

SUMMARY OF SEEM ACTIVITIES DURING 2023-26

1. Webinar on “Probing Approach for Effective Energy Analysis in Steam Process Networks for Energy Auditors”

Society of Energy Engineers and Managers, SEEM Karnataka Chapter organized a free webinar on “**Probing Approach for Effective Energy Analysis in Steam Process Networks for Energy Auditors**” on 08th April 2023, Saturday at 7:30 - 8:30pm IST. **Er. Dinanath Akela** – He is working as Manager- Utilities in MH, Having more than 14 years of experience in Erection, Commissioning & Operation in Boilers. Having Keen area of Interest in IR-CFBC operation and RLA of Old Boilers, Boiler effective operation with Environmental Norms with Compact Cost. He did B.Tech (Power Engineering) From NPTI (ER) Durgapur and has Certification in Competent Person for Inspection & Certification of Boilers, Proficiency Certificate in Boiler Operation (BOE) & Certified Energy Manager (BEE) and ASNT NDT Level II in RT & UT. He has presented many technical papers and given many training.

Steam utilized for drying, heating, Cleaning, Low cost Energy carrier, VAM (HVAC) & Power Generation process. There are challenges in different networks of Different Pressure Steam in wide application in Process Industries. This presentation gives insights on

1. Depth of Steam Energy application & Loss Identification
2. Minimizes Steam cost vs Production (output)
3. Saving in Significant Energy Cost

2. Webinar on “Microgrid - A way forward for decentralized power generation using sustainable and clean energy”

Society of Energy Engineers and Managers, SEEM Karnataka Chapter organized a free webinar on “Microgrid - A way forward for decentralized power generation using sustainable and clean energy” on 13th May 2023, Saturday at 7:30- 8:30pm IST. Mr. Shubha Chethan Somashekar– have bachelor’s degree in mechanical engineering from NIE, Mysuru and a master’s degree from Illinois Institute of Technology. He worked in various companies both in India and in the US for nearly 20 years as a mechanical engineer focusing mainly on product design. He is currently working in the field of renewable energy and microgrid Industries. This technical session gives insights on microgrid systems, current technologies, development and opportunities.

3. Technical Talk On Electric Vehicle Charging

Muthoot Institute of Technology and Science (SEEM Student chapter) associated with Society of Energy Engineers and Managers, organized a technical talk on electric vehicle charging at Visvesvaraya Hall on March 3rd, Friday from 10am to 12pm. The program was guided by HOD of electrical department and other faculties. The talk was delivered by our SEEM Member Mr. C M Varughese, CEO of Ever Green Energy Technologies Pvt Ltd, Cochin.

The program began with a silent prayer followed by a welcome speech. The speaker started by pointing out the need of electric vehicle. The talk covered topics such as EV charging-Models, different types of charging, growth of EVs, EV charging standards, forms of EV charging and advantages of EVs.



Later on, SEEM Student membership certificate was handed out by Mr. C M Varughese and a memento was presented to the guest of honour by HOD of electrical department. In the end, the student barrier proposed the vote of thanks to guest for his presence and HOD of the

department and other faculties, for providing support and guidance in the smooth conduct of the program. In conclusion, the technical talk was an excellent opportunity for the students to learn about the latest developments in the field of EV. The event was informative and insightful, and the attendees gained a comprehensive understanding of EV.

4. Webinar on “Energy Efficiency Improvement in Effluent Treatment Plant

Society of Energy Engineers and Managers, SEEM Karnataka Chapter organized a free webinar on “Energy Efficiency Improvement in Effluent Treatment Plant” on 11 March 2023, Saturday at 7:30- 8:30pm IST. **Er. Krishnamoorthy M** – (Maintenance Manager – Sharadha Terry Products Private Limited, Mettupalayam) B. Tech (Mechanical), Energy Manger, BEE (Delhi). Specialist Expert in Operation and Maintenance of Effluent treatment plants with more than 15 years of experience in textile utility system (ETP, Process Boilers, air compressors, ETP, Multiple evaporators) was the presenter of the webinar. This webinar gives the insights on **Energy Efficiency Improvement in Effluent Treatment Plant**. There was a Q&A session to have further discussion on the topic.

5. Water audit for Industries and Large Apartments



Society of Energy Engineers and Managers, SEEM organized a Three day physical training program on the topic Water audit for Industries and Large Apartments at Chennai Metro Water training center, Tamil Nadu on March 2nd 3rd & 4th 2023. **Dr. R. Pannirselvam**, born on 10th June 1941, is a retired Deputy Chief Engineer from Tamil Nadu Water Supply and Drainage Board and currently Guest faculty at Centre for Environmental Studies, Anna University. He is also Freelance Environmental Engineering Consultant with specialization in Wastewater Treatment. He was the chief faculty of the course. Around 20 participants from all over the Country participated with Enthusiasm. Participants from Industries, Consultants and Builders appreciated the initiative by SEEM and gave Excellent Feedback regarding the Course Content and Faculty.

The Course was inaugurated by Er. Parthasarathy, Director (Training) Chennai Metro water. Exercise working by Participants supported learning of the Theoretical Concepts. In this training course we had included the plant visit also. Visit to Chennai’s oldest (125 year old) water treatment plant, Kilpauk and latest State Of Art TET Plant at Koyambedu. This helped the participants to see the actual working of the plant. Chief Faculty Dr. R. Pannirselvam shared the Case Studies and useful Tips from his rich experience of over 6 decades. Leak Detection of Old Pipelines was demonstrated by Er. Selvakumar, Resource Faculty (Chennai Metro water). Practical Demonstration of Smart Water Flow meter (Latest Trends in Water Flow measurement) by Kristen Smart Flow meter, Hyderabad. In the second session of final day, participants shared their valuable experiences about the course. We had successfully completed the training course by distributed the certificates.

6. SEEM announces New National Management Council 2023-2026

SEEM’s 17th Annual General Body Meeting held at Hotel Babylon Capital on 19th April 2023. During the meeting, a new national management committee was elected for the term 2023-26.



Mr. R. Jayakumar
President



Prof. Mohan Khedkar
Vice President



Mr. G. Krishnakumar
General Secretary



Mr. Jayesh Darji
Treasurer



Mr. Anurag Bajpai
Joint Secretary



Dr. M. C. Jain
Immediate Past
President



Dr. C. S. Azad
Immediate past
General Secretary

7. Webinar on “Microgrid -A way forward for decentralized power generation using sustainable and clean energy”



Society of Energy Engineers and Managers, Karnataka Chapter conducted a presentation on “ Microgrid - A way forward for decentralized power generation using sustainable and clean energy ” on 13th May 2023, Saturday at 07:30pm to 8:30pm.

8. Webinar on “BEE Preparatory training for EA/EM Certification exam 2023 on June 12th, 2023, and June 19, 2023.

The Society of Energy Engineers and Managers (SEEM) organized two free online webinars titled "BEE Preparatory Training for EA/EM Certification Exam 2023" on June 12, 2023, and June 19, 2023, both at 8:00 PM IST. The presenter for both webinars was Mr. Bibek Roy, a Life Fellow of SEEM. The SEEM President, Mr. Jayakumar, and the General Secretary, Mr. G. Krishnakumar, participated in the webinar and shared their thoughts. Approximately 30 participants joined the first webinar, while 35 - 40 participants joined the second webinar, and both programs were conducted successfully.

9. Webinar on “Energy Efficiency in HVAC System” on 10th June 2023

Society of Energy Engineers and Managers, SEEM Karnataka Chapter organized a free webinar on “Energy Efficiency in HVAC System” on 10th June 2023, Saturday at 7:30- 8:30pm IST. **Mr. Srivathsa Ambale** was the presenter of the webinar. He is a graduate in mechanical engineering with 13 years of experience in Business development, Sales and Project Management. Presently working at 75F Smart Innovation Private Limited as DGM for Government and Infrastructure Business. Previously have worked at various MNC's such as Legrand, Hilti, Wipro- Northwest and Bluestar This presentation gives insights on

1. Energy Savings in HVAC System
2. Achieving the above through IoT technology and Cloud Computing

10. SEEM Student Chapter Adi Shankara College of Engineering Implements Solar Wireless EV Charging System

The SEEM Student Chapter Adi Shankara College of Engineering in Kalady has successfully implemented a Solar Wireless EV Charging System as part of their academic year project. Under the guidance of Ms. Remya K. P., Mr. Anandhakrishna P. S., Ms. Adithya Sachit Pai, Mr. Indrajith K., and Mr. Pranav Pradeep worked together to develop and execute this project.

The Solar Wireless Electric Vehicle (EV) Charging System is designed to harness solar energy and provide wireless power for EVs. The system consists of several components, including a wireless charging station, an

inverter, a battery storage system, and solar panels. Solar panels convert sunlight into electricity, which is then stored in the battery. The inverter transforms the DC energy stored in the battery into AC energy to power the wireless charging pad. Using magnetic induction technology, the charging pad transfers energy wirelessly to the EV without the need for physical connections or cables.



One of the significant advantages of this technology is its utilization of solar energy as a sustainable power source for electric vehicles. By reducing reliance on fossil fuels, this system contributes to a significant reduction in greenhouse gas emissions. Moreover, the versatility of the Solar Wireless EV Charging System allows for deployment in various locations, including homes, businesses, and public areas. This implementation marks an important step towards a sustainable future. The system offers an easy and effective approach to power EVs while mitigating their negative environmental impact. It represents a significant advancement in the field of sustainable transportation, revolutionizing the way we charge our vehicles.

11. Round Table Discussion on Energy Transition in Kerala's Electricity Sector organized by SEEM, Asar & Equinoct



Society of Energy Engineers and Managers (SEEM), in collaboration with Asar Social Impact Advisors Private Limited and Equinoct, hosted a Round Table Discussion focused on Energy Transition in Kerala's Electricity Sector. The event took place at the Mascot Hotel, Trivandrum on 9th June 2023, gathering industry experts, government officials, and stakeholders.

The program was inaugurated by Shri Jyothilal IAS, the Additional Chief Secretary, Power Department, Government of Kerala. His presence added prestige and importance to the discussion, setting the tone for a constructive exchange of ideas. Dr. R V G Menon,

Chairman of EMC; Dr. Ashok Sreenivas, Senior Fellow at Prayas (Energy Group); and Shri Ashish Fernandes, CEO of Climate Risk Horizons, were among the other notable speakers present.

Shri Jyothilal IAS, appreciated the report and highlighted the immense potential for Kerala to generate profits surpassing 9000 crores within a span of 5 years by making strategic investments in renewable energy sources that can effectively replace thermal power purchases. This insightful perspective shed light on the economic benefits of embracing sustainable and eco-friendly energy solutions.



The Round Table Discussion witnessed the active participation of distinguished individuals, including SEEM President Mr. R. Jayakumar, General Secretary Mr. G. Krishnakumar, SEEM Kerala Chapter Chairman Dr. Mohammed Shereef, EC Member Ms. Gayatri Nair, and Assistant Manager Ms. Saranya Mohan. Moreover, the event was graced by the presence of invited SEEM members and various government and non-government officials, who actively contributed to the discussion by sharing their thoughts and presenting valuable information.

The program concluded successfully at 4:30 PM, culminating in a productive and informative discussion that paved the way for a sustainable and resilient future.

12. SEEM Karnataka Chapter Organizes Successful Webinar on "Hydrogen – Future Energy Carrier"

The Society of Energy Engineers and Managers (SEEM) Karnataka Chapter conducted a highly informative and free webinar on "Hydrogen – Future Energy Carrier" on Saturday, the 8th of July, 2023. The virtual event took place from 7:30 pm to 8:30 pm, attracting a diverse audience of energy enthusiasts, professionals, and students. The webinar featured Mr. Rajendra Ninganuri, a renowned Senior Consultant with an impressive career spanning over 30+ years in the field of Engineering & Project management in Power & Energy, Steel, Petrochemical industry, and Insurance Surveys. Mr. Ninganuri's credentials include being a Mechanical Engineer and holding various certifications, such as AEA, CE, IISLA, and being a Government Approved Valuer. He is also a Life Member of SEEM, showcasing his commitment and dedication to the field of energy management.

Throughout the technical session, Mr. Ninganuri shared valuable insights into the world of hydrogen as a future energy carrier. The topics covered in the webinar encompassed various aspects of hydrogen, including its types, green hydrogen manufacturing technologies, storage and transportation technologies, as well as recent trends in hydrogen generation, storage, and distribution. The audience had the opportunity to grasp the benefits of utilizing hydrogen as an energy source and its crucial role in contributing to climate mitigation. The discussion of green hydrogen was particularly relevant, as it is a type of hydrogen produced using renewable energy sources like solar, wind, or hydroelectric power, making it an eco-friendly and sustainable energy option. The webinar attendees learned about the advancements in green hydrogen technologies and its potential to revolutionize the energy landscape.

The event proved to be a remarkable platform for attendees to enhance their understanding of hydrogen as an energy carrier and its far-reaching implications for various industries. As the world is increasingly focusing on transitioning to cleaner and greener energy solutions, the webinar served as a timely and crucial educational opportunity.

13. SEEM Successfully Organizes Energy Summit on 'Energy Transition in Transport Sector for Net Zero Future of Kerala'

The Society of Energy Engineers and Managers (SEEM) successfully organized the Energy Summit on 'Energy Transition in Transport Sector for Net Zero Future of Kerala' at the Kerala State Productivity Council hall. The summit brought together experts, industry leaders, and stakeholders to discuss the challenges and opportunities in achieving a sustainable and energy-efficient transport system for a greener future in Kerala.

The event commenced with a compelling Keynote Address by Dr. Harikumar R, Director of the Energy Management Centre, who also inaugurated the function. Dr. Harikumar emphasized the significance of energy transition in the transport sector and its crucial role in achieving Kerala's net-zero emissions goals.

Two informative technical sessions were presented by industry experts during the summit. Mr. Sajan P John, COO of Kochi Water Metro, discussed the promising future of electric boats in Kochi, highlighting their potential to revolutionize water transport. Additionally, Mr. Reji Ak, Deputy Manager-Project at Travancore Cochin Chemicals (TCC), shed light on the potential of hydrogen as the future fuel, underlining its importance in reducing carbon emissions in the transport sector.

Following the summit, the Annual General Meeting took place, during which the SEEM Kerala Chapter elected new Executive Council members to represent the organization. The Executive Council members will play a crucial role in shaping the future direction of SEEM Kerala Chapter and contributing to the organization's mission of promoting energy efficiency and sustainable practices in the region.



The newly elected Executive Council members and their respective roles are as follows:

- Mentor: Mr. Jose AP, Ernakulam
- Chairman: Mr. Vijayakumaran KM, Payyanur
- Secretary: Mr. Ashok KMP, Thrissur
- Treasurer: Mr. Richu Zachariah, Ernakulam
- Vice Chairman: Mr. Mohandas TV, Palakkad
- Vice Chairman: Mr. Shanavaz KM, Ernakulam
- Joint Secretary: Mr. Rajesh P, Ernakulam
- EC Member: Ms. Gayatri R Nair, Ernakulam
- EC Member: Mr. Krishnakumar G, Ernakulam
- Immediate Past Chairman: Dr. Mohammed Shereef E, Ernakulam

- Immediate Past Secretary: Mr. Azeem K, Trivandrum

The newly elected council members will work together to develop and implement initiatives that promote sustainable energy practices and accelerate the adoption of green technologies in the transport sector, furthering Kerala's progress towards a net-zero future.

14. SEEM Student Chapter AISAT Organizes State-Level Project Competition "AISE'23"



The Society of Energy Engineers and Managers (SEEM) Student Chapter at AISAT (Albertian Institute of Science and Technology) successfully organized a state-level B Tech student project competition titled "AISE'23." The competition, conducted in association with the Department of Electrical and Electronics Engineering (EEE) and the Innovation and Entrepreneurship Development Centre (IEDC), took place on 31st July 2023 at the A Block Einstein Hall.

AISE'23 showcased innovative projects designed and developed by talented B Tech students. Among them some notable projects were:

- Automated Agricultural Drone with AI-Based Crop Monitoring
- Automatic Pothole Detection and Filling System
- Automatic Rubber Latex Coagulation System
- Automatic Synchronization of AC Microgrids
- Condition Monitoring of Voltage Source Inverter
- Electric Go Kart

ingenuity, making it a remarkable event for all attendees.

The SEEM Student Chapter at AISAT aims to foster a culture of innovation, sustainability, and entrepreneurship among students, inspiring them to be the energy leaders of tomorrow. The collaboration with the Department of EEE and IEDC further enhanced the scope of the competition, encouraging interdisciplinary approaches to address contemporary challenges.

The competition provided a platform for young minds to present their creative solutions to real-world problems and explore advancements in energy, electronics, and automation. Participants demonstrated their technical prowess and

15. SEEM Student Chapter Adi Shankara College of Engineering Develops Tongue Motion-Controlled Wheelchair for Enhanced Mobility



The SEEM Student Chapter at Adi Shankara College of Engineering has achieved a significant milestone by successfully implementing a Tongue Motion-Controlled Wheelchair as part of their academic year project. Under the guidance of Dr. Sreena Sreekumar, a dedicated team comprising Ameena Shirin, Arjun P Subash, Basil K Joy, Hebin Henry, and Muhammed Faisal A A worked together to design and execute this groundbreaking assistive technology.

The Tongue Motion-Controlled Wheelchair represents a promising innovation for individuals with severe disabilities, empowering them to control their environment and regain some independence. This wired system uses a mouthpiece fitted with Hall Effect sensors and a tiny permanent magnet on the tongue, allowing the wheelchair to detect tongue motions in four directions - ahead, behind, left, and right. This innovative approach enables seamless navigation for individuals facing physical limitations.

Notably, the project was completed at a cost of under ₹15,000, making it an affordable solution for those in need. Additionally, the wheelchair's user-friendly design allows patients to operate it independently without assistance from a third party, enhancing their mobility and overall quality of life.

The SEEM Student Chapter's Tongue Motion-Controlled Wheelchair project demonstrates the power of engineering to address real-world challenges and improve the lives of individuals with disabilities. As the technology continues to evolve and gain recognition, it holds the potential to make a significant impact, granting individuals newfound freedom and autonomy in their daily lives.

16. SEEM National Leadership Workshop Fosters Interactive Discussions and Strategic Plans



The Society of Energy Engineers and Managers (SEEM) organized a highly successful National Leadership Workshop on 21st and 22nd July 2023 at RECCA CLUB, Kochi. The two-day event brought together around 20 National Executive Committee (EC) members, aiming to discuss various critical aspects and chart the path for the organization's future growth. The workshop

commenced with a warm welcome speech by Mr. G. Krishnakumar, the General Secretary of SEEM, followed by a motivating Presidential Address by Mr. R. Jayakumar. Delegates also introduced themselves, creating a conducive atmosphere for productive interactions.

The discussion session covered a wide range of topics, including Memberships, Student Chapters, New Projects & Programs, SEEM Awards, Certification Courses, and Chapter Development. The members actively participated in the session, sharing their valuable insights and ideas to shape the future of SEEM. A notable highlight of the workshop was the announcement of the re-launch of SEEM Magazine "Energy Manager," conveyed by Mr. G. Krishnakumar on behalf of Dr. C Jayaraman. The magazine's revival aims to provide a platform for sharing knowledge, best practices, and industry trends among energy professionals.

The workshop facilitated an interactive environment where all chapter leaders exchanged ideas and opinions, fostering a collaborative and strategic approach to achieve the organization's goals. With the successful completion of the National SEEM's commitment to advancing energy efficiency, sustainable practices, and fostering leadership in the energy sector. Leadership Workshop, SEEM is now better equipped to embark on a journey towards further growth and progress. The event proved to be a significant milestone, reinforcing.

Evaluating the country's thrust for reaching Net zero by 2070 and the overall sentiments in the country regarding energy efficiency, the delegates discussed how SEEM can play a significant role in this context. After discussion, it was decided to launch the campaign "De-carbonization India Alliance(DIA)". In this alliance, SEEM plans to rope in different stakeholder organizations. The workshop decided to work out details of this campaign and launch the same at the award function at New Delhi in September.

17. SEEM Karnataka Chapter Hosts Insightful Webinar on “Harmonics in Mains Network”

Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, organized a webinar on 9th September 2023 that provided valuable insights into the pressing issue of "Harmonics – A Virus in Mains Network." The event, held from 7:30 pm to 8:30 pm, garnered significant interest from professionals and enthusiasts in the energy sector.

The webinar delivered a comprehensive understanding of essential topics, focusing on power quality. Participants were introduced to the nuances of power qualities, issues associated with harmonics, effective identification methods, and mitigation techniques. These takeaways aimed to empower attendees with knowledge to enhance the stability and efficiency of electrical systems.

Mr. Jayaprakash Narayan, Chairman of SEEM Karnataka Chapter and Founder-Tech Head of e-Xcel Energy, led the session. With a distinguished academic background, including BE and MSc in Engineering from IISc, and affiliations with esteemed organizations like IEEE, IETE, and SHARE, Mr. Narayan brought a wealth of knowledge to the discussion. His previous roles as a scientist for the Government of India and leadership positions at Enercon Systems and Alarcity Electronics Limited added depth and credibility to the event.

The webinar's success was further accentuated by the interactive question and answer session, allowing participants to engage directly with Mr. Jayaprakash Narayan. Attendees posed questions, sought clarifications, and engaged in meaningful discussions, facilitating a deeper understanding of the subject matter.

In conclusion, the webinar organized by SEEM Karnataka Chapter served as a platform for disseminating crucial information about harmonics and power quality. It emphasized the importance of addressing harmonics-related challenges to ensure the reliability and efficiency of electrical systems. The event's success underscored SEEM's commitment to promoting knowledge and best practices in the field of energy management.

