

UNLIMITED



TECHNOLOGIES

Re-invent How You Power Your Life



Water

Company Profile



www.gadgetronix.net



Who We Are

GADGETRONIX is your trusted partner for cutting-edge Solar, Water, Security & Surveillance, and Communication solutions in East Africa. Since 2014, we have been a leading distributor, consultant, designer, project implementer, and solution provider, specializing in clean and renewable energy.

Our commitment to exceptional customer support is backed by state-of-the-art repair centers throughout Tanzania.

Our Expertise:

We're proud of our team of over 60 highly skilled professionals, including expert technicians, electrical/mechanical engineers, and quantity surveyors.

This expertise allows us to offer comprehensive solutions in:

Energy Solutions: Harnessing the power of the sun for a sustainable future.

Water Solutions: Providing access to clean and reliable water resources.

Security Solutions: Protecting what matters most with advanced security systems.

Telecommunication Solutions: Connecting communities with robust communication infrastructure.

Our Partnerships:

GADGETRONIX collaborates with world-renowned international companies, driving the development, testing, and promotion of innovative clean energy, water, security, and communication technologies.

We have played a key role in expanding communication infrastructure in rural and remote areas of Tanzania, delivering clean power solutions across the country and throughout East Africa.

Our Track Record:

As the leading provider of fiber optic technology to Internet users in Tanzania, our extensive market experience speaks for itself. With over 3000 successful projects completed in Tanzania across our business units, we're dedicated to delivering an outstanding customer experience every time.

LORENTZ

GRUNDFOS

Calpak

LOWARA
a xylem brand

ENERGIE



Where We Are



Gadgetronix Headquaters

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Gadgetronix Warehouse

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Gadgetronix Njiro Complex

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Gadgetronix Zanzibar

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What We Do

Water Solutions



1. Solar Water Pumping.
2. Electric water pumping
3. Hybrid water pumping
4. Solar Water heating
5. Water Filtration / Treatment
6. Solar water dispensing
7. Borehole Flushing
8. Borehole Camera Inspection



600+
Water Pumps



400+
Solar Water Dispensers



2,000+
Solar Water Heaters



15+
Water Filtration Projects

Benefits of our water solutions



Over time, these systems can lead to significant cost savings in terms of reduced energy bills, lower maintenance expenses, and government incentives (where applicable)



All our systems are properly designed and maintained and are highly energy-efficient, reducing overall energy consumption and associated costs.



They ensure a consistent and reliable water supply for irrigation, heating, drinking water, or other applications, enhancing overall quality of life and productivity.

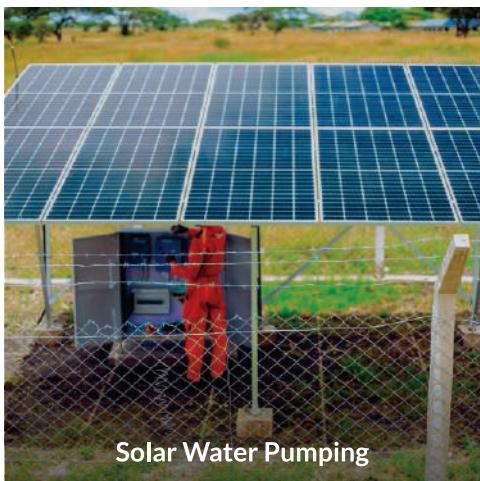


Contribute to environmental sustainability by reducing carbon footprint and promoting a cleaner and greener energy source.



1. WATER PUMPING

We work with different organizations to provide sustainable water solutions. With our variety of water pumping solutions, we are able to provide water to communities, home owners, lodges etc across Tanzania, both for human and animal consumption. This reduces operation costs, improves water safety, and is environmentally friendly and sustainable while also reducing dependence on non-renewable energy sources.



