



# Bio Gas In India

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# Advantages of Biogas Production

Biogas can offer a multi-pronged solution to India acting as a catalyst to other industries, driving wider economic growth

Socio-Economic Empowerment



Energy Security



Import Substitution



Affordable



Environment Friendly & Sustainable



Safe and Convenient



# Biogas Sources in India

## Approx. CBG Potential

Cattle Dung & Chicken Litter

18 MMT

Forest Residue

8 MMT

Agriculture Residue

12 MMT

Press Mud, Spent Wash & Baggasse

8 MMT

Municipal Solid Waste

2 MMT

Prospective energy crops in Barren, Waste & Single Crop Land

12 MMT

Total Approx. CBG Potential : 60 MMT

# Biogas Policy Intervention in India

First Standard on Biogas (IS 16087: 2013)

2013

Inclusion of CBG as Transport Fuel

Jun 2015

First revision on Biogas Standard (IS 16087: 2016)

May 2016

National Biofuel Policy

Jun 2018

SATAT

Oct 2018

Priority Sector Lending – Reserve Bank of India

Sep 2020

Fermented Organic Manure - FCO

Jul 2020

Injection of Biogas in Natural Gas Grid

Apr 2021

Liquid Fermented Organic Manure - FCO

Jun 2021

# SATAT PROGRAMME

Sustainable Alternative Towards Affordable Transportation (SATAT) was launched on 01.10.2018



5000 CBG  
Plants by 2023



15 MMT of CBG



50 MMT of Bio-Manure

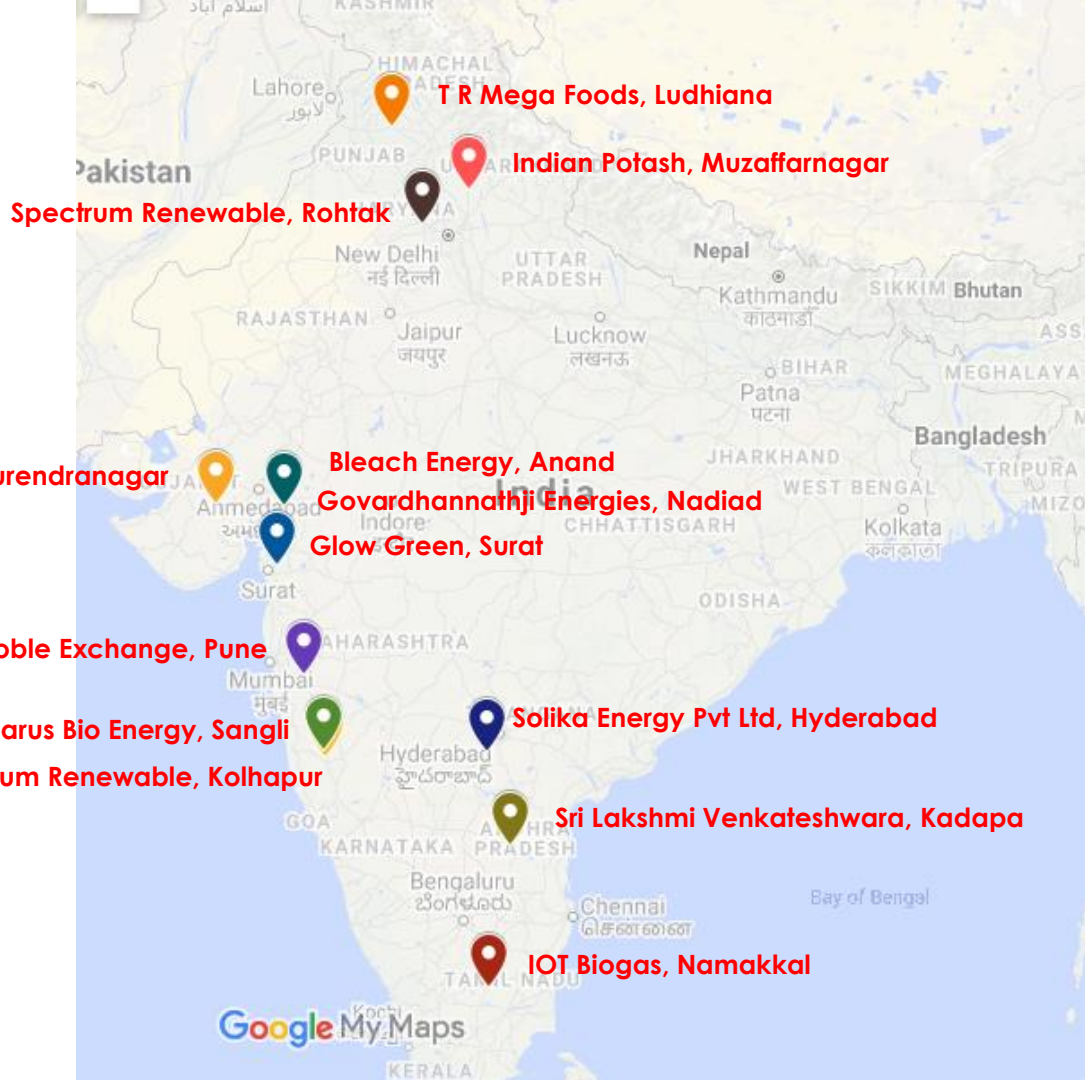
**CBG Plants to be set up by Entrepreneurs and off take by Oil & Gas Companies (IndianOil, BPCL, HPCL, GAIL & IGL)**

