

Solar Stoves For School Cooking

By Justine Abuga



Challenges facing schools in Kenya & Africa



<https://insight.wfp.org/a-major-milestone-in-kenyas-school-meals-programme-b7fea5928b34>

Africa :

- **65M** students rely on school meals each year
- **7.5M tons** of firewood consumed annually
→ deforestation
- High cooking cost : **\$10K - \$30K** per school/year
- 1 school = **700 tonnes** CO2/year

Kenya :

- **1.6M** students in Kenya depend on these meals daily

Our Product (Overview)

Solar Panel



Inverter and Lithium Ion Battery



Lithium batteries and inverters





Award winning Stove

Cookstove for schools: Technical Specifications

Power Source

- Operates on solar energy or can be connected to the electric grid.
- Ensures continuous operation even during cloudy days.



Pot Sizes Available

- Standard sizes: 50L, 100L, 200L, 250L, 300L, and 600L.
- Custom sizes can be manufactured on request.



Smart Meter System

- Optimises boiler energy usage for maximum efficiency.
- Provides real-time data on energy consumption.
- Sends alerts for potential issues and maintenance needs.







Cookstove for schools: Food types & Cooking Modes

Modes:

- Steaming
- Frying
- Boiling

Food types:

UGALI



MANDAZI



GITHERI



RICE



CABBAGE



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Introducing
INSTITUTIONAL
PELLET STOVE



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Hybrid cooking



Emissionfy IoT Platform

Turning energy data into climate action.

True to the Mission!

Emissionfy

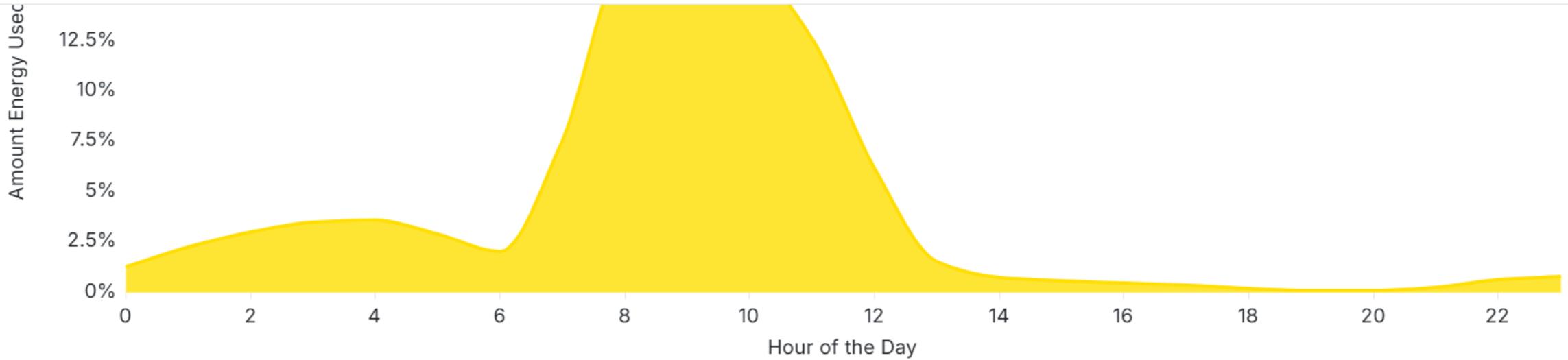
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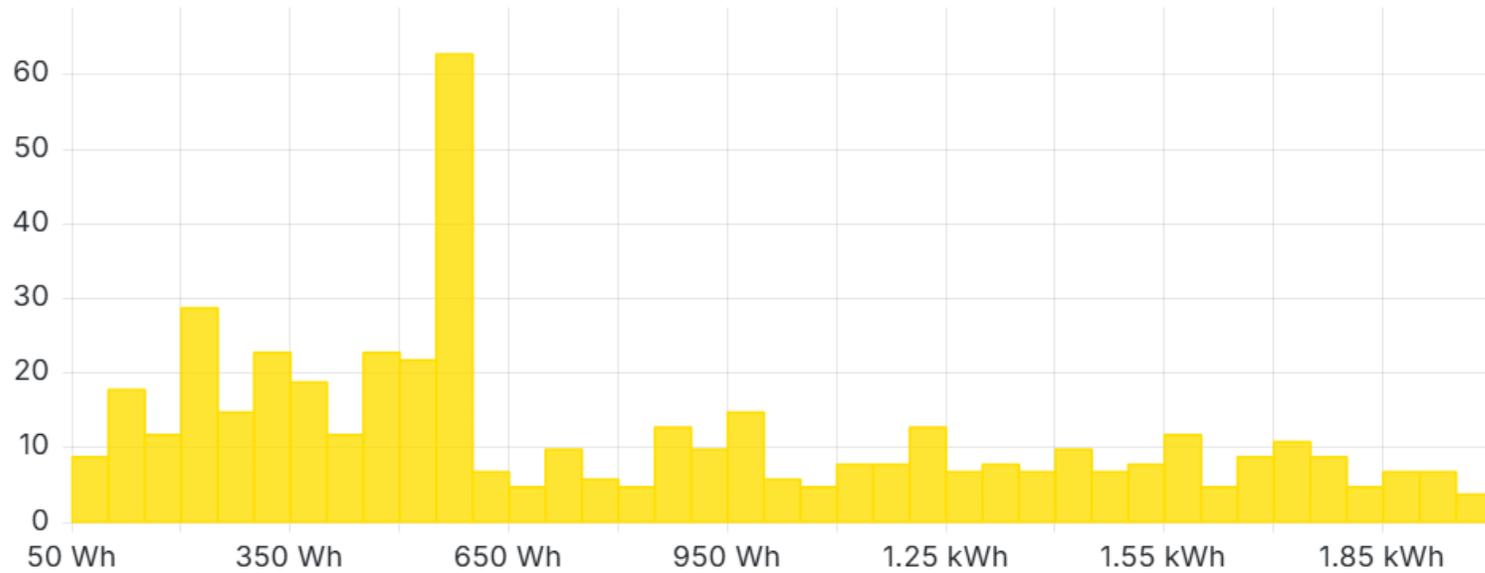
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Events Energy Distribution



