



AVM Energen
Clean Power, Future Forward

AVM – Leading Biogas Equipment & Technology Solutions Company.

AVM is a leading multidisciplinary company specializing in project management, process design, and engineering of biogas plants. With a strong foundation in innovation and sustainability, we manufacture and supply a complete range of biogas equipment, gas storage systems, and gas flaring technologies designed to meet global energy standards.

Our advanced biogas components cover the full spectrum of requirements — from digester equipment such as gas domes, manholes, and foam traps, to gas purification systems including gravel filters, ceramic fine filters, activated carbon filters, and biogas dryers. We also offer high-efficiency, pressure-less biogas storage systems (gas bags) and reliable biogas flare systems for safe and efficient gas combustion.

With decades of engineering expertise and hands-on experience in the biogas industry, AVM delivers cutting-edge products and integrated system solutions that drive performance, safety, and sustainability. We are your trusted partner for modern biogas technologies — empowering industries to harness clean energy while protecting the environment

AVM Energen – Powering progress with sustainable energy.



ABOUT US



At AVM Energen, we believe the future of power is clean, efficient, and sustainable. As a trusted name in biogas-based energy solutions, we specialize in delivering high-performance Biogas and Natural Gas Gensets that redefine how industries and communities generate power.

With a strong focus on innovation and reliability, VAM Energen offers complete end-to-end energy solutions — from system design and installation to operation and maintenance. Our expertise spans across industrial, agricultural, and commercial sectors, providing customized systems that optimize energy use while reducing environmental impact.

Driven by technology and guided by sustainability, we partner closely with plant builders, developers, and system integrators to create smarter energy ecosystems that fuel growth responsibly.

At VAM Energen, we don't just power today — we empower a cleaner tomorrow. VAM Energen — Powering Progress. Naturally.

COMPANY'S CORE OBJECTIVES

To carry on the business of manufacturing, assembling, supplying, trading, installing, operating, and maintaining Biogas-based power generation systems, gas engines, and gensets, and to provide energy management, consultancy, design, and commissioning services related to biogas and renewable energy projects for industrial, agricultural, and commercial applications.

COMPLETE BIOGAS SYSTEM SOLUTIONS UNDER ONE ROOF

AVM Pvt. Ltd., we specialize in advanced biogas technology and sustainable energy solutions. Our systems are designed with efficiency, safety, and long-term reliability in mind, offering complete from gas storage to purification and safety management.

OUR PRODUCTS & SERVICES

MEMBRANE TYPE GAS HOLDERS

Flexible, Safe, and Efficient Biogas Storage

AVM's Membrane Gas Holders are designed to safely store biogas with optimal pressure balance.

Manufactured using high-grade, UV-protected membranes, these systems offer durability, flexibility, and easy integration with any biogas plant.

Highlights:

- Double / triple-layer safety membranes
- Automatic pressure regulation system
- Corrosion and weather-resistant construction
- Easy to install and low maintenance

Ideal for industrial biogas plants, wastewater projects, and renewable energy parks.



AVM PVT. LTD.

FLARE SYSTEMS

Safe, Efficient, and Environmentally Responsible Combustion

AVM's Flare Systems provide a safe and controlled method for the disposal of surplus biogas that cannot be utilized or stored.

Our systems ensure complete combustion of methane, thereby preventing its direct release into the atmosphere — a critical step in reducing greenhouse gas emissions.

Each flare is equipped with automatic ignition, flame detection sensors, and advanced combustion control systems to ensure safety and reliability even in remote or unmanned operation.

Technical Features:

- Available in open and enclosed flare configurations
- Constructed with heat-resistant stainless steel burners
- Auto-ignition system with pilot flame and thermocouple protection
- Low noise, smokeless combustion design
- Compliant with CPCB, ISO, and environmental safety standards

Applications:

Biogas and landfill gas plants, industrial digesters, and waste-to-energy systems.





CERAMIC FILTERS

High-Efficiency Gas Purification

Our Ceramic Filters remove H₂S, impurities, and fine particles from raw biogas, delivering cleaner gas suitable for engines and burners. The system improves equipment life, efficiency, and overall energy yield.

Highlights:

- High adsorption capacity
- Long-lasting ceramic media
- Compact and low-pressure design
- Easy regeneration and cleaning



Ensures reliable operation in power generation and upgrading systems.

MOISTURE TRAPS

Protection Against Condensation

AVM's Moisture Traps are designed to collect and remove condensate formed inside gas pipelines.

These compact units are easy to install and require minimal maintenance while ensuring longer equipment life.

Highlights:

- Manual or automatic drain options
- Corrosion-resistant construction
- Compact and long-lasting design



Essential for maintaining pipeline integrity and consistent gas pressure.

