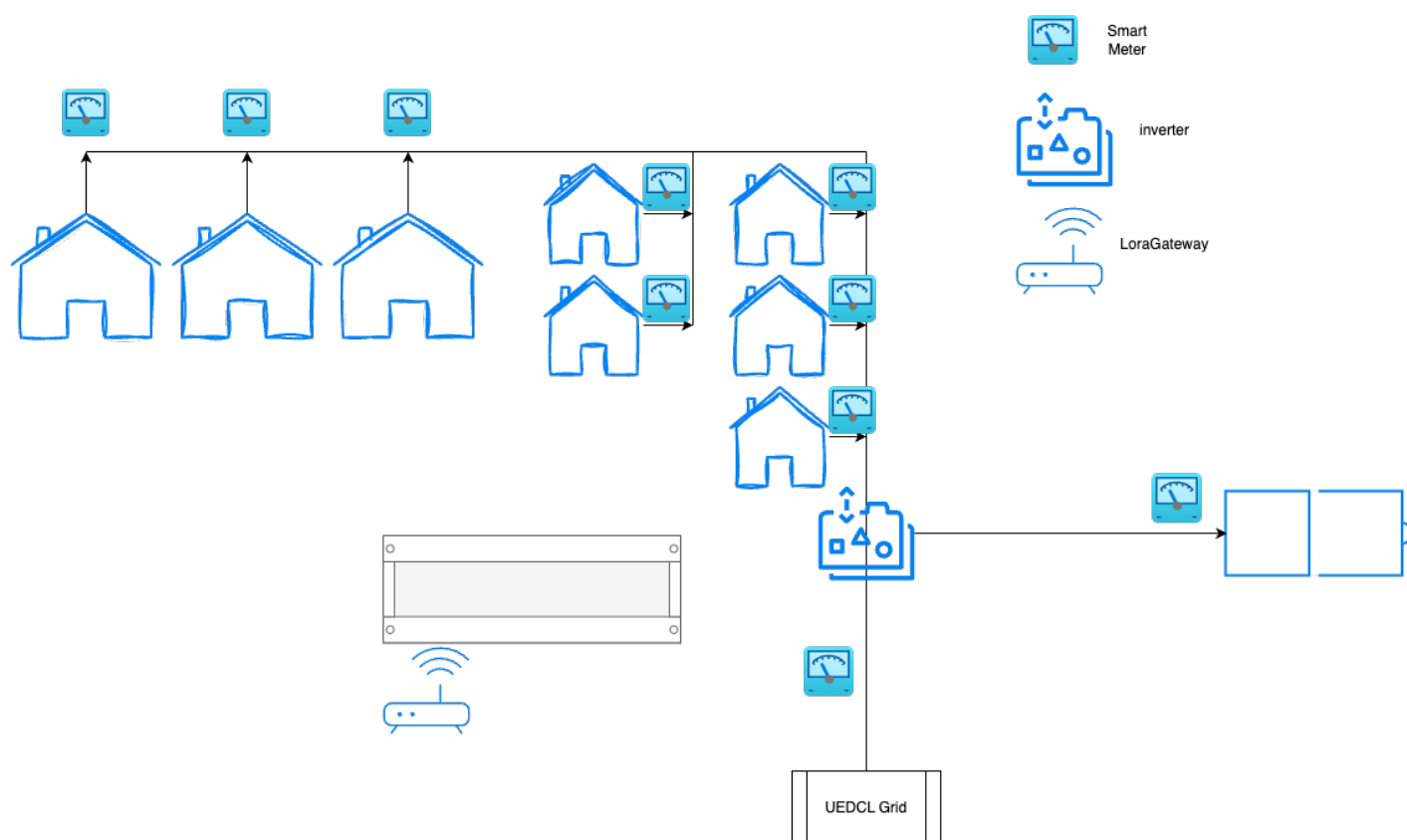


# Sezibwa Homes

This is a community of 10 homes in Nansana, Gadaffi close. It is the location of NFE's first Reliable Power Microgrid (RPM) in Uganda

