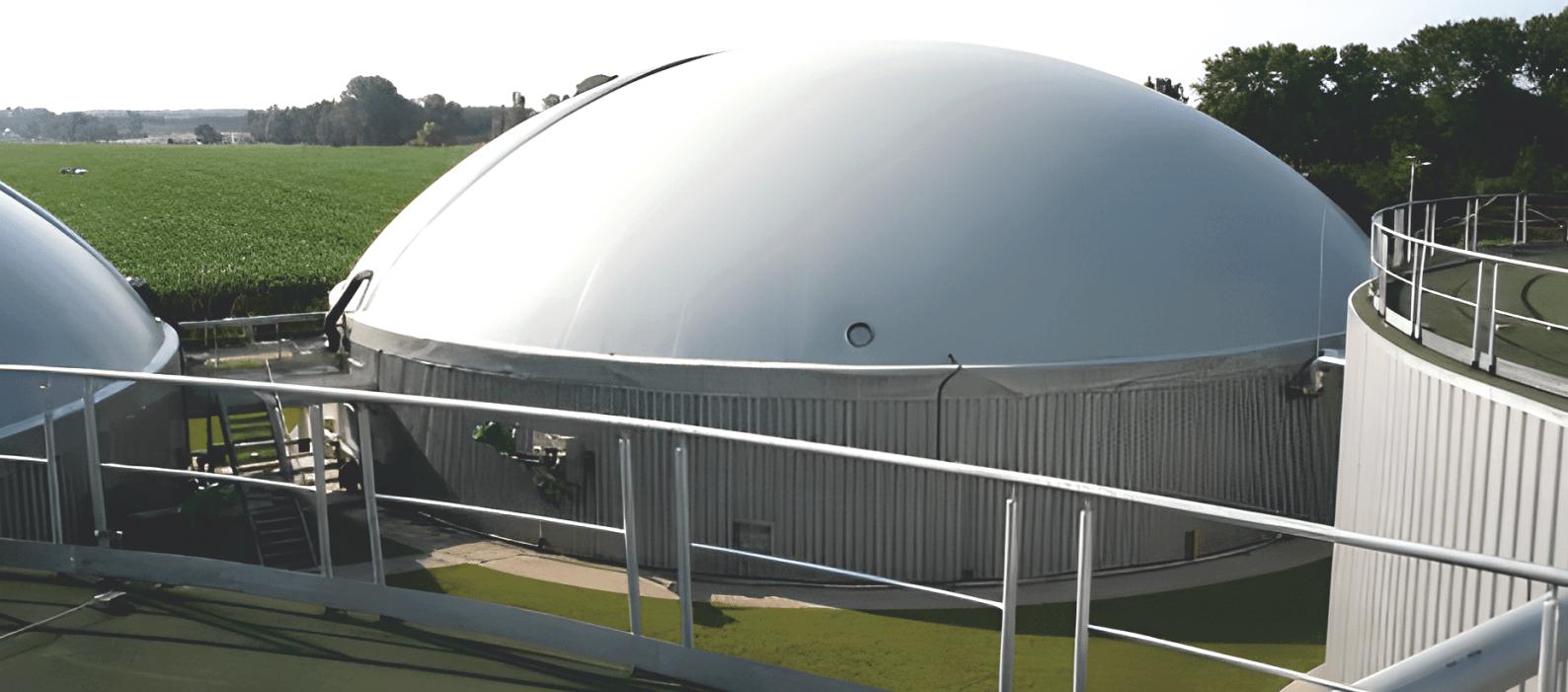




SHRIJEE BIOGAS



GERMAN TECHNOLOGY MADE FOR INDIA



**Revolutionizing Organic Waste to
Biogas through CSTR based Semi Dry Fermentation
Process/High Load Reactors (HLR) for Biogas Generation**

SHRIJEE GROUP

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Shrijee Group

Shrijee, established in 1976, specializes in turnkey solutions for Raw Sugar Mills and Sugar Refineries. Headquartered in Mumbai, India, we operate four manufacturing facilities. In partnership with JF Biogas, we provide EPC-based biogas and CBG plant solutions, leveraging 40+ years of global expertise and advanced German technology for power generation and BioCNG production.