Mean Event Energy

8.81 kWh

Mean Event Duration

2 hours

Our Locally manufactured at Kajiado, Kenya





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Making the Switch: The Deployment Handbook for Institutional E-Cookers

December 2025

Revenue Model : 1



Solar cooking stoves
\$25,000/unit

Public and
private
secondary
schools

Cash sale-70% Deposit

Customer acquisition costs= USD
1,000



Revenue Model : 2



Solar cooking stoves
\$25,000/unit

Cooking-as-a-service

As low as USD 3,000 per term
3 years to break even

Public and
private
secondary
schools

Profit margin= 30%
Customer acquisition costs= USD
1,000



Revenue Model : 3

Solar cooking stoves
\$25,000/unit

Public and
private
secondary
schools

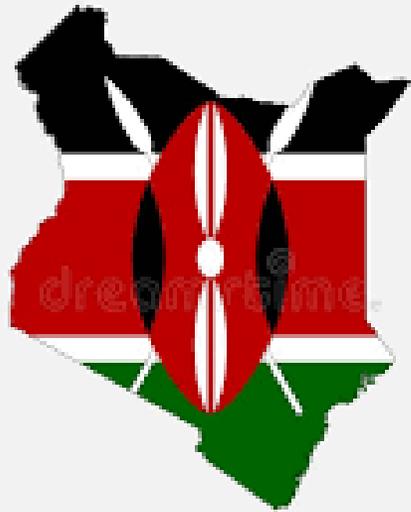
- **33.3% School Payment**
- **33.3% RBF/SUBSIDY**
- **33.3% Carbon Financing**



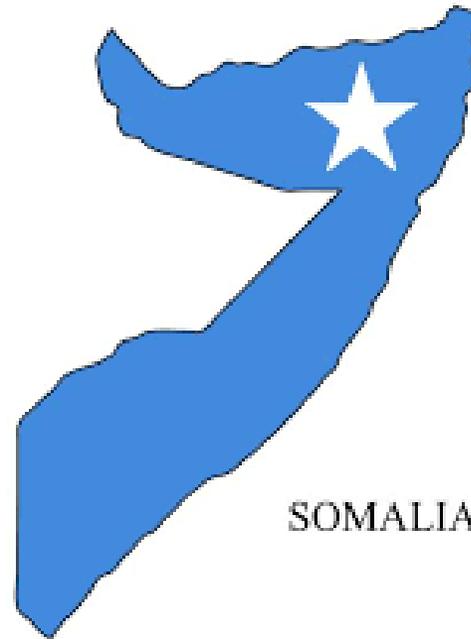
Customer acquisition costs= USD 1,000



Countries Of Operation



Kenya



SOMALIA



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