

ldeword

45M

People to be connected to off-grid solutions by 2030

1.58GW

Potential PV Capacity to Deploy

Number of off-grid sites with more than 500 households



528MW

Potential PV Capacity to Deploy

Number of off-grid sites with less than 500 households

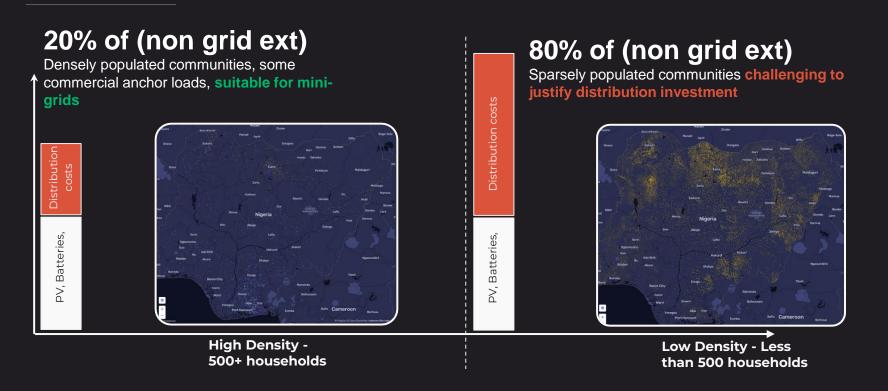


1.05GW

Potential PV Capacity to Deploy

The off-grid Energy Technology Gap

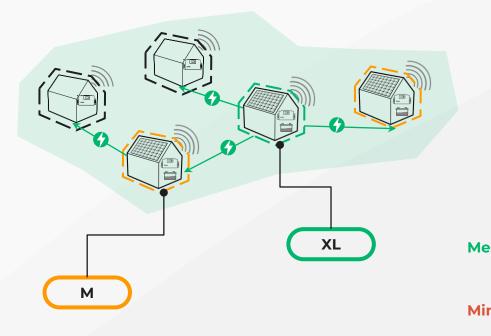
How do we get productive use energy to low density lastmile areas?





ଜokra

What are mesh-grids?



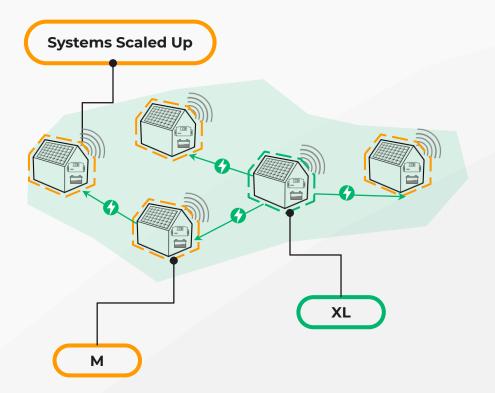
30 - 50% reduction in per connection cost

Due to reducing distribution cost by 90% vs. traditional mini-grids



ଜokra

What are mesh-grids?



Grid built inside out based on demand



Modular

IoT automated

⇔okra

Mesh-grids in the field







Data from Deployed Pilots in Nigeria











333Wh /day Average Daily Load

4.4kWh /day Highest Average

GOKRa

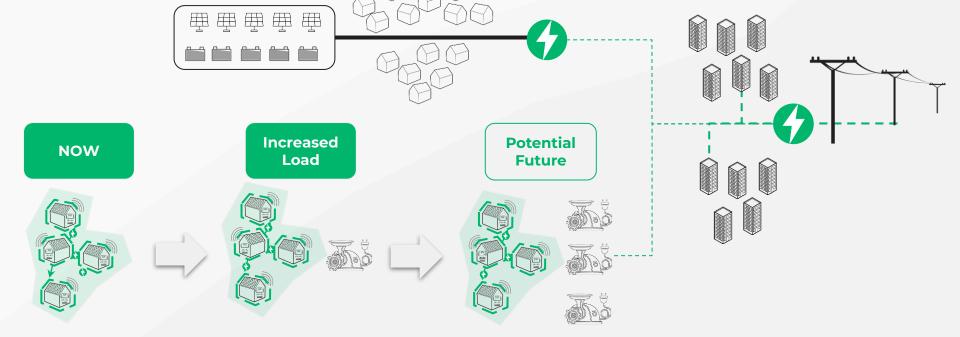
Daily Load

₩3,300 ARPU per customer 8 Years

Payback (No Subsidy)



The decentralised harmony of energy solutions



Recommendations for advancing meshgrids

Provide 80% of mini-grids subsidy to mesh-grids

- i Ensure this provides same capacity as mini-grids
- More connections for less subsidy
- Enable hardest to reach communities to be energised with productive power

A Enable SELV under 100 kW to be deployed without any approval process

Speed up deployment