

# Solar Lights Distribution Project in Zimbabwe

Developed by Namene Solar Lights Ltd. October 2022

## Changing Lives with Solar Lights in Zimbabwe

The Namene Solar Lights Distribution Programme Southern African Countries - Zimbabwe project has been designed to provide clean sources of lighting to the population without access to electricity. The programme will do so by distributing ultra-affordable pico-solar lights to rural households that currently rely on the use of kerosene and other fuels for lighting in the provinces of Mashonaland East, Mashonaland West, and Masvingo.

Currently in Zimbabwe, there are 8.5 million people without access to electricity, representing 59% of the country's population. This is exacerbated in rural households, where the percentage without electricity is 80%, meaning 1.2 million households are without energy access. While some progress has been achieved in recent years, the rate of electrification is unstable, unaided by an increase in population growth, particularly in rural areas.

This project is a private sector initiative led by Namene Solar Lights and being supported by private investment and underpinned by market-based environmental financing mechanisms that provide the speed and capacity needed to scale the programme in Zimbabwe.

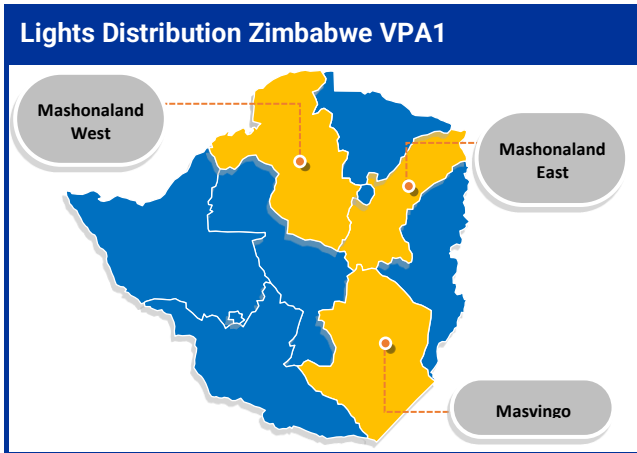
## Replacing Fossil Fuels with Solar Lights

We believe in solar power. We believe it should be accessible to all. Our lights enter rural markets at significantly subsidized prices, breaking the affordability barrier for solar lighting. With this subsidy, we aim to reach rapid adoption and high market penetration. Lights are delivered by our network, as well as last-mile distribution partners. They are sold through community networks and regional clusters, such as rural schools.

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. They eliminate the continuous cost of fuels, facilitate studying for children, and keep families safe. They lift people out of poverty. See below for a list of their benefits.

Our lights are 100% powered by the sun. From the moment they are deployed, they provide modern lighting and clean air to breathe.



## Project Details

<b>Project Owner and Developer</b>	Namene Solar Lights Ltd
<b>Carbon Standard</b>	Gold Standard for the Global Goals
<b>Project ID</b>	GS PoA 10875 GS 11343
<b>Carbon Methodology</b>	AMS-III.A.R v7 - Substituting fossil fuel-based lighting with LED/CFL lighting systems
<b>Certification Stage</b>	Certified
<b>Development Stage</b>	Distribution
<b>Technology</b>	Renewable energy – solar lights
<b>Project Scale</b>	Small scale. Distribution of up to 652,000 solar lights
<b>Target Beneficiaries</b>	Rural households without access to electricity
<b>Project Duration</b>	5 years
<b>Crediting Period</b>	March 2022 – March 2027
<b>Average VERs per year</b>	35 000 VERs



**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.



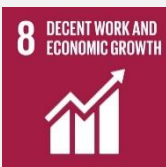
**SDG3: Good Health and wellbeing**  
*The project will reduce Reduction of household air pollution by decreasing household black carbon emissions. Indoor air quality is improved when lighting from kerosene lamps is replaced with solar lighting.*



**SDG4: Quality Education**  
*The project aims to hire people from the local communities to perform vital roles in distribution of the Project Lamps, such as in sales and using the monitoring system as well as technical after sales service. We aims to provide vocational and technical training sessions to these employees in order to increase their skills that can be used even when the project is complete.*



**SDG 7: Affordable and Clean Energy**  
Our project makes solar light truly affordable and accessible to over one million people in Zimbabwe.



