BioLite

WE'RE ON A MISSION
TO BRING ENERGY EVERYWHERE

☀ LIGHT   8

🔥 COOK   20

Energy On A Mission

Half the planet lives in energy poverty lacking safe, affordable, and reliable ways to cook, charge, and light their lives. Three billion people still cook over smoky open fires every day and spend disproportionate amounts of income lighting their homes and charging their mobile phones.

BioLite is on a mission to address energy poverty head-on with an ecosystem of products that can transform an off-grid home. Families can access solar lighting, charging, and clean cooking, dramatically improving daily routines by harnessing the energy around them.

Through our model of **Parallel Innovation,** BioLite leverages experience from both outdoor recreation and emerging markets to build a world-class team of engineers, designers, and operators who work daily to deliver value, efficiency, and impact to our customers and partners all over the globe.

Impact By The Numbers

778,091
People impacted

840,068,332
Wh of electricity generated

295,407
Tonnes of CO2 offset

Proudly Carbon Neutral Since 2012. Proudly Calling Others To Act Today.

BioLite is the co-creator of Climate Neutral, an independent non-profit with a mission to address global climate change by recruiting and enabling companies to measure, reduce, and offset 100% of their carbon emissions immediately. Climate Neutral certifies brands using a rigorous but simple process, and supports certified companies through the use of the "Climate Neutral Certified" logo.

To learn more about BioLite's own carbon footprinting process, download our 2018 Impact Report:

BioLiteEnergy.com/Impact2018

To learn more about Climate Neutral, visit:

ClimateNeutral.org

CLIMATE
NEUTRAL
CERTIFIED

At Home

BioLite is proud to offer a suite of advanced energy products that serve the needs of families living off-grid. Our line of expandable **SolarHome** systems bring multi-room lighting, charging, and entertainment to the home, all from the power of the sun. Our clean-burning **cookstoves** dramatically improve solid-fuel combustion while delivering a high-power cooking experience with maximum fuel efficiency and affordability.

Off Grid

Across our global operations, BioLite engages two distinct customer segments: off-grid households in emerging markets and outdoor recreation users seeking self-reliant cooking, lighting, and charging. Using a unique business model called **Parallel Innovation**, our team develops core energy technologies that are applicable to both audiences and then turns them into customer-centric products optimized for each market.

**Climbing The Energy Ladder
With BioLite Solar Lighting**

Replacing inefficient, expensive kerosene is just the start; with BioLite's lineup of affordable, expandable solar light & power solutions, families can access lighting, charging, and entertainment solutions that transform the home.

From personal task lights to large-capacity panels and storage, BioLite offers a range of options to meet the growing energy needs for a productive and connected life.

☼ LIGHT

ENTRY SOLAR HOME SYSTEMS

SolarHome 620+

SolarHome 1240

APPLIANCE SOLAR HOME SYSTEMS

SolarHome 4000

SolarHome 5000

SolarHome 7000

SolarHome 10000

LANTERNS

SunLight 100

Multi Light

The BioLite SolarHome Family

Energy That Grows With You

From just a few watts that light a room to robust power storage to run multiple appliances, BioLite's SolarHome solutions enable users to easily add to their system as household energy needs increase.

Designed as a modular solution, upgrades integrate seamlessly with existing units, allowing families to expand their power capacity through an affordable, incremental experience.

BioLite   angaza   solaris offgrid

	ENTRY SYSTEMS		APPLIANCE SYSTEMS			
	SolarHome 620+	**SolarHome 1240**	**SolarHome 4000**	**SolarHome 5000**	**SolarHome 7000**	**SolarHome 10000**
SOLAR PANEL	6 Watt	12 Watt	40 Watt	50 Watt	70 Watt	100 Watt
BATTERY	20 Wh	40 Wh	115 Wh	115 Wh	156 Wh	230 Wh
TELEVISION	⊖	⊖	19"	24"	32"	32"
HANGING LIGHTS & MOTION SENSOR	**Hanging Lights 3-Pack (INCLUDED)** (2) 120 Lm Hanging Lights (1) 120 Lm Motion Sensor Light	**Hanging Lights 3-Pack (INCLUDED)** (2) 120 Lm Hanging Lights (1) 120 Lm Motion Sensor Light	**Hanging Lights 4-Pack (SOLD SEPARATELY)** (3) 200 Lm Hanging Lights (1) 200 Lm Motion Sensor Light	**Hanging Lights 4-Pack (SOLD SEPARATELY)** (3) 200 Lm Hanging Lights (1) 200 Lm Motion Sensor Light	**Hanging Lights 4-Pack (SOLD SEPARATELY)** (3) 200 Lm Hanging Lights (1) 200 Lm Motion Sensor Light	**Hanging Lights 4-Pack (SOLD SEPARATELY)** (3) 200 Lm Hanging Lights (1) 200 Lm Motion Sensor Light
ADD-ON ACCESSORIES (SOLD SEPARATELY)	• BioLite Torch	• BioLite Torch	• Hanging Lights 4-Pack • BioLite Torch • BioLite Radio	• Hanging Lights 4-Pack • BioLite Torch • BioLite Radio	• Hanging Lights 4-Pack • BioLite Fan • BioLite Torch • BioLite Radio	• Hanging Lights 4-Pack • BioLite Fan • BioLite Refrigerator • BioLite Torch • BioLite Radio
LCD DISPLAY FOR REAL-TIME FEEDBACK	✔	✔	✔	✔	✔	✔
BUILT IN RADIO	✔	✔	⊖	⊖	⊖	⊖
COMPATIBLE WITH ANGAZA, SOLARIS & BIOPAY PAYG	✔	✔	✔	✔	✔	✔

