

Solar Doctors project concept



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The Problem

Several small-scale solar plants in the **African schools** and **health center** remain operational for less time than their intended lifespan due to a **lack of adequate maintenance.**

Actually, such plants become inefficient also due to a lack of skills and commitment from local communities.

The result is also a consistent increasing of e-wastes....

...TOO MANY DAMAGED SOLAR SYSTEMS in Africa...

The Problem



1) Lack of local skills



2) Absence of recycling Value Chain

3) No regulations for PV and Batteries disposal

The Solution

SOLAR DOCTORS is a not-for-profit initiative aiming at improving the impact of Solar PV systems for public facilities in Sub-Saharan Africa by...



- 1) Creating local competences and skills and promoting a certification pathway
- 2) Extending lifetime of solar plants and reducing impact of energy sector on environment
- 3) Guaranteeing a safe e-waste disposal promoting a reuse and recycling approach



The Solution

SOLAR DOCTORS is a not-for-profit initiative aiming at improving the impact of Solar PV systems for public facilities in Sub-Saharan Africa.



1

Pre-screening of facilities

2

On-site diagnostic and troubleshooting

3

Fixing and Revamping

4

Training

5

Remote monitoring

The Solution

SOLAR DOCTORS is also

Solar Doctor Matchmaking Digital Platform



Investments stream



Technical skills database

Solar Intervention request







Solar Doctor Matchmaking Digital Platform

Training needs

Some insights

Off-grid solar waste has significant impacts, including childhood lead exposure.

Emerging waste management consensus fails to address most of the waste flow.

Estimated 12,000 tonnes of waste generated in 2020, a 545 % increase from 2016.

Off-grid solar market and waste flow in sub-Saharan Africa are mostly unregulated. Profitable opportunities to close the lead-acid battery material loop in Africa

STAKEHOLDERS

SOLAR DOCTORS seeks support from different partners to cover all the needs:

Pre-screening, country-based facilities assesment



NGOs

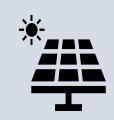


Technical on-site operation, training delivery and monitoring

EnGreen

Solar Industry

Materials donation, in-kind contributions



Financial Institution



Support for on-field expenses coverage, support for visibility and scale-up

STAKEHOLDERS

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Rwanda E-waste recycling facility







WHO WE ARE

- EnGreen is a technical advisory start-up helping NGOs and government disseminate renewable energies to boost rural electrification and socio-economic development
- 15 staff employees based in Europe
- 100+ grid-connected and off-grid solar hybrid systems designed and installed





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