



# Kerala State Energy Conservation Awards 2025

**Energy Management Centre - Kerala**

Department of Power, Government of Kerala  
Thiruvananthapuram



**CONSERVE  
ENERGY FOR A  
BETTER TOMORROW!**

# Kerala State Energy Conservation Awards 2025

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**Energy Management Centre- Kerala**

Dept. of Power, Govt. of Kerala

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## MESSAGE

18 December 2025

Kerala's commitment to achieving carbon neutrality by 2050 is a key part of its vision for a sustainable future. To reach this ambitious goal, the state has launched several initiatives under the Navakeralam Karma Padhathi, involving all departments in a concerted effort to reduce carbon emissions and promote energy efficiency.

This dedication to sustainability is reflected in Kerala's outstanding performance in the National State Energy Efficiency Index prepared by NITI Aayog, where it has consistently ranked among the top states. Furthermore, Kerala has been recognized with the prestigious National Energy Conservation Award for its exceptional efforts in energy management and conservation.

By prioritizing energy conservation, Kerala is not only cutting costs and preserving resources but also leading the way in reducing the environmental impact of conventional energy sources. The state's success is an inspiring model of sustainable energy practices, and its achievements continue to drive progress toward a carbon-neutral future.

Congratulations to all the award winners! Your hard work in making Kerala India's most energy-efficient state is a testament to the collective effort to build a sustainable and energy-efficient future for all

**Shri. Pinarayi Vijayan**  
Chief Minister, Government of Kerala





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## MESSAGE

Energy efficiency and conservation complement each other, aiming to curtail energy consumption. Efficiency focuses on technical performance, while conservation involves reducing overall energy use. In Kerala, rising energy demand has pushed us to expand production, but there are limits due to physical, geographical, and economic constraints.

The emissions from energy generation, notably fossil fuels like natural gas, lead to greenhouse gases, fostering climate-related risks. Addressing this crisis hinges significantly on boosting energy efficiency. Efficient measures have proven the most cost-effective in combating climate change, curbing waste, saving money, and promoting renewable energy resources.

Our state actively strives for energy efficiency and sustainability. The Energy Management Centre Kerala plays a crucial role in this endeavor. Congratulations to the Kerala State Energy Conservation Award 2024 winners! I applaud all participants for their innovative contributions toward energy efficiency and conservation, supporting our state's sustainable living goals.

**Shri. K. Krishnankutty**  
Hon. Minister for Electricity



# Introduction

As the impacts of climate change intensify worldwide, energy conservation has become central to mitigation and sustainability efforts. Global climate frameworks under the UNFCCC, including the Paris Agreement and subsequent COP decisions, recognize energy efficiency as one of the most cost-effective strategies for reducing emissions while supporting economic growth. The observed decline in energy intensity relative to GDP in many economies highlights the role of policy interventions, technological advancement, and structural transitions, even as challenges such as the rebound effect persist.

In India, the Energy Conservation Act, 2001 provides the legislative foundation for curbing energy wastage and mainstreaming energy efficiency across sectors. Recent policy enhancements have further aligned the Act with national climate mitigation goals, including India's Nationally Determined Contributions and long-term low-emission development strategy.

Kerala has emerged as a national leader in energy efficiency, as reflected in its strong performance in NITI Aayog's State Energy Efficiency Preparedness Index. This achievement is driven by coordinated, well-monitored initiatives across sectors such as buildings, industry, transport, agriculture, municipalities, and power distribution, complemented by sustained public awareness and capacity-building efforts.

In alignment with global and national climate objectives, the Energy Management Centre (EMC) – Kerala continues to play a pivotal role in advancing energy conservation and efficiency, supporting the state's transition towards a low-carbon, climate-resilient, and energy-efficient development pathway.