## SolarHome 620+

The improved BioLite SolarHome 620+ brings modern lighting, charging, and entertainment to the off-grid home. Featuring 25% more run time via improved LED efficiency, the system's three hanging lights provide overhead multi-room lighting, each with their own control switch – and one with an included motion-activated security setting. The Control Box houses an integrated 4th light as well as a built-in FM radio, MP3 player, and two USB ports to charge mobile phones and other devices.

- **PAYG Enabled**
- **Expandable Power**
- **Radio + MP3 Player**
- **One Motion Light For Security**

TECH SPECS

RUN TIMES
4 LIGHTS ON LOW
17.5 HOURS
-- OR --
4 LIGHTS ON MED
8.75 HOURS
-- OR --
4 LIGHTS ON HIGH
5.5 HOURS

BATTERY
20 Wh, LiFePO4

SOLAR PANEL
6 W Output

EXPANDABILITY
Solar Expansion Up to 100 W;
Battery Storage Up To 230 Wh

CABLE LENGTH
HANGING LIGHTS
6.5m
SOLAR PANEL
5.5m

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

LUMENS
HANGING LIGHTS
120 Lm each

OUTPUTS
USB Charge Out x2
DIN Port
Light Port x2

WARRANTY
2 Years

IN THE BOX
Control Box
2 Hanging Lights
1 Security Light
1 Solar Panel
USB Adapter
Wall Screws

LIGHTING GLOBAL

SolarHome 1240

With a 12-watt solar panel and 40 watt hour battery storage, the SolarHome1240 features the same lighting, charging, and entertainment capabilities as the 620, but with even longer run times thanks to double the power.

- **PAYG Enabled**
- **Expandable Power**
- **Radio + MP3 Player**
- **One Motion Light For Security**

TECH SPECS

RUN TIMES
4 LIGHTS ON LOW
35 HOURS
-- OR --
4 LIGHTS ON MED
17.5 HOURS
-- OR --
4 LIGHTS ON HIGH
11 HOURS

BATTERY
40 Wh, LiFePO4

SOLAR PANEL
12 W Output

EXPANDABILITY
Solar Expansion Up to 100W;
Battery Storage Up To 230Wh

LUMENS
HANGING LIGHTS
120 Lm each

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

WARRANTY
2 Years

LIGHTING GLOBAL

Expandable Power

The BioLite SolarHome 620+ and 1240 are designed to grow as the power needs of a household increase. Upgrades integrate seamlessly with existing units, allowing families to expand their power capacity – up to 230 watt hours – through an affordable, incremental experience.

SolarHome 5000 — New In 2020

A transformative leap up the energy ladder, the SolarHome 5000 delivers high-capacity power generation and storage for the modern home. Featuring a 50 watt solar panel and 115 watt hour control box, users can charge mobile devices and run the included television for on-demand connectivity and entertainment. Putting households in control of their energy, the system can be paired with BioLite hanging lights and other ecosystem appliances to power the needs of daily life.

- **PAYG Enabled**
- **Expandable Up To 100W Solar**
- **24" TV With USB Video, HD Broadcast and Satellite**
- **Ready For Add-On Lights and Appliances**

Optional Add-On: Hanging Lights 200 Lm 4-Pack
(3) 200 Lm Hanging Lights
(1) 200 Lm Motion Sensor Light
800 TOTAL LUMENS

Expandable Power
The SolarHome 5000 can be connected to SolarHome 620, 620+ or 1240 to provide up to 230 Wh of battery storage.

