Global Conference on Decarbonizing India

ENSURING SUSTAINABILITY FOR GENERATIONS

Date :
15 - 16 December 2023

Venue
1st Day : Le Meridien, CBE
2nd Day : PSG College of Technology, CBE

Organised by

Dr T Prabu
PSG College of Technology Coimbatore, India

Dr S Sankaran
Indian Space Research Organization (ISRO), India

Dr Satyanarayanan Seshadri
Head, Energy Centre and Energy Consortium, IIT Madras

Dr Jayanta Kapat
University of Central Florida, USA

Dr G (Subbu) Subbaraman
GTI Energy, USA

About the Conference

India is emitting 2.9 GtCO e (4.9% of global emissions) annually as the third largest emitter with 1.8 tons CO e per capita emission. As the Indian economy is growing, it has to carefully plan and execute its economic growth while achieving its decarbonizing goals. Power, automotive, aviation, steel, cement and agriculture are the major sectors contributing to around 70% of India's overall emissions. It is to be expected that India could get to its net-zero-by-2070 commitment through technology developments over the next decades. As per the recent (2022) McKinsey report, over three-fourths of the industry in the India of 2050 (and 80+ percent of the India of 2070) are yet to be built. If policies are set in place to create the right demand signals within this decade, then the capacities India adds in the two decades thereafter will be low carbon ones. India may need an estimated US$7.2 trillion of green investments until 2050 to decarbonise. The technological advancement on improved capture technologies, newer recycling technologies and ocean-based carbon sequestration will help in achieving net zero potential.

Call for Papers

Participants from academia, R & D organizations and industries are invited to submit original and unpublished full research papers on the following topics, but not limited to :

- Energy efficient design of power plant systems
- Solar Energy for Power Generation
- Offshore Wind Generators
- Energy Storage Systems
- Pumped Storage Power plants
- Smart Grids, Decentralised power grids
- Carbon Tax
- Emission Trading Systems
- Roof top Solar PV Systems
- Carbon Capture Technologies
- Reducing emission intensity of steel and cement production
- Cost of CO_2 abatement
- Energy Efficiency of Steel and cement plants
- Energy recovery systems and technologies
- Use of green hydrogen as fuel, Gas recycling blast furnace and smelting reduction
- Production of composite cement using slag and fly ash
- Carbon capture technologies
- Switching to lower carbon fuels and fuel mix
- Improving Vehicle efficiency
- Electrical Vehicles and Renewable Energy
- Battery Charging
- Public Transport Systems
- Water transport systems
- Bio energy from agriculture waste
- Solar Energy pumps and devices
- Micro irrigation and Automation
- Farm equipments and performance
- Energy transition in the process of reducing GHG emissions to net zero
- Products to store carbon
- Transition from linear to circular economy: Batteries
- Battery recommissioning and disassembly processes
- Electrical vehicles and wind power systems
- Novel solvant systems to recover CRMS from waste
- New green technologies for hydrogen production,
- Hydrogen as an alternative fuel
- Redesign of systems for hydrogen fuel
- Economics and efficiency

Publications

All the extended abstracts presented will be published in proceedings of GCDI-2023 with ISBN number & selected papers will be referred for publication

Sponsorship

Sponsorship of
GCDI-2023 conference is invited

Sponsors

PLATINUM	DIAMOND	GOLD	SILVER
5 Lakhs	3 Lakhs	2 Lakhs	1 Lakh
Complimentary Delegates 10	Complimentary Delegates 6	Complimentary Delegates 4	Complimentary Delegates 2

Organising Committee

Chief Patron

Shri L Gopalakrishnan
Managing Trustee,
PSG Institutions

Patron

Dr K Prakasan
Principal,
PSG College of Technology

Conference Chair

Dr R Rudramoorthy
Director,
PSGCARE

Conference Co-Chairs

Dr G. (Subbu) Subbaraman
Institute Fellow,
GTI Energy, USA

Dr Jayanta Kapat
Professor,
University of Central Florida, USA

Dr S Sankaran
Chief General Manager,
Indian Space Research Organization

Dr Satyanarayanan Seshadri
Head Energy Centre and
Energy Consortium, IIT Madras

Dr P R Thyla
Prof & HoD, Dept. of Mechanical Engineering,
PSG College of Technology

