



The state-level inauguration of the 'Kulirma' summer campaign was held at the Energy Management Centre (EMC), Thiruvananthapuram, on March 18, 2025.

'Kulirma' is a project aimed at promoting cool roof technologies in buildings to reduce indoor heat and thereby decrease the usage of fans and air conditioners. The campaign is jointly organized by the Energy Management Centre and the Kerala State Climate Change Adaptation Mission (KSCCAM).

Hon. Electricity Minister Shri K Krishnankutty inaugurated the event online. The function was presided over by Additional Chief Secretary (Power) Shri K R Jyothishil IAS.

EMC Director Dr. R Harikumar delivered the welcome address, and Administrative Manager of K S C C A M Shri Siji M Thankachan delivered the keynote address. EMC Joint Director Shri Dinesh Kumar A N delivered the vote of thanks.

Following the inauguration, Shri Fahad Marzook, Hazard Analyst at the Kerala State Disaster Management Authority, gave a presentation on the state's Heat Action Plan. EMC Energy Technologists Shri Tomson Sebastian and Shri Anoop Surendran conducted sessions on the Kulirma and Angan Jyoti projects. A discussion on the implementation of these initiatives saw the participation of 132 representatives from various NGOs.

Bureau of Energy Efficiency Unveils Specialized Certification Program for Energy Auditors (Buildings) to Strengthen Energy Efficiency

The Bureau of Energy Efficiency (BEE), under the Ministry of Power, Government of India, has introduced a new certification program for Energy Auditors (Buildings), marking a major step forward in strengthening energy efficiency initiatives in the building sector. Currently released as a draft regulation, the program is open for stakeholder feedback before its finalization. This initiative aims to develop a dedicated pool of professionals with expertise in evaluating and enhancing energy performance in commercial and residential buildings. With the building sector being one of the highest consumers of energy in India, this certification is expected to play a key role in achieving the country's sustainability and Net Zero goals. The program is designed for architects, engineers, and

sustainability professionals with relevant experience, and will cover key areas such as ECBC and NBC codes, HVAC systems, lighting, building envelope, renewable energy integration, and energy simulation tools. As a draft framework, it outlines the core components and eligibility criteria, while the detailed examination pattern and schedule will be announced upon final notification. Upon successful completion, candidates will be recognized as Certified Energy Auditors (Buildings) and will be eligible to undertake energy audits in accordance with BEE guidelines.

This initiative supports India's commitment to sustainable urban development and is a valuable opportunity for professionals to contribute to the nation's green transition.

Certification Training Programme on Low-Carbon Building Transition Held in Kochi

Continuing efforts to promote sustainable building practices and low-carbon development in India, the Federation of Indian Chambers of Commerce and Industry (FICCI), in association with the Energy Management Centre (EMC) – Kerala and the Kerala Bureau of Industrial Promotion (K-BIP), organized a Certification Training Program on Low-Carbon Building Transition on 14th March 2025 at Hotel Grand, MG Road, Kochi.

This initiative was supported financially by the Global Green Growth Institute (GGGI) under the framework of the "Asia Low-Carbon Building Transition (ALCBT)" project, which aims to assist Asian countries in accelerating the shift towards energy-efficient and environmentally sustainable building sectors.

The training program was formally inaugurated by



Shri K Gopalakrishnan IAS, Managing Director, Vytilla Mobility Hub Society, who emphasized the importance of adopting low-carbon strategies in the construction and building sector to meet India's climate commitments and improve urban sustainability.

Stakeholder Consultation Workshop on Renewable Consumption Obligations (RCO)

The Bureau of Energy Efficiency (BEE) successfully organized a Stakeholder Consultation Workshop on Renewable Consumption Obligations (RCO) on 24th March 2025 in Goa. The workshop brought together key stakeholders and policymakers to discuss the implementation and compliance mechanisms for RCO. The event was inaugurated by prominent dignitaries including Shri Praveen Gupta, Member (Thermal), CEA; Shri Hemant Kumar Pandey, Chief Engineer (R&R), Ministry of Power; Shri H.K. Jagadeesh, Member, KERC; Shri Milind Deore, Secretary, BEE; and Shri Pradeep Singhvi, Executive Director, Grant Thornton.