GRAVEL FILTERS

Primary Filtration for Biogas

The Gravel Filter is the first line of defense in biogas cleaning, removing larger dust particles, moisture, and impurities. Its simple and sturdy design ensures uninterrupted gas flow and longer lifespan for downstream equipment.

Highlights:

- Robust, maintenance-free design
- Customizable capacity
- Low cost and efficient filtration

An essential pre-filtration step in all biogas plants.



BIOGAS DEHUMIDIFIERS

Moisture Control for Better Performance

Moisture in gas pipelines leads to corrosion and reduced performance. AVM's Biogas Dehumidifiers ensure dry and clean gas output, protecting your equipment and improving combustion quality.

Highlights:

- Available in refrigeration-based and silica gel-based types
- High moisture removal efficiency
- Compact and energy-efficient
- Reduces corrosion and blockages

Ensures reliable operation of biogas engines and upgrading systems.



WHAT AVM OFFERS

COMPLETE BIOGAS ENGINEERING & PROJECT SOLUTIONS

1. Complete Biogas System Integration

AVM Pvt. Ltd. offers end-to-end biogas integration, covering gas generation, purification, storage, and utilization. We ensure every component — from digesters to flare systems — works in perfect coordination for maximum efficiency, safety, and output.

Scope: Process design, gas pipelines, control systems, and automation integration.

2. Design, Fabrication & Installation

Our in-house team provides customized design and fabrication for all biogas equipment as per ISO and CPCB standards. We manage the entire installation process with skilled engineers, ensuring reliability and long service life.

Includes: Structural design, fabrication, erection, and on-site commissioning.

3. Upgradation & Retrofitting

AVM specializes in modernizing and upgrading existing biogas plants to improve efficiency and safety. We replace outdated systems, optimize performance, and integrate automation to match current technologies.

Focus: Enhancing gas yield, safety, and process efficiency.

4. Turnkey Project Execution

As a turnkey project developer, AVM handles everything — from concept to commissioning. We deliver fully operational biogas plants with complete engineering, procurement, and construction (EPC) support.

Scope: Feasibility study, design, equipment supply, installation, testing, and operator training.

5. Annual Maintenance & Technical Support

To ensure consistent performance, AVM provides AMC and on-site technical services for all types of biogas systems. Our expert team offers regular inspections, maintenance, and emergency support for smooth, uninterrupted operation.

Services: Preventive maintenance, troubleshooting, and component replacement.

AVM's Commitment

We stand for sustainable, reliable, and efficient biogas engineering.

From design to delivery, our goal is to provide clients with systems that are technically advanced, cost-effective, and built to last.

WHY CHOOSE AVM PVT. LTD.

COMPLETE BIOGAS ENGINEERING & PROJECT SOLUTIONS

End-to-End Biogas System Integration

At AVM Pvt. Ltd., we deliver complete biogas solutions under one roof – from conceptual design to commissioning. Our systems seamlessly integrate all major components, including digesters, gas holders, filters, flare units, and safety systems.

This holistic approach ensures smooth operation, higher efficiency, and reliable gas output for every project.

ISO and CPCB-Compliant Manufacturing Standards

Quality and safety are at the core of every AVM product.

All our equipment is manufactured in compliance with ISO quality management systems and Central Pollution Control Board (CPCB) norms.

Each component undergoes strict testing to ensure it meets the highest standards of durability, performance, and environmental safety.

Proven Track Record in Design, Supply & Turnkey Execution

With years of industry experience, AVM Pvt. Ltd. has successfully executed numerous biogas and waste-to-energy projects across India.

Our team handles every stage – from engineering and procurement to installation and performance testing – ensuring timely delivery and superior results.

This proven capability makes AVM a trusted partner for both government and private sector clients.

Sustainable Technologies for Indian & Global Conditions

AVM's designs are developed keeping in mind India's diverse climatic and operational conditions, while also adhering to global performance standards.

Our systems are built for long-term sustainability – energy-efficient, low-maintenance, and capable of delivering consistent output even in challenging environments.

Dedicated Support, Maintenance & Service Team

We believe that client satisfaction continues long after project completion.

AVM provides ongoing technical support and annual maintenance services through a dedicated team of skilled engineers.

From preventive maintenance to emergency troubleshooting, we ensure your biogas plant operates smoothly throughout its lifespan.

Our Commitment

We are committed to helping industries, municipalities, and communities transition to clean, renewable, and self-sustaining energy systems.

With AVM Pvt. Ltd., clients gain not just a technology provider but a long-term partner dedicated to innovation, integrity, and sustainability.

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