Off-grid Electrification Solution

Prototype implementation

prototype material delivery

demonstrating a working prototype

MPPT charge controller implementation

**Buck-converter** 

Inductor implementation

MOSFET driver implementation

Buck-converter assembling and testing

incremental conductance algorithm

Algorithm implementation

Algorithm testing

demonstrating improved system with MPPT charge controller.

DC-AC inverter implementation

Astable multivibrator

Implementation

Testing for 50Hz square wave

Third order low passive filter

Assembling and testing for since wave

High frequency transformer

Implimentation

**Testing** 

Demonstrating an improved system with additional AC loads.

Load protection implementation

Over-voltage protection on battery

Under-voltage protection on battery

Short-circuit protection

Over-current protection

Demonstrating an improved system with functional load protection mechanism

Packaging