



## Organic Waste Streams for Industrial Renewable Energy Applications in India

A GEF-MNRE-UNIDO Project

Launches its **Financial Scheme** and **GIS Waste Mapping tool**  
In the virtual event on **August 10<sup>th</sup>, 2021. 16:00-18:00 IST**

Listen to valuable insights by Key –Speakers on the occasion



**Shri Dinesh Dayanand Jagdale**  
Joint Secretary, Ministry of New  
and Renewable Energy



**Dr René Van Berkel**  
UNIDO Representative



**Shri Pradip Kumar Das**  
CMD, IREDA



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GOVERNMENT OF INDIA  
MINISTRY OF NEW  
AND RENEWABLE ENERGY



# Organic Waste Streams for Industrial Renewable Energy Applications in India

A GEF-MNRE-UNIDO Project

Launch of Financial Support Scheme and GIS waste mapping tool  
In the event on

## Waste-to-Energy through Bio-Methanation Making Innovations and Business Model work

Virtually on 10 August 2021

16:00-18:00 IST



FUND MANAGER





The United Nations Industrial Development Organization (UNIDO) and the Ministry of New and Renewable Energy (MNRE), Government of India (GOI) are jointly implementing the Global Environment Facility (GEF) funded project – Organic Waste Streams for Industrial Renewable Energy Applications in India. The project aims to promote investment in renewable energy technologies by transforming the market for using urban and industrial organic waste for MSME industrial energy applications in India. It therefore focuses on demonstration and scale-up of innovative Industrial Organic Waste-to-Energy (IOWtE) biomethanation technologies and business models and thereby contribute to environmentally sound waste management in India.

The industrial organic waste-to-energy bio-methanation projects are generally capital intensive and financially sensitive to both operating costs, including waste availability, and revenue, particularly biogas yield and its utilization scenario. The innovations in such projects to improve overall energy output thereby minimizing the cost of energy generation may lead to an increase in the initial project cost at establishment yet increase revenue and reduce operating costs over project's lifetime. In this virtual webinar the GEF-MNRE-UNIDO will officially launch **the loan interest subvention scheme** that provides financial assistance to beneficiaries to reduce the financial burden of loan interest faced in the demonstration and scale up of innovative waste to energy biomethanation projects and business models.

The webinar will also present **the GIS based inventory tool of organic waste streams** developed under the GEF-MNRE-UNIDO project. This provides district level estimates of available urban and industrial organic wastes and their energy generation potential across India. The GIS tool will enable SME's and project developers to set up new waste to energy projects and may facilitate the rapid growth of biomethanation in waste-to-energy sector in the country. The webinar will showcase few success stories of biomethanation projects in India and panel discussion including experiences of the potential key enablers of innovations in biomethanation waste-to-energy sector such as technology, business models, policies and regulatory framework and project financing to foster SME's contribution in the sector in India.

The panel discussion on 'Innovations in biomethanation technology and business models – Key potential accelerator of waste-to-energy sector growth in India' in the webinar will bring together bioenergy experts to answer questions such as:

1. How innovations in the technology and business models of biomethanation waste-to-energy projects will enable increasing contribution of renewable energy in the energy portfolio of the country.
2. What are the challenges faced by the SME's and projects developers in adopting innovations in biomethanation waste-to-energy projects?
3. How the new GIS waste mapping tool developed under the project will help the government and SMEs to scale up waste-to-energy projects?
4. How the government of India can play instrumental role in the promotion of innovative biomethanation technologies and business models through the innovative policies and regulatory framework?
5. How the financing institutions/banks may extend financial support to promote innovations in the waste-to-energy sectors and challenges being faced to do so?



## AGENDA

Time (IST)	Topic
4:00-4:05p.m.	Welcome Address by Dr René Van Berkel UNIDO Representative, Regional Office in India
4:05-4:10p.m.	Opening Remarks and Launch of <ul style="list-style-type: none"><li>• Financial Support Scheme</li><li>• GIS tool for mapping organic waste availability</li></ul> by Mr Dinesh Dayanand Jagdale Joint Secretary, Ministry of New & Renewable Energy
4:10-4:15p.m.	Keynotes by Mr Pradip Kumar Das Chairman & Managing Director, IREDA
4:15-4:25p.m.	Presentation on Loan Interest Subvention for the demonstration of innovative biomethanation technologies and business models by Mr Nikhil Khot National Technical Expert, UNIDO
4:25-4:40p.m.	Explaining the GIS tool to map organic waste availability and energy generation potential. By Ms Lalita Pant Joshi. Associate Director, Arcadis India Pvt Ltd.
4:40-4:50p.m.	Q & A
4:50-5:20p.m.	Successful case studies – Presentations. <ul style="list-style-type: none"><li>• CEID Consultants and Engineering Pvt Ltd</li><li>• Mailhem IKOS Environment Pvt. Ltd.</li><li>• Urja Bio System Pvt Ltd.</li></ul>
5:20-5:40p.m.	Moderated panel discussion on <u>Innovations in biomethanation technology and business models – Key potential accelerator of waste-to-energy sector growth in India</u> Moderator – Mr Gaurav Kedia, Chairman, Indian Biogas Association Panellist <ul style="list-style-type: none"><li>• Mr Chintan Shah, Director Technical, IREDA</li><li>• Dr Nitant Mate, Partner, SeeGreen Solutions LLP</li><li>• Dr.A.Gangagni Rao, Chief Scientist (CSIR-IICT) &amp; Professor in Engineering Sciences (AcSIR)</li><li>• Srinivas Kasulla, Director, Arka Brenstech Private Limited</li><li>• Himadeep Nallavadla, CEO, Halo Energie Pvt Ltd.</li></ul>
5:40-5:55p.m.	Q&A
5:55- 6:00p.m.	Closing remarks and vote of thanks by Ms Katarina Barunica Industrial Development Officer, UNIDO Vienna