

Village Energy Mesh

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VILLAGE ENERGY MESH - NGO Product Overview

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PROBLEM

600 million people in Sub-Saharan Africa have no electricity access.
Centralised grid extension costs \$2,000-\$5,000 per household.
Off-grid solar without trading leaves 40-60% of generated energy wasted.

SOLUTION: Every House is a Node

Peer-to-peer microgrid: solar panels, local storage, ESP32+LoRa mesh.
HMAC-authenticated energy token trading. No internet. No utility needed.

ECONOMICS (20-house pilot village)

Node cost ex-works: GBP 427 (solar + storage + mesh hardware)
Node cost landed: GBP 562 (including logistics and import)
Full village (20 nodes): EUR 13,160

LICENSING TIERS

1. Annual Licence - Software + firmware updates + remote diagnostics
2. Territory Licence - Exclusive deployment rights per country/region
3. IP Transfer - Full codebase acquisition for national-scale deployment

CONTACT

Request a Pilot: assotechnologies.com/mesh/ngo
Email: support@assotechnologies.com

This document is a summary overview. Full pitch deck available on request.