



keilot

CLEAN | OFF-GRID | SOLUTIONS





Our technologies are focused on farmers and our **MISSION** is to reach as many farmers, disconnected communities and institutions across the country.



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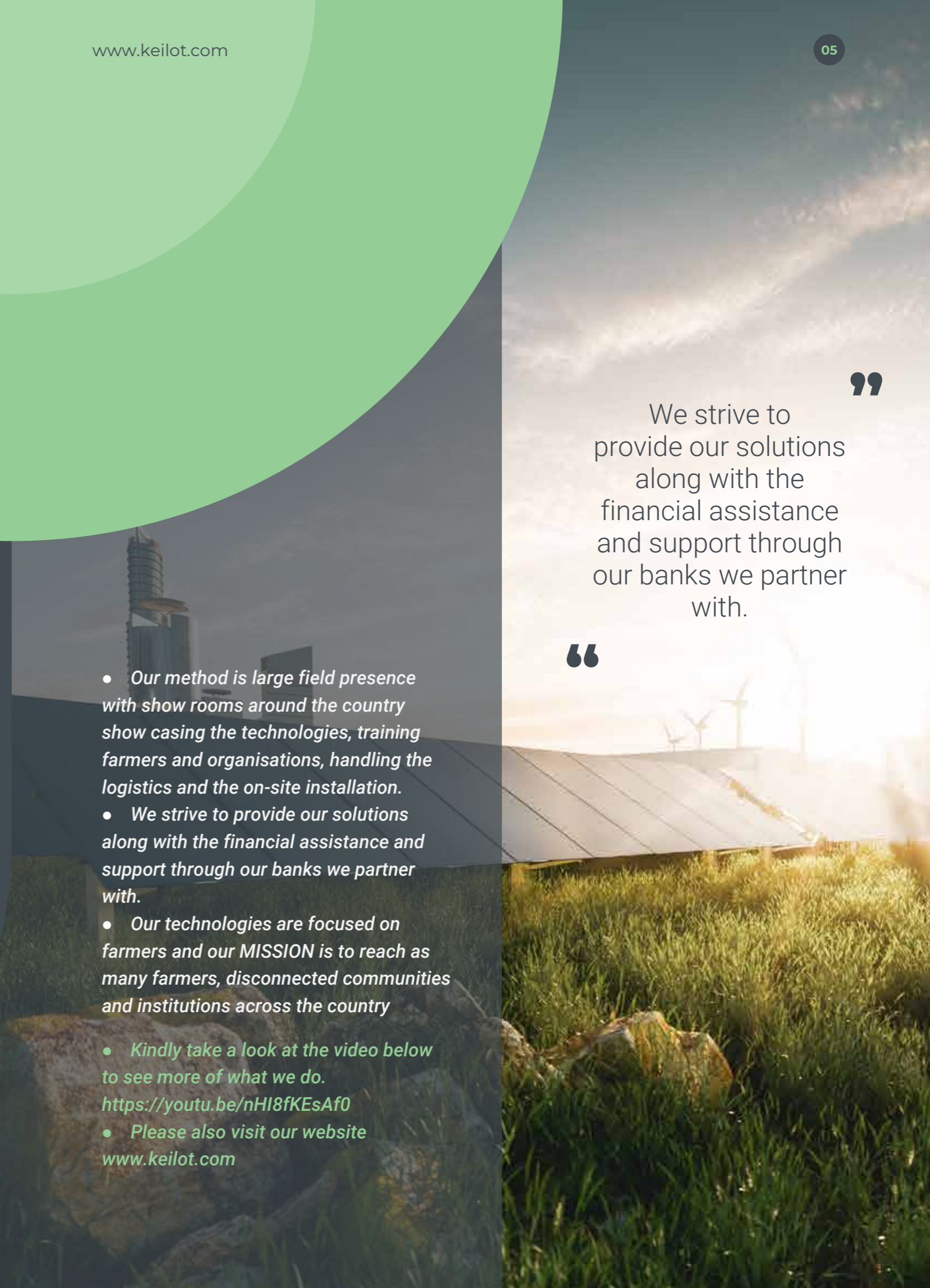


Who We Are

- Keilot is an integration platform for Israeli technologies focused on developing countries
- Our hub is in Kenya - Nairobi and we have various show rooms around the country with the strategy to develop into East Africa
- Our solutions focus include : Clean cooking, Water purification, PV solutions and Agricultural solutions
- We invest in rural areas, small farmers and strive to provide these off grid solutions to as many farmers we can reach
- Keilot installs, implements, trains and markets the technologies to the end users based on the technology applications

- Our method is large field presence with show rooms around the country showing the technologies, training farmers and organisations, handling the logistics and the on-site installation.
- We strive to provide our solutions along with the financial assistance and support through our banks we partner with.
- Our technologies are focused on farmers and our MISSION is to reach as many farmers, disconnected communities and institutions across the country
- Kindly take a look at the video below to see more of what we do.
<https://youtu.be/nHI8fKEsAf0>
- Please also visit our website www.keilot.com

“ We strive to provide our solutions along with the financial assistance and support through our banks we partner with. ”





Our Values



ALL AROUND THE WORLD WITH THE FOCUS ON AFRICA

Keilot develops partnerships with internationally recognised companies, with the intention of penetrating the African Market. Jointly we develop the products to suit the local market and work in partnership to enhance efficiencies on logistics, sales and operations.