18. SEEM's E-Course on ECBC Compliance: Empowering Energy-Efficiency and Sustainability.

The Society of Energy Engineers and Managers (SEEM) conducted a comprehensive and enlightening e-course on October 25th and 26th, 2023, from 6:30 pm to 8:20 pm. The central focus of this course was to provide participants with the knowledge and tools necessary to achieve compliance with the Energy Conservation Building Code (ECBC), a pivotal step towards designing energy-efficient buildings, contributing to national energy conservation, and advancing career prospects in the energy management domain.

The key takeaways from this instructive e-course were twofold: first, a deep understanding of the fundamentals of ECBC 2017, and second, a grasp of the measures required for compliance. The overarching aims of the course were ambitious and impactful:

Address Growing Energy Consumption: By delving into strategies for addressing the escalating energy consumption in buildings, the course played a crucial role in conserving valuable resources.

Promote Energy-Efficient Building Design: The e-course empowered participants with insights into the principles and technologies that underlie the design of energy-efficient structures, a fundamental aspect of environmental sustainability.

Empower All Stakeholders: From architects to end-users, the course sought to equip all stakeholders in the construction and utilization of buildings with the knowledge to make informed, energy-conscious decisions, thereby fostering sustainability at all levels.

Government of India's Initiative: The e-course's alignment with the Indian government's long-standing energy conservation initiative, in operation since 2007, underscored the relevance and significance of ECBC compliance in the broader national context.

Discover Incentives: Participants had the opportunity to explore the various incentives offered by select states, encouraging ECBC compliance and sustainable practices that benefit both individuals and society at large.

Keep Up with Implementation: In light of the fact that 17 Indian states have already implemented ECBC standards, the course aimed to keep participants informed and prepared for the evolving energy efficiency landscape.

The e-course featured a distinguished speaker, Dr. Sonal Desai, whose extensive qualifications and accomplishments made her the perfect choice to lead the course:

Dr. Desai's dedication extends to her involvement in a Department of Science and Technology funded research project and her recognition as a "Young Woman Professional - Making Grass-Root Impact - Education" by the Cabinet Minister for Science & Technology in 2016. She is associated with a global community of over 5000 learners, further solidifying her role as a thought leader in energy management and sustainability.

In conclusion, SEEM's commitment to advancing energy management and sustainability was vividly demonstrated through this e-course. It served as a valuable platform for individuals looking to enrich their understanding and skills related to energy-efficient building design, with the goal of contributing to national energy conservation and unlocking new career prospects. Participants were encouraged to seize this unique opportunity to broaden their horizons, empower themselves, and actively participate in promoting energy efficiency and sustainability. Dr. Sonal Desai's expertise and the course's comprehensive coverage made it a crucial step in the journey towards a more sustainable and energy-efficient future.

19. SEEM India Energy Conclave Report



The Indian Energy Conclave 2023 was organized as part of the SEEM National Energy Management Awards 2021 on 21st September 2022 at the India Islamic Cultural Centre in New Delhi. Approximately 300 energy professionals attended the conclave.

The event commenced with a silent prayer, followed by a welcome address delivered by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar, National President of SEEM, then delivered the presidential address and officially inaugurated the event by planting a sapling, joined by other dignitaries. Smt. Vinuta Gopal-Asar felicitated the function. This opening ceremony was followed by the technical sessions.

The first session commenced with three distinguished speakers addressing the audience: Mr. Rohitkumar, Secretary General of the Carbon Markets Association of India, shared valuable insights on "Carbon Trading as a Tool for Achieving Net Zero." Mr. Ramachandran Senior Manager at NTPC, provided a comprehensive overview of "Global Hydrogen vehicle to Decarbonization." Mr. Vivek Agarwal, Chief Operating Officer at Godawari Power and Ispat Limited, enlightened us with innovative ideas related to "Artistic and Innovative Energy Conservation Concepts." A Q&A session followed these presentations, Mr. Jayakumar Nair, SEEM National President, had the honor of presenting mementos to Mr. Rohitkumar, Mr. V V Sivakumar, and Mr. Vivek Agarwal as a token of appreciation for their contributions.

The second session commenced with a presentation by Mr. Hari Balasubramanian, Business Development Director at Janitza Electronics GmbH, who discussed "Energy Monitoring for Efficiency." Following that, Mr. Shyam Raveendran, Managing Director of Sonel India Private Limited, presented on "Electrical Testing for Safety and Efficiency." Lastly, Mr. Guruprasad Raju, Senior Manager at Yaskawa India Pvt Ltd, shared insights

into "Low Harmonic Regenerative Solutions." A Q&A session followed these presentations, and Mr. G. Krishnakumar, General Secretary of SEEM, presented mementos to Mr. Hari Balasubramanian, Mr. Shyam Raveendran, and Mr. Guruprasad Raju.

The third session began with a presentation by Mr. K.K. Chakarvarti and Ms. Sanyukta Das Gupta on "Greening Industries: Industrial Decarbonisation – Insights from the IDEEKSHA (ASPIRE Programme)." Following that, Mr. Raj Kapoor, Founder of India Blockchain Alliance, spoke about "Blockchain and Energy Efficiency," and Mr. Chandra Shekar N S, Former President of ISHRAE, discussed "HVAC Energy Efficiency." A Q&A session followed these presentations, and Ms. Gayatri Nair, Chief of Jury, presented mementos to Mr. K.K. Chakarvarti, Ms. Sanyukta Das Gupta, Mr. Raj Kapoor, and Mr. Chandra Shekar N S.

In the final session, Mr. Sridhar Chidambaram, Principal Consultant at the Advanced Energy Group, presented on "Smart IoT." Mr. Amol Kalsekar, Chief Manager at the International Copper Association India, discussed "Electrify Safely with NEC 2023." Another Q&A session followed these presentations, and Mr. Anurag Bajpai, Joint Secretary of SEEM, presented mementos to Mr. Sridhar Chidambaram and Mr. Amol Kalsekar. Finally, Mr. Anurag Bajpai, Joint Secretary of SEEM, offered the vote of thanks.

20. SEEM Awards 2022 Report

SEEM National Energy Management Awards (SNEMA) 2022 took place on September 21, 2023, at the Indian Islamic Cultural Centre, New Delhi. The event was attended by numerous energy professionals from diverse sectors. Dr. Ashok Kumar, Deputy Director-General of the Bureau of Energy Efficiency, graced the occasion as the Chief Guest. Special Guests included Mr. K. K. Chakarvarti, Former Energy Economist, and Mr. S.P. Garnaik, Head Energy Efficiency and Green Finance Specialist at the Global Green Growth Institute. Awards in Platinum, Gold, Silver, and Star Performance categories were presented to deserving winners across various sectors, industries, facilities, corporates, and individuals, chosen by a national jury appointed by SEEM. This marked the 8th edition of SNEMA, with a significant increase in the number of awardees compared to previous years, receiving over 200+ nominations for SNEMA 2022.

The program commenced around 2:00 pm with a welcoming address by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar Nair, President of SEEM, delivered the presidential address. Ms. Gayatri Nair, Jury Chairman of SEEM Awards, explained the selection process and emphasized the commitment to recognizing quality and merit. Dr. Ashok Kumar, Deputy Director-General of BEE, inaugurated the event by planting a sapling alongside other dignitaries and felicitated the function.

In addition to SNEMA, our new project, the De-carbonization India Alliance (DIA), was successfully launched with the unfurl of a banner and the lighting of the dais. This launch featured distinguished individuals, including Mr. Rohit Kumar, Secretary-General of the Carbon Markets Association of India; Mr. Vivek Agarwal, Chief Operating Officer of Godawari Power and Ispat Limited; Shri. S.P. Garnaik, Regional Lead at the Global Green Growth Initiative; Mr. Hari Balasubramanian, Business Development Director at Janitza electronics GmbH; Mr. Shyam Raveendran, Managing Director of Sonel India Private Limited; Ms. Vinuta Gopal-Asar; Mr. Balwant Joshi of Idam Infrastructure; Mr. K.K. Chakarvarti of Idam Infrastructure; Mr. Raj Kapoor, Founder of India Blockchain Alliance; Mr. Yogesh Tadkar, President of ISHRAE; Mr. Mayur Karmarkar of the International Copper Association; and Mr. Rakesh Agarwal, a climate leader. This project aims to communicate widely and empower diverse initiatives, from small-scale to large-scale, in India's pursuit of the ambitious goal of achieving NetZero emissions by 2070 or earlier.



Moreover, our "Energy Manager" Magazine was relaunched during the award ceremony, with Shri. S.P. Garnaik, Regional Lead at the Global Green Growth Initiative, presenting the magazine to the Chief Guest, Dr. Ashok Kumar, Deputy Director-General of BEE.

Following these launches, the award distribution took place, with the following notable recipients:



Urjasree Award was received by Mr. R. Paraman, Director, Devki Energy Consultancy Pvt. Ltd., Gujarat.. Star SDA Award received by Chhattisgarh Renewable Energy Development Agency (CREDA), Energy Management Centre (EMC), Madhya Pradesh Urja Vikas Nigam Limited (MPUVNL). Star SEEM Chapter Award received by Tamil Nadu Chapter. Star Performance Award in Certified Energy Auditor category received by Mr. Bennet George, Mr. Aneesh Rajendran, and Mr. Sreekanth. Star Performance Award in Certified Energy Manager category received by Mr. Ramesh Chandra Patro. **SEEM Platinum Awards** were received by organizations such as Ipca Laboratories Limited, Madhya Pradesh, Hanon Automotive Systems India Pvt. Ltd, Tamil Nadu, Ashok Leyland Limited, Pantnagar, Uttarakhand, JSW Energy Ltd, Bellary, Karnataka, CPP 1215-Vedanta limited, Jharsuguda, odisha, Jindal Stainless (Hisar) Limited, Haryana, Godawari Power & Ispat Limited, Raipur, Apollo Tyres Limited, Perambra, Kerala, Apollo Tyres Limited, Kalamassery, Kerala, JK Tyre & Industries Ltd, Chennai Tyre Plant, Tamil Nadu, Shree Digvijay Cement Company Ltd, Jamnagar, Gujarat, Orient Cement Limited, Chittapur, Nuvoco Vistas Corporation Limited, Chittorgarh, Rajasthan, Birla corporation Limited Chittorgarh, KEC International Limited, Jaipur, Rajasthan, KEC International Limited – Nagpur, BILT Graphic Paper Products Ltd, Ballarpur Unit, Maharashtra, Vedanta Limited, Smelter-1, Jharsuguda, odisha, TATA Coffee Limited, TamilNadu, Godrej Consumer Products Limited, Madhya Pradesh, Carborundum Universal Limited , Ernakulam, Kerala, Ashok Leyland-Foundry Division, Sriperumbudur,Tamil Nadu, Dodla Dairy Limited, Palamaner, Andhra Pradesh, Malabar Regional Cooperative Milk Producers Union Ltd, Milma, Kerala, Bajaj Energy Limited, Uttar Pradesh, Schneider Electric India Pvt Ltd, Hyderabad , The Leela Palace Udaipur, Rajasthan, The Leela Palace, Chennai, Taj Club House, Chennai, ICICI Bank, Ambattur, Tamil Nadu, ICICI Bank , Cenotaph Tower, Tamil Nadu.

SEEM Gold Awards were received by organizations such as Apollo Tyres Limited, Chennai, Birla Century, Gujarat, Grasim Industries Ltd, Gujarat, JSW Steel Coated Products Limited, Vasind, Thane, Maharashtra, Centum Electronics Limited, Yelahanka New Town ,Bangalore, Centum Electronics Limited, Jala Hobali ,Bangalore, Marelli Powertrain India Pvt Ltd, Gurugram, Haryana, MSP Steel & Power Ltd, Raigarh, Bhushan Power & Steel , Odisha, Vedanta Limited 4x600 MW TPP, Jharsuguda, Odisha, RCCPL Pvt Ltd,Maihar, Madhya Pradesh, Ultratech cement Ltd, Unit : Birla white – Katni, Madhya Pradesh, Dodla Dairy Limited, Nellore, Andhra Pradesh, Ashok Leyland Limited, Ennore, Tamil Nadu, Nitta Gelatin India Limited, Thrissur, Kerala, The Supreme Industries, Madhya Pradesh, Saint-Gobain India Pvt Ltd, Palakkad, Kerala, Schneider Electric India Pvt Ltd, Bangalore, Grand Hotel, Kochi, Kerala, The Leela Palace , New Delhi, Taj Coromandel, Chennai, The Leela Palace , Jaipur, The Leela Palace , Bangalore, Holiday Inn, Kochi, Kerala, Quest Global Engineering Services Pvt Ltd, Trivandrum, Kerala, Quest Global Engineering Services Pvt Ltd, Bangalore, Allianz Services, Trivandrum, Rajagiri hospital, Kerala, Wadia Hospital, Mumbai, Vellore Institute of Technology, Vellore, Tamil Nadu, Adani Ahmedabad international airport limited, ICICI Bank Ltd, R V Road, Karnataka, ICICI Bank Ltd, Mythri Tower, Karnataka, ICICI Bank Ltd, Hebbal, Karnataka, ICICI Bank Ltd, Manipal branch, Karnataka, ICICI Bank Ltd, Basaveshwara Nagar, Karnataka, ICICI Bank Ltd, Malleshwaram wealth, Karnataka, ICICI Bank Ltd, Ootty , Tamil Nadu, ICICI Bank Ltd, CMH Road, Indira nagar , Karnataka.

SEEM Silver Awards were received by organizations such as JK Cement works , Jharli, Haryana, Zuari Cement Ltd, Chennai, JK Lakshmi Cement Ltd (Grinding Unit), Surat, Gujarat,Tata Consumer Products Ltd, Munnar, Kerala, KSB Mil Controls Ltd, Thrissur, Kerala, KEC International Limited, Jabalpur, Madhya

Pradesh, Starcare Hospital, Kozhikode, Kerala, Allianz Technology SE, Tower A, Pune, Maharashtra, Allianz Services, Tower B, Pune, Maharashtra, SLK Software Private Ltd, Karnataka, Christ College (Autonomous), Irinjalakuda, Kerala, Jaipur international airport limited, ICICI Bank Ltd, K D Road , Karnataka, ICICI BANK Ltd, Bellandur, Karnataka, ICICI BANK Ltd, Sri Rangam Branch, Tamil Nadu, ICICI BANK Ltd, Kothanur, Karnataka.

The presence of award winners and guests during the ceremony demonstrated the relevance and acceptance of SEEM Awards. The Indian Islamic Cultural Centre was filled with awardees and guests, and student volunteers from Sant Longowal Institute of Engineering.

21. Decarbonisation India Alliance (DIA)



The Decarbonisation India Alliance (DIA), led by the Society of Energy Engineers and Managers (SEEM) in collaboration with numerous esteemed organizations, is dedicated to reducing greenhouse gas emissions (GHGs) within the energy sector. This initiative responds to the urgent need to combat climate change and aligns with India's commitment to achieving net-zero emissions by 2070.

In this pursuit, DIA has crafted a comprehensive decarbonization strategy that harmonizes climate action with resilience-building measures. This strategy encompasses a multitude of areas within society, the economy, and the environment. By uniting leading industries, energy-efficient product manufacturers, service providers, policy organizations, and various stakeholders, DIA aims to expedite India's transition towards a carbon-neutral future. The alliance includes SEEM, Asar Social Impact Advisors, Carbon Market Association of India (CMAI), AMOS Group, Sonel, India Blockchain Alliance (IBA), Janitza, NGOs, industries, facilities, and others.

Officially launched on the 21st of September during the SEEM India Energy Conclave and Awards 2023 in New Delhi. Mr.G. Krishnakumar outlined a national action plan for decarbonization, emphasizing the importance of energy audits, training, collaborative programs, certifications, events, and studies to enhance audit quality and foster expertise recognition.

Priya Pillai, the Director of ASAR Social Impact Advisors, stressed the urgent need to engage industry stakeholders in the energy sector to reduce carbon emissions. She highlighted the potential of collaborative efforts, innovative solutions, and sustainable practices to not only lower emissions but also create a model for nationwide sustainable development.

R Jayakumar, President of SEEM, underscored DIA's role as a game-changer in accelerating India's journey toward net-zero emissions. It provides a comprehensive framework for coordinating, collaborating, and catalyzing efforts in this direction.

DIA represents a collective commitment to a greener, cleaner, and more sustainable future for India and the world.

22. SEEM signed MoUs with renowned organizations

SEEM, the Society of Energy Engineers and Managers, is delighted to announce a significant milestone in its commitment to sustainable energy practices by signing Memorandums of Understanding (MoUs) with two influential organizations: The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) and the India Blockchain Alliance (IBA).



SEEM and IBA



SEEM and ISHRAE

The first MoU with ISHRAE underscores a shared dedication to advancing energy-efficient HVAC and refrigeration technologies. This strategic partnership reflects SEEM's firm commitment to promoting sustainable practices within the heating, refrigeration, and air conditioning sectors. The collaboration seeks to catalyze a transition towards energy-conscious solutions, which are instrumental in reducing energy consumption and, by extension, contribute to environmental preservation. This alliance is not only a commitment to energy efficiency but also a tangible step toward addressing environmental challenges.

The second MoU with the India Blockchain Alliance (IBA) is a testament to SEEM's forward-looking approach in the digital age. Blockchain technology holds immense potential to revolutionize energy management and sustainability efforts. By joining forces with IBA, SEEM aims to explore innovative blockchain solutions for transparent, secure, and efficient energy management. This collaboration signifies SEEM's commitment to harnessing the power of blockchain to drive sustainability and bring transparency and efficiency to the energy sector. It is a visionary step towards shaping the future of energy management and ensuring a more sustainable and environmentally responsible path forward. These MoUs reinforce SEEM's mission to lead in sustainable energy practices and innovations.

23. SEEM's 'Electrify Safely' Initiative Promotes Electrical Safety and NEC 2023 Adoption"



The Society of Energy Engineers and Managers (SEEM) is actively addressing a critical aspect of sustainable energy management through its "Electrify Safely" initiative. The focus of this program is to propagate the National Electrical Code of India 2023 (NEC 2023) across the nation. NEC 2023 establishes essential standards and guidelines for electrical installations, ensuring their safety, reliability, and compliance with the latest industry standards. The safety and dependability of electrical systems are pivotal to

the success of decarbonization efforts, as any shortcomings in this domain can have far-reaching consequences. SEEM's "Electrify Safely" initiative aims to raise awareness and promote the widespread adoption of NEC 2023 throughout India by collaborating with industry stakeholders, regulatory bodies, and educational institutions. The ultimate goal is to cultivate a culture of electrical safety that benefits both individuals and organizations, advancing the cause of sustainable energy management.

24. Webinar on "Waste to Energy - A Feasibility Study for Food and Electrical Power Sustainability in India-2030"

The Society of Energy Engineers and Managers, Karnataka Chapter, recently organized a highly informative and forward-thinking webinar on the topic of "Waste to Energy - A Feasibility Study for Food and Electrical Power Sustainability in India-2030." The event, which took place on October 14, 2023, from 7:30 pm to 8:30 pm IST, featured an esteemed speaker, Dr. Babu Rajendra Prasad.

Dr. Prasad, an Assistant Professor in the Department of Electrical and Electronics Engineering at VVCE, Mysuru, holds impressive academic qualifications, including a Bachelor's degree in Electrical Engineering and a Master's degree in Power Systems. He has earned a Ph.D. with a specialization in "Operation and Control of Distributed Energy Resources in Electrical Distribution Systems" from VTU, Belagavi. Dr. Prasad's contributions to the field of energy engineering are commendable, including the filing of three patents and the publication of numerous research papers. His research areas encompass critical topics such as waste-to-energy, distributed energy resource management, and power quality.

The webinar provided a platform for participants to gain valuable insights into the feasibility of converting waste into energy, a critical aspect of India's drive towards sustainable food and electrical power solutions by the year 2030. Dr. Prasad's expertise and research in this area are poised to play a pivotal role in shaping the future of energy sustainability in the country.

This event garnered significant attention and drew participants from various sectors, all eager to learn and engage in discussions that could potentially revolutionize the approach to energy sustainability in India. In conclusion, the Society of Energy Engineers and Managers, Karnataka Chapter, succeeded in bringing together experts and enthusiasts in the field of energy engineering for an evening of learning and knowledge sharing. Dr. Babu Rajendra Prasad's valuable contributions and expertise left participants with a deeper understanding of the feasibility of waste-to-energy solutions and their potential to drive India's journey towards sustainable food and electrical power practices by 2030.

25. SEEM Karnataka Chapter Elects New Executive Council for 2023-2026

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, recently held its Annual General Meeting (AGM) and conducted elections to select a new executive council that will lead the organization for the period of 2023-2026. The elected council members, each bringing their unique skills and expertise to the table, represent a diverse group of professionals who are deeply committed to advancing the field of energy management and sustainability. The newly elected members of the executive council are as follows:

Mr. Benet George V -Chairman
 Mr. Anil Kumar – Secretary
 Mr. Rajendra Ninganuri- Treasurer
 Mr. Antony Gerald- Vice Chairman
 Mr. Suresh YB- Joint Secretary
 Mr. Jayaprakash Narayan - Mentor
 Mr. Abraham Varughese – Vice Chair - DIA
 Mr. Arini Srinivas – Vice Chair- Academia
 Mr. Govindaraju V – Vice Chair- Advocacy
 Mrs. Rajeswari Machandrappa – Vice Chair- Industry
 Mr. Srinivas Vaddamani – Vice Chair- Communications

SEEM Karnataka Chapter Executive Committee 2023-26



Chairman
Mr. Benet George V



Secretary
Mr. Anil Kumar Nadiger



Treasurer
Mr. Rajendra Ninganuri



Vice Chairman
Mr. Antony Gerald



Joint Secretary
Mr. Suresh Y B



Mentor
Mr. Jayaprakash Narayan



Vice Chair - DIA
Mr. Abraham Varughese



Vice Chair - Academia
Mr. Arini Srinivas



Vice Chair - Advocacy
Mr. Govindaraju V



Vice Chair - Industry
Mrs. Rajeswari Machandrappa



Vice Chair - Communications
Mr. Srinivas Vaddamani

This newly elected executive council is poised to guide SEEM's Karnataka Chapter in its mission to promote energy management, sustainability, and innovative practices in the state. With a diverse group of professionals, the chapter is well-positioned to make a significant impact in the field of energy management and further the goals of the Society of Energy Engineers and Managers. The incoming council members bring a wealth of experience and dedication to their respective roles, and their collective efforts are sure to contribute to the success and growth of SEEM's Karnataka Chapter in the coming years.

