



BIOGAS GENERATION SYSTEMS

The Way You to Go Green



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BIOURJA | PRODUCT PROFILE

Biourja: the most sophisticated and efficient bio-methanation solution

- ✓ Designed for urban establishments, to co-exist with people.
- ✓ Completely pre-fabricated, modular systems.
- ✓ In-built odor, scum and foaming management.
- ✓ Multi-level gas safety systems.
- ✓ Flexible layout as per client's requirements and space availability.

Our Products Range

BioUrja: Capacities (400 KPD, 500 KPD, 750 KPD, 1000 KPD, 2000 KPD)

BioShakti: Capacities (400 KPD, 500 KPD, 600 KPD, 750 KPD, 1000 KPD, 2000 KPD)

MiniUrja: Capacities (100 KPD, 200 KPD, 300 KPD)

WHY BIOURJA BIOGAS PLANTS?

- ✓ Biogas Plants are live systems with various micro-organisms breaking down complex organic material in anaerobic conditions to produce biogas.
- ✓ The micro-organisms are extremely sensitive to ambient conditions and perform accordingly.
- ✓ Traditional systems are not temperature controlled and the health of the systems is not monitored, not controlled.
- ✓ Maximum gas production.
- ✓ Low down times.
- ✓ Dashboard: monitor the performance in real time.
- ✓ Gas productivity is 3x of traditional systems. (i.e. faster pay-backs.)



