www.gcdi.in

2nd Global Conference on Decarbonizing India (GCDI '25)

Towards Achieving Net Zero

March 6 - 8, 2025

तमसो मा ज्योतिर्गमय

National Institute of Technology Calicut, Kerala, India

About GCDI

India emits 2.9 Gt of CO_2 annually, accounting for 4.9% of global emissions, making it the third-largest emitter. The major contributing sectors —power, automotive, aviation, steel, cement, and agriculture — are responsible for approximately 70% of India's total emissions. As India's economy continues to grow, careful planning and execution are essential to balance economic development with achieving the net-zero goal by 2070. The Global Conference on Decarbonizing India (GCDI), first successfully conducted in December 2023 at PSG College of Technology, India, provides a platform for diverse stakeholders to address the challenges and explore technological solutions for decarbonization.

About CCECE & CST

The Centre for Clean Energy and Circular Economy (CCECE) is a multi-disciplinary centre in NITC, that aims to converge the activities related to clean energy and circular economy, aligning closely with the related sustainable development goals, national goals and missions of our country.

The Centre for Sustainable Technologies (CST) was established under the National Education Policy of Govt. of India in 2022 with a mission to provide a quality life through emerging technologies for environmental sustainability, waste management, renewable energy systems and water harvesting.

About NITC

National Institute of Technology Calicut (NITC) is an Institution of National importance, fully funded by the Government of India. With a history of 63 years of excellence, NITC proudly stands as one of the premier institutes in the country for technical education, the largest among NITs accommodating approximately 8000 students and 420 faculty members. With a vision to achieve the International Standing of the Highest Calibre, NITC offers 11 undergraduate and 30 postgraduate programs across 15 departments and several interdisciplinary and multi-disciplinary centres. Full-time and part-time doctoral research programs are offered in all the departments.

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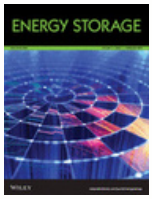
Centre for Clean Energy and Circular Economy (CCECE) &
Centre for Sustainable Technologies (CST)
National Institute of Technology Calicut

Call for papers

GCDI '25 invites faculties, researchers, and industry participants to submit their original research work in the following themes.

Click here for paper Submission:

- **All accepted papers will be published either in Conference Proceedings (Scopus-indexed book volumes) or will be recommended to special issues in reputed journals for publication.**
- **Journal publication 1: Special issue on 'Energy Storage and Efficient Energy Utilization', Journal: Energy Storage (IF: 3.6, WoS/Scopus indexed), Wiley**



GCDI '25 Themes

Energy Transition: Renewable Energy and Generation Systems

Solar Energy
Solar energy for power generation
Solar pumps, desalination and other solar devices

Wind Energy
Wind energy harvesters

Green Hydrogen and Ammonia
Green Hydrogen production
Hydrogen Storage and utilization
Various Hydrogen Carriers

Geothermal Energy
Bioenergy

Carbon Removal: Industrial Decarbonization and Carbon Management

Industrial Decarbonization
Production & Energy efficiency: Steel, Cement, and oil/gas industries,
Composite cement from slag and fly ash
Energy recovery systems and technologies

Carbon Capture and Utilization:
Carbon capture, utilization, and storage
CCU for Climate Change Mitigation
Cost of CO_2 abatement

Data Center Decarbonization

GHG Emissions and Policies:
Reduction of GHG emissions
Emission trading systems

Energy Efficiency and Storage

Power Plant Systems:
Energy efficient design of power plant systems

Energy Storage:
Energy storage systems
Pumped storage power plants
Batteries and their thermal management

Vehicle Efficiency:
Vehicle efficiency improvement
Lower carbon fuels & fuel mix

Heat Pumps for Residential and Industrial Decarbonization

Power-to-X

Policy, Economic Aspects, and Sustainable Practices

Economics and Policy Aspects:
Policy and Economic Aspects of CCU
Economics and efficiency
Carbon tax
Life cycle analysis

Sustainable Transportation
Land and Marine Vehicles, Aviation

Smart Grids & Smart Cities:
Net zero Buildings & Green Buildings

Climate Resilience in Agriculture

Sustainable Practices:
Clean Combustion
Circular economy
Blue economy

Pre-conference workshop

Energy Systems and Modelling (ESM'25)
Hybrid mode, 4 - 5th March 2025
by C-CECE, NIT Calicut

