National Hands-on Training Programme

on

Biogas Technology and its Implementation

(Biogas Generation, Enrichment, Design, Testing, Operation & Maintenance, and Policy & Financing)

14 – 18 DECEMBER, 2026

Jointly Organized by

SARDAR SWARAN SINGH

NATIONAL INSTITUTE OF RENEWABLE ENERGY

(An Autonomous Institution of Ministry of New and Renewable Energy, Govt. of India)

and

Indian Biogas Association

Fertilizing Energy

Indian Biogas Association (IBA)

Gurugram, Haryana

About the Institute (SSS-NIRE)

Sardar Swaran Singh National Institute of Renewable Energy is an autonomous Institution of the Ministry of New and Renewable Energy, Govt. of India. The vision of the Institute is to carry out *state-of-the-art* research and development, demonstration, testing and standardization activities, including human resource development at all levels, post-doctoral research and research for wide promotion of bioenergy in the country. SSS-NIRE is located in the state of Punjab on Jalandhar-Kapurthala Road, 18 km away from Jalandhar city towards Kapurthala. The Institute is located in between Punjab Technical University and Pushpa Gujral Science City. Jalandhar is well connected both by railways and roadways with the nearest airport at Amritsar.

About IBA

Indian Biogas Association, an NPO working towards its vision of propagating biogas in a sustainable way. It is the first nationwide and professional biogas association of operators, manufacturers, and planners of biogas plants, representatives from public policy, science and research in India, and all other stakeholders of biogas ecosystem. In pursuit of its continuous effort to promote biogas in a sustainable manner, IBA endorses and supports several flagship programs of the Government of India, namely The Swachh Bharat Mission, GobarDhan, Sustainable Alternative towards Affordable Transportation (SATAT), and National Bioenergy Program (NBP), and Waste to Energy market, which is in line with various urban development schemes from Government such as Smart City Mission, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana- Urban (PMAY-U), Heritage City Development and Augmentation Yojana (HRIDAY) Solid Waste Management rules and so on.

Background

The Ministry of New and Renewable Energy (MNRE) has been supporting programmes for promoting biogas as a clean fuel for domestic cooking, off-grid and grid power generation and bio-CNG for pipeline grid injection and transport applications. Biogas generation from agriculture waste is also emerging as potential area not only for biogas generation but also as climate change concerns in view of environmental risk due to burning of paddy straw in the farms of Haryana and Punjab states. In addition, recent studies showed algae as 3rd gen biomass feedstock derived through wastewater treatment has the potential to integrate with biogas production. Thus, there is a strong need to take up research and development initiatives for technology development and demonstration to integrate biogas technology for biogas generation and up-gradation for heat and power applications and bio-fertilizer for sustainable energy and agriculture development.

Objectives

The main objective of the national training programme is

- ✓ To create awareness, need and prospects of biogas technology in India.
- ✓ To introduce the importance of biogas and various aspects of biogas plant design, operation and maintenance.
- ✓ To enlightens the various factors for bio-methane enhancements, Consortium development.
- ✓ Integration of algal technology with anaerobic digestion and biogas production.
- ✓ Utilization of enriched bio-methane of bio-CNG quality and standards for off-grid and grid power generation.
- ✓ To familiarize with policy making and financing for industrial projects for biogas production and up-gradation
- ✓ To expose latest technological advancement in context of biogas production, enrichment and bottling.

Organizing Committee

Chairman: Prof. (Dr.) Atul Mohod, Director General, SSS-NIRE

Coordinators: Dr. Sanjeev Mishra, Scientist - D, SSS-NIRE
Dr. A. Senthil Nagappan, Scientist - D, SSS-NIRE
Dr. Vandit Vijay, Scientist - C, SSS-NIRE

Key note lectures

A hands-on training will be provided to the participants about various techniques used for biogas technology, CBG, BioCNG, algae as 3rd gen biomass feedstock. The experts will be invited from R&D/ Academic/ Financing Institutions, Ministries and Industries for delivering lectures in the training programme.

Themes

[1] Supply Chain in Biogas Sector
[2] Biogas Process and Design
[3] Biogas Operation & Maintenance
[4] Biogas Up-gradation and Applications
[5] Carbon Credits in Biogas Sector
[6] Biogas Standardization, Policy & Financing
[7] Skill Development in Biogas Sector
[8] Case studies

Hands-on Training

1) Biomass Characterization
2) BMP Testing
3) Lab-scale biogas production
4) Pilot-scale biogas production
5) Biofuel testing
6) Algae for biogas & biorefinery

Who can participate?

The aim of this programme is to impart training to SNDs/ SNAs/ BDTCs/ KVIC, EPCs and Manufacturers of Biogas/CBG Plants, Purification Systems and other allied components, Gas Engines, Government Officials, PSU Officials, Think tanks, Project Developers, Implementers, Consultants, Researchers & Students, Biogas Aspirants and Start-ups, to various aspects of biogas technology like biogas generation, enrichment, design, Operation & Maintenance, and Policy & Financing to familiarize them with the importance of biogas as a fuel and present status of biogas programme, inter-alia details about how biogas is upgraded to CBG & bioCNG. The programme is also intended for field supervisory functionaries involved in the implementation of biogas programmes.

Interested candidates may fill the form online with the link:
https://docs.google.com/forms/d/e/1FAIpQLSfbTfhKF-WsZFoNnOOB42RZCl2vvHjvNHgDlGC4U1My2gIsOA/viewform?usp=dialog

or visit the website http://nibe.res.in/latest-news.php

Fee

PSU/Industries/Consultants:	INR 12,000 (including 18% GST)
Govt. (State/Central)/Faculty/Startup/NGO:	INR 8,000 (including 18% GST)
Female Participants:	INR 4,000 (Including 18% GST)
Students/ research scholars:	INR 4,000 (Including 18% GST)

(**No. of seats:** 30 only (include 15 no.s for students/ research scholars), based on a first-come, first-served basis)
Reg. fee includes: *Hostel accommodation on a shared basis (subject to availability), meals, and industry visit*

Payment Details

Payment mode: NEFT/ IMPS
Bank: Canara Bank, Jalandhar
A/c Name: Sardar Swaran Singh National Institute
A/c No.: 2945101004798; IFSC Code: CNRB0002390

Important dates

Submission of application starts:	**Nov. 05, 2026**
Registration Ends:	**Nov. 30, 2026**
Date of Training:	**Dec. 14-18, 2026**

Venue

Sardar Swaran Singh National Institute of Renewable Energy, Jalandhar-Kapurthala Road, Wadala Kalan, Kapurthala-144603 (Punjab), India

Contact details

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