

# GoSol Solar Impact Projects: Creating Entrepreneurs with Solar Energy



# GoSol.solar

1 NO POVERTY



5 GENDER EQUALITY



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



Powered by Lytefire Solar Products: <https://lytefire.com>



# Problem: 2.7 Billion People Face Energy Limitations in 55+ Countries



India



Kenya



Tanzania

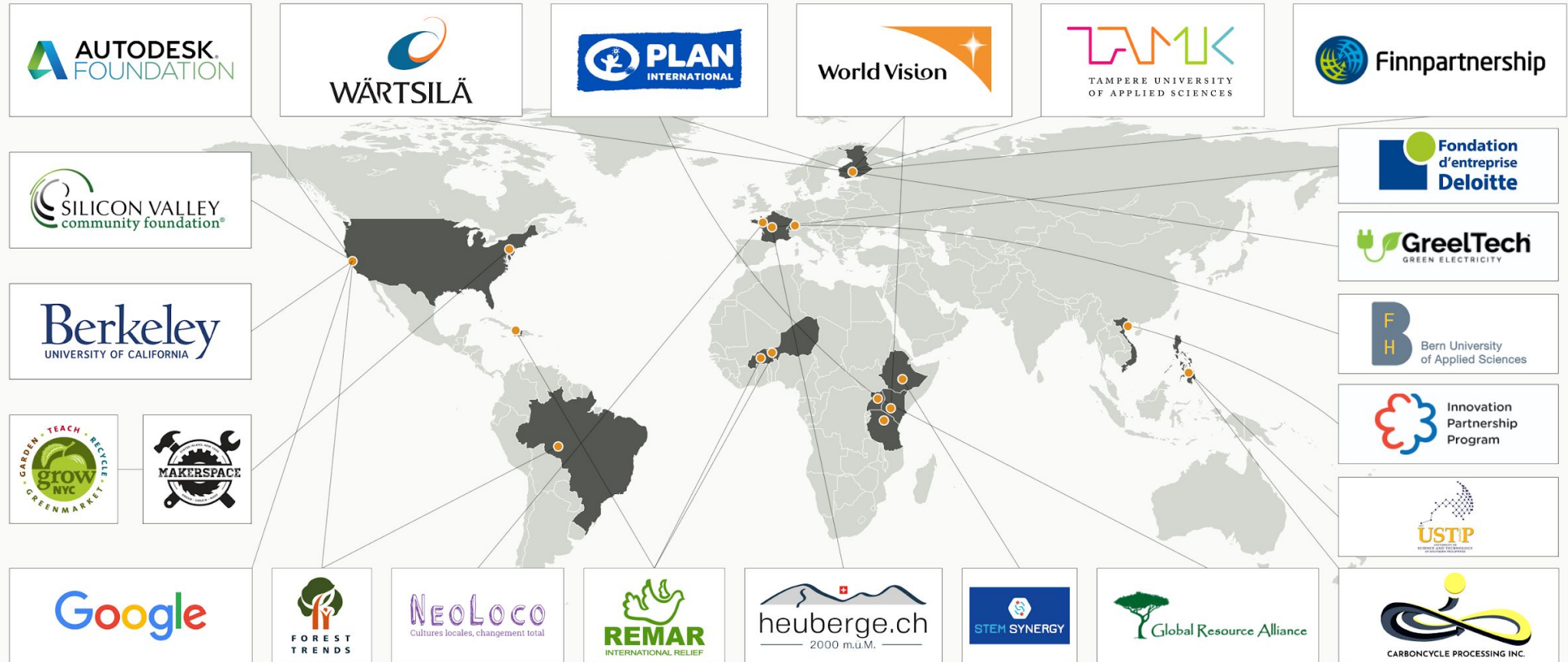


# We are achieving 7 UN Sustainable Development Goals





# Our Network of Clients and Partners





Learn about Lytefire Solar Products: <https://lytefire.com>

Lytefire 5 Roaster

Lytefire 5 Dehydrator

Lytefire 5 Oven



In 2017 we installed over 130 tonnes of yearly CO2 savings capacity, and proved that entrepreneurs get an average payback of just short of 18 months based on their real income generation.

Only through education can we effectively scale the technology to be accessible to the 2.7 billion people currently depending on biomass.

