

WATERLIFT
SOLAR

Equitable access to solar energy and borehole drilling

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COMPANY PROFILE

2025

WATERLIFT SOLAR

LIMITED

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ABOUT US

Waterlift Limited is a leading provider of solar energy solutions for diverse energy requirements. With a team of experienced professionals, we offer customized, efficient, and cost-effective solar energy solutions.

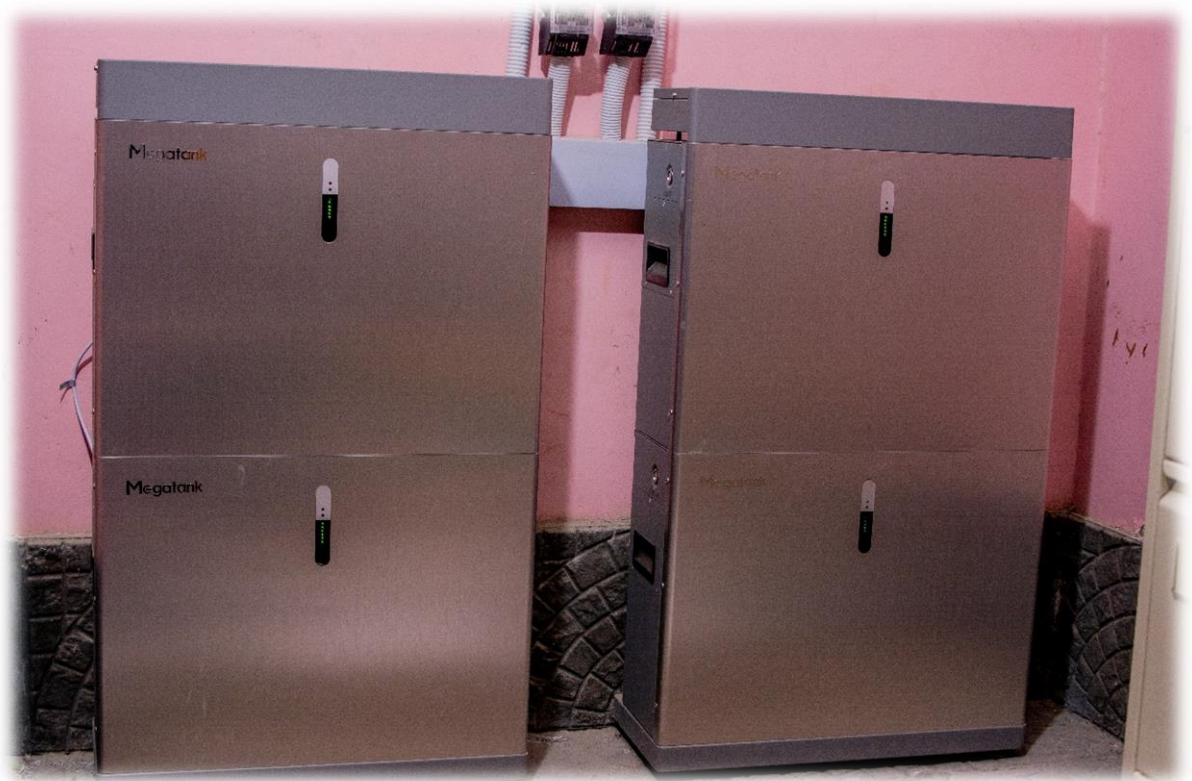
At **WATERLIFT SOLAR LIMITED**, we are committed to democratizing energy and making a positive impact on humanity by ensuring equitable access to clean, reliable, and affordable solar energy.

VISION

To deliver clean, reliable, and affordable solar energy to all

MISSION

To provide sustainable energy solutions through the optimization of solar energy.



WHY WATERLIFT?

QUALITY

We provide top-notch services, sourcing products from the leading manufacturers in the global market.

EXPERTISE

Our team has extensive experience in water and solar energy fields, supported by highly trained technicians who deliver outstanding services.

AVAILABILITY

We are always ready to serve you, offering products at competitive prices.

VALUE

All our products come with assured value, sourced from trusted manufacturers.

AFTER-SALES SERVICE

We provide after-sales support, including warranties for borehole equipment, solar accessories, and system upgrades.

OUR PRODUCTS/SERVICES

Waterlift offers a comprehensive range of renewable energy equipment for:

- Solar water pumping for water companies, irrigation, and domestic use.
- Grid-tied solar systems for light industries and commercial properties.
- Mini-grid solar systems.
- Backup systems for residential properties with storage.
- Water heating solutions.
- Solar system maintenance and upgrades.
- Distribution of energy products.



1. SOLAR WATER PUMPING

Access to safe, sustainable water supply is a growing concern in every region.

