



Sundrop Energy
Founded in 2021.

COMPANY PROFILE

Engineering, design, procurement, construction
and lifecycle support for homes, businesses,
institutions, farms and remote operations
across Kenya.

TABLE OF Contents

Who we are	03
Our Work	04
Mission & Vision	06
What we offer	08
Our Products	10
Our Solutions	12
Our Process	14
Recent Projects	16

Who *We are*

Unreliable electricity, rising power bills and costly diesel generation can disrupt homes, businesses, institutions and agricultural operations. Sundrop Energy helps clients replace that uncertainty with properly assessed and engineered solar solutions.

Founded in 2021, Sundrop Energy is a Kenyan renewable energy company specialising in the engineering, design, procurement and construction of solar energy systems. Our headquarters are located inside Galana Energies Petrol Station along the Bungoma–Mumias Highway.

We serve clients nationwide, with a strong operational focus across Western Kenya, the North Rift and parts of Nyanza. Our solutions support homeowners, schools, hospitals, hotels, camps, commercial facilities, industrial operations, farms and communities seeking dependable energy, lower operating costs and improved control over their long-term power requirements.

Our *Work*

Our work goes beyond supplying solar equipment. Every project begins with an understanding of the client's energy challenge, site conditions, consumption patterns and operational priorities. We then assess, design and simulate an appropriate solution before proceeding to procurement, construction, commissioning and documentation.

This structured approach enables us to provide grid-tied, hybrid and off-grid systems that are tailored to the client rather than assembled from a standard package.

Whether the requirement is backup power for a home, energy-cost reduction for a business, an off-grid system for a remote lodge or solar water pumping for a farm, our goal is to create a system that delivers maximum energy production, dependable operation and an appropriate return on investment.



A Message from Our *Managing Director*

Energy reliability affects how families live, how institutions provide essential services and how businesses grow. When power is unreliable or unnecessarily expensive, the cost is felt throughout the entire operation.

Sundrop Energy exists to address these challenges through careful engineering, responsible project delivery and continued technical support. We do not view solar as a collection of panels, batteries and inverters. We see it as a complete operating system that must be properly assessed, designed, installed and maintained.

Our clients can expect practical advice, accountable execution and a long-term partner committed to the performance of their energy investment.

Makata Namasaka

*Managing Director
Sundrop Energy*

Energy Solutions Designed
Around Real Needs



Our Vision

To become a trusted hub for creative, efficient, environmentally responsible and cost-effective solar energy solutions in Kenya and beyond.

Our Mission

To imagine, innovate and create clean energy impact through engineering-led solutions that improve reliability, reduce energy costs and support sustainable growth.



Our Quality Policy

Quality at Sundrop Energy is not treated as a final inspection. It is incorporated into every stage of the project, from the first consultation and site assessment to system design, equipment selection, installation, commissioning and after-sales support.

Our engineers and technicians combine practical field experience with structured technical processes. Before recommending a system, we assess the site, review the client's energy demand and examine the conditions that may affect system production and performance.

The proposed solution is then designed and, where appropriate, simulated to establish a suitable capacity, operating configuration and equipment mix. This helps prevent common problems such as undersizing, unnecessary oversizing, incompatible components and unrealistic performance expectations.

During construction, our field teams work with defined system layouts, wiring plans, mounting requirements and safety procedures. Each completed installation is inspected and tested before handover.

Depending on the project scope, clients receive technical documentation such as single-line diagrams, wiring records, equipment layouts, mounting information, operation and maintenance manuals and completion reports.

This process gives clients greater confidence in the safety, performance and serviceability of their system. It also provides a clear technical foundation for future servicing, troubleshooting or expansion.

Our commitment continues after commissioning through workmanship warranties, manufacturer warranty support, repairs and ongoing operation and maintenance services.

What We Offer

Engineering & Design

01

A successful solar project begins with an accurate understanding of the site, the client's consumption and the problem the system must solve. Sundrop Energy conducts site assessments, reviews energy-use patterns and develops system designs suited to each client's technical, operational and financial requirements.

Our engineering process may include load analysis, system sizing, production simulation, mounting design, equipment selection and the evaluation of grid-tied, hybrid or off-grid configurations.

The result is a tailored proposal that explains the recommended system, expected functionality and the value it is intended to deliver.



Client's Benefit:

A properly sized solution that supports energy production, reliability and return on investment without unnecessary equipment costs.



Client's Benefit:

A complete, tested and documented system delivered through one accountable project partner.

Construction & Commissioning

02

Sundrop Energy manages the complete implementation process, including procurement, site preparation, mounting, electrical integration, testing and commissioning.

Our trained field teams use professional workwear, safety equipment and structured installation procedures suited to live project environments.

Before handover, each system is inspected and tested to confirm that its major components are installed and operating as intended.

Relevant project documentation may include single-line diagrams, wiring details, system layouts, mounting information, operation and maintenance manuals and completion reports.

What We *Offer*

Operation & Maintenance

03

Solar systems require proper monitoring and maintenance to sustain performance over time.

