economic development and progress without energy today.

Proliferation of industrial canvas and incessant development led to global warming with rising temperatures impacting the world in more ways than one. For a safer world, countries need to ensure that carbon footprint is minimal and emissions are reduced to limit global warming to less than two degrees Celsius, which is not only desirable but achievable if consorted efforts are made by all stakeholders.

From fossil fuels, the world needs a smooth transition to non-fossil and natural sources to reduce the carbon emission and save the world from impending climate disasters.

Under the leadership of Prime Minister Narendra Modi, India has become one of the leading players in energy capacity building, conservation and transition. The nation ranks fourth in Renewable Energy Installed Capacity. By the end of October 2022, India had crossed its targets of developing energy from non-fossil sources. The country had developed nearly 172 GW, which is over 42 percent of the target of installed power capacity from non-fossil sources, which is no small feat by any stretch of imagination.

Leading the Climate Change movement from the front, India observes National Energy Conservation Day on December 14 every year to highlight its intent and seriousness in meeting environmental challenges.

On National Energy Conservation Day, 14 December 2022, Hon'ble President of India, Smt. Droupadi Murmu, graced the event and felicitated pioneering individuals and institutions with National Energy Conservation Awards (NECA) and National Energy



Efficiency Innovation Awards (NEEIA). School children were also felicitated by the Hon'ble President of India for winning the National Painting Competition for School Children.



Hon'ble President felicitated organizations with National Energy Conservation Awards for their endeavors in reducing energy consumption. For energy efficiency innovative practices, the Hon'ble President of India also gave National Energy Efficiency Innovation Awards to selected professionals from industries, building and transport sectors and students and research scholars category.

For National Painting Competition for School Children, more than 40 lakhs students participated from all over the country and the winners at National level were given prizes by the Hon'ble President of India.



In a first of its kind move in the world, BEE developed a mobile app for in-vehicle navigation for electric vehicles to locate nearest public EV charger. At the same time, it developed a website to disseminate information on various central and state-level initiatives to promote e-mobility in the country, and a web-portal to enable CPOs to register their charging details securely into the National Online Database.

The Hon'ble President launched the 'EV-Yatra Portal' which allows users to locate their nearest charger after registering on the app. This Mobile application can be easily downloaded on any type of smartphone from Google play store or Apple Store and installed conveniently.

On the occasion, the Hon'ble President of India said, "It is a top priority for all of us to ensure that future generations breathe in a pollution free environment, progress well and live healthy lives. Breathing in clean air is a basic human right. By protecting the environment, we can protect many human rights."

The Hon'ble President's remarks outline the framework with which the nation approaches clean environment and green energy. India in the COP-26, had given the message of 'Lifestyle For Environment' (LiFE) urging the world community to adopt an eco-friendly lifestyle. With G20 presidency, India is aptly showcasing LiFE and urging nations to respect nature and not wasting natural resources and take measures to enhance natural wealth. India is making efforts to move the entire world community to adopt such a lifestyle.



# "EV Yatra" web portal and Mobile Application

by- Sameer Pandita



Bureau of Energy Efficiency in its capacity as the Central Nodal Agency for coordinating deployment of Public EV charging infrastructure, has developed a Mobile Application to facilitate in-vehicle navigation to the nearest public EV charger, a website to disseminate information on various central and state level initiatives to promote e-mobility in the country and a web-portal to enable Charge Point Operators (CPOs) to register charging details securely into the National Online Database. The Web Portal and Mobile application was launched for public use on 14th December 2022 by the Hon'ble President of India.

All Public Charge Point Operators (private/ public entities) can register online and provide the required detailed information as per the online format available on the web-portal by logging onto the website [www.evyatra.beeindia.gov.in](http://www.evyatra.beeindia.gov.in). All entities operating Public EV Charging Stations, Battery swapping or Battery charging stations anywhere in the country may submit/ update the data online through the respective SNA for registration and updation of data on web portal developed by the Bureau of Energy Efficiency.

This web-portal provides the flexibility to CPOs to periodically update their charging station data in the National Online Database using open APIs as per convenience by downloading and consuming open APIs available on this web-portal.