A CLEANER WORLD

The movement toward reducing our impact on the globe is one of the most pressing concerns of our time. Keilot invests in projects and services targeting improved operational efficiency, renewable energy, and other sustainable infrastructure.

A BETTER WORLD

Clean energy, clean cooking and clean water are an urgent global issue. The reasons are numerous, complex and multifaceted. Keilot works with both private and government sectors to improve reliability on production, agricultural impact on the environment, water scarcity, changing of consumption trends and price volatility.

A SAFER WORLD

Rural areas, farmers, cooperatives, saccos and foundations as well as Governments, local communities and businesses realise they need new ways to mitigate risk and withstand new threats. Keilot provides a range of solutions including renewable energy, clean energy, clean drinking water clean cooking solutions.

“ Our technologies are focused on farmers and our MISSION is to reach as many farmers, disconnected communities and institutions across the country ”

Our Responsibility

Corporate Social Responsibility

We believe in upholding values that help make us a model business partner and an employer of choice. We are committed to maintaining an ethical, safe, and environmentally sustainable culture. These principles govern the way we do business. They help us maintain a culture that respects the safety and well-being of every employee and visitor at our locations. They inspire us to promote energy efficiency and waste reduction for ourselves and our customers.

Ethics

Holding ourselves to the utmost moral standards is a cornerstone of our business. Every partnership, transaction, and interaction is managed with integrity, fairness, and respect. To stay true to this philosophy, we require all employees to review and sign an annual Code of Business Ethics and Conduct. This helps them identify areas of potential conflict and offers guidance in recognizing and managing ethical issues.

Sustainability

Sustainability is an important strategic priority and a company-wide responsibility at Keilot. We aim for Lean process improvements while helping our customers make progress in lighting efficiency, energy management, renewable energy, water and waste mitigation, and green procurement.

Continuous Improvement

Lean practice is a vital part of our daily culture. That's why we consistently evaluate our processes to identify opportunities for improvement. To foster positive changes across all aspects of our company, we require all employees to take Lean white belt training while offering them opportunities for further education.

Our customers are seeing the benefits. Our Lean practice helps us amplify their operations and provide solutions that could positively influence their bottom line. If the introduction of a simple process change adds value to their business, we've done our job.

Community

Giving back to our communities is an essential part of who we are. Every year, we are humbled by our employees' generosity. Their charitable works range from mentoring and education to hosting toy drives and donating food and personal care items to those in need. All our projects include a CSR community program which we execute together with the projects including employing and training local employees

Research & Development

we are able to develop **NEW solutions for the developing market needs**, as well as develop the business financing and logistics framework.

We cooperate with the Arava Development Center and the department for development studies at Tel Aviv University to promote student research and direct with consumers on areas such as satisfaction, difficulties encountered, further needs, and the degree to which assimilation of these systems contributes to reducing greenhouse gas emissions and empowers participant's health and financial capabilities.

As an organization, our aim is to assist and help institutions enhance their lifestyle through green energy, improve their lives and reaching marginalized communities. We strive to reach anyone anywhere with the purpose of improving lives.

Keilot is able to develop NEW solutions for the developing market needs, as well as develop the business financing and logistics framework. We identify challenges, find innovative technological solutions sourced mainly out of Israel and implement them in the field. This complex and unique marketing strategy enables ongoing dialogue with the consumers, understanding their needs, R&D, innovation assimilation, finding local financing sources, local logistics, and marketing.

2030 Agenda for Sustainable Development

Many nonprofit organizations, NGO's and institutions are working towards resolving developing world's problems based on the SDG goals. The problems are many, the challenges are huge and diverse, yet there is no one holistic solution to the problems. The greater the number of initiatives, the greater the chances they will all eventually interconnect to a more conclusive solution.

We have the latest technologies fit for a purpose that can economically suit our remote clients, bearing in mind that we utilize natural resources and renewable clean energy in order to save costs.

With our technologies and concepts, we successfully tick the below boxes the General Assembly adopted for the 2030 Agenda for Sustainable Development:

“
We have the latest technologies fit for a purpose that can economically suit our remote clients



GOAL 1:
No Poverty



GOAL 2:
Zero Hunger



GOAL 5:
Gender Equality



GOAL 6:
Clean Water & Sanitation



GOAL 7:
Affordable & Clean Energy



GOAL 13:
Climate Action

Our Technologies

Our focus is on 4 main leading technologies. We however also promote additional technologies for agriculture purposes, solar farms, mini grids, and wind farm all through technologies developed in Israel.



Home Biogas



Nuf Water Purifier



Milking Machine



Solav Water Heater





Nuf Filtration Water Purifying System

The Nuf plays a big role in helping fight some of the water challenges being faced in many communities due to lack of clean water.



