
SOLUTION
Buggy
CONNECT • INTERFACE • TEAMUP

Introduction

"SolutionBuggy is INDIA's Largest and Exclusive Platform for Manufacturing Industries to MENTOR-CONNECT- EXECUTE Industrial Projects with our vast network of curated and experienced 12,000 + expert consultants and qualified product suppliers".

We work with you to address your critical business priorities.

Our goal is to enable the manufacturing sector access the right resources and expertise at the right time. Our innovative platform with its advanced AI helps industries and consultants to collaborate and work on projects.

3500+ Projects

12000+ Expert Consultants to Assist

Advantage - SB

01 SB Mentoring

A special initiative taken by SolutionBuggy and Indian Manufacturing Industries Association (IMIA) with leading industry veterans & startup mentors to handhold and help Entrepreneurs in to SET-UP Successful Manufacturing Businesses.

02 Project Execution

"One Stop-Single Window" solution to complex and critical projects Project Management by professionals (Reporting, timelines, quality, delta analysis etc). Multiple skill profile management ensuring Quality- Cost-Delivery.

03 Industry Funding And Government schemes

Assist companies in getting funded through special grants, loans based on collaterals, hypothecation and government subsidies from banks, NBFCs, Private equity and venture capital firms as equity, debt syndication, working capital requirements, bill discounting and LCs.

Our Core Team

SolutionBuggy was started with a view to bridge the gap between entrepreneurs and consultants. We at Solution Buggy believe in creating an ecosystem to strengthen MSME manufacturing sector. We have over 12000 consultants associated with us having an experience of over 25 years in each vertical of their expertise offering an APT solution to our client.

Our Core Team

- **Arjun N (Founder & CEO) -** Over 12 years of experience in manufacturing.
- **Guruprasad B (Director) -** IIMB alumnus and over 18 years of experience in consulting and startups.
- **D S Mehra (Project- Director)** – Ex. Associate Vice President Spark Minda Group with over 35+ years of experience.

Introduction To Biofuels

ofuels are renewable energy sources derived from organic materials, such as

- Plants,
- Crops &
- Organic waste

nlike conventional fossil fuels, biofuels also offer different advantages cluding,

- Lower carbon emissions,
- Reduced dependence on fossil fuels, &
- Potential for economic growth.

Biofuel Market Size

a is set to overtake Europe in terms of biofuels
duction by 2026 according to the report by
ernational Energy Agency (IEA).

ile annual global demand for biofuels is set to
w by 29% from 2022 levels by 2026, reaching
billion liters.

a is seen to account for almost 30% of new
duction over the forecast period.

Different Types of Biofuel

- Ethanol
- Biogas (CBG)
- Green Hydrogen
- Biodiesel

Introduction To Ethanol

Ethanol is a type of biofuel commonly produced from crops like corn, sugarcane, and cellulosic biomass.

The production process involves fermentation, where the sugars from these feedstocks are converted into ethanol, followed by distillation to obtain a high-purity product.

Exciting Growth Statistics of Ethanol Industry

ia is set to become the third-largest market for ethanol in the world after th
d Brazil by 2026.

2021, India produced around 4.2 billion liters of ethanol.

e government of India has set a target to achieve 20% ethanol blending with
trol by 2025, which is driving the growth in ethanol production.

e government's target of achieving 20% ethanol blending with Petrol by 2025
uld require an estimated 7.2 billion liters of ethanol annually.

Govt. Impetus for the Ethanol Industry

as recently increased the purchase price upto Rs.60.29/litre for Ethanol made from broken rice and Rs.65.6
from sugarcane juice.

G Ethanol plant in Panipat has been operational for a year now.

as MP, Assam and Bihar have additional incentives such as Rs.1.5/litre extra subsidy, Rs.5cr capital subsidy

explore other raw materials such as bamboo, jaggery, sea algae etc are being considered as alternatives

ED95 has also progressed rapidly and high chances of running a few modified vehicles as Test runs by Dec 20

s such as bagasse and Pressmud are being promoted as raw material for CBG production, which will improve
Sugarcane based units

What ails the Ethanol Industry today....

istent supply of raw materials. Currently broken rice and corn from FCI is not enough to meet the demands ed grain based Ethanol plants

ment of water for processing, almost 8l of water per 1l of Ethanol. This is high considering most of these pl gions. Sugarcane based ethanol plants are highly water intensive

cal issues as there is a backlash that “Food grains” are being used to produce “fuel”. FCI stopped rice supp ed Ethanol units in August 2023

and Hydrogen as a fuel cell has also shifted the focus from EBP to these technologies to reduce pollution

nt of by products such as DDGS disposal has to be looked at as there is no buyer guarantee for such high DGS

