



MAR BASELIOS CHRISTIAN COLLEGE OF ENGINEERING & TECHNOLOGY



'S'EnEnergy-25



Interdisciplinary International Conference

Sustainable Energy, Environment, and Technology (S'EnEnergy-2025)



‘S’EnErgy-25“Innovate, Sustain, Transform”

Mar Baselios Christian College of Engineering & Technology

Organizes

Interdisciplinary International Conference

ON

Sustainable Energy, Environment, and Technology (S’EnErgy-2025)

(Hybrid Mode)-An IQAC Initiative

About MBCCET

Mar Baselios Christian College of Engineering & Technology (MBCCET), Kuttikkanam, Peermade, is a self-financing institution providing professional education. Affiliated with Dr. APJ Abdul Kalam Technological University (KTU) and approved by the All India Council for Technical Education (AICTE), MBCCET has been instrumental in shaping the future of aspiring engineers since its inception in 2001. The college is owned and managed by the Malankara Orthodox Syrian Church, which plays a paternal role in the institutions establishment and operations. For over two decades, Mar Baselios Christian College has been committed to providing baccalaureate degree programs in various engineering disciplines, staying committed to academic excellence and innovation. The institution has a strong track record of producing graduates who excel in their fields, contributing to both industry and research. The college’s commitment to continuous improvement and quality education has led to its steady growth, with a focus on fostering a dynamic learning environment for students.

In 2025, MBCCET celebrates its Silver Jubilee, marking 25 years of dedication to providing top-tier education and nurturing student success. This milestone is a testament to the institution’s relentless pursuit of academic and professional excellence. As part of the Silver Jubilee celebrations, MBCCET is hosting the International Conference on Sustainable Energy, Environment, and Technology (S’EnErgy-2025), a platform for thought leaders, researchers, and industry experts to explore innovations in sustainability, energy efficiency, and environmental protection.

With a mission to become a center of excellence in both education and student development, MBCCET continues to focus on holistic growth, cutting-edge research, and industry partnerships.

"Synergizing Energy, Environment, and Technology for a Sustainable Tomorrow"



S'EnErgy-2025 : A Platform for Sustainable Solutions

The "International Conference on Sustainable Energy, Environment, and Technology" S'EnErgy-2025 encompasses a broad and interdisciplinary scope, aiming to address the critical challenges and advancements in sustainable development. The conference serves as a platform for researchers, practitioners, policymakers, and industry experts to share insights and collaborate on innovative solutions. Participants will engage in insightful discussions on the latest advancements in renewable energy technologies, energy efficiency measures, and environmental preservation strategies. By showcasing cutting-edge research and practical applications, S'EnErgy-2025 seeks to inspire actionable outcomes that address pressing global challenges. Through interactive sessions, workshops, and keynote presentations, attendees will contribute to shaping policies and practices that promote sustainable development worldwide. Together, we aspire to innovate, sustain, and transform our collective journey towards a greener and more resilient planet.

Conference Relevance

The conference will highlight the urgency of addressing issues like climate change, energy security, and environmental degradation. It will provide a platform for discussing innovative solutions and strategies to mitigate these challenges and promote sustainable development

Conference Objectives






- **Knowledge Sharing:** To present cutting-edge research and advancements in sustainable energy technologies, environmental management, and technological innovations.
- **Collaborative Networking:** To connect experts from academia, industry, and government to facilitate partnerships for future research and projects.
- **Research and Innovation:** To identify emerging trends, challenges, and opportunities in sustainability, leading to the development of innovative solutions and strategies.
- **Policy and Practice** To develop actionable recommendations that influence policy-making in energy, environment, and sustainable technologies.
- **Education and Awareness:** To provide a platform for students, researchers, and professionals to learn, share ideas, and engage in discussions that will drive future sustainability efforts.
- **Sustainability Leadership:** To inspire a collective commitment to addressing global sustainability challenges through shared insights, technology transfer, and community-driven initiatives.