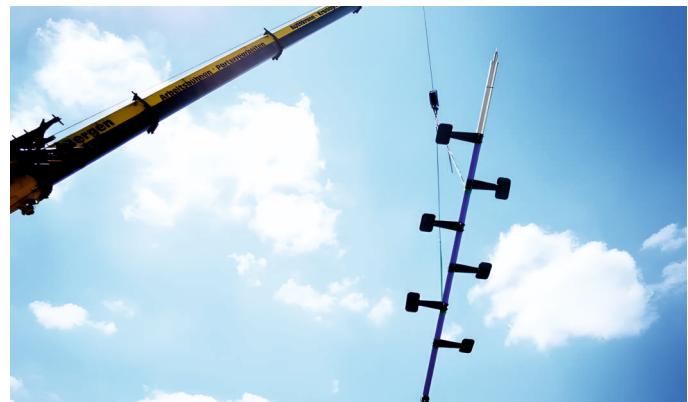
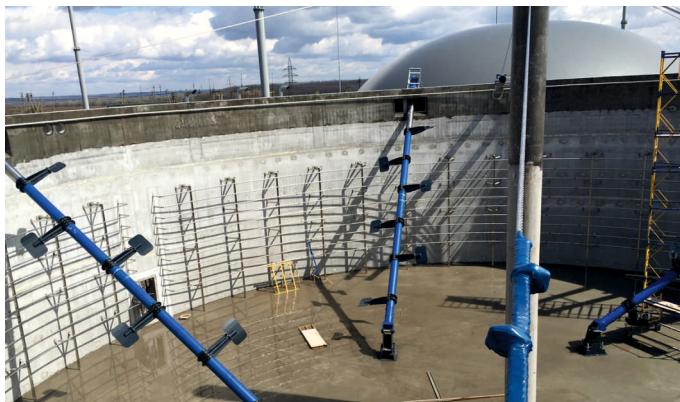
JF Biogas

JF Biogas specializes in CSTR based Semi Dry Fermentation Process/High Load Reactors (HLR) with over 40 years of experience. We have implemented around 120 industrial-scale biogas plants worldwide, utilizing diverse feedstocks like Paddy Straw, Maize Stalk, Napier Grass, Press Mud, and MSW. Our HLR technology ensures stable, efficient biogas production, particularly for high-solid and co-digested feedstocks, driving sustainable energy solutions.

CSTR based Semi Dry Fermentation Process/High Load Reactors (HLR)

JF Biogas specializes in the CSTR (Continuous Stirred Tank Reactor) based Semi Dry Fermentation Process, also known as High Load Reactors (HLR), developed by one of our founders in 2003. Since 2004, over 120 industrial-scale biogas plants using this technology have been successfully operating across Europe. This solution is designed to convert organic waste into biogas, offering a sustainable waste-to-energy approach.

PADDLE AGITATOR



ECO-DOS R Solids Feeder:

- Enables direct loading of solids into the digester for optimal biogas plant performance.
- Features a corrosion and acid-resistant interior, ensuring durability.
- Operates forwards and backwards, suitable for side or rear loading.
- Integrates with the plant's central control system via PLC.
- Optional weighing device for precise feed management.

Potential Feedstocks for Biogas Production



Press Mud/
Filter Cake



Napier Grass



Paddy Straw



Cow Dung



Cane Trash



Organic MSW

Why Choose SHRIJEE - JF BIOGAS for Your CBG Project?

1. Proven Expertise:

With over 40 years of experience in biogas plant planning to construction and operation—we offer reliable, expert support for your projects.

2. Decades of Experience:

Our long-standing experience in designing and operating biogas plants ensures we know exactly how to build efficient, cost-effective systems tailored to your needs.

Key Advantages:

- The digester size is 50% of the size of the wet fermentation process.
- No fresh water is consumed for digestion.
- Lower power consumption.
- Flexible with multiple feedstocks for digestion.
- Paddle agitators for robust mixing.

International References



4 MW, sugar industry waste biogas plant

2.5 MWe, Purified biogas fed into grid



2.5 MW, Biogas Plant, Germany



5 MW, Biogas plant, Germany



1.34 MW, waste processing biogas plant



2 MW, Multi feedstock biogas plant, Poland

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