



SUN BUCKETS AFRICA LTD

COMPANY PROFILE

*“Cooking with the sun even after sunset”
The high temperature, portable, storable solar energy cookstove*



About us

Our Company

Sun Buckets Africa is a social enterprise incorporated in Kenya as a renewable energy company. We are a subsidiary of Sun Buckets Inc registered in the USA as a solar cooking company, with offices in India, Kenya, Ivory Coast and other countries. We manufacture solar cookers with retained heat technology known as "Sun Buckets" which are charged with parabolic dishes in the sun. They retain heat and are used to cook indoors even after sunset and are one of the cleanest cookers available in the market today.

VISION

Sun Buckets Mission is to provide high-quality well-designed solar cooking solution that cooks even at night (after sunset) and that produce zero emissions.

MISSION

Make available to everyone in the world, high-quality, well-designed, affordable solar cooking technology that is clean, effective, reliable and sustainable, to save our environment, improve health outcomes, combat climate change and help families save on the cost of cooking fuels over time.





THE PROBLEM

More than 3 billion people cook with solid fuels like wood, charcoal, and animal waste. This leads to over 4 million premature deaths per year. Exposure to cooking pollutant is the 4th leading killer globally and impact is highest amongst women and children. Environmental degradation and risk to personal safety during fuel collection are challenges also associated with using fossil fuel. Collecting fuel also represents lost opportunity for many among the energy impoverished, particularly women, while purchasing fuel creates financial hardships.

RACE AGAINST CLIMATE CHANGE

Suddenly the world has woken up and discovered that we are in a race against the climate change clock - and we are not just talking about the clock counting down to net zero - we are talking about the fact that there are billions of lives at stake.

Zero hunger is one of the first on the list of UN Sustainable Development Goals to be achieved by 2030. Imagine not having enough to eat...And this is not that we don't have enough food to feed the planet - so many people live off the grid that they can't even cook the food that they have access to!

"Our dependence on fossil fuel amounts to global pyromania and the only fire extinguisher we have at our disposal is Renewable Energy." Herman Scheer.



THE COOKING AND LIGHTING CRISIS

So, what do such people do? They are dependent on "Dirty Fuel" for cooking and lighting - charcoal, cow dung, firewood, propane, kerosene and sometimes risking lives to collect the firewood from forests - and it's 25-50% of a family's annual income - which feeds this cycle of poverty, pollution, health risks and unsustainable life style. This in turn feeds the "Cooking and Lighting crisis" - where more than 3 billion people globally use these solid cooking fuels which lead to 4 million deaths annually. Research shows that it is also the leading cause of death for children under 5, and the REAL crisis on a global level is that it accounts for 25% of carbon emissions and deforestation.



THE SOLUTION - The Sun Buckets

To Solve a problem of this magnitude - sometimes it's the simplest of solutions - and requires harnessing the resources we already have at our disposal. Solar energy is a massive market of \$3.7B. But let's go even simpler. There are places on earth where there is sunshine all year round.

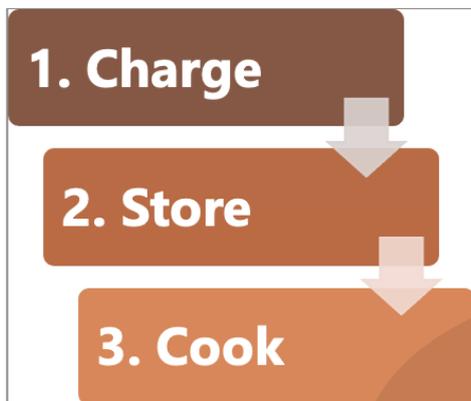
What if you could simply capture the sun in a bucket, and take a scoop of it home to cook for your family that night? We could feed more people, increase savings on energy, reduce energy poverty, and increase income for families which in turn contribute to improved living standards

WELCOME TO THE SUN BUCKET TECHNOLOGY

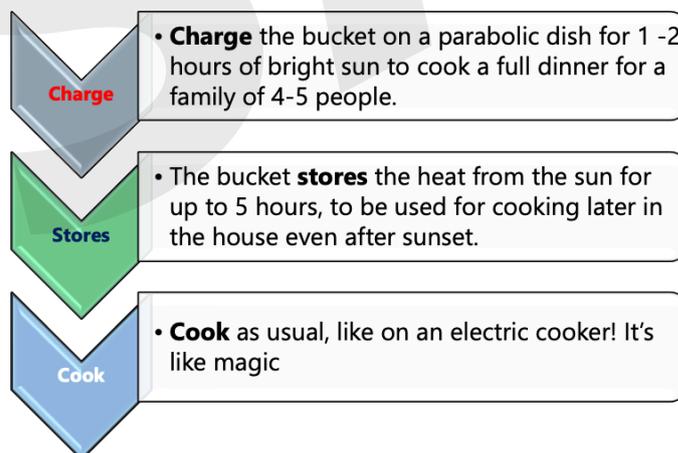
The Sun Bucket is a thermal storage unit capturing and storing the heat of the sun, for cooking in the security of your own home – day or night. There are 3 parts to the process of cooking with the Sun Buckets:

The uniqueness of our technology is the ability to cook entirely with energy from the sun. It does not require any fuel and has zero emissions.