The Mobile application titled "EV Yatra" has been designed and developed to facilitate in-vehicle navigation to the nearest public EV charger. This Mobile application can be easily downloaded on both iPhone and Android smart phones from Google play store and Apple Store and installed conveniently. The Mobile Application provides the availability of the Public EV-charging station connectors to the EV user in real time. It also has facility to allow slot booking and making payments which shall be activated in due course of time as the ecosystem matures.



## EV-Yatra Portal Homepage



## Locations of Public Charging Stations



## EV-Yatra Mobile Applications



## जलवायु परिवर्तन से निदान का PM मोदी मंत्र 'मिशन लाइफ'



जलवायु परिवर्तन जैसी पर्यावरणीय चुनौतियों के चलते जब पूरी दुनिया पर संकट के बादल छाए हुए हैं, ऐसे में प्रधानमंत्री नरेन्द्र मोदी का मिशन 'लाइफ' (लाइफ स्टाइल फार एनवायरनमेंट) यानी पर्यावरण अनुकूल जीवन शैली की सीख नई पीढ़ी के लिए बड़ा वरदान साबित हो सकती है। इस मिशन लाइफ का मंत्र प्रधानमंत्री नरेन्द्र मोदी ने 2021 में ग्लासगो में COP26 ('कांफ्रेंस ऑफ पार्टिज') में अपने संबोधन में दिया था। जबकि इसका विधिवत शुभारंभ प्रधानमंत्री श्री नरेन्द्र मोदी और संयुक्त राष्ट्र के महासचिव श्री एंटोनियो गुटेरेस ने गुजरात में स्टैच्यू ऑफ यूनिटी प्रांगण में किया था। प्रधानमंत्री ने इस दूरदर्शी और महात्वाकांक्षी मिशन की शुरुआत करते हुए कहा था, "इस अभियान के पीछे का विचार यह है कि हम ऐसी जीवनशैली अपनाएं जो हमारी धरती के अनुकूल हो। मिशन लाइफ अतीत से सीखता है, वर्तमान में संचालित होता है और भविष्य पर ध्यान केंद्रित करता है।" पर्यावरण के प्रति जागरूक जीवन शैली को बढ़ावा देने वाली प्रधानमंत्री के इस ग्लोबल पहल का विश्व के सभी देशों ने स्वागत और समर्थन किया। इस मिशन को लागू करने का सीधा लक्ष्य जलवायु परिवर्तन के असर को कम करने की कोशिश करना है। मिशन लाइफ की मदद से प्रकृति को कम से कम हानि पहुंचाने और उससे जुड़ने की कोशिश की जाएगी और जलवायु परिवर्तन के असर को रोक सके और बेहतर भविष्य का निर्माण करे। इसके लिए तीन नियम

**हम ऐसी जीवनशैली अपनाएं जो हमारी धरती के अनुकूल हो। मिशन लाइफ अतीत से सीखता है, वर्तमान में संचालित होता है और भविष्य पर ध्यान केंद्रित करता है।'**



बनाए गए हैं— रिड्यूज, रीयूज और रिसायकल। मिशन लाइफ का उद्देश्य स्थिरता के प्रति हमारे सामूहिक दृष्टिकोण को बदलने के लिए त्रिस्तरीय रणनीति का पालन करना है। इसमें सबसे पहले व्यक्तियों को अपने दैनिक जीवन में सरल लेकिन प्रभावी पर्यावरण के अनुकूल कार्यों का अभ्यास करने के लिए प्रेरित करना है। दूसरा, उद्योगों और बाजारों को बदलती मांग (आपूर्ति) के लिए तेजी से प्रतिक्रिया देने में सक्षम बनाना और तीसरा दीर्घकालीन खपत और उत्पादन दोनों का समर्थन करने के लिए सरकार और औद्योगिक नीति को प्रभावित करना शामिल है।



भारत उन देशों में शामिल है जिसने जलवायु परिवर्तन का असर रोकने का लक्ष्य तय किया है। देश में हर साल प्रति व्यक्ति 1.5 टन कार्बन उत्सर्जन

