



INTERNATIONAL WORKSHOP ON INTELLIGENT ENERGY TRANSITIONS AND FUTURISTIC SOLUTIONS FOR THE GLOBAL SOUTH

7–9 February 2027 | Kochi, Keralam, INDIA



**CENTRE FOR SCIENCE & TECHNOLOGY OF THE NON-ALIGNED
AND OTHER DEVELOPING COUNTRIES (NAM S&T CENTRE)**

New Delhi, INDIA

ENERGY MANAGEMENT CENTRE (EMC)

Keralam, INDIA

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AND OTHER DEVELOPING COUNTRIES
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On

**INTELLIGENT ENERGY TRANSITIONS AND
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Kochi, Keralam, INDIA**

WORKSHOP ANNOUNCEMENT



**Centre for Science & Technology of the
Non-Aligned and Other Developing Countries
(NAM S&T Centre)
New Delhi, INDIA**



**Energy Management Centre
(EMC)
Keralam, INDIA**
State Designated Agency to enforce
Energy Conservation Act, 2001
Department of Power, Government of Keralam
Thiruvananthapuram, Keralam, India – 695017

INTRODUCTION

The global energy landscape is undergoing a profound transformation driven by the urgent need to address climate change, enhance energy security, accelerate economic development and ensure universal access to reliable, affordable and sustainable energy (*SDG 7: Affordable and Clean Energy; SDG 13: Climate Action*). For countries of the Global South, the energy transition presents both significant challenges and unprecedented opportunities. Rapid technological advancement, increasing digitalization, decentralization of energy systems and the emergence of innovative clean-energy technologies are creating new pathways towards resilient, inclusive and low-carbon development (*SDG 9: Industry, Innovation and Infrastructure; SDG 10: Reduced Inequalities*).

An intelligent energy transition goes beyond replacing conventional energy sources with renewable alternatives. It involves the integration of renewable energy, energy efficiency, energy storage, smart grids, digital technologies, artificial intelligence, green hydrogen, electric mobility, advanced energy-management systems and innovative financing mechanisms. These solutions can enable energy systems to become more flexible, efficient, reliable, affordable and responsive to changing patterns of energy production and consumption (*SDG 12: Responsible Consumption and Production*).

Countries in the Global South face distinctive challenges arising from growing populations, rapid urbanization, industrialization, rising energy demand, limited financial resources and climate vulnerability. These require technologically appropriate, economically viable and socially inclusive solutions (*SDG 8: Decent Work and Economic Growth; SDG 11: Sustainable Cities and Communities*). At the same time, many developing countries possess considerable renewable-energy resources and have the opportunity to adopt emerging technologies without being constrained by legacy infrastructure.

The transition towards intelligent and sustainable energy systems therefore requires greater international cooperation, knowledge exchange, capacity building, technology development and innovative policy frameworks (*SDG 17: Partnerships for the Goals*). Particular attention is required to ensure that technological progress contributes not only to decarbonization but also to energy access, employment generation, economic growth and improved quality of life.

In order to deliberate on the above issues, the Centre for Science & Technology of the Non-Aligned and Other Developing Countries (**NAM S&T Centre**), New Delhi, India, in collaboration with the Energy Management Centre (**EMC**), Keralam, India [the State Designated Agency to enforce the Energy Conservation Act 2001, Department of Power, Government of Keralam] is organizing an International Workshop on “**Intelligent Energy Transitions and Futuristic Solutions for the Global South**” during **7-9 February 2027** in **Kochi, Keralam, India**.

OBJECTIVES

This Workshop will provide a collaborative platform for scientists, researchers, policymakers, technology developers, industry representatives and other stakeholders to exchange knowledge and experiences on emerging energy technologies and innovative approaches for accelerating sustainable energy transitions in the Global South.

Emphasis will be placed on practical, scalable and future-ready solutions, while examining how developing countries can leverage technological innovation, indigenous knowledge, regional cooperation and South–South collaboration to develop energy systems suited to their specific socio-economic and environmental conditions.

Through international and regional collaboration, the workshop will seek to identify emerging technologies and policy solutions, facilitate partnerships and strengthen institutional and human capacities for intelligent energy transitions. The exchange of successful experiences, research findings and innovative practices is expected to contribute to the development of resilient, inclusive and sustainable energy pathways for the Global South.