The workshop saw active participation from a wide range of stakeholders, including Designated Consumers from diverse industrial sectors, DISCOMs, State Electricity Regulatory Commissions (SERCs), and State Designated Agencies (SDAs). Key sessions covered the RCO Rules and Operational Guidelines, providing clarity on compliance requirements. A live demonstration of the newly developed online RCO portal was also presented, showcasing its user interface and functionality for submission of compliance data, aiming to streamline reporting processes.

Engaging and insightful discussions were held on

the different approaches and best practices to meet RCO compliance. Stakeholders exchanged views on challenges and strategies, contributing to a more robust understanding of the regulatory expectations. Experts emphasized the importance of digital tools and real-time data monitoring to enhance accountability and ensure transparent reporting. The event also served as a platform to gather valuable feedback for refining future iterations of the RCO guidelines. The successful conduct of the workshop is a step forward in aligning efforts toward achieving India's national target of 500 GW of installed non-fossil capacity by 2030, reinforcing the country's commitment to a clean energy transition.



Attention to DCs: Monitoring & Verification (M&V) Audit for PAT Cycle VII & VIIA Compliance

The Perform, Achieve and Trade (PAT) Cycle VII and VIIA Completed on March 31st, 2025, marking the end of the target year for participating Designated Consumers (DCs). As part of the compliance process, all facilities are now required to carry out the Monitoring & Verification (M&V) Audit to validate the energy savings achieved during the cycle.

Each facility must submit the Mandatory Energy audit report along with Form A and Form B, as prescribed in the PAT Rules, to the Bureau of Energy Efficiency (BEE) and Energy Management Centre (EMC) on or before July 31st, 2025. All designated entities are expected to fully cooperate with the empanelled Accredited Energy Auditors (AEAs) during site visits and ensure that all necessary documentation is made available

for review. The list of BEE-empanelled AEA firms eligible to conduct the M&V audit is available for reference here:

List of Auditing Firms Empanelled to undertake M&V activity under PAT Cycle VII: <https://beeindia.gov.in/en/programmesperform-achieve-trade/pat-recent-developments>

Timely and accurate submission of M&V audit reports is essential for the issuance of Energy Saving Certificates (ESCs) and for maintaining compliance under the PAT scheme. Industries are encouraged to initiate the audit process without delay to avoid last-minute rushes and ensure quality reporting. For support or clarifications, DCs may contact their sector-specific PAT coordinators or the respective State Designated Agencies (SDAs).

Kerala's Peak Power Demand Set to Surpass 7,000 MW by 2026–27, Energy Storage Key to Grid Stability

Kerala is projected to experience a significant surge in electricity demand, with peak requirements expected to exceed 7,000 megawatts (MW) by the fiscal year 2026–27. This escalation is attributed to the increasing adoption of air conditioning systems and the rapid growth of electric vehicles (EVs) in the state.

A recent report by the Energy Management Centre (EMC) highlights that the current peak demand stands at 5,686 MW (as of March 2024) and is anticipated to rise annually by 10.5%. The proliferation of EVs, which has seen a 585% increase since FY 2021–22, along with the growing use of induction cookstoves, are significant contributors to this upward trend.

To address the impending demand and ensure grid stability, the EMC recommends the integration of approximately 7 gigawatt-hours (GWh) of energy storage capacity. Emphasis is placed on the deployment of Battery Energy Storage Systems (BESS) and the development of



Fluence's grid-scale Gridstack storage system

Pumped Storage Hydro Projects –connected battery storage project. (PSHPs). While PSHPs offer a long Additionally, a tender for a 125 MW/500 –term solution, BESS can provide MWh battery storage system has immediate support to manage peak been launched to further bolster loads and enhance grid reliability. the state's energy infrastructure.

The state has already initiated steps These strategic initiatives underscore towards this goal, with the Kerala Kerala's commitment to sustainable State Electricity Board (KSEB) energy management and its proactive awarding a contract to Hero Future approach to meeting future electricity Energies for a 10 MW/20 MWh grid demands.