**SDG8: Decent work and economic growth**  
*Namene Solar creates employment opportunities in each country where it operates, in sales, monitoring or after-sales services, as well as management.*



**SDG 13: Climate Action**  
Our project reduces greenhouse gas emissions by replacing fossil fuel-based lighting to a clean pico-solar light.

**About Namene Solar**

Namene Solar believes in solar power without limit. Our purpose is to bring everyone, everywhere access to clean, affordable energy. We do this by connecting people to the sun to power their lives.

As solar specialists, we provide solar solutions of all sizes. From our award-winning solar head torch, to fully financed end-to-end solar installations. For the growing number of people choosing to power their homes, lives, and businesses with solar energy, Namene Solar enables their transition.

By changing the way people study, work and play we can fight climate change together with sustainable lights that work for people and the planet.

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**Additional Project Impacts**

The simplicity, quality, and affordability of our solar lights empower socio-economic development. Families report on a range of benefits:

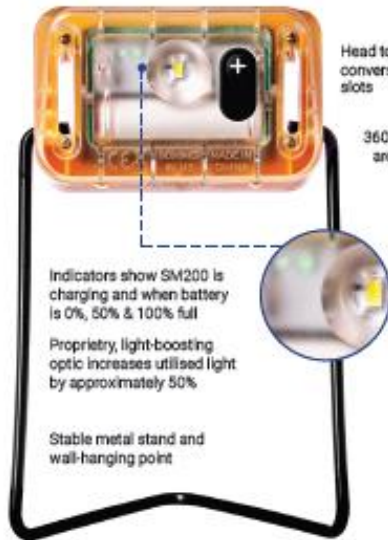
- Light quality** - fossil fuel lamps typically produce 10 lumens of light. Our solar light produces 34 lumens.
- Education** – extra study hours for children, which supports higher grade attainment.
- Road accidents** – visibility of pedestrians and cyclists at dusk, dawn, and night.
- Safety** – fossil 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** –Extension of the light hours also enables new income generating activities.

# SM200 Solar Light

## Technical & functional data

All-in-one solar head torch, lamp and learning light

- 2 year warranty
- super bright mode (50 lm)
- max. per daily charge (15 lm)
- VeraSol certified



- Main modes:**
- Bright
  - Brighter
- Special modes:**
- Super Bright
  - Pulse

Mode	Brightness (lumens)	Solar run time (hours)	Full battery run time (hours)
Bright	15	12	21
Brighter	35	5	8.5
Super Bright	50	3	5.5

- Solar PV panel: 4V, 75 mA, Polycrystalline, integrated mounting
- Battery: 500 mAh, 3.2V, LiFePO<sub>4</sub>
- LED light source: 0.5 W cool-white LED
- Ingress protection: IP44 - resists solid objects over 1.0mm and water splashes from any direction
- Tough build quality: UV-resistant, impact-resistant & fire-retardant PC-ABS casing
- Certifications: Meets VeraSol IEC 62257-9-8 standard, CE, PVoC
- Included as standard: Positionable metal stand, Mounting slots for straps, Cardboard sleeve, Instructions & warranty info
- Dimensions & Weight: 58 x 89 x 22 mm, 73 g (without stand), 165 x 105 x 74 mm, 125 g (with stand)
- Logistics: 24 SM200 lights per box, Box: 380 x 230 x 160 mm, 1440 SM200 per master carton, Pallet + master carton: 210 Kg, 1200 x 800 x 1180 mm

Namene Solar delivers solar power without limit. We want to bring everyone, everywhere access to clean, modern energy by connecting people to the sun to power their lives.

No solar light is too small to make a difference. Our SM200 follows our award-winning SM100, the popular head torch designed for off-grid. For more information, please visit: [www.namenensolar.com](http://www.namenensolar.com)