

Seed - Accra, Ghana

Nsoro Grid

Demand forecasting and battery dispatch for solar mini-grid operators in West Africa



Nsoro Grid

The problem

What's broken today

Solar mini-grids serving rural towns run their batteries flat at night when demand spikes, so operators fall back on diesel generators that cost up to five times more per kWh. Load shifts with market days, harvest season and newly connected grinding mills, yet most operators still plan dispatch from monthly spreadsheets. A typical 60 kW site burns about 1,800 litres of diesel a month that better planning could avoid.

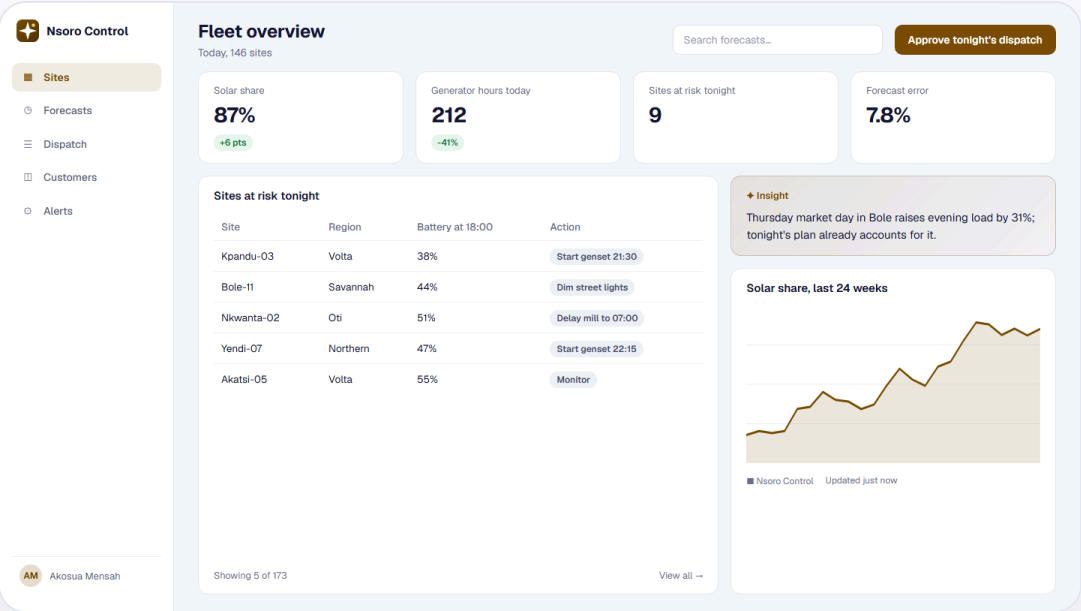


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Our solution

Nsoro Control

Nsoro Grid reads smart meter and inverter data every 15 minutes, forecasts each site's load and solar output for the next 48 hours, and sets battery charge and generator schedules automatically. It flags customers close to their tariff limits and suggests when to connect new productive loads such as mills or cold rooms. Sites keep working over SMS and 2G links when the internet drops.



Site forecast

Nsoro Control

Sites

Forecasts

Dispatch

Customers

Alerts

Site forecast

Kpandu-03, next 48 hours

Search forecasts...

Edit dispatch plan

Peak load

41 kW

Solar forecast

312 kWh

Battery cycles

1.2

Generator run

2.5 h

-1.5 h

Dispatch plan

Time	Load (kW)	Source	Battery
06:00	18	Battery	62%
12:00	27	Solar + charging	88%
18:00	41	Solar + battery	71%
21:30	36	Genset + battery	34%
02:00	15	Battery	29%

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View all →

Insight

A cold room connected on 3 October added 6 kW of steady night load at this site.

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AM

Akosua Mensah

Why now

The timing

Mini-grid funding in West Africa has grown fast, but diesel costs and thin margins decide which operators survive. Cheap smart meters now give the data to plan dispatch.

Market

Mini-grid operators and rural electrification developers across West Africa; thousands of mini-grids are operating or funded in the region, most run by operators with 10 to 200 sites.



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How we make money

Monthly subscription per site (US\$90–US\$180 depending on capacity), plus a share of verified diesel savings for operators who choose the performance plan.



Traction

Where we are

146

Sites connected

US\$21K

Monthly revenue

96,000 L

Diesel avoided per month

11

Operators

- 146 sites with 11 operators in Ghana, Togo and Nigeria
- 96,000 litres of diesel avoided every month
- US\$21K monthly revenue, with no operator lost to date



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Team

Who's building it

AM

Akosua Mensah

CEO and co-founder

KB

Kwesi Boateng

CTO and co-founder

IN

Ifeoma Nwosu

Head of Field Operations



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The ask

What we're raising

Raising US\$2.2M seed to reach 600 sites and break even by 2028

- Integrations with four more inverter and meter brands
- Field operations team in Lagos and Abidjan
- Performance-plan reporting that lenders can audit



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