Through our Power Facilities Management Unit, Sundrop Energy provides servicing, troubleshooting, repairs, warranty support and ongoing technical assistance.

Our after-sales structure is designed around long-term partnership rather than one-time installation. We support systems supplied by Sundrop and can also assess or service eligible equipment from brands we work with, even when the customer originally purchased the equipment elsewhere.

This is particularly important for clients whose original installer is no longer available, is unable to diagnose the problem or limits support only to systems it supplied.



Client's Benefit:

Continued access to qualified technical support throughout the system's operating life.



Our Products

PV Modules



Our Brands

Jinko Solar
JA SOLAR

A wide range of high efficiency PV modules in various up-to-date technologies including monofacial, bifacial, half-cell and double-glass from some of the world's leading PV manufacturers

Hybrid Inverters

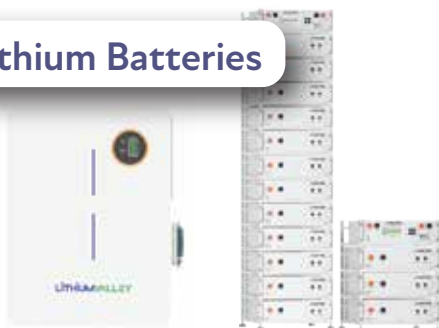


Our Brands

LIVOLTEK
Deye
 **solis**

An adaptable range of modern All-in-One Inverters blending high performance features of hybrid and offgrid inverters. Ranging from small home system inverters to commercial inverters providing excellent direct-consumption and back-up capabilities

Lithium Batteries



Our Brands

Lithium Valley  **VESTWOODS**
Deye  **solis**

Latest Lithium ion battery technology guaranteeing durability, high efficiency, reliability and performance. The batteries come in a wide range of energy storage capacities giving options for small home users, business and industrial applications.

Pumps



Our Brands

DOYIN®

Ranging from shallow well pumps to deep borehole pumps. Our pumps have the capacity to handle varying qualities of water owing to superior stainless steel rating and durable mechanical parts.

Our Products

Pumping Inverters



Our Brands



High efficiency direct consumption pumping inverter solutions, providing highly optimized day-time performance for shallow well, surface and borehole pumps. The inverters come with hybrid capabilities enabling seamless grid/genset hybrid integration

Sundrop Home Kits



Sundrop Home kits offer a range of home backup solutions suitable for 6-12 hours of home power backup. The kits are custom-made to power all your basic home appliances such as lights, charging, fridges, TVs, dispenser etc

Mounting Structures



We offer aluminium roof-mounting structures such as long rails, short rails, mini rails, special roof hook clamps, tile hook clamps, end and mid clamps

Balance of System



Our balance of system products DC and AC boxes custom-made with suitably sized breakers, fuses and surge protectors. These offer compact all-in-one-box solar systems protection.

Water Treatment



Our advanced water treatment solutions provide ultimate protection for both homes and businesses, ranging from compact residential undersink reverse osmosis units to high-capacity commercial plants and softeners. By removing up to 99% of harmful contaminants, our systems safeguard your health with pure, great-tasting drinking water while preventing costly scale buildup in expensive equipment.

Our Solutions



Power interruptions and rising electricity costs can make daily life unpredictable and place essential household equipment at risk.

Residential Solar Solutions

01

Sundrop Energy designs backup, hybrid and off-grid solar systems that help homeowners maintain essential power while reducing dependence on the national grid.

Each system is sized according to the appliances to be powered, expected operating hours, available roof or ground space and the level of backup required.

This prevents clients from paying for unnecessary capacity while ensuring that priority loads such as lighting, refrigeration, internet equipment, security systems, televisions and selected appliances remain operational during outages.



For businesses and institutions, high electricity costs reduce margins while power interruptions affect productivity, service delivery and customer experience.

Commercial & Industrial Solar Solutions

02

Sundrop Energy develops turnkey photovoltaic plants for commercial buildings, factories, schools, hospitals, hotels, mini-grids and other high-consumption operations.

Our systems are evaluated technically and economically so that decision-makers can understand expected energy production, grid-cost reduction, operational impact and potential payback.

The system design may combine solar generation, battery storage, grid supply and existing backup infrastructure depending on the client's operating requirements.

We manage the complete project lifecycle, from site assessment and design to construction, commissioning, documentation and maintenance.

Our Solutions



Diesel-powered or grid-dependent pumping exposes farms and communities to fuel costs, electricity interruptions and inconsistent water availability.

Solar Water Pumping Solutions

Sundrop Energy designs solar water-pumping systems based on borehole or well information, pumping head, required flow rate, daily water demand and storage capacity.

Correct system sizing ensures that the pump, solar array, controls and storage infrastructure operate together efficiently.

Our water-pumping solutions can support irrigation, livestock watering, dairy operations, tea and flower farms, domestic supply and community water projects.

By reducing dependence on diesel generators or costly grid electricity, solar pumping can improve water reliability while lowering operating and maintenance costs over time.



Water Treatment Solutions

Sundrop Energy also supports water-treatment applications using solutions like RO Systems among others, subject to the requirements and water-quality conditions of each project.

