

namene

Solar Lights Distribution Project in Zambia

Carbon credits



certified by **Gold Standard**

Harnessing solar energy to transform lives

Our project delivers solar lights to Zambian families living without electricity. This gives them truly affordable, clean lighting for the first time and has life-changing impacts. Currently, these households rely on dim and sooty kerosene lamps for lighting. Our project replaces these polluting lamps with ultra-affordable solar lights. This exchange alleviates poverty, promotes education, and safeguards the health of families. Crucially, this substitution decreases dependency on fossil fuels, eliminating ongoing fuel costs for low-income households and helping to address climate change.

Our lights are distributed to rural households across four provinces in Zambia, as shown below. In Zambia, 90% of the rural population live below the international extreme poverty line. These families live on less than \$1.25 per day. One of the many implications of this reality is energy poverty. With no access to electricity, families resort to using outdated kerosene lamps or paraffin candles to light their homes. These are low-quality and dangerous sources of light. Fossil fuel lamps emit toxic fumes that cause respiratory illnesses, create fire risks, and contribute to climate change.

Combining quality with affordability

Our portable solar lights are built to last and have won awards for their quality and accessibility. Thanks to the issuance of Gold Standard certified Verified Emissions Reductions or VERs, our lights are priced with a 60 to 70% discount on the retail value – making them affordable to all.

Our lights have gained a 90% market share in the pico lights market¹ in Namibia, Zambia and Zimbabwe, where our first carbon projects have been rolled out – showing that trust in the durability of the product, as well as affordability

made possible through our carbon subsidy model, are key to unlocking clean technology for those who need it the most.

Namene has distributed over 600,000 lights in Zambia since 2021, and over one million in southern Africa in total.

As a vertically-integrated company, we are able to control quality at every stage of our carbon projects: from the design and production of our products to their distribution, monitoring and after-sales service. Through our model we are also incentivised to keep our lights functioning to secure their associated credit, and to earn the trust and loyalty of the families who buy our products. Through our discounted lights which replace expensive kerosene lamps and candles, they are able to save money to purchase further clean technology products.

Empowering every community

Our lights are delivered by our in-country teams, as well as last-mile distribution partners. They are sold through community networks and regional clusters, such as rural schools.

Namene designs products to last as long as possible, and we provide maintenance support and tailored after-sales care to our buyers, including those living in the most remote locations. In doing so, we build long-term relationships with each of our customers based on trust and mutual benefits.

Our lamps are multifunctional and portable. They can be used indoors as desk lamps or hung on the wall. They can be turned into headtorches perfect to walking, cycling, or commuting. This project delivers a host of socio-economic benefits, with specific impacts measured against three UN Sustainable Development Goals.



Our Namene light has improved our life so much. I've seen improvements in my brother's education, and he has just graduated.

Pride Siamenenga, Namene customer and sales agent, Zambia

When the solar lights are on at night, it feels like a town, not a village. Now we no longer need to spend on expensive candles and kerosene.

Head Teacher at a rural school in Zinzongwe, Zambia

We can tell which children did their homework the night before: those who cough or have red eyes from the kerosene fumes.

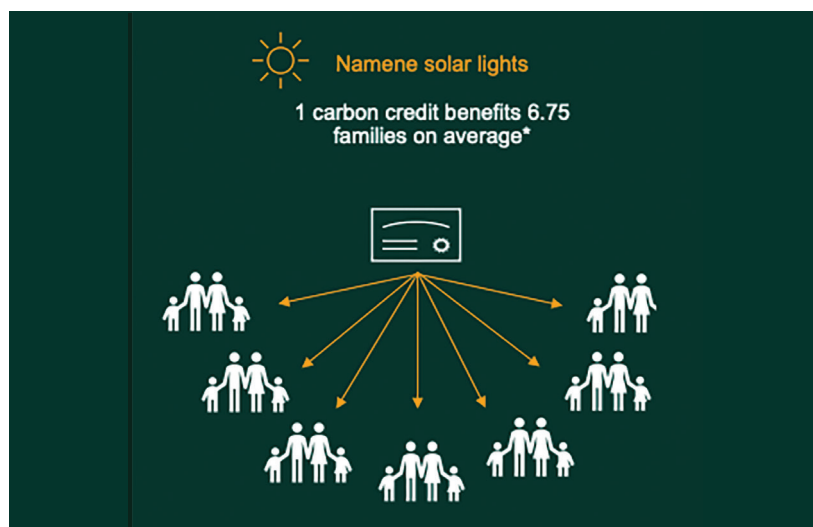
Teacher, Lourdes Pre-school in Mongu, Zambia

¹ 0 to 1.5w category for GOGLA affiliated products

Maximising social impact

Our solar light carbon projects generate a significantly higher social impact per carbon credit than other community project types or alternative PAYGO models.