Conference Outcomes

- **Networking Opportunities:** Connect with global experts, industry leaders, and academics to foster collaborations for future research and projects.
- **Knowledge Expansion:** Gain insights into the latest advancements in sustainable energy, environmental technologies, and innovative practices.
- **Journal Publications:** Present high-quality research with opportunities for publication in esteemed journals, including Scopus-indexed and Web of Science-listed publications.
- **Skill Development:** Enhance technical and professional skills through exposure to cutting-edge research and technological innovations in sustainability.
- **Career Advancement:** Showcase work to build reputation and advance careers for researchers, professionals, and students.
- **Cultural Awareness:** Engage with diverse global perspectives to deepen understanding of sustainability challenges.
- **Resource Access:** Access valuable educational materials and research findings to support ongoing personal and professional development.
- **Actionable Policy Recommendations:** Develop practical suggestions for sustainable energy and environmental conservation efforts at regional and global levels.
- **Technological Innovation:** Showcase emerging technologies with real-world applications for environmental protection and sustainable practices.
- **Launch of Sustainability Initiatives:** Support the creation and implementation of projects focused on energy conservation and sustainable development.



	Name	Affiliation	Expertise
	Dr.Sam Pitroda	Inventor, Entrepreneur, and Policy Maker	Pioneer in Telecom and Technology Innovations; Advisor to Government on IT and Innovation.
	Dr.Thomas Hahn	Associate Professor, Stockholm University	Ecological economics, climate action, and sustainability transformation.
	Dr.Shovan Ray	Former Professor, IGIDR, Mumbai	Economic impacts of climate change and sustainability.
	Dr.Santosh Kumar Pattanayak	Former MD, IRFC	Infrastructure financing and its role in sustainable development.
	Dr. Jolly Jose	Asso. Professor, Amity School of Communication, Amity University Noida	Environmental communication and media's role in sustainability.

Keynote Speakers: Leading Experts in Sustainability



Call for Papers

We invite prospective authors to submit original research papers and case studies for presentation at the two-day International Conference. The event will bring together renowned keynote speakers, industry professionals, academics, doctoral students, and faculty to explore key topics in technology, sustainable energy, environmental protection, and innovation. Selected papers will be showcased at the conference and published in the proceedings. High-quality submissions will also be considered for publication in reputed journals or book chapters, including Scopus-indexed and Web of Science platforms. Join us in shaping the future of sustainability!

SUBTHEMES FOR THE CONFERENCE

1. Renewable Energy Technologies

- Solar Energy:
 - Photovoltaic (PV) technology advancements
 - Concentrated Solar Power (CSP) systems
- Wind Energy:
 - Turbine technology and offshore wind farms
 - Wind resource assessment and forecasting
- Hydroelectric Power:
 - Small-scale hydro projects
 - Pumped storage and hydrokinetic technologies
- Biomass Energy:
 - Bio-fuels production and applications
 - Bio-gas and biomass co-firing in power generation

2. Sustainable Communication and Transportation

- Electric Vehicles (EVs):
 - Battery technology and charging infrastructure
 - EV adoption incentives and policies
- Public Transportation:
 - Mass transit systems and sustainable mobility
 - Integration of smart transportation technologies
- Sustainable Logistics:
 - Green freight and logistics management
 - Last-mile delivery solutions and urban logistics

3. Environmental Protection and Conservation

- Water Resource Management:
 - Sustainable water use and wastewater treatment
 - Water conservation technologies and practices
- Biodiversity Conservation:
 - Habitat restoration and species protection
 - Conservation biology and ecological restoration methods



Call for Papers

4. Policy, Regulation, and Economics for Sustainability

- Energy Policy Frameworks:
 - National and regional energy policies
 - Regulatory frameworks for renewable energy integration
- Economic Incentives:
 - Carbon pricing mechanisms and emissions trading
 - Green finance and investment opportunities in sustainability