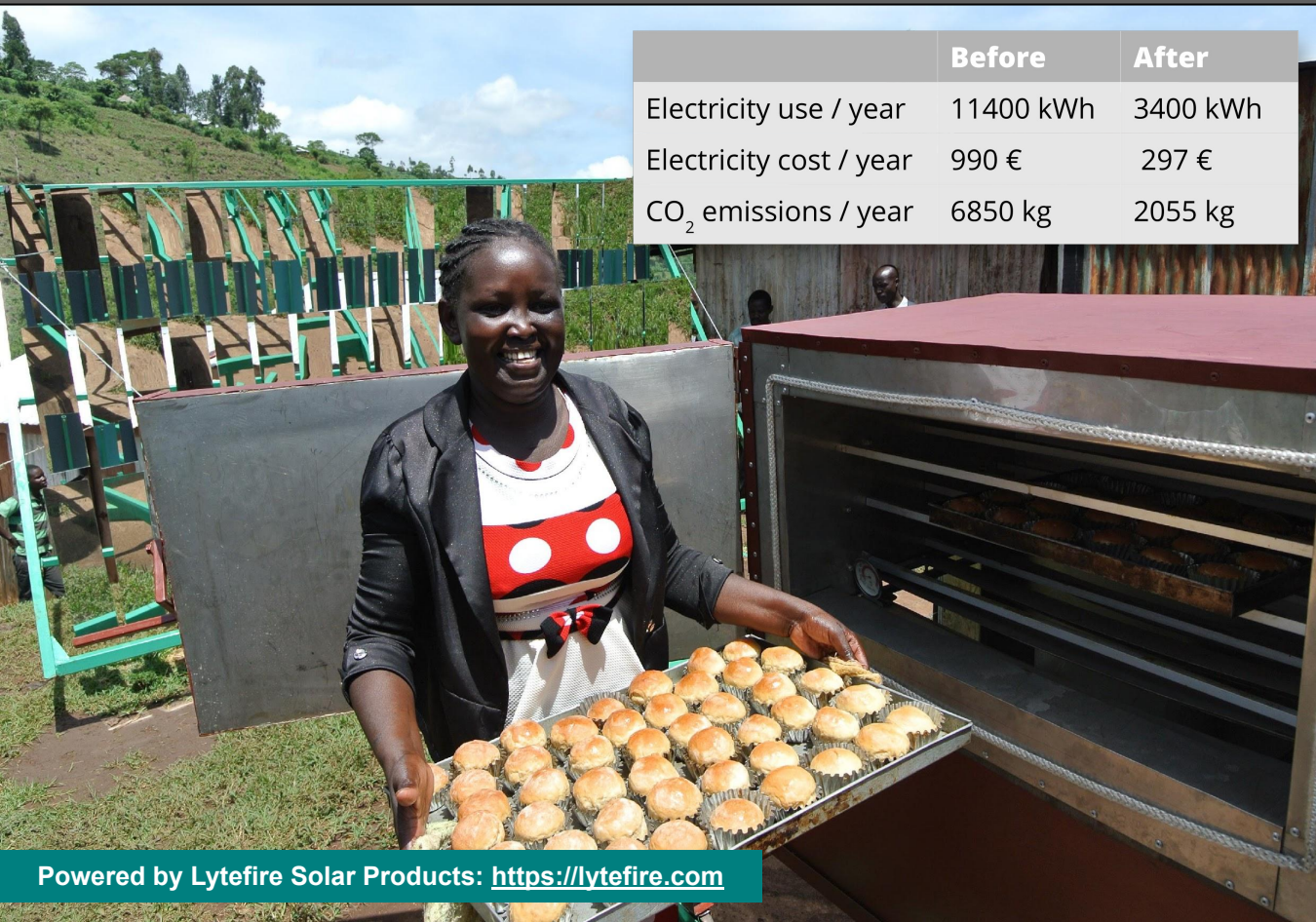








# Solar Entrepreneurship with GoSol



A woman is smiling and holding a tray of baked goods, likely bread or pastries, next to a large solar oven. The oven is a large, rectangular, metallic structure with a red roof and a glass door. The background shows a green hillside with some trees and a clear sky.

	Before	After
Electricity use / year	11400 kWh	3400 kWh
Electricity cost / year	990 €	297 €
CO <sub>2</sub> emissions / year	6850 kg	2055 kg

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Entrepreneurs we work with in Tanzania, Kenya, Brazil and the Philippines share one thing in common: Energy is a key problem for their business and energy cost is something they deal with on a daily basis.

