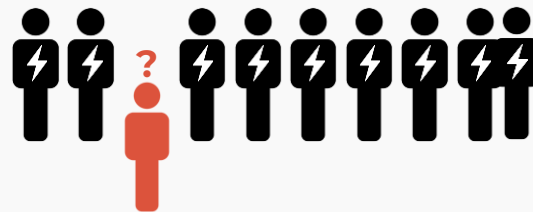


800 Million

people without access to electricity.

- The World Bank



That's **1/10** people cut off from modern living.

THE OFF-GRID LANDSCAPE



Grid extension



2030



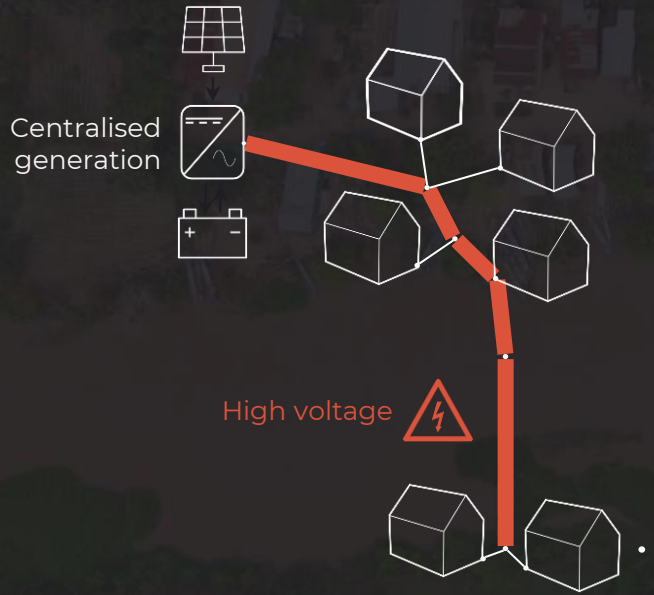
Prohibitively expensive to setup in isolated areas



Solar Home Systems
Insufficient power for productive use

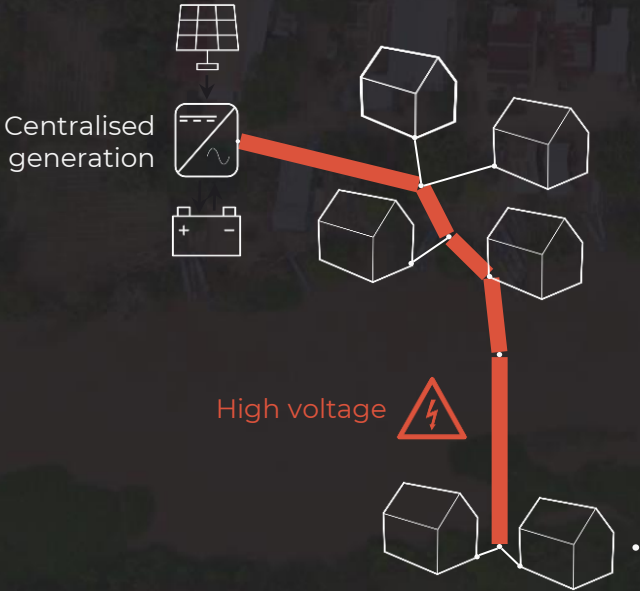
HOW DO MINI-GRIDS WORK?

Mini Grids

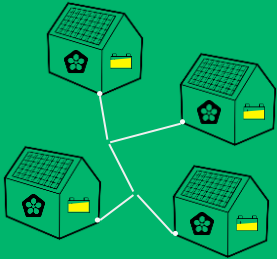


HOW DO MESH GRIDS WORK?

Mini Grids



OKRA Mesh Grids



✓ Generation and Storage at each point of consumption

✓ 50 VDC Transmission of excess power

✓ Modular Network Design can be implemented fast regardless of landscape topology

