

Is the world on the brink?













How people, planet and profit come together

by Prof. Dr. Wolfgang Rams Co-Founder of Africa GreenTec Professor for Entrepreneurship & Innovation Management



Life expectancy - income 100 years ago

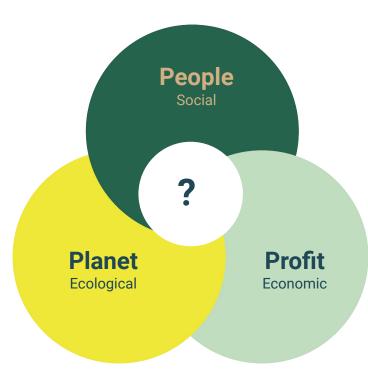




Life expectancy - income today







Do people, planet and profit come together?





600 M

people in sub-saharan Africa have no access to electricity*



The lack of energy access has massive effects on critical infrastructures in Africa



600 M

people have no access to electricity¹





54 %

of rural population has no access to clean water² 40 % of the fruit and vegetable harvest goes to waste³



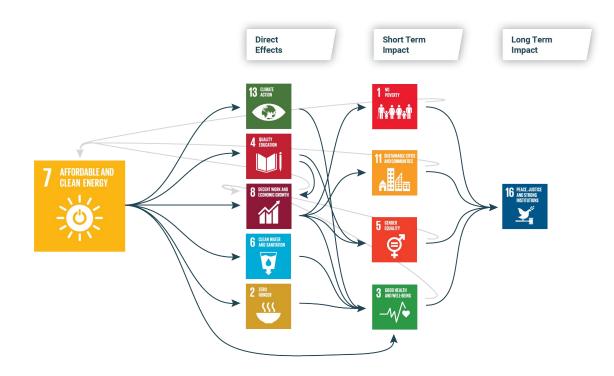


of the population do not have access to reliable internet²





Electricity as the main driver for sustainable development





Africa, a young & dynamic continent

25 % of the world's population will live in Africa by 2050^{1}

> 70 % of Africa's population is under the age of 35 (995 M people)²





Africa, continent of economic opportunities

In 2022, African startups attracted **\$7B** funding¹

X4 is the projected increase in Africa's collective GDP by 2050²

53 of Africa's 54 countries posted **positive growth**³





Challenges also represent opportunities

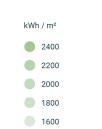
McKinsey estimates that **\$835 billion** of investment is needed to meet sub-Saharan Africa's energy needs by 2040.



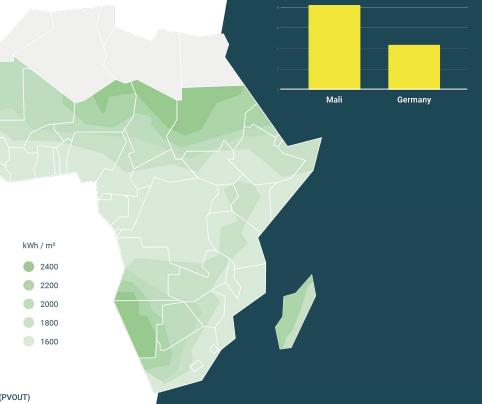
The power of Sub-Saharan Africa

A continent with a vast innovation potential

Innovation in intelligent and sustainable infrastructure technology is the next big global market opportunity.



Free sun power SSA Mali: 8.22 h/day

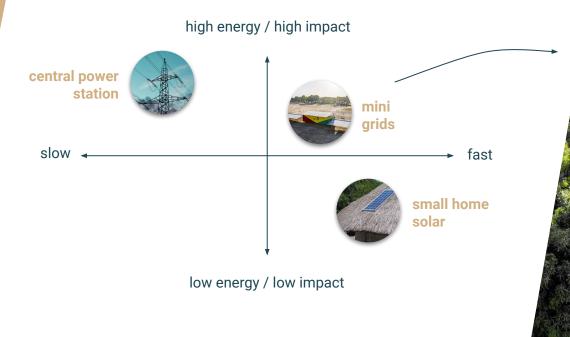




Solution

Mini-grids

Decentralized PV + battery systems are the most eco- & cost-effective way to electrify and empower Africa.









Nassou Oumar - "Serial entrepreneur"

Without electricity it is impossible to turn my ideas into reality, electricity is the foundation of everything. Electricity enabled me to increase my productivity by 70% and then to open a restaurant, where I was able to hire six people.







Diessira Diallo - Kiosk owner

Now, I not only throw away less food, but I also attract new customers. They come to buy cooled products and then hang around - my shop has become a meeting point for the village and my income has multiplied.







53 %

of the population in sub-saharan Africa is employed in Agriculture.*

Bara Ndiaye

Farmer who moved back to his home village to invest in local food production.





Millions of people like Bara have an enormous growth potential

The median income of a person in Mali is \$863 per year according to the World Bank. By purchasing a diesel-powered water pump it is possible to increase the harvest and the turnover over $3000 \notin$ year, but:



water pump

275 €

monthly operating costs for the diesel



of the fruit and vegetable harvest goes to waste





PumpUP[®] – Solar water pump systems for impact and profit



costs

275 €

monthly operating costs for the diesel

200 € 3 years monthly leasing later he owns the

later he owns the solar water pump system





Cooltainer[®] – mobile cold storage for impact and profit





40-50 % 100 % income increase

losses

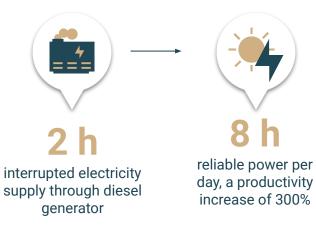
income increase possible due to preserving through cooling 22,50 €

monthly usage fee to rent a box in the Cooltainer (room for up to 60 boxes)





"My old diesel generator was too expensive and constantly failing."





savings on energy costs





My old diesel generator was constantly failing and too expensive. Now I have a lot more orders than before. Ever since this boost, I have hired several young people and now I employ over 20 people in total. To me, my business means independence, self-sufficiency and freedom.

Modibo Traore - Welder

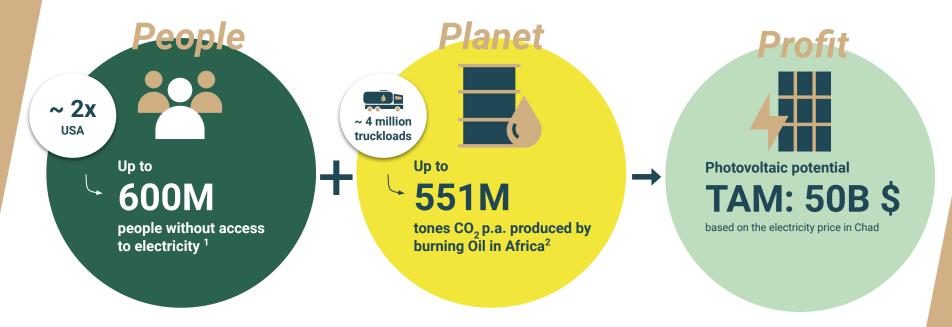






Market and Impact Potential

In our business model: people, planet & profit are NOT contradictory, but mutually dependent





Let's do - not talk





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We don't need to turn our whole economic system upside-down to help people People, planet and profit can come together. For this it is critical that the needed energy for growth is provided by renewable energys. If we act ourselves instead of just talking or waiting for politicians to decide, we can make a difference.



Get in touch



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WE DO.