## Major Achievements of EMC During the Financial Year 2024-25

### 1. Awards and Recognition

- State Energy Efficiency Performance Award 2024: Kerala secured 2nd place at the National Energy Conservation Awards (NECA).
- Kerala State Energy Conservation Awards 2024: Announced Dec 14, 2024; conferred on Feb 7, 2025, during IEFK 2025, recognizing excellence across seven categories. **Key Events and Initiatives**

## 2. Major Events

- International Energy Festival of Kerala (IEFK) 2025 (Feb 7–9, Thiruvananthapuram) Made government offices energy-efficient under the Urjayan program, completing audits for 135 buildings in Vamanapuram Assembly Constituency
  - Theme: Decarbonizing Kerala
  - Highlights: Panel discussions, commemorative stamp unveiling, MoU signings, Energy Awards ceremony, Mega Quiz, LED Repair Workshop
- Energy Awareness & Training Events:
  - Unarvu 2.0 campaign: 3,823 students/teachers from 61 schools engaged.
  - Energy Club Kerala launched to promote energy conservation among students.
  - Multiple workshops: sustainable cooling, energy efficiency in PSU/tyre sector, AI in power distribution, electric school buses, demand-side management.
  - International Engagements: Director of EMC participated in Sustainable Energy for All Global Forum (Barbados) and other global energy discussions

## 3. Energy Efficiency Projects

- Angan Jyoti: 2,387 Anganwadis transitioned to energy-efficient electric cooking; globally recognized model.
- S.T.R.E.E (Go Electric): 600 electric bicycles distributed to SHG women in Palakkad & Kannur; promotes sustainable transport & women's empowerment.
- Smart Electric Kitchen: Electric boilers and solar water heaters implemented in schools, e.g., A.C. Kannan Nair Smaraka Govt UP School, Kasaragod.
- Urjayan & Chaithanyam Projects: Energy audits and retrofitting in government institutions (13 buildings) and healthcare facilities (31 health centers).
- MSME & Agriculture Sector Audits:
  - 8 plastic units in Ernakulam audited.
  - State Seed Farm, Karimannoor audited.
  - 9 'Karshika Jyothi' awareness programmes conducted
- Kulirma (Cool Roof Initiative): 32 Anganwadis & 1 school retrofitted; studies underway across 69 Anganwadis.

#### 4. Renewable Energy & Storage

- Pumped Storage Hydroelectric Projects (PSPs): 10 potential sites identified; 5 pre-feasibility studies completed; MoU with REC Limited signed.
- Energy Storage Systems Feasibility Study: Conducted with ISEF & KPMG; findings shared with stakeholders.
- Arippara SHP Evaluation: Technical committee constituted for BOOT extension evaluation.

#### 5. Capacity Building & Training

- Energy Managers & Auditors: 5-day preparatory training for national certification exams.
- ISO/IEC 17025:2017 Training: Quality management and internal audit training for labs.
- Workshops & Boot Camps: Clean energy innovation incubation (CEIBIC), sustainable building practices, energy efficiency financing, market surveillance under S&L program.

#### 6. Laboratory, Testing & Financial Support

- Energy Meter Calibration Lab: NABL accreditation renewed; 5,399 meters calibrated; ₹40.44 lakhs revenue.
- Lighting & Luminaires Test Unit: Streetlight testing conducted; ₹54,870 collected.
- Kerala State Energy Conservation Fund: Low-interest loans for energy projects; 2 PSUs availed facility.

#### 7. Publications & Awareness

- Urja Keralam (Aug 2024): Highlights sustainable energy progress from 2021–24.
- Energy Conservation Week & Awareness Programmes: Conducted across universities, schools, and local communities

#### 8. Policy & Stakeholder Engagement

- Cool Roof Policy: Stakeholder meeting with WRI India.
- Pumped Storage Policy: Revised draft submitted to government (Mar 28, 2025).
- Multiple consultative workshops with PSUs, IFC, SEforALL, AEEE, and CSTEP on energy transition, decarbonization, and sustainable practices.

# Kerala State Energy Conservation Award 2025

The State Level Monitoring Committee for Energy Conservation in Kerala approved the guidelines, application process, and the Judging Committee for the awards. The guidelines and applications for various categories were subsequently publicized through electronic, visual, and print media, as well as via direct communication to relevant organizations and agencies. A one-day sensitization programme was conducted, during which the previous year's award-winning industries shared their energy efficiency best practices, raising awareness among industrial and commercial energy consumers in the State.

