

International Energy Festival Kerala 2024: Leading the Way Towards a Greener Future

The International Energy Festival of Kerala (IEFK) 2024, organized by the Energy Management Centre (EMC) – Kerala, took place on 7th, 8th, and 9th February 2024 at Tagore Theatre, Thiruvananthapuram in commemoration of the 28th anniversary. The event marked a significant milestone in advancing discussions on “Energy Transition and Climate Change.” The three-day festival was inaugurated by Shri. A N Shamseer, Honourable Speaker of Kerala, in the presence of Shri. Milind Bhikanrao Deore, Secretary, Bureau of Energy Efficiency, Dr. T. N. Seema, Coordinator, Navakeralam Karma Padhathi, Shri. Vinod G, Chief Electrical Inspector, Govt. of Kerala, Dr. R. Harikumar, Director, EMC-Kerala, and Shri. B. V. Subhash Babu, Registrar, EMC-Kerala. The inaugural session also featured a message from Shri. Pinarayi Vijayan, the Hon’ble Chief Minister of Kerala and featured a video message from Shri. K. Krishnankutty, the Hon’ble Minister for Electricity. Shri. Abhishekh Sharma, the Director of BEE, graced the gathering with his presence and shared invaluable insights on the subject of energy transition. He elaborated on the significant



Hon'ble Speaker presenting the Kerala State Energy Conservation Award 2023 booklet to the Secretary of the Bureau of Energy Efficiency (BEE)

activities undertaken by BEE in the field, enhancing the understanding of the organization’s crucial role in driving the transition towards sustainable energy. Additionally, the Kerala State Energy Conservation Awards 2023 were distributed to awardees by the Honourable Speaker following the inaugural session, further highlighting the state’s commitment to recognizing and promoting energy conservation efforts.

Being the first of its kind organized by any state designated agency in India, the three-day event brought together a diverse array of stakeholders, including experts, policymakers, and industry leaders. The event provided a platform for renowned organizations such as the World Resources Institute India, India Smart Grid Forum, Center for Study of Science, Technology and Policy (CSTEP), Vasudha Foundation, Modern Energy Cooking Services Programme (MECS), Global Green Growth Institute (GGGI), Energy Efficiency Services Limited (EESL), PRAYAS Pune, Bhabha Atomic Research Centre (BARC), Indian Space



Kerala State Energy Conservation Award 2023 Winners

Research Organisation (ISRO), International Copper Association India (ICA), Alliance for an Energy Efficient Economy (AEEE), Centre for research on the Economics of Climate, Food, Energy and Environment (CECFEE) etc. to share invaluable insights on critical topics like Energy Transitions, Climate and Energy Efficiency, and Innovative Green Energy Technologies. These discussions fostered a deeper understanding of the challenges and opportunities in transitioning



Shri. Milind Bhikanrao Deore(left), Secretary, BEE and Shri. Abhishek Sharma(right), Director, BEE, addressing the gathering

Webinars

Green Growth through Energy Efficiency

A webinar was organised in association with the Global Green Growth Institute (GGGI), an international intergovernmental organization to commemorate the Energy Conservation Day 2023 on “Green Growth through Energy Efficiency” on 14th December 2023. This short webinar had the leading energy experts from across India, and shared their experiences, best practices, and the way forward to achieve green growth in India. Keynote address was given by Mr. Jiwesh Nandan, IAS. And a panel discussion was held and is moderated by Mr Soumya P Garnaik. Mr. Rajeev Kharyal, Head (Customer Services), Tata Power Delhi Distribution Ltd, Mrs. Savitri Singh, GM (Tech), Energy Efficiency Services Limited (EESL), Mr. Paraman Radhakrishnan, Director, Devki Energy Consultancy Pvt. Ltd, Ms. Neha Dhingra, Program Manager, CLASP, Ms. Karishma Bist, Additional Director, FICCI were the Panel members. The webinar attracted 230 officials from various industries, highlighting the keen interest and commitment to sustainability in the Indian business community.

Energy Conservation Opportunities in Compressed Air system and Pumping system

PAT Cell has organized a webinar, in association with Chhattisgarh Renewable Energy Development Agency (CREDA) for officials of DCs & Non-DCs on “Energy Conservation Opportunities in Compressed Air system and Pumping system” on 15th December 2023, Friday from 03:00 PM to 05:00 PM through virtual mode. Mr Mahesh Gajakosh, Godrej & Boyce Mfg. Co. Ltd., Mr Akshay Damle, WILO Mather and Platt Pumps Pvt. Ltd. were the speakers. About 153 participants from various DCs and industries attended the session.

Introduction to Carbon Offset & REC project for Industries

FICCI PAT Cell has organized a webinar, in association with Chhattisgarh Renewable Energy Development Agency (CREDA) for officials of DCs & SMEs on “Introduction to Carbon Offset & REC project for Industries” on 22nd December 2023. One and Half hour session was handled by Shri Atul Nangare, Infinite Solutions. Around 180 officials from different industries attended the webinar.

