



# **REPORT ON SENSITIZATION PROGRAMME**

## **KERALA STATE ENERGY CONSERVATION AWARD 2023**

**18<sup>th</sup> October 2023**



**ENERGY MANAGEMENT CENTRE- KERALA**

Department of Power, Govt. of Kerala

State Designated Agency

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## About EMC

Energy Management Centre (EMC) - Kerala is an autonomous body under the Department of Power, Government of Kerala, which came into existence on 07-02-1996. The office of the Centre is situated at Sreekariyam, Thiruvananthapuram. Energy Management Centre is the “State Designated Agency” to co-ordinate, regulate and enforce the provision of the EC Act 2001 in the state of Kerala with the concurrence of BEE, Ministry of Power, Govt. of India and for implementing various schemes under the Act.

The Centre is devoted to improving energy efficiency in all sectors of the economy in the state. The main objectives of EMC are promoting energy conservation and encouraging the development of technologies related to energy efficiency and conservation through research, training, demonstration programs, and awareness creation.





Sensitization Program on

## “Kerala State Energy Conservation Awards 2023”

18<sup>th</sup> October 2023

Google Meet link: <https://meet.google.com/xgg-ahtw-acp>.

### **Tentative Agenda**

10:00 AM - 10:10 AM	Welcome Address		Mr. Anoop Surendran Energy Technologist, EMC- Kerala.
10:10 AM - 10:20 AM	Opening Remarks		Er. B V Subash Babu, Registrar, EMC - Kerala.
10:20 AM - 11:35 AM	Presentation by Winners of the State Energy Conservation Awards 2022.	10:20 AM – 10:35 AM	1. Carborundum Universal Limited, Electromineral Division, Eranakulam.
		10:35 AM – 10: 50 AM	2. OEN India Limited, Eranakulam.
		10:50 AM – 11:05 AM	3. Kerala Development and Innovation Strategic Council.
		11:05 AM – 11:20 AM	4. Apollo Tyres Ltd., Kalamassery.
		11:20 AM- 11: 35 AM	5. Saint Gobain India Private Ltd. Palakkad.
11:35 AM – 12:00 PM	Briefing About State Energy Conservation Awards 2023.		Mr. Sandeep K, Energy Technologist, EMC - Kerala.
12:00 PM – 12:15 PM	Vote of Thanks		Mr. Sarun Kumar K P, Project Officer, Energy Efficient Building Cell, EMC - Kerala.

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## Sensitization Program on “Kerala State Energy Conservation Awards 2023”

Venue	Google Meet: <a href="https://meet.google.com/xgg-ahtw-acp">https://meet.google.com/xgg-ahtw-acp</a> .
Date	18/10/2023
No of Participants	89

As a part of the Kerala State Energy Conservation Awards 2023, a sensitization program was done by Energy Management Centre, Kerala on 18<sup>th</sup> October 2023 for the best practices case sharing presentations by 2022 award winners in industries category & building category. The program was started at 10.00 a.m. with a welcome address by Mr. Anoop Surendran, Energy Technologist, EMC - Kerala. The opening remarks were done by Er. B V Subash Babu, Registrar, EMC - Kerala.

The top screenshot shows a Google Meet session with a presentation slide titled "ABOUT THE ORGANIZATION" and "Sustainability Objectives" for SEFPRO. The slide includes a timeline of milestones: 1977 CUMI, 2002 Saint-Gobain took over the plant from CUMI, 2002 SEFPRO India started (Capacity: 2000MT), and 2009-2021 Plant extensions and capacity augmentation (Capacity: 21000MT). It also mentions that Saint-Gobain SEFPRO is a pioneer in the manufacturing of Fused Cast and Sintered Refractories for Glass furnaces. The sustainability objectives include: 175,000 employees and over 100 nationalities represented, One of top 100 most innovative groups in the world for the last 10 years, WCM (World Class Manufacturing) program chosen for Operational Excellence, and ISO 14001 (2015) and ISO 45001 (2018) certifications. The bottom screenshot shows a Google Meet session with a presentation slide titled "BEST PRACTICES IN ENERGY CONSERVATION & MANAGEMENT" presented by Saint Gobain India Pvt Ltd, SEPR PALAKKAD. The slide features a bar chart showing energy consumption trends. Both screenshots show the Google Meet interface with a "People" sidebar on the right listing participants and a "Contributors" list.



The first presentation was done by Carborundum Universal Limited, Electro mineral Division, Ernakulam, the best performance award winners of the State Energy Conservation Awards 2022 under large scale energy consumers. Mr. Nair Nandkumar, Senior Associate Vice President & Head - Manufacturing & Projects, Mr. Saju SB, Deputy Manager - Projects, Electro Mineral Division, and Mr. Romy George of Carborundum Universal Limited were attended and done the presentation.

The Kerala Development and Innovation Strategic Council (K-DISC) who won the first prize under the best performance award winners of building category of the State Energy Conservation Awards 2022 had done the second presentation. Dr. PV Unnikrishnan, KDISC Member Secretary was the representative from K-DISC.

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "HOT AIR FOR JET MILLING" with a sub-heading "AFTER MODIFICATION". The slide contains a flowchart and a list of bullet points:

- Existing Compressors - 3200 CFM Centrifugal Compressor and 600 CFM Screw Compressor
- Outlet of both compressor are paralleled and fed to common Refrigerant dryers
- The Dried Air is fed to line Process Plant for Milling. Other Auxiliary purposed (Operation of pinch valves, pneumatic valves etc.)

The flowchart shows the process flow from compressors through inter-coolers and a refrigerant dryer to a jet mill. A callout box indicates "For Feeding Hot Air to Plant" with two options: "01 By-pass the After Cooler" and "02 Fabricate New Compressor & Run from start for Hot Air".

On the right side of the Zoom window, there is a "People" panel showing a list of participants. The list includes "Romy George" and "57 others". Below this, there is a section titled "IN MEETING" with a list of contributors, including "EC Awards EMC (You) Meeting host", "EC Awards EMC Your presentation", "Aiswarya N", and "aji avirachan".

At the bottom of the Zoom window, there is a status bar showing the time "10:24 AM" and the title "Sensitization Program for KSECA 2023".

OEN India Ltd, Ernakulam was the best performance award winners under medium scale energy consumers and Mr. Sumesh Babu done the third presentation for the sensitization program.

The fourth and fifth presentations were done by Apollo Tyres Ltd, Kalamassery and Saint Gobian India Pvt. Ltd, Palakkad who won the commendation certificates under large scale energy consumers. Mr. Aneesh R, Group manager - Electrical, Apollo tyres Ltd was the representatives of Apollo Tyres whereas Mr. Anjith R (Manager Electrical), Mr. Sreejith JU (Supervisor – Electrical) and Mr. Midhun PA (Supervisor – Automation) were the representatives of Saint Gobain India Pvt. Ltd. for the respective presentation sessions.





Sumesh Babu OEN (Presenting)

### Major Conservation activities completed as on 2021

Sl No	Project Undertaken	Total Investment ₹	Savings ₹	Pay back period
1	Dedicated 11KV UG cable from substation	3.10 Crore	1.9 Crore	26 Months
2	200 KPD Biogas Plant	16 Lakh	12 KG lpg/day	-
3	Rainwater Harvesting - 28 Lakh Litres	14 Lakh	28 Lakh L	-
4	STP outlet for gardening	0.25 Lakh	-	-
5	3000 L Solar Water heater	5.25 Lakh	-	-
6	ETP outlet used for toilet flush	0.8 Lakh	5 KLPD	-
7	ETP Chemical replacement	-	45 KLPA	-
8	Installed VFD for 5 Air handling units	2.5 Lakh	4.15 LPA	5 Months
9	Driving motor auto off while M/c is idle in Stamping power press	0.05 Lakh	1.38 LPA	-
10	Replaced hydraulic machines with Electrical m/c for injection moulding	200 Lakh	-	-
11	L&T Moulding Machine conversion	-	-	-

Sumesh Babu OEN

EC Awards EMC (...)

SARUN KUMAR K P

Nair Nandkumar

Sreejith JU

Romy George

EC Awards EMC

65 others

EC Awards EMC

10:55 AM | Sensitization Program for KSECA 2023

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Your screen is still visible to others. Click to resume or cancel your presentation.

After each presentation, there had an interactive session for the other participants to clarify their doubts and which may help them in future to incorporate energy efficiency in their industries as well as buildings. After the presentations from each team, Mr. Sandeep K, Energy Technologist, EMC – Kerala had done a presentation which includes the briefing of State Energy Conservation Awards 2023, eligibility criteria, guidelines and the procedure that should be considered while filling the application. The participants clarified their doubts as well.

The sensitization program winded up by 12.30 p.m. with a thanks note by Mr. Sarun Kumar K P, Project Officer, Energy Efficient Building Cell, EMC Kerala.

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# Save Energy Save our Planet



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