



SIDONGE

Busia, Kenya

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Project Development

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EPC Deployment

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Operation & Maintenance

Location

Busia > Samia > Funyula > Nambuko > Mango

Closest town - Funyula

Population

Approximately 600 people or 104 households

Nearest School

Primary - within community

Secondary - 5km walk

Electricity Supply

National grid within 5km

Only 2 small businesses and a private home connected

Water access

Ground water from shallow wells and Sio river close by

Spring with manual chlorine dosing

Irregular piped water to a few families

High cholera prevalence

Income & Economy

Avg. Monthly Spend of 15-25 US\$ (firewood, charcoal, water treatment, medicine and others)

Agriculture subsistence farming largely

Some livestock & poultry



TECHNO-ECONOMIC SUMMARY

IMPACT

250 Families
provided access to electricity



€30000

total amount needed in order to complete this project



Matching Found

For each Euro you invest, Fortum will fund one Euro, until the project is fully funded, enabling your impact to be twice as effective.



RVE.SOL funds

RVE.SOL pledged €15000 from their own funds into the installation, to cover the overall installation costs of €45000.



5 years

number of years until you get your money back



10.4%

Gross return exclusive exchange rate. Bi-annual repayments, grace period on first payment (only interest payment), 10% interest p.a. on declining balance.



€33276

Return after 5 years



December 2015

receive investment.



March 2016

Construction is completed. People start receiving electricity.



Risks

Exchange rate fluctuations and political risks in Kenya which could influence the amount of money payed back.



Regular updates to investors

About the project and the positive impact it has on people's lives.



50 Families

with access to renewable electricity and potable water



30 Families

Access to 24/7 electricity



20 Families

Access to solar lanterns



7 kWp

hybrid solar installation



5+

businesses with electricity



75% more savings

per house, per month, by using electrical bulbs instead of kerosene lanterns



72% reduction

in kerosene use



74% monthly savings energy

of \$12/month instead of \$16/month



47% improvement in grades

because of night-time study with light



180% increase in girl-child school

attendance because of financial savings



Zero cases of waterborne

illness through consistent use of potable water



2h savings

per mobile phone recharge, avoiding long distances to normally do so



Access to television

and related educational programs brought on further income and savings increases



100% increase

in cassava yield



66% increase

in mosquito net and resulting prevention of malaria



The impact study results indicates not only that the KUDURA technology works reliably, but more importantly that consumers are willing to pay for clean energy & water services. A further 28 households have signed for our next expansion phase.

PARTNERS



Equatorial Sun Power