Awareness Program on Energy Efficiency Financing and Opportunities for Scale-up

Bureau of Energy Efficiency has organized an “Awareness Program on Energy Efficiency Financing and Opportunities for Scale-up” on 22 December 2023, in online mode. The objective of this webinar was to provide a platform to financial institutions, industries, ESCOs, Industry associations and Academic Institutions for interaction and capacity building on energy efficiency technologies and its financing. Ms Nupur Ahuja and Ms Richa gave introduction about BEE’s Financing Initiatives and about Facilitation Centre. Technical sessions were handled by Mr Prathima Soni, Sr Manager, Schneider Electric, and officials from CII/ICF, SIDBI, Canara Bank of India.

DHDT Charge Heater IGH101 Revamp for Efficiency Improvement at BPCL Kochi Refinery

BPCL Kochi Refinery is one of the DC in PAT Scheme and is very proactively taking very effective measures for energy efficiency in the plant. Here, you can explore how BPCL strategically addressed one of their challenges while integrating energy-efficient solutions.

Key Concerns

The Diesel hydrotreating unit (DHDT) charge heater (IGH101), initially designed as a forced draft heater with LP steam superheater coils as the sole heat recovery method for a 5.4 MMkcal/hr absorbed heat duty, faced an increased duty demand of 20MMkcal/hr due to a feed pattern change, operating continuously at maximum rated duty with an efficiency of only 82%. The steam superheater coil temperature was crossing the allowable limits bottlenecking the unit throughput.

Implemented Solution

Revamping the heater which included introduction of additional convection coils, installation of Induced Draft fan, Plate type air preheater and modification of Forced Draft fans and burners.

Revamped Heater



Outcome of Revamping

- The stack temperature came down from pre revamp value of 420 deg C to 160 deg C.
- The constraints of steam superheater coils were eliminated by the introduction of additional convection coils.
- Achieved an efficiency of 91.3%, an improvement by more than 9% which is equivalent to a fuel saving of 230 kg/hr.
- This revamp has helped to run the DHDT unit consistently at a charge of 600TPH against the design charge of 537.5 TPH, enhancing the diesel production capacity of the refinery.

Economic aspect

- The project cost amounted to INR 18.5 crores
- Expected to achieve payback within 3 years of operation on account of fuel saving alone.

New ID fan and APH



Offset Mechanism under CCTS

Under the "Offset mechanism" the non-obligated entities (other than DCs under PAT) can register their projects for accounting greenhouse gases emission reduction or removal or avoidance for issuance of Carbon Credit Certificates". The Bureau shall identify the sectoral scope and methodologies to be used under offset mechanism with the support of respective technical committees. The Bureau on the recommendation of National Steering Committee for Indian carbon market and after approval of the Central Government, shall publish sectoral scope and methodologies from time to time. The non-obligated entities can register their projects as per the published sectoral methodologies for greenhouse gases emission reduction or removal or avoidance for seeking issuance of Carbon Credit Certificates. For the amendment notification please follow the Link <https://egazette.gov.in/WriteReadData/2023/250750.pdf>.



One day workshop on ENERGY EFFICIENT COLD CHAIN TECHNOLOGIES

Trivandrum

Kochi

05 March 2024

07 March 2024

Hotel Apollo Dimora, Trivandrum

Hotel PGS Vedanta, Kochi

Energy Management Centre (EMC) Kerala along with Bureau of Energy Efficiency (BEE) and Federation of Indian Chambers of Commerce & Industry (FICCI) as knowledge partner is organising a One-day workshop on Energy Efficient Cold Chain Technologies to be held on 05th March 2024, Hotel Apollo Dimora, Trivandrum and 7th March 2024, Hotel PGS Vedanta, Kochi.

The objective of the one-day workshop is to promote Energy Efficiency in cold energy in Kerala and to augment the response of the industries and other major consumers for Energy which would reduce their manufacturing/processing cost of production and to increase the demand for energy efficient products and adoption by the industries to reduce energy consumption & carbon emission.

[For More details](#)

Mr. Renjith R

Assistant Director, FICCI KESC

+919895392275

renjith.r@ficci.com/mn.girish@ficci.com

There is no registration fee; however prior registration is mandatory and official intimation will follow to the approved participants

TARGET AUDIENCE

- Dairy Units • Agricultural Producers • Energy Auditors • Energy Efficient Cold Equipment Manufactures and suppliers • Ice Cream Manufactures • Frozen Seafood Processors • Chicken, Egg and Meat Processors • MSME's • Industrial Cluster

For Registration



Trivandrum



Kochi



A regional workshop on "PAT Scheme and its Enforcement" conducted on 15th February 2024, at The Capitol Hotel in Bengaluru for Designated Consumers (DCs) from south zone

PAT BULLETIN

PAT CELL - EMC KERALA

JANUARY-FEBRUARY 2024

Administration

Dr. R Harikumar

Director, EMC-Kerala

Mr. Johnson Daniel

Head NMEEE & DSM, EMC-Kerala

Mr. Sarath Krishnan S

Energy Technologist

EMC-Kerala

Execution Team

Managed by FICCI

Mr. Shashidhar Dhareshwar

Accredited Energy Auditor

Mrs. Dona Babu

Financial Expert

Regional Execution Team

Mr. Aswin Mohan

Energy Auditor

Mob: 9747615494

Email: em.kerala@ficci.com

Mrs. Divine Angel J D

Project Associate

Mob: 8075790589

Email: pa.kerala@ficci.com