Few facts on water

- Water contaminated diseases like Typhoid and Cholera affecting 85% of children under the age of 5.
- Lack of clean drinking water in about 42% of healthcare facilities and hospitals in Africa.
- 2.2 million deaths a year caused by severe diarrhea due to lack of clean drinking water.
- 319 million people living in Africa don't have regular access to sustainable clean drinking water.

Our system

- The purification process was inspired by the human dialysis procedure used in hospitals.
- In a similar manner, the Nuf has these membrane filters that have been designed to clean water hence giving 100% bacteria free water!
- The NUF system has been approved by The World Health Organization and The Kenya Water Institute.
- The water passes through a membrane filtration system cleaning it completely.
- The Nuf is designed to allow a user to back wash the system in a simple easy to use manner every few uses to keep the membranes clean.
- Apart from tackling the above issues, the Nuf can now also be used in communities to sell clean water hence encouraging self-sustainability and generating an income in consideration of the current hard times.
- We have various capacities from 250 l/h to 5,000 l/h

Some of our technical movies explanations

- <https://youtu.be/bveFblz9ylw>
- <https://www.youtube.com/watch?v=EYSDrETg0q8>
- <https://www.youtube.com/watch?v=I0LNPJ3vavk&feature=youtu.be>
- <https://www.youtube.com/watch?v=VRS0Uap2muY>



Our Experience

Keilot Kenya has over months been installing over 50 Nuf systems country wide. We have also worked on some special projects including purifying sources of water in rural areas. Our specially trained technicians provide excellent customer service, care and training to all our clients. We have installed several systems including one of our special client, Mama Fatuma Children's home.

Some NUF Testimonials:

<https://youtu.be/PA47bNfh5PI>
<https://youtu.be/zpeypZdRIBs>





Test Results

KENYA WATER INSTITUTE

Telephone: Nairobi 001924, 011 25 23 49 49
 Fax No: 001924, Nairobi 011 25 23 77 77
 E-mail: info@kwil.or.ke
 Website: www.keilot.com

Old Dispensary Avenue
 Nairobi South C
 P. O. BOX 60011 - 00200
 KENYA

Water testing office name: **RESEARCH LAB**

MICROBIAL WATER ANALYSIS REPORT

Description of Sample: **Filtered Water** Sampling Date: **08-06-2020**
 Sample Ref. No: **KE1254/2020** Date Received: **08-06-2020**
 Source: **Ukiba** Date Analyzed Started: **08-06-2020**
 Purpose of Sampling: **Domestic** Sample Submission Form: **426**
 Submitted by: **James Mutha** Customer contact: **0722644631**
 Client Name: **Keirot Kenya**

PARAMETERS	UNIT	RESULTS	WHO STANDARDS	KEBS KS059-1:2007 STANDARDS
Total Coli form	TC/100ml	NIL	< 3	< 10
Faecal Coli form	FC/100ml	NIL	N/A	50

COMMENT/REMARKS: The sample performed as above.
 This Report refers to a privately submitted sample, and all details in respect of the source and the location of similar products are not verified or confirmed.

Name of Analyst: **Readi** Signature: *[Signature]* Date: **10/06/2020**
 Chemist: *[Signature]* Date: **10/06/2020**
Kenya Water Institute
Water Quality Laboratory

This report contained herein apply only to particular sample(s) tested whose specific tests carried out as detailed in the Test Report. No extract abridgement from a Test Report may be published or used to advertise a product without the consent of the Director, KEWI

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Old Dispensary Avenue
 Nairobi South C
 P. O. BOX 60011 - 00200
 KENYA

Water testing office name: **RESEARCH LAB**

MICROBIAL WATER ANALYSIS REPORT

Description of Sample: **Household Water** Sampling Date: **08-06-2020**
 Sample Ref. No: **KE1254/2020** Date Received: **08-06-2020**
 Source: **Ukiba** Date Analyzed Started: **08-06-2020**
 Purpose of Sampling: **Domestic** Sample Submission Form: **426**
 Submitted by: **James Mutha** Customer contact: **0722644631**
 Client Name: **Keirot Kenya**

PARAMETERS	UNIT	RESULTS	WHO STANDARDS	KEBS KS059-1:2007 STANDARDS
Total Coli form	TC/100ml	>2420	< 3	< 10
Faecal Coli form	FC/100ml	NIL	N/A	50

COMMENT/REMARKS: The sample performed as above.
 This Report refers to a privately submitted sample, and all details in respect of the source, and test results of similar products are not verified or confirmed.

