

E-CONCLAVE

PROMOTION OF BIOGAS THROUGH SATAT AND GOBARDHAN: ASPIRATION AND ROADMAP FOR NORTHEAST INDIA A SILVER JUBILEE EVENT OF THE DEPARTMENT OF ENERGY, TEZPUR UNIVERSITY, ASSAM (INDIA)



August 30 & 31, 2021

Two Sessions each day Two hours each session Morning Session at 11 am Afternoon Session at 2 pm

> For Registration Scan



Or Click https://forms.gle/1wcCvEwJMNBDrx7r9

Organized by

Department of Energy, Tezpur University; <u>http://www.tezu.ernet.in/dener/</u>

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Sustainable Alternative Towards Affordable Transportation (SATAT): Aspirations
 Galvanizing Organic Bio-Agro Resources Dhan (GOBARDHAN): Roadmap
 Economics of Compressed biogas: Status, Challenges, Skill & Employment
 SATAT & GOBARDHAN: Case study/Success story/Experience sharing
 Feedstock Supply Chain: Uncertainties and Opportunities

Biogas: The only renewable energy option with multifaceted benefits



- Industry personals with experiences of industrial Scale Biogas/CBG/Bio-CNG production
- Government Ministries MNRE, P&NG dealing with SATAT and GOBARDHAN
- Experts from Academic and Research Institutes
- Entrepreneurs from NE regions & Students

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Background/Objectives:

GOBARDHAN (Galvanizing Organic Bio-Agro Resources Dhan) is aimed at ensuring cleanliness in villages and generating wealth and energy by converting cattle dung and solid agricultural waste into biogas, compost, and bio slurry. SATAT (Sustainable Alternative Towards Affordable Transportation) is aimed at setting up of industrial scale Compressed Bio-Gas (CBG) plants and make it available for use in automotive fuel. Both the ambitious schemes were launched by two ministries of Government of India (Petroleum & Natural Gas and Jal Shakti) in 2018. Biogas technology is a prospective circular economy system, which is the need of the hour considering the mandates for Sustainable Development Goals, climate change mitigation and most importantly increasing the self-reliance on domestic energy generation.

An estimation worked out by the Department of Energy (Tezpur University) using geospatial technique, depicts the prospect of setting up of either 1100 nos. of 50 m³ or 20 nos. of 2 TPD Bio-CBG plants based on surplus crop residues available in the Sonitpur district of Assam (India) alone. R&D works of the Department on a variety of locally available surplus biomass feedstocks including crop residues, aquatic plants, and weeds for production of biogas and organic fertilizer are at advanced stage. Department is also engaged to provide digital IT based solutions to some field issues, typical to the application of Biogas technology in this region i.e., Assam, collaborating with Industrial and Academic partners.

Considering the distinct and untapped benefits of biogas technology for gainful utilization of surplus biomass resources, its faster deployment in northeast region of India is desirable addressing the key issues through awareness, technology refinement, resources assessment, favourable policy intervention, capacity building and skilling, and R&D intervention. The Conclave is conceptualized to deliberate the above issues and potential benefits among the key stakeholders, viz., Government, potential users, industries, academic and research organizations. It is expected that, based on the deliberation of the existing status, experiences and challenges, a realistic roadmap could be prepared for growth of biogas technology in northeast India taking the advantages of SATAT and GOBARDHAN aiming much required socio-economic and environmental benefits.

Local Organizing Committee

Patrons: Prof V K Jain, Vice Chancellor, Tezpur University
Prof D K Bharttacharrya, Pro-Vice Chancellor, Tezpur University
Advisors: Prof M K Sarma, Dean, A&A; Prof. N Karak, Dean, R&D;
Prof U K Das, Dean, P&D, Prof. D Deka, Dean, Students Welfare,
Prof P K Das, Dean, School of Humanities & Social Sciences;
Prof P Baruah, Dean, School of Management Sciences;
Prof D Hazarika, Dean, School of Sciences, Tezpur University
Chairman: Prof S K Sinha, Dean, School of Engineering, Tezpur University
Members: Prof R Kataki, Dr S Mahapatra, Dr P K Choudhury, Dr B K Kakati, Dr N Sarmah,
Dr V Verma, Faculty Members, Department of Energy, Tezpur University

National Advisors

Prof. Dr. T. G. Sitharam, Director, Indian Institute of Technology, Guwahati Prof. Goutam Sutradhar, Director, National Institute of Technology, Manipur Prof. Bibhuti Bhusan Biswal, Director, National Institute of Technology, Meghalaya Prof. Pinakeswar Mahanta, Director, National Institute of Technology, Arunachal Pradesh Prof. Sivaji Bandyopadhyay, Director, National Institute of Technology, Silchar Prof. H. K. Sharma, Director, National Institute of Technology, Agartala Prof. Prabha Shankar Shukla, Vice-Chancellor, North-Eastern Hill University, Shillong Prof. Dilip Chandra Nath, Vice Chancellor, Assam University, Silchar Dr. B C Deka, Vice Chancellor, AAU, Jorhat Prof. Bhabesh Ch. Goswami, Vice Chancellor, Cotton University, Guwahati Prof. Pardeshi Lal, Vice-Chancellor, Nagaland University, Nagaland Prof. Ganga Prasad Prasain, Vice Chancellor, Tripura University, Tripura Prof. N Lokendra Singh, Vice-Chancellor, Manipur University, Imphal Prof. L. K. Nath, Vice Chancellor i/c, Dibrugarh University, Dibrugarh Prof. Pratap Jyoti Handigue, Vice Chancellor, Gauhati University, Guwahati Prof. K.R.S. Sambasiva Rao, Vice Chancellor, Mizoram University, Mizoram Dr G. Narahari Sastry, Director, CSIR-NEIST, Jorhat-785006, Assam Prof. H. S. Yadav, Director, North Eastern Regional Institute of Science and Technology, Arunachal Pradesh Dr. Anupam Mishra, Vice-Chancellor, Central Agricultural University, Imphal Dr. Pradip Kumar Bora, Director, NERIWALM, Tezpur Dr. Dev Vrat Kamboj, Director, DRL, Tezpur Dr A R Shukla, Founder Chairman, Indian Biogas Association, New Delhi Prof V K Vijay, Professor and Biogas Expert, IIT, Delhi Mr. Sunil Rajagopal, IOCL Er Akshay Asija, Biocity, Chandigarh Er Abhishek Handa, Source Facility, Chandigarh

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