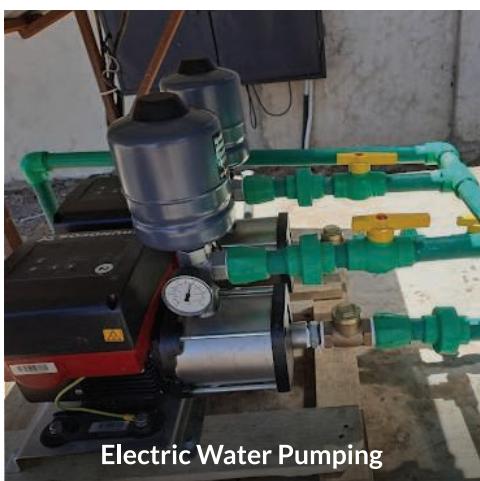
Solar Water Pumping



Solar Water Pumping



Solar Water Pumping



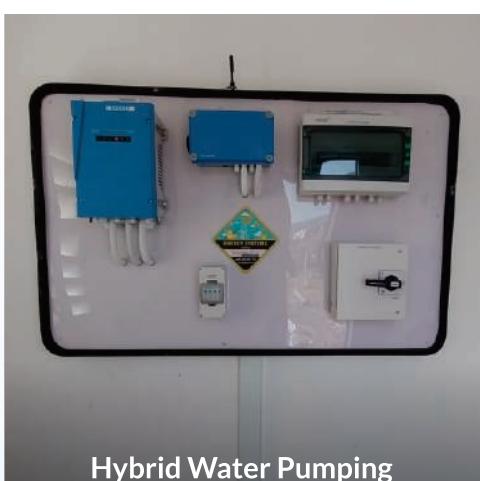
Electric Water Pumping



Solar Water Dispensing



Borehole Camera Inspection



Hybrid Water Pumping



Borehole Flushing



Hybrid Water Pumping

LORENTZ

GRUNDFOS

LOWARA
a xylem brand

2. SOLAR WATER HEATING

Solar water systems use solar heat energy from the sun to produce hot water. A typical solar water heater consists of a solar collector mounted on either the roof of a building or connected to a super insulated water storage tank for later use.



3. WATER FILTRATION / TREATMENT

We offer water purification technologies for communities, health institutions, lodges and plants to provide clean and safe water for drinking and cooking.



4. SOLAR WATER DISPENSING

Our solar-powered water dispensing system simplifies off-grid water access, that enables revenue collection, water entitlement and sustainable water provision. These tags can be easily topped up at local sellers or through mobile money, which ensures convenient and sustainable water provision through our user-friendly solution deployed in various remote communities.





Applications of our water solutions

1. Drinking water
2. Agriculture / Irrigation
3. Responsible leisure
4. Industrial / commercial
5. Residential

1. DRINKING WATER

Water pumping systems play a vital role in providing communities, businesses, homes, and lodges with access to clean drinking water. We use such systems to extract water from sources such as wells, boreholes, or reservoirs and then distribute it. We ensure a consistent and reliable supply of potable water and improve public health, sanitation, and overall quality of life.



LORENTZ 

2. AGRICULTURE - IRRIGATION



In agriculture, water pumping systems are indispensable for irrigation purposes.

Our systems extract water from various sources like rivers, wells, or reservoirs and distribute it to fields in order to maintain soil moisture and nourish crops.

This enables farmers to optimize crop yields, promote plant health, and mitigate the effects of drought, contributing significantly to global food production and food security.



3. RESPONSIBLE LEISURE

We utilize water pumping systems in responsible leisure to provide clean water to lodges, communities, homeowners, and businesses, ensuring access to safe drinking water.

Our systems also maintain water features and pools, enhancing the recreational experience while conserving water, in line with our dedication to promoting sustainable leisure.



LORENTZ

4. INDUSTRY - COMMERCIAL



Water pumping systems are vital in industry and commerce, ensuring efficient operations in processes like cooling, heating, and manufacturing. Our systems provide reliable water supply for equipment, supporting power generation, chemicals, and food processing.

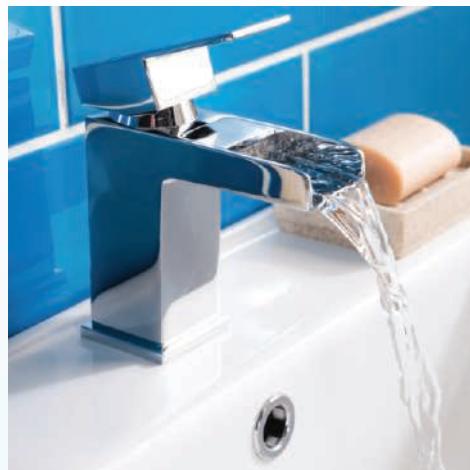
Our tailored solutions enhance efficiency, reduce downtime, and promote cost savings and sustainability. With our expertise, businesses thrive with uninterrupted water access.