Energy Efficiency Through PAT Cycles – A Decade of Impact

The Perform, Achieve & Trade (PAT) Scheme, initiated by the Bureau of Energy Efficiency (BEE) under the Ministry of Power, Government of India, has emerged as a cornerstone of India's mission towards industrial energy efficiency and emission reduction. Over the past decade, the PAT Scheme has made a transformative impact on energy-intensive sectors, driving measurable results and fostering a culture of sustainability across Indian industries.

From Cycle I (FY 2012-15) to Cycle VIII (FY 2023-26), the PAT Scheme has covered multiple sectors and hundreds of Designated Consumers (DCs), demonstrating consistent achievements in energy savings and carbon emission reduction. Notable highlights include:

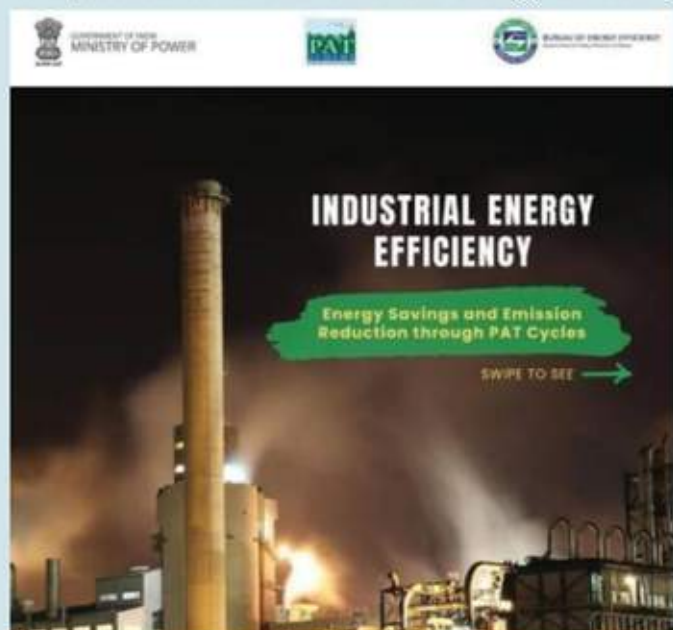
PAT Cycle I achieved 8.67 MTOE of energy savings and 31 million tCO₂ emission reduction. PAT Cycle II saw 14.08 MTOE energy savings and 68.43 million tCO₂ emission reduction. PAT Cycle VI contributed to a 1.277 MTOE saving and is still reporting further progress in later cycles. With Cycle VIII currently in progress, the scheme is expected to further enhance energy efficiency



outcomes with 190 DCs participating across 6 key sectors.

The PAT mechanism not only encourages energy savings but also promotes a market-based approach through the trading of energy saving certificates (ESCs), offering both economic and environmental benefits.

Driving Energy Efficiency through PAT Cycles The Perform, Achieve & Trade (PAT) Scheme has significantly transformed India's energy-intensive industries with measurable impacts. With over a decade of implementation from Cycle I to VIII, PAT continues to drive progress across multiple sectors, covering hundreds of Designated Consumers (DCs) and achieving substantial emission reductions. Let us continue to support and implement such initiatives to ensure a greener and energy-efficient Kerala, aligned with India's sustainable development goals.



PAT BULLETIN

Administration

Dr. R Harikumar

Director, EMC-Kerala

Mr. Johnson Daniel

Head NMEEE & DSM, EMC-Kerala

Mr. Sarath Krishnan S

Energy Technologist

EMC-Kerala

PAT CELL- EMC KERALA

Execution Team

Managed by FICCI

Mr. Siva Rama Krishna Dasika

Accredited Energy Auditor

Mr. Chinmaya Gahir

Financial Expert

Mr. Shanmuganathan. M

Legal expert

Regional Execution Team

Mr. Ajay Krishnan K

Energy Manager

Mob: 9995271845

Email: em.kerala@ficci.com

Mrs. Divine Angel J D

Project Associate

Mob: 8075790589

Email: pa.kerala@ficci.com