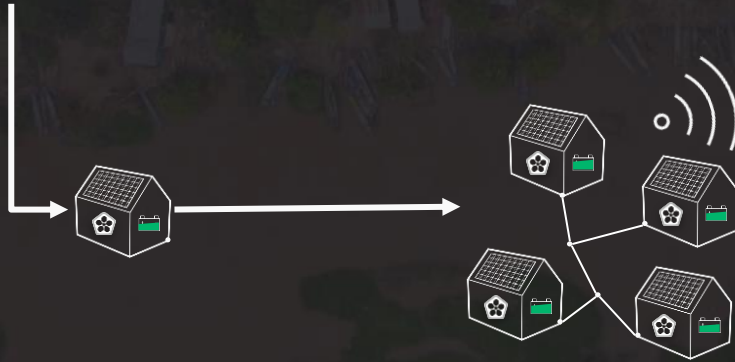
HOW OKRA WORKS



Okra Pod

Solar PV

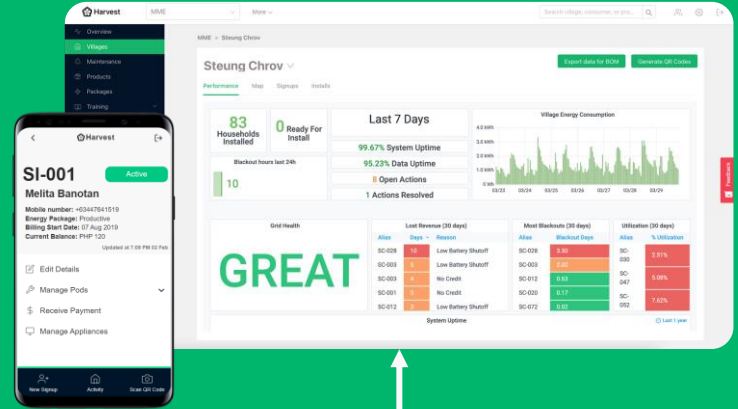
Batteries



Plug & play
standalone systems

Interconnected systems
share power

Okra Harvest SAAS



Mobile billing, remote monitoring &
asset management

SETUP COSTS **MESH GRIDS** vs. MINI GRIDS?

No Technical Network Design

No Land Leasing or Clearing

Faster electrification

>\$1.2k/hh

Proj Development

Cables, Poles

Inverters & BOS

Batteries & PV

<700/hh

Proj-Dev



Traditional



SETUP COSTS **MESH GRIDS** vs. MINI GRIDS?

>\$1.2k/hh


Proj
Develop
ment

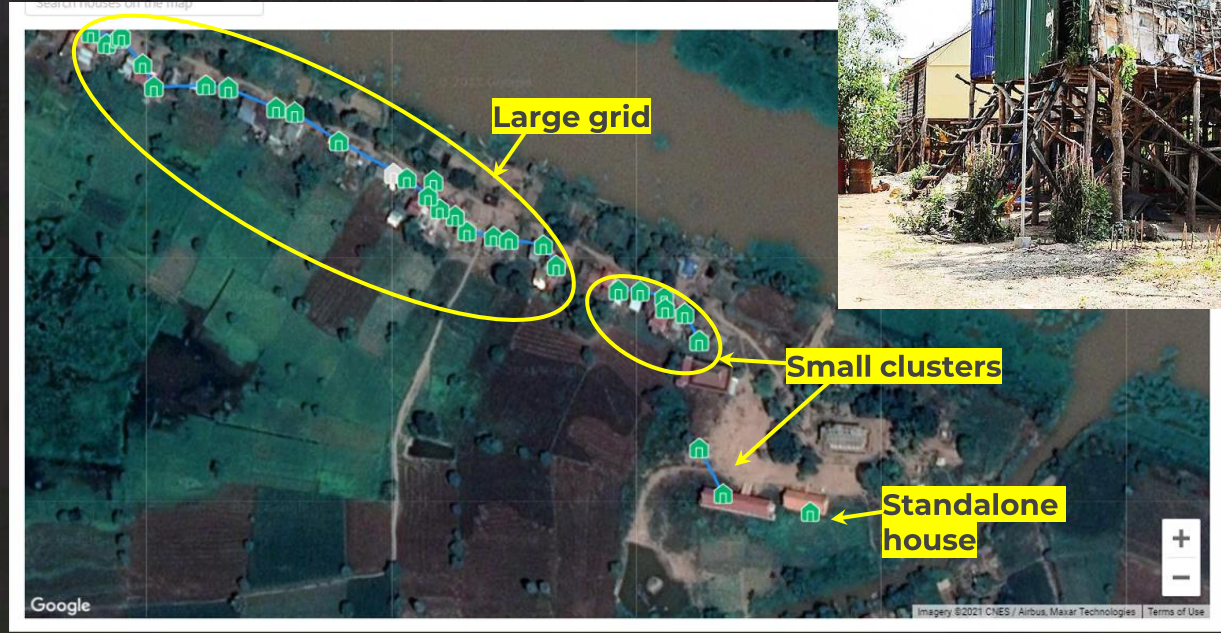
Cables,
Poles

Inverters
& BOS

Batteries
& PV

<700/hh
Proj-Dev

Traditional 



ANNUAL OPEX **MESH GRIDS** vs. MINI GRIDS?