हो रहा है। वहीं दुनिया में यह आंकड़ा 4 टन है। भारत दुनिया का चौथा सबसे बड़ा देश है कि जिसकी नवीकरणीय ऊर्जा क्षमता अधिक है। देश में पवन और सौर ऊर्जा का बड़े स्तर पर प्रयोग किया जा रहा है। मिशन के तहत इन ऊर्जा का प्रयोग बढ़ाया जाएगा ताकि कार्बन का उत्सर्जन कम किया जा सके। पिछले

**पिछले 7 से 8 सालों में नवीकरणीय ऊर्जा की क्षमता 290 फीसदी तक बढ़ी है। इसके अतिरिक्त, 40 फीसदी तक गैर-जीवाश्म से ईंधन तैयार करने की क्षमता में 40 फीसदी तक इजाफा हुआ है।**

7 से 8 सालों में नवीकरणीय ऊर्जा की क्षमता 290 फीसदी तक बढ़ी है। इसके अतिरिक्त, 40 फीसदी तक गैर-जीवाश्म से ईंधन तैयार करने की क्षमता में 40 फीसदी तक इजाफा हुआ है। इतना ही नहीं नेशनल हाइड्रोजन मिशन के जरिए पर्यावरण अनुकूल ऊर्जा को तैयार किया जा रहा है। जो भारत को नेट जीरो का लक्ष्य हासिल करने में मदद करेगा। इस मिशन के जरिये ऊर्जा क्षेत्र के उन उपायों पर अधिक केंद्रित किया जाएगा जो कार्बन के उत्सर्जन को घटाने का काम करेंगे। यही इस मिशन का लक्ष्य है।

इस मिशन की शुरुआत के साथ ही भारत ने पूरी दुनिया को संकेत दे दिया कि वह जलवायु परिवर्तन जैसे गंभीर मुद्दे पर संजीदा है और इस दिशा में गंभीरता से काम कर रहा है। प्रधानमंत्री नरेंद्र मोदी का साफ संदेश है कि अगर इंसान अपनी जीवनशैली में थोड़ा भी बदलाव करे तो पर्यावरण को ऐसे बड़े खतरे से बचाया जा सकता है।



## Capacity Building of DISCOMs program



Various workshops have been organised from October to December. The purpose of these workshops was to encourage DISCOMs to implement at least 50% of the identified DSM measures mentioned in the DSM action plans. All these DSM plans were prepared on the basis of load survey conducted by the agency.

A series of 59 One Day Awareness Workshops to be organized at beneficiary DISCOMs. DSM action plans were prepared based on load survey done by BEE through engaged agency in association with State Designated Agency. As of December 2022, only 33 workshops have conducted under “Capacity Building of DISCOMs”

9 workshops on DSM action plans at 9 DISCOMs was also organized in association with concerned State Designated Agency during Oct. - Dec., 2022. The senior officials from DISCOMs, State Electricity Regulatory Commission, JERCs, implementing agency and power department/energy department officials have attended these workshops.



One-day Awareness Workshops have been conducted at the following 9 DISCOMs namely

- A. Bengaluru Electricity Supply Company Limited, Karnataka
- B. Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Limited
- C. Madhya Pradesh Paschim Kshetra Vidyut Vitran Company Limited
- D. Madhya Pradesh Poorv Kshetra Vidyut Vitran Company Limited
- E. Himachal Pradesh State Electricity Board Limited
- F. West Bengal State Electricity Distribution Company Limited - North
- G. West Bengal State Electricity Distribution Company Limited - South
- H. Assam Power Distribution Company Limited
- I. Dadra and Nagar Haveli and Daman and Diu (DNH&DD) Power Distribution Corporation Limited

### Glimpses of the photographs of said workshops



About 270 senior officials from SDA, BEE, DISCOMs and SERCs/JERCs attended this workshop for a one-to-one discussion on the effective implementation of activities under BEE's Capacity Building of DISCOMs program.



