

# #connect2evolve

Join us to bring mobile solar power to Senegal

## €450,000

of donations cover the costs of erecting one Solartainer® in Bacco Ndieme

### The challenge

In the Senegalese village Bacco Ndieme, farmers can't refrigerate their produce and houses turn dark after sunset. The little electricity the community has is produced by diesel-powered generators, which makes it wasteful, expensive, and unreliable. This is the daily reality of more than 3,000 people in Bacco Ndieme – and over 630 million throughout Africa.

around **3,000** people can be supplied with decentralized power with just one Solartainer®

**How to take part in the project**  
Donations can be made from as little as 10 euros (via bank transfer, credit card, or with cryptocurrency) via [c2e.swarm.app](https://c2e.swarm.app).

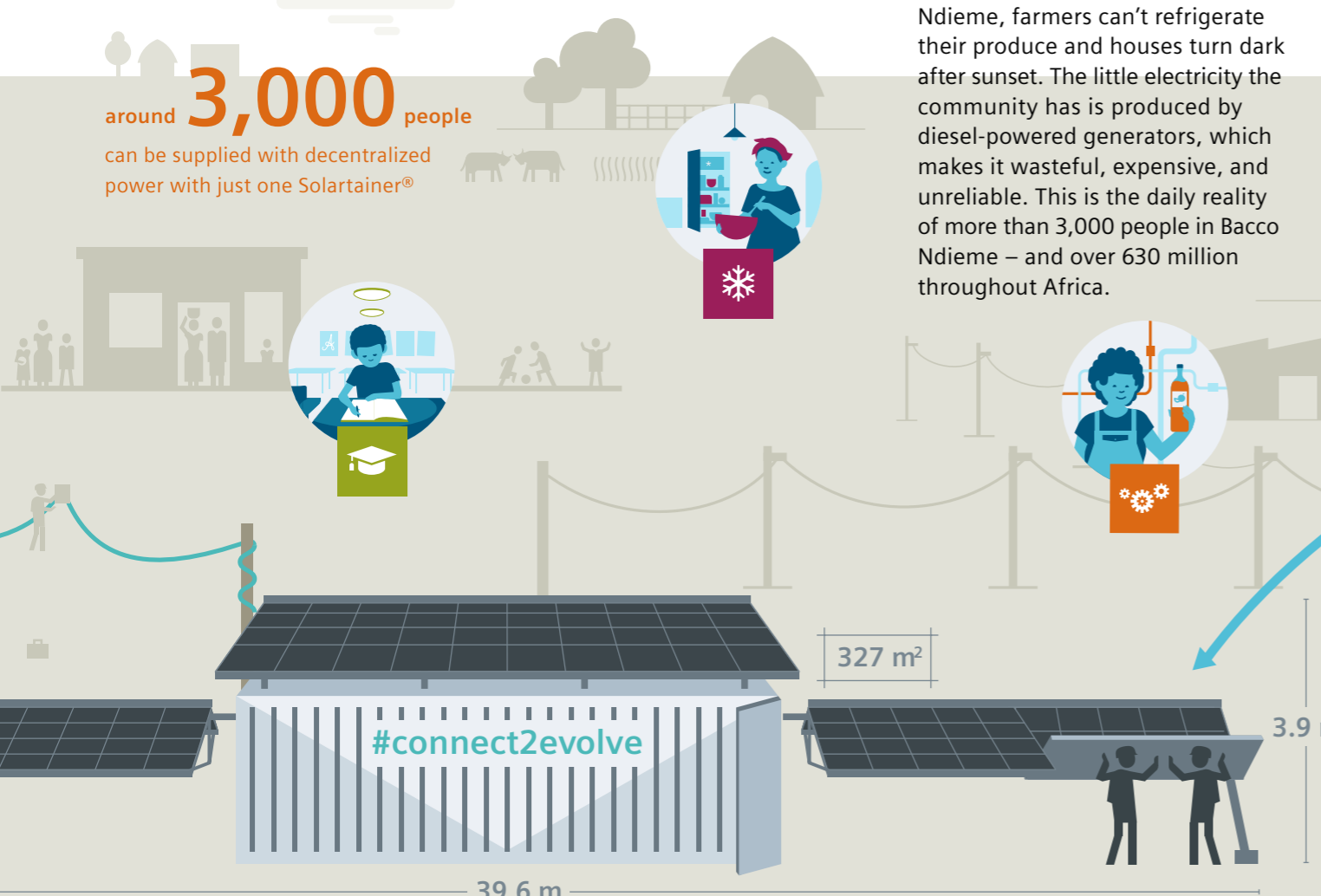
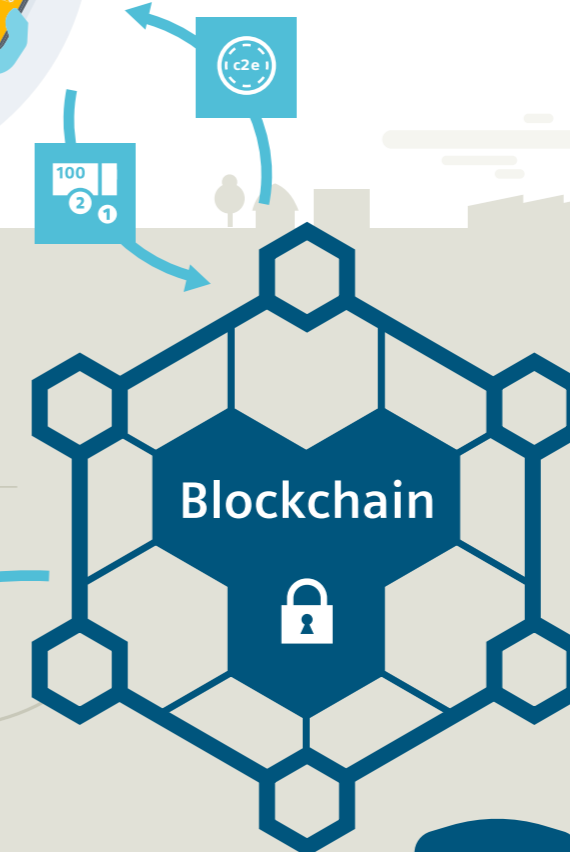
**SIEMENS**  
*Ingenuity for life*

## €150

covers the electricity consumption of one inhabitant for the entire life span of the Solartainer® (15 years)

### How blockchain is used

Blockchain technology provides transparency and trackability of donations. It will be used to transfer the data of the Solartainer® to an impact token that represents the amount of delivered kWh of renewable energy and can be translated into avoided CO<sub>2</sub>.



### The solution

With 450,000 euros, we can place a Solartainer® in the village, which incorporates solar panels and integrated battery storage into shippable containers, so residents can use electricity even after dark. We will also implement a micro grid with smart meters to supply around 300 households with power. With affordable electricity at their disposal, local businesses can thrive. Meanwhile interested donors can get involved with blockchain technology and receive impact tokens and track their individual contribution to the community.

## 0.5 kWh

is the average daily consumption of electricity per household

How much energy is used in an hour?



Charging cell phone = 0.005–0.01 kWh



Energy-saving lamp = 0.005–0.015 kWh



Running small fridge = 0.06–0.12 kWh

### What is an impact token?

Impact tokens are given to the donors and are issued according to the delivered kWh of renewable power. Each donor will receive impact tokens depending on the individual donation and can view these in a donor wallet. The wallet will be used to store impact tokens, which will be issued right after the first power generation delivery.