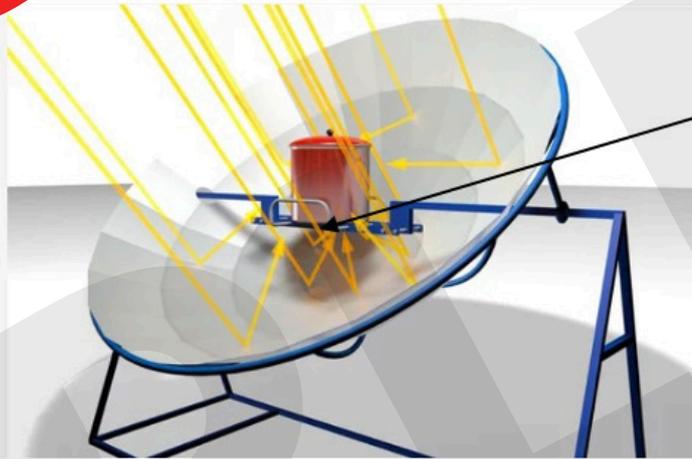
The initial R&D for Sun Buckets was done by our university-affiliated team with support from the Institute for Sustainability, Energy, and the Environment at the University of Illinois at Urbana-Champaign.



How the Sun Buckets work



COOK WITH The Sun, Even At Night.



The parabolic mirrors concentrate the rays of the sun to produce high temperatures needed for cooking. These do not require any fuel and have zero emissions.

*Cook day or night, indoors or out.
The only stove that stores sun's energy as thermal energy.*

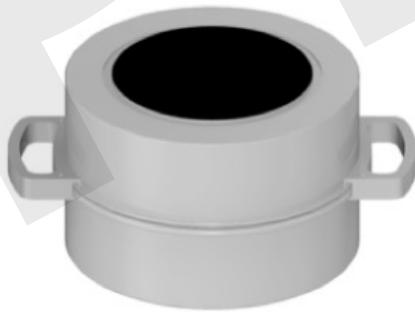
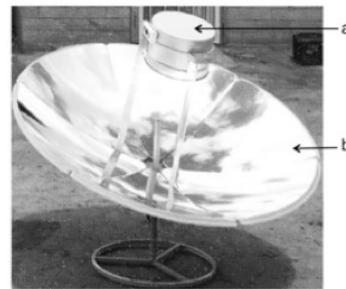


Figure 1. Sun Bucket Close up- The black circular disk serves as a cooktop during cooking.



Sun Buckets in charging mode in the sun. a) is the Sun Bucket inverted and mounted and b) the parabolic dish.

Heating: Sun Buckets are heated with concentrated sunlight using a parabolic reflector dish. Heating nominally requires 2 hours, with the exact time varying depending on conditions.

Storing: After heating the Sun Bucket to 350°C, it is removed from the heating system and covered. Sun Buckets are fully insulated and the outer shell is cool to the touch. Energy can be stored for several hours, allowing collection of energy during the day that can be used for cooking that evening. Sun Buckets, Inc. is also developing longer-term storage innovations to enable storage for use on cloudy days, and even during lengthy rainy seasons. We ultimately aim to provide energy year-round in most locations.

Cooking: When one is ready to cook, they simply remove the cover, and use the cooktop, like with any other stove. Sun Buckets facilitate nearly every cooking style in ways that mimic traditional cooking customs and the use of fire. One can cook for 1-2 hours, depending upon the level of energy demanded by the cooking task. For larger quantities of food, two or more Sun Buckets may be needed.

Energy transfers as heat into the sealed bucket. After the inside is hot, the container is removed from the collection system and the insulated cover is replaced. The outside is cool to the touch, even when the inside is 400°C. To cook, the cover is removed, and the circular face is used as a cooking surface (Figure 1), like a hot plate or heating element on a stove or in an oven. There is no electricity, batteries, electronics, or moving parts.



