



ignite

2022 Impact Report

Igniting Sustainable Change

Ignite Power connects last-mile, hardest-to-reach communities across Sub Saharan Africa to clean, sustainable, and affordable solar solutions. The company's primary goal is to alleviate extreme poverty in bottom-of-the-pyramid societies through solar power, technology, and inclusive financing schemes.

Today, Africa remains the last frontier of global development, with hundreds of millions across the continent lacking access to the most basic services, including electricity, clean water, financial services, healthcare, and more. The continent's exponential population growth rate, set to encompass 25% of the global community by 2050, accelerates the need for scalable solutions. Ignite addresses these needs head-on, striving to reach an inclusive reality in the most sustainable manner possible.

Ignite's impact on local communities reaches far beyond sustainable electricity. The company is in constant communication with customers in order to evaluate the impact and see what services would establish further positive change. Today, Our solar solutions reach far beyond electricity, providing irrigation systems that support food security and higher income, clean cooking solutions that provide a healthier environment inside the home, and healthcare equipment and solutions that empower rural clinics and patients.

100 households were surveyed during the making of this report, focusing on solar home systems and solar irrigation systems. Customers reported a higher sense of security after dark, and fewer thefts of cattle and livestock, an increase in social activities and more time to add new hobbies added study time and higher grades and motivation for kids, better health due to lowered consumption of combustible fuels, new businesses and higher incomes.

Every solution deployed entails a comprehensive story of change and impact, and we share these stories with you.

Impact Highlight



Nakabonye Daforosa, 70, lives in Rusura Village in the Rulindo District. Since having the system she feels a lot safer at night.

Her granddaughter is able to do her homework after dark and is getting higher grades.

The radio helps her stay updated with the latest news and events around the country.

The solar torch allows her to walk outside her home after dark.



Solar Home Systems



EDUCATION

Prosperity Starts At School

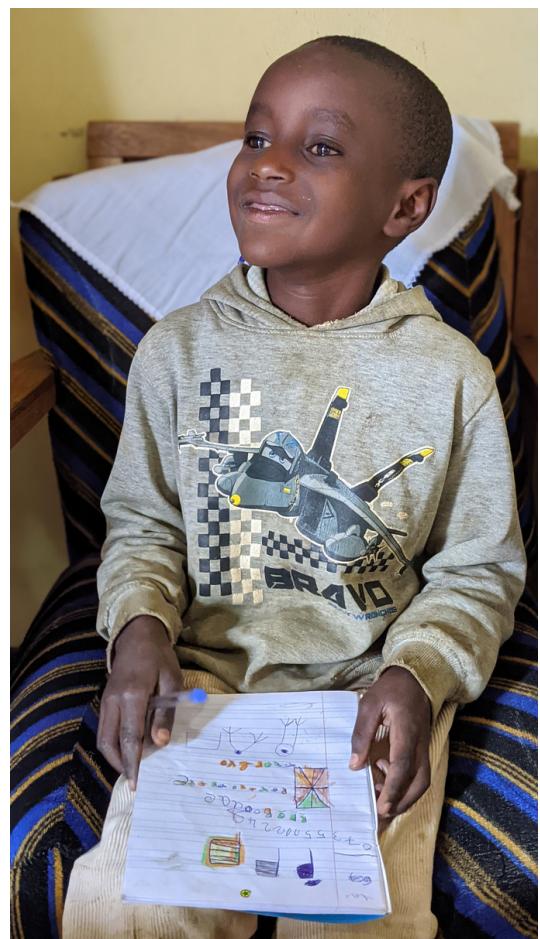
258 Million African children are not going to school, and those who go often suffer from low-quality teaching and learning, as well as inequalities and exclusion. The problem also affects gender equality, as girls are more likely to stay uneducated.

As Africa continues its growth trajectory, expected to encompass 25% of the global population by 2050, quality education is crucial in establishing a thriving, inclusive society. Access to decent schooling promotes economic growth by providing skills that increase employment opportunities and income. Each additional year in school increases earnings by roughly 10%.