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 Website: www.keilot.com

Old Dispensary Avenue
 Nairobi South C
 P. O. BOX 60011 - 00200
 KENYA

Water testing office name: **RESEARCH LAB**

PHYSICAL/CHEMICAL WATER ANALYSIS REPORT

Description of Sample: **Filtered Water** Sampling Date: **08-06-2020**
 Sample Ref. No: **KE1254/2020** Date Received: **08-06-2020**
 Source: **Ukiba** Date Analyzed Started: **08-06-2020**
 Purpose of Sampling: **Domestic** Sample Submission Form: **426**
 Submitted by: **James Mutha** Customer contact: **0722644631**
 Client Name: **Keirot Kenya**

PARAMETERS	UNIT	RESULTS	WHO STANDARDS	KEBS KS059-1:2007 STANDARDS
pH	pH scale	7.17	6.5-8.5	6.5-8.5
Colour	Hazen	1.0	Max 15	Max 15
Turbidity	NTU	0.23	Max 5	Max 5
Total Alkalinity as CaCO ₃	mg/l	156.0	Max 500	<500
Conductivity (25°C)	µS/cm	590.0	Max 2000	Max 2000
Iron as Fe	mg/l	0.95	Max 0.3	Max 0.3
Cadmium as Ca	mg/l	<5.8	Max 100	Max 100
Magnesium Mg	mg/l	28.21	Max 100	Max 100
Total Dissolved Solids (TDS)	mg/l	230.0	Max 500	Max 500
Chlorine as Cl ₂	mg/l	0.51	Max 100	Max 100
Nitrate as No ₃	mg/l	79.2	Max 50	Max 50
Nitrite	mg/l	0.028	Max 0.1	Max 0.007
Fluoride as F	mg/l	1.35	Max 1.5	Max 1.5
Sulphate as SO ₄	mg/l	1.0	Max 450	Max 450
Manganese as Mn	mg/l	0.010	Max 0.1	Max 0.1
Total Dissolved Solids as Ion	mg/l	710.0	Max 1000	Max 1000
Carbon Dioxide as CO ₂	mg/l	4.0	NS	NS
Ammonia as NH ₃	mg/l	0.026	Max 0.2	Max 0.1

COMMENT/REMARKS: The sample performed as above.
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 Client Name: **Keirot Kenya**

PARAMETERS	UNIT	RESULTS	WHO STANDARDS	KEBS KS059-1:2007 STANDARDS
pH	pH scale	7.17	6.5-8.5	6.5-8.5
Colour	Hazen	27.50	Max 15	Max 15
Turbidity	NTU	0.07	Max 5	Max 5
Total Alkalinity as CaCO ₃	mg/l	238.0	Max 500	<500
Conductivity (25°C)	µS/cm	494.0	Max 2000	Max 2000
Iron as Fe	mg/l	ND	Max 0.3	Max 0.3
Cadmium as Ca	mg/l	54.0	Max 100	Max 100
Magnesium Mg	mg/l	18.74	Max 100	Max 100
Total Dissolved Solids (TDS)	mg/l	128.0	Max 500	Max 500
Chloride as Cl ⁻	mg/l	42.0	Max 250	Max 250
Nitrate as No ₃	mg/l	41.26	Max 50	Max 50
Nitrite	mg/l	0.023	Max 0.1	Max 0.007
Fluoride as F	mg/l	0.30	Max 1.5	Max 1.5
Sulphate as SO ₄	mg/l	NT	Max 450	Max 450
Manganese as Mn	mg/l	0.002	Max 0.1	Max 0.1
Total Dissolved Solids as Ion	mg/l	305.28	Max 1000	Max 1000
Carbon Dioxide as CO ₂	mg/l	1.0	NS	NS
Ammonia as NH ₃	mg/l	0.040	Max 0.2	Max 0.1

NS: Value below method detection limit

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World Health Organization



Home Biogas

Turn Waste Into Cooking Gas

Keilot Kenya gives customers clean cooking energy through our Home Biogas system. A technology designed and created to provide home cooking gas using biodegradable products like kitchen wastes and animal waste. Using animal waste (preferable cow dung) mixed with water in a ratio of 1:2, the waste generates methane gas that replaces the normal LPG gas.



Designed with a light weight special canvas, our 7 cubic meter biogas generates up to 7 hours of cooking gas. With a specially designed filter for hydrogen Sulphur, it prevents corrosion of the covering sheets. The biogas not only generates gas but also provides liquid fertilizer that is an environmentally friendly recirculation of organic waste from animal and kitchen waste.