## जी-20: ऊर्जा संरक्षण में भारत तय करेगा एजेंडा



जी-20 की अध्यक्षता मिलने के बाद भारत पर्यावरण चुनौतियों में खुद को आदर्श बनाकर प्रस्तुत करना चाहता है, ताकि इस संगठन में शामिल बाकी देशों को भी सकारात्मक संदेश दिया जा सके। यह पहली बार है जब भारत दुनिया के प्रभावशाली देशों का एजेंडा तय करेगा। अभी तक दुनिया के विकसित देश ही एजेंडा सेट करते थे। इसी प्रयास में ऊर्जा दक्षता और संरक्षण के साथ के देश के कोने-कोने तक ऊर्जा स्वतंत्रता एवं कार्बन उत्सर्जन में कमी लाने की मुहिम शुरू हो चुकी है। इस मुहिम में ऊर्जा दक्षता ब्यूरो (बीईई) देश में ऊर्जा संरक्षण के प्रति जागरूक कर भारतीय अर्थव्यवस्था की अत्यधिक ऊर्जा मांग को कम करने में महत्वपूर्ण भूमिका निभा रहा है। भारत ने पहले ही क्लाइमेट चेंज समिट के बाद बड़े लक्ष्य निर्धारित किए हैं। इनमें 2047 तक ऊर्जा स्वतंत्रता हासिल करना एवं 2070 तक कार्बन उत्सर्जन शून्य तक ले आना शामिल है। प्रधानमंत्री नरेंद्र मोदी ने कहा था "वैश्विक विकास के लिए भारत की ऊर्जा सुरक्षा महत्वपूर्ण है, क्योंकि यह दुनिया की सबसे तेजी से बढ़ती अर्थव्यवस्था है। हमें ऊर्जा की आपूर्ति पर किसी भी प्रतिबंध को बढ़ावा नहीं देना चाहिए और ऊर्जा बाजार में स्थिरता सुनिश्चित की जानी चाहिए।"

भारतीय जी-20 की अध्यक्षता की थीम 'एक पृथ्वी, एक परिवार, एक भविष्य' 2023 इन्फ्रास्ट्रक्चर एजेंडे का मकसद स्पष्ट करती है। यह थीम एकसमान विकास के संदेश पर जोर देती है। यही नहीं भारत ने One Sun, One World, One Grid के मंत्र के साथ विश्व में Renewable Energy revolution का आह्वान किया है। जी-20 देशों को शीघ्र ऊर्जा परिवर्तन के लिए कदम उठाने चाहिए, जिसके बिना पृथ्वी के तापमान को पूर्व-औद्योगिक स्तरों से 1.5 डिग्री सेल्सियस से ऊपर बढ़ने से रोकने के लक्ष्य को प्राप्त नहीं किया जा सकता है। भारत का जी-20 एजेंडा समावेशी, महत्वाकांक्षी, कार्रवाई-उन्मुख और निर्णायक होगा।

पीएम ने कहा; "भारत स्वच्छ ऊर्जा और पर्यावरण के लिए प्रतिबद्ध है। 2030 तक हमारी आधी बिजली नवीकरणीय स्रोतों से उत्पन्न होगी। समावेशी ऊर्जा परिवर्तन के लिए विकासशील देशों को समयबद्ध और किफायती वित्त और प्रोद्योगिकी की सतत आपूर्ति आवश्यक है" भारत जी-20 के अध्यक्षता के दौरान इन मुद्दों पर वैश्विक सहमतिक के लिए काम करेगा।