26. SEEM Karnataka Chapter Contributes to BEE's Carbon Market Workshop



Members of the Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, actively participated in the Bureau of Energy Efficiency's (BEE) Stakeholder Workshop on the Indian Carbon Market in Bengaluru on October 28. They shared their insights and expertise, emphasizing SEEM's commitment to decarbonization. Additionally, SEEM members had the opportunity to meet and engage with Sri. Saurabh Diddi, Director of BEE,

and Sri. Manjunath C. T, Assistant General Manager at Karnataka Renewable Energy Development Ltd, a government organization focused on advancing renewable energy solutions. This active involvement aligns with SEEM's dedication to driving sustainable energy practices and addressing the challenges of carbon emissions.

27. SEEM Magazine "Energy Manager" Relaunched During Award Ceremony

The Society of Energy Engineers and Managers (SEEM) made a significant announcement during an award ceremony as it relaunched its magazine "Energy Manager." The event was graced by Shri. S.P. Gar naik, Regional Lead at the Global Green Growth Initiative, who had the honor of presenting the newly revitalized magazine to the Chief Guest, Dr. Ashok Kumar, Deputy Director-General of the Bureau of Energy Efficiency (BEE).

The relaunched magazine promises to be a valuable resource for professionals, researchers, and industry experts as it delves into the latest trends, best practices, and success stories in the field of energy management. SEEM is poised to continue making meaningful contributions to the energy sector and the promotion of sustainable practices with "Energy Manager" magazine at its forefront.

The award ceremony, attended by luminaries in the field of energy efficiency and management, provided the ideal platform to reintroduce "Energy Manager." This magazine has long been a vital source of information, insights, and best practices for professionals and enthusiasts in the energy industry

Shri. S.P. Gar naik, an esteemed figure in the realm of green growth initiatives, proudly presented the first copy of the relaunched magazine to Dr. Ashok Kumar, Deputy Director-General of BEE. Dr. Kumar, with his extensive experience and knowledge in the energy sector, is a fitting Chief Guest and a symbol of the partnership between SEEM and BEE.

The revitalization of "Energy Manager" magazine demonstrates SEEM's dedication to advancing the exchange of ideas, innovations, and strategies for more sustainable energy management practices. This initiative aligns perfectly with the broader goals of SEEM and its mission to drive energy efficiency and environmental responsibility.

The relaunched magazine promises to be a valuable resource for professionals, researchers, and industry experts as it delves into the latest trends, best practices, and success stories in the field of energy management. SEEM is poised to continue making meaningful contributions to the energy sector and the promotion of sustainable practices with "Energy Manager" magazine at its forefront.

28. Society of Energy Engineers and Managers Hosts Insightful Webinar on Bamboo as an Alternative to Steel

In a bid to explore sustainable practices in the construction industry, the Society of Energy Engineers and Managers, Karnataka Chapter, organized a thought-provoking online webinar on "Bamboo as an Alternative to Steel, an Innovation to Reduce Carbon Footprint." The event took place on Saturday, November 11, 2023, from 7:30 pm to 8:30 pm IST.

The focal point of the webinar was the potential of bamboo as a green alternative to traditional steel in construction, emphasizing its capacity to significantly reduce the carbon footprint associated with building materials.

Dr. UMESHA P.K., the distinguished presenter for the evening, is a seasoned professional currently serving as a Professor in the Department of Civil Engineering at Vidyavardhaka College of Engineering, Mysore. With an extensive 40 years of experience in research and macadamia, Dr. UMESHA P.K. brings a wealth of knowledge to the table. His notable contributions include working with CSIR-SERC and active involvement in various projects.

The webinar unfolded with Dr. UMESHA P.K. delving into the innovative applications of bamboo in the construction sector. The presentation covered a spectrum of topics, including the environmental benefits of bamboo, its structural capabilities, and the ongoing research in this transformative field. Participants gained valuable insights into sustainable construction practices and the role bamboo can play in mitigating the environmental impact of conventional steel structures.

The webinar concluded with an engaging Q&A session, allowing participants to interact directly with Dr. UMESHA P.K. This segment provided a platform for attendees to pose questions, seek clarifications, and engage in a meaningful dialogue with the esteemed presenter.

The Society of Energy Engineers and Managers, Karnataka Chapter, has once again demonstrated its commitment to fostering awareness and understanding of sustainable energy practices. The webinar on "Bamboo as an Alternative to Steel" served as a catalyst for discussions on environmentally conscious construction methods.

The Chapter expresses its gratitude to Dr. UMESHA P.K. for sharing his expertise and to all participants for their active engagement. The success of the event underscores the growing interest and importance of sustainable practices in the energy and engineering sectors.

29. One-day Workshop On "Liquid Assets: Enhancing Efficiency Through water Audit And Conservation" Society of Energy Engineers and Managers, West Bengal Chapter, Facilitates Exam Preparation with Free Webinars

The Society of Energy Engineers and Managers, West Bengal Chapter, demonstrated its commitment to professional development by organizing two free webinars on November 19 and 24, 2023, at 8:00 pm IST. The webinars were specifically tailored to provide exam preparation training for the Bureau of Energy Efficiency (BEE) Energy Auditor (EA) and Energy Manager (EM) certifications.

The events, held at a convenient 8:00 pm time slot, aimed to support professionals seeking these certifications by offering valuable insights and guidance from expert speakers. Attendees had the opportunity to enhance their knowledge and skills in preparation for the BEE EA/EM examinations, fostering excellence in the field of energy management.

The Society of Energy Engineers and Managers, West Bengal Chapter, recognizes the significance of certification in advancing careers and contributing to the overall growth of the energy sector. By providing free training webinars, the chapter aims to empower individuals to excel in these certifications and contribute to sustainable energy practices.

30. Discussion on 'Right to Charge' Report to Accelerate Electric Vehicle Adoption and Charging Infrastructure Development"

In a significant stride toward sustainable energy practices, the Society of Energy Engineers and Managers (SEEM) joined forces with the Energy Management Centre – Kerala (EMC) and the International Copper Association India (ICAI) to address critical issues hindering the widespread adoption of electric vehicles (EVs) and the development of charging infrastructure. The collaborative effort culminated in submission of report and a comprehensive discussion on the 'Right to Charge' report, held at the chamber of the Additional Chief Secretary, Power Department, Sri. Jyothilal IAS on November 18, 2023, at 11:00 am.

The report meticulously outlined the bottlenecks currently impeding the seamless integration of EVs into mainstream transportation, shedding light on challenges in the charging infrastructure landscape. As part of their commitment to promoting sustainable energy solutions, SEEM, EMC, and ICAI sought to engage key stakeholders in a constructive dialogue before presenting the report to the government. Recognizing the necessity for a coordinated approach, it was recommended that a discussion meeting be conducted with representatives from vital departments. The meeting was attended by officials from the Energy Management Centre, Kerala State Electricity Board (KSEBL), the Agency for Non-Conventional Energy and Rural Technology (ANERT), the Kerala Motor Vehicle Department, ICAI and SEEM.

The insightful discussion allowed participants to share perspectives on the challenges outlined in the 'Right to Charge' report, fostering a deeper understanding of the complexities involved in EV adoption and charging infrastructure development. The engagement with representatives from KSEBL, ANERT, and the Motor Vehicle Department



underscored the commitment of all stakeholders towards creating an environment conducive to sustainable energy practices. It was a crucial step in aligning efforts to overcome obstacles and pave the way for a future where electric vehicles play a pivotal role in the transportation landscape.

With the 'Right to Charge' report serving as a catalyst for informed discussions, SEEM, EMC, and ICAI are poised to submit their findings and recommendations to the government, advocating for policies that will propel the growth of electric mobility and charging infrastructure in the region. This collaborative effort reflects the dedication of SEEM, EMC, and ICAI to fostering sustainable practices and driving positive change in the energy landscape, setting the stage for a more environmentally conscious and technologically advanced future.

31. SEEM and VIT Collaborate for Mega Event on Energy Decarbonization and Sustainability

In a concerted effort to shed light on the imperative journey towards a sustainable future, the Society of Energy Engineers and Managers (SEEM) joined hands with the Vellore Institute of Technology (VIT) to organize a day-long thought leadership event titled "Sustainability Horizons: A De-carbonization India Alliance (DIA) Tribute to India National Energy Conservation Day." The event, held on December 14, 2023, from 9 AM to 9 PM, aimed at exploring avenues for a greener future and fostering discussions on the pressing need for energy decarbonization.

With energy consumption and production contributing to approximately two-thirds of global greenhouse gas emissions, the event underscored the critical role of addressing climate change through innovative solutions for energy efficiency and decarbonization. Despite significant advancements in technologies like solar and wind energy, the world remains off-course to meet the Intergovernmental Panel on Climate Change's recommended two-degree Celsius temperature rise to avert severe consequences of climate change.



The event commenced with a warm welcome by Ms. Gayatri Nair, Former Chief Engineer at KSEB and an Executive Committee Member of SEEM. Subsequently, Mr. R Jayakumar, President of SEEM, introduced the audience to the concept of the Decarbonization India Alliance (DIA).

Various distinguished speakers shared their insights throughout the day, covering topics ranging from water audit for a sustainable future, decarbonization of the transport sector, electrical standards for sustainability, digital transformation in the energy sector, to energy conservation case studies in cooling towers and systems. Notable presentations included Dr. Indraj Singh on decarbonization in the transport sector, Mr. Shyam Raveendran on electrical standards, and Mr. Antony Gerald on enabling sustainability through digital technologies in buildings.

32. "Liquid Assets- Enhancing Operational Efficiency through Water Audit and Conservation"

As the world grapples with extreme weather events over the last decade, and in a world where water is an invaluable and finite resource, it has become imperative to manage and conserve this liquid gold. Water sustains ecosystems, fuels industries, and quenches the thirst of living beings.

The "Liquid Assets- Enhancing Operational Efficiency through Water Audit and Conservation" one-day program, conducted by the Kerala SEEM Chapter on December 4, 2023, at Sidra Pristine, Kochi, Kerala, in collaboration with the Energy Management Centre (EMC) and the Kerala State Productivity Council (KSPC), provided a comprehensive training initiative to educate a diverse audience about responsible water management.

The event also featured Dr. G. Subramanyam, Chairman of SEEM AP, Telangana, who discussed decarbonization in the industry, and Mr. Siddharth J P, from Itify Business Services, who delved into the PAT (Performance, Achieve & Trade) mechanism. Additionally, Mr. Bibek Roy explored the role of energy efficiency in achieving decarbonization and net-zero goals.

The enlightening sessions concluded with a vote of thanks by Dr. K. Palanisamy, Deputy Director-Electrical Maintenance and Projects in-charge at VIT, expressing gratitude to all participants for their valuable contributions. The event successfully brought together experts, professionals, and enthusiasts to collectively explore solutions for a sustainable and decarbonized energy future. With active participation from industrial

and commercial establishments, the primary goal was to educate individuals on water audit fundamentals, efficiency strategies, conservation initiatives, and real-world applications. This was accomplished through sessions led by two esteemed personalities, Ms. Sandhya V G, Deputy Director, National Productivity Council, and Mr. NK Kuttiappan, Former Senior Deputy Director, National Productivity Council, Chennai.



33. Society of Energy Engineers and Managers, Karnataka Chapter Empowers Energy Efficiency: A Comprehensive Webinar on Transitioning from EFF to IE Level Motors

The Society of Energy Engineers and Managers, Karnataka Chapter, hosted an insightful online webinar on "Energy Efficiency in Motors: Transition from EFF level to IE level" on December 9, 2023. The event, which took place from 7:30 pm to 8:30 pm IST, drew participants from various sectors interested in optimizing energy consumption and enhancing motor efficiency. The webinar, open to all and free of charge, provided a platform for professionals, students, and enthusiasts to delve into the crucial topic of energy efficiency in motors. The session aimed to shed light on the transition from EFF (Energy Efficiency Factor) level to IE (International Efficiency) level, emphasizing the importance of adopting higher standards in motor efficiency.

Mr. Venkatakrishna, a seasoned professional with over 45 years of experience in Services, Erection, and Commissioning of Mechanical and Electrical Systems, served as the distinguished presenter for the evening. Currently working as a Channel Partner and Demand Aggregator for Energy Efficiency Services Ltd. (EESL) in New Delhi, Mr. Venkatakrishna specializes in their National Motor Replacement Program (NMRP). His expertise extends to energy-efficient IE3 Motors and various other products, including LED Lighting, Super Efficient Air Conditioners, BLDC Sealing Fans, and Electric Vehicles (EV) Cars & Charging Stations.

The presentation by Mr. Venkatakrishna provided valuable insights into the practical aspects of transitioning to IE level motors and the overall significance of energy-efficient technologies in various applications. The session was marked by an engaging Q&A session at the end, allowing participants to interact directly with the presenter and further enrich their understanding of the subject.

The Society of Energy Engineers and Managers, Karnataka Chapter, expressed gratitude to Mr. Venkatakrishna for his informative and enriching presentation, which contributed significantly to the success of the webinar. The event underscored the organization's commitment to fostering knowledge-sharing and promoting sustainable practices in the field of energy engineering.

34. Preparatory Courses for BEE Energy Manager/Auditor examination

Society of Energy Engineers and Managers, West Bengal Chapter, will be organizing preparatory courses for the upcoming Bureau of Energy Efficiency (BEE) Energy Manager/Auditor examination.

Duration: December 2023 to February 2024

35. Webinar on “Harmonics Standards - Things to know and Why it is important?”

36.

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, organized a comprehensive online webinar on "Harmonics Standards - Things to Know and Why it is Important?" on January 13, 2024. The event took place from 7.30 pm to 8.30 pm IST and was accessible to all, free of charge.

The featured presenter for the evening was Mr. Praween Kumar, a distinguished Power Quality Consultant currently associated with Schneider Electric. Mr. Kumar boasts over a decade of experience in the power quality and energy field. Before joining Schneider Electric, he served as an Engineer specializing in Advanced Power Quality Solutions at In phase Power Technologies. Additionally, Mr. Kumar has co-founded Emerich Energy Private Limited and Five Gee Energy Private Limited.

The webinar delved into the significance of Harmonics Standards, exploring the intricacies of standards such as IEEE519, IEEE1159, IEEE1250, IEEE1547, and IEEE-P2800. Attendees had the opportunity to gain insights into Mr. Kumar's extensive expertise and practical knowledge acquired over the course of his dynamic career.

The webinar concluded with an engaging and interactive Q&A session, allowing participants to pose questions to Mr. Praween Kumar directly. The session provided a platform for attendees to deepen their understanding of harmonics standards and their relevance in the energy sector.

SEEM, Karnataka Chapter, expressed gratitude to Mr. Kumar for sharing his wealth of knowledge and thanked the participants for their active engagement in making the event a success. The society reaffirmed its commitment to organizing informative sessions that contribute to the professional development of its members and the broader energy community

37. ISHRAE Mysore Chapter Hosts National Program "Urjavarani" in Collaboration with SEEM Karnataka Chapter



The Mysore chapter of the Indian Society of Heating Refrigerating and Air Conditioning Engineers (ISHRAE) successfully organized the national program "Urjavarani" on December 9, 2023, at a private hotel in Mysore. "Urjavarani" focused on technical aspects related to energy, environment, and decarbonization, bringing together approximately 125 delegates from various industries, academia, and government sectors.

Notably, the Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, a Memorandum of Understanding (MOU) partner, actively participated in the event following an invitation. The involvement of SEEM added significant value to the program, as it continues to be a prominent player in the energy sector.

SEEM Karnataka Chapter Chairman, Sri Benet George, and Secretary, Anil Kumar Nadiger, played pivotal roles in a panel discussion during the event. Their expertise contributed to insightful discussions on the challenges and opportunities in the field of energy, environment, and decarbonization.

In addition to participating in the panel discussion, SEEM took advantage of the platform to create awareness about its ongoing activities and initiatives. The organization seized the opportunity to promote its membership and interact with the diverse group of delegates present at the event.

A dedicated space was allocated to SEEM to engage with attendees, facilitating meaningful discussions on energy-related topics and showcasing the society's commitment to advancing the field. The interactions allowed SEEM to share valuable insights and connect with professionals from different sectors, fostering collaboration and knowledge exchange.

The event proved to be a successful convergence of industry experts, academics, and government representatives, providing a platform for dialogue on crucial issues related to energy efficiency and sustainability. ISHRAE Mysore Chapter expressed gratitude to SEEM Karnataka Chapter for its active participation and contribution to the success of "Urjavarana."

38. Right 2 Charge Book Launch at International Energy Festival of Kerala (IEFK) 2024



The International Energy Festival of Kerala (IEFK) 2024, held on February 7, 2024, reached a historic milestone with the launch of the book "Compendium of Recommendations on Policy Interventions in EV Charging Infrastructure - Kerala and Draft Guidelines for Building Byelaws." This momentous occasion unfolded as part of the Right 2 Charge project, a collaborative effort spearheaded by the Society of Energy Engineers and Managers (SEEM), Energy Management Center (EMC), and the International Copper Association India (ICAI).

Mr. Mayur Karmarkar, Managing Director of ICAI, presented the book to Mr. Vinod G, Chief Electrical Inspector, Government of Kerala, marking a pivotal moment in the regional drive towards sustainable energy practices. The book, a comprehensive compendium, reflects the collective expertise and insights of the collaborating entities, providing valuable recommendations on policy interventions in Electric Vehicle (EV) charging infrastructure and guidelines for building byelaws in the state.

The event witnessed the distinguished presence of key figures, including Mr. Hemanth Kumar, Director ICA India, Mr. Mohammed Shereef, Former Chairman of SEEM Kerala chapter, Mr. G. Krishnakumar, General Secretary SEEM, Smt. Gayatri Nair, National Executive Member of SEEM, and numerous SEEM members. Their active involvement underscores the united commitment towards fostering sustainable energy solutions and promoting awareness in the region.

The collaborative effort showcased in the launch of the "Compendium of Recommendations" reinforces IEFK 2024 as a catalyst for positive change in the energy landscape. The book serves not only as a valuable resource for policymakers and industry experts but also as a testament to the collective vision for a future powered by sustainable energy practices. As the International Energy Festival continues, it stands as a beacon of innovation and collaboration in the pursuit of a greener and more sustainable future for Kerala.

39. Inauguration of SEEM Student Chapter at Jyothi Engineering College, Cherthuruthy

On March 7, 2024, the inauguration of the student chapter of the Society of Energy Engineers and Managers (SEEM) took place at Decennial Hall in Jyothi Engineering College. The event aimed to formally introduce SEEM to Jyothi Engineering College. The event was attended by students from the Electrical & Electronics Engineering (EEE) department, as well as members of SEEM.

The program began at 2:15 pm with a welcoming speech by Dr. Jenson Jose, Head of the Electrical & Electronics Department. Dr. Jose P Therattil, Principal of JECC, gave an encouraging speech, expressing his full support for SEEM's upcoming activities.

Mr. Ashok K.M.P, Secretary of SEEM Kerala Chapter and Project Director at Athul Energy Consultants Pvt. Ltd, officially inaugurated the student chapter by lighting the lamp. He highlighted the critical role of SEEM in promoting sustainable practices and energy management in the industry.

Fr. Dr. Jose Kannampuzha, Academic Director of JECC, in his speech stressed on the importance of conserving energy in today's world. Ms. Della David, Certified Energy Auditor, shared her experiences in energy auditing, adding valuable insights. The official part of the event ended at 3:00 pm with a vote of thanks from Mr. Geo Paul, student representative..

40. Karnataka Chapter Hosts Successful Webinar on Energy Efficiency in Comfort Air Conditioning

The Society of Energy Engineers and Managers, Karnataka Chapter, recently conducted an illuminating webinar titled "Energy Efficiency in Comfort Air Conditioning by VRF System" on Saturday, 9th March 2024. The event, which ran from 7:30 pm to 8:30 pm IST, garnered significant attention from professionals and enthusiasts alike. The webinar, which was freely accessible to all, served as a platform for participants to delve into the intricacies of energy-efficient practices in the realm of comfort air conditioning, particularly focusing on Variable Refrigerant Flow (VRF) systems. The distinguished presenter for the evening was Sri Manjunath, a seasoned mechanical engineer boasting over 19 years of extensive experience across various sectors of the HVAC industry. Manjunath commenced his illustrious career at Sudha Engineers, where he served as an application engineer. Over the years, he diversified his expertise, venturing into project execution, sales, and business development roles. Presently, he holds the esteemed position of Senior Manager in the VRF Division at Mitsubishi Electric, a testament to his profound knowledge and invaluable contributions to the field. Throughout the session, Manjunath captivated the audience with his profound insights and practical wisdom gleaned from years of hands-on experience. He elucidated on the significance of energy efficiency in air conditioning, particularly highlighting the pivotal role played by VRF systems in optimizing comfort while minimizing energy consumption. Attendees were treated to an enriching discourse encompassing various facets of energyefficient HVAC solutions, ranging from design considerations to operational best practices. Manjunath's comprehensive understanding of the subject matter, coupled with his adept presentation skills, ensured an engaging and informative experience for all participants. The webinar concluded on a high note, leaving attendees with a deeper appreciation for the pivotal role of energy-efficient technologies in shaping the future of air conditioning. Participants departed with newfound knowledge and actionable insights, poised to implement sustainable practices in their respective endeavors. The success of the webinar underscores the Karnataka Chapter's unwavering commitment to fostering knowledge exchange and professional development within the energy management sphere. Such initiatives serve as catalysts for innovation and progress, driving towards a more sustainable and energy-conscious future.