Electricity is crucial for proper learning conditions. Children can study, read, and do their homework after dark. Electricity allows phones to be charged, providing the kids with educational materials they can view together. According to Ignite's customers, the added hours go a long way in adding motivation while the kids get better grades.

kids doing their homework in Agati Library, rural Rwanda,





Nyamagabe, rural Rwanda, Mukakarisa does his homework

84%

say their children
are getting better
grades

93%

say their children
have more time to
study and do their
homework.

FINANCIALS

Getting out of the poverty cycle

Our customers live in the rural, hardest-to-reach villages of sub-Saharan Africa, encompassing the most impoverished communities in the world. Living in extreme poverty conditions with under \$1.9 daily budget, Ignite's audience comprises smallholder farmers and small shop owners that use their homes for conducting much of their business.

With electricity and light, farmers can sort their crops after dark, preventing vegetables and grains from rotting, adding meaningful amounts to their income.

Extra waking hours allow entrepreneurialism and creativity to flourish, leading many to start new businesses and ventures, including small bars and kiosks, crafts and art shops, and more.

Gabriel, from Ruhango in rural Rwanda has doubled her income, selling more products in her shop





Berenadeta from Ruhango in rural Rwanda started a business for woven materials

80%

Say their income increased

38%

Say their income more than doubled

98%

say they have more time to work

16%

say they started a new business

HOME LIFE

Safe, healthy, happier families



Living without basic infrastructure is extremely hard in every imaginable aspect. Women and girls are in charge of procuring combustible fuels for heating, cooking, and lighting, spending up to 8 hours a day on the tedious task. Mothers have less time to spend with their children, and girls are often hindered from education or decent work opportunities.

Having electricity is, in its most basic form, a big time-saver, providing families with more quality time to spend with each other. The light also provides a sense of security, prevents thefts, and gives more time for socializing and developing new hobbies. Women and girls do not have to spend hours every day procuring wood and coal and have more time and energy for education and entrepreneurial activity.



100%

say the system
changed their
lives for the
better.

92%

say they feel
safer in their
home

100%

say they
spend more
time with
family and
friends

Impact Highlight

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Nsabimana Deogen, 29, lives in Nyirabirori in the Rulindo district, growing pigs and farming maize for a living.

Since having the system she and her family feel safer in their home, and Deogen can cook dinner and feed her pigs after dark.



Deogen has time to sort her crops after sunset, leading to lower rot and higher income. Her kids have time to study and do their homework, leading to higher motivation to succeed in school.

Solar Irrigation Systems



YEILDS AND CROPS

Establishing food security for millions

Agriculture is Africa's largest sector, responsible for more than 23% of GDP and 68% employment. Yet only 6% of arable lands are adequately irrigated, leading to extremely high inefficiency, low crops, low income, and food insecurity for hundreds of millions.

Current irrigation methods include rainwater and expensive, highly polluting diesel pumps. Ignite's solar-based irrigation systems allow farmers to tap into their lands more efficiently, leading to as much as 3x yields, and longer harvesting seasons, up to 1.5x.



Raouf Said, from Rwamagana in rural Rwanda has more than doubled his yield

58%

say their yields increased by x3 or more

33%

say their yields doubled

YAHOPROC Cooperative, in Rulindo District, the pump is used by 245 people



INCOME

Larger crops, higher wages

Harvest grew by 3x, operating costs are down, adn the systems are highly efficient with water consumption



Our solar irrigation systems are accessible through a designated, inventive business model, designed to fit the specific needs of sub-Saharan Africa's smallholder farmers. The Pay-As-You-Grow model allows farmers to pay only during harvest and according to growth in yield.

With higher yield, longer harvesting seasons, and added time to sort crops at home, income is steadily rising and food security is rising.



100%

say they spend less than they used to on irrigation

41%

say their income grew by x3 or more

33%

say their income doubled





Changing the world,
one family at a time.

ignite