The primary objectives of the Workshop are to:

- ✓ Examine emerging trends and pathways for intelligent energy transitions in the Global South.
- ✓ Explore futuristic technologies and innovative solutions for sustainable, affordable and resilient energy systems.
- ✓ Discuss the role of artificial intelligence, digitalization and smart energy-management systems in transforming energy systems.
- ✓ Examine strategies for integrating renewable energy, energy storage and flexible energy resources.
- ✓ Explore the potential of green hydrogen and other emerging clean-energy technologies.
- ✓ Identify policy, regulatory, institutional and financial mechanisms that can accelerate clean-energy transitions.
- ✓ Discuss technology transfer, indigenous innovation and South–South cooperation for sustainable energy development.
- ✓ Address energy access, affordability, equity and the socio-economic dimensions of the energy transition.

TOPICS TO BE COVERED

- **Intelligent Energy Transitions and Sustainable Energy Systems** – Energy efficiency, renewable energy integration, decentralized energy systems, energy access, affordability and just transitions for the Global South.
- **Digitalization, Artificial Intelligence and Smart Energy Management** – AI, IoT, data-driven energy management, smart grids, demand-side management and intelligent energy systems.
- **Energy Storage, Green Hydrogen and Future Energy Technologies** – Advanced battery and thermal storage, grid-scale storage, green hydrogen, emerging energy carriers and technologies for flexibility, resilience and decarbonization.
- **Clean Mobility, Smart Cities and Sustainable Infrastructure** – Electric mobility, energy-efficient buildings and industries, smart cities, integrated energy systems, sustainable transport and climate-resilient infrastructure.
- **Climate Finance, Carbon Markets and Innovative Business Models** – Green finance, carbon markets, innovative financing mechanisms, investment models, technology commercialization and public–private partnerships for energy transitions.

- **Policy, Innovation, Technology Transfer and South–South Cooperation** – Enabling policy and regulatory frameworks, indigenous innovation, capacity building, technology transfer and scalable solutions for accelerating sustainable energy transitions in the Global South.

EXPECTED OUTCOMES

The expected outcomes include enhanced understanding of emerging energy technologies, identification of scalable and affordable solutions for developing countries, development of policy and technology recommendations, strengthened South–South and international collaboration, and creation of opportunities for future collaborative research, demonstration and capacity-building initiatives.

IMPORTANT DATES

ACTIVITY	DATES
Dates of the Workshop	February 7-9, 2027
Submission of Application Starts	October 16, 2026
Last Date for Submission of Applications along with Abstract of Paper to be Presented	December 15, 2026
Last Date for Submission of Full Manuscript	January 15, 2027

** English will be the official language for the Workshop.*

TENTATIVE PROGRAMME OF THE WORKSHOP

PROGRAMME	SESSION DETAILS		
	February 7, 2027	February 8, 2027	February 9, 2027
09.00 - 10.30 Hrs.	Inaugural Session	Keynote Lectures	Panel Discussion
11.00 - 12.30 Hrs.	Keynote Lectures	Technical Session - III	Concluding Session
13.30 - 15:00 Hrs.	Technical Session - I	Keynote Lectures	
15:30 - 17.00 Hrs.	Technical Session - II	Technical Session - IV	

Note: A detailed Session-wise Programme will be made available before the Workshop.

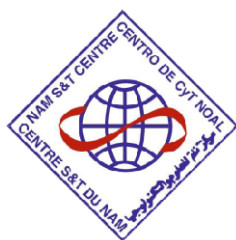
TARGETED PARTICIPANTS

Researchers, scientists, innovators, government officials, policymakers, technology developers, energy professionals, academicians, legal experts and representatives from industry, international and non-government organizations are invited to participate in this Workshop.

Experts and professionals working in energy transition, renewable energy, energy conservation and related areas will find this Workshop particularly beneficial. The diverse mix of attendees from various countries will facilitate the exchange of knowledge, ideas and experiences for global networking and collaboration.