41. Online webinar on "Supraharmonics"

The Society of Energy Engineers and Managers, Karnataka Chapter, recently organized a compelling online webinar titled "Supraharmonics" on April 13th, 2024. Open to all participants at free of cost, the event aimed to explore various dimensions of supraharmonics and their implications in the energy sector. The webinar covered key takeaways, including understanding supraharmonics, identifying their sources, techniques for recording them, and analyzing their impact on green energy integration. Mr. Praween Kumar, serving as a Power Quality Consultant at Schneider Electric, led the session. With over a decade of experience in the power quality and energy fields, Mr. Kumar brought invaluable insights to the discussion. His previous roles at Inphase Power Technologies and his tenure as Co-Founder of Emerich Energy Private Limited and FiveGee Energy Private Limited showcased his expertise and dedication to the industry. During the webinar, Mr. Kumar elucidated on standards such as IEEE519, IEEE1159, IEEE1250, IEEE1547, and IEEE-P2800, enriching the discussion with technical precision and depth. Attendees gained insights into supraharmonics'

nature, sources, recording methodologies, and their impact on the integration of green energy solutions. The webinar served as a platform for knowledge exchange and professional development, empowering participants to navigate challenges and optimize energy management strategies effectively. The Society of Energy Engineers and Managers, Karnataka Chapter, continues to demonstrate its commitment to fostering learning and collaboration in the energy sector through such initiatives. By facilitating discussions on emerging topics like supraharmonics, the chapter aims to drive innovation and promote sustainable practices within the industry.

42. Online webinar on “From ideas to Patent” “Procedures, cost and insights into my work on Dual input Buck, Boost and Inverter mode Switched Capacitor based Voltage Converter”

The Society of Energy Engineers and Managers, Kerala Chapter, recently convened an online webinar on April 20, 2024, shedding light on the journey "From Ideas to Patent" and offering insights into the intricate procedures, costs, and innovations surrounding Dual Input Buck, Boost, and Inverter Mode Switched Capacitor-based Voltage Converters. Held from 7:30 pm to 8:30 pm IST, the webinar served as a platform for knowledge exchange and collaboration within the energy engineering domain. Dr. Chikku Abraham, Vice-Principal and Associate Professor at Muthoot Institute of Technology and Science in Kochi, Kerala, took the helm as the distinguished presenter. Dr. Abraham, a certified Energy Manager recognized by the Bureau of Energy Efficiency, Ministry of Power, Government of India since 2004, brought a wealth of expertise to the discussion. Attendees gained invaluable insights into the process of transforming innovative concepts into tangible patents, with a keen focus on understanding the intricacies of patent acquisition. Furthermore, Dr. Abraham delved into the technical nuances, procedures, and costs associated with his groundbreaking work on Dual Input Buck, Boost, and Inverter Mode Switched Capacitor-based Voltage Converters. The webinar, offered free of charge and open to all interested individuals, underscored the Kerala Chapter's commitment to fostering collaboration and knowledge dissemination within the energy engineering community. As attendees departed with a deeper understanding of patent acquisition processes and cutting-edge voltage converter technologies, the event marked a significant milestone in advancing the field of energy engineering in Kerala and beyond.

43. SEEM West Bengal Chapter Elected New Office Bearers 2024

In a significant development for the energy sector in West Bengal, the launching meeting of the SEEM (Society of Energy Engineers and Managers) West Bengal chapter was convened on April 12th, 2024, via the Google Meet platform. The virtual gathering saw the participation of esteemed members from both the SEEM National body and the newly formed West Bengal chapter, including life members. The primary objective of the meeting was to facilitate introductions between SEEM National body members and their counterparts from the West Bengal chapter. Additionally, the meeting aimed to elect key office bearers in adherence to SEEM guidelines and byelaws. Mr. Bibek Roy, representing the West Bengal chapter, extended warm greetings to all attendees and then handed over the proceedings to Mr. Krishnakumar, General Secretary of SEEM, to steer the meeting forward. Mr. Krishnakumar initiated the introduction session, during which all participants had the opportunity to introduce themselves, fostering a sense of camaraderie and motivation among the members. Following the introduction session, Mr. Krishnakumar announced the names for the key office bearer positions: Chairman: Mr. Bibek Roy Secretary: Mr. Tapan Kumar Bhattacharya Treasurer: Mr. Nityananda Jha

These appointments were officially ratified by Mr. Jayakumar Nair, the National President of SEEM. The members of the SEEM National body expressed their wholehearted support for the newly formed West Bengal Chapter, signaling a promising collaboration between the two entities. The meeting concluded with a Vote of Thanks delivered by Mr. Tapan Kumar Bhattacharya, expressing gratitude to all participants for their contributions and support towards the successful launch of the SEEM West Bengal Chapter. The establishment of the SEEM West Bengal Chapter marks a significant step towards fostering energy management and engineering practices in the region, promising a brighter and sustainable future for the state's energy landscape.

44. Visat Engineering College Hosts Successful Event on Energy Efficiency and Conservation"

In an effort to promote awareness and understanding of energy efficiency and conservation in the power generation industry, Electrical and Electronics Engineering Department, Visat Engineering College, organized a significant event titled "RENEWWE 24" on March 15, 2024. The event, which took place from 2:00 pm to 4:00 pm, featured a comprehensive expert talk and the inauguration of a new department association. Moreover, amidst the insightful discussions, Mr. Rajesh P inaugurated the "RENEWWE-24" association of the EEE department. This newly established association is dedicated to promoting awareness and initiatives concerning renewable energy and sustainable practices among students and faculty members. With a focus on fostering a culture of environmental consciousness, RENEWE-24 aims to inspire the engineering community to embrace sustainable solutions and practices. The session commenced with an enlightening expert talk on the topic of "Benchmarking Energy Efficiency and Energy Conservation in Power Generation Industry." Mr. Rajesh P, the Joint Secretary of SEEM Kerala Chapter and a Certified Energy Auditor, graced the occasion as the guest speaker. Leveraging his extensive expertise, Mr. Rajesh shared invaluable insights, providing students with a deeper understanding of the challenges and opportunities inherent in enhancing energy efficiency within the power generation sector.

Moreover, amidst the insightful discussions, Mr. Rajesh P inaugurated the "RENEWWE-24" association of the EEE department. This newly established association is dedicated to promoting awareness and initiatives concerning renewable energy and sustainable practices among students and faculty members. With a focus on fostering a culture of environmental consciousness, RENEWE-24 aims to inspire the engineering community to embrace sustainable solutions and practices.

45. "Urjakiran Energy Conclave 2024 Enlightens Palakkad on Sustainable Energy Practices

The picturesque ambiance of Legacy Homestay in Malampuzha, Palakkad, resonated with discussions, insights, and initiatives during the two-day Urjakiran Energy Conclave 2024 held on March 22nd and 23rd. The event, meticulously organized, aimed at fostering awareness and collaboration towards sustainable energy practices, attracting participants from various sectors. The inaugural session, marked by the enchanting rendition of Sandesha Geetham, commenced at 9:30a.m. across all venues, setting a harmonious tone for the proceeding activities. The technical sessions, a highlight of Day 01, delved into crucial sectors. The Building Sector discussions took place at Legacy Homestay's A.C Hall, while the Industrial Sector discussions unfolded at Hotel Tripenta Conference room, both running from 10:00 a.m to 5:30 p.m. Notably, an insightful Awareness Program targeting the Domestic Electricity Consumers Association (DECA) emphasized energy conservation and the Urja Kiran initiative. Er. Sasi Kottayil and the team from the Energy Conservation Society (ECS) - Idukki Chapter spearheaded this session at the Legacy Homestay Outdoor Stage.

Simultaneously, an impactful Awareness Campaign catered to the agricultural and farming community, addressing pertinent issues within the power sector. Dr. Thomas George and the LEAD College team orchestrated this significant engagement, drawing attention to sustainable energy practices vital for the agricultural sector's prosperity. The presence of Er. N.N.S.S Rao, Chief Engineer cum Executive Director, Palakkad project zone, CPWD, Palakkad, as the Guest of Honour added prestige to the occasion. A constellation of luminaries, including Mr. G. Krishnakumar, Dr. C. Jayaraman, Dr. Sasi K. Kottayil, Dr. Appavo, Er. Manu Varkey, Dr. Janesh N. Mohanan, Mr. Shyam Ravindran, Er. Hari Balasubramaniam, and Er. Rajan Menon, enriched the event as speakers and panelists. Their expertise and insights contributed profoundly to the diverse discussions and deliberations, fostering a vibrant atmosphere of learning and collaboration. The Urjakiran Energy Conclave 2024 concluded on a high note, leaving an indelible imprint on the consciousness of Palakkad, catalyzing a collective resolve towards a sustainable energy future.

46. Karnataka Chapter organizing Webinar on "Selection criteria of CTs and PTs for measurement & protection"

The Society of Energy Engineers and Managers, Karnataka Chapter, hosted an online webinar titled "Selection Criteria of CTs and PTs for Measurement & Protection" on May 11th, 2024, from 7:30 pm to 8:30

pm IST. The webinar, open to all and free of charge, aimed to provide valuable insights into the selection criteria of Current Transformers (CTs) and Potential Transformers (PTs) for accurate measurement and protection in electrical systems. The distinguished presenter for the evening was Mr. Ramesh N Shastry, Founder and CEO of Magnatech, a globally recognized leader in magnetics technology. Mr. Shastry, known for his deep involvement in industry initiatives, holds executive positions in prestigious organizations such as the Consortium of Electronic Industries of Karnataka (CLIK) and KASSIA. His commitment to excellence extends beyond business, focusing on fostering teamwork, ensuring customer satisfaction, and engaging with the community. The webinar highlighted Mr. Shastry's expertise in the field, offering attendees valuable insights into the latest industry standards and best practices. Participants engaged in interactive discussions, gaining a deeper understanding of CTs and PTs selection criteria. The event showcased SEEM Karnataka Chapter's dedication to knowledge dissemination and professional development within the energy management sector, leaving attendees with practical knowledge to enhance their practices.

47. Report of Decarbonisation India Alliance (DIA) Ten City Campaign (TCC) at Raipur

The inaugural event of the Decarbonisation India Alliance (DIA) Ten City Campaign, an initiative of Society of Energy Engineers and Managers (SEEM), in collaboration with Asar, and the India Blockchain Alliance (IBA), took place on June 14, 2024, at Babylon Capital, Raipur. This significant event, which aims to drive decarbonisation efforts across various sectors in India, was ceremonially inaugurated by Mr. Sumit Sarkar, CEO of the Chhattisgarh Biofuel Development Authority, by watering a sapling and launching the DIA website. In his keynote address, Mr. Sarkar highlighted Chhattisgarh's commitment to a comprehensive industrial policy with a focus on green hydrogen and diverse biofuels, emphasizing that the launch of the DIA's ten-city event marks a critical step in collective climate action efforts.

The event featured the 'Awake, Arise, Decarbonise' sensitisation camp, attended by 85 engineering professionals from sectors including hospitals, iron & steel, cement, and hotels. Participants were engaged through presentations from Tata Power Renewable Energy Pvt. Ltd., Ampin Energy, MCJ Associates, See Tech Solutions Pvt. Ltd., Godawari Power & Ispat Ltd and Technovations. These sessions provided insights into innovative decarbonisation technologies and strategies. The presentations were followed by a panel discussion that synthesized key points from the various entities, focusing on practical solutions and future directions for decarbonisation.

Mr. R. Jayakumar, National President of SEEM and Director of DIA, facilitated discussions that led participants to outline preliminary decarbonisation plans for their respective organizations. These initial plans are set to be further refined with input from CEOs and mentors to ensure effective implementation. The session garnered significant stakeholder attention and participation, with enthusiastic feedback from attendees. A notable highlight was the report from one CEO who attended the evening session after being urged by her team, who were highly energized by the morning's activities.

Mr. R.K. Gupta, Assistant Vice President at M/s SKS ISPAT & Power Ltd., expressed his full satisfaction with the event, commending the DIA for its potential to drive substantial reductions in emissions and facilitate transformative changes on the ground. He extended his best wishes for the successful implementation of DIA's initiatives.

The CEO Sustainability Forum in the evening was attended by industry leaders from various sectors including hospitals, iron & steel, cement, and hotels. These CEOs committed to supporting and participating in DIA's ongoing efforts. The Raipur edition of the Ten City Campaign received support from the Department of Industries, Government of Chhattisgarh, the Chhattisgarh State Renewable Energy Development Agency (CREDA), The Climate Project Foundation, Godawari Power & ISPAT, Tata Power Renewable Energy Pvt. Ltd., Ampin Energy, and SeeTech Solutions Pvt. Ltd. Mr. Sanjeev Jain- Chairman , SEEM Chhattisgarh chapter, Mr. Bibek Roy , National coordinator DIA, Mr. M C Jain, former President SEEM, Mr. Rajeev Gyani, Mr. Nihar Ranjan Sahoo worked closely and dedicatedly along with SEEM HO team to make the event successful.

Overall, the Raipur event effectively laid the foundation for DIA's ambitious decarbonisation campaign, fostering crucial dialogues and engaging key stakeholders in the path toward a sustainable, low-carbon future.

48. Report of Decarbonisation India Alliance (DIA) Ten City Campaign (TCC) at Kochi

The second event of the Decarbonisation India Alliance (DIA) Ten City Campaign series, an initiative of the Society of Energy Engineers and Managers (SEEM), in collaboration with ASAR and the India Blockchain Alliance (IBA), took place on July 10, 2024, at Hotel Renai, Kochi. This significant event, which aims to drive decarbonisation efforts across various sectors in India, was ceremonially inaugurated by Mr. Binilal, Director of Kerala State Productivity Council, who watered a sapling. In his inaugural address, Mr. Binilal highlighted the linkages between productivity and decarbonisation, emphasizing several opportunities for collaboration between DIA and KSPC. He underscored that the launch of DIA's ten-city event marks a critical step in collective climate action efforts. His Worshipful Mayor of Kochi, Adv. Anilkumar, who was scheduled to inaugurate the event, joined belatedly and shared his initiatives for making Kochi more sustainable, emphasizing its vulnerability to environmental challenges.

The event featured the 'Awake, Arise, Decarbonise' sensitisation camp, attended by 85 engineering professionals from sectors including hospitals, iron & steel, cement, other industries, and hotels. Participants engaged through presentations from Tata Power Renewable Energy Pvt. Ltd., Kerala State Productivity Council, Ms. Athul Energy Consultants Pvt Ltd, M/s Chilton Refrigeration Pvt Ltd, M/s Alphageek, and M/s Evergreen Technologies Pvt Ltd. These sessions provided insights into innovative decarbonisation technologies and strategies. Mr. R. Jayakumar, National President of SEEM and Director of DIA, facilitated discussions that led participants to outline preliminary decarbonisation plans for their respective organizations. The participants were grouped by sector and actively engaged in this exercise, finding inspiration to consider decarbonisation within their organizations. DIA mentors will follow up on these initial plans, refining them with input from CEOs and mentors to ensure effective implementation. The session garnered significant stakeholder attention and participation, with enthusiastic feedback from attendees.

The evening session, which saw the formation of the CEO Sustainability Forum for Kerala, witnessed active participation from CEOs and decision-makers across different sectors. The session was inaugurated by Dr. Harikumar, Director of Energy Management Centre, Kerala.

In his inaugural speech, Dr. Harikumar made several points that resonated with the CEOs present. He emphasized that businesses failing to anticipate and positively respond to changes are likely to falter. He highlighted the challenge of carbon emissions and the government's exhortation to combat them, noting India's pledge to go carbon neutral by 2070 and Kerala State's target by 2050, urging industry and commerce to see these as opportunities. CEOs were encouraged to utilize the services offered by DIA to thrive in a green future. Dr. Harikumar pledged full support to DIA and described government financial schemes that encourage actions for emission mitigation.

The CEO Sustainability Forum in the evening was attended by industry leaders from various sectors, including hospitals, iron & steel, cement, and hotels. These CEOs committed to supporting and participating in DIA's ongoing efforts. The Kochi edition of the Ten City Campaign received support from the Energy Management Centre, Kerala, the State Designated Agency of Bureau of Energy Efficiency, The Climate Project Foundation, Kerala State Productivity Council, Rubber Parks, Infoparks Kerala, KINESCO, Tata Power Renewable Energy Pvt. Ltd., M/s Chilton Refrigeration Pvt. Ltd., M/s Alphageek, and M/S Vijayakumaran Chairman Kerala SEEM, former Chairmen - Dr. Muhammed Shereef, Mr. Antony Joseph, Mr. CM Varughese, Vice Chairmen - Mr. Shanavas, Mr. Mohandas. Kerala SEEM Secretary Mr. Ashok, the Kerala EC members, M/s Azeem, Rajesh, and Gayatri Nair worked closely and dedicatedly along with the SEEM HO team to make the event successful.

ASAR Social Impact Advisors, the enabling partners to DIA, were present in full strength led by CEO Ms. Vinuta Gopal. The team's evaluation and suggestions for future courses provide valuable guidance for the

DIA team. Overall, the Kochi event effectively advanced DIA's ambitious decarbonisation campaign, fostering crucial dialogues and engaging key stakeholders in the path toward a sustainable, low-carbon future.

49. SEEM Karnataka Chapter Hosts Insightful Webinar on "AI for HVAC in Sustainability"

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, organized a well-attended online webinar on Saturday, October 12, 2024, addressing the role of Artificial Intelligence (AI) in HVAC systems and its impact on sustainability. The event, which took place from 7:30 pm to 8:30 pm IST, focused on how AI-driven technologies are transforming HVAC systems to improve energy efficiency, reduce carbon footprints, and enhance predictive maintenance.

Key Takeaways from the Webinar:

- **Energy Efficiency:** Participants learned how AI can optimize HVAC operations, adjusting settings dynamically to ensure that energy consumption is minimized without compromising comfort.
- **Carbon Reduction:** The discussion highlighted innovative AI-based solutions that help buildings reduce their environmental impact by lowering the carbon emissions associated with HVAC systems.
- **Machine Learning in Maintenance:** Attendees gained insights into how machine learning can predict equipment failures and recommend preventive actions, helping organizations reduce downtime and maintenance costs.

The webinar was free and open to all, attracting a wide audience from diverse sectors such as buildings, facilities management, sustainability, and energy. It served as an excellent platform for professionals to explore AI's potential in driving sustainability efforts in HVAC systems.

The guest speaker for the event was **Mr. Krishna Prasad S**, the CEO of Graylinx, an IoT and AI-based climate technology company. With over 20 years of experience across multiple industries, Mr. Prasad brought deep insights into the session. His expertise in business leadership, product management, engineering, and marketing, along with his background as a Mechanical Engineer and Global Business Management postgraduate, made his presentation especially impactful.

Mr. Prasad is also an established HVAC expert, guest lecturer, and panelist at various industry forums.

50. Technical session on "Recent Trends in Energy Scenario".

The Electrical and Electronics Engineering Department of Nehru College of Engineering and Research Centre (NCERC) organized a technical session on "Recent Trends in Energy Scenario" to discuss emerging innovations, sustainable practices, and the future of energy in India and beyond.

The event featured esteemed speakers, including Smt. Gayatri Nair, Former Chief Engineer of the Kerala State Electricity Board (KSEB), and Mr. Azeem, Director of Alenso Energy Pvt. Ltd. and former Secretary of the SEEM Kerala Chapter. Their expertise provided students and faculty members with valuable insights into the changing landscape of the energy sector.

Smt. Gayatri discussed the evolving energy policies in India, touching on the increasing importance of renewable energy integration and efficient power management. Her presentation highlighted how government initiatives and advancements in technology are driving India's energy transition toward sustainability.

Mr. Azeem's session focused on the role of private enterprises and innovation in accelerating this energy shift. He outlined key trends, including advancements in solar and wind energy technologies, smart grids, and energy storage systems. He also encouraged students to explore career opportunities within the renewable energy sector, emphasizing the significance of skill development in this rapidly advancing field.

The interactive session allowed students to engage directly with the speakers, who answered questions and shared personal experiences from their careers in energy management. This initiative reflects NCERC's commitment to equipping students with relevant knowledge in emerging areas and promoting awareness about the evolving energy landscape.

Attendees praised the event for its in-depth look into energy trends and the inspiration it offered for the next generation of engineers. The session was well-received, leaving a positive impact and sparking further interest in sustainable energy solutions among the students.

51. India Energy Conclave 2024

The Indian Energy Conclave 2024 was organized as part of the SEEM National Energy Management Awards 2023 on 26th & 27th September 2024 at The Suryaa in New Delhi. Approximately 400 energy professionals attended the conclave.

On the 1st Day 26th September, the event commenced with a silent prayer, followed by a welcome address delivered by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar, National President of SEEM, then delivered the presidential address. Shri. Sanil Namboothiripad, MD, OTPC officially inaugurated the event by Watering the plant, joined by other dignitaries and delivered the inaugural address. Mr. Jayesh Darji, Treasurer of SEEM, offered the vote of thanks.

This opening ceremony was followed by the technical sessions. Mr Sanjiv Gopal, Chief of Strategy, Asar presented on the topic of DIA- Sustainability in built environment. A question and answer session followed by the presentation. Mr Harshal Limdi, General Manager, Corporate Sustainability, JSW presented on Sustainability- Only imperative before humanity. Mr. Jayakumar, National President SEEM and Managing Director Sustenergy Foundation enlightened us on the topic "Electrical Safety for Facility performance excellence". Mr. Vivek Prakash, Director, Chilton Refrigeration presented on the topic "Ecofriendly chilling solution for facility". Dr. Shivani Sharma, Principal Consultant, Hitachi Energy presented on the topic "Technologies for Sustainability". A question and answer session followed these presentations.

On the 2nd Day 27th September, the event commenced with a silent prayer, followed by a welcome address delivered by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar, National President of SEEM, then delivered the presidential address. Shri. Jawaharlal, General Manager (Energy) Nitiaayog officially inaugurated the event by Watering the plant, joined by other dignitaries and delivered the inaugural address. Mr. Jayesh Darji, Treasurer of SEEM, offered the vote of thanks.

