



OffGridBox™



SUSTAINABLE
**WATER &
ENERGY**
SOLUTIONS
NETWORK



We provide affordable clean water and renewable energy in remote areas

Off grid energy as a catalyst for change

Worldwide, there are...

1.2 Billion people

without access to basic electricity

800 Million people

without access to safe drinking water

In Sub-Saharan Africa, there is a..

\$734 Million market

for solar powered irrigation, cooling and refrigeration, PULSE



One solution bringing clean water, power & connectivity

Features:

- 12-30 kWh/day off-grid electricity (3kWp-8kWp)
- 1000 l/h pumping and treatment
- 5 to 50 kWh total storage

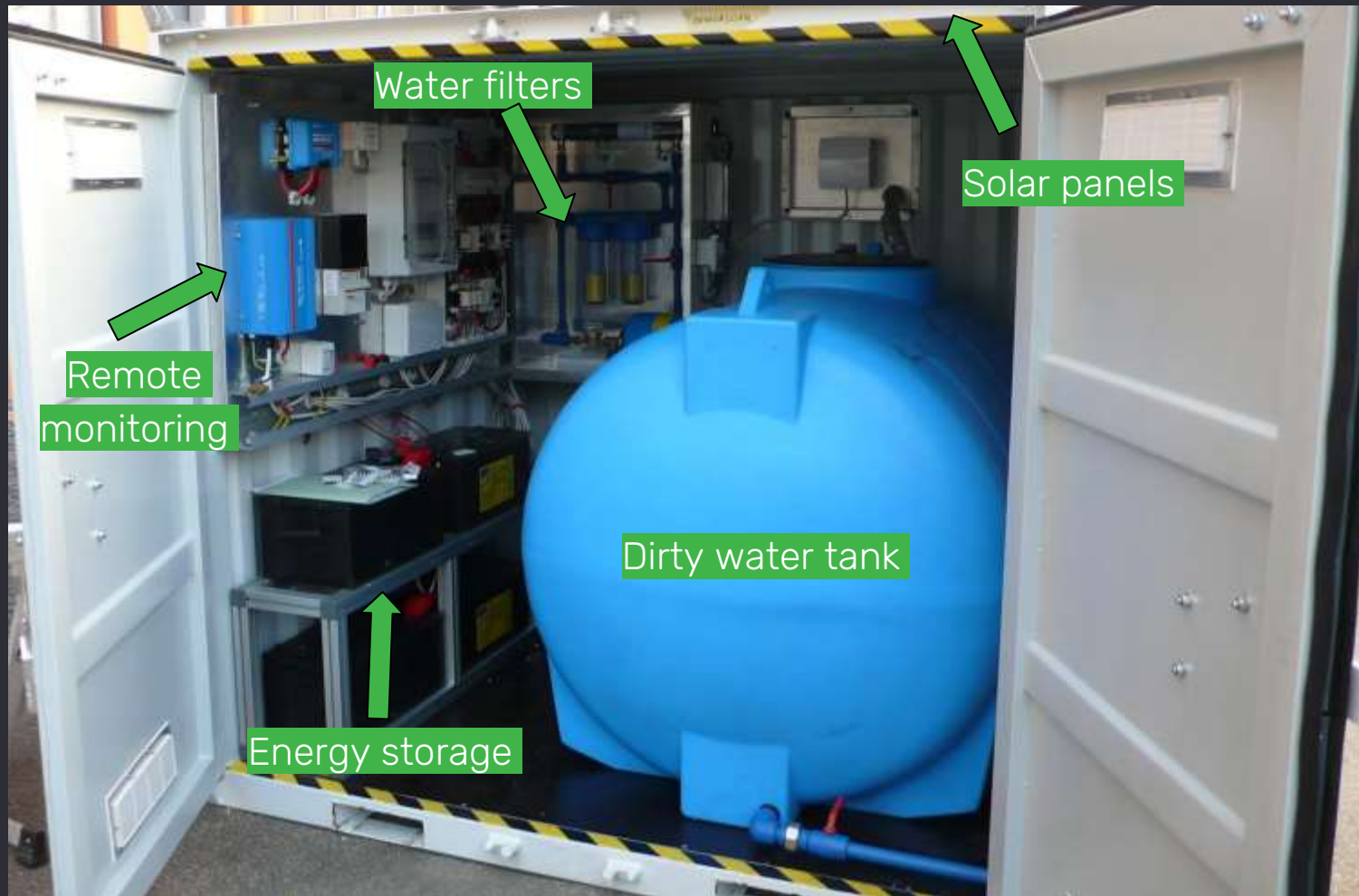
Competitive advantages:

- 3 hour installation
- Durable: survived a cyclone in Madagascar!
- Plug & Play and Anti-theft shelter
- Mobile and modular, PAYG app, remote monitoring
- Wi-Fi (Cellular 2G & 3G) for hotspot connection

Add-ons:

- Desalination unit: for coastal and island communities
- Micro-grid: for productive uses
- (Drip) irrigation: to benefit local farmers





Improved lives, improved incomes

Water



- Affordable purified water in the community;
- Reduction in water-borne diseases;
- No more fuel needed to boil water;
- Seawater desalination for coastal communities.

Energy



- Safe, affordable and pollution free lights in homes;
- Children can study at night;
- Home based business activities can be carried out;
- Customers can charge their phone and listen to the radio.

Impact



- Well-paid jobs and training for 2 women from the community;
- Energy for productive uses like welding, milling, irrigation;
- Institutional buildings (clinics, schools) can be electrified;
- WiFi provided through a hotspot.