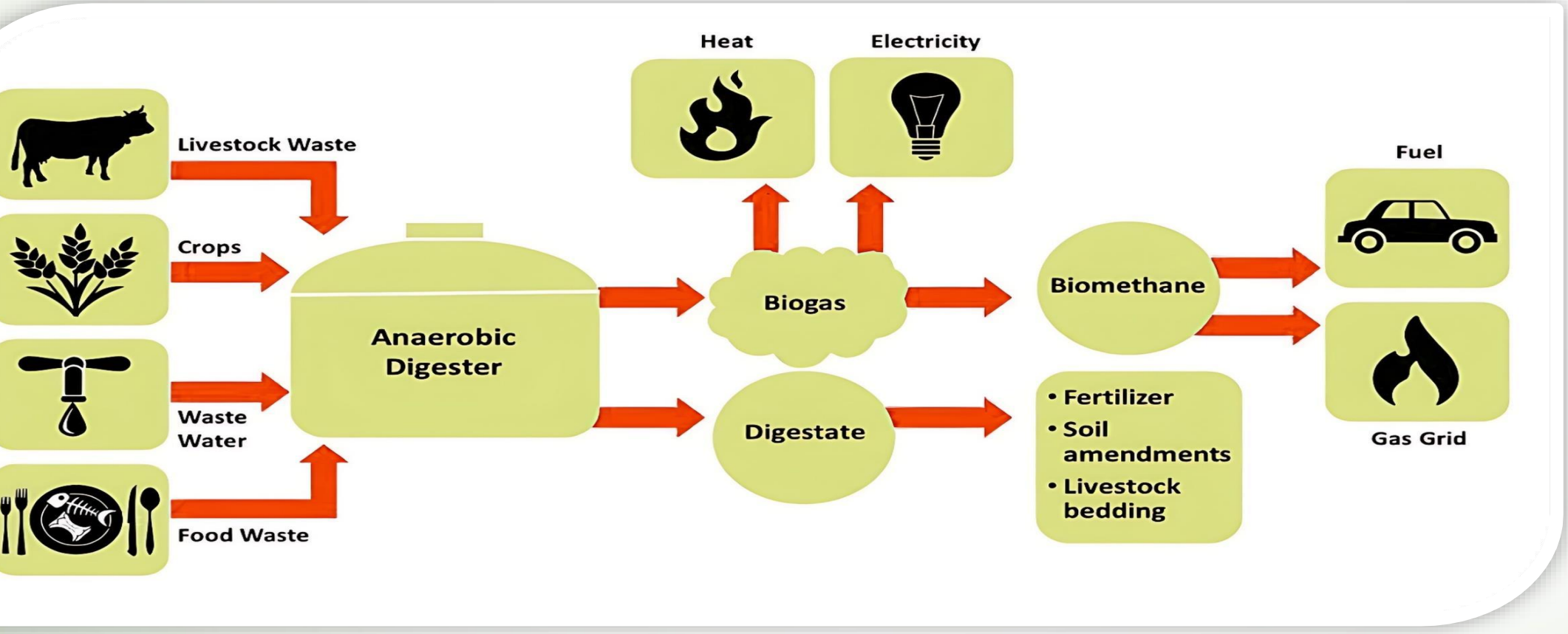
n program for EBP policy is very difficult to attain as most banks are approving loans only to an extent of 60 entrepreneurs

Overview of Biogas

Biogas is a renewable energy source produced through the anaerobic digestion of organic waste, agricultural residues and energy crops.

This process involves the breakdown of organic matter by bacteria in the absence of oxygen, resulting in the production of biogas.

Generation & Utilization of Bio Gas:



Interesting Facts on Biogas Industry

e second-largest biogas producer in the world, accounting for approximately 10% of gas production.

oduction in India has been growing steadily, reaching 5.9 billion cubic metres in

s plants installed in India have a total installed capacity of over 7,600 megawatts f 2022.

oduction in India has the potential to replace about 25% of the country's current as consumption.

ass is the most efficient raw material with highest bio gas yields per ton of raw

0 individuals issued for plants ranging from 2TPD to 50TPD of CBG production

What ails the CBG Industry today....

floated in 2018, but the policy has had very less takers until 2023

cy in the raw materials supply. Based on the raw materials, yield of biogas and hence CBG varies entrepreneur has no control over the raw materials.

nd required for growing Napier grass, almost 80acres for just 2-3TPD plant, hence difficult to setup in Tier pier grass is used as RM

s to be located within 25kms to the production plant, hence should be setup in areas where CBG demand

which is part of City gas distribution network can be another avenue to off take the CBG but right now work is still small

are not forthcoming to sanction loans without high collateral which is a hindrance to new entrepreneurs

Green Hydrogen

Green hydrogen is produced through electrolysis, a process that uses renewable energy sources such as solar and wind power to split water molecules into hydrogen and oxygen.

Green hydrogen has various applications, including transportation, power generation and industrial processes.

Market Size of Green Hydrogen

ogen production capacity in India is projected to reach 4 gigawatts (GW) by 2026, o the Ministry of New and Renewable Energy.

to produce 1 kilogram of green hydrogen at a cost of $2.8 per kilogram by 2023, and uce it to $2 per kilogram by 2027, according to the Indian government's National Mission.

n hydrogen market is projected to grow at a CAGR of over 45% between 2021 and 2026, o a report by Mordor Intelligence.

Biodiesel

diesel is a biofuel produced from vegetable oils, animal fats, and even algae

e production process involves a chemical reaction called transe-sterification,
oils or fats are converted into biodiesel.

Know More About Biodiesel Industry

odiesel market size reached US$ 383.4 Million in 2022.

ard, IMARC Group expects the market to reach US$ 643.0 Million by 2028, exhibiting a CA
ng 2023-2028.

odiesel helps reduce carbon emissions by around 60-80% compared to conventional diese
o India's efforts to combat climate change.

f the world's largest biodiesel producers. In 2021, it accounted for approx 7% of the global
duction, making it the fourth-largest producer after the United States, Brazil, and Germany.

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Thank You

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