## Launch of BEE's Online Facilitation Centre

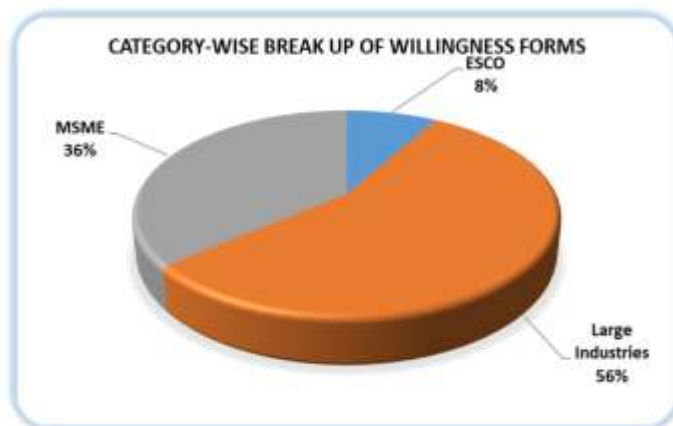


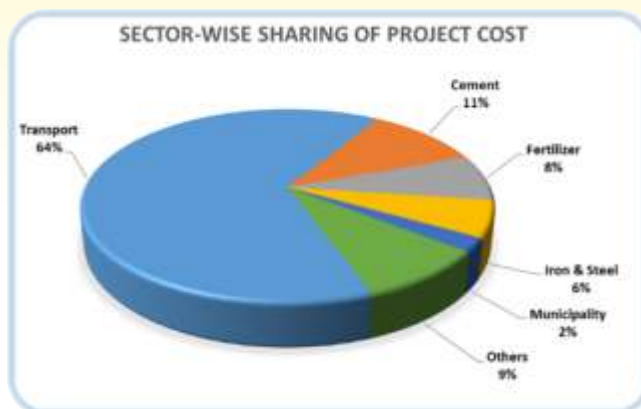
▲ "Launching user manual for BEE's online FC on 28.11.22"

Bureau of Energy Efficiency (BEE) has set-up an Online Facilitation Centre for encouraging and up-scaling Energy Efficiency Financing in the country. This online portal ADEETIE (<https://www.adeetie.beeindia.gov.in/>) has been launched on 28th November 2022. Borrowing units can fill online application form seeking for funding support for implementation of Energy Efficiency projects in their facility.

The objective of the Facilitation Centre is to collect the willingness forms and spread awareness of BEE's financing schemes among various beneficiaries like large industries /DCs under the PAT Scheme of BEE, MSMEs, Commercial and Institutional buildings, Municipalities, Corporations, and Commercial establishments, prepare the list of Energy Efficient (EE) Technologies; and develop an Online Platform for mobilizing EE financing in the country. BEE has on boarded M/s Darashaw and Company Private Limited as consultant for setting up this Facilitation Centre.

Till 31st December 2022 Facilitation Centre has conducted 11 workshops/webinars to create awareness amongst various stakeholders such as Industries, MSMEs, Commercial and Institutional buildings, Municipalities, Corporations, and Commercial establishments





regarding energy efficiency financing.

Facilitation Centre has received willingness forms for more than 120 projects from various industries including large industries (PAT DCs/Non-DCs), MSMEs and ESCOs having total Project Cost over Rs. 2500 crore. Till date 5 projects from various

sectors such as food processing, cold storage, transportation and manufacturing have been financed by Banks/ NBFCs. Their category-wise break-up and sector-wise project cost sharing is provided as below:

In consultation with technical committee, BEE has issued a list of 116 EE Technologies for financing.

Till 31st December 2022 following 22 Banks/ NBFCs are registered with BEE's Facilitation centre to support funding requirement of various beneficiaries.

Sl. No.	Banks /NBFCs	Sl. No.	Banks /NBFCs
1	Bank of Baroda	12	IndusInd Bank
2	Bank of India	13	IREDA
3	Canara Bank	14	Karnataka Bank
4	Central Bank of India	15	Kotak Mahindra Bank
5	cKers Finance	16	PFC
6	Exim Bank	17	Punjab & Sind Bank
7	Federal Bank	18	Punjab National Bank
8	HDFC Bank	19	SBI
9	HSBC	20	SIDBI
10	IIFCL	21	Tata Capital
11	Indian Bank	22	Yes Bank

**For more queries on Facilitation Centre, please contact on:**  
**Phone No.:** 011- 26766813, 26766700 (09:30 am- 06:00 pm)  
**Email ID:** [facilitation-centre@beeindia.gov.in](mailto:facilitation-centre@beeindia.gov.in)



## A PROSPEROUS PHASE IN OCTOBER FOR ENERGY EFFICIENCY

### 2-day event on Technology Exhibition & Vendor Interface



BEE in collaboration with UNIDO India organised a two-day event on Technology Exhibition and Vendor Interfacing at Gandhinagar, Gujarat for SMEs in the dairy sector. The event acted as a platform for knowledge exchange for energy-efficient technologies, which could drive the future of the dairy industry toward energy efficiency.



### MoA signed between BEE and NPTI for capacity building of FIs

A MoA was signed between BEE and NPTI to conduct Training Program for Financial Institutions on Energy Efficient Financing. The purpose of the training is to build capacity of project financing teams and other concerned departments of FIs to evaluate energy efficiency proposals and build awareness about EE financing schemes.



