



Photon Power

Perfection With Expertise

COMPANY PROFILE





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 climatefriendly energy solutions to our clients.

MISSION

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

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.

WHY CHOOSE US

1. Technically Competent Team

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

2. Tailor-Made Solutions

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

3. Top-Tier Technology

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

4. Full Project Cycle Support

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

5. 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. and energy

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.



Solar Energy Solutions

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

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.



Electrical & Power Engineering

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.

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

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.



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

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.

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.

OUR 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



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.



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.

OUR PROJECTS



Borehole Solarization in Muriri, Meru County

Project Type:

System Size: A 2.2 kW 3-phase borehole pump



Residential solar PV system – Ngong

Project Type: Residential solar PV system

System Size: 8No. 565 Wp solar panels
2No. 5kWh lithium batteries
1No. 5 kW transformer-based solar hybrid inverter



Off grid residential client-Laikipia

Project Type: Off grid residential system

System Size: 4No. 725 Wp solar panels
1No. 5.12 kWh lithium battery
1No. 6 kW solar hybrid inverter

OUR PROJECTS



A residential Project. Limuru.

Project Type: A residential client with a dairy farm

System Size: 115No. 620 Wp solar panels
3No. 15 kVA Victron Quattro inverter chargers
1No. 27 kW Fronius PV inverter
2No. 450/200 Victron charge controllers
12No. 5.12 kWh BYD lithium batteries



Dairy farming solar powered in Kabarnet

Project Type: Hybrid Solar Installation

System Size: 30 × 590Wp panels
9 × lithium batteries
2 × 8kW hybrid inverters



Solar Water Pumping.

Project Type: Solarization of a borehole pump

System Size: 2.2 kW three phase borehole pump
using 16 pieces of 200 Wp solar panels and a
3.7 kW Hober solar water pumping inverter drive.

OUR PROJECTS



A solar PV system Project- Vipingo, Kilifi County

Project Type: Residential solar PV system

System Size: 417.36 kWp solar PV system with 64.28 kWh lithium battery storage



Solar installation for a school in Rongo

Project Type: Hybrid Solar Installation

System Size: 310 × 725Wp Solar Panels

8 × 545Wp Solar Panels

8 × 395Wp Solar Panels

3 × 10kWh Lithium Batteries

1 × 8kW Solar Hybrid Inverter

1 × External MPPT Charge Controller



A residential client in Vipingo, Kilifi County

Project Type: Residential solar PV system

System Size: 30 × 715 Wp bifacial solar panels

6 × 5.12 kWh lithium batteries

2 × 12 kW solar hybrid inverters

OUR PROJECTS



US Embassy residence in Rosslyn.

Project Type: Residential solar PV system

System Size: 417.36 kWp solar PV system with 64.28 kWh lithium battery storage



Small-scale commercial solar PV system in Meru

Project Type: Small-scale commercial solar PV system

System Size: 318No. 585 Wp solar panels, two 5 kW inverters connected in parallel, & a 5.12 kWh lithium battery



Residential solar PV system In Runda, Kiambu County

Project Type: Residential solar PV system

System Size: 42No. 715 Wp bifacial solar panels
12No. 5.12 kWh lithium batteries
2No. 12 kW 3 phase solar hybrid inverters

Grid only acts as a backup.

OUR PARTNERS



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Get In Touch



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Photon Centre, Ruaraka Square,
F1-A, Thika Rd, Same Complex
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