A solar powered water pumping system is like any other pumping system except its power source is solar energy

The solar pumping system is best accomplished by analyzing the following parameters: water demand, design flow rate, total dynamic head, and water storage. The pumping system consists of Solar panels, pump and motor, inverter and other electrical components.

a) For water companies

The supply of constant and reliable energy is of importance to ensure the provision of basic services such as water. In large number of water supply projects, water is pumped from boreholes or surface water to elevated storage tanks and fed into distribution systems using the force of gravity. The energy required for pumping water is dependent on generators or electrical grids that are unreliable, faulty or breakdowns leading to water shortages and high energy consumption resulting to high cost

b) For Irrigation

The solar powered irrigation systems are used to operate pumps for the abstraction and distribution of water for irrigation purposes



C) For boreholes

Solar water pumps are pumps that use power from the sun to draw water from deep boreholes, shallow wells or dams and pump up to a storage tank or to a certain destination.



2. TIE GRID SOLAR SYSTEMS FOR LIGHTING INDUSTRIES AND COMMERCIAL PROPERTIES

A tie grid solar system is a solar energy setup that maintains a connection to the electricity grid. These systems generate electricity from the sun but rather than storing excess energy in batteries, they export it to the larger utility grid. If the industry or commercial property requires more power than what is available from the solar panels, the power is imported from the utility grid.

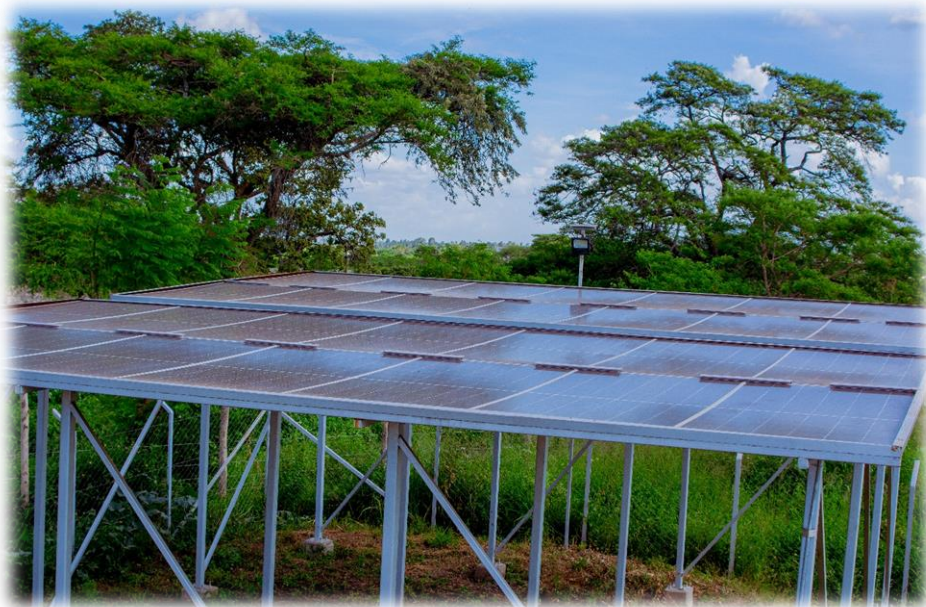
Tie grid solar system components:

- ✓ Solar panels-These collect the sun's energy and produce Direct Current (DC) electricity which can then be converted into Alternating Current (AC) electricity you need to power
- ✓ Solar Inverter-The inverter converts the DC electricity from solar panels into AC electricity; the form required for the appliances and other electrical devices.
- ✓ Mounting- This secures and stabilizes panels on your roof or the ground.
- ✓ Wiring -This is the connection between the solar panels and the inverter.

Tie grid solar system benefits is leveraging net metering; this is earning bill credits for excess solar energy exported from your solar panels to the utility grid. This can significantly reduce the utility bills and some even pay off their monthly charge

3. MINI GRID SOLAR SYSTEMS

Solar mini grid systems are an ideal alternative to grid power in remote areas. It provides high quality uninterrupted power.



4. BACKUP SYSTEMS FOR RESIDENTIAL PROPERTIES WITH STORAGE

A solar power back up system is a great way to ensure that one has reliable power. It is relatively cost effective and eco-friendly.

The system typically includes solar panels, inverter and a battery storage system. The solar panels absorb energy from the sun which is converted into DC electricity which is stored in the batteries. The inverter converts the DC from the battery into AC electricity that can be used to power your home and appliances.



5. WATER HEATING SOLUTIONS FOR RESIDENTIAL AND COMMERCIAL

Solar water heater is a cost effective way to generate hot water for your home, hotels and any other properties.

The heaters use the sun to heat the water in the collector. The heated water is then stored in the storage tank ready for use with a convectional system providing additional heating as necessary. The tank is very well insulated to make sure what is achieved is maintained.



6. SOLAR SYSTEM MAINTENANCE AND UPGRADE

Solar panels are a great investment that can provide one with cheap, renewable energy for 25 years or more.

Solar require very little maintenance in order to function. The main thing they need is cleaning to make sure dirt, leaves and other debris aren't obstructing the sun rays.

A solar system upgrade can either be a repairing or an alteration. One can repair specific parts that are worn out this aims at restoring the system to the initial standards that existed at the time of installation.

The alteration is a strategic change in the way the system works this includes a few replacements or additions of panels, inverters or batteries. The alteration upgrade aims to improve the system to current standards and meet your demand.

7. DISTRIBUTION OF ENERGY PRODUCTS

This products include:

- Solar panels
- Solar inverters
- Solar batteries
- Charge controllers
- Solar accessories



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