**1501 Letter of Intents on CBG awarded by IndianOil for 3.5 MMTPA capacity**

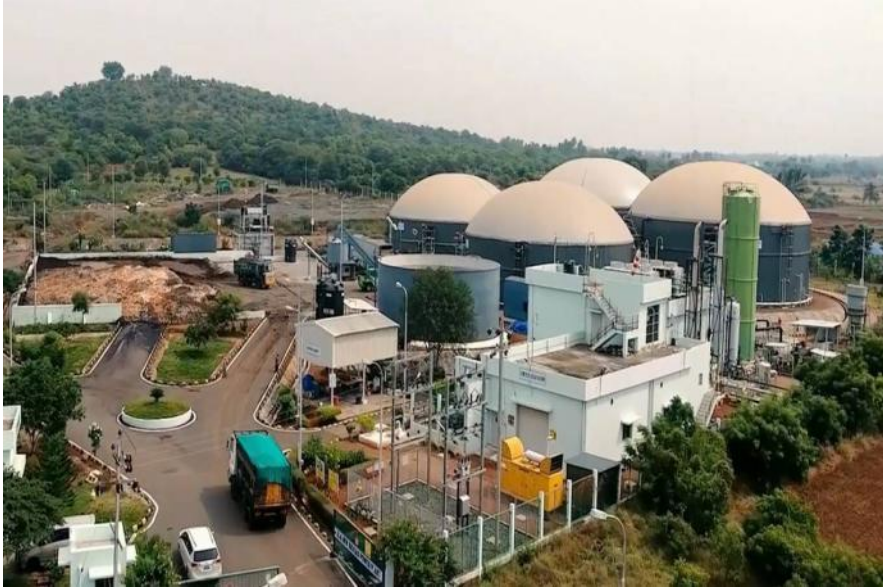


# CBG Marketing

**CBG sales of 13 CBG Plants initiated from 23 Retail Outlets + 2 Industrial Customers + 1 CGD injection points**



## CBG PLANTS



IOT Biogas, Namakkal, Tamil Nadu



# VERBIO – ASIA'S LARGEST CBG PLANT



# Challenges

Aggregation of feedstock

Low cost finance to Entrepreneurs

Availability of Equipment

Proven Technology



THANKS!