5. RESIDENTIAL

We offer energy-efficient water heating systems that harness sunlight and help reduce electricity or gas bills, lower carbon footprint, and provide a sustainable solution to the residents.

Our systems consist of solar collectors and storage tanks, ensuring a constant supply of hot water for showers, faucets, and appliances, which becomes cost-effective in the long run and contributes to a greener and more eco-friendly home.



Beneficiaries of our water solutions

1. Home owners
2. Farmers & Livestock
3. Water Providers
4. Communities
5. NGOs & Government

1. HOME OWNERS

Our water pumping systems allow homeowners to have a reliable water supply, supporting daily needs like showers, faucets, and appliances.

These systems maintain consistent water pressure, enhancing comfort and convenience within households; whether sourced from wells or municipal supplies, they play a crucial role in ensuring a seamless flow of water for various domestic activities.



2. FARMERS / AGRICULTURE

Water pumping systems are essential in agriculture, aiding farmers in irrigation, livestock care, and crop cultivation. We provide them with a steady water supply from wells, rivers, or reservoirs, enhancing crop yields and promoting agricultural sustainability.

These systems are invaluable tools for farmers, optimizing water resource management and supporting the growth of healthy crops and livestock.



3. WATER PROVIDERS

Water providers can now rely on efficient water pumping systems to deliver clean water to consumers from us. We provide reliable equipment and maintenance to ensure uninterrupted service, benefiting their consumers' public health and quality of life.

Proper infrastructure is key for water providers to meet growing demands.



4. COMMUNITIES

We install water pumping systems in communities to provide residents with reliable access to clean water. We draw water from local sources, ensuring a sustainable and convenient supply for daily needs, improving public health, and enhancing overall community well-being.



5. NGOs & GOVERNMENT

Many NGOs have now adopted the solar water pumping system, keeping their operations at minimum costs whilst delivering remarkable water solutions to communities living in remote areas.

These systems ensure access to safe water sources, improving health and sanitation and empowering communities in their pursuit of a better quality of life, and NGOs can now manage and monitor the system's performance as they increase their strength in other community projects.





Our products

Water

Scan Code to View all



Solar Water Pumping



Electric water Pumping



Hybrid Water Pumping





Water

Scan Code to View all



Solar Water Heating



Water Filtration / Treatment



Solar Water Dispensing



Borehole Flushing



Borehole Camera Inspection



Completed projects

LAHIA TENTED LODGE

Client: Tanganyika Wilderness Camps

Client type: Hospitality

Project Category: Water Pumping

Location: Serengeti

Solar Array: 174.9 kWp

Service Provided: Electric Submersible & Surface Pump
& Solar Swimming Pool Pump.

The **submersible pumps** have been installed to work consecutively using timer switches. These pumps serve the entire lodge, staff quarters, and for wildlife water troughs with more than 150,000 litres of water per day and a 50 m³ swimming pool.

System Specifications:

- 3 x 7.5kW Electric Submersible Pumps
- 1 x 3kW Electric Submersible Pumps
- 1 x kW Electric Surface Pump
- 2 X Swimming Pool Pumps



KAHAWA HOUSE

Client: Tanganyika Wilderness Camps

Client type: Hospitality

Project Category: Water Pumping, solar water heating

Location: Arusha

Service Provided: Electric Water Pumps, solar water heaters

Electric boost pumps that work consecutively using timer switches. The pumps serve the lodge and neighboring plots with more than 80 cubic meters of water a day and a 40 cubic meters swimming pool.

System Specifications:

- 2 x 7.5kw of Electric Pumps
- 1 X 160L Solar water heater



CATHOLIC RELIEF SERVICES

Client: CRS

Client type: NGO

Project Category: Solar Water Pumping

Location: Mbeya

Solar Array: 23.98KW

Service: Lorentz Solar Water Pumping Systems

Size: 170,000L per day



OIKOS

Client: OIKOS East Africa

Client type: NGO/Health Care

Project Category: Grid Tie System for Water Filtration

Location: Kiteto District

Solar Array: 5.4 kWp

Service Provided: Grid Tie Solution

The Grid-tied System runs the water filtration unit to offset daytime electricity consumption, and the system is also remotely monitored using Fronius Data Manager.