Community safely maintains network

Improved Network Uptime

\$30-\$50/
connection

Staff & Logistics

\$15/
connection

Staff & Logistics

Equipment Replacement



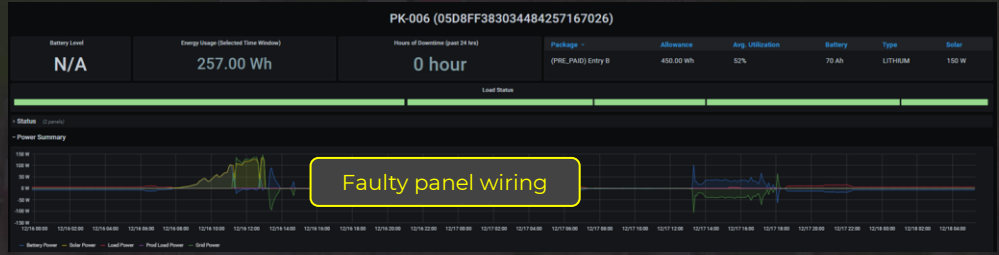
ANNUAL OPEX **MESH GRIDS** vs. MINI GRIDS?

\$30-\$50/
connection

Staff & Logistics

Staff & Logistics

Equipment Replacement



TD-002

Check System

Regular Blackouts.

4 days ago 📅

🔗 Details

Dismiss ▾

Action

TD-011

Increase Panel Capacity

Battery hasn't fully charged in 5 days, risk of battery damage.

4 days ago 📅

🔗 Details

Dismiss ▾

Action

HOW MESH GRIDS ELEVATE PROJECTS

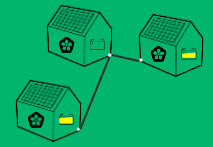
MORE POWER AVAILABILITY (1.2 kW)



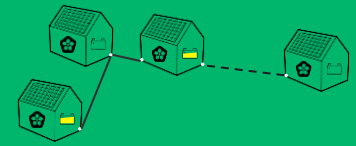
MODULAR MULTI-TOOL FOR ELECTRIFICATION



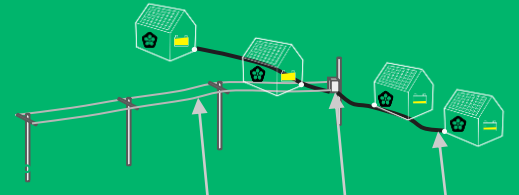
Households can be energized as standalone systems



Neighbouring households can be **interconnected into power-sharing mesh-grids**



Additional households, and capacity, can be added over time



LV AC distribution to clusters
AC/DC gateway
DC mesh grid wiring

HOW MESH GRIDS ELEVATE PROJECTS

FLEXIBLE PAYMENT MODELS (EaaS)

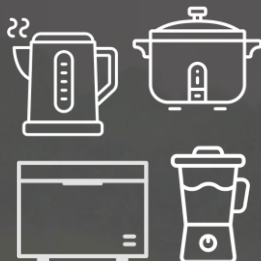
- ✓ Prepaid
- ✓ Postpaid
- ✓ Flat rate
- ✓ kWh rate
- ✓ Excess/Boost rates

The screenshot shows the Harvest MME web interface. The left sidebar contains navigation options: Overview, Villages, Maintenance, Products, Packages (highlighted), and Training. The main content area is titled 'MME > Packages' and displays a table of energy packages under the 'Energy' tab. The table has columns for Package Name, Consumers, Usage Limit, Daily Rate, and Boost Rate. Each row includes a 'Prepaid' button.

Package Name	Consumers	Usage Limit	Daily Rate	Boost Rate
Entry A	5	240 Wh	380/kWh	730/kWh
Entry B	50	450 Wh	450/kWh	730/kWh
General A	50	750 Wh	530/kWh	730/kWh
General B	36	1800 Wh	610/kWh	730/kWh

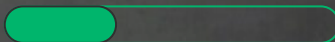
APPLIANCE LEASING (AaaS)

Bundle appliances with energy, and guarantee repayment while driving up revenues



Appliances

Rice cooker



98,000 KHR Owed

33% Paid Off



HOMER MICROGRID AND HYBRID POWER

9TH ANNUAL INTERNATIONAL

Our product

IoT - Grid
Automation



AI Enabled SAAS



- **\$6.5M - Series A** - Investment Round
- Recruiting Regional Sales Managers (Asia & Africa)
- Always excited to talk to Developers of Electrification Projects

Hit me up at otteh@okrasolar.com

Projects

HAITI

CAMBODIA

NIGERIA

INDONESIA

PHILIPPINES