



Photon Power

Perfection With Expertise

COMPANY PROFILE



Ruaraka Square F1, Thika Rd
Phone: (+254)710112420
info@photonpower.co.ke
www.photonpower.co.ke

ABOUT US

Photon Power is based in Nairobi, the capital city of Kenya, and serves as a one-stop company for all solar energy and electrical engineering solutions. The company provides reliable solar alternatives to address energy challenges brought about by climate change, instability in international oil markets, the rising cost of hydroelectric power (HEP), and surging LPG gas prices. Our mission is to promote environmental justice by driving the adoption of 100% green energy across East and Central Africa.

We are committed to offering technical training and ongoing support for all our equipment, ensuring clients enjoy maximum performance and durability from their investment. Photon Power sources high-quality brands from around the world—built with cutting-edge technology and tested for Sub-Saharan African conditions. We also provide professional installation services, custom in-house system designs, and collaborate with partner brands on large-scale projects, all at competitive pricing.

VISION

To be the leading company in offering affordable and climate-friendly energy solutions to our clients.

MISSION

To be a company committed to delivering innovative energy solutions relevant to 21st-century needs.

Core Values | Why Choose Photon Power

OUR CORE VALUES

At Photon Power, we are guided by principles that define our daily operations and long-term vision.

- ◆ Excellence

We deliver the highest standards in all aspects of our work – from system design to customer support – creating a culture of performance and reliability.

- ◆ Innovation

We embrace modernization by nurturing fresh ideas and investing in research and development. Our goal is to stay ahead with forward-thinking energy and automation solutions.

- ◆ Accountability

We honour our commitments, take responsibility for our actions, and strive to exceed client expectations in every project.

- ◆ Integrity

Our engagements are transparent, legally binding, and mutually beneficial. We maintain honesty, fairness, and professionalism in all our interactions.

OUR CORE VALUES

- ✓ Technically Competent Team

Our team is composed of highly skilled engineers and technicians with deep knowledge of energy systems in East and Central Africa.

- ✓ Tailor-Made Solutions

We don't offer one-size-fits-all answers – we study your needs and design solutions that suit your specific requirements.

- ✓ Top-Tier Technology

We partner with globally recognized brands, using the best technologies adapted to Sub-Saharan conditions.

- ✓ Full Project Cycle Support

From consultation and design to installation and after-sales service, we walk with our clients every step of the way.

- ✓ Environmentally Driven

We are passionate about green energy and committed to promoting sustainable development through every project we undertake.

Our Services

At Photon Power, our core focus is on solar energy solutions – designed to provide sustainable, cost-effective, and reliable power alternatives for homes, businesses, and institutions. Beyond solar, we also offer specialized services in electrical engineering, surveillance, automation, and water pumping systems.

We deliver custom-engineered systems that adapt to East Africa's energy demands and environmental conditions, ensuring long-lasting performance and minimal maintenance.

Our approach is client-centered and impact-driven – we don't just install equipment, we solve energy challenges. Whether it's reducing diesel generator dependency, improving access to clean water through solar pumping, or enhancing property security with smart systems, we bring together engineering precision, modern technology, and local expertise to deliver dependable results. With every project, Photon Power aims to empower communities, reduce environmental impact, and build a brighter, greener future for generations to come.



BRIEF OF OUR SERVICES

Solar Energy Solutions

We specialize in solar technologies tailored for diverse energy needs – from basic lighting systems to large-scale solar infrastructure. Our solar offerings include:

- Solar Lighting & Installation
- Solar Backup Systems & Storage
- Solar Water Pumping Systems (ideal for agriculture and off-grid areas)
- Solar Water Heating Systems
- Solar-Powered Borehole Pumps
- General Purpose & Solar Batteries



At Photon Power, our core focus is delivering cutting-edge solar energy solutions designed to meet diverse energy needs. We offer a range of solar technologies, from simple lighting systems to large-scale infrastructure, ensuring sustainable energy access for both urban and remote locations.

BRIEF OF OUR SERVICES



Electrical & Power Engineering

Our electrical services ensure stable, safe, and optimized power for residential, commercial, and industrial use. We provide:

- Power System Design & Installation
- Backup Generator Sales & Servicing
- Power Quality Analysis & Energy Audits
- Pump Sizing & Electrical Integration
- Onsite Repair, Troubleshooting & Emergency Support

At Photon Power, our electrical and power engineering services are designed to ensure a stable and efficient power supply for various sectors. We focus on providing tailored solutions that enhance the overall safety and performance of electrical systems. Whether it's optimizing power systems for commercial buildings or ensuring smooth electrical operations for industrial complexes, we ensure that all components are well-integrated and functioning optimally. Our expertise also extends to power quality analysis, identifying inefficiencies and providing energy audits to help businesses reduce costs while maintaining reliable power sources.