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- [Budget - Phase 1: Sezibwa Homes](#)
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- [Monthly Finances](#)
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# Microgrid Design



# Budget - Phase 1: Sezibwa Homes

## Bill of Quantity NFE-Nansana

S/No	Item	Specifications	Quantity	SI Unit	Rate(UGX)	Amount (UGX)
1	Enclosure box for the PDU	80cm*60cm*25cm	1	box	550,000	550,000
2	Single phase MCCB	160A ABB	3	pc	120,000	360,000
3	Three phase Smart meter	80A Chint	1	pc	400,000	400,000
4	Busbars (Red, Yellow, Blue, Black and Green Yellow)	200A	5	pc	150,000	750,000
5	Circuit breakers	80A	10	pc	30,000	300,000
6	Enclosure Trunkings (Slotted grey truncking)		2	pc	30,000	60,000
7	Din rail		1	pc	10,000	10,000
8	Self tapping screws	0.5"	1	pkt	35,000	35,000
9	Cable lugs ring	16mm pin	18	pc	3,000	54,000
10	Cable lugs ring	25mm ring	18	pc	5,000	90,000
11	Sleeves	25mm	2	m	5,000	10,000
12	Sleeves	16mm	2	m	3,000	6,000
13	Flexible Cable Red	25mm	2	m	15,000	30,000
14	Flexible Cable Blue	25mm	2	m	15,000	30,000

15	Flexible Cable Yellow	25mm	2	m	15,000	30,000
16	Flexible Cable Red	16mm	4	m	8,000	32,000
17	Flexible Cable Yellow	16mm	4	m	8,000	32,000
18	Flexible Cable Blue	16mm	4	m	8,000	32,000
19	Flexible Cable Yellow Green	10mm	2	m	5,000	10,000
20	Flexible Cable Black	2.5mm	2	m	1,500	3,000
21	Flexible Cable Green	2.5mm	2	m	1,500	3,000
22	Flexible Cable	2.5mm	2	m	1,500	3,000
23	Communication Cable	1.5mm	6	m	1,500	9,000
24	Indicator lamps	230V	3	pc	5,000	15,000
25	Double Socket	Pcs	1	pc	10,000	10,000
26	Insulating tape	Pcs	5	pc	3,000	15,000
27	Pin lugs 25sqmm for different colours	Pkt	1		4,000	4,000
28	Pin lugs 16sqmm for different colour	pkt	1		3,000	3,000
29	Airal Cable	35sqmm ABC Cable	100	m	15,000	1,500,000
30	IPC	35-70sqmm	8	EA	6,000	48,000
31	Armoured Cable	25qmm	10	m	65000	650,000
32	UEDCL 3phase Commercial Meter	TOU Code 10.2	1	EA	3,500,000	3,500,000
33	Service Cable	16sqmm 2 Core cable	30	m	15,000	450,000
34	Service Cable	16sqmm 3 Core cable	150	m	30,000	4,500,000

35	Service Cable	16sqmm 5 Core cable	100 m	50,000	5,000,000
36	Smart Meters	<a href="#">1 Phase DinRail Split prepaid meter- 1.pdf</a>	10	290,000	2,900,000
37	LoraWAN gateway	<a href="#">CAL-025.pdf</a>	1	1,803,000	1,803,000
38	Labor (installation)	<a href="#">Green Volta</a>		2,000,000	2,000,000
<b>Total</b>					<b>25,237,000</b>

The site plan illustrates the layout of the Gaddafi Complex. Buildings are labeled H1, H2, H3, R1, R2, R3, R4, R5, Boy's Quarter House, and Main House. Walkways are shown as red lines, and the main road is Gaddafi Cl. A north arrow is located in the lower-left corner. Cable routes are color-coded: blue for 30m, green for 40m, and red for 50m. A PDU is located near the Main House, with a legend indicating: 30m (30m 4-core Cu XLPE cable), 40m (30m 4-core Cu XLPE cable), and 50m (30m 4-core Cu XLPE cable). The plan also shows a 3-phase transformer and a 3-phase connection point.