This opening ceremony was followed by the technical sessions. Shri. Jawaharlal, General Manager (Energy) Nitiaayog enrich us on the topic "Clean Energy Transission". Dr. Rajesh Arora Senior Manager (Technical) DTL presented on the topic "Safety for Sustainability". Mr. Neeraj Chawla, National Coordinator, The Climate Reality Project, India & South Asia, Founder, Winnerspitch Energy a Solar Roof top IPP/EPC company Emission Tracking for Low carbon future. Dr. Sathish Suri, Managing Director, GreenPath Energy & Sustainability Services - Decarbonisation strategies for industries. A question and answer session followed by these presentations.

52. SEEM Awards 2023

SEEM National Energy Management Awards (SNEMA) 2023 took place on September 26th & 27th, 2024, at The Suryaa, New Delhi. Approximately 400 energy professionals attended the conclave. On the 1st day The event was attended by numerous energy professionals from diverse sectors. Mr. S.P. Garnaik, Country Representative India, at Global Green Growth Institute, graced the occasion as Chief Guest, Mr. Mayur Karmarkar, Managing Director, International Copper Association India (ICAI) graced the occasion as Guests of honour. Awards in National Sustainability, National Electrical Safety Champion, National Energy Management Award- Urjasree award, Star SDA Award, Facilities- Platinum, Gold, Silver, Star Performance categories were presented to deserving winners across various sectors facilities, corporates, and individuals,

chosen by a national jury appointed by SEEM. This marked the 9th edition of SNEMA, with a significant increase in the number of awardees compared to previous years, receiving over 200+ nominations for SEEM Awards 2023.

Day 1 Highlights:



The program commenced around 2:00 pm with a welcoming address by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar Nair, President of SEEM, delivered the presidential address. Smt. Gayatri Nair, Jury Chairman of SEEM Awards, explained the selection process and emphasized the commitment to recognizing quality and merit. Mr. S.P. Garnaik, Country Representative India, at Global Green Growth Institute, Mr. Mayur Karmarkar, Managing Director, International Copper Association India (ICAI), inaugurated by watering the sapling alongside other dignitaries and felicitated the function.

In addition to SNEMA, our “energy η manager” Magazine was released during the award ceremony, with Shri. S.P. Garnaik, Country

Representative at the Global Green Growth Institute, presenting the magazine to Mr. Mayur Karmakar, Managing Director, International Copper Association India (ICAI). Following these releases, the award distribution took place, with the following notable recipients:

SEEM Sustainability Corporate House- Gold Award were received by organizations such as AGI Greenpac Limited, Telangana, Ashok Leyland Limited Foundry Division- Sriperumbudur Unit, Tamil Nadu, buildA Home , Bangalore, Karnataka, Centum Electronics Ltd, Bangalore, Karnataka, Hanon Automotive systems India Pvt. Ltd. Maraimalai Nagar, Tamil Nadu, Jindal Stainless Limited -Hisar, Haryana, JK TYRE & INDUSTRIES LTD, CHENNAI TYRE PLANT, TAMIL NADU, JSW Energy LTD. Vijayanagar 860 MW TPP (2x130 MW and 2x300 MW), Bangalore, Karnataka, KEC International Limited, Pallavaram Tanners Industrial Effluent Treatment Company LTD, Chennai, Tamil Nadu, The Leela Palace ,Bangalore, Karnataka, Shree Digvijay Cement Company limited, Jamnagar, Gujarat, TRV(Kerala)International Airport limited, Thiruvananthapuram, Kerala. **SEEM Sustainability Corporate House- Platinum Award** was received by Brigade Tech Gardens, developed by Brigade Enterprises Ltd., is managed by WTC Trades & Projects Pvt. Ltd., Bengaluru

Best Sustainability Officer - Mr. Prabodha Acharya, Chief Sustainability Officer, JSW Group
Best Chief Executive Officer- Sustainability – Mr. Bhupinder Khara, Head - Operations , JSW Steel Coated products Ltd
Best Chief Operating Officer - Sustainability– Mr. Vivek Agrawal, Chief Operating Officer, Godawari Power and Ispat Limited, Raipur. **Best Chief Engineer- Sustainability** – Mr. Prashant Uttam Pawar .Furthermore, Release of Sustenergy Foundation Study report on Electrical Safety Mr. Mayur Karmakar, Managing Director, International Copper Association India (ICAI) handing over a copy to Shri. S.P. Garnaik, Country Representative at the Global Green Growth Institute. This involved Mr. Jayakumar Nair, SEEM National President; Mr. G. Krishnakumar, General Secretary of SEEM, Smt. Gayatri Nair, Former Chief Engineer KSEB & Jury Chairman of SEEM Awards.

National Electrical Safety Champion Award Silver Award was received by Solaris Radiant Energy, Hooghly, West Bengal. **National Electrical Safety Champion Award Gold Award** was received by Safe Line Electrical Engineers Kerala

Urjasree Award was received by Dr. Mool Chand Jain, Managing Director- MCJ Energy Engineers Pvt. Ltd. & Mr. R. Venugopala Rao, General Manager- BPCL. **Star SDA Award** received by Chhattisgarh Renewable Energy Development Agency (CREDA), Gujarat Energy Development Agency (GEDA) **Star Performance Award** in Certified Energy Auditor category received by Mr. Karthick Vengatesh Kumar,(KISEM), **Star Performance Award** in Certified Energy Manager category received by Mr.Sandeep Agarwal, Jindal Stainless Steel, Hisar, Mr. Sumesh P, TTK Healthcare . **Star Performance Award** in Energy Audit Firm category received by Kotak IITM Save Energy Mission (KISEM) & Siri Exergy & carbon advisory services Pvt LTD. **Star Performance Award** in Encon Promoter category received by Yantra Harvest Energy Pvt Ltd.

SEEM Platinum Awards for facilities were received by organizations such as Ahmedabad international Airport Limited, Gujarat, Brigade Tech Gardens, developed by Brigade Enterprises Ltd., is managed by WTC Trades & Projects Pvt. Ltd., Bengaluru, Karnataka, Wadia Hospitals, Mumbai, Maharashtra, Taj Club House, Chennai, Tamil Nadu, The Leela Palace ,Bangalore, Karnataka, Trident Nariman point, Mumbai, Maharashtra. **SEEM Gold Awards** for facilities were received by organizations such as Jaipur International Airport Limited, Rajasthan, TRV(Kerala)International Airport limited, Thiruvananthapuram, Kerala, Shri Ramswaroop Memorial University, Lucknow-Deva Road, Uttar Pradesh, Vydehi Institute of Medical Science and Research Center, Bangalore, Karnataka, The Residency (a unit of SAS hotels & enterprises ltd), The Residency Towers, Chennai, Poovar Island Resort, Kerala, The Leela Palace, Jaipur, Rajasthan, Hyatt Regency Kolkata, West Bengal, Lulu International Shopping Malls, Kochi, Kerala. **SEEM Silver Awards** for facilities were received by organizations such as Mangaluru International Airport Ltd, Karnataka, Lucknow International Airport, Uttar Pradesh, World Trade Center, Kochi, Kerala, Mary Queens Mission Hospital, Kanjirappally, Kerala, The Residency Towers, Coimbatore, Tamil Nadu, The Residency Towers, Puducherry, Lulu International Shopping Malls Pvt Ltd, Thiruvananthapuram, Kerala.

Day 2 Highlights:

On the 2nd day The event was attended by numerous energy professionals from diverse sectors. Mr. M K Asthana, Executive Director, NTPC graced the occasion as Chief Guests. Awards in Platinum, Gold, and Silver categories were presented to deserving winners across various sectors, industries chosen by a national jury appointed by SEEM.

The program commenced around 2:00 pm with a welcoming address by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar Nair, President of SEEM, delivered the presidential address. Smt. Gayatri Nair, Jury Chairman of SEEM Awards, explained the selection process and emphasized the commitment to recognizing quality and merit. Mr. M K Asthana, Executive Director, NTPC inaugurated by watering the sapling alongside other dignitaries and felicitated the function.

SEEM Platinum Awards were received by organizations such as Delphi - TVS Technologies Limited, Mannur, Tamil Nadu, Shree Digvijay cement company limited Jamnagar, Gujarat, Orient Cement Limited, Chittapur, Karnataka, Chittor Cement Plant, Nuvoco Vistas Corp Ltd, Andhra Pradesh, Ipca Laboratories Limited, Ratlam (Madhya Pradesh), KEC International Limited - Jaipur, Rajasthan, KEC International Limited - Nagpur, Maharashtra, Centum Electronics Ltd - SEBU Division, Bangalore, Karnataka, Godrej Consumer Products LTD- Malanpur, Madhya Pradesh, Ashok Leyland Limited - Foundry Division, Sriperumbudur, Tamil Nadu, Ashok Leyland Limited - Foundry Division, Ennore, Tamil Nadu, MSP Steel & Power Ltd Raigarh, Chhattisgarh, Carborundum Universal Limited, Electro Minerals Division, Kochi, Kerala, Bilt Graphic Paper Products Limited, Unit: Ballarpur, Maharashtra, Jindal Stainless limited, Hisar, Haryana, Godawari Power and Ispat Limited, Raipur, Chhattisgarh, JSW Energy LTD. Vijayanagar 860 MW TPP (2x130 MW and 2x300 MW), Bangalore, Karnataka, JSW Energy ltd, Ratnagiri, Maharashtra, Bajaj Energy Limited Noida, Uttar Pradesh, ITC Limited, Agri Business Division, Chirala, Andhra Pradesh, Apollo Tyres Ltd, Kalamassery, Kerala, Apollo Tyres Limited, Perambra, Kerala, Apollo Tyres Limited, Chennai plant, Tamil Nadu, JK tyre & industries LTD, Chennai tyre plant, Tamil Nadu, Hanon Automotive systems India Pvt. Ltd. Maraimalai Nagar, Tamil Nadu, UTCL, Unit : Birla White(WCP)-Katni (M.P).

SEEM Gold Awards were received by organizations such as United Breweries Limited, Odisha , Sree Jayajothi Cements Pvt. Ltd, Andhra Pradesh, Saint-Gobain India Private Limited,, Perundurai, Tamil Nadu, Nitta Gelatin India Ltd, Kathikudam ,Koratty ,Thrissur, Nitta Gelatin India Limited - Gelatin Division, Kochi,

Kerala, Ammunition Factory Khadki, Unit of Munitions India Ltd., (A Govt. of India Enterprise, Ministry of Defence), Pune, Maharashtra, Glenmark Life Sciences Ltd, Ankaleshwar, Gujarat, Centum Electronics Ltd - EMS Division, Bangalore, Karnataka, MRCMPU Ltd Milma Wayanad Dairy, Kerala, Gopalpur Packaging Centre, Tata Consumer Products, Ganjam, Odisha, Blue Craft Agro Pvt Ltd Yamunanagar Haryana, Tata Consumer Products Limited, Sri City, Andhra Pradesh, Sarda energy & minerals limited Raipur, Chhattisgarh, JSW Steel Coated Products Limited, Vasind, Thane, Maharashtra, JSW Steel Coated Products Limited, Tarapur Works, Boisar, Maharashtra, Nalwa Steel and Power Limited, Grasim Industries Limited, Unit: Century Rayon, Kalyan, Maharashtra, JSW Energy (Barmer) Ltd, Rajasthan, Steel Authority of India Limited, IISCO Steel Plant, Burnpur, West Bengal.

SEEM Silver Awards were received by organizations such as Setco Auto Systems Pvt Ltd, Uttarakhand, TVS Electronics Limited, Karnataka, 301217380948Tata Consumer Products Limited, Sampla Packaging Center, Haryana, Namaste India Food Pvt. Ltd. Modinagar, Ghaziabad, Uttar Pradesh, Shyam sel and power ltd, Bahadurpur, West Bengal, Star Exports, The supreme Industries Limited , Telangana, The supreme Industries Limited , west Bengal, DB Power Limited, Chhattisgarh

The presence of award winners and guests during the ceremony demonstrated the relevance and acceptance of SEEM Awards. The Suryaa New Delhi was filled with awardees and guests, and student volunteers from RBMI College, Noida conducted the event with enthusiasm. Dr. Mohan Khedhkar, Vice President- SEEM, offered the vote of thanks.

53. SEEM Karnataka Chapter Hosts 50th Monthly Technical Session on "Condition Based Monitoring

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, celebrated a significant milestone by organizing its 50th Monthly Technical Session on the topic "Condition Based Monitoring" (CBM) on Saturday, November 9, 2024, from 7:30 PM to 8:30 PM.

This interactive session was attended by professionals across various industries, eager to explore the benefits and applications of CBM in improving operational efficiency and sustainability.

Key Highlights and Major Takeaways:

- Understanding the role of CBM in enhancing safety, reliability, and energy efficiency.
- Gaining insights into the latest technologies utilized in CBM.
- Learning through a real-world case study, demonstrating practical CBM implementation.
- The session featured by Mr. Abraham Varughese, an accomplished Energy Management Professional with over 30 years of expertise in energy management consulting, EMS software, power quality, business development, and training.

An accredited Energy Auditor by the Bureau of Energy Efficiency (BEE), Mr. Varughese has held leadership roles at prestigious organizations, including the PHD Chamber of Commerce and Industry, Conzerv Systems, Schneider Electric India, and Ecolibrium Energy. He is currently engaged in strategic advisory services, assisting companies in enhancing sustainability and reducing their carbon footprints.

Participants gained a deep understanding of how CBM can help industries predict and prevent equipment failures, thereby promoting operational excellence and energy savings. The session underscored the importance of adopting advanced monitoring technologies to achieve long-term sustainability goals. The 50th session marks a landmark achievement for the SEEM Karnataka Chapter in its continued commitment to fostering knowledge-sharing and professional development in energy management.

54. SEEM West Bengal Hosts Insightful Webinar on "Carbon Reduction in Cement Industries"

The Society of Engineers and Managers (SEEM), West Bengal chapter, successfully organized a free webinar titled *Pathways for Carbon Reduction in Cement Industries*. The event featured Dr. A.K. Das, a renowned

professor at Maulana Abul Kalam Azad University of Technology and a SEEM West Bengal chapter executive committee member.

The session, held at 8 PM, delved into innovative strategies for mitigating carbon emissions in the cement industry, a key sector in the global push towards sustainability. Dr. Das highlighted actionable solutions, including advancements in production techniques, utilization of alternative fuels, and implementation of energy-efficient practices.

The webinar attracted widespread participation from industry professionals, academics, and students, fostering an engaging dialogue on sustainable development. The West Bengal chapter's initiative underscores SEEM's commitment to promoting knowledge exchange and sustainable practices in engineering and management fields.

55. SEEM Karnataka Chapter Hosts 51st Monthly Technical Session on “Achieving Carbon Neutrality through Decarbonisation Strategies in the Building Sector”

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, organized a technical session on “Achieving Carbon Neutrality through Decarbonisation Strategies in the Building Sector” on December 14, 2024, from 7:30 PM to 8:30 PM IST.

Key Highlights and Major Takeaways:

- Key megatrends and macro imperatives
- Driving sustainability Transformation
- Demand & Supply side strategies

The session featured **Mr. Antony Gerald**, Solution Consulting Leader – Energy & Sustainability (E&S) at Honeywell, as the keynote speaker. Mr. Gerald provided an insightful analysis of decarbonization strategies, emphasizing energy-efficient technologies, renewable energy integration, and the role of digital tools such as IoT and AI in optimizing energy usage.

Participants gained valuable knowledge through real-world applications and success stories, showcasing effective methods to reduce carbon footprints in the building sector.

The SEEM Karnataka Chapter extended its gratitude to Mr. Gerald for his engaging presentation and reaffirmed its commitment to promoting sustainable practices and energy efficiency in the industry.

56. Inauguration of SEEM Industry Outreach Chapter (IOC) at SCMS



SCMS College of Engineering and Technology (SSET), in collaboration with the Society of Energy Engineers and Managers (SEEM), marked Energy Conservation Day on December 17, 2024, with a series of impactful events that highlighted the importance of energy efficiency and industry collaboration.

The day began with a highly engaging technical talk on the topic, *Energy Conservation and Efficiency: Understanding the Industry Perspective*. The session was conducted by Mr. P. Rajesh, Joint Secretary of the SEEM Kerala Chapter, who brought a wealth of knowledge and practical insights to the audience. Students, faculty, and industry professionals

attended the talk, gaining valuable understanding of the role energy conservation plays in modern industries and the strategies to achieve efficiency.



The inaugural session of the SEEM Industry Outreach Chapter (IOC) at SSET was also held on the same day, generating great enthusiasm among participants. This landmark event established SSET as the first institution in Kerala to sign a Memorandum of Understanding (MoU) with SEEM IOC, paving the way for stronger ties between academia and industry.

The collaboration with SEEM IOC is a significant milestone for SSET, providing students and faculty with opportunities to engage with industry leaders, access real-world insights, and work on innovative energy solutions. The MoU is expected to foster a culture of sustainability and innovation, aligning with

global goals for a greener future.

The events underscored the vital role of education and industry collaboration in addressing energy challenges. The partnership between SCMS College of Engineering and SEEM is poised to serve as a model for other institutions, demonstrating the potential for impactful synergies in the pursuit of sustainable energy practices.

SSET and SEEM have set a promising precedent, reinforcing the importance of collective action in building a sustainable future. The initiatives undertaken on Energy Conservation Day are a testament to their shared commitment to driving positive change in the energy sector.

57. PSNA College Hosts Webinar on Energy Efficiency and Sustainability

On December 13, 2024, Sumesh Pavithran conducted an insightful webinar for the Department of Electrical and Electronics Engineering (EEE) at PSNA College of Engineering and Technology. This initiative, organized under the guidance of the Society of Energy Engineers and Managers (SEEM), aimed to educate and inspire EEE students about the importance of energy efficiency and sustainability in addressing global challenges. First-year students attended the session in the seminar hall, participating through a large-screen stage presentation featuring videos and PowerPoint slides. Additionally, 19 participants joined online, showcasing the broad interest in sustainable practices. The webinar focused on enhancing awareness of the global environmental crisis, particularly climate change and biodiversity loss, highlighting energy efficiency as a critical sustainability component, and encouraging students to pursue careers in energy management, auditing, and sustainable development.

The event was orchestrated by the Department of Electrical and Electronics Engineering, led by HOD Dr. N. Chandrasekaran, with assistance from Dr. R. Joseph Rathish, Dr. S. Umamaheswari, Mr. B. Pushpavanam, and Mr. R. Baladhandapani, under the guidance and blessings of Principal Dr. D. Vasudevan. Structured into six key sections, the presentation progressively guided the audience from awareness to actionable insights. Topics included the potential hazards of mass extinction, an introduction to Sustainable Development Goals (SDGs) with a focus on SDG 7: Affordable and Clean Energy, and energy efficiency as a cost-saving measure. A notable highlight was a case study on TTK Healthcare's energy efficiency projects, which emphasized practical solutions like LED lighting, inverter technologies, and gamified employee engagement to achieve significant energy and cost savings.

The session concluded with an overview of SEEM's efforts in promoting energy conservation and training future professionals. Students actively engaged with the material, sparking interest in sustainability-related projects. Recommendations for future sessions included hands-on workshops, interactive Q&A opportunities, and mentorship programs to deepen understanding and foster practical skills. The program's success underscored SEEM's visionary support and the college's commitment to sustainability education. Special thanks were extended to Dr. R. Joseph Rathish and his team for their exceptional efforts in organizing and facilitating the event.

58. FOSMI meeting with Decarbonisation India Alliance to Advance MSME Sustainability Initiatives



The Federation of Small & Medium Industries, West Bengal (FOSMI), convened a special meeting of its decision-making council, comprising prominent MSME entrepreneurs from across the state, to discuss the Decarbonisation India Alliance (DIA). DIA is a collaborative initiative by the Society of Energy Engineers and Managers (SEEM) and Asar.

During the meeting, DIA representatives presented the Alliance's MSME decarbonisation programme. This included a series of technical case studies that showcased financially viable solutions for reducing emissions. The presentation prompted an engaging discussion among FOSMI entrepreneurs on various energy efficiency measures and renewable energy strategies that could be implemented in the MSME sector.

In a landmark development, FOSMI and DIA (through SEEM and Asar) agreed to collaborate on a pilot project targeting key emission-intensive MSME sub-sectors in West Bengal. As part of the collaboration, FOSMI member entrepreneurs will work closely with DIA to scope, implement, and demonstrate model solutions for emission reduction, creating lighthouse examples for the sector.

Shri Biswanath Bhattacharya, President of FOSMI, chaired the meeting, with Shri A.K. Sengupta, Secretary of FOSMI, also in attendance. Representing DIA were Dr. Venkata Sudheer L, Governing Council Member of DIA, Mr. Bibek Roy, National Head of DIA, Mr. Sanjiv Gopal, Chief of Strategy and Planning at Asar, Mr. Pushkal Shivam, Lead for Energy Transition at Asar, and Ms. Ankita Chowdhury, Senior Programme Coordinator at Asar.

This collaboration marks a significant step in advancing sustainability practices within the MSME sector in West Bengal, demonstrating the potential for scalable emission reduction solutions that are both practical and financially viable.

59. SEEM West Bengal Chapter Hosts Webinar on "Bio fuel, A Renewable energy source and saviour from global warming"

The Society of Energy Engineers and Managers (SEEM), West Bengal chapter, organized an enlightening webinar on December 30, 2024, at 8 PM. The session, titled "BIO-FUEL, A RENEWABLE ENERGY SOURCE AND SAVIOUR FROM GLOBAL WARMING," was presented by Mr. Prasanta Kumar Das, an esteemed executive committee member of SEEM's West Bengal chapter.