Movie Link

<https://www.youtube.com/watch?v=htB5vCWx-Bqs&feature=youtu.be>

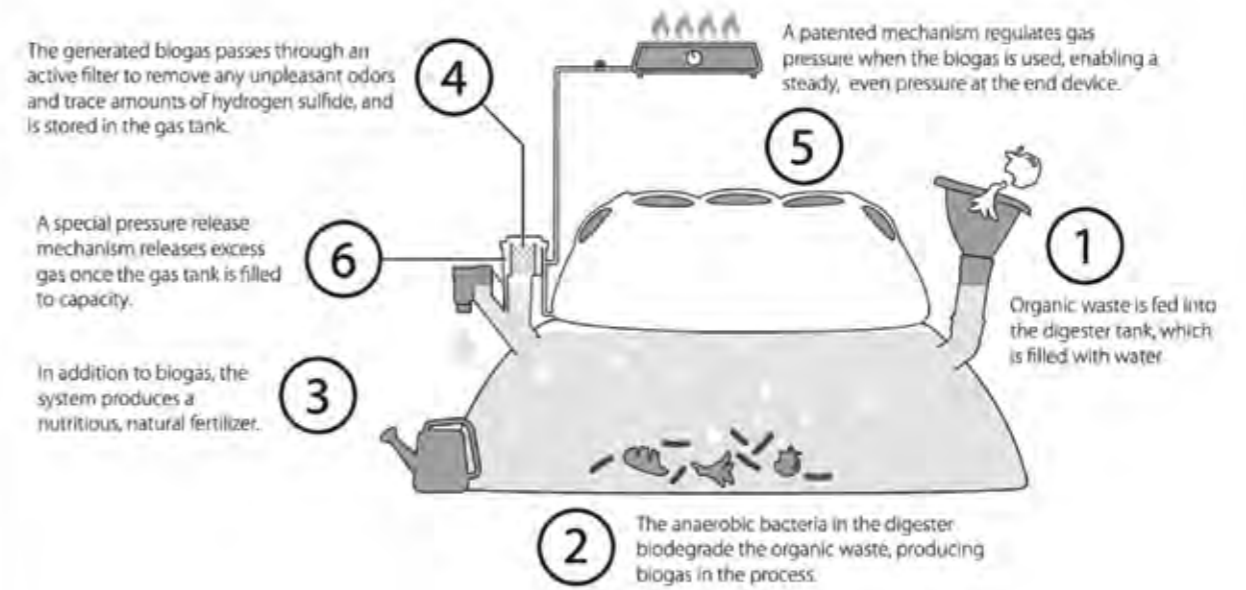
Benefits

Home biogas has many factors that are not only economically and environmentally friendly but also reduces health hazards in communities. Some of the benefits include:

- Less use of firewood, charcoal and kerosene usage
- Reduces deforestation
- Less smoke and fume exposure
- Less air pollution
- Saves cost on LPG / charcoal usage
- Healthier organic farming due to use of fertilizers as an additional product from the unit (see below)
- Special canvas like material light in weight making it easy to install
- No need for any construction...just flat solid ground!
- Faster and healthier cooking compared to using charcoal or firewood
- The simple to install and use biogas system that recycles organic waste, creates renewable energy & saves you money. Transform your waste and transform your life.
- Great solution for waste disposal



The system operates as a continuous-flow system: organic waste is fed into one end, and gas and fertilizer are emitted constantly from the other as long as the system is active and being fed. (Fertilizer is produced whenever liquid & waste are added into the system)



INTRO

It's time to accelerate plant growth, cut your fertilizer costs and get higher yielding crops. HomeBiogas bio-fertilizer is packed full of various macro and micro nutrients in a form which allows for rapid absorption by plants. The presence of these nutrients make HomeBiogas bio-fertilizer a great choice for small-scale agriculture and purposes. This guide will show you how to utilize your HomeBiogas bio-fertilizer to get the best results.

YOUR BENEFITS FROM HOME BIOGAS BIO-FERTILIZER

FOR YOUR SOIL

- Supplies essential macro and micro nutrients such as Nitrogen, Phosphorus, Potassium, Zinc, Copper and Iron among others.
- Helps to buffer the soil pH.
- Improves water retention capacity.
- Provides a conducive environment for soil microorganisms to thrive.
- Effective in the soil for over 3 years.
- Accelerates the decomposition of organic material in the soil.



INCREASE CROP PRODUCTION BY 30% OR MORE

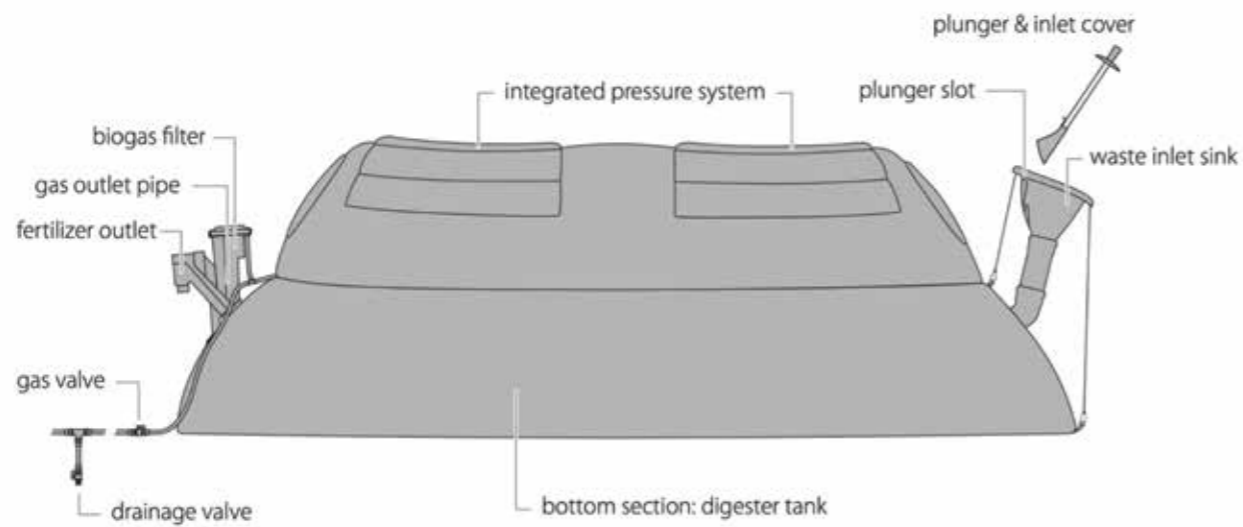
FOR YOUR CROPS

- Increases the production of common fruits, cereals and vegetables by up to 60 percent.
- Increases maize yield by 40% or more.

