

1. INTRO

Akaia Green Fuels (AGF) is constructing a 20-ton-per-day Compressed Biogas (CBG) plant in Shahjahanpur, Uttar Pradesh, in partnership with Climate Fund Managers. The facility converts paddy straw waste, sugarcane press mud, and cow dung into clean fuel and organic fertilizer. This initiative reduces air pollution, decreases reliance on imported fossil gas, and generates new income opportunities for rural communities.

2. Project impacts

- **20 TPD** clean biogas production
- **94,000 tonnes/year** waste processed
- **100,000+ tCO₂e** emissions avoided annually
- **700,000+ people** benefit from improved air quality
- Zero Liquid Discharge (ZLD) plant

3. 'ABOUT THE PROJECT' SECTION

Burning of leftover crops is a major environmental problem in northern India, causing serious air pollution in Uttar Pradesh during each harvest season. At the same time, India's need for gas and reliance on imports creates an energy security issue. The Akaia Green Fuels plant helps tackle both of the problems.

By sourcing paddy straw from local farmers and press mud from sugar mills, and converting these through anaerobic digestion, the plant produces pipeline-grade biogas that is injected directly into India's city gas distribution network.

4. Location & site

The facility is located at Bhamauri village, Tilhar Tehsil, Shahjahanpur District, Uttar Pradesh. The 29.39-acre site comprises flat agricultural land with natural drainage features and no significant undulations. The site meets AGF's internal land procurement criteria and is accessible via NH-730C.

Project Overview

- **Location:** Bhamauri village, Shahjahanpur, Uttar Pradesh
- **Coordinates:** 28°1'30.48"N, 79°38'34.89"E
- **Total Land Area:** 33.35
- **Operation Start:** Target 2027

5. Project impacts

- a. **20 TPD** clean biogas production
- b. **94,000 tonnes/year** waste processed
- c. **100,000+ tCO₂e** emissions avoided annually

d. **700,000+ people** benefit from improved air quality

e. Zero Liquid Discharge (ZLD) plant

6. Technology

Designed to process 94,000 tonnes of waste annually through anaerobic digestion & further biogas purification to remove moisture and CO. Our plant produces 20 tonnes of bio-CNG daily with up to 98% methane purity. Byproducts include Fermented Organic Manure (FOM) to enrich soil health and 13.3 TPD of purified CO₂ for the beverage industry. Operating as a Zero Liquid Discharge (ZLD) facility, all wastewater is recycled into plant operations.

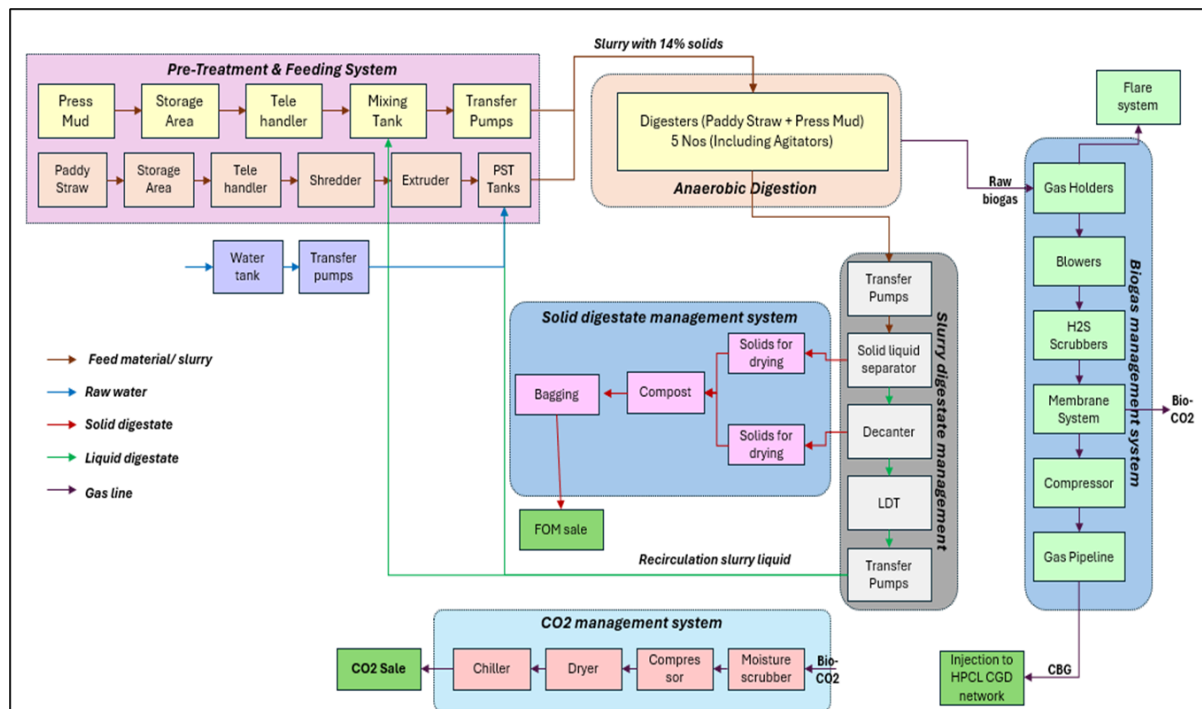


Figure: Process Flow Chart

7. GRIEVANCE MECHANISM

Akaia Green Fuels has a robust grievance mechanism to record and resolve complaints both internally and externally. Stakeholders receive periodic training on the process, and public disclosures ensure awareness through project boards, newspaper ads, and more. Grievances, whether oral or written, are recorded by a designated coordinator at each site, reviewed, investigated, and resolved per the project's ESMS. Data is monitored to track grievances by gender and identify patterns, systemic issues, and community feedback. [Click here to read our full ESG policy for India.](#)

Complaints can be registered with the [independent Grievance Redressal Mechanism of GCF here](#) or [directly with us here](#). (make a similar form like this re-directing to contact us)

8. Documents upload:

1. ESIA

2. NTS
3. HSSE Statistics
4. HSSE Policy