## ► BEE-IGEN SDA Partnership Summit

BEE-IGEN SDA Partnership Summit was organised on October 11 and 12, 2022 in Goa to review the physical and financial progress of State Designated Agencies (SDAs) and to discuss the Zone-wise and State-wise Energy Efficiency Action Plan. The program was inaugurated by Secretary (Power), Goa. Keynote address was given by Secretary, BEE.



“ आने वाली पीढ़ियों के लिए - प्रदूषण से मुक्त पर्यावरण में सांस लेने, प्रगति करने और स्वस्थ जीवन बिताने की परिस्थितियां सुनिश्चित करना हम सबकी सर्वोच्च प्राथमिकता है।  
- श्रीमती द्रौपदी मुर्मू, राष्ट्रपति, भारत ”



## AN ENERGISED PERFORMANCE IN NOVEMBER

### Review of Energy Schemes

Shri Ajay Tewari, Additional Secretary, Ministry of Power visited BEE's office on October 31, 2022, to review the schemes for promoting energy-efficient activities in different sectors of the Indian economy.



### Signing of MoU between BEE and Small Industries Development Bank of India

BEE signed an MoU with Small Industries Development Bank of India (SIDBI) on November 3, 2022 to promote energy efficiency for financing MSMEs and also explore IoT-based solutions, Greening MSMEs, capacity building of various stakeholders, etc.



## ► Investment Bazaar for Energy Efficiency Financing



BEE in collaboration with the Arunachal Pradesh Energy Development Agency organised the “Investment Bazaar for Energy Efficiency Financing” on November 9, 2022 at Itanagar. Representatives from SIDBI, Canara Bank, Bank of Baroda, and MSMEs attended the workshop. SIDBI delivered a presentation on the Green Financing Scheme and the PRSF scheme.



## ► One-day conference on Investment Bazaar for Energy Efficiency

A one-day conference on Investment Bazaar for Energy Efficiency was organised by APSECM, in association with BEE on November 23, 2022 at Visakhapatnam. 5 bankable projects on energy efficiency of worth around ₹50 cr and 2 renewable projects of worth ₹1,200 cr were highlighted during the meet.



## UNLIMITED TONNES OF ACHIEVEMENT IN DECEMBER

### ▶ National workshop on ESCerts Trading Process



BEE organised a National workshop on ESCerts Trading Process, determination of floor price, and ESCerts fungibility under the PAT scheme on November 25, 2022 in New Delhi. Shri Milind Deore, Director, BEE inaugurated the session. A special address was delivered by Dr Ashok Kumar, DDG, BEE and Shri Abhay Bakre, DG, BEE, gave the keynote address during the event. PwC, POSOCO, IEX, and PXIL gave their presentations.

“

Convergence between economy, ecology  
and energy should define our future

”

- Shri Narendra Modi, Prime Minister, India



## ► Inauguration of Exhibition on Energy Efficient Technologies



Shri Krishan Pal, Hon'ble Minister of State for Power and Minister of State for Heavy Industries, in the august presence of Shri Bhanu Pratap Singh Verma, Hon'ble Minister of State, inaugurated the Exhibition on Energy Efficient Technologies. During the event, the following documents were released:

- Draft Report on Policy and Regulatory Framework for MSMEs
- Roadmap for Accelerating energy efficiency in selected MSMEs sectors
- Launch of Unified navigation tool on energy efficiency



## ► Energy Efficiency Conclave



Energy Efficiency Conclave for Foundry Sector was held in Coimbatore by BEE and UNIDO India under the GEF project. 257 foundries in 5 MSME clusters invested ₹49 cr in 512 solutions which helped to save more than ₹33 cr and lead to a total energy savings of 2900 tonnes and reduced more than 25,000 tonnes GHG emissions.



## ► Second Workshop for training Financial Institutions



BEE in association with the National Power Training Institute (NPTI) organised a second workshop (third phase) for training Financial Institutions on energy efficiency financing on December 15 and 16, 2022 at Durgapur, West Bengal. The purpose of the workshop was to cover various important aspects of energy efficiency projects as well as energy efficiency schemes of BEE to help officials from banks/ NBFCs to evaluate the loan proposals for implementing energy efficiency measures.