TECH SPECS

RUN TIMES

24" TELEVISION
11 HOURS

-- OR --

4 LIGHTS ON LOW (160 LM)
80 HOURS

-- OR --

4 LIGHTS ON HIGH (800 LM)
16 HOURS

-- OR --

PHONE CHARGES
8 CHARGES

BATTERY
115 Wh, LI-NMC

SOLAR PANEL
50 W Output

EXPANDABILITY
Solar Expansion Up to 100 W; Battery Storage Up To 230 Wh

ADD ONS (OPTIONAL)
Hanging Lights 200 Lm 4-Pack
BioLite Fan
BioLite Torch
BioLite Radio

LUMENS
HANGING LIGHTS
200 Lm each

APPLIANCE POWER PORTS
2X 12V with PAYGO authentication

TELEVISION SPECIFICATION
24" HD Digital TV - DVB-S2 Satellite, DVB-T2/C Terrestrial, USB Media, 2x HDMI, Component video, CAM/CI+ card

RESERVE POWER MODE
1600 lm-hour of lighting, configurable ON/OFF

WARRANTY
2 Years

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

LIGHTING GLOBAL

SolarHome 4000 — Coming In 2020

- **PAYG Enabled**
- **Expandable Up To 100W Solar**
- **19" TV With USB Video, HD Broadcast and Satellite**
- **Ready For Add-On Lights and Appliances**

TECH SPECS

BATTERY
115 Wh

SOLAR PANEL
40 W Output

EXPANDABILITY
Solar Expansion Up to 100 W; Battery Storage Up To 230 Wh

APPLIANCE POWER PORTS
2X 12V with PAYGO authentication

ADD ONS (OPTIONAL)
Hanging Lights 200 Lm 4-Pack
BioLite Torch
BioLite Radio

WARRANTY
2 Years

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

SolarHome 7000 — Coming In 2020

- **PAYG Enabled**
- **Expandable Up To 100W Solar**
- **32" TV With USB Video, HD Broadcast and Satellite**
- **Compatible With BioLite Fan**

TECH SPECS

BATTERY
156 Wh

SOLAR PANEL
70 W Output

ADD ONS (OPTIONAL)
Hanging Lights 200 Lm 4-Pack
BioLite Fan
BioLite Torch
BioLite Radio

WARRANTY
2 Years

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

SolarHome 10000 — Coming In 2020

- **PAYG Enabled**
- **32" TV With USB Video, HD Broadcast and Satellite**
- **Compatible With BioLite Fan**
- **Compatible With BioLite Refrigerator**

TECH SPECS

BATTERY
230 Wh

SOLAR PANEL
100 W Output

ADD ONS (OPTIONAL)
Hanging Lights 200 Lm 4-Pack
BioLite Torch
BioLite Radio
BioLite Fan
BioLite Refrigerator

WARRANTY
2 Years

PAYG PLATFORMS
BioLite BioPay
Solaris PaygOps
Angaza Energy Hub

SolarHome Expansion Components | Customized Systems

For SolarHome configurations beyond our standard bundles, please contact the BioLite team for a custom quote. MOQs apply.

SOLAR PANELS

40 W Solar Panel
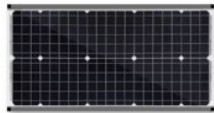
50 W Solar Panel
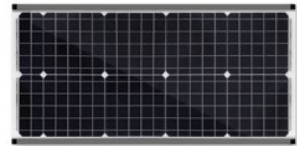
70 W Solar Panel
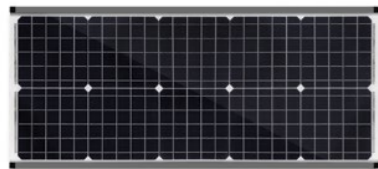
100 W Solar Panel

BATTERY BOX

115 Wh

156 Wh

230 Wh

TELEVISIONS

19" Television

24" Television

32" Television

APPLIANCES

Radio

Fan

Refrigerator

LIGHTS

Torch

Hanging Lights 4-Pack

Lantern Series

A durable and reliable personal task light, SunLight 100's integrated solar panel creates self-reliant recharging and maximizes efficiency through an integrated sundial and stand for optimal setup. Both the Multi Light and SunLight 100 can also be charged via micro USB from the SolarHome series.

SunLight 100

☀ **100 Lumens**

☀ **Integrated Solar Panel**

💟 **Colored LEDs**

Tech Specs

BATTERY	RUN TIME
750 mAh	3 Hours HIGH
	50 Hours LOW

Multi Light   BY ◆ecozoom

☀ **120 Lumens Per Light**

☀ **6 Watt Solar Panel**

🔋 **2200 mAh Battery Bank**

Tech Specs

RUN TIME (USED IN COMBINATION)
4 hours (HIGH), 8 hours (LOW)

SMART PHONE CHARGES
1 full charge

**BioLite Combustion:
Turn Fire Into Electricity**

The HomeStove generates electricity
from the flame via BioLite's patented
Direct Conduction Thermoelectric System,
enabling users to charge mobile phones
and LED lights via a USB port. Bundled with
mobile adapters and BioLite's FlexLight, the
HomeStove's selling proposition is complete,
clean home
energy for low-
income, off-grid
households.