In addition to traditional electrical services, we provide critical backup solutions, including generator sales and servicing, to protect against power outages. Our team is always ready to troubleshoot, offer onsite repairs, and provide emergency support, ensuring minimal downtime and optimal system performance.

BRIEF OF OUR SERVICES

Surveillance & Automation Systems



Security is integral to sustainable living. Photon Power offers modern, technology-driven surveillance and access control systems that enhance safety and efficiency across all sectors.

Our solutions include:

- CCTV Surveillance Systems
- Access Control Systems
- Remote Monitoring & Automation
- Smart Energy Control Systems



Whether you're managing a home, office, or industrial facility, we design and deploy systems that ensure real-time visibility and remote accessibility.

BRIEF OF OUR SERVICES

Technical Support & Consulting Services

Our commitment doesn't end at installation. We walk with our clients through system performance, expansion, and maintenance.

We offer:

- Onsite Repairs & Troubleshooting
- Preventive Maintenance Programs
- System Health Checks & Optimization
- Technical Advisory
- Emergency Power Restoration Support

Our support team is always ready to respond with precision and professionalism.



BRIEF OF OUR SERVICES

Pumping Systems

We design and install efficient, reliable pumping systems powered by both solar and conventional energy sources – built to perform in diverse field conditions.

We offer:

- Solar Borehole Pumping Systems
- Submersible & Surface Pumps (AC/DC Options)
- Irrigation and Transfer Pumps
- Pump Sizing, Design & Installation
- Pump System Upgrades & Troubleshooting

Our pumping solutions are tailored for maximum uptime, low operational cost, and seamless integration with existing infrastructure.



Our pumping systems are engineered to support a wide range of applications, from agriculture and irrigation to industrial and domestic needs. By integrating solar and high-efficiency pump technologies, we help clients overcome water access challenges in areas with limited or unreliable power. Every system is designed for durability, scalability, and minimal maintenance, ensuring long-term performance in even the most demanding environments.



PROJECTS



Karen Solar Hybrid System – Nairobi City County

Project Type: Residential Hybrid Solar Installation

System Size:

- 4.92 kWp Solar PV
- 14.4 kWh Lithium Battery Storage

In the leafy suburbs of Karen, Photon Power implemented a premium hybrid solar solution tailored for residential comfort and energy independence. The system combines high-efficiency solar panels with substantial lithium battery storage, ensuring uninterrupted power throughout the day and night.

Equipped with smart energy management, this installation offers clean, quiet, and reliable power—reducing reliance on the grid while enhancing long-term energy savings and sustainability.

Let me know if you'd like to include the inverter specs or any special client requests that were met!

PROJECTS



Chaka Solar System – Nyeri County

Project Type: Commercial Hybrid Solar Installation

System Size:

4.36 kWp Solar PV

10.24 kWh Lithium Battery Storage

Photon Power provided a hybrid solar solution for this hotel in Chaka, designed to meet the facility's energy needs sustainably. The system includes high-efficiency PV panels, lithium battery storage for energy optimization, and a smart control unit for real-time energy performance monitoring.

This solar installation powers the hotel efficiently, reducing electricity costs and aligning with its commitment to sustainability while ensuring reliable, continuous energy supply.

PROJECTS



Kisii Power Backup System

Project Type: Commercial Lithium Battery Backup

System Size:
20.16 kWh Lithium Battery Storage

In the heart of Kisii Town, Photon Power deployed a robust lithium battery backup system designed to provide seamless power continuity for commercial operations. The 20.16 kWh storage capacity ensures reliable energy during outages and peak demand periods, minimizing disruptions and safeguarding productivity.

Built for efficiency and reliability, this backup system supports smooth business operations with quiet, clean, and smart energy storage technology.

PROJECTS



Borehole Solarization in Muriri, Meru County

Photon Power successfully solarized a 2.2 kW 3-phase borehole pump in Muriri, Meru County, enabling reliable and sustainable water pumping for the local community. The system features high-performance solar panels tailored to meet the energy needs of the pump, ensuring continuous operation even during periods of limited grid availability.

This installation provides an eco-friendly, cost-effective solution for water access, reducing dependence on the grid and lowering operational costs while supporting the community's water needs sustainably.



PARTNERS





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