This is what sets Namene's carbon credits apart.



* Each carbon credit requires 11 solar lights operating for 1 year, with 1.6 lights per family on average. (@92 Kg CO₂ light /yr as per the CDM carbon methodology).

Solar lanterns currently provide the most “bang-for-your-buck.” [...] The impact they create is often greater than that of higher-capacity systems. This is because [...] these small but mighty products are the first step up the modern energy staircase.

Why off-grid energy matters – report by 60 Decibels, Feb 2020
www.60decibels.com

High-integrity carbon credits

Namene is committed to making a measurable, transparent and positive impact with our carbon credits.

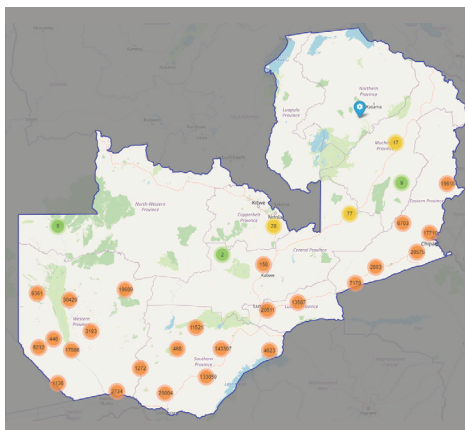
In addition to Gold Standard's requirements, we apply a stringent internal audit process which goes beyond these requirements – with higher frequency monitoring and surveys, increased product warranty periods, and ongoing customer engagement campaigns to guarantee the emissions reductions created by our projects.

We use a customised digital tool that captures customer data at the point of sale, collects automated statistics into a central database and monitors the ongoing performance of our projects. We also conduct regular customer surveys.

Our focus is on tracking the impact of all Namene devices, including where and how they are used, and when they should be serviced for maximum efficiency.

We are also constantly improving the design of our products, with a usage reporting functionality built into models launched in 2023.

Namene partners with committed organisations who buy our VERs to complement, not replace, actual reductions in GHG emissions from their operations and value chain.



Visualisation of units deployed under the carbon project using Namene's bespoke monitoring systems.

Certified contributions to three SDGs



SDG 1: No Poverty

Our lights tackle poverty by saving household expenditure on lighting fuels and batteries. They also unlock extra study hours for children, which helps break the cycle of poverty.



SDG 7: Affordable and Clean Energy

Our project has made solar light truly affordable and provided access to over 1.7 million people.



SDG 13: Climate Action

Our project reduces greenhouse gas emissions by replacing fossil fuel-based lighting by clean pico solar lights. The project reduces on average 27,000 tonnes of CO₂e annually.

Additional project impacts

Light quality – Fossil fuel lamps typically produce 10 lumens of light. Our solar lights produce 34 lumens.

Education – Extra study hours for children, which supports higher grade attainment.

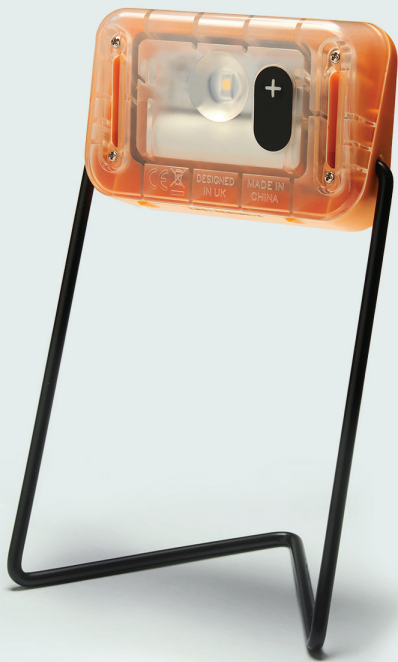
Health – Better air quality in homes, protecting families' respiratory systems, and brighter lights that avoid straining eyes.