🔥 COOK

WOOD STOVES

HomeStove

CHARCOAL STOVES

JikoMalkia

Mama Yao

Jiko Bora

Jiko Fresh
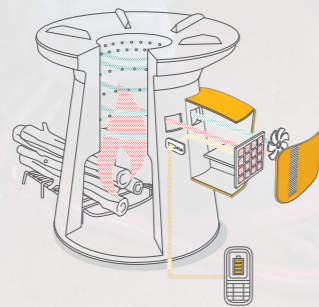
HomeStove

Burn Wood, Cook Meals & Produce Electricity

The BioLite HomeStove is the world's only ultra-clean, electricity generating biomass cookstove. The HomeStove provides gas-like cooking, reduces smoke emissions by 90% and fuel consumption by 50%. The HomeStove co-generates electricity from the flame via BioLite's patented Direct Conduction Thermoelectric System, enabling users to charge mobile phones and LED lights via a USB port. Bundled with mobile adapters and BioLite's FlexLight, the HomeStove's selling proposition is complete, clean home energy for low-income, off-grid households.

- Light Included
- Charges Phones
- 50% Less Wood Consumed
- 90% Smoke Reduction

TECH SPECS

FUEL
Renewable biomass only
(wood, crop waste, dung)

BOIL TIME
5 min = 1 liter of water
18 min = 5 liters of water

COMPATIBLE DEVICES
USB-chargeable devices

WEIGHT
8.6 kg

IN THE BOX
HomeStove, fuel tray, mobile phone
charging adapter, FlexLight LED light

CHARGE TIME
20 min = 80 min of talk time
120 min of charging = full battery charge

LUMENS (FOR LED LIGHT)
100 Lm (8x brighter than kerosene)

DIMENSIONS
25 x 31 cm

IWA ISO PERFORMANCE TIERS

Thermal Efficiency	30%	Tier 2
Carbon Monoxide	1.23 g/MJd	Tier 4
Particulate Matter	101 mg/MJd	Tier 3

JikoMalkia

Clean, High-Efficiency Charcoal Cooking

The BioLite JikoMalkia offers the highest fuel savings, greatest durability, and largest cooktop on the market. The typical consumer will save over $20 per month in fuel savings and benefit from a 75% reduction in smoke when compared to the average charcoal stove. The durable stainless steel construction and thoughtful design details make the JikoMalkia a reliable addition to any home.

- $20/Month in Fuel Savings
- Largest Cooktop On The Market
- Cleanest Charcoal Stove Available
- 75% Smoke Reduction

TECH SPECS

FUEL
Charcoal

WEIGHT
5.3 kg

COOKTOP DIAMETER
30 cm

DIMENSIONS
40.0 x 31.0 x 8.8 cm

IWA ISO PERFORMANCE TIERS

Thermal Efficiency	45%	Tier 3
Carbon Monoxide	4.3 g/MJd	Tier 4
Particulate Matter	86 mg/MJd	Tier 3

Mama Yao   BY ecozoom

- Secondary Air Flow Technology For Increased Thermal Efficiency
- Cast Iron Stovetop
- Saves 70% Of Charcoal Expenses

TECH SPECS

WEIGHT
5.8 kg

FUEL TYPE
Charcoal

DIMENSIONS
29.5 x 29.5 x 26.5 CM

Jiko Bora   BY ecozoom

- Clean Burning, Durable Stove
- Quick Cooking Times
- Cast Iron Stovetop
- Saves 70% Of Charcoal Expenses

TECH SPECS

WEIGHT
7.5 kg

FUEL TYPE
Charcoal

DIMENSIONS
29.5 x 29.5 x 24 CM

Jiko Fresh   BY ecozoom

- Durable, Budget-Friendly Stove
- Cast Iron Stovetop
- Saves 60% Of Charcoal Expenses

TECH SPECS

WEIGHT
6 kg

FUEL TYPE
Charcoal

DIMENSIONS
27.5 x 27.5 x 22.5 CM

GETTING IT OUT THERE

Designing and manufacturing our clean energy products is only part of the equation. BioLite also supports distribution partners in the field by providing product training support, marketing collateral, and comprehensive after-sales service.

Featured Partners

We work with experienced and capable partners to retail our clean energy products.

ONE ACRE FUND

FINCA

BaoBaB+

MWEZI

Bidhaa Sasa

YELLOW
Live Better

After Sales Service

BioLite supports customer satisfaction and long-term adoption through comprehensive after-sales services in conjunction with our partner channels.

2 Year Warranty
Customers are eligible for service and repair

Local Call Centers
Provide answers to questions over the phone

In-Home Service
Trained technicians travel to customers' homes to address product issues

Post Purchase Follow-Ups
We conduct customer surveys to ensure satisfaction