This free webinar, open to all without prior registration, showcased Mr. Das's vast expertise in mechanical engineering and his extensive experience spanning over four decades in process and power industries. Mr. Das is a professional engineer accredited by IE(I) and a BOE certificate holder. Over the years, he has contributed to prominent organizations such as Fertilizer Corporation of India Ltd., ICCL, Odisha, Dishergarh Power Supply Company, DLF Power, General Electric, and Thermax Ltd., where he retired as Head of Operations (O&M).

Throughout his illustrious career, Mr. Das has specialized in commissioning, operation, and maintenance of process industries and power plants ranging from 10 MW to 150 MW. He has also undertaken numerous

assignments assessing the performance of power plants and industrial processes. In addition to his practical experience, Mr. Das is a published author of technical books on power plant operations and maintenance as well as industrial maintenance, further cementing his authority in the field.

The webinar delved into the potential of bio-fuel as a renewable energy source and its critical role in mitigating global warming. It highlighted bio-fuel's environmental benefits, underscoring its importance in the transition towards sustainable energy practices.

SEEM's initiative reflects its ongoing commitment to promoting renewable energy and providing a platform for knowledge sharing. The event was highly appreciated by participants for its engaging content and the presenter's depth of knowledge.

60. SEEM Karnataka Chapter Hosts Monthly Technical Session on "IoT and AI for Energy Optimization"

The Karnataka Chapter of the Society of Energy Engineers and Managers (SEEM) successfully conducted its Monthly Technical Session on the topic "Using IoT & AI to Optimize Energy Costs". The event, held virtually on Saturday from 7:30 PM to 8:30 PM IST, witnessed enthusiastic participation from energy professionals, academicians, and students.

The session shed light on the transformative potential of Internet of Things (IoT) and Artificial Intelligence (AI) in enhancing energy efficiency. Key takeaways from the session included:

Exploring the Role of IoT and AI in Energy Efficiency: Participants gained insights into how these advanced technologies are driving operational excellence and cost optimization in energy management.

Access to Real-World Case Studies: The session featured practical examples from various industries, showcasing successful implementations of IoT and AI to reduce energy consumption and improve efficiency.

Hands-On Technical Insights: Attendees were provided with actionable technical knowledge and tools to apply IoT and AI solutions in their respective fields.

The event emphasized the importance of adopting cutting-edge technologies to meet global energy challenges while achieving sustainability goals. Participants appreciated the detailed discussion and the opportunity to learn from experts in the field.

This session continues SEEM's commitment to fostering professional development and knowledge sharing within the energy sector. The Karnataka Chapter's initiative reflects the organization's ongoing efforts to equip members with the latest technological advancements and best practices in energy management.

61. Webinar on Electrical Safety Highlights the Importance of Personal and Family Protection

The Society of Energy Engineers and Managers (SEEM) Kolkata Chapter, in collaboration with Igniting Power Engineers (IPE) and Excellence Enhancement Centre (EEC), successfully organized a highly informative webinar titled "**Electrical Safety for Yourself and Your Loved Ones**" on **January 24, 2025**, at 8:00 PM. The event attracted significant attention from energy professionals and safety enthusiasts.

The webinar featured **Dr. Rajesh Kumar Arora** as the presenter, a distinguished expert in the field of electrical engineering and safety. Dr. Arora's impressive academic and professional background added immense value to the session. He holds a B. Tech and Master of Engineering (ME) in Electrical Engineering from Delhi College of Engineering, University of Delhi, and a PhD in grounding system design from UPES, Dehradun. Dr. Arora is a certified Energy Manager and Auditor, with over 14 years of experience working in 400kV and 220kV substations for Delhi Transco Limited (DTL). Additionally, he served as Deputy Director (Transmission and Distribution) at the Delhi Electricity Regulatory Commission (DERC) for more than three

years and has contributed to the State Load Dispatch Centre (SLDC) of DTL. Currently, he works in the Design and Engineering (D&E) department of DTL as Senior Manager (Technical).

Dr. Arora's research interests encompass a wide range of critical topics, including high voltage technology, grounding (earthing) system design, protection systems, computer applications in power systems, power transmission and distribution design, and regulatory business and affairs. He has authored numerous research papers and articles for leading magazines, solidifying his reputation as a thought leader in the industry.

During the webinar, Dr. Arora emphasized the significance of electrical safety practices both at home and in professional environments. He shared practical tips on ensuring personal and family safety while dealing with electrical systems. His insights on grounding system design and its role in accident prevention resonated deeply with the attendees.

The session also included a Q&A segment, where participants engaged with Dr. Arora, seeking advice on specific electrical safety challenges. The collaborative efforts of SEEM, IPE, and EEC in organizing the event were lauded for their commitment to promoting awareness and safety in the energy sector.

The webinar concluded with a vote of thanks to Dr. Arora for his enlightening presentation and to all participants for their active engagement. SEEM Kolkata Chapter reaffirmed its dedication to hosting more such initiatives to empower professionals and the community with knowledge on critical topics like electrical safety.

62. SEEM Karnataka and ISHRAE Mysore Host Webinar on Energy Efficiency in Healthcare by Negative Pressure Technology

The Society of Energy Engineers and Managers (SEEM) Karnataka Chapter, in collaboration with the ISHRAE Mysore Chapter, successfully organized an online webinar on **"Energy Efficiency in Health Care by Negative Pressure Technology"** on **February 8, 2025 (Saturday), from 7:30 PM to 8:30 PM IST.**

The session, which was free and open to all, aimed to spread awareness about the importance of energy efficiency in healthcare settings and the role of negative pressure technology in enhancing safety and sustainability.

The keynote presentation was delivered by **Mr. Venkat H**, a multi-faceted entrepreneur with **35 years of industrial experience**, specializing in **Value Addition and Value Engineering**. His insights provided attendees with a deeper understanding of how advanced technologies can improve energy efficiency in medical facilities while maintaining optimal air quality and patient safety.

Participants actively engaged in discussions, making the webinar an enriching experience for professionals and students alike. The organizers encouraged attendees to share the session details widely, further amplifying the impact of the initiative.

This webinar marks another successful knowledge-sharing event by SEEM and ISHRAE, reinforcing their commitment to promoting sustainable energy practices across industries.

63. SEEM West Bengal chapter host webinar on "Power Plant Energy Efficiency"

The Society of Energy Engineers and Managers (SEEM) West Bengal Chapter successfully organized a webinar on "Power Plant Energy Efficiency" on February 27, 2025, at 8:00 PM IST. The session featured Mr. Debabrata Bhattacharjee, a distinguished mechanical engineer with over four decades of experience in the power sector, specializing in cogeneration, plant commissioning, and performance assessment.

Mr. Bhattacharjee, currently the Plant Head of a 25 MW Siemens CPP in Bankura, West Bengal, provided valuable insights into optimizing auxiliary systems in power plants. His discussion covered key aspects such as:

- Methods to assess actual performance & efficiency of equipment
- Identifying causes of lower-than-expected efficiency
- Corrective measures to enhance auxiliary system efficiency

He emphasized that auxiliary power consumption in power generation accounts for 6-10% of gross power production, making its efficiency crucial for cost reduction, sustainability, and environmental impact mitigation. The webinar highlighted the benefits of improving auxiliary system efficiency, including reducing energy waste, lowering operational costs, and enhancing overall power plant performance.

The session attracted industry professionals, engineers, and energy enthusiasts, fostering engaging discussions on best practices for improving energy efficiency in power generation. SEEM West Bengal continues to lead efforts in promoting sustainable energy solutions through such impactful knowledge-sharing events.

64. SEEM Karnataka Chapter Hosts Insightful Webinar on "Green Computing – The Pathway to Sustainable Computing"

The Karnataka Chapter of the Society of Energy Engineers and Managers (SEEM) successfully organized an engaging online webinar on “Green Computing – The Pathway to Sustainable Computing” on Saturday, 8th March 2025, from 7:30 PM to 8:30 PM IST.

The session was presented by Mr. Sanjay, Chief Technology Officer and Chief Architect at Vigyanlabs, a pioneer in energy-efficient IT solutions. With an illustrious career spanning over 28 years, Sanjay has held leadership roles in global technology giants such as Infosys, Apple Computers, and Hewlett Packard. He is a recipient of the prestigious Global MVP (Most Valued Person) Award from HP Technology Services Group and holds four US patents in the field of Green Computing.

During the session, Sanjay shared deep insights into sustainable IT practices, highlighting the increasing carbon footprint of digital infrastructure and how energy-optimized computing solutions can mitigate environmental impact. He also discussed the development of IPM+, a flagship product suite by Vigyanlabs that supports enterprise energy management through intelligent power monitoring and optimization.

Sanjay’s expertise, coupled with real-world examples from Fortune 100 companies like P&G, GM, and DHL, made the webinar highly informative and impactful. His vision for green digital transformation resonated strongly with professionals and students alike.

The webinar was free and open to all, drawing participants from across India’s tech and energy management communities. The SEEM Karnataka Chapter continues to lead important conversations around sustainable innovation and digital responsibility through such initiatives.

65. SEEM West Bengal Chapter Organizes Webinar on Value Chain System Implementation

The Society of Energy Engineers and Managers (SEEM), West Bengal Chapter, successfully conducted a knowledge-rich webinar on “Value Chain System Implementation to Enhance Value in Product, Process, and Services” on 29th March 2025 at 8:00 PM IST.

The session was led by Mr. Arun Kumar Bhatnagar, a seasoned industry expert and Certified Value Specialist (CVS) from SAVE International (Society for American Value Engineers). With an extensive career spanning 35 years at Tata Steel, Mr. Bhatnagar brought a wealth of practical experience in areas such as Total Productive Maintenance (TPM), Value Engineering (VE), Lean Manufacturing, Technical Services, Supply Chain Management, and Quality Management Systems (QMS).

The webinar focused on understanding the concept of value and its critical importance in delivering value-added products, processes, and services. Mr. Bhatnagar emphasized how the implementation of a well-structured value chain system can optimize resources, eliminate waste, and significantly improve overall organizational efficiency.

Drawing from real-life industry scenarios, he shared strategic approaches to align business operations with customer needs, ultimately enhancing performance and stakeholder satisfaction. His insights on integrating value engineering into core processes were particularly well received by participants.

The session witnessed active participation from professionals, students, and industry leaders, reaffirming SEEM West Bengal Chapter's commitment to continuous learning and excellence in engineering and management practices.

66. SEEM West Bengal Chapter Hosts Webinar on " Digital Transformation and AI in Process Industries

The Society of Energy Engineers and Managers (SEEM), West Bengal Chapter, successfully organized a thought-provoking webinar on the theme "Digital Transformation and AI in Process Industries" on 12th April 2025 at 8:00 PM IST. The event attracted a diverse audience of professionals, technologists, and students keen to explore the evolving landscape of digital solutions in industrial operations.

The keynote address was delivered by Mr. K V Siva Rama Brahman, an industry veteran with over 25 years of experience spanning operations, process control, MES, software development, and entrepreneurship. An honours graduate in Chemical Engineering from Andhra University, Vizag, Mr. Siva Rama has made significant contributions to the oil & gas, chemical, petrochemical, power, and metals sectors.

Currently the Founder and CEO of Jaaji Technologies, Mr. Siva Rama has spearheaded the implementation of digital solutions for over 70 clients across 10 countries, including the USA, UK, Mexico, Thailand, UAE, and Nigeria. Jaaji Technologies is widely recognized for its Made-in-India platform tailored for the digital transformation of process industries.

During the session, Mr. Siva Rama presented the "inSis Suite", an integrated, self-service software platform developed by Jaaji Technologies, designed to streamline operations and empower industries through data-driven decision-making and AI integration. His insights offered attendees a practical understanding of how AI and digital tools are reshaping efficiency, safety, and productivity in process plants.

The webinar served as an excellent opportunity for knowledge exchange and networking, reaffirming SEEM West Bengal Chapter's commitment to promoting innovation and sustainable energy practices through cutting-edge technological engagement.

67. SEEM Karnataka Chapter Hosts Insightful Webinar on "Incorporating Traditional Values to Boost Sustainability"

The Karnataka Chapter of the Society of Energy Engineers and Managers (SEEM) successfully organized an online webinar titled "Incorporating Traditional Values to Boost Sustainability" on Saturday, 12th April 2025. The session was held from 7:30 PM to 8:30 PM IST and was open to all, attracting participants from diverse professional backgrounds.

The webinar featured Ms. Pavithra D, Founder of AALAYA – Building Dreams, as the distinguished presenter. With a rich background in sustainable building construction, Ms. Pavithra brought valuable insights into how traditional architectural practices and cultural values can significantly contribute to sustainable development in the modern era.

During her talk, she emphasized the need to optimize the use of cost-effective raw materials, incorporate ESG (Environmental, Social, and Governance) factors, and leverage artificial intelligence for smarter decision-making in construction and design. Ms. Pavithra highlighted several case studies demonstrating

how blending traditional methods with modern technologies results in eco-friendly, resilient, and economically viable structures.

The event provided a platform for meaningful discussions, encouraging participants to rethink current practices and explore how age-old wisdom can address today's sustainability challenges. The SEEM Karnataka Chapter continues to champion knowledge-sharing initiatives like these, reaffirming its commitment to fostering a greener and more sustainable future.

68. SEEM West Bengal Chapter Hosts Webinar on "Increasing Energy Efficiency in Process by Using Suitable Surface Coating "

The West Bengal Chapter of the Society of Energy Engineers and Managers (SEEM) successfully organized a knowledge-packed webinar titled "Increasing Energy Efficiency in Process by Using Suitable Surface Coating" on Saturday, 17th May 2025, at 8:00 PM IST. The session was part of SEEM's ongoing commitment to promote sustainable industrial practices and technological innovations in energy management.

The keynote speaker for the evening was Mr. Pankaj Chandrabhan Patil, an accomplished entrepreneur and founder of Innovative Surface Coating Technology, Nagpur. Mr. Patil holds a B.Tech and an LLM in Environment and is widely recognized for his expertise in energy-efficient industrial solutions. His company specializes in advanced Thermo-Ceramic Coating technologies, offering applications capable of enduring extreme temperatures ranging from -40°C to +1800°C.

In his presentation, Mr. Patil delved into the pivotal role surface coating technologies can play in enhancing energy efficiency across a wide range of industries. He highlighted practical case studies from sectors such as automobile manufacturing, ceramics, welding electrodes, clutch plates, and cracking units, showcasing significant reductions in fuel consumption and carbon emissions. His insights emphasized how targeted thermal insulation through coatings can lead to measurable energy savings, especially in high-temperature equipment like ovens and furnaces.

The session drew participation from professionals, academicians, and students across the country. Attendees expressed appreciation for the real-world applications and sustainability-driven approach advocated by Mr. Patil.

The webinar was free and open to all, reflecting SEEM's mission to democratize access to energy efficiency knowledge and build a greener industrial future.

69. SEEM Karnataka Chapter Hosts Insightful Webinar on "Efficiency in Thermal Equipments "

The Karnataka Chapter of the Society of Energy Engineers and Managers (SEEM) successfully organized an enlightening online webinar on "**Efficiency in Thermal Equipments - Kiln, Furnace, Oven, Drier, Combustion System, Burners, and Solar Heating System**" on **Saturday, 10th May 2025, from 7:30 PM to 8:30 PM IST**. The session was part of SEEM's ongoing commitment to professional knowledge-sharing in the field of energy management and was open to all, attracting participation from engineers, energy auditors, consultants, and students across India.

The distinguished speaker for the event was **Dr. Dhurai K.R**, Director of the Isojet Group of Companies. Dr. Dhurai is a renowned expert in thermal systems and a Bureau of Energy Efficiency (BEE) Certified Energy Auditor. With a deep background in thermal system design, energy auditing, gap analysis, and solution implementation, Dr. Dhurai brought a wealth of practical experience and technical expertise to the session.

During the hour-long webinar, Dr. Dhurai provided valuable insights into optimizing the efficiency of various thermal equipment such as kilns, furnaces, ovens, and dryers. He also covered advanced topics like combustion system optimization, burner tuning, and the growing relevance of solar heating systems in

industrial applications. Emphasizing both energy and cost savings, the presentation included real-world case studies and practical strategies that attendees could apply in their respective sectors.

The session was interactive, with participants engaging actively during the Q&A, reflecting the relevance and utility of the topic in today's energy-conscious industrial landscape. SEEM Karnataka Chapter expressed its appreciation to Dr. Dhurai for his impactful presentation and reaffirmed its commitment to promoting sustainable energy practices through continued learning and collaboration.

70. SEEM Organizes Free Webinar on BEE Energy Manager & Auditor Exam Preparatory Training

The Society of Energy Engineers and Managers (SEEM) successfully conducted a free webinar titled "BEE – Energy Manager & Energy Auditor Certification Examination Preparatory Training" on May 22, 2025, at 8:00 PM. This marked the fourth batch of aspiring professionals being mentored and guided by SEEM in their journey to become certified by the Bureau of Energy Efficiency (BEE).

The session was led by Mr. Bibek Roy, a BEE Certified Energy Auditor, and Mr. Prashant Kumar Das, a seasoned industry expert. With over 46 years of experience each, the distinguished speakers provided deep insights into the BEE examination structure, subject areas, and real-world applications of energy management and auditing.

This webinar was tailored for professionals who are committed to building a meaningful career or consultancy practice in energy auditing, energy management, and decarbonization initiatives. It highlighted how strategic energy interventions can not only drive sustainability but also support global efforts to mitigate climate change and promote industrial decarbonization.

SEEM's preparatory sessions are part of its broader mission to empower professionals with the skills and knowledge needed for a cleaner, more energy-efficient future. The enthusiastic participation and interactive discussions underscored the growing interest among industry professionals to play a pivotal role in India's energy transition.

71. In Loving Memory of Mr. Abraham Varughese



It is with profound sorrow that we announce the passing of Mr. Abraham Varughese, a distinguished energy professional and a pioneer in the field of Energy Management. Mr. Varughese's demise is a significant loss to the energy fraternity and all who had the privilege of working alongside him.

A Life Fellow of the Society of Energy Engineers and Managers (SEEM) and a member of the Managing Committee of SEEM Karnataka Chapter, Mr. Varughese was deeply respected for his contributions to sustainable energy practices. He was also a Fellow of the Institution of Engineers (India) — a reflection of his standing in the engineering and energy management communities.

Throughout his illustrious career, Mr. Varughese held key roles in reputed organizations, including the PHD Chamber of Commerce, Conservative Systems, and Schneider Electric India. At the time of his passing, he was serving as Vice President – Operations at Bigeta Energy Solutions, Bengaluru, where he continued to lead with dedication and vision.

Mr. Varughese was known not only for his technical expertise but also for his mentorship, integrity, and unwavering commitment to promoting energy efficiency and sustainability. His efforts have inspired many in the profession, and his legacy will endure through the work of those he mentored and influenced.

SEEM, along with the broader energy and engineering community, extends its deepest condolences to his family, colleagues, and loved ones. May his soul rest in peace, and may his contributions continue to light the path for future generations of energy professionals.

72. SEEM West Bengal Chapter Organizes Insightful Webinar on “Sustainable Manufacturing Value Chain”

The Society of Energy Engineers & Managers (SEEM), West Bengal Chapter, successfully organized a thought-provoking webinar on the topic “Sustainable Manufacturing Value Chain” on 21st June 2025 at 8:00 PM. The webinar was conducted virtually and was open to all participants free of cost, attracting professionals, academicians, and students from diverse industrial and educational backgrounds.

The session was led by Mr. Arun Kumar Bhatnagar, a seasoned Mechanical Engineer, CVS-qualified professional, and Value Management Consultant with over 35 years of experience. His expertise spans across Total Productive Maintenance (TPM), Value Engineering (VE), Manufacturing, Technical Services, Supply Chain Management, and Quality Management Systems (QMS).

In his presentation, Mr. Bhatnagar elaborated on the importance of embedding sustainability principles across the manufacturing value chain, covering key strategies and practical approaches to achieve long-term value creation without compromising environmental and operational integrity. He emphasized how integrating TPM and VE practices can drive efficiency, minimize waste, and optimize resources, thereby supporting sustainable growth in industrial operations.

The session concluded with an engaging Q&A segment, where participants raised relevant questions, sparking meaningful dialogue on the practical challenges and opportunities in sustainable manufacturing.

73. SEEM Karnataka Chapter Hosts Webinar on Variable Water Flow (VWF) Systems for Energy-Efficient Air Conditioning

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, successfully conducted an insightful online webinar on “Variable Water Flow (VWF) Systems: Energy Efficient Air Conditioning Technology to Optimize Life Cycle Cost” on Saturday, 14th June 2025, from 7:30 PM to 8:30 PM IST.

The webinar, free and open to all participants, attracted energy professionals, HVAC engineers, and sustainability advocates from across the country, aiming to explore cutting-edge technologies for energy conservation in air conditioning systems.

Mr. Nitish Prasad B N, Senior Manager – Sustainability Products (South) at Johnson Controls India, was the esteemed presenter. A seasoned professional with over 13 years of experience in the HVAC domain, Mr. Prasad has held key roles in reputed companies including Zamil Air Conditioners (Middle East), Blue Star India, Carrier Air Conditioners India Ltd, and currently with Johnson Controls. He holds a Bachelor’s degree in Mechanical Engineering, a PGDM in Business Management from NMIMS, and is a LEED Green Associate accredited by the United States Green Building Council (USGBC).

During the session, Mr. Prasad elaborated on the benefits of Variable Water Flow systems in chilled water air conditioning applications. He emphasized how these systems significantly reduce energy consumption while optimizing the life cycle cost of HVAC infrastructure. Real-world case studies and performance data were shared to highlight measurable improvements in operational efficiency.

The interactive session concluded with a lively Q&A segment, where attendees engaged in technical discussions and shared their perspectives on sustainable HVAC solutions. SEEM Karnataka Chapter continues its commitment to promoting knowledge-sharing and awareness on innovative energy management practices through such technical webinars.

74. SEEM Karnataka Chapter Hosts Webinar on “Rainwater Harvesting & Recharging for Sustainability”

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, organized an online webinar on “Rainwater Harvesting & Recharging for Sustainability” on Saturday, 12th July 2025. The session, held from 7:30 PM to 8:30 PM IST, was open to all and saw enthusiastic participation from professionals, students, and sustainability advocates across the country.

