

Industry 4.0

energy

power

Automotive & Internet of Things
(IoT)

REISPAR TECHNOLOGIES

a digital utilities (energy & power) start-up

November 21st, 2018

PILOT PHASE

About Us –Company presentation

www.reispartechnologies.wordpress.com

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Introduction – The Problem

- **Reispar Technologies** is a digital energy and power start-up in Nigeria, our **clean energy generations** will provide about **2 million** Nigerians (of the 99 million) **rural community dwellers** with *affordable, reliable and clean energy solutions in three years scalable (2019-2022)*.
- The mini-grid market (renewable energy potentials) in Nigeria is \$8billion US Dollars untapped. *Please watch our video pitch on YouTube:* <https://www.youtube.com/watch?v=V-OFM3WRMNC>
- Many rural households spend more than \$6/month (N 2,100/ month) on kerosene or battery powered torches, making a compelling case for **solar and wind energy systems**. Through the installation of several units of **100 Kilowatts-1 Megawatts renewable energy** power-plants (Solar and Wind turbines), our technology will serve 500-5000 people for the pilot phase. There are 85 million people underserved to the grid, which is an enormous investment opportunity.

Why We Started Up- Our Inspiration

There is no better way of creating the future than predicting it. Reispar Technologies started up because **we see a need** in the **renewable energy market** in Nigeria *and we can fill it.*

Creating a cleaner and better environment for our children and unborn generations would mean harnessing the vast amount of potentials from renewable energy.

What we want to do -Vision & Product/Service

Mini-grid Installations (Clean Tech):

In our quest towards a 100% renewable energy future in Nigeria, mini-power plants (Solar & Wind) shall be installed across local communities, based on the regulations for the mini-grid market in Nigeria; Reispair Technologies would *generate* and *distribute* to various homes using smart meters.

- Our mini-grid power plants would penetrate rural Nigerian communities most of which are difficult to reach and have no access to major government/distribution and transmitting power companies. *Nigerians already spend **\$14 billion annually** on **off-grid** power from small self-generators.*
- There's a **\$9.2 billion** (₦3.2 trillion) annual market opportunity to supply off-grid and underserved customers with mini-grids and solar home systems. This shift would **save Nigerian customers \$4.4 billion/yr** (₦1.5Ttrillion/yr) over current energy cost. *(data backed by: World Bank Energy Team & Nigeria's Rural Electrification Agency)*

A Case Study

Electricity costs nearly \$0.75/Kwh in Obot Ekpene (Southern Nigeria) and most households spend \$9/month on alternatives.

- 30 households, currently with *no electricity access*.
- **10 km away** from *nearest grid connection* and 3 km away from road access.
- 15 kW of existing self-generation is used to process agricultural products, including cassava and palm oil.
- No reliable, affordable power solutions are available, especially to remote area.
- There are thousands or tens of thousands of such sites in Nigeria.

SOLUTION: A **\$130,000 mini-grid (Solar homes/Wind Energy)** generates a 15% project IRR, saves \$18,000/year, and provides better service. (*Backed by World Bank Energy Team, Rocky Mountain Institute & Nigeria's Rural Electrification Agency*)

Funding: Our Pilot Phase

With an initial funding of \$2 million USD for our pilot phase we can achieve the following;

- I. Deploy 50 kilowatts-100 kilowatts solar mini-grid power plants to our target communities with a expected consumer target of 2000-8000 people.
- II. Hiring of Engineers and Technicians.
- III. Manufacturing/Purchase: We would commence procurement of power equipment and systems (generation and distribution lines etc)

Potential to Scale: The business has a potential to scale to 2 million users of our services in 3 years and 10 million users in 5 years.

Meet the Team

CEO/Founder- Tolulade Ademisoye: Tolulade is a Project Mechanical Engineer versatile in digital technologies, he graduated from the prestigious Covenant University where he began his journey into entrepreneurship. Previously, he executed a US\$ 6 million gas engines power-plant Engineering, Procurement and Construction project (off-grid technology) among others.

Olumadebo Ademisoye: Olumadebo is a data analyst and quality engineer, he is a graduate of Chemical Engineering from Landmark University and a graduate member of the Nigerian Society of Engineers. He interned at Total before completing his degree course.

Lead Software Engineer- James Oyana: James is a Software Engineer and Chief Technologist he studied Production Engineering from the University of Ibadan. He is the co-founder of a data science Lagos initiative training the tech community on Python for Machine learning.

Finance Advisor- Adedolapo Raji: Adedolapo is a an energy investment analyst and a graduate of Sheffield University, UK- Energy Management

BUSINESS REGISTRATION



FEEDBACK

Thank you for your time, we would appreciate your feedback;

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