5. Technological Solutions for Sustainable innovations

- Clean Technology Innovations:
 - Advanced materials and nanotechnology applications
 - Waste-to-energy technologies and circular economy solutions
- Sustainable Agriculture:
 - Precision farming and smart agriculture practices
 - Agro-forestry and sustainable land use management

6. Community Engagement and Education

- Local Community Initiatives:
 - Community-led renewable energy projects
 - Sustainable lifestyle and consumer behavior changes
- Environmental Education:
 - Curriculum development for sustainability education
 - Public outreach programs and environmental awareness campaigns

7. Advancing Sustainable Industrial Production Technologies

- Green Manufacturing:
 - Energy-efficient manufacturing processes
 - Industrial symbiosis and resource recovery technologies
- Eco-friendly Industrial Practices:
 - Sustainable supply chain management
 - Eco-design principles and product life cycle assessment

8. AI and Cloud Security for Sustainable Development

- AI and ML applications in environmental monitoring and management
- Cloud-based cybersecurity challenges and solutions
- Data privacy and compliance considerations for sustainable projects

9. Sustainable Design and Models

- Eco-Friendly Materials and Energy-Efficient Design
- Circular Economy and Life Cycle Assessment
- Resilient and Socially Responsible Design



Who Can Participate

Faculty, Academic Delegates, Industry Experts, Academic Administrators, Curriculum Designers, Educational Policy Makers, Students and Research Scholars.

Paper Review Process

All abstracts and full papers submitted for potential presentation at the conference will undergo a blind review process. This ensures impartial evaluation by qualified reviewers. The decision made by the reviewers will be final and binding. Acceptance notifications and any comments from the reviewers regarding the abstracts or full papers will be communicated to the corresponding author within one week of submission.

Abstract and Paper Submission-General Guidelines

Abstract Submission:

- **Deadline:** Submit an extended abstract on or before November 24, 2024.
- **Language:** The official conference language for all papers and presentations is English.
- **Content:** Abstracts must clearly indicate the purpose of the paper, major results, implications, and key references. Authors should specify the relevant conference track.
- **Word Limit:** 300-400 words (excluding title/cover page)
- **Font and size:** Times New Roman – Head 14 Bold, Body 12 (Line spacing 1.5 and alignment justified with 1-inch margins on all sides)

Full Paper Submission

- **Format** Papers must be submitted in English and only in MS Word format.
- The length of the paper should not exceed 12 pages or 5000 words excluding title page, references and plagiarism should be below 20 Percent.
- Abstract should be in single paragraph and should be between 150-200 words with 4-6 keywords and it should follow the first page.
- **Font and size:** Times New Roman – Head 14 Bold, Body 12 (Line spacing 1.5 and alignment justified with 1-inch margins on all sides)
- **Title Page** The first page must include the paper title, author(s), organizational affiliation, complete mailing address, phone number, fax number, and email address. Do not include author names or affiliations elsewhere in the manuscript.
- **Research Focus** The paper must highlight a specific research problem and adhere to appropriate research methodology.
- **Tables and Figures** Follow a standard format, including the source (mandatory) and a footnote (if applicable). All tables, charts, and graphs should be prepared on separate sheets, numbered in Arabic numerals as referred to in the text. The source, where necessary, should be mentioned at the bottom.
- **Note: All Manuscripts MUST be submitted through the registration link only.**



Organising Team



Role (eg., Patron)	Name	Designation, Affiliation
Chief Patron	H.H. Baselios Marthoma Mathews III	Catholicos of the East & Malankara Metropolitan (The Supreme Head of the Malankara Orthodox Syrian Church (Indian Orthodox Church), President of MBC CET
Patron	Metropolitan Zacharia Mar Severios	Metropolitan of Diocese of Idukki, Malankara Orthodox Syrian Church
Chairperson	Dr. Oommen Mammen	Director, MBC CET
General Convener	Dr.V.I George	Principal, MBC CET
Convener	Dr. Ushus Maria	Associate Professor, CSE
	Dr. Shaibu V B	Assistant Professor, ME
	Dr. Sheelu Jones	Assistant Professor, CE