FOR YOU

- Using bio-fertilizer will enable you to grow healthier food. No more heavy farm chemicals for your vegetables in kitchen garden.
- Organic crops can be sold at a premium cost and is becoming more popular with more distributors looking for it.

main parts of the system



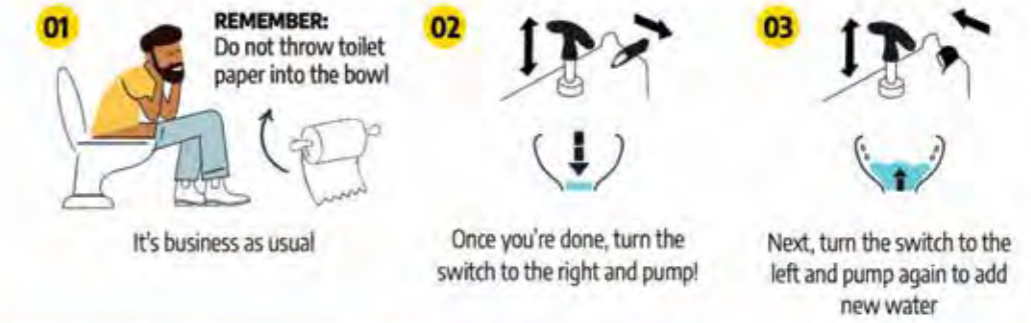
Experience

Having installed over 100 unit within Kenya, our team composes of specialized technicians who install and train the customers to their satisfaction. We maintain and service our technologies for a period of two years and maintain high customer satisfaction.

Attached here are some links for your perusal.
<https://www.youtube.com/watch?v=htB5vCWxBqs&feature=youtu.be>
<https://youtu.be/he7IjDIChqM>



HOW IT WORKS:



THAT'S IT, YOU'RE DONE,
 Behind the scenes, the bacteria in the HomeBiogas digester breaks down your waste into a clean renewable energy for daily cooking.



DID YOU KNOW? Over the next year you








- 
 Save 30,000 liters of water
- 
 Create 250 hours of free cooking gas
- 
 Reduce your carbon footprint

The Bio Toilet

The Homebiogas bio-toilet is the best way to treat human waste and transform it into renewable energy while saving you water and reducing your carbon footprint. The HomeBiogas toilet is an add-on to the HomeBiogas domestic biogas system that allows users to turn human waste into clean energy in the form of cooking gas.

BIO-TOILET ATTACHMENT



-  Quick installation
-  Manual dual-function pump
-  Toilet connects directly to biodigester
-  Automatic back-flow prevention
-  1 liter water per flush
-  Top-quality, hygienic ceramic bowl
-  Uses recycled water, doesn't rely on water grid





SOLAV

The Solar Water Heater

- Our solar water heaters are Designed and manufactured in Israel. It is one of the best technologies above other because it is all in one.
- The Solav comes with an in-built 100 liter polymer-based water tank light in weight, fit to meet all our client's needs.
- The Solav has a maximum operating pressure of 200kpa and comes with a pressure control geyser that automatically releases pressure once the temperatures reach the maximum of 85 degrees Celsius.
- Each system can cover up to 4 people in a house hold but several can be interconnected to cater for any amount of people.
- Any number of systems can be connected

Few Unique Facts

- It has an in-built tank of 100 liters made of polymer material making it light in weight
- Works with salty water
- It is Corrosion Free
- Zero calcium deposit
- Maintenance free.
- Environmental friendly
- It is durable for up to 10 years
- Saves up to 40% of energy Expenditures.
- Can additionally come with a heating element (optional)
- Very aesthetic design

Some Testimonials:

<https://youtu.be/PA47bNfh5PI>

<https://youtu.be/zpeypZdRIBs>

SOLO Plasma

Technical specifications

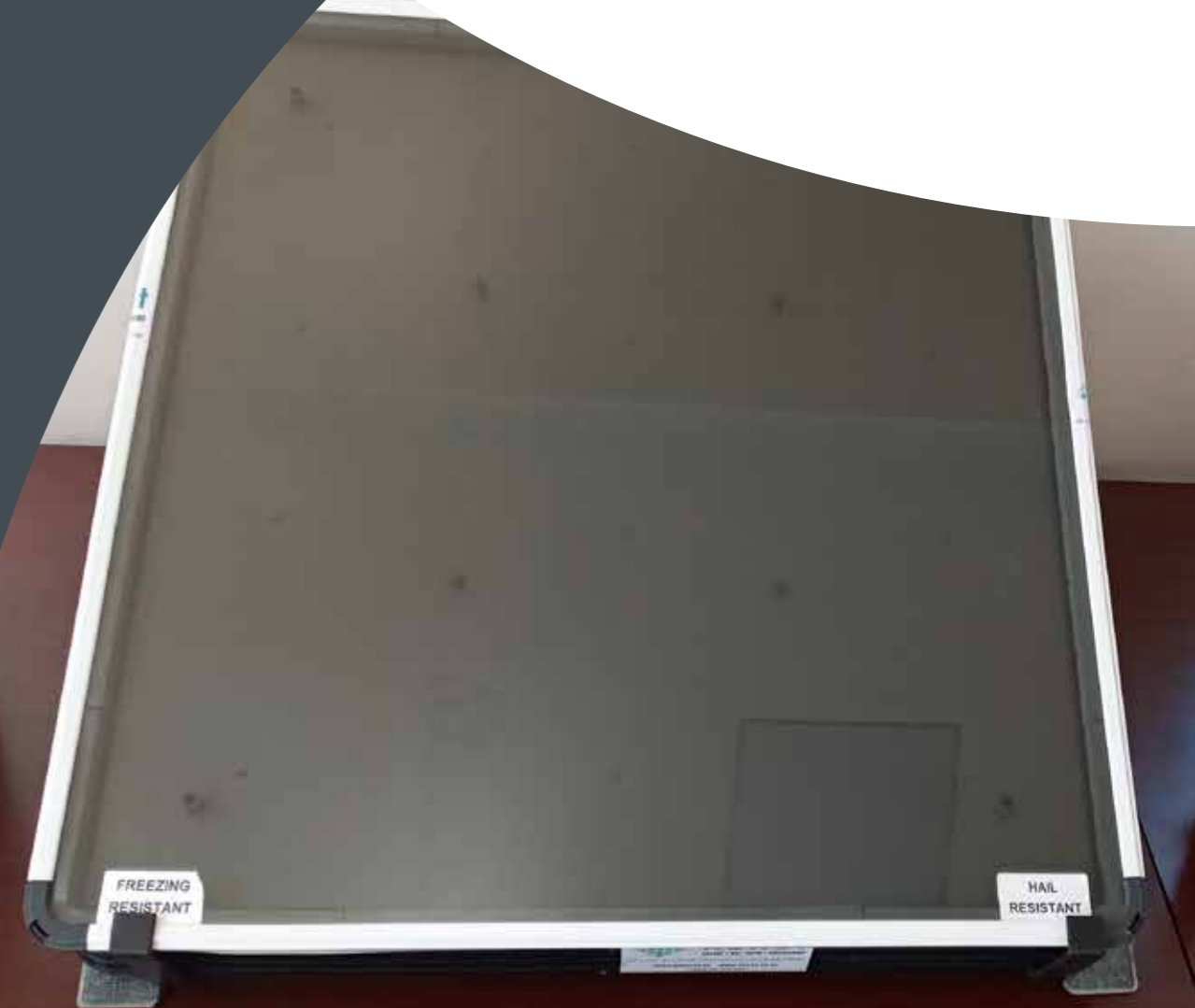
Solo Plasma is an integrated solar water heater, combining the tank and collector into one unit.

Dimensions:	1190 x 1160 x 155mm
Weight:	32Kg
Collector Aperture area:	2.6 sq.m.
Water Pressure:	High Pressure 300Kpa.
Type of tank:	Pressurized Polypropylene, integral with collector
Type of system:	Direct, freeze resistant and frost resistant
	Freeze resistant to SANS 1307-4.11.3
	Hail resistant to SANS 1307-4.11.2 constructed in solid sheet form and secured so as to resist an upward force of not less than 200 N.
	Pulsation resistant to SANS 1307-4.11.4
	Rain penetration to SANS 1307-4.11.1
	Stagnation resistant to SANS 1307-5.2
Q factor:	9.883 to SANS 6211-1.5.5

Complies with SABS standards SANS 151, SANS 1307 and SANS 6211.

Complies with safety standards of SANS 60335-2-21

Certified with SABS mark.





Auto Milking Pump



Few facts on the milking pump

- A simple technology designed to help farmers sustain efficiently.
- The milking machine can produce 40 liters of milk in less than 6 to 10 minutes generating more produce in less time.
- It comes with a pump capacity of 200lts/min.
- The pump has all the related sensors
- At only 47kgs, it is not only user friendly but also mobile and convenient to maneuver.
- Protects the animals from infections caused from manual milking
- Various sizes of containers
- Optional double armed milking machine

Why farmers need this?

- Higher efficiency means more milk = high revenue
- Increases milk productivity when used over time.
- Reduces infection and down time as the unit is totally sanitized
- Allowed the farmers more time to do other things as reduces significantly the milking time

Experience

Having catered over 40 machines to several farmers and individuals we look forward to covering a lot more farmers to help self sustainability.

