

# MOPPET

## Waste to Power: Moppet's Biogas Innovation



**SPREAD  
SMILES  
NOT  
WORRIES**

Spread Nutriblend



## **MOPPET FOODS - WASTE-TO-ENERGY FOR CIRCULAR FOOD PRODUCTION**

Moppet Foods is a women-led social enterprise transforming nutrition and food systems in Nigeria. Our mission is to fight malnutrition, empower smallholder farmers, and reduce environmental impact through circular, inclusive innovation.

### **THE BIOGAS SOLUTION: CLOSING THE LOOP AT MOPPET**

We aim to convert 100% of our organic production waste into clean biogas and biofertilizer, making Moppet one of Nigeria's first women-led food factories powered by its own waste. We currently generate 70kg of organic waste daily, expected to rise to 200kg by July 2025 with our factory expansion

### **BIOGAS APPLICATIONS:**

- Replace LPG used for boiling in production.
- Power small equipment via a biogas generator.
- Produce biofertilizer to support yield improvement for our partner farmers, replacing synthetic alternatives.

## PROJECTED IMPACT

| Metric                 | Projection  |
|------------------------|---|
| Organic Waste Utilized | 73 metric tons of organic waste processed annually                        |
| LPG Gas Replaced       | 10.95 metric tons of LPG gas replaced annually                            |
| Cost Saving            | \$10,950 saved per year on LPG cost                                       |
| Biofertilizer Produced | 62 tons/year  |
| Land Fertilized        | Fertilizes 7.8 hectares/year, boosting yields for 50+ smallholder farmers |
| Emissions Reduced      | 171.5 tons CO <sub>2</sub> e/year   |
| Job Created            | 4 roles   |
| Product cost Reduction | Reduced product cost by 15%   |
| SDG Addressed          | SDG 2, 7, 12, 13, and 15  |

MEALS FIT FOR A  
PRINCE AND  
A PRINCESS





## OUR ASK

We are seeking \$8,500 USD to:

- Procure and install a modular biogas digester (25m<sup>3</sup> capacity)
- Train factory staff on safe biogas operations
- Build a system for digestate distribution and storage
- Connect to a biogas-powered generator for selected factory equipment

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