The recommended treatment solution should be based on appropriate water testing, intended usage and system capacity.

A Clear Path from Challenge to Working System

Our Process

01

CONSULT

For solar power projects, we review current electricity consumption, monthly costs, outages, operating hours, equipment loads and plans for future expansion.

For water-pumping projects, we review available borehole or well data, required flow rates, pumping head, daily water demand and storage requirements.

Client Outcome:

A clearly defined project requirement based on the client's real operating conditions.

02

ASSESS AND DESIGN

Where required, our team visits the site to confirm physical conditions, energy infrastructure, installation space and other technical requirements.

We then analyse the available information and develop an appropriate system configuration. The process may include system sizing, production simulation, and the comparison of grid-tied, hybrid or off-grid alternatives.

Client Outcome:

A tailored technical and commercial proposal showing what the system will do, how it will operate and why the configuration has been recommended.

03

BUILD & COMMISSION

Once the proposal is approved, we coordinate procurement, site preparation, installation, electrical integration, inspection, testing and commissioning.

Our technicians follow defined technical and safety procedures while documenting how the system has been installed and configured.

Client Outcome:

A fully installed and tested system ready for operation.

04

MAINTAIN & SUPPORT

Where required, our team visits the site to confirm physical conditions, energy infrastructure, installation space and other technical requirements.

We then analyse the available information and develop an appropriate system configuration. The process may include system sizing, production simulation, equipment selection and the comparison of grid-tied, hybrid or off-grid alternatives.

Client Outcome:

Continued technical support and a clear point of contact throughout the system's operating life.

Sectors *We Serve*



Residential

Backup, hybrid and off-grid systems that help households reduce electricity costs and keep priority appliances operating during KPLC outages and load-shedding.



Commercial and Industrial

Engineered solar plants that lower operating costs, improve energy predictability and give finance and operations teams a clearer basis for evaluating return on investment.



Healthcare

Reliable energy systems for hospitals and clinics where lighting, refrigeration, communication equipment and essential services cannot depend entirely on an unstable supply.



Education

Solar and backup systems that support classrooms, laboratories, computer facilities, administration, security and institutional operations.



Hospitality & Remote Camps

Quiet, dependable power for hotels, lodges and camps operating in areas where grid access is limited and diesel generation is expensive.



Agriculture

Solar power and water-pumping systems that support irrigation, livestock, dairy, tea, flower and other agricultural operations while reducing electricity and diesel costs.

Sundrop Energy
Clean Energy, Endless Future



Gedion Mosi Primary School, Voi

 www.sundropenergy.co.ke

GIVE POWER FOUNDATION

Recent *Projects*



Project Details

SOLAR OFFGRID SYSTEM TREK

10kWp 10kWh

COMMERCIAL



Kamwongo Health Center, Mwingi

GIVE POWER FOUNDATION

Recent Projects



Project Details

SOLAR OFFGRID SYSTEM TREK

10kWp 10kWh

COMMERCIAL

Aga Khan Medical Center, Bungoma

 www.sundropenergy.co.ke

Recent *Projects*



Project Details

SOLAR GRID-TIED SYSTEM
30kWp

COMMERCIAL

Musikoma, Bungoma

Recent *Projects*



Project Details

SOLAR BACKUP SYSTEM
5kWp, 20kWh Storage

RESIDENTIAL

Aga Khan Main Hospital, Mombasa

AGA KHAN HEALTH SERVICES

Recent *Projects*



Project Details

**SOLAR GRID-TIED SYSTEM WITH
GENSET INTEGRATION**

620kWp

COMMERCIAL



Aga Khan Support Services, Kisumu

AGA KHAN HEALTH SERVICES

Recent *Projects*



Project Details

**SOLAR GRID-TIED SYSTEM
WITH GENSET INTEGRATION**

86kWp

COMMERCIAL



Avoil Industries, Thika

 www.sundropenergy.co.ke

AGA KHAN HEALTH SERVICES

Recent *Projects*



Project Details

SOLAR GRID-TIED SYSTEM

300kWp

COMMERCIAL



H6 Jumeira Residency Nairobi

Recent *Projects*



Project Details

SOLAR BACKUP SYSTEM

8.5kWp, 20kWh Storage

RESIDENTIAL

Britam Towers, Nairobi

 www.sundropenergy.co.ke

BRITAM TOWER INC

Recent *Projects*



Project Details

**SOLAR GRID-TIED SYSTEM
WITH GENSET INTEGRATION**

300kWp

COMMERCIAL

RCMRD Nairobi

Recent *Projects*



Project Details

SOLAR BACKUP SYSTEM

30kWp

COMMERCIAL

Sarara Camp Samburu

Recent *Projects*



Project Details

SOLAR OFFGRID SYSTEM

44kWp 120kWh

COMMERCIAL



WFP Director's Residency, Kitisuru

 www.sundropenergy.co.ke

WORLD FOOD PROGRAM

Recent *Projects*



Project Details

SOLAR BACK UP SYSTEM
15kWp 30kWh

COMMERCIAL



CLEAN ENERGY

Endless Future



Galana Petrol Station Bungoma Town



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