ABOUT THE ORGANISERS

CENTRE FOR SCIENCE AND TECHNOLOGY OF THE NON-ALIGNED AND OTHER DEVELOPING COUNTRIES (NAM S&T CENTRE)



The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre) is an Inter-Governmental Organisation with a Membership of 47 countries spread over Asia, Africa, the Middle East and Latin America. The Centre was set-up in 1989 in New Delhi, India, based on decisions taken during various NAM Summits and is mandated to undertake a variety of programmes, including organization of international workshops, training programmes and training courses and implementation of multilateral collaborative projects. It also offers short-term fellowships programmes to scientists and researchers from developing countries in association with the Centres of Excellence in various countries. The Centre also brings out technical books, monographs and other scientific publications in different S&T subjects of interest to developing countries. The Centre's activities provide opportunities for scientist-to-scientist contact and interactions, familiarizing participants on the latest developments and techniques in the subject areas, identification of the requirements of training and expert assistance, locating technologies for transfer between the non aligned and other developing countries, and dissemination of S&T information etc. In addition, the Centre encourages Academic- R&D-Industry interactions in the developing countries through its “*NAM S&T-Industry Network*”. The Centre is giving special focus on helping the NAM S&T Centre Member Countries in their capacity building to achieve the UN Sustainable Development Goals – 2030. More details about the Centre are available at www.namstct.org.

ENERGY MANAGEMENT CENTRE (EMC)



The Energy Management Centre (EMC), Keralam, India is a leading institution promoting energy efficiency, renewable energy adoption, and sustainable energy practices in India. Established under the Department of Power, Government of Keralam, EMC is dedicated to implementing both state and national policies aimed at enhancing energy conservation efforts.

The Centre is actively involved in research, policy advocacy, and capacity-building programs that support India's energy transition goals. Energy Management Centre – Keralam serves as the State Designated Agency of the Bureau of Energy Efficiency, Ministry of Power, Government of India, responsible for coordinating, regulating, and enforcing the provisions of the Energy Conservation Act, 2001 (Central Act 52 of 2001) in the State of Keralam. EMC also host small hydro power cell for promoting small hydro power and pump storage projects in the State.

SUBMISSION OF APPLICATIONS

Scientists and experts desirous of participating in the Workshop, **except those from India**, should submit their applications **electronically** to the Director General, NAM S&T Centre, New Delhi at namstcentre@gmail.com, as early as possible but latest by **December 15, 2026 (Tuesday)**.

However, **applicants from India** should submit their requests directly to **Mr. Dinesh Kumar AN**, Joint Director, Energy Management Centre, Keralam, India at emck@keralaenergy.gov.in.

Following documents must be submitted as e-mail attachments:

- a) Filled in **Application Form** (Blank form **enclosed**).
- b) An **Opinion** (a short paragraph; **in MS Word format**) on how the applicant qualifies to participate in the Workshop.
- c) A **Short Biography** (to be written in third person) highlighting the current engagement, area of expertise, major achievements, academic qualification and professional experience as succinctly as possible.
- d) An Abstract (**about 300 words, in MS-Word only**) of the Paper that would be presented at the Workshop.
- e) Copy of the **relevant pages of passport**.

Note: The documents (b), (c) and (d) above must be in **MS-Word format only**; **PDF or image files will not be accepted**. Hard copies of the Application Form and the above attachments are NOT REQUIRED to be submitted.

PRESENTATION OF PAPERS

Participants are expected to present a Country Status Report and/or a research/scientific paper on any of the themes appropriate to the Workshop.

LOCAL HOSPITALITY AND TRAVEL

Hospitality including accommodation, meals and local transport/airport transfer will be provided free of cost by the EMC to the foreign participants sponsored by the NAM S&T Centre from **6th February 2027 (noon) to 10th February 2027 (noon)** [i.e. from one day before to one day after the completion of the Workshop]. The participants are requested to book their flights accordingly; otherwise, they will have to make their own arrangements for stay beyond these dates.

FINANCIAL ARRANGEMENTS FOR TRAVEL

The financial terms and arrangements for international travel of foreign participants nominated by the NAM S&T Centre will be conveyed to individual applicants on receipt of the Application Form and other documents.

ENTRY FORMALITIES AND IMMIGRATION

Participants of the Workshop must be in **possession of a current passport** or any other internationally recognized travel document, which must have a **period of validity of at least six months beyond the period of stay in India** and must be endorsed for travel to India.

Participants should have a **valid visa for entry into India**. The Indian diplomatic mission located in the country of the participant should be approached for obtaining an entry visa. However, for a large number of countries, “Visa on Arrival” is applicable.