CONCLAVE & EcoVision 2025

Industry & NITC Exhibition
6th March 2025

SAMMELAN

Academia-Industry Interaction
6th March 2025
The Raviz Kadavu, Kozhikode

Important dates

Full-length paper submission:
~~15th January 2025~~ 31st January 2025

Notifying the decision to authors:
~~31st January 2025~~ 10th February 2025

Early Bird Registration:
10th February 2025

Late Registration:
20th February 2025

Last Date to submit Revised Manuscript:
20th February 2025

Registration Fee

Participants from India (in INR)#

Category	Type	Faculty	Industry	Student	Accompanying person
Conference	Early Bird	8850	11800	4720	2950
	Late	10620	14160	5310	3540
Sammelan	Early Bird	2360	5900	1180	1180
	Late	3540	7080	2360	2360
Conclave€	Early Bird	-	2360	-	-
	Late	-	3540	-	-
Workshop	Offline	3540	5900	1770	-
	Online	1770	2950	1180	-

including 18% GST
€ Complementary for conference and workshop registrants

Participants from abroad (in USD)#

Type	Faculty	Industry	Student	Accompanying person
Early Bird	354	472	236	118
Late	472	590	295	118

Click here for registration:

Sponsorship for GCDI '25

Platinum ₹ 5 Lakh*

- Complementary delegates – 5 Nos.
- Company's brochure and leaflet provided in the registration kits
- Playback of a promotional video of 2 min duration
- Company's name and weblink are provided on the conference website
- Featured on stage backdrop, standee and website
- Full-page advertisement in Souvenir/Book of abstracts
- Space for 2 stalls in the exhibition/ conclave
- 1 LED TV unit with stand

Diamond ₹ 3 Lakh*

- Complementary delegates – 3 Nos.
- Playback of a promotional video of 1 min duration
- Company's name and weblink provided on the conference website
- Featured on stage backdrop and website.
- Half page advertisement in Souvenir/Book of abstracts
- Space for 1 stall in the exhibition/ conclave
- 1 LED TV unit with stand

Gold ₹ 2 Lakh*

- Complementary delegates – 2 Nos.
- Company's name and weblink provided on the conference website
- Featured on stage backdrop and website.
- Half page advertisement in Souvenir/Book of abstracts
- Space for 1 stall in the exhibition/ conclave
- 1 LED TV unit with stand

Silver ₹ 1 Lakh*

- Complementary delegates – 1 Nos.
- The company's name is provided on the conference website
- Advertisement in Souvenir/Book of abstracts
- Space for 1 stall in the exhibition/ conclave
- 1 LED TV unit with stand

Exhibition/conclave stall only (Rs. 80,000*)
Facilities:

- Ground area: 3 m × 3 m
- Pedestal fan and adequate lights
- 2 plug points
- 2 Tables and chairs

* Excluding 18% GST
* Complementary Sammelan registration and a one-night stay for delegates at Kappad Beach Resort as per the sponsorship category

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Institute Fellow and Project
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GTI Energy, USA



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Co-Chair
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Dr. Narendran Maniyedath
Co-Chair
Boeing India

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Institute Fellow and Project Development Director
GTI Energy, USA



Prof. Jayanta Kapat
Univ. of Central Florida, USA



Dr. Ranjith Krishna Pai
Senior Director
Climate, Energy and Sustainable Technology (CEST), DST



Prof. P V Aravind
University of Groningen, The Netherlands



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Managing Director
Natural Gas Initiative
Stanford University



Prof. Vikram Vishal
IIT Bombay

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IIT Madras



Prof. M. Ramgopal
IIT Kharagpur



Dr. Sanjay Chopra
Section Manager
GE Aerospace, USA



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Prof. Sarma V. Pisupati
Department of Energy
and Mineral Engineering,
Penn State, USA



Mr. Devtosh Chaturvedi
Head - Power
Distribution Business
GMR Energy

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IIT Tirupati



Prof. Satyanarayanan S
IIT Madras



Dr. A. Subramaniam
Advanced Lead Engineer
GE Aviation, Bangalore



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Managing Director
S.A.P. Automations
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