Movie Link

<https://m.youtube.com/watch?v=n3dgGPETv3M>



Other Keilot Solutions

- Solar mini grids
- Solar farms
- Solar water pump for agriculture
- Irrigation systems
- Dislination systems

Solar Farms



Solar Water Pump for agriculture



Irrigation Systems



Solar Mini grids





Business proposals :

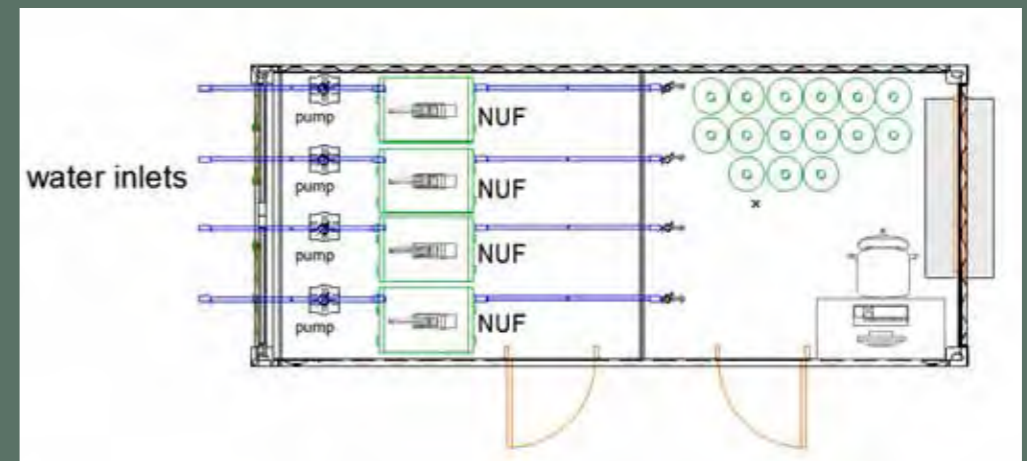
Drinking water production & Fertiliser production

For the business oriented people between us Keilot offers 2 solutions

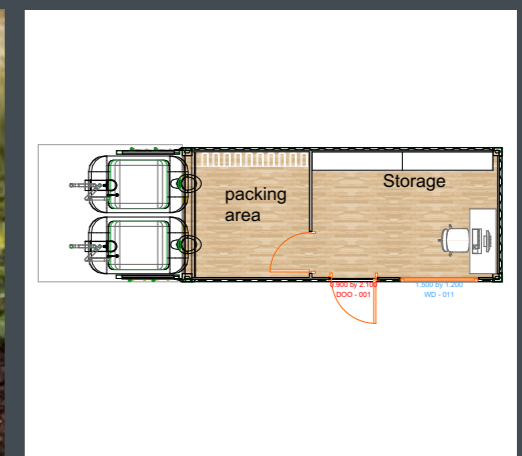
- 1. The drinking water making facility** - you can generate more than 2000 ltrs of drinking water per day with a bottling areas and a service area. All the production can be metered for commercial purposes
- 2. The fertiliser production facility** - you can generate more than 250 Ltrs of agriculture fertiliser per day and sell.



Drinking water making facility



Fertiliser production facility





The eco house (off-grid)

The special design of our eco house is an operation and maintenance free house design to support off grid locations.

We have 2 designs

- An 18 Sqm 20 f unit for a family of parents and 2 children.
- A 60 Sqm house for parents and 4-5 children including spacious common areas.

The house is equipped with the 4 main elements that the family will need

- 1 Free cooking gas for clean cooking through our Home Biogas unit
- 2 Water purification system in order to allow clean water for drinking through our NUF 250 system
- 3 Water solar heater to allow good sanitisation of hot showers for the family
- 4 Solar PV solution for phone charging, and light (additional components are available on request)



One of the United Nations Millennium Sustainable Development Goals (SDG11) aims to make cities and human settlements inclusive, safe, resilient, and sustainable by 2030.

It is in the same approach that we have designed a completely self-reliant off-grid eco-village that is built with used shipping containers and is fitted with the latest green energy systems. The Eco-Village is consciously designed through locally owned participatory processes in all four dimensions of sustainability (social, culture, ecology, and economy) to regenerate social and natural environments.

The eco village is suitable for individuals, projects, organizations, and international entities looking to run projects in an environment that is completely sustainable. It can hold six family members. Each unit has a small farm that grows crops for food.

Features

Container Technology

The Eco-Village is built using the latest container fabrication technology and provides convenience with its electrical and water installation, heat, and sound insulation, making the units functional all seasons.

Biogas Systems

The Eco-Village is fitted with a Home Biogas System that turns waste into clean energy. The system bacteria naturally breakdown the organic

matter into two outstanding by-products: cooking gas and fertilizer. The organic fertilizer is used to grow healthy kitchen garden crops.

Water Filtration System

The eco-village has a clean water maker; Nuf Filtration, which purifies water from any source into clean and healthy drinking water. The technology is based on a worldwide patent in water treatment. Ultra-filtration filters at 3.3nm nominal filtration rate. Any water source or lake water (*except saltwater and chemicals such as near mines) can be treated to purify most pathogens, parasites, bacteria, suspended solids, most of the organic matters and most viruses.

Solar Water Heater

It also comes with an integrated solar water heater that combines a water tank and collector into one unit. Our patented SOLO-Plasma integrated solar water geyser is unlike any solar geyser found in the world. Fully customizable to any existing plumbing.

Solar Power Systems

The Eco-Village is fitted with a solar power system that only needs a few hours of sun to power lamps, computers, fans, TVs and other small electronic appliances and devices like elect mosquito repellent.



Team Work





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