The organizers will facilitate the issuance of visa by providing the participants with an official letter of invitation. It may be noted that a Conference visa is required to be taken by the foreign participants.

NOTE: *The governments / institutions of the selected participants will be required to bear the following costs:*

- ✓ All expenses in the home country incidental to travel abroad, including expenditure for passports, visa fee, required medical examinations, vaccinations and miscellaneous expenses such as internal travel to the airport of departure in the home country.
- ✓ Salary and other related allowances for the participants during the period of the Workshop.
- ✓ Cost of medical insurance to cover the period of participation in the Workshop.

The organizers of this Workshop will not assume responsibility for the following expenditure in connection with the participant's attendance in the Workshop:

- ✓ Expenses incurred with respect to any insurance, medical bills or hospitalization fees.
- ✓ Compensation in the event of death, disability or illness of participants.
- ✓ Loss of personal belongings or compensation for damage caused to them by climatic or other conditions.
- ✓ Other costs, including airport tax and excess baggage.

OTHER USEFUL INFORMATION

- The temperature in Kochi during the Workshop period is expected to be around 32°C (~90°F) with high heat and humidity.
- Indian Standard Time is **+05.30 hours ahead of GMT**.
- The Indian Currency is Rupee (INR). The present exchange rate is **1 USD ~ 95 INR**.

PUBLICATION OF PAPERS

A publication edited by one or more international experts and based on the papers presented by the participants during the Workshop and also containing papers contributed by other experts in the field will be brought out in the form of a book as a follow-up of this scientific programme. Therefore, all participants are requested to submit the manuscripts of their full papers in **MS-word format** well in advance, latest by **January 15, 2027 (Friday)**.

SELECTION OF APPLICANTS

Selection of applicants will be made based on their academic and professional backgrounds. Successful applicants will be electronically informed about their selection.

SECRETARIAT AND ENQUIRIES

NAM S&T CENTRE

Dr. Amitava Bandopadhyay,
Director General,
Centre for Science and Technology of the Non-Aligned and
Other Developing Countries (NAM S&T Centre),
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Website: <https://www.namstct.org>

ENERGY MANAGEMENT CENTRE (EMC)

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APPLICATION FORM

PLEASE TYPE OR USE BLOCK CAPITALS (NO COLUMN SHOULD BE LEFT BLANK)

SECTION –A

(To be filled in by the Applicant)

PHOTO

1. First Name (Prof. /Dr. /Mr. /Mrs. /Ms.):
Middle Name: Last Name:
(As in Passport)
2. Father's/Spouse Name:
3. Designation (Position held):
4. Nationality:
5. Date of Birth: Place of Birth (City) (Country).....
6. Passport No: Place of issue:
Date of Issue: Valid up to:
(Please attach copies of the relevant pages of your Passport)
7. Name of the Parent Institution (Employer):
Full Address (Office):
.....
Phone: E-mail:

8. Full Address (Home):
.....
Mob:
E-mail:
9. Educational Qualifications: Highest Degree.
Year of Award: University:
Field of Study:
10. Brief Bio - data (CV):
(Maximum two pages, in MSWord)
11. Abstract of your paper proposed to be presented in the Workshop. **(About 300 Words, in MSWord; to be attached on separate sheet)**
12. What in your opinion qualifies you for participation in this Workshop?
(To be attached on separate sheet)
- Date: Signature:

SECTION –B

ENDORSEMENT BY THE NOMINATING AUTHORITY

(Applicants from a Member Country of the NAM S&T Centre and NAM S&T – Industry Network Member must get the Application Form endorsed by the Focal Point of the Centre in their countries/organisations if they wish to take financial benefits extended to the official nominee of the country/organisation. For the list of member countries and names/addresses of the Focal Points please visit the Centre's official website; www.namstct.org.)

Signature:
Name (in full):
Designation:
Date:

Enclosures:

- 1) A Write-up (a short paragraph) on what qualifies the applicant to attend the Workshop.
- 2) A Short Biography (to be written in third person, maximum 1 page; in MS-Word document) highlighting your current engagement(s), area of expertise, major achievements, academic qualification and professional experience as succinctly as possible.
- 3) An Abstract (about 250-300 words; in MS-Word document) of the Paper that is proposed to be presented by the applicant at the International Workshop.
- 4) Copy of the relevant pages of valid passport.