Road accidents – Visibility of pedestrians and cyclists at dusk, dawn, and night.

Safety – Fossil fuel lamps are dangerous to ignite and pose poisoning risks to children. Solar lights can also help women be safe when outside at night.

Income generation – We offer employment opportunities through our project. Extension of the light hours also enables new income generating activities. The project has generated 122 jobs locally.

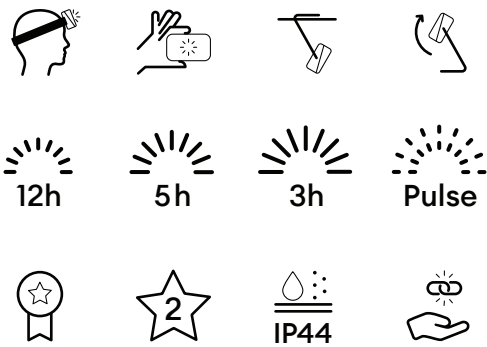
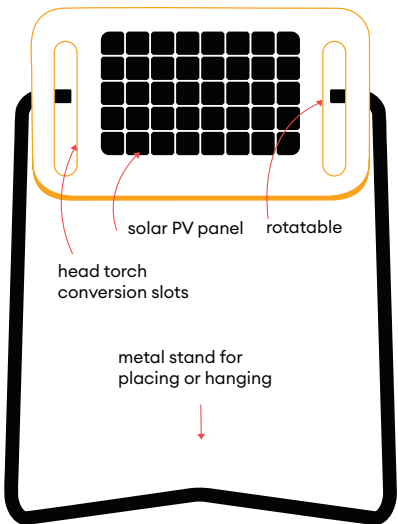
Project Details



Project owner	Namene
Carbon Standard	Gold Standard [®] for the Global Goals
Project ID	GS 7002
Carbon methodology	AMS-III.A.R v6 – Substituting fossil fuel-based lighting with LED/CFL lighting systems
Certification stage	GS Design Certified Issued 10,000 VERs so far
Development stage	Distribution completed. 600,000 solar lights.
Technology	Renewable energy – solar lights
Project scale	Small scale. Distribution of up to 652,000 solar lights
Target beneficiaries	Rural households without access to electricity
Project duration	10 years
Crediting period	15/09/2020 – 15/09/2025
Average VERs per year	27,000 VERs

Our technology

Portable, reliable, high-quality solar lights



- Meets VeraSol IEC 62257-9-8 standard, CE, PVoC
- 2-year warranty
- Resists solid objects over 1.0 mm and water splashes from any direction



About Namene

Our purpose is to empower every community through clean technology.

Namene is a business that believes people and planet should come first. We provide affordable, highly reliable, everyday devices to those who need them the most – harnessing clean technology to transform lives and livelihoods.

Without ever compromising on quality, we make sure our products are always affordable and accessible to all by using their carbon-saving value to subsidise prices through the sale of high-integrity carbon credits, and enabling our customers to buy what they need when they are able to.

Our 'Buy As You Can' approach offers a much needed alternative to traditional utilities packages, which are most often not affordable to low-income families, or when they are, commit households to purchasing bundles of overspecified products through expensive, long-term loans. By offering single, modular and affordable products, we enable our customers to free up income to buy other clean devices when they need and can afford them.

All devices distributed by Namene are designed to help people and families thrive, wherever they live, by meeting their daily utility needs while eliminating sources of combustion – starting with eradicating harmful kerosene lamps.

Sales Contact

Mulenga Chanda
Country Director - Zambia
mulenga.chanda@namenesolar.com
+260 978 491 154

Climate Contact

Bernardo Lazo
Head of Climate
bernardo.lazo@namenesolar.com

General enquiries

climate@namenesolar.com

Zambia

Plot 5489, Lunsemfwa Road,
Kalundu (Opposite Asmara Hotel)
Lusaka, Zambia

Namene

Namene Solar Lights Ltd.
51 Holland Street, London
W8 7JB, United Kingdom



@wearenamene
namenesolar.com