[illegible]

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revision	date	description

**CLIENT:**

Nearly Free Energy (NFE)

PROJECT TITLE:

Nansana Rentals

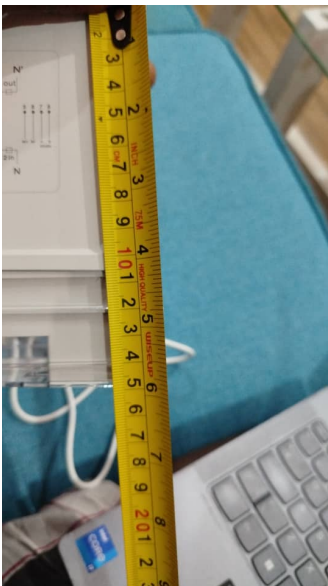
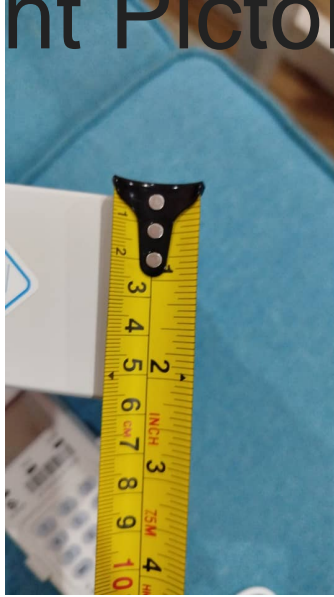
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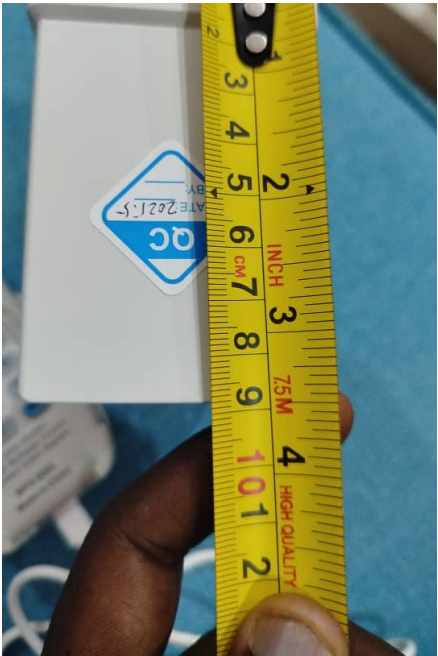
Date June, 2025	Scaled at A2 1:1	Scaled at A2 N/A
Drawn by Hunungi Margret	Checked by Eng. Kimbowa Dansturn	Approved by Eng. Kimbowa Dansturn



Project number	discipline	drawing number
issue type SUBMISSION		revision

# Procurement Pictorial







# Monthly Finances

## Energy Sales

We are making these sales projects based on what they spend today and not the power they use.

- Number of Customers: 10
- Average historical spend per customer: 80,000 UGX per month (about 3kWh per day, for 30 days)
- Total Revenue: 800,000 UGX per customer (800 UGX per kWh)

## Expenses

- Bulk Purchase of power: 491,760 UGX ([546.4 per kWh](#) at 3kWh per day for 30 days for 10 customers)
- Taxes (18% VAT) - Charge to customer?
- Operations: 100,000 UGX
- Real time expenses tracked [here on Open Collective](#)

## Net Returns

- Sales - Expenses: **308,240 UGX**

# Ownership (Membership)

This project is community owned as per the model described [here](#).

## Funders

- NFE - 21,300,071 UGX
- Unallocated - 3,936,929 UGX

## Workers

- NFE

## Customers

- Non Eligible yet

# Phase 1 Pictorial







# Customer Registry

# Inspection Document

[Inspection Document.pdf](#)