The GoSol “Lytefire” solar concentrators allow entrepreneurs to use the power of the sun to run their business. Based on our data from Kenya it can help entrepreneurs improve their profit margins up to 44%

Lytefire concentrates sunlight with 5m<sup>2</sup> of mirrors, reaches temperatures of up to 350°C and produces 3.5kW of energy.



# Enabling Local Value Creation in Baking and Roasting

## Lytefire Roaster



- Roasts Peanut, Coffee, Cacao, Cashews and more.
- No more burnt taste from charcoal, firewood roasters
- Regulated temperature. High quality roasts with no charring
- Roasts 16kg of peanuts in 3 hours
- No fuel costs

## Lytefire Baking Oven



- Bakes 500 cookies per day,
- 16 breads per 45 minute batch
- Up to 35kg bread per day
- Up to 300°C baking temperature
- Even heat distribution for high quality bakes
- Immune to blackouts and brownouts
- No fuel costs

In East and West Africa, Brazil, the Philippines and more, the GoSol Technology was adapted to local contexts in collaboration with entrepreneurs.

Food processing, such as roasting peanuts, coffee, cocoa, or baking bread, cookies and pastries are naturally energy-intensive activities because of their heat requirement.

We have developed many applications, but the oven and roaster have performed best. This is why we have also created a combined unit, that can be used for both value-adding processes.

This allows entrepreneurs to explore more options as they develop their business.

More about Lytefire: <https://lytefire.com>



# Our Goal

The goal is to empower new entrepreneurs with solar energy to run sustainable solar bakery and roasting businesses and create green jobs.



Entrepreneurs with their first solar breads baked with the powerful Lytefire 5 solar oven.



The participants learn about solar energy and how to use it to run a sustainable bakery & roastery business.



Business launch event: Attracting clients and making sales.



# GoSol.solar – Education Pathway

## Design & Prove

We engineer, co-create and validate solutions based on entrepreneurs' needs, optimizing our SOL5 tech to work for their context.

1



## Educate

Implement proven solutions in education through vocational, entrepreneurial, and engineering courses with NGOs and institutional partners.

2



## Incubate

Work with partners to create programs integrating supply chains, education, micro-finance and capacity building to accelerate entrepreneurs.

3



## Scale

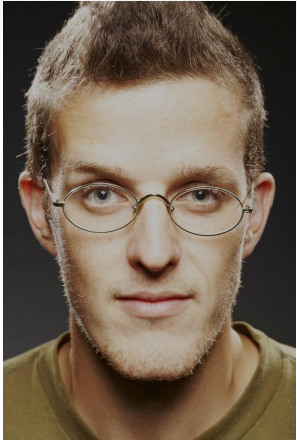
Build the ecosystem of partners and finance that can bring income generating solar thermal to millions of people.

4





# GoSol Chief Trainer Profile: Lorin Symington

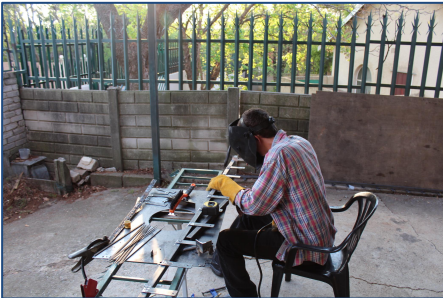


Lorin Symington is responsible for local fabrication and training at GoSol. He has built and installed solar concentrators in Kenya, Burkina Faso, Uganda, Tanzania, Mali, Haiti, the Philippines, North America and Europe.

Lorin has for example led the bakery training program in Uganda with Plan International, achieving the incubation of successful bakeries with students who had no prior knowledge of entrepreneurship and baking.



Local fabrication



Promotional Events



Solar Training



Bakery Training





# Contact

This document was drafted to illustrate solar entrepreneur trainings. We are flexible to adjust the project proposal based on your needs, especially when it comes to the scale and implementation timeline of the project.

We look forward to collaborate with Engineers Without Borders!

We are available for questions and look forward to further discussion.

Sincerely,



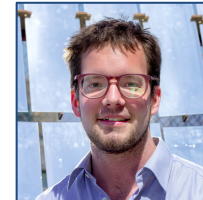
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