A Judging Committee comprising Dr. J. Nagesh Kumar (National Energy Expert & Former Director, NPC), Shri Riyas K. Basheer (Associate Professor, CMD), Shri Prasanth Kumar (AGM–Thermal, FACT), Dr. Joy Varghese V.M. (Assistant Professor, CET), and Shri Johnson Daniel (Head, NMEEE & DSM Division, EMC–Kerala) was constituted to evaluate the shortlisted applications through the Technical Secretariat of EMC.

The Committee conducted site visits for categories including Large, Medium, and Small-Scale Energy Consumers and Buildings, and online evaluations for Institutions and Organizations, Promoters of Energy-Efficient Products, Architectural Firms, and Green Building Consultancies from 2nd to 5th December 2025. Based on the evaluation, applicants scoring 80 and above were recommended for Awards, while those scoring 70–79 were recommended for Commendation Certificates.

The recommendations of the committee were approved by the State Level Monitoring Committee for Energy Conservation in Kerala, and the results were declared on 17th December 2025. The following are the categories for the 2024 Awards



The following are the categories for the Award 2025

## Category 1: Large-Scale Energy Consumers

Including large scale industries except buildings – All consumers in the State with a total (electricity + fuel) annual energy consumption more than 1000 TOE (Ton of Oil Equivalent)) or 11.6 Million Units and Designated consumer notified by central Government as per EC Act 2001.

## Category 2: Medium-Scale Energy Consumers

Including medium scale industries except buildings – All consumers in the State with a total (electricity + fuel) annual energy consumption between 150 to 1000 TOE or 1.7 Million Unit to 11.6 Million Units.

## Category 3: Small-Scale Energy Consumers

Including small-scale industries except for buildings – All consumers in the State with a total (electricity + fuel) annual energy consumption of up to 150 TOE\* or up to 1.7 Million Units.

## Category 4: Buildings

All Commercial Buildings including hotels, hospitals, shopping malls, Office Buildings, Theatres, Educational Institutions, etc that have implemented energy conservation/efficiency/e-mobility programs in their facilities and Institutions/Buildings which has designed and/or developed such buildings/campus including LEED/green Building, GRIHA rated or ECBC Compliant building or with proven/certified Energy Efficiency and conservation including Green/Eco-friendly considerations.

## Category 5: Institutions & Organizations

Including Local Bodies, NGOs, and organizations involved in the implementation and promotion of energy conservation, energy efficiency, and clean energy projects/programs & e-mobility

## Category 6: Promoters of Energy Efficient Products

(Including manufacturers, retailers, traders, service providers, and software developers who actively promote energy efficiency and renewable energy in the State. Eligible participants are those involved in the supply, installation, or servicing of certified energy-efficient and renewable energy products; retailers and traders selling or distributing BEE Star-labelled products as notified by the Ministry of Power, Government of India; and stakeholders working in areas such as battery energy storage, electric cooking, electric mobility (e-mobility), and energy management. This category also includes manufacturers of cool roofing materials and reflective paints, as well as service providers and software developers offering solutions for energy conservation, clean energy integration, monitoring, and efficient energy use)

## Category 7: Architectural Firms and Green Building Consultancy

Including Architectural firms and Green building consultants who has designed and/or developed such buildings/campus including LEED/IGBC / GRIHA /other or ECBC Compliant building or with proven/certified Energy Efficiency and conservation including Green/Eco friendly considerations.



## CRITERIA FOR JUDGING THE MERIT

The recipients of the awards are selected based on their outstanding achievements and contributions in the field of energy conservation and management. The Award may not have been entirely decided based on only quantitative achievements but also considers various other factors, including innovative techniques and technologies adopted, management commitment, consistency, employee participation, environmental friendliness, and the organizational setup promoting energy conservation within the unit.

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**Cochin Shipyard Limited**  
Ernakulam

## Large-Scale Energy Consumers

### Best Performance Award

#### The Cochin Shipyard Limited, Ernakulam

Cochin Shipyard Limited (CSL) is a Schedule 'A' CPSE under the Ministry of Ports, Shipping and Waterways, incorporated in 1972 and accorded Mini-Ratna status in 2008. The company operates India's largest greenfield shipyard, with the capability to build vessels up to 1,10,000 DWT and repair vessels up to 1,25,000 DWT. The New Dry Dock and International Ship Repair Facility, inaugurated in January 2024, have further strengthened its infrastructure. CSL achieved a turnover of ₹4,820 crore in FY 2024–25. It is certified to ISO 9001, ISO 14001, ISO 45001, and ISO 27001 standards and is the first company in the shipping sector to receive GreenCo Gold certification. CSL has delivered India's first Hydrogen Fuel Cell Electric Ferry Vessel and is currently constructing hybrid-electric vessels.