REDUCE YOUR
WATER FOOTPRINT



REDUCE YOUR
AREA FOOTPRINT



REDUCE YOUR
CARBON FOOTPRINT

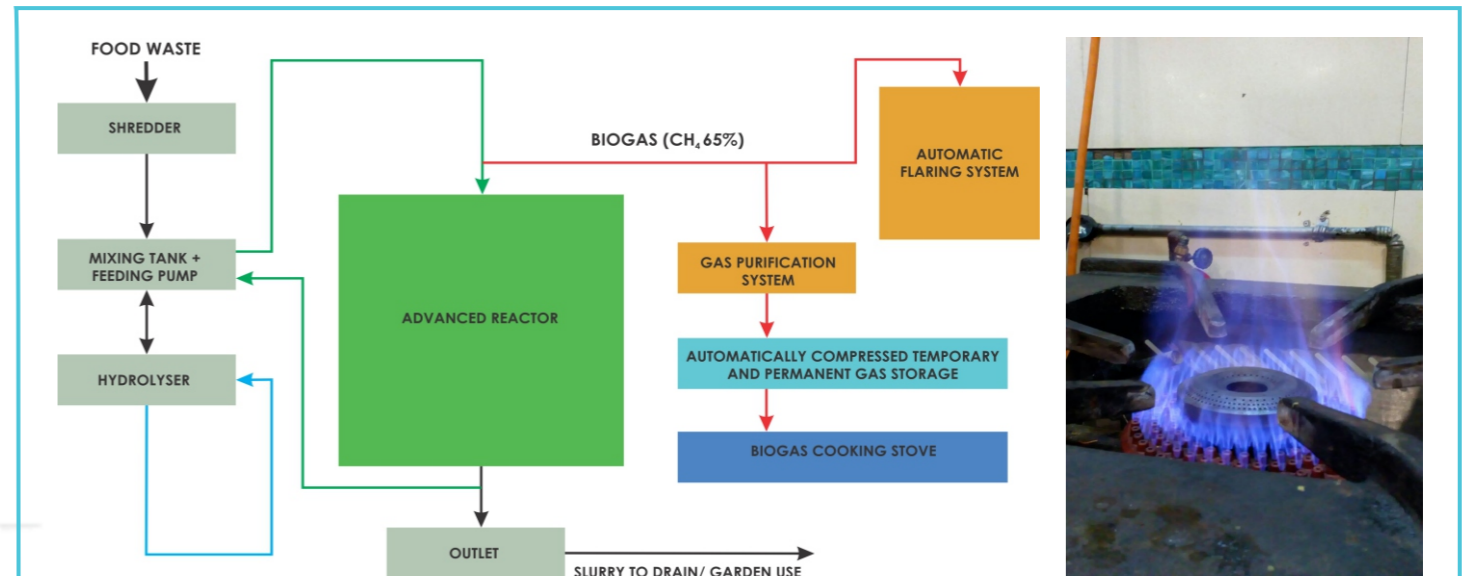
BIOURJA PERFORMANCE OVER OTHER PRODUCTS

- ✓ Double the gas production and digestion rate of other biogas systems.
- ✓ Minimal water usage.
- ✓ Zero effluent discharge system with rich manure content.
- ✓ Specially designed solution for seamless transition from LPG or CNG.
- ✓ Customized design to integrate with hybrid power generation units.
- ✓ Entire operation is automated and remotely monitored 24 x 7 for continuous operation.



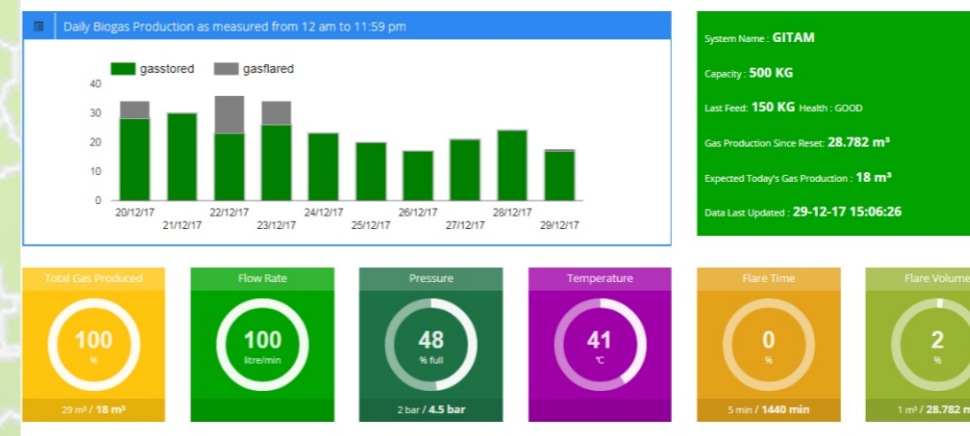
BIOURJA HEALTH MONITORING SYSTEM

- ✓ Plant health remotely monitored 24x7 for continuous operation.
- ✓ Automated gas management system for captive consumption through pipelines.
- ✓ Innovative health management for longer stability and performance.
- ✓ In-house developed technology and process for preventive maintenance and quick resolution.
- ✓ Online dashboard to monitor operational parameters.



KEY FEATURES TO ALL,

- ✓ High biogas production efficiency 120-140m³/ ton of food waste about 60-70 kg LPG equivalent fuel/ton of food waste.
- ✓ Gas supply at elevated pressures to allow for better gas transmission and equivalent feel of conventional fuel use.
- ✓ Automated flaring for superior safety.
- ✓ Temperature Controlled Digesters.
- ✓ Prefabricated, modular and minimal civil work required.
- ✓ Never – over fed
- ✓ Health is monitored daily
- ✓ Slurry; Good fertilizer source



AWARDS / RECOGNITIONS



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21- CMP11



Entrepreneur
MAGAZINE

Climate Solver (2015); Awarded by WWF. According to WWF, BioUrja has the potential to mitigate over 44 million tons of CO₂ by 2024

GPS led a worldwide cleantech CEOs call for action at COP21 along with WWF. Was one of the few startups WWF highlighted to convey the potential of cleantech solutions to world leaders at COP21

MIT TR35 (2013): GPS Founder Mainak Chakraborty named as one of the top innovators under the age of 35 by the MIT Technology Review

Entrepreneur Magazine (2013): Featured amongst top 8 cleantech firms in India



The Tech
Awards



GPS named as one of the 50 most promising startups across the world as a part of the Global Entrepreneurship Week by Kauffman Foundation. GPS was the only Indian startup to be a part of the GEW50 list

Global Top 5 (finalist - environment) at the Tech Awards, organized by the Tech Museum of Innovation, San Jose, USA

Sankalp Forum (2013): Winner, Cleantech Category. Sankalp is Asia's largest platform for recognizing social enterprises

Power of Shunya (2014); Featured in Times Now as a part of DuPont's Power of Shunya show that showcases top Indian innovations