

Services by the BDTC, IIT Delhi

- ⇒ Fundamental research & development in the area of anaerobic digestion of various kinds of biomass resources, and biogas upgradation.
- ⇒ HRD programmes of all levels in the biogas sector
- ⇒ Providing technical support and consultancy services for biogas production, upgradation and bottling technologies
- ⇒ Testing and evaluation of biogas and compressed biogas quality, plants etc.
- ⇒ Evaluation of bio-materials for estimation of biogas production potential of alternate feed materials.

BDTC, IIT Delhi provides technical support to state nodal agencies of Uttar Pradesh, Haryana, Uttarakhand and Delhi & NCR

Technologies Developed by IIT Delhi

- ⇒ Water Scrubbing based Biogas Upgradation and Bottling system for Compressed Biogas (CBG) production for vehicular application.
- ⇒ Efficient biogas production from Jatropha and Pongamia de-oiled seed cakes; De-oiled rice bran; Agricultural biomass residues; Kitchen waste biomass etc.
- ⇒ Engine performance evaluation of compressed biogas (CBG) as a transportation fuel.
- ⇒ Rice straw-based biogas plants & power generation.
- ⇒ Technology development for mobile biogas purification and bottling.
- ⇒ Biogas purification and storage of biomethane methane and carbon dioxide through bottling.

BIOGAS DEVELOPMENT & TRAINING CENTRE IIT DELHI



Sponsored By



**Ministry of New and Renewable Energy
Government of India**

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**Centre for Rural Development and Technology
IIT Delhi**



About BDTC, IIT Delhi

IIT Delhi is one of the “Institutes of Eminence” conferred by the Government of India for higher education, academic training, research and development in science and technology in India. The institute is located in Hauz Khas, South Delhi. In 2008 a special BDTC was started in IIT Delhi with the support of Ministry of New and Renewable Energy (MNRE) under National Biogas and Manure Management Program (NBMMP) for research and development in biogas sector, providing technical training and support for quality implementation of various biogas programs engaged in research and development of biogas related technologies.

- ⇒ To provide technical support for the National Biogas Manure Management Program (NBMMP now “NNBOMP”).
- ⇒ To organize training courses and demonstrate new biogas technologies for new and developing enterprises and for staff of state departments and implementing agencies.
- ⇒ To carry out research and development on new scopes of biogas technologies involving biogas upgradation and bottling techniques.
- ⇒ To develop a multidisciplinary network program in the area of biogas technology and to provide consultancy services to manufacturers, NGOs, implementing agencies etc. for developing and testing of new systems



Major Research & Thrust Areas

- ⇒ Promotion of compressed biogas (CBG) in India. The first time the name "CBG" was given by the IIT Delhi. Based on our efforts the Ministry of Petroleum & Natural Gas, Govt. of India has launched a national programme on SATAT-"Sustainable Alternative Towards Affordable Transportation" on 1st October 2018.
- ⇒ Biomass pretreatment and biogas production from alternate feedstock, de-oiled rice bran, kitchen waste, and minor forest tree-based seeds.
- ⇒ Use of wastewater for substitution of freshwater demand in biogas production process, and recycling of digested liquid slurry.
- ⇒ Biogas slurry handling and application machinery, value addition, and efficient slurry management.
- ⇒ Thrust on development of compressed biogas (CBG) operated tractor for sustainable rural energy demand.



**National Workshop on
"स्वदेशी ऊर्जा एवं खाद आत्मनिर्भरता अभियान" organized
at IIT Delhi on 2 July 2026**



Glimpses of trainings conducted at BDTC, IIT Delhi



Vehicle running on compressed biogas (CBG) at IIT Delhi

- CONTACT -

Biogas Development & Training Centre

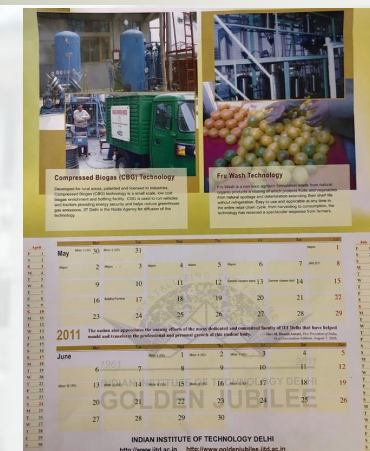
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Other Outreach activities

**IIT Delhi Golden Jubilee Year Calendar
2011 depicting Compressed Biogas
(CBG) Technology**



GOBARDhan

Galvanizing Organic Bio-Agro Resources Dhan: The Cabinet approved GOBARDhan in the first week of August 2026. GOBARDhan, with an outlay of ₹23,731 crore for FY 2026-27 to 2035-36, aims to convert agricultural residues, cattle dung, press mud and organic waste into CBG, clean fuel and organic manure. The scheme seeks to increase CBG production nearly ten-fold through assured demand, stable pricing, infrastructure, financial support and technology development, while promoting private investment, rural income and India's

Compressed Biogas (CBG) Projects Established at Gaushala's

The projects of biogas upgradation and bottling systems have been installed under various field projects, such as at Jaipur, Jodhpur, Nathdwara, Bhilwada Gaushalas, and at Sharada Vihar Jan Kalyan Samiti, Bhopal.



**100 Nm³/day cow dung based compressed biogas (CBG)
plant at Sharda Vihar, Bhopal, Madhya Pradesh**



Compressed biogas Facility at IIT Delhi