Organizing Secretaries

Dr T Prabu
Professor,
Dept. of Mechanical
Engg., PSGCT

Dr K Mayilsamy
Professor,
Dept. of Mechanical
Engg., PSGCT

Dr P Karthikeyan
Professor,
Dept. of Automobile
Engg., PSGCT

Dr P Viswanathan
Associate Professor,
Dept. of Mechanical
Engg., PSGCT

Dr S Babu
Associate Professor,
Dept. of Mechanical
Engg., PSGCT

Dr R Arun Kumar
Assistant Professor
(Sr.Gr), Dept. of
Mechanical Engg.,
PSGCT

Organising Committee

Advisory Board

Dr. Anil Misra
Former National Project Manager,
UNIDO

Dr Gnana Gandhi
Senior Vice President-Propulsion
(Padma Shri awardee),
Skyroot Aerospace Private Limited

Dr. James P. Seaba
Program Director, Advanced
esearch Projects Agency –
Energy (ARPA-E), U.S. Department of
Energy, Washington, DC 20585, USA

Mr Mariasundaram Antony
Managing Director- AC Systems-
South Asia Region at Grid Solutions,
GE Renewable Energy Bengaluru,
Karnataka, India

Dr. V. Narayanan
Distinguished Scientist & Director,
Indian Space Research Organization

Prof K Ramamurthy
Former Director ISRO
And Professor IIT (Madras)

Srinath Ravichandran
Co-Founder & CEO
Agnikul Space Startup

Dr Sadagopan Srikanth Krishnan,
Senior VP Engines R&D,
Ashok Leyland

Dr. Sanak Mishra
Former Managing Director
Rourkela Steel Plant (RSP)

Dr Senthilarasu Sunduram
Associate Professor; School of
Computing, Engineering and the
Built Environment,
Edinburgh Napier University

Mr. Umesh Satidev
Executive Chairman,
Hydrogenium Resources Pvt. Ltd.,

Dr. Vikram Rao
Executive Director,
Research Triangle Energy
Consortium, Durham,
North Carolina, USA

Registration Fee

	Before 10th Nov 2023	After 10th Nov 2023
Industry	₹ 10000	₹ 12000
Academic Institute	₹ 7500	₹ 9500
Students / Research Scholar for two days	₹ 5000	₹ 7000
*Students / Research Scholar for 16th Dec 2023 alone	₹ 2500	₹ 4000
Add 18% GST to the above fees		

Important Dates

Abstract Submission Opens	July 03, 2023
Registration Opens	September 04, 2023
Early Bird Ends	November 10, 2023
Conference	December 15-16, 2023

PSG CARE
CENTER FOR ACADEMIC RESEARCH & EXCELLENCE

Address for Correspondence

Hostel / Guest House,
Accommodation booking, contact :

R. Shanthamani
Secretary,
PSGCARE
7639644312
secretary@psgcare.org

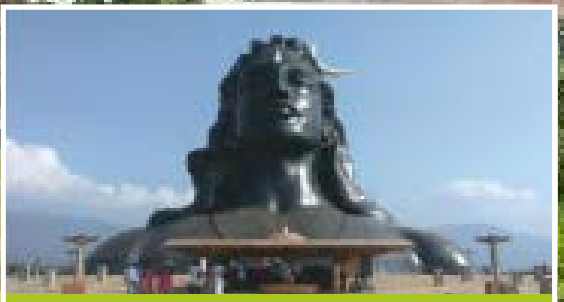
Dr. T. Prabu
Professor, Dept. of Mechanical Engg.,
PSG College of Technology
Coimbatore - 641004, India
gcdi2023@psgtech.ac.in

For more details, psgtech.edu/gcdi2023

Attractions in and around Coimbatore

Perur Temple

Maruthamalai Temple



Aadhi Yogi

Monkey Falls

Kovai Kutralam

Munnar

Ooty

Black Thunder

Top slip

Muthumalai