

Welcome to Agama BiogasPro

Explore the world of biogas with us...

Vision

AGAMA BiogasPro strives to remain the leading solution in small scale biogas systems in Southern Africa, turning biodegradable waste into biogas and bioslurry.

Mission

Using anaerobic digestion in addressing waste management, energy needs and sanitation through utilising otherwise discarded waste materials.



Learn about biogas

If you think about a anaerobic digester system as being very much like a human digestive system you would have a reasonable understanding of the process.

The digester must be fed regularly – organic waste is mixed with water and then added to a system without any oxygen present.

Anaerobic bacteria consume this waste resulting in biogas being produced and the subsequent liquor is a valuable organic fertilizer.

Biogas



Bioslurry



Impact



Biogas

Biogas typically refers to a mixture of gases produced by the breakdown of organic matter in the absence of oxygen.

Biogas can be produced from regionally available raw organic materials such as food waste, manure, sewage, municipal waste, plant material, and crops.

Biogas is produced by anaerobic (without oxygen) digestion with anaerobic bacteria or by fermentation of biodegradable materials.

It is a renewable energy source and in many cases uses a very small carbon footprint.



Bioslurry

Bioslurry is the liquid discharged from the digestion process.

It has proven to have positive effects on yields of grains, vegetables and fruit

Bioslurry is a good alternative to synthetic pesticides and conventional fungicides

Some studies have shown positive results in increasing the amount of fish feed in ponds.



Impact

Environmental impact

- Using biogas can assist in:
 - Keeping organic waste and bacteria out of the environment
 - Conserve precious water resources
 - Cut greenhouse gas emissions.
 - Control of flies and vermin
 - Containment of all organic waste smell



Impact

Social impact

- Control over your own energy means you can provide heating, cooking and light.
- Removal of hazardous waste from the environment means less disease.
- Using bioslurry for crops aids in food security.



Impact

Economic impact

- The biogas system addresses a number of key challenges:
 - Access to energy
 - High cost of energy
 - Toxic waste and high cost of waste removal
 - Water scarcity through recycling
 - High cost of fertilizer and the need for high nitrate fertilizers
 - Opportunity for employment
 - Avoiding deforestation



Our projects

USAID Low
Emission
Development



Canteen



Household



School feeding
scheme



Farming



Hydroponics



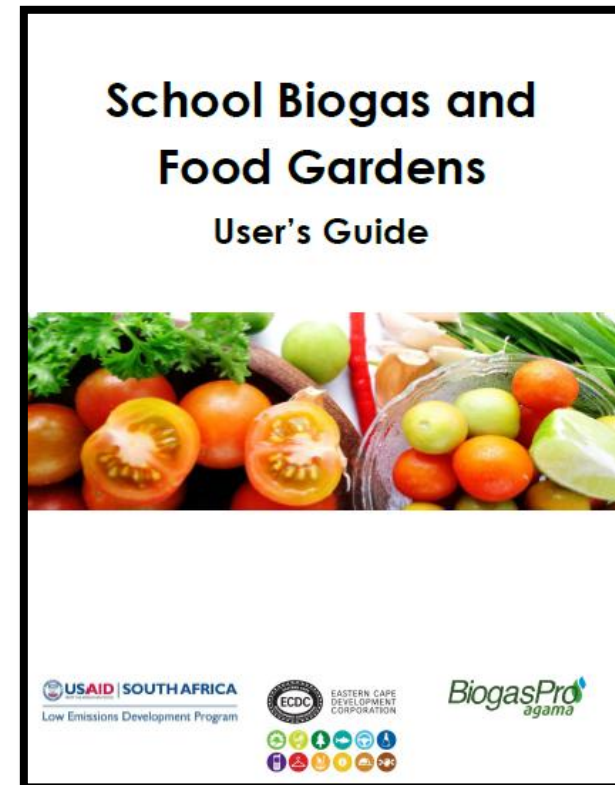
USAID: South Africa Low Emissions Development Program (SA-LED)

AGAMA Biogas was involved in SA-LED, which supported the Government of South Africa's Green Growth Agenda. It strengthened the capacity of the public sector to plan, finance, implement, and report on low emissions development projects and to accelerate the adoption of low emissions technologies for a green economy. The SA-LED program worked in partnership with the Department of Environmental Affairs and the Department of Science and Innovation.