## BUREAU PARTICIPATED IN INDIA INTERNATIONAL TRADE FAIR-2022



The Ministry of Power along with Bureau of Energy Efficiency and other Central Public sector Enterprises (CPSEs) participated at the 41st India International Trade Fair (IITF), held at Pragati Maidan in New Delhi from November 14 to 27, 2022. The Power Pavilion was set up in Hall no. 5 with the theme: 'Ujjwal Bharat, Ujjwal Bhavishya'.

Shri Alok Kumar, Secretary, Ministry of Power, inaugurated the pavilion on November 15'2022. The pavilion exhibited the various achievements and new initiatives of the ministry. BEE in its endeavor to promote energy conservation displayed a 3D model of Smart House. This model had shown feature like Energy efficient appliances, Efficient Building Envelop, Sensor based lighting, EV charging option, smart meter, solar panel etc.



Furthermore, keeping in mind the huge footfall at the IITF various public engaging activities like 'Temple Run' gaming, a Quiz Competition on Power Sector and a 360 degree camera view were organized for public engagement. 'Power Warrior' – the mascot for the Power Pavilion –remained an attractive feature among the visitors, who were also engaged by the LED Information panels while stepping on the marked area.

A lot of curious visitors expressed interest in understanding the concept of 3D Smart Home. These visitors were intrigued by the changing dynamics of power and energy conservation.

The BEE also distributed LED Pens to the visitors at the Power Pavilion during the fortnight-long IITF 2022. The information about the IITF and Power Pavillion were also sharreed through various Social media handles of BEE. .



## LAUNCH OF TRAINING PROGRAMME FOR FIs ON EE FINANCING (PHASE III)



Under the Azadi Ka Amrit Mahotsav, BEE launched phase-III of Training Programme for FIs on EE financing. NPTI has been engaged to organize series of two day residential training workshops across India for capacity building of financial institutions. Deputy Director General - Dr Ashok Kumar inaugurated this launch event in the presence of DG-NPTI, Executive Director- PFC, Director - BEE Ms Vineeta Kanwal at NPTI-Faridabad. This first training workshop is being organized in NPTI centre, Faridabad on 17-18 November 2022 and 32 trainees from SBI, SIDBI, Canara Bank, UCO Bank, Central Bank of India, Bank of Baroda, PNB, HPSCB and Indian Bank are participating in this workshop. Aim of this training programme is to equip the bankers with knowledge of EE programmes, EE technologies, evaluation methodologies for technical & financial evaluation of EE projects, and impact of energy efficiency in climate change mitigation.

During the inaugural session, DDG-BEE stressed upon the individual responsibility and contribution in varied capacities towards reducing the impacts of climate change. He also urged FIs to create a separate portfolio for energy efficiency. DG - NPTI stated that all their training centres have already initiated process of implementing energy efficiency measures in their buildings. Shri P K Sinha, Executive Director, PFC informed that PFC has been designated by MoP as the nodal agency for accelerating energy efficiency financing in India. PFC has been proactively working to support ecosystem for financing renewable energy and energy efficiency projects.

During the site visit, as a part of training workshop, the trainees visited a textile unit in Faridabad to witness the EE measures implemented in the unit and understood investment potential in textile sector as well as importance of energy efficiency and water conservation in textile units.



## DIFFERENT TYPES OF RENEWABLE ENERGY



### SOLAR ENERGY

Solar energy is radiation from sun that can be captured and converted into useful thermal energy or electricity.

### WIND ENERGY

Wind energy is a clean form of energy that transforms the power of an inexhaustible wind resources into electricity.



### HYDROELECTRIC ENERGY

Hydroelectric energy is one of the cleanest and most widely used renewable energy sources worldwide that uses the power of moving water to generate and store electricity.

### TIDAL ENERGY

Tidal Energy is a form of renewable source of energy which is produced by the surge of ocean waters during the rise and fall of tides.



### GEOTHERMAL ENERGY

Geothermal Energy is the heat produced deep in the Earth's core. Geothermal energy is a clean, renewable resource that can be harnessed for use as heat and electricity.







## **BUREAU OF ENERGY EFFICIENCY (BEE)**

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