H4G-150 SHS BUNDLE

H4G 150 Package comes with:

- 32" LED SV32 TV
- 62 TV and 19 Radio channels with Zuku Satellite TV
- 5 Powerful Solar Lights
- Mobile Phone Charging
- Powerful Portable Radio
- Powerful torch & 60W Solar Panel



SUN BUCKETS AFRICA LIMITED | PO BOX 53320 - 00200 NAIROBI, KENYA
 TEL: +254 711552524, +254 799471251 | info@sunbuckets-africa.com
 www.sunbuckets-africa.com



TV
 RADIO
 ENJOYING

SUN BUCKETS COOKER AND H4G-150 SHS BUNDLE

Sun Buckets and H4G 150 Package comes with:

- Sun Buckets Solar Cooker with retained heat technology
- 32" LED SV32 TV
- 62 TV and 19 Radio channels with Zuku Satellite TV
- 5 Powerful Solar Lights
- Mobile Phone Charging
- Powerful Portable Radio
- Powerful torch & 60W Solar Panel



SUN BUCKETS AFRICA LIMITED | PO BOX 53320 - 00200 NAIROBI, KENYA
 TEL: +254 711552524, +254 799471251 | info@sunbuckets-africa.com
 www.sunbuckets-africa.com

The Sun Buckets Solar Home System Bundle (SHG) Price

The Sun Buckets Clean Energy Bundle (CEB) Price

EASY PAYMENTS

Payment is done using a flexible method through PAYGO system which where users are free to choose a payment method that suits their pockets. They can pay on a daily basis, weekly or monthly basis. This increases affordability and accessibility of the high-quality Sun Buckets CEBs and ensures that any member of the society is able to purchase and own the Sun Buckets CEB, which provides clean energy for both cooking and lighting and therefore empower them to live in a clean environment, reduce environmental degradation, save costs and improve health outcomes.

SUN BUCKETS SOLAR HOME SYSTEMS (SHS)

The H4G-150 Solar Home System is a component of the CEB comprised of 5 Powerful Solar Lights which can light-up up to five rooms in the house. It's a high quality and Lighting Global (Verasol) quality certified complete with a 32" LED solar TV with 62 TV and 19 Radio channels and a Satellite dish and decoder, Mobile Phone Charging, a powerful portable radio, powerful torch and a 60W Solar Panel.

The SHS eliminates the use biomass fuel for lighting which comes with harmful catastrophic environmental and health impact to the entire household especially children. It also provides an opportunity for school going children to study and do their homework in a clean environment, provides entertainment through the TV and keeping up-to-date with news through both the TV and the radio.



SALES AND DEMAND

More than 200 Units of CEBs Sold in Kenya; Over 3,000 units ordered and More interest from Energy Companies & Distributors across Africa.

THE SUN BUCKETS SOLAR HOME SYSTEM BUNDLE PRICE

To increase affordability and reach to the most vulnerable and low-income communities in Kenya, in Africa, Asia and Latin America. The Sun Buckets is sold as a Clean Energy Bundle (CEB) with both cooking and lighting energy as well as an entertainment unit which include:

1. Sun Buckets Solar Cooker with retained heat technology
2. A Solar Home System with 5 Powerful Solar Lights
3. A 32" LED TV with 62 TV and 19 Radio channels and a Satellite TV
4. Mobile Phone Charging
5. Powerful Portable Radio
6. Powerful torch & 60W Solar Panel



Firewood in Kakuma is most challenging need as default energy source: Quabata Bor



Our happy clients



CREATING
HOPE
IN CONFLICT:
A HUMANITARIAN
GRAND CHALLENGE



Bruce Elliott-Litchfield
Founder

*“Cooking with the sun
even after sunset”
The high temperature,
portable, storable solar
energy cookstove*

THE TEAM



PARTNERS



Matthew Alonso
Chief Technical Officer



Joe Bradley
Chief Financial Officer



Sixtus Odumbe
Director, Sun
Buckets Africa



Rubina Adhiambo
Deputy Country Director/
Programs Manager, Kenya



Barrack Kodeko Oriwo
Projects Coordinator



John Karanja,
Sales Manager, Kakuma,
Turkana



Olivier Abisi
Sales Agents Team leader

Thank you for staying with us

*“Cooking with the sun even after sunset”
The high temperature, portable, storable solar energy cookstove*

GET INTOUCH



Sun Buckets

Sun Buckets Africa Limited.

1st Floor, Pili Trade Center, Opp. Hilton Garden Inn, Mombasa Road.

P.O Box 53320 - 00200 Nairobi, Kenya,

Tel : +254 711 552524, +254 788471251, +25420 2156351

info@sunbuckets-africa.com

www.sunbuckets-africa.com
