



## **IYRP 2026 Pastoral Bio-Economy Awareness Initiative – 2**

**One Day Awareness Program on**

# **Bio-Degradable Waste to Bio-CNG (Cow Dung Based): Sustainable Startup Opportunities**

**Jointly Organized by**

**GoPals & Thozhuvam FPCL**

24 May 2026, 10:00 AM – 4:00 PM

Venue: MABIF Hall, Agricultural College and Research Institute, Madurai

### **CONCEPT NOTE**

Pastoral and rural farming communities generate substantial quantities of cattle dung and biodegradable organic waste every day. While these resources hold immense potential for renewable energy generation and sustainable rural development, a significant portion remains underutilized or improperly managed, resulting in environmental and economic challenges.

Bio-CNG technology provides an innovative and sustainable solution by converting cow dung and biodegradable waste into clean and renewable compressed biogas. This approach supports waste-to-energy systems, promotes circular economy practices, reduces greenhouse gas emissions, and creates opportunities for rural entrepreneurship and green livelihoods.

Recognizing the importance of pastoral bio-economy systems and sustainable energy transitions, GoPals and Thozhuvam FPCL are jointly organizing a One Day Awareness Program on “Bio-Degradable Waste to Bio-CNG (Cow Dung Based): Sustainable Startup Opportunities” as part of the IYRP 2026 Pastoral Bio-Economy Awareness Initiative.

The program aims to bring together farmers, rural youth, students, startups, entrepreneurs, researchers, and development practitioners to explore opportunities in Bio-CNG production, biogas technologies, circular economy models, and government-supported renewable energy initiatives.

### **Need for the Program**

India possesses one of the world’s largest livestock populations, producing enormous quantities of cattle dung and agricultural organic residues. Despite this abundance, the utilization of these resources for renewable energy production remains limited in many regions.

At the same time, rural communities face multiple challenges including rising energy costs, waste disposal issues, environmental degradation, and limited livelihood opportunities. Sustainable Bio-CNG production can address these challenges by transforming waste into valuable energy resources and income-generating enterprises.

There is a growing need to:

- Promote awareness on scientific utilization of cow dung and bio-waste.
- Encourage rural entrepreneurship in the renewable energy sector.
- Demonstrate practical and scalable Bio-CNG technologies.
- Support climate-resilient and circular economy approaches.
- Facilitate access to government schemes and financial support mechanisms.

This awareness program is designed to bridge the knowledge gap between technology providers, field practitioners, policymakers, and potential entrepreneurs.

## **Objectives**

The major objectives of the program are:

- To create awareness on converting cow dung and biodegradable waste into Bio-CNG.
- To promote sustainable startup opportunities in the waste-to-energy and renewable energy sectors.
- To share practical experiences and field-level insights in biogas and Bio-CNG production systems.
- To provide technical understanding of gas purification and upgrading technologies.
- To introduce government schemes, subsidies, and financial support initiatives including MNRE and GOBAR-DHAN programs.
- To encourage circular economy and sustainable pastoral bio-economy practices.
- To motivate youth, farmers, and entrepreneurs to adopt Bio-CNG-based livelihood models.

## **Key Focus Areas**

The awareness program will include expert sessions and discussions on:

- Bio-CNG as a Startup Opportunity: Business Models & Field Insights
- Biogas Digester using Pastoral Cow Dung: Field Experience & Practical Insights
- Gas Purification & Upgrading Technologies for Bio-CNG Production
- Government Schemes & Financial Support for Bio-CNG Projects
- Circular Economy & Sustainable Rural Entrepreneurship

## **Target Participants**

The program is intended for:

- Farmers and livestock rearers, Rural youth and students
- Entrepreneurs and startups, Farmer Producer Organizations (FPOs)
- NGOs and development practitioners, Renewable energy professionals
- Researchers and academicians
- Stakeholders working in pastoral and bio-economy sectors

## **Expected Outcomes**

The program is expected to:

- Improve awareness about Bio-CNG and renewable waste-to-energy technologies.
- Encourage sustainable entrepreneurship and startup development in rural areas.
- Promote adoption of clean energy solutions among pastoral and farming communities.
- Strengthen understanding of circular economy approaches and sustainable waste management.
- Facilitate networking and collaboration among institutions, startups, experts, and community stakeholders.
- Support the broader objectives of IYRP 2026 in promoting sustainable pastoral livelihoods and bio-economy initiatives.

## **Coordinators**

**Dr. P. Kabilan**, Pastoral Bio Economist, Thozhuvam FPCL

M: 98944 06111 Mail: info@thozhuvam.org

**Mr. Ramprakash**, GoPals, Tamil Nadu

M: 94440 22190 Mail: info@wegopals.com



INTERNATIONAL YEAR OF  
**RANGELANDS AND  
PASTORALISTS**  
2026

ONE DAY AWARENESS PROGRAM ON

# BIO-DEGRADABLE WASTE TO BIO-CNG (COW DUNG BASED): SUSTAINABLE STARTUP OPPORTUNITIES



IYRP 2026 Pastoral Bio-Economy Awareness Initiative - 2

**DATE**  
24/May/2026  
(Sunday)

**TIME**  
10:00 AM  
to 4:00 PM

**VENUE**  
MABIF Hall,  
Agricultural College and  
Research Institute,  
Madurai.

### ABOUT THE EVENT

The One Day Awareness Program on "Bio-Degradable Waste to Bio-CNG" (Cow Dung Based): Sustainable Startup Opportunities" aims to promote the conversion of cow dung and other bio-waste into clean and renewable Bio-CNG. The program will provide insights into biogas production, gas purification, and upgrading technologies, along with real-world field experiences.

Expert sessions will highlight startup opportunities, business models, and practical aspects of establishing Bio-CNG units. Participants will also gain awareness about government schemes and financial support, including initiatives of MNRE under the GOBAR-DHAN program.

This program is designed to encourage farmers, rural youth, and entrepreneurs to adopt sustainable waste-to-energy solutions and explore Bio-CNG as a viable income-generating opportunity.



### WHY BIO-CNG?

- Clean, Renewable & Environment Friendly
- Low Cost & High Economic Potential
- Supports Rural Development & Energy Self-Sufficiency
- Promotes Circular Economy & Waste Management

### EXPERTS' OUTCOME ON THE TOPICS

- Bio-CNG as a Startup Opportunity: Business Models & Field Insights
- Biogas Digester using Pastoral Cow Dung: Field Experience & Practical Insights
- Gas Purification & Upgrading Technologies for Bio-CNG Production
- Government Schemes & Financial Support for Bio-CNG Projects
- Circular Economy

### WHO CAN PARTICIPATE?

- Farmers & FPOs
- Rural Youth & Students
- Entrepreneurs & Startups
- NGOs & Field Functionaries
- Agri & Energy Professionals

### REGISTRATION DETAILS

**REGISTER NOW!** →



### REGISTER NOW

<https://tinyurl.com/biocng26>

### CONTACT

98944 06111  
94440 22190

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