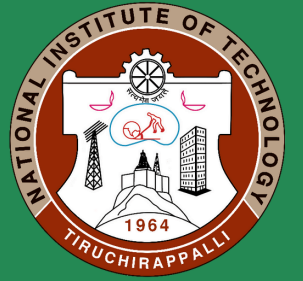


International Conference on Advances in Green, Net-Zero Innovation - Sustainability



AGNI-S 2025
December 10 – 12, 2025
Organized by
Department of Energy and Environment
National Institute of Technology, Tiruchirappalli.



About the Conference

The Advances in Green, Net-Zero Innovation - Sustainability (AGNI-S) conference, organized by the Energy and Environment Department at NIT Trichy, is a platform dedicated to fostering innovation and sustainable development. AGNI-S focuses on advancing research and technologies that support the transition to a green, net-zero future. The conference brings together researchers, industry experts, and policymakers to address critical challenges in energy efficiency, renewable energy systems, carbon neutrality, and environmental sustainability.

Call for Abstract

SUB-THEMES

- Solar Power Innovations
- Low-Carbon Manufacturing and Supply Chains
- Eco-friendly Materials and Biodegradable Alternatives
- Waste-to-Energy and Waste Management Innovations
- Circular Economy Business Models
- Sustainable Packaging Solutions
- Blockchain for Sustainable Supply Chains
- Energy-Efficient Buildings & Retrofitting
- Smart Grids and Decentralized Energy Systems
- Sustainable Urban Mobility
- Green Roofing & Vertical Forests
- Wind Energy Advancements
- Water Management & Conservation Technologies
- Nature-Based Solutions
- Climate Change Adaptation Policies
- Sustainable Agriculture & Regenerative Farming
- AI & Big Data for Climate Monitoring
- Corporate Net-Zero Roadmaps & Sustainability Reporting
- Green Finance & Sustainable Investing
- ESG Regulations & Compliance
- Stakeholder Engagement in Sustainability
- Sustainable Supply Chain Management
- Green Hydrogen and Fuel Cells
- UN Sustainable Development Goals & Climate Agreements
- Green Policy Innovations & Government Incentives
- Carbon Taxation & Emission Regulations
- Green Technology Accelerators for Climate Action
- Green Public Procurement Strategies
- Geothermal and Tidal Energy
- Energy Storage & Battery Technologies
- Carbon Capture, Utilization, and Storage
- Direct Air Capture Technologies
- Carbon Offsetting and Trading Mechanisms
- Industrial-Decarbonization Strategies
- Advanced Biomass Conversion Technologies
- Pre-treatment and densification technologies
- Industrial symbiosis and circular bioeconomy
- Biomass co-firing with coal or other renewables
- Integrated biorefineries for energy, chemicals, and materials
- Algal biofuels and microbial fuel production

About the Department

The Department of Energy and Environment (DEE) at the National Institute of Technology (NIT) Tiruchirappalli, originally established in 1995 as the Centre for Energy and Environmental Science and Technology (CEESAT), focuses on developing sustainable solutions for global energy and environmental challenges. Renamed in 2012, DEE offers an interdisciplinary M.Tech. program in Energy Engineering, which blends principles from energy systems, environmental technologies, and sustainability. The department actively engages in advanced research in areas such as carbon capture using microalgae, solar energy applications, wind energy, energy-efficient building design, and computational fluid dynamics (CFD). DEE's laboratories are ISO 9001:2008 certified and NABL-accredited, enabling both academic research and industrial testing in fields like photovoltaic systems, effluent treatment, and energy system modelling.

PATRON

Prof. G. Aghila
Director, NIT-T

CHAIR PERSON

Prof. M. Premalatha
Department of Energy and Environment
NIT-T
Prof. K. Muthukumar
Head, Department of Energy and Environment
NIT-T

INTERNAL ADVISORY COMMITTEE

Prof. G. Swaminathan
Department of Civil Engineering, NIT-T
Prof. A.K. Bakthavatsalam
HOD, Training & Placement, NIT-T
Prof. S. Suresh, HOD
Department of Mechanical Engineering, NIT-T
Prof. A. Arunagiri
Department of Chemical Engineering, NIT-T
Prof. T. Sivasankar
Department of Chemical Engineering, NIT-T
Prof. P. Raja
Department of Electrical and Electronics
Engineering, NIT-T
Prof. M. Venkata Kirthiga
Department of Electrical and Electronics
Engineering, NIT-T
Prof. R. Gandhimathi
Department of Civil Engineering, NIT-T
Prof. D. Kannamma
Department of Architecture, NIT-T

ORGANIZING SECRETARY

Prof. Aditya Kumar
Department of Energy and Environment
NIT-T
Prof. D V Siva Krishna Rao K
Department of Energy and Environment
NIT-T
Prof. Jaganathan VM
Department of Energy and Environment
NIT-T

**Maximum Two Paper
Presentations are
allowed under one full
Delegate Registration.**

REGISTRATION FEES (INDIAN)

Early Bird (8 - 16 October, 2025)

Academic presenter	Rs. 10,000
Professional presenter	Rs. 8,500
Student presenter	Rs. 7,500
Student participant	Rs. 5000

Regular (23 - 30 October, 2025)

Academic presenter	Rs. 20,000
Professional presenter	Rs. 15,000
Student presenter	Rs. 10,000
Student participant	Rs. 6000

REGISTRATION FEES (FOREIGN)

Early Bird (8 - 16 October, 2025)

Academic presenter	\$ 250
Professional presenter	\$ 225
Student presenter	\$ 175
Student participant	\$ 100

Regular (23 - 30 October, 2025)

Academic presenter	\$ 299
Professional presenter	\$ 265
Student presenter	\$ 222
Student participant	\$ 150

IMPORTANT DATES

15 th September 2025	30 th September 2025	8 - 16 October 2025	23 - 30 October 2025	10 - 12 December 2025
Paper Submission Deadline	Acceptance Notification	Early bird registration and paper submission	Regular registration and paper submission	Conference Date