

Biogas International Ltd

P.O BOX 24844-00502 KAREN +254 (0) 722 700 530

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OFF-GRID ENERGY SOLUTIONS

FLEXI-BIOGAS ENERGY SOLUTIONS

SUSTAINABLE AFFORDABLE RENEWABLE GREEN ENERGY FOR EVERY HOUSEHOLD

Flexi Biogas Solutions are the cleanest, greenest, most affordable & sustainable, portable and simple to operate biogas system yet developed.



Rural Domestic Total Energy Solutions



True Blue - pure energy



Assembly – only 1 day



Operation within 7 – 10 days

The systems are fabricated from specially treated robust materials designed to withstand all weather conditions. The fabric is manufactured to last over ten years, and we further enhance its lifespan can be enhanced by applying a sunscreen UV block solution every seven years. We further enhance the lifespan by housing the system in a Micro-greenhouse tunnel that not only shields the digester against the harmful effects of direct solar UV rays, but also enhances and maintain high temperatures that increase the fermentation process and hence delivering unmatched efficiency and performance.

The tunnel also shields the system from farm animals and critters such as children who believe the system is their personal bouncing castle 😊

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PORTABILITY



5 Systems ready for dispatch



Boda-boda to anywhere

INSTALLATION

Flexi systems install in only a few hours and normally will be operational within 7-10 days. For guaranteed sustainability, we request the users to provide us at least 3-4 people for training on operation, troubleshooting and maintenance during the installation.

Otherwise, the system is fully automated and maintenance free with no extra input costs.



Ground prep



Laying the envelope



Housing the Micro-tunnel



Plumbing



Training – loading



- “what to” & “what not to”



Clean, Green, Serene

EFFICIENCY UNMATCHED

With unmatched efficiency, 20 – 25 kg of feed stock, or dung from a single cow will provide all the daily cooking fuel requirements for the typical 4-6 member homestead. This includes cooking “githeri” (traditional maize and beans favourite), which can take up to and over 3 hours cooking.

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1 Cow (or No cow)



Solar Capture – Micro-Greenhouse Tunnel Technology

NO COW NEEDED

Flexi Biogas systems will run on virtually any biodegradable matter - cow, pig, goat, sheep, rabbit or/and chicken dung, kitchen waste, market waste, grass, water hyacinth, farm weed and garden clippings, ... etc

Points to Ponder - Flexi Biogas Systems are the ONLY Domestic Biogas Systems Globally that will run on 100% chicken poop.

“In fact you do not need a cow to own the Flexi system.”



Anything Bio-degradable goes – Animal waste, Garden weeds, Kitchen and market waste, Water hyacinth, Mathenge, ... etc

PURE CLEAN ENERGY

Larger capacity systems will produce sufficient gas to run machinery such as chaff cutters, water pumps, generators, etc improving efficiency, productivity and quality of the daily chores on the typical small-scale farms.



Generator, Chaff cutter etc



Biogas Chick Brooding



Biogas-Solar Combo Dehydration

SUSTAINABILITY

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Upon installation, we further train the users on how to run and maintain the system, what does and what doesn't, troubleshooting the system and how to solve hitches. We are also available 24/7 to offer technical support to all our clients via mobile phone and email.



... the old, the young, the everyone

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SCALEABILITY



Institutional and large scale capacity – the sky ...

PURE ORGANIC BIO-SLURRY



The large volume of output bio-slurry is a mineral rich, seedbed ready organic fertiliser requiring no further processing or curing. This is an added invaluable asset to every farm ensuring food security in the country. 99% sterilised, the bio-slurry has no smell, and does not attract undesirable flies, maggots etc

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Flexi biogas = Food security

STOP BURNING OUR CHILDREN'S TOMORROW



- *“Nearly 2 million people die prematurely from illness attributable to indoor air pollution from household solid fuel use.*
- *More than 1 million people a year die from Chronic Obstructive Respiratory Disease (COPD) that develop due to exposure to such indoor air pollution”*

Source - <http://www.who.int/mediacentre/factsheets/fs292/en/>



... Charcoal, the cancer of poverty ...

95% of homesteads in the developing world rely on wood-fuel for their domestic energy

We are depleting our forests at a rate of 40% per year

If we do not act NOW, in 10 years there will be no trees

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LIVE TESTIMONIES



... pictures speak mountains

MONEY BACK GURANTEEE



... look familiar??? (Abandoned failed conventional systems)

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FLEXI BIOGAS COSTS

Model	Production / day - Lts.	Recommended usage	Kes.
DBG	1000-1500	All domestic cooking of a typical 4-6 member small scale rural home with 1 or 2 cows.	40,000.00
BG5	1500-2500	Recommended for a larger family of 8-12 member or a home with larger fuel demand	55,000.00
BG6	4000-5000	Capacity for domestic use or all small farm energy requirements like chaff cutters, hammer mill, water pumps etc	70,000.00

KARIBU (welcome to) ERC - Karen

Biogas International Limited or BIL, a limited liability company was founded in Kenya in the year 2011 and operates from Karen in Nairobi. We have designed our offices as an Eco Resource Centre - ERC, where we design simple appropriate technology tools to alleviate daily challenges on the typical rural farm.

We have spent more than 15 years in research and development, and our products have gone through rigorous development stages to guarantee sustainability. We focus on simplicity, affordability and ease of operation in solutions to daily challenges that will benefit the people and assist in poverty eradication.

We design the tools to use locally available materials and where necessary, off the shelf components. All of our gadgets and tools can easily be assembled by the average local technician.

Tools and equipment are designed to makes life ~~a little bit~~ **a lot** simpler for the rural farmer, offer sustainable and affordable total energy solutions, and all in Green mode. Many of our products are custom designed to suit the particular needs of a clients, and we are always designing new gadgets on suggestion of the users.

Our product portfolio includes but not limited to Flexi-Biogas digesters, Biosangas waste management systems, Evapo-coolers, Chick incubators & brooders, Biogas/Solar Combo Fruit & vegetable dryer, Vertical gardens... the list goes on



Fruit dryers

Vertical garden

Evapo-cooler

Biogas Brooders

Gunia Gardening

ALL EARS

If you have a challenge or an idea to simplify a task or solve a problem, we are up for the challenge and will more than likely be able to design a gadget or find a solution.

We are all ears to your suggestions and queries, and also appreciate constructive criticism.

**FOR MORE INFO, VISIT OUR ECO-RESOURCE CENTER AT, NGONG ROAD, MWITU CLOSE (NO 33),
KAREN**

“... KEEPING IT SIMPLE”

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