Their major energy conservation efforts include the following:

- Conversion of diesel forklifts to CNG and procurement of EV forklifts
- Conversion of diesel platform trucks to electric platform trucks
- Replacement of old non-inverter ACs with inverter-type ACs
- Adoption of energy-efficient BLDC/5-star fans
- Replacement of conventional and discharge lamps with LED lighting
- Installation of motion-sensor LED battens in Repair Dock Service Tunnel
- Operational controls such as switching off air compressors during lunch breaks
- Continuous monitoring of power factor and rectification of compressed air leakages

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Total Annual Savings achieved during the last financial year:

**Electricity: 0.361 MU**

# Fortune Elastomers Pvt Ltd

Kozhikode



## Small Scale Energy Consumers

### Best Performance Award

#### Fortune Elastomers Pvt Ltd, Kozhikode

Fortune Elastomers Private Limited is a BIS-certified footwear manufacturing company that commenced operations in 2013 and is located at KSIDC Kinalur, Kozhikode. It is part of the VKC Group and is the largest footwear manufacturer among the group companies, which has over 40 years of experience in the footwear industry. The company has a production capacity of 40,000 pairs per day and manufactures brands such as VKC Pride, Debon, Goodspot, Ezhigo, VKC Stile, and Hipride. With modern facilities, skilled manpower, and strong emphasis on technology and quality control, Fortune Elastomers delivers durable, high-performance footwear. The company was awarded the Industrial Safety Award 2023 by the Factories and Boilers Department, Government of Kerala, in recognition of its commitment to workplace safety.

Their major energy conservation efforts include the following:

- AI-based energy monitoring and management system (Zerowatt Energy Intelligence System)
- Solar power generation with Automated Transfer Switching (ATS) system
- Upgrade to energy-efficient BLDC fans and industrial LED lighting, including timer-controlled outdoor lights
- Adoption of servo motors in machinery for improved efficiency
- Installation of automatic water-level sensing systems in water tanks

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Total Annual Savings achieved during the last financial year:

Electricity: 0.13 MU

# International Airport Ltd

## Thiruvananthapuram



## Buildings

### Best Performance Award

#### Thiruvananthapuram International Airport Ltd

Since 14 October 2021, Thiruvananthapuram International Airport has been operated by Adani Enterprises Ltd, which manages the terminals, airside, landside, and operational facilities, while implementing modern infrastructure upgrades to support growing passenger traffic and international connectivity. Established in 1932 as the first airport in Kerala, it expanded domestic services over the decades and was officially declared an international airport in 1991, enabling direct flights to the Middle East and other destinations. The airport currently operates two terminals: T1 for domestic flights and T2 for international operations.

Their major energy conservation efforts include the following:

- VFDs installed for motor output control and energy efficiency
- Brushless DC (BLDC) fans installed for higher efficiency, quieter operation, and lower maintenance
- AC units upgraded/replaced with 5-star inverter units using R32 refrigerant
- AHU improvements with high-efficiency motors installed and filters replaced
- Air curtains installed at all terminal gates
- Sun-film installed on terminal and aerobridge windows
- HVAC pumps replaced with energy-efficient IE4 prime movers

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Total Annual Savings achieved during the last financial year:

Electricity: 0.913 MU

# University Of Kerala Thiruvananthapuram



### Best Performance Award

#### University Of Kerala, Thiruvananthapuram

University of Kerala, established in 1937, is the first university in Kerala and a premier institution in India. Re-accredited by NAAC with 'A++' (CGPA 3.67) in 2022, it ranks 5th among State Public Universities and holds positions in global rankings including THE and QS. The University has 11 faculties, 43 departments, and 194 affiliated colleges, offering undergraduate, postgraduate, doctoral, and post-doctoral programs, with over 3,500 students, including internationals. It promotes research, innovation, and entrepreneurship through CLIF, TRIC-KU, and KUBIIC. The University actively pursues sustainable development and energy efficiency across its campuses.