The keynote presentation was delivered by Er. Ramesh H, a seasoned expert with four decades of experience in the Water Resources Department, Government of Karnataka. A distinguished civil engineer by qualification, Er. Ramesh holds a Diploma and Graduate Degree in Civil Engineering, along with advanced credentials such as a specialized course in Integrated River Basin Planning & Management (IRBPM) from CWC, Khadakwasla, Pune, and a Post Graduate Diploma in Remote Sensing & GIS Applications from the Indian Institute of Remote Sensing (IIRS), Department of Space, Government of India, Dehradun.

During the session, Er. Ramesh highlighted the critical importance of rainwater harvesting and groundwater recharge in mitigating water scarcity and ensuring long-term water sustainability. His insights were backed by real-life case studies, policy references, and practical implementation strategies drawn from his extensive field experience.

The webinar successfully emphasized the need for decentralized water management practices and encouraged participants to adopt rainwater harvesting both at individual and institutional levels. SEEM Karnataka Chapter continues to promote sustainability and environmental stewardship through its regular technical webinars and knowledge-sharing initiatives.

75. SEEM-IOC Launched at AdiShankara Institute of Engineering and Technology (ASIET), Kalady



The Inaugural Ceremony of the SEEM-IOC (Society of Energy Engineers and Managers - Industry Outreach Center) was held with pride and enthusiasm at the AdiShankara Institute of Engineering and Technology (ASIET), Kalady. The event was organized by the Department of Electrical and Electronics Engineering (EEE) and marked a significant step towards bridging the gap between academia and industry in the field of energy management and sustainability.

The session witnessed the presence of esteemed academicians, faculty members from the EEE and Mechanical departments, and a large gathering of enthusiastic students from the EEE stream. As part of the ceremony, certificates were distributed to the newly inducted SEEM student members from the S3 EEE batch, acknowledging their commitment to energy awareness and professional development. The proceedings began with a warm welcome address by Dr. Deepa Sankar, Head of the Department, EEE, ASIET. She extended her greetings to the dignitaries and participants, highlighting the relevance of industry-academic collaboration in today's dynamic technological environment.

Ms. Gomathy S, Associate Professor, EEE Department and SEEM mentor, presented an insightful overview of SEEM's vision, objectives, and structure, emphasizing the role of the Industry Outreach Center in providing students with real-world exposure to energy engineering practices.

The **presidential address was delivered by Dr. M. S. Murali**, Principal, ASIET, who commended the organizing team for their efforts and encouraged students to actively participate in SEEM initiatives to enhance their professional growth.

The highlight of the event was the **formal inaugural address by the Chief Guest, Mr. Mohandas T. V.**, Retired HoD, Mechanical Engineering, Majlis Polytechnic College, and BEE Certified Energy Auditor. In his keynote address, Mr. Mohandas inspired students to delve into the growing field of energy auditing and sustainability, sharing his experience and emphasizing the importance of practical exposure and skill development.

The ceremony concluded with a **vote of thanks by Dr. Sreena Sreekumar**, Associate Professor, EEE Department and SEEM Faculty-in-Charge. She expressed heartfelt gratitude to all dignitaries, faculty members, students, and the organizing committee for their collective efforts in making the launching ceremony a resounding success.

The establishment of the SEEM-IOC at ASIET is expected to catalyze industry-academia engagement and empower students to contribute meaningfully to the energy sector through hands-on learning and knowledge sharing.



76. SEEM-IOC Launched at Amal Jyothi College of Engineering

The Launching Ceremony of the SEEM-IOC (Society of Energy Engineers and Managers - Industry Outreach Center) was successfully held at Amal Jyothi College of Engineering, marking a major milestone in strengthening industry-academia collaboration in the field of energy efficiency and sustainable practices.

The event was graced by the presence of distinguished keynote speakers Shri. Krishnakumar and Shri. Azeem K, who delivered thought-provoking addresses, setting an inspiring tone for the newly launched center. Their insights highlighted the growing importance of industry engagement in shaping the future of engineering education, especially in energy management, sustainability, and climate action.

The SEEM-IOC aims to provide students with practical exposure to industrial energy practices and foster a culture of innovation and responsible engineering. The launch was attended by faculty members, students, and invited guests, all of whom welcomed the initiative with enthusiasm.

The establishment of the SEEM-IOC at Amal Jyothi College is expected to play a key role in empowering students with the skills and knowledge required to contribute meaningfully to the energy sector, aligning with national sustainability goals.

77. SEEM Karnataka Hosts Webinar on Environmental Impact Assessment (EIA) for Green Buildings

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter successfully organized an online webinar on “Outlines of Environmental Impact Assessment (EIA) for Green Buildings” on Saturday, 9th August 2025, from 7:30 PM to 8:30 PM IST via Google Meet.

The session was led by Dr. Jayanthi Nagakumar, a distinguished Environmental Impact Specialist with over 35 years of professional experience in environmental management and sustainability. She provided valuable insights into the Environmental Impact Assessment (EIA) process and its specific application to green building projects.

In her presentation, Dr. Nagakumar elaborated on:

- The concept of EIA and its growing importance in construction and urban development.
- Key components and procedural steps involved in the EIA process.
- The critical role of EIA in promoting sustainable and eco-friendly building practices.
- Real-world examples and case studies that highlighted the effective implementation of environmental assessment in green projects.

The webinar concluded with an engaging interactive Q&A session, where participants from diverse backgrounds—ranging from energy management, environmental engineering, architecture, construction, and urban planning, to students—actively discussed practical aspects of sustainability and environmental compliance.

The program reaffirmed SEEMS Karnataka’s commitment to promoting knowledge-sharing and capacity building in the areas of energy efficiency, environmental stewardship, and sustainable development.

78. SSET and SEEM IOC Organize Seminar on “Campus to Corporate”

The Department of Electrical and Electronics Engineering, SSET, in association with the Society of Energy Engineers and Managers (SEEM) – IOC, organized a seminar to prepare students for a smooth transition from campus to the professional world. The event aimed to bridge the gap between academic learning and industry expectations, equipping students with the skills and insights needed to thrive in their careers.



The program commenced with a Presidential Address by Dr. Jayanand, Head of the Department, EEE, SSET, who emphasized the importance of industry readiness and the role of interactive learning platforms in shaping students’ professional journeys. The seminar witnessed the enthusiastic participation of all students from the Department of Electrical and Electronics Engineering.

79. Online Expert Talk on “Powering Your Potential: A Journey into Energy Career and Innovations”

The Department of Electrical and Electronics Engineering, VISAT College of Engineering organized an **Online Expert Talk** on “*Powering Your Potential: A Journey into Energy Career and Innovations*” on **2nd August 2025**, with the aim of inspiring students to explore opportunities and innovations in the energy sector.

The session began with a warm **welcome address** by **Ms. Anamika Sasidharan**, a student of S7 EEE, who greeted the dignitaries, faculty members, and participants, setting the stage for an engaging and enriching program.

The **keynote address** was delivered by **Mr. Richu Zachariah**, Head of Energy Intelligence at Zero-Watt Energy and Treasurer of SEEM Kerala Chapter. In his insightful talk, he highlighted the **evolving energy landscape**, exploring diverse energy sources and their future relevance. He elaborated on the **wide spectrum of career opportunities** in the energy sector, ranging from technical roles and emerging fields to skilled trades. He further emphasized the role of **innovations** such as **artificial intelligence in the energy sector**, advancements in **battery and storage technologies**, and the importance of **continuous skill development** for aspiring professionals.

The session also featured an **interactive Q&A**, where students and faculty actively participated by posing questions and sharing perspectives. Mr. Zachariah responded with great enthusiasm, making the discussion lively, informative, and thought-provoking.

The event concluded with a heartfelt **vote of thanks** by **Ms. Safiya Thahzeen O.A**, a student of S7 EEE, who expressed gratitude to the expert speaker, organizers, and attendees for their valuable contributions to the success of the program.

The expert talk proved to be **highly impactful and enlightening**, offering students a deeper understanding of the challenges and opportunities in the field of Electrical and Electronics Engineering. It reinforced the idea that the **energy sector is not merely an industry but a driving force shaping the planet's sustainable future**. By engaging in careers and innovations in energy, young professionals can unlock their true potential while contributing to a more equitable and sustainable world.

80. SEEM-IOC Launched at Amal Jyothi College of Engineering

The Launching Ceremony of the Society of Energy Engineers and Managers – Institution Chapter (SEEM – IOC) was held at Amal Jyothi College of Engineering, in association with IQAC-AJCE. The event aimed to formally inaugurate the chapter, introduce its objectives, and create awareness on sustainable energy strategies. The ceremony commenced at 11:25 AM with a prayer, setting a solemn and respectful tone for the event. Dr. Roshan Kuruvila, Head of the Department of Mechanical Engineering, welcomed the gathering and introduced the significance of SEEM's initiatives.

This was followed by the presidential address delivered by Dr. Lillykutty Jacob, Principal of AJCE, who appreciated the efforts taken towards promoting sustainable energy practices.

Mr. G. Krishna Kumar, National General Secretary of SEEM, then provided an overview of the Society of Energy Engineers and Managers, its mission, and activities. He also officially inaugurated the Institution of Chapter and handed over the SEEM IOC Certificate to the Principal Dr. Lillykutty Jacob. Dr. Arun S., Head of the Department of Electrical and Electronics Engineering, extended his felicitations and expressed support for the chapter's initiatives. Mr. Alen John Kurian, Student Secretary of AJCE SEEM – IOC, delivered the vote of thanks, expressing gratitude to all dignitaries, guests, faculty members, and students for their participation and contributions.



The event concluded with an expert session on “Pathway to Net Zero: Strategies for a Carbon-Neutral Future” by Mr. Azeem K, Director of Alenso Energy Private Limited, who discussed practical approaches towards achieving carbon neutrality.

At the end of the technical session, tokens of appreciation were presented to Mr. Azeem K and Mr. G. Krishna Kumar in recognition of their valuable contributions to the event.

The launching ceremony of SEEM – IOC marked a significant step in promoting energy efficiency and sustainability initiatives within the institution. The presence of distinguished guests and the technical session enriched the knowledge of participants, inspiring them to work towards a sustainable future.

81. SEEM Karnataka Hosts Webinar on Environmental Impact Assessment (EIA) for Green Buildings

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter successfully organized an online webinar on the topic “Energy Efficiency in Municipal Pumping in India” on Saturday, 13th September 2025, from 7:30 PM to 8:30 PM IST. The session was free and open to all, attracting participation from energy professionals, engineers, students, and sustainability enthusiasts from across the country.

The expert session was delivered by Mr. I. Thanumoorthi, Director – Projects & Consulting, Enspar Energy Solutions Pvt. Ltd., and an Accredited Energy Auditor under the Bureau of Energy Efficiency (BEE), Ministry of Power, Government of India.

Mr. Thanumoorthi holds a Master’s degree in Energy Engineering from Anna University, Chennai, and brings with him over 28 years of extensive experience in the fields of energy efficiency, renewable energy, energy management IT platform development, and real-time energy management leveraging Artificial Intelligence (AI) and Machine Learning (ML).

During the session, Mr. Thanumoorthi shared valuable insights on the current scenario of municipal water pumping systems in India, their energy consumption patterns, and the potential for improvement through efficient design, operation, and technology adoption. He emphasized the importance of performance assessment, system optimization, and integration of digital tools to achieve significant energy savings in municipal infrastructure.

The webinar concluded with an engaging question-and-answer session, where participants actively interacted with the speaker, seeking guidance on practical implementation and case studies from across the country.

The session was highly appreciated by attendees for its technical depth, relevance, and practical approach toward enhancing energy efficiency in municipal pumping systems — a crucial area in India’s journey toward sustainability and net-zero goals.

82. Webinar on “Implementation of Rooftop Solar and Its Effect on Power Factor” Organized by SEEM Maharashtra Chapter

The Society of Energy Engineers and Managers (SEEM), Maharashtra Chapter organized an enlightening online webinar titled “Implementation of Rooftop Solar and Its Effect on Power Factor” on Saturday, 4th October 2025, from 7:30 PM to 8:30 PM IST. The session was free and open to all, drawing participation from energy professionals, engineers, and sustainability enthusiasts across the country.

The session was presented by Mr. Sudhir Budhay, a veteran in the energy sector, renowned Solar Power Project Consultant and Mentor, with decades of experience in the field of renewable energy and energy management.

In his engaging presentation, Mr. Budhay offered a deep dive into the technical, operational, and financial aspects of implementing rooftop solar projects. He discussed the challenges industries and commercial establishments face during project execution and highlighted strategies for optimizing system performance. A key focus of the session was on the impact of rooftop solar installations on power factor, explaining how effective system design, inverter selection, and reactive power management can ensure grid stability and enhance overall energy efficiency.

The webinar concluded with an interactive question-and-answer session, where participants actively engaged with the speaker, seeking expert insights on policy trends, system design, and performance optimization.

The session was widely appreciated for its clarity, technical depth, and practical relevance, aligning with SEEM’s ongoing mission to promote knowledge sharing and foster sustainable energy practices across the nation.

83. Webinar on “Occupational Health & Safety Awareness for Industry & Energy Engineers” Organized by SEEM Karnataka Chapter

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter organized an insightful online webinar on “Occupational Health & Safety Awareness for Industry & Energy Engineers” on Saturday, 11th October 2025, from 7:30 PM to 8:30 PM IST. The session was free and open to all, drawing enthusiastic participation from professionals, engineers, and students across various sectors.

The session was led by Mr. Murali Bala Srinivasaiah, a Senior Safety, Health & Environment (HSE) Professional with over 25 years of rich experience in India and the Middle East, including the UAE, Oman, and Saudi Arabia.

Throughout his illustrious career, Mr. Murali Bala has worked with reputed organizations such as Thyssenkrupp Industrial Solutions (India) Pvt. Ltd., Petron Civil Engineering Pvt. Ltd., Bureau Veritas (India) Pvt. Ltd., ACC Ltd., AGAP Arabia Ltd., and Goa Shipyard, handling diverse responsibilities in the field of Health, Safety, and Environment management.

During the webinar, Mr. Murali Bala emphasized the importance of integrating Occupational Health and Safety (OHS) practices into daily industrial operations. He elaborated on risk identification, hazard control, emergency preparedness, and the evolving safety standards applicable to industries and energy professionals. The session also highlighted the need for continuous training and awareness among energy engineers to foster a safe, efficient, and sustainable workplace.

The presentation was followed by an engaging interactive Q&A session, where participants sought guidance on practical safety measures and compliance best practices.

The webinar was highly appreciated for its relevance, clarity, and practical insights, reinforcing SEEM’s commitment to promoting a safe and sustainable industrial ecosystem through continuous professional development.

84. SEEM Inaugurates Industry Outreach Center at Shri Ramswaroop Memorial University, Lucknow

On the occasion of Engineers’ Day, the Society of Energy Engineers and Managers (SEEM) marked a significant milestone with the inauguration of its first Industry Outreach Center (IOC) in Uttar Pradesh at Shri Ramswaroop Memorial University (SRMU), Lucknow. The center was inaugurated by Dr. C. S. Azad,



Immediate Past General Secretary of SEEM, in the presence of distinguished academicians, industry professionals, and students.

The establishment of this center aims to strengthen industry-academia collaboration and build a foundation for a sustainable future. The IOC is envisioned to function as a vibrant hub for facilitating internships and training programs for students, conducting energy audits and technical sessions for faculty and students, and promoting research, innovation, and entrepreneurship development in the fields of energy efficiency and sustainability.

During the ceremony, a Memorandum of Understanding (MoU) was signed between SEEM and SRM University to formalize their partnership. The MoU was exchanged

between Er. Ashutosh Shrivastava, President of SEEM Uttar Pradesh Chapter and former Executive Director, UP DISCOM, and Dr. R. S. Bajpai, Dean, SRMU, in the august presence of Shri Vikas Mishra, Vice Chancellor, SRMU.

Dr. Mohan Khedkar, Vice President, SEEM, addressed the gathering online and shared his vision for strengthening SEEM's outreach initiatives across academic institutions. Other notable speakers included Shri Ashok Shrivastav, former Director, UPPCL, and Dr. V. K. Singh, former Vice Chancellor, MGS University, who emphasized the importance of integrating academic knowledge with industry expertise to drive innovation and sustainable growth.

85. SEEM Karnataka Chapter Organized Webinar on “Clean Air Meets Clean Energy”

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter successfully organized an insightful online webinar on “Clean Air Meets Clean Energy – Sustainable Gas Phase Filtration for Modern Environments” on 8th November 2025 (Saturday) from 7.30 PM to 8.30 PM (IST).

The session was presented by Er. Deepak Puranik, Co-founder & Country Head at Indifil, a seasoned professional with over 25 years of experience in the building industry. An alumnus of SJCE Mysore and BITS Pilani, Deepak has held multiple leadership roles in India, specializing in HVAC systems, building automation, indoor air quality, and air filtration.

During the session, Er. Puranik highlighted the growing importance of integrating clean air technologies with sustainable energy solutions in modern built environments. He elaborated on innovative gas phase filtration techniques that not only enhance air quality but also contribute to energy efficiency and sustainability goals. The discussion emphasized how clean energy and clean air are interlinked pillars for achieving healthier and more sustainable indoor ecosystems.

The interactive webinar drew participation from professionals, engineers, and students across various regions. Participants engaged actively during the Q&A session, gaining valuable insights into the latest trends and technologies driving the green building movement.

The webinar was free and open to all, reflecting SEEM's continued commitment to promoting knowledge sharing and awareness in the field of energy management and sustainability.

86. Advancing Sustainable Energy Innovation and Citizen Participation



On the occasion of National Energy Conservation Day 2025, observed with the theme “Advancing Sustainable Energy Innovation and Citizen Participation,” Mr. G. Krishnakumar, General Secretary, SEEM, addressed the employees of the Central Public Sector Enterprise Hindustan Organic Chemicals Limited (HOCL).

In a departure from conventional practice where such programmes are largely attended by engineering personnel, the HOCL management brought together a heterogeneous group of employees from various departments. This inclusive approach was well aligned with this year's theme, emphasizing citizen participation in energy conservation.

HOCL, already recognized as a proactive organization, holds all major management system certifications, including Energy Management Systems, and is known for regularly organizing training programmes on topics of contemporary and operational relevance. During the interactive two-hour session, Mr. Krishnakumar highlighted the importance of energy conservation and stressed the role of individuals in contributing towards sustainable energy practices, both at the workplace and in daily life.

The session was highly engaging and informative, reinforcing the organization's commitment to sustainability and underscoring the collective responsibility of employees in advancing national energy conservation goals.

87. The Indian Energy Conclave 2025

The Indian Energy Conclave 2025 was organized as part of the SEEM National Energy Management Awards 2024 on 19th & 20th November 2025 at The Suryaa in New Delhi. Approximately 500 energy professionals attended the conclave.



On the 1st Day 19th November, the event commenced with a silent prayer, followed by a welcome address delivered by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar R Nair, National President of SEEM, then delivered the presidential address. Shri. Arun Goyal IAS (Retd), Former Secretary, Govt of India Former Member, CERC graced the occasion as chief guest, Shri Jeevan Kumar Jethani Sr Director, MNRE, New Delhi, Shri. Abhishek Gupta Head - International, Strategy, Appliances, Rooftop Solar & Project Evaluation & Assessment, EESL graced the occasion as guest of honor. Shri. Arun Goyal IAS (Retd) officially inaugurated the event by Watering the plant, joined by other dignitaries and delivered the inaugural address. Mr. Jayesh Darji, chairman of SEEM Awards, offered the vote of thanks.

This opening ceremony was followed by the technical sessions. Mr Jayakumar Nair, National President- SEEM presented on the topic of Successful Decarbonisation Strategies. A question and answer session followed by the presentation. Mr A.Hashim Fowzan, Founder of Holistiq AI India Pvt Ltd presented on the topic of AI-Driven Innovative Products & Solutions for Transforming Energy Audits into High-Impact Decisions. A question and answer session followed by the presentation. Dr. L Ashok Kumar, Principal- Thiagarajar College of Engineering presented on the topic Green Initiatives @ Thiagarajar College of Engineering. A question and answer session followed by the presentation. Mr. Prem Chander, Mechanical & HVAC Engineer- Christian Medical College Vellore presented on the topic Energy efficient & best practices in hospital Engineering Services- CMC Vellore, Ranipet Campus. A question and answer session followed by the presentation, correct the report



Shri. Arun Goyal IAS (Retd), Former Secretary, Govt of India Former Member, CERC



Shri Jeevan Kumar Jethani Sr Director, MNRE, New Delhi



Mr. Jayesh Darji, chairman of SEEM Awards

On the 2nd Day 20th November, the event commenced with a silent prayer, followed by a welcome address delivered by Mr. G. Krishnakumar, General Secretary of SEEM. Mr. Jayakumar Nair, National President of SEEM, then delivered the presidential address. Dr. Mohammad Rihan, Director General of the National Institute of Solar Energy (NISE) officially inaugurated the event by watering the plant, joined by other dignitaries and delivered the inaugural address. Mr. Jayesh Darji, Chairman - SEEM Awards, offered the vote of thanks.