Advisory Board

- **Dr. Henry Aspeqvist**, Former Vice President HR, World Bank. Advisor to the World Bank, Washington DC, USA.
- **Dr. Paula Ann Wards**, Former Dean at School of Folklore, University of Illinois, Urbana- Champaign.
- **Dr. Divya Midhun chakkaravarthy**, Director, Centre of Postgraduate Studies, Lincoln University, Malasiya.
- **Dr. Jolly Jose**, Amity School of Communication Amity University, Noida.
- **Dr. Sharon Wilson**, Universiti Tunku Abdul Rahman, Malaysia-Center for Media and Communication Research (CMCR).
- **Dr. Radhakrishnan R**, Professor and PG Dean, Magalam College of Engineering, Ettumanoor, Kottayam, Kerela.
- **Dr. Mendus Jacob**, CEO and MD of IPSR Group of Concerns, Kottayam. Kerela
- **Mr.Sibi Purayiadam**, State Resource Person , Energy Management Centre Kerala Power Board and BEE.
- **Jacob Bose**, Assistant Professor,School of Management in Hospitality & Tourism Marian College Kuttikkanam (Autonomous), Peermade.
- **Prof. Elias Janson**, Vice-Principal, (Electronics & Communication Engineering Dept), MBC CET, Peermade.
- **Prof. Resmara S**, IQAC coordinator, HOD - Electrical & Electronics Engineering Dept, MBC CET, Peermade.
- **Prof. Manikandan S**, HOD - Mechanical Engineering Dept, MBC CET, Peermade.
- **Prof. Anu Mary Mathew**, HOD - Electronics & Communication Engineering Dept, MBC CET, Peermade.
- **Prof. Annie Chacko**, HOD - Computer Science & Engineering Dept, MBC CET, Peermade
- **Prof. Mintu Sara George**, HOD - Civil Engineering Dept, MBC CET, Peermade
- **Prof. Rengitha M. Thomas**, HOD - Science & Humanities Dept, MBC CET, Peermade
- **Prof. Sneha Priya Sebastian**, Faculty chairperson - Internal, (Electrical & Electronics Engineering Dept), MBC CET, Peermade

REGISTRATION FEE

Nature of participants	INDIAN DELEGATES		FOREIGN DELEGATES	
	Early	Late	Early	Late
Industry/Research Organization	INR 5000	INR 5500	USD 100	USD 110
Academicians/Research Scholars	INR 3000	INR 3500	USD 60	USD 70
PG/UG Students	INR 1000	INR 1500	USD 25	USD 35
Poster presentation	INR 1000	INR 1500	USD 25	USD 35
Academic Attendees	INR 800	INR 1000	USD 20	USD 30

Note: Publication of research articles reputed journals or book chapters can be done with an extra payment

Delegates can remit the registration fee by Bank Transfer to the given link below :



Scan here to

Register Now

Important dates

- Abstract submission starts : 30th September, 2024
- Abstract submission closes : 24th November, 2024
- Acceptance Notification : Within 15 days of abstract submission
- Registration opens : 1st November, 2024
- Registration Closes : 10 December, 2024
- Submission of full manuscript : 15 December, 2024
- Conference Dates : 16 & 17 January 2025

<https://senergy25.mbccet.in/#payments>

Note: After remittance, kindly email the acknowledgment to senergy25@mbcpeermade.com

Registration Process

The participants will have to register individually by filling out an online form through the website and attaching a screen shot of the payment receipt in the space provided . In the case of multiple authors, each author must pay the registration fee and submit the form individually. Publication charges are not included.

Link for Registration and Abstract submission: <https://senergy25.mbccet.in>

For Conference Related Queries

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