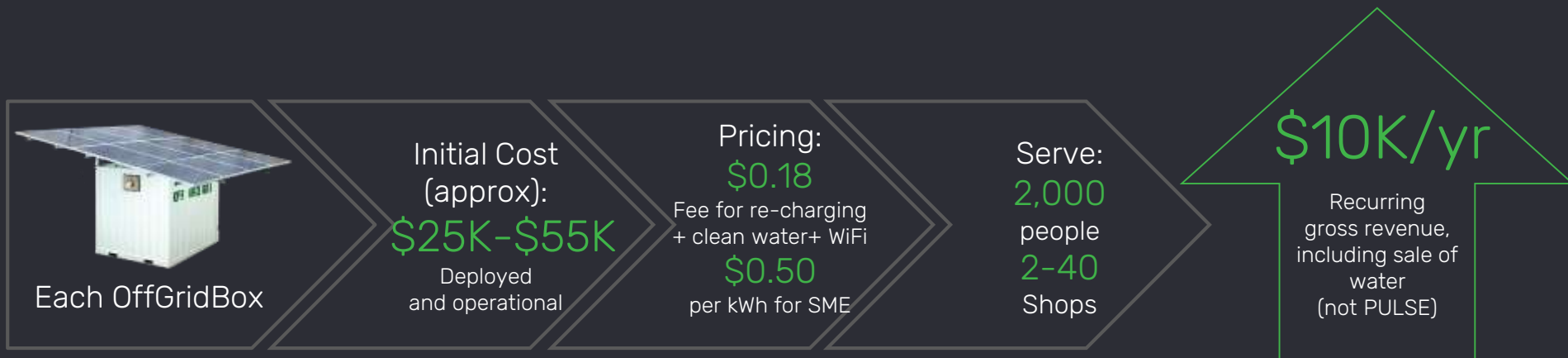
Family kit for Pay-As-You-Go

Each family purchases a \$15 kit that includes:

- One Lithium 40Wh battery pack
- Three 220 1m LED bulbs
- Phone adapter
- A clean branded 5L jerry can



Unit Economics



PAYG + PULSE + TREES = Agroforestry



Uses for the OffGridBox

Applications

- Village kiosk for power & water for households
- Energy for productive uses (agricultural)
- Energy for institutional building (clinics and schools)
- Humanitarian: disaster relief and refugees

Customers & Partners



Tanzania UNDP Project 2019

Aspects



- **3 Districts around Lake Victoria**
- **12 Boxes in rural communities**
- **3.3kWp and 6.6kWp boxes**
- **400 HH per Box**
- **Solar powered water pumping from 120m deep**
- **Potential for further productive use applications**

Serves as example for other projects:

- **Water pumping, drying and packaging of fruit**
- **Clean water & power for households**



Power Africa (USAID) project to electrify health care

Aspects

- **Total of \$2.6 million for 9 projects in 2020;**
- **OffGridBox chosen as only company in Rwanda;**
- **Electrification of 6 rural health centres;**
- **Plus PAYG energy and clean water for 200 households;**
- **Long term sustainability due to daily management by BoxKeepers;**
- **Revenues from sale of water and power will cover OPEX;**
- **Proven business model.**



Impact metrics



Employment

Each box will provide skilled, respected, and above-average paid jobs to 2-4 Women, plus spin-off employment.

Health

Clean water leads to 50-100% reduction in contraction of waterborne diseases. Clean water replaces boiling water causing lung diseases.

Education

Electricity at home leads to higher literacy rates and more school completion through longer night-time study hours.



Connectivity

Providing connectivity means rural communities gain access to global communication, leading to less isolation, and more efficient & better-informed societies.

Safety

Solar powered-lights will greatly reduce fire incidents and burn injuries caused by kerosene lights.

Environment

1 OffGridBox equals 15 tons of CO2 emissions avoided by divesting from fossil fuels and batteries.

Social & Women Empowerment

Each box will save 7.5 days of walking time per year collecting water, which is often carried out by women and children.



Emiliano Cecchini, PhD
CEO & CTO

Set up 6 companies; 20 years experience building sustainable utility solutions for impoverished regions



Davide Bonsignore
Global Director & CFO

12 years experience designing, and deploying renewable energy technologies



Jodie Wu
COO

10 years of experience in last mile distribution in East Africa, including energy



Bas Berends
Chief Partnership Officer

20 years of experience in diplomacy and sustainable development



Nicola Stenico
Technical Director

10 years experience working for RE companies in East Africa



Paul Kagame
Head of Administration

7 years of experience in the sales and marketing industry



Christian Yesashimwe
Project Manager

3 years of experience in managing construction projects. Extensive research in the Rwandan water and renewable energy sector



Troy Billett
US Director

10 years experience helping start-ups grow and scale. Consultant at Techstars 2017



Jean Marie Niyonschima
Commercial Manager

6 years experience in rural and urban business, 2 years experience in renewable energy and purified packaged water



Erina Kabatesi
Rural Sales Manager

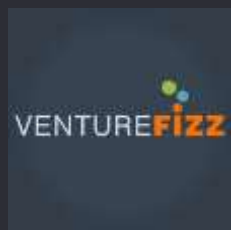
4 years managing solar retail sales and last-mile distribution of solar products. Passionate about community empowerment, especially women



Kathryn Chelminsky, PhD
Humanitarian

5 years of experience in energy and international relations

Press



BOSTINNO
AMERICANINNO

Newsweek





OffGridBox™

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