

Problem

4000 kWh%

The annual per Capita electricity consumption per person which is the dividing line between developed and developing countries

<https://studylib.net/doc/5323131/correlation-between-human-development-and-per-capita-elec...#>

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Nigerian Government energy generation goal to generate 30GW of grid power with 30% of through renewables by 2030

Nigeria Government

Failure rate < 2 year

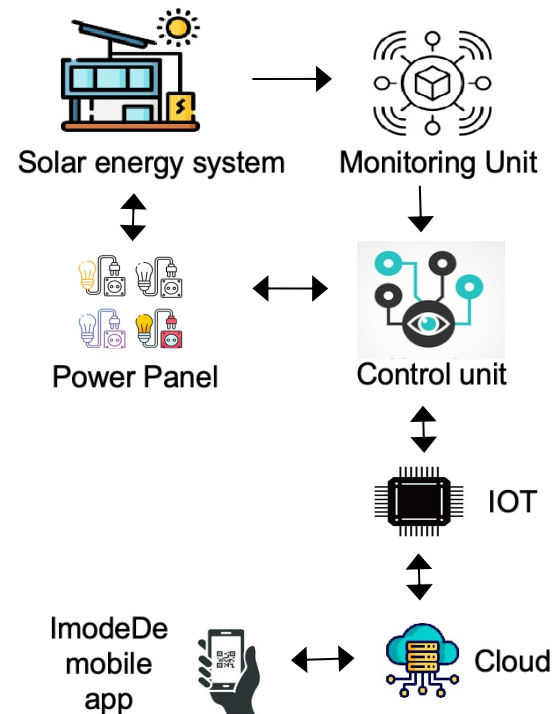
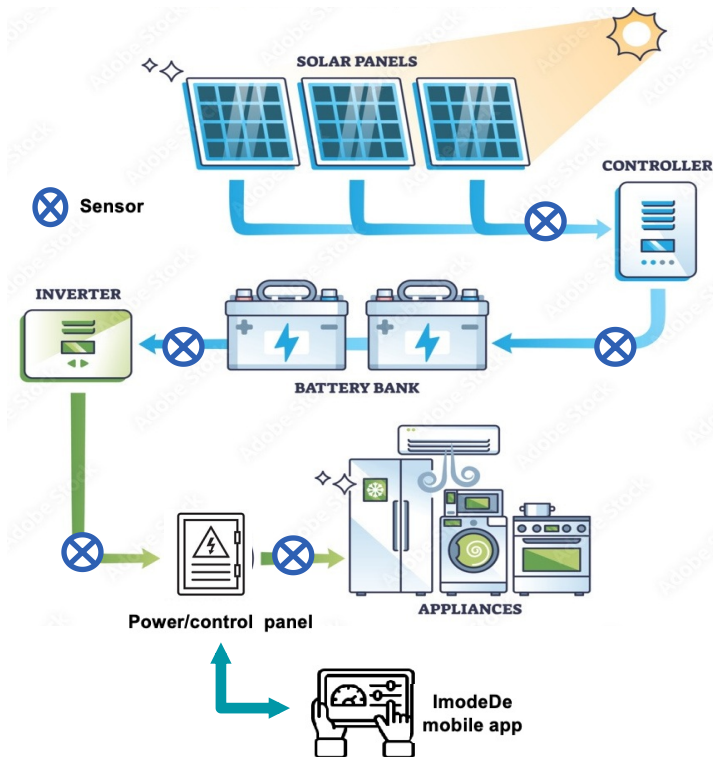
Failure rate of installed solar energy solution in Nigeria due to improper usage, lack of feedback and maintenance issues despite high investment

Research by author

Ref: Pictures and images adapted from Google Images downloads

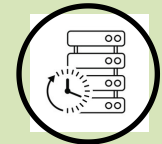
Solution

The ImoleDe is an innovative, non-intrusive, add-on solution that optimizes energy generation and consumption in solar setups.



ImoleDe

Smart Energy for all



Real-Time Monitoring

IoT enabled to provide comprehensive real-time monitoring solution for home inverter systems,



Artificial Intelligence

For management, prediction and optimal control of the inverter system



Non-intrusive

Requires no alterations to the existing setup

Competitive Landscape

	Local Solar Systems	Imported Solar Systems	ImoleDe - Our solution
Mobile data	-	-	
Smart system	-	-	—
Real-Time	-	-	
Non-intrusive	-	-	—
Artificial Intelligence	-	-	
Solar Energy System	—	—	-
Available in Nigeria			

Journey/Validation

- A fully functional prototype
 - monitors critical energy parameters, such as grid voltage, household energy consumption, and battery charge/discharge state/rate
 - Integrated automatic switching
 - Standout feature, is the mobile app
- Three customer packages: a standard, premium and deluxe package. .
 - The standard package
 - The premium package
 - The Deluxe
 - it will be subscription based.
- Business-to-consumer sales model will reach end-users directly
- Business-to-business sales model - partner with key solar installers and inverter manufacturers
 - Initial focus is on Lagos and Abuja
 - Project 500 sales within the first six months. With a 15% mark up margin per device



Team



A Passionate, Experienced, Growing and Dynamic Team

Prof. Folasade M. DAHUNSI
Team Lead/ Systems Engineer

Engr. Olayiwola C. ADESOBA
Business and Financial matters

Engr. Charles N. UDEKWE
AI and Mobile App Development

Dr. Olaide A. AGBOLADE
Embedded Systems and IoT

Funding Requirement

We are seeking ~~N~~480.5 million to support Research and Development, pilot deployment, and early-stage commercialization.

Funding Needs

~~N~~480.5 million