SA-LED was a part of the USAID Enhancing Capacity for LEDs global flagship initiative, supporting more than 25 countries around the world.

SA-LED's period of performance concluded in May 2020.

<https://www.climatelinks.org/projects/south-africa-low-emissions-development-program-sa-led>



Canteen

A busy mine canteen, serving over 500 meals per day, generated 80Kg of food waste daily.

Two AGAMA BP6 systems were installed, generating gas for cooking.

The biogas slurry was used for mine soil rehabilitation.



Household



Household organic waste (including sewage) is used, joining an number of households together through the waste system.

Total waste of 12Kg daily.

Two AGAMA BP6 systems were installed, generating gas for water heating.

The biogas slurry is used for home food gardens.

School feeding scheme

30 Government Schools converted to the integrated biogas at schools systems.

The systems use 12Kg of food waste per day.

Gas is used for cooking the school meal.

Biogas slurry is used in the school food garden.



Farming

The project installed bio-digesters at two piggeries in Gauteng.

All the pig waste was used in the biogas systems, a total of 80Kg of waste daily.

Gas was used to heat piglets.

Slurry is used on co-feed crops for the pigs.



Hydroponics

A single biogas digester was installed for a fish and vegetable project in Gauteng.

The solid fish waste and processing waste is used as feedstock, up to 30Kg per day.

The gas is used to heat the water for the fish ponds.

The slurry is used as a heavy nitrate feeder for tomatoes and similar.



Our services

AGAMA Biogas offers a complete consulting service for those interested in organic waste removal and investing in biogas energy.

We offer biogas training, from one day workshops on biogas basics, to distributor training to develop biogas practitioners.

Our award winning AGAMA BiogasPro 6™ is potentially the best small scale biogas system available.

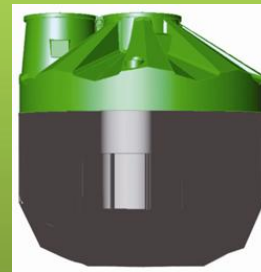
Consulting



Training



BiogasPro 6



Biogas cleaning and bottling



Consulting

Due to our experience in the South African and African markets we have a good understanding of the challenges and what is needed to make biogas projects a reality in this space. With projects from Sao Tomé to Pretoria, South Africa we are able to work successfully in any environment.

Training

AGAMA offers biogas training on full spectrum of biogas from basics to project assessment and running biogas projects.

The following programmes are on offer:

- One-day biogas basics – book as an individual or for a group
- One-day biogas application in farming
- Practical build-your-own-digester workshop
- Youth development workshops
- Three-day distributor training workshops



BiogasPro 6

The award winning AGAMA BiogasPro 6™ is a prefabricated biogas digester designed and manufactured in South Africa. A single easy-to-install tank incorporates the feeding, gas storage, gas pressurisation and slurry development in a single unit. The BiogasPro is highly reliable, with no moving parts prone to failure and all manufacturing quality assurance is performed in a controlled factory environment and therefore comes with a 3-year factory guarantee.

Our BP6 digesters are suitable for canteens, lodges, schools, clinics, smallholdings/farms and individual households.

These can be buried underground as a permanent solution or containerized for future re-siting.

Available through our distributor network.



Biogas cleaning and bottling

Biologically sourced fuel grade methane (BCNG) can be produced through the purification of biogas by minor pressure swing adsorption with a propriety energiser.

Three different adsorbents are employed in the process.



About us

AGAMA BiogasPro was established in 2008. The company presently has four shareholders.

Solid stakeholder support, good contacts, key sales and very low overheads have enabled the brand to survive through the growth phase of the biogas industry in South Africa.

During this time it has established itself as a reputable source for biogas equipment in South Africa. Work has been done to become registered with the bodies it needs to be with and is presently in fact the only Biogas system in South Africa with municipality approval.

The market is now entering a new phase in which all the ground work that has been done has the potential to generate a very good harvest.

Find our
distributors

Our distributors

Distributors and Installers details	Contact Person	Contact cell phone number	Contact e-mail	Area
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