

# NEXT ROUND OF INVESTMENT TO SCALE ABSOLUTE ENERGY:

## SUSTAINABLE ENERGY SERVICES FOR KITOBO ISLAND

### BACKGROUND

#### THE COMPANY:

Absolute Energy (AE) is a private company established in **2009** in Italy by Alberto



#### TARGET POPULATION :



- 555 rural households
- 50 small & medium businesses
- 1 primary school
- 1 fish processing plant

#### PROBLEM VS SOLUTION :

**Kitobo** is a remote island in **Lake Victoria** that enjoys vibrant economic activity, mainly driven by the fish-related value chain, serving both the local and the national markets.

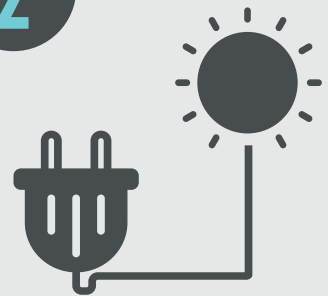
Kitobo has **no electricity supply** and its population is paying the price of its isolation.

1



The use of **diesel/ petrol generators** and **kerosene** implying relevant expenditures and **CO2 emissions**.

2



**Reliable, affordable and green electricity** supporting the sustainable economic growth of the community.

# CURRENT ACHIEVEMENTS

## LOCATION :



Kitobo Island, Kalangala District  
Central Region, **Uganda**.

## PARTNERS:



1. AVSI Foundation, International NGO, active since 1974.
2. CIRPS, Interuniversity Research Centre on Sustainable Development, active since 1988.

## REDUCING FOSSIL FUELS:



1. Installed capacity: **228.8 kWp** solar PV + 70 kW diesel backup + 520 kWh batteries.
2. Energy generated: at least **394.7 MWh/year**.
3. Annual CO<sub>2</sub> emission reductions: **78.9 t CO<sub>2</sub>eq** only at the first year.

## BUSINESS MODEL :

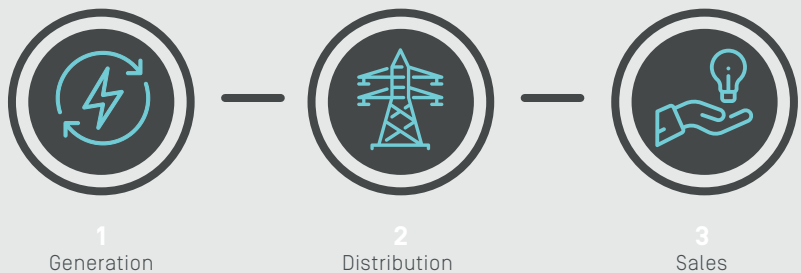
Facing the rural electrification challenge with an innovative business model based on investing in the final off-taker:

**Our customers' growth is our growth, since we do believe that supporting the development of local business boosts the growth in energy demand.**

Applying a holistic approach based on:



Operations Model:



## TARGETS ACHIEVED:

Promotion of **climate change** strategies:

**70%** of local population sensitised on safe and efficient use of electricity.



**18** temporary staff involved during the construction phase with a total of **453 mandays**.

AE employs 8 permanent staff in Kitobo island.



The community has **100% access** to electricity.

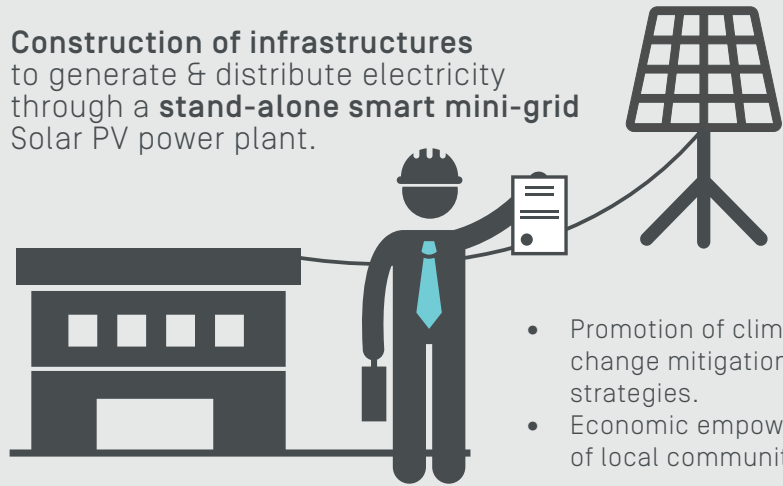
## MARKET PENETRATION:



**543** customers connected, representing **89.8%** of the potential market.

## PROJECT RESULTS:

**Construction of infrastructures** to generate & distribute electricity through a **stand-alone smart mini-grid Solar PV power plant.**



- Promotion of climate change mitigation strategies.
- Economic empowerment of local community.

## FUTURE PROSPECTS

### INFRASTRUCTURE:



To date, Absolute Energy is actively present in **Uganda, Kenya & Rwanda** and is currently designing their next projects in **Mozambique** and **Tanzania**.

### SCALE UP STRATEGY:



With the Kitobo “pilot” project, AE developed a best-practice model to be replicated all across sub-Saharan Africa in a cohesive and efficient manner.

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## FIVE REASONS TO INVEST :



**Innovative business model** able to face the electrification challenge through a focus on community empowerment to assure the business profitability.

**Cutting-edge technologies and customized engineering design** makes Kitobo plant the most advanced off-grid mini-plant in sub-Saharan Africa.

**High impact & community inclusion** in productive businesses and women empowerment.

**High replicability and scalability** of the business model.

**Reliable and experienced Consortium**, able to effectively face the different tasks and risks of the project implementation.

## CONTACTS



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