The system comprises the following:-

- 5.4 kWp of Photovoltaic panels
- 1 x Fronius Symo 4.6-1 WLAN/LAN/Webserver



LIFE WATER INTERNATIONAL

Client: Life Water International

Client type: NGO

Project Category: Solar Water Pumping

Location: Shinyanga

Solar Array: 11.7KW

ZIDO

Client: Zanzibar International Development Organization

Client type: NGO

Project Category: Submersible Water Pumping System

Location: Zanzibar

Solar Array: 1.635KWP x 3 systems

Service Provided: Solar Water Pumping System

Designed, supplied, and installed a **Solar water pumping system** that can supply 20,000 liters per day. The submersible solar water pumping system is used to power the pump and supply water for the Mbuzini community.



System Specifications:

- Pump system: LORENTZ PS2-1800 C-SJ5-12
- Total dynamic head (TDH): 70 m
- Solar generator: 1.635KWP x 3
- Daily output: 20m³ / day

MACHO HALISI LTD

Client: Macho Halisi Ltd

Client type: Hospitality

Project Category: Solar Water Pumping Systems

Location: Serengeti

Solar Array: 8.175KWP

Size: 50,000L per day



SAFINA TRUST

Client: Safina Street Networks

Client type: NGO/ Government

Project Category: Water Pumping

Location: Morogoro

Solar Array: 3.015kWp

Service Provided: Solar Water Pumping

Designed, supplied and installed a **Solar Water Pumping System** that can supply 8,000 liters per day.

However we exceed the client's expectation and they are able to get about 10,000L per day

The borehole solar water pumping system is used to run the pump and supply water for the school and local community.

System Specifications

Pump system: LORENTZ PS2-1800 HR-07H-2

Total dynamic head (TDH): 130m

Flow rate: 11 m³/day

Solar generator: 1.95 kWp



ARUSHA LUTHERAN MEDICAL CENTRE SCHOOL OF NURSING

Client: Arusha Lutheran Medical Centre

Client type: Healthcare

Project Category: Water Pumping & Heating

Location: Arusha

Solar Array: 7.92kWp

Service Provided: Solar Water Heating & Pumping

4 X 300L Solar Water Heaters for use in the dormitory



MARUMBI RESIDENCE RESORT

Client: Marumbi residence resort

Client type: Hospitality

Project Category: Solar water heating

Location: Zanzibar

Solar Array: 10 X Calpak 300L closed loop solar water heater

Service Provided: Solar water heating

The solar water heaters are used to heat water for the guest rooms in the resort



LIONS PAW CAMP

Client: Karibu Camps & Lodges

Client type: Hospitality

Project Category: Solar Water Heating

Location: Ngorongoro

Solar Array: 7.98 kWp

Service Provided: Solar Water Heating

5 X 160L & 6 X 300L solar water heaters are used to power up the family and guest rooms. This system is also remotely monitored using Victron Cebro GX.



System Specifications

- 5 X 160L Solar water heaters to serve all family rooms
- 6 X 300L Solar water heaters to serve all regular guest rooms



GAWIDU VILLAGE WATER PROJECT

Client: Gawidu Children's Foundation

Client type: NGO/Government

Project Category: Water Pumping

Location: Manyara Region

Solar Array: 0.81 kWp

Service Provided: Solar water pumping



Designed, supplied and installed a **Solar Water Pumping System** that can supply 8,000 liters per day.

However we exceed the client's expectation and they are able to get about 10,000L per day

System Specifications

- Pump system: LORENTZ PS2-600 HR-10-2
- Total dynamic head (TDH): 75 m
- Flow rate: 10 m³/day
- Solar generator: 0.81 kWp



MATEVES PROJECT

Client: Charles Mwanga

Client type: Individual

Project Category: Solar Water Heating

Location: Arusha

Service Provided: Solar Water Pumping