Their major energy conservation efforts include the following:

- Energy efficiency: LED lighting, high-efficiency fans, pumps, motors, 5-star appliances, and upgraded substations across campuses. Sustainable transport: 50 bicycles and 2 electric buggies saving 4,501 litres of fuel annually
- Centre for Renewable Energy & Materials (CREM) initiatives: Established in 2019, CREM promotes research, innovation, and training in sustainable energy, featuring a Microbial Fuel Cell laboratory
- Patents & research: Solar-reflective pigments, self-powered solar cells; ECO-MARINE project on marine ecosystem protection and a Department of Science & Technology (DST)-funded microbial fuel cell project using sugarcane-based reactants
- Green campus: Harithalayam, seed banks, green pedagogy promoting sustainability and biodiversity
- Awareness & training: Energy quizzes, project-based learning for school students, debates on renewable energy, and environmental auditing courses
- Renewable energy: Solar systems (>1,100 kWp) at multiple sites



# Peekay Steel Castings Pvt Ltd

Calicut

### Commendation Certificate

#### Peekay Steel Castings Pvt Ltd., Calicut

Peekay Group, established in 1942, has grown into a prominent business conglomerate with diverse interests. One of its key entities, Peekay Steel Castings Pvt Ltd, specializes in the production of high-quality castings that consistently surpass customer expectations. The company's unwavering commitment to excellence is evident in its focus on quality performance, which has helped it maintain its position as a leader in the casting industry. The foundry operates under a stringent quality policy and objectives, prioritizing continuous improvement and ensuring customer satisfaction.

Their major energy conservation efforts include the following

- High-Frequency Converter Interval Cut-Off Modification implemented
- Riser & Runner Cut-Off Machine installed
- Rapid Prototyping with Additive Manufacturing implemented
- Energy-Efficient E.O.T Crane Upgrade completed
- Localized Stress Relief Using Induction Heating implemented
- Soaking Time Optimization Based on Effective Modulus Thickness applied Portable Air Blower introduced
- Compressor Power Optimization implemented
- Induction Melting Furnace Crucible Lining Optimization carried out
- Solar-Powered Electric Vehicle Implementation introduced

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Total Annual Savings achieved during the last financial year:

**Electricity: 1.10 MU**

**Thermal : 13.95 toe (LPG)**



# Travancore Titanium Products Limited

Thiruvananthapuram

## Large Scale Energy Consumers

### Commendation Certificate

#### Travancore Titanium Products Limited, Thiruvananthapuram

Travancore Titanium Products Limited (TTPL) is a Public Sector Undertaking owned by the Government of Kerala and a pioneer in South East Asia in the production of Anatase grade titanium dioxide. Incorporated in 1946, the company commenced commercial operations in 1950 with an initial capacity of 5 MT per day, which has since been expanded to 45 MT per day. TTPL is currently the largest manufacturer of Anatase grade titanium dioxide in India and operates with ISO 9001:2015 certification, adhering to BIS 411:2020 standards to ensure consistent product quality. In addition to titanium dioxide, TTPL also produces Potassium Titanate, Sodium Titanate, and phosphate-free Titanium Dioxide, reinforcing its portfolio of high-quality, value-added products.

Their key energy conservation initiatives include the manufacturing of star-rated products which includes the following:

- Co-generation plant implemented for waste heat recovery
- Solar power system installed to support clean energy generation
- Variable Frequency Drives (VFDs) installed to enhance process efficiency and reduce power consumption
- Power factor improvement achieved through the installation of APFC panels
- Energy-efficient motors, LED lighting, and BLDC fans installed in place of conventional equipment
- Miyawaki forest developed to support ecological restoration and biodiversity

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Total Annual Savings achieved during the last financial year:

**Electricity: 0.72 MU**

# VKL Seasoning Private Limited

Alleppey



## Medium Scale Energy Consumers

### Commendation Certificate

#### VKL Seasoning Private Limited, Alleppey

VKL Seasoning Pvt. Ltd., established in 1935 and based in Alappuzha, Kerala, is a leading manufacturer of seasonings, spice blends, and flavor solutions, operating as part of DSM-Firmenich. The facility produces snack seasonings, masala blends, marinades, coatings, and customized solutions for domestic and international markets. It features automated blending lines, FFS packing machinery, metal detection systems, and a quality control and microbiology laboratory, adhering to FSSC, HACCP, GMP, and GHP standards.

Their major energy conservation efforts include the following:

- Radiant cooling system installed for Admin & QA Lab and AHU upgrades in process centers
- Automatic condenser tube cleaning system and active harmonic filter installation
- VFD-enabled secondary pumping system and 160 TR VFD screw chiller installation
- Electric motors upgraded to IE4 efficiency
- Real-time cloud-based energy monitoring system
- Canal rejuvenation with 1,500 trees planted
- Free EV charging stations for 2- & 4-wheel vehicles
- High-speed, energy-efficient air curtains
- 320 kW solar power generation system

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Total Annual Savings achieved during the last financial year:

Electricity : 0.029 MU

# MRCMPU Ltd

## Kannur Dairy



## Medium Scale Energy Consumers

### Commendation Certificate

#### MRCMPU Ltd, Kannur Dairy

Kannur Dairy (formerly Malayora Dairy), part of the Malabar Regional Co-operative Milk Producers' Union Ltd. (MRCMPU), is a pioneer in sustainable dairy operations and the first in Kerala to achieve ISO 50001:2018 EnMS certification, highlighting its commitment to energy efficiency and responsible production. Headquartered in Kozhikode, MRCMPU serves six northern districts under MILMA, operating 1,340 Anand Pattern Societies (APCOS) and 38 traditional milk societies. Kannur Dairy, commissioned on 15 November 2017 in Sreekandapuram, has 200 employees, 165 milk societies, and 628 agents, with an average milk procurement of 50,000 LPD, sales of 1,20,000 LPD, and a processing capacity of 1,50,000 LPD, serving Kannur district with energy-saving and green initiatives.

Their major energy conservation efforts include the following:

- Automation of Air Compressors using PLC controlled VFD
- Automation of Boilers using PLC controlled VFD
- Solar Water Heater for generating 3 KL/day hot water
- Electric Auto for transportation of film and other materials within the dairy
- 50kWp Grid interactive Rooftop Solar Photovoltaic system

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Total Annual Savings achieved during the last financial year:

Electricity: 0.867 MU

Thermal: 18.62 toe (biomass)

# Coconut Lagoon

Kumarakom



## Buildings

### Commendation Certificate

#### Coconut Lagoon, Kumarakom

Coconut Lagoon, located in Kumarakom, Kerala, is a flagship heritage resort of CGH Earth, established in 1993. Designed to reflect traditional Kerala architecture, the property offers an immersive backwater experience rooted in sustainability and local culture. The resort features 50 rooms and two restaurants, showcasing regional cuisine and eco-sensitive hospitality practices. Surrounded by tranquil waterways and lush landscapes, Coconut Lagoon is situated close to the Regional Agricultural Research Station and the Kumarakom Bird Sanctuary, making it an ideal destination for nature and culture enthusiasts.

Their major energy conservation efforts include the following:

- Installed energy-efficient LED lighting to reduce electricity consumption
- Implemented Variable Frequency Drives (VFDs) in the pumping system to optimize energy usage
- Installed solar hot water systems for electricity and water heating needs
- Tree plantation drives to enhance green cover
- Reused glass bottles as part of waste reduction initiatives
- Promoted organic farming practices to support sustainable agriculture
- Installed a 370 kWp Grid-Tie Solar PV System to generate clean electricity

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Total Annual Savings achieved during the last financial year:

**Thermal: 7.8 toe (LPG)**



# Rajagiri College Of Social Sciences (Autonomous)

Kalamassery, Kochi

### Commendation Certificate

#### Rajagiri College Of Social Sciences (Autonomous), Kalamassery, Kochi

Rajagiri College of Social Sciences (Autonomous), Kochi, established in 1955 and managed by the CMI Congregation, is a leading higher education institution known for academic excellence, sustainability leadership, and social responsibility. Conferred Autonomous Status by the UGC in 2014, the College is affiliated with Mahatma Gandhi University and re-accredited with NAAC A++ (CGPA 3.83/4). RCSS offers 25 undergraduate, postgraduate, and doctoral programmes across 9 departments and functions as a recognized research centre.

Their key energy conservation initiatives include the manufacturing of energy efficient products which includes the following:

- Comprehensive energy audits conducted
  - Energy-efficient LED lighting with occupancy sensors and daylight controls installed campus-wide
  - Biogas and composting systems implemented for conversion of organic waste
  - Passive design features such as natural lighting, ventilation, and reflective roofing incorporated in campus buildings
  - ISO-certified electric vehicle charging station installed with facilities for two-, three-, and four-wheelers
  - Grid-connected solar photovoltaic system installed
  - URJAKIRAN energy conservation campaigns conducted, benefiting over 1,800 participants
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# All About Innovation and Advanced Research Pvt Ltd

Alappuzha



## Commendation Certificate

### All About Innovation and Advanced Research Pvt Ltd, Alappuzha

All about Innovations and Advanced Research Pvt. Ltd., established in Alappuzha, through its clean-technology division Radian Electric, has developed a high-efficiency ElectricOutboard Motor (OBM), transforming India's inland water transport (Fishing/Shikara boats). The technology delivers a ~85% reduction in energy consumption per vessel per hour, cutting fossil-fuel use, carbon emissions, and operational costs, while supporting the Kerala State EV Policy and national climate action goals. Radian Electric OBM is in commercial use on Shikara boats in Alappuzha, replacing Suzuki 6 HP engines. It has also been pilot- tested on fishing boats. The following are the features of Radian Electric OBM

- High-efficiency BLDC motor with optimized torque and minimal energy consumption
  - Hydrodynamically optimized propulsion system for maximum energy-to-motion conversion
  - Direct fossil-fuel replacement equivalent to 6 HP petrol engines
  - Optional nanobubble oxygenation system improves water quality and enhances dissolved oxygen
-



**F5 Sustainability  
Consultants**

## Architects and Green Building Consultants

### Commendation Certificate

#### **F5 Sustainability Consultants.**

F5 Sustainability Consultants, a member of the Indian Green Building Council, was established in 2019 as a Kerala-based firm specializing in green building analysis and facilitation. The firm offers consultancy services in areas such as ESG compliance, Net Zero assessment, green building certification, ECBC compliance, and green building awareness and technical training programs. F5 also provides support for green building certification for professionals. The firm won the Kerala State Energy Conservation Award in 2022 and has been involved in numerous projects with certifications like IGBC, GRIHA, LEED, and ECBC. Expanding globally in 2023, F5 also offers ESG compliance and Net Zero transformation services. In terms of project achievements, F5 has completed 2 ECBC-compliant buildings, with 13 more currently under construction. Additionally, 11 major projects are underway under GRIHA and IGBC for the year 2024–25. Some of these projects are listed below

- KEF Medical Facility Building, Malappuram
- Assembly Building, Malappuram
- Kannur University Sports Complex
- Ernakulam Market
- Taluk Hospitals in Kondotty, Kunnankulam, Perambra and Pathanapuram

## SUMMARY OF SAVINGS ACHIEVED BY ENTERPRISES PARTICIPATED IN THE STATE ENERGY CONSERVATION AWARDS -2025

No of participants **90**

Total saving in Electricity in (MU) **249**

Total saving in Fuel (TOE) **841**



## STATE LEVEL MONITORING COMMITTEE FOR ENERGY CONSERVATION IN KERALA

[GO (Rt) No.128/2020/POWER DATED 24/11/2020]

### **Chairman**

**The Secretary to Government**  
Department of Power  
Government Secretariat,  
Thiruvananthapuram – 695001

### **Members**

**The Chairman and Managing Director**  
Kerala State Electricity Board Ltd.

**The Chief Electrical Inspector to Govt. of Kerala**  
O/o Chief Electrical Inspector

### **The Director**

Directorate of Factories and Boilers

### **The Chief Electrical Engineer**

Public Works Department

### **The Chief Executive Officer**

Agency for Non-Conventional Energy and Rural  
Technology (ANERT)

### **Member and Convener**

Director, Energy Management Centre



# **Kerala State Energy Conservation Awards 2025**

## **Energy Management Centre- Kerala**

( State Designated Agency to enforce Energy Conservation Act 2001)

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