This opening ceremony was followed by the technical sessions. Shri. Sathish Kumar S, Technical Consultant, Janitza electronics, GmbH, Germany enrich us on the topic "Energy Accounting and Asset Management &

Power Quality for Industries / Buildings with Janitza Solutions”. A question and answer session followed by the presentation. Shri. Abhimanyu Mittal, General Manager - DE Renewables Aggregation India Pvt. Ltd. presented on the topic “Complete Solar Solution For The Commercial & Industrial Segment”. A question and answer session followed by these presentations. Shri. V.Pajanivelou, Electrical & Electronics Engineering Professional- Hanon Automotive Systems, Tamil Nadu presented on the topic “Energy Management & Sustainability Initiatives @ Hanon Systems”. A question and answer session followed by these presentations. Shri. S Haribasker, Assistant Manager in plant engineering- TVS Motor Company Limited, Hosur, Tamil Nadu presented on the topic “Energy Management in TVSM”. A question and answer session followed by these presentations. Shri. P.G.Chil Prakash, Managing Director- Chilton Refrigeration Pvt Limited presented on the topic Dual Purpose Air Conditioner. A question and answer session followed by these presentations. Shri. John Selvin, DGM- Ashok Leyland Foundry Division, Sriperumbudur presented on the topic “Driving Sustainability through Energy Efficiency and EHS Excellence”. A question and answer session followed by these presentations.



Dr. Mohammad Rihan, Director General of the National Institute of Solaz Energy (NISE)



Mr. G. Krishnakumar, General Secretary of SEEM



Shri. Abhishek Gupta Head – International, Strategy, Appliances, Rooftop Solar & Project Evaluation & Assessment, EESL



Mr. Jayakumar, Nair, National President of SEEM

89. SEEM Awards 2024



SEEM Awards 2024 took place on 19th and 20th November 2024 at The Suryaa, New Delhi, with approximately 500 energy professionals from diverse sectors in attendance. On the first day, the event was graced by Dr. Ashok Kumar, Deputy Director General, Bureau of Energy Efficiency (BEE), as Chief Guest. Shri S.P. Garnaik, Country Representative India at Global Green Growth Institute, and Shri Sandeep Tandon, National Project Manager, UNIDO – Facility for Low Carbon Technology Deployment (FLCTD), attended as Guests of Honour. Awards were presented across various categories, including National Sustainability, National Electrical Safety Champion, National Energy Management Award –

Star SDA Award, and Facilities Awards in Platinum, Gold, Silver, and Star Performance categories, to deserving winners from corporates, industries, and institutions, selected by a national jury appointed by SEEM. This edition marked the 10th anniversary of the SEEM Awards, with a significant increase in participation, receiving over 200 nominations for 2024.

The first day commenced around 2:00 pm with a welcome address by Mr. G. Krishnakumar, General Secretary of SEEM, followed by the presidential address by Mr. Jayakumar Nair, President of SEEM. Smt. Gayatri Nair, Jury Chairman of SEEM Awards, explained the selection process and emphasized the

commitment to recognizing quality and merit. The Chief Guest, Dr. Ashok Kumar, along with Shri S.P. Garnaik and Shri Sandeep Tandon, inaugurated the event by watering a sapling and felicitated the function.



Honoured Smt. Gayatri Nair, Jury Chairman of SEEM Awards



Dr. Ashok Kumar, Deputy Director General, Bureau of Energy Efficiency (BEE),



HVAC Legacy Award received by Shri P.G. Chil Prakash

HVAC Legacy Award was received by Shri P.G. Chil Prakash, Managing Director, Chilton Refrigeration Pvt. Ltd., and SEEM recognized the individuals who have contributed to the SEEM Awards over the past 10 years, and the recognition was received by Shri Jayakumar Nair, President of SEEM, Smt. Gayatri Nair, Jury Chairman of SEEM Awards and Ms. Rashmi Arora, Director – Kiefer India Pvt. Ltd.

SEEM National Sustainability Award for Best Chief Executive Officer –Promoting Sustainability was received by Shri. Rajesh Singh Rana, IAS, CEO - Chhattisgarh Renewable Energy Development Agency (CREDA). **SEEM Sustainability Corporate House- Gold Award** was received by ITC Royal Bengal & ITC Sonar, Kolkata, West Bengal. **SEEM Sustainability Corporate House- Platinum Award** was received by Brigade Tech Gardens, developed by Brigade Enterprises Ltd., is managed by WTC Trades & Projects Pvt. Ltd., Bengaluru & GSH India Pvt. Ltd., Chennai, and Tamil Nadu.

National Electrical Safety Champion Gold Award was received by HKRP Innovations Limited, Ahmedabad, and Gujarat.



Star SDA Award received by Chhattisgarh Renewable Energy Development Agency (CREDA). Star Performance Award in Certified Energy Auditor category received by Dr. S.R. Sivarasu, Managing Partner, Ram-Kalam Center for Energy Consultancy & Training, Tamil Nadu, Star Performance Award in Certified Energy Manager category received by Shri. Khileshwar Kumar Gajpal, CEM - Hindalco Industries Limited, Hirakud, Odisha. Certificate Of Appreciation - CEM in Energy Audit Firm category received by

Shri. Vaibhav Sharma Energy Manager- IIT Indore, Madhya Pradesh. Star Performance Award in Energy Audit Firm category received by IEAC IIT Indore, Madhya Pradesh & Bigeta Energy Solutions LLP, Bengaluru, and Karnataka.

SEEM Platinum Awards for facilities were received by organizations such as Jaipur International Airport Limited, Jaipur, Rajasthan, TRV (Kerala) International Airport Ltd., Thiruvananthapuram, Kerala, Brigade Tech Gardens, developed by Brigade Enterprises Ltd., is managed by WTC Trades & Projects Pvt. Ltd., Bengaluru, Karnataka, Christian Medical College, Vellore, Tamil Nadu, The Residency, Chennai, Tamil Nadu, Taj Club House, Chennai, Tamil Nadu, Schloss Chennai, Tamil Nadu Private Limited, Chennai, Tamil Nadu,

Quest Global Engineering Services Pvt Ltd, Thiruvananthapuram, Kerala, Thiagarajar College of Engineering, Madurai, Tamil Nadu.

SEEM Gold Awards for facilities were received by organizations such as Lucknow International Airport, Lucknow, Uttar Pradesh, Mangaluru International Airport Limited, Manglauru, Karnataka, Vydehi Institute of Medical Science and Research Center, Bangalore, Karnataka, Caritas Hospital & Institute Of Health Sciences, Kottayam, Kerala, The Residency Towers, Puducherry, Lulu International Shopping Malls Pvt. Ltd. Trivandrum, Kerala, World Trade Center, Kochi, Kerala, LTI Mindtree Limited, Pune, Maharashtra.

SEEM Gold Awards for industry was received by Setco Auto Systems Pvt. Ltd., Vadodara, and Gujarat. SEEM Gold Awards for Corporate House was received by Amalgamated Plantations Pvt. Ltd., Kolkata, and West Bengal.



Tata Consumer Products Limited, Gopalpur, Odisha received Gold award



TVS Motor Company Limited, Hosur, Tamil Nadu received Platinum award

On the second day, the event was attended by energy professionals from diverse sectors. Shri Dhiraj Kumar Srivastava, Director General, BEE, graced the occasion as Chief Guest, with Guests of Honour including Dr. Manoj Kumar Upadhyay, Deputy Adviser (Energy), NITI Aayog, Shri Milind Bhikanrao Deore, Secretary, BEE, Shri Souvik Bhattacharjya, Director, Resource Efficiency & Governance, TERI, and Shri S.P. Garnaik, Global Green Growth Institute. Awards in Platinum, Gold, and Silver categories were presented to winners across sectors and industries, selected by a national jury appointed by SEEM.

The second day began at 2:00 pm with a welcome address by Mr. G. Krishnakumar, followed by the presidential address by Mr. Jayakumar Nair. Smt. Gayatri Nair reiterated the commitment to recognizing quality and merit, and Shri Dhiraj Kumar Srivastava, Director General, Bureau of Energy Efficiency (BEE) inaugurated the proceedings by watering a sapling alongside other dignitaries and felicitated the function.

The **Sustainability Icon of the Year** was awarded to Shri Rajeev Nambiar, President & COO, Paradeep Phosphates Ltd., Karnataka, and **Best CEO /COO- Promoting Sustainability** to Shri. R. Krishnakumar CEO & MD, Shree Digvijay Cement Company Limited, Gujarat, Shri Bhuvanesh Chandra Pandey, COO, Jash Engineering Ltd., Indore. **SEEM Sustainability Corporate House Platinum Awards** went to Ashok Leyland – Foundry Divisions (Sriperumbudur & Ennore, Tamil Nadu), JSW Energy Ltd., Bellari & Ratnagiri, Centum Electronics Ltd., Bengaluru, Hanon Automotive Systems, Chengalpattu, Pallavaram Tanners Industrial Effluent Treatment Co. Ltd., Chennai, Good Leather Company, Tamil Nadu, and JK Tyre & Industries Ltd., Chennai.

SEEM Platinum Awards for industries were received by organizations such as Hanon Automotive Systems India Pvt. Ltd, Chengalpattu, Tamil Nadu, TVS Motor Company Limited, Hosur, Tamil Nadu, Shree Digvijay Cement Company Ltd., Jamnagar, Gujarat, Ipca Laboratories Limited, Ratlam, Madhya Pradesh, Alivus Life Sciences Ltd, Ankleshwar, Gujarat, Centum Electronics Ltd, SEBU Division, Bengaluru, Karnataka, Centum Electronics Limited, Jala Hobali, Bengaluru, Karnataka, Godrej Consumer Products Limited, Malanpur, Madhya Pradesh, Tata Consumer Products Limited, Sri City, Andhra Pradesh, Ashok Leyland-Foundry Division, Sriperumbudur, Tamil Nadu, Ashok Leyland- Foundry Division, Ennore, Tamil Nadu, Grasim Industries Ltd., Unit - Century Rayon, Thane, Maharashtra, MSP Steel & Power Ltd., Raigarh, Chhattisgarh,

BILT Graphic Paper Products Ltd., Ballarpur Unit, Chandrapur, Maharashtra, Godawari Power & Ispat Ltd., Raipur, Chhattisgarh, JSW Steel Coated Products Ltd., Tarapur, Maharashtra, JSW Energy Limited, Bellari, Karnataka, JSW Energy Limited, Ratnagiri, Maharashtra, ITC Limited Agri Business Division, Chirala, Andhra Pradesh, Apollo Tyres Limited, Perambra, Kerala, Apollo Tyres Limited, Kalamassery, Kerala, Apollo Tyres Limited, Chennai, Tamil Nadu, JK Tyre & Industries Ltd., Chennai, Tamil Nadu, Ultratech Cement Ltd., Unit : Birla white – Katni, Madhya Pradesh, Paradeep Phosphates Limited, Mangalore Unit, Paradeep Phosphates Limited, PPL-Paradeep Unit, Odisha.

SEEM Gold Awards for industries were received by organizations such as The Supreme Industries Limited, Mahabubnagar, Telangana, The Supreme Industries Limited, Medinipur, West Bengal, Jash Engineering Limited, Indore, Madhya Pradesh, Ashok Leyland, Unit-2, Hosur, Tamil Nadu, Nitta Gelatin India Ltd, Thrissur, Kerala, MILMA Malappuram Dairy, Malappuram, Kerala, Dodla Dairy Limited, Nellore, Andhra Pradesh, Tata Consumer Products Limited, Gopalpur, Odisha, Tata Consumer Products Limited, Sampla, Haryana, Sarda Energy & Minerals Limited, Raipur, Chhattisgarh, Ramkrishna Foundry Pvt Ltd., Kolhapur, Maharashtra, Paradeep Phosphates Limited, PPL – GOA unit, Zuarinagar, Goa, Shyam sel and Power Ltd, Jamuria, West Bengal, DB Power Ltd., Badadarha, Chhattisgarh, Viyyat Power Private Limited, Idukki, Kerala, Hindalco Industries Limited, Hirakud, Odisha, Rathnam Leathers, Chennai, Tamil Nadu, Ranipet Tannery Effluent Treatment Company, Ranipet, Tamil Nadu.

SEEM Silver Awards for industries were received by organizations such as Plasser (India) Private Limited, Vadodara, Gujarat, Adhunik Power & Natural Resources Ltd, Kandra, Jharkhand. Overall, the SEEM Awards 2024 highlighted outstanding achievements in energy efficiency and sustainability, reinforcing the vital role of industry leaders and institutions in shaping a greener and more energy-conscious future for India.

90. National Energy Conservation Quiz Organized at ASIET

SEEM–IOC (Society of Energy Engineers and Managers – Industry Outreach Center), in association with the Department of Electrical and Electronics Engineering (EEE), Adi Shankara Institute of Engineering and Technology (ASIET), organized the National Energy Conservation Quiz on December 5, 2025, at the EEE Seminar Hall.

The quiz, conducted on the important theme of Energy Conservation, witnessed enthusiastic participation from 29 students representing various departments of the Institute. Reflecting the competitive spirit of the event, the quiz was conducted in three challenging rounds. After the preliminary round, 15 students qualified for the second round, from which five participants advanced to the final round.

After an intense final round, Athul R. Kumar of S4 EEE emerged as the overall winner of the competition. The prize was presented by Dr. Deepa Sankar, Head of the Department, EEE, in the presence of Ms. Gomathy, Faculty Mentor, SEEM–IOC, and Dr. Sreena Sreekumar, Faculty-in-Charge, SEEM–IOC. Participation certificates were awarded to all the participants.

The event concluded on a highly positive note, effectively promoting awareness and reinforcing students' commitment towards energy conservation and sustainable practices.

91. Webinar on “IoT & AI-Based Energy Intelligence for Industries – A Future-Proof Way Towards Sustainable Business”

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, successfully organized an online webinar titled “IoT & AI-Based Energy Intelligence for Industries – A Future-Proof Way Towards Sustainable Business” on Saturday, 13th December 2025, from 7.30 pm to 8.30 pm IST. The webinar, which was free and open to all, attracted a wide audience of industry professionals, energy managers, and students keen on understanding emerging technologies for energy efficiency and sustainability.

The session was led by Mr. Subin Abid, Co-Founder and Chief Product Officer of Zerowatt Energy Intelligence Systems. With over 14 years of experience at NTPC Limited, Mr. Abid has extensive expertise in power plant construction, testing and commissioning, large-scale project execution, and strategic support to NTPC's Director (Projects & Technical). He is a Mechanical Engineering graduate from the College of Engineering, Trivandrum, and an EPGP alumnus of IIM Kozhikode.

During the webinar, Mr. Abid explained how AI and IoT-enabled energy intelligence platforms are redefining industrial and commercial energy management. He highlighted the capabilities of Zerowatt, an advanced AI + IoT-based energy and process intelligence platform backed by IIT Madras, which acts as a digital brain for facilities. The platform goes beyond monitoring by automatically identifying energy losses, process inefficiencies, and equipment health issues, while providing real-time insights and recommendations for continuous operational excellence and round-the-clock sustainable energy savings.

The webinar was highly informative and reinforced SEEM Karnataka Chapter's ongoing efforts to promote innovation-driven, sustainable business practices across industries.

92. SEEM Karnataka Chapter Organized Webinar on Digital Transformation for SMEs

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, successfully organized an online webinar on "Digital Transformation Steps for Comprehensive Resource Management & Profitability in SMEs" on Saturday, 10th January 2026, from 7.30 pm to 8.30 pm IST. The webinar was free and open to all, and saw active participation from professionals, entrepreneurs, energy managers, and students from across the country.

The session was delivered by Mr. Shadakshari Swamy B C, Founder and CEO of Agamin Group, a seasoned technology professional with over two decades of experience in developing sustainable and tech-enabled solutions. During the webinar, Mr. Swamy highlighted the critical role of digital transformation in enabling small and medium enterprises (SMEs) to achieve efficient resource management, enhanced operational efficiency, and improved profitability.

He shared practical insights on adopting digital tools, data-driven decision-making and user-centric approaches to streamline business processes and build competitive advantage. The presentation also emphasized the importance of collaborative teams and aligning digital initiatives with long-term business sustainability.

Mr. Swamy, who is also a member of the Confederation of Indian Industry (CII) Karnataka State Council for 2025-26, provided valuable perspectives on how digital adoption can contribute to regional industrial development and inclusive growth.

The webinar concluded with an interactive question-and-answer session, enabling participants to clarify real-world implementation challenges. SEEM Karnataka Chapter continues to promote professional knowledge sharing and capacity building through such impactful programs for the benefit of the energy and engineering community.

93. SEEM Maharashtra Chapter Organizes Webinar on the Need for BESS in the Present Power Scenario

The Society of Energy Engineers and Managers (SEEM), Maharashtra Chapter, successfully organized an online webinar on "Deep Dive in Needs of BESS in the Present Power Scenario" on Saturday, 20th December 2025, from 7:30 pm to 8:30 pm IST. The webinar was free and open to all, witnessing active participation from energy professionals, power sector experts, consultants, and students from across the country.

The session was delivered by Mr. Sudhir Budhay, a distinguished energy sector veteran, solar power project consultant and mentor, and a Life Member of SEEM. Drawing from his vast industry experience, Mr. Budhay

provided an in-depth overview of the growing importance of Battery Energy Storage Systems (BESS) in the current power sector landscape.

During the webinar, the speaker highlighted the critical role of BESS in addressing grid stability challenges, supporting renewable energy integration, improving power reliability, and enhancing energy efficiency. He elaborated on the technical, operational, and economic aspects of energy storage systems, along with their applications in peak load management, frequency regulation, and backup power solutions.

The session also covered emerging trends, policy drivers, and future opportunities for BESS deployment in India, particularly in the context of increasing renewable energy penetration. An interactive question-and-answer session at the end enabled participants to engage directly with the speaker and gain practical insights.

SEEM Maharashtra Chapter continues to promote professional knowledge sharing and capacity building through such informative webinars, contributing to the advancement of sustainable and resilient power systems.

94. Dr. Prem Prakash Mittal Honoured with “Best Energy Auditor of India” Award



The Society of Engineers and Managers (SEEM) proudly announces that Dr. Prem Prakash Mittal, Former President of SEEM and a distinguished leader in the field of energy management, has been conferred one of the highest national recognitions, the “Best Energy Auditor of India” Award, by the Hon’ble President of India, Smt. Droupadi Murmu.

The prestigious award was presented at a formal ceremony held at Vigyan Bhawan, New Delhi, on 14th December 2025, in the presence of eminent dignitaries, senior government officials, policymakers, and professionals from the energy sector.

This honour recognizes Dr. Mittal’s outstanding contributions to energy auditing, energy efficiency, and sustainable development in India. With decades of dedicated service, he has played a pivotal role in advancing best practices in energy conservation, mentoring energy professionals, and supporting national initiatives aimed at reducing energy intensity and carbon footprint.

As Former President of SEEM, Dr. Mittal provided visionary leadership and significantly strengthened the organization’s role in promoting professional excellence and ethical practices in energy management. His commitment to knowledge sharing and capacity building has inspired countless engineers and managers across the country.

This national recognition is not only a personal milestone for Dr. Mittal but also a moment of immense pride for the entire SEEM fraternity. It reflects the collective efforts of SEEM in nurturing leaders who contribute meaningfully to the nation’s sustainability goals.

SEEM extends its heartiest congratulations to Dr. P. P. Mittal on this remarkable achievement and wishes him continued success in his mission to advance energy efficiency and sustainable practices in India.

95. SEEM Karnataka Chapter Organized Webinar on Energy Modelling & Simulation: An Overview

The Society of Energy Engineers and Managers (SEEM), Karnataka Chapter, successfully organized an online webinar on “Energy Modelling & Simulation: An Overview” on 14th February 2026 from 7:30 pm to 8:30 pm IST.

The webinar, which was free and open to all, witnessed active participation from energy professionals, HVAC engineers, sustainability consultants, and students across various regions. The session aimed to provide a comprehensive understanding of the fundamentals and practical applications of energy modelling and simulation in modern building systems.

The technical session was delivered by Mr. Soham Babu, Associate Team Manager and HVAC Engineer, who brings over 20 years of professional experience in HVAC design, energy analysis, and sustainable building systems across commercial, residential, and institutional facilities. He shared valuable insights into building energy performance assessment, simulation tools, optimization techniques, and the role of energy modelling in achieving sustainability goals.

During the interactive session, participants gained clarity on how simulation tools support decision-making in HVAC design, improve building efficiency, and contribute to energy conservation and carbon reduction strategies. The speaker also addressed queries from attendees, making the session highly engaging and informative. The webinar concluded with an invitation to participants to join the growing community of energy and sustainability professionals under SEEM and actively contribute to knowledge-sharing initiatives in the field of energy management and sustainable development.

The Karnataka Chapter expressed its commitment to continuing such knowledge-driven programs to empower professionals and promote best practices in energy efficiency and sustainability.

96. Dr. Jayaraman Conferred Dr. C.P. Menon Smaraka Puraskaram



The prestigious Dr. C.P. Menon Smaraka Puraskaram was presented to Dr. Jayaraman, Dr. Sunitha Ganesh, Dr. T. T. Sreekumar, and Hameed in recognition of their notable contributions in their respective fields.



Dr. Jayaraman received the award in the Shastrasahitya (science literature) category for his book Oorjayanam, acclaimed for promoting scientific awareness through accessible and meaningful writing. The award was presented by Dr. Junaid Bushiri, of Cochin University of Science and Technology, in the presence of eminent literary scholar Dr. M. Leelavathi.

A Founder Member of SEEM, Dr. Jayaraman has made significant contributions to academic and professional communities. The ceremony highlighted excellence in literature and scholarship, with attendees applauding the awardees for their dedication and achievements.

Heartiest congratulations to Dr. Jayaraman on this well-deserved honour. Congratulations, Sir!

97. In loving memories of Mr. Sudheendran M

The Society of Energy Engineers and Managers (SEEM) expresses its deep sorrow on the passing of Mr. Sudheendran M., Life Fellow of the SEEM Kerala Chapter. His demise is a profound loss to the SEEM fraternity and to all who had the privilege of knowing him.

As a Life Fellow, Mr. Sudheendran M. shared a long and meaningful association with SEEM. He strongly believed in the mission of promoting energy efficiency, sustainable practices, and professional excellence. His involvement reflected his commitment to the values and objectives of the Society. He was known for his sincerity, humility, and supportive nature, earning the respect and goodwill of fellow members.

Within the Kerala Chapter, he was regarded as a valued member whose presence added strength to the community. His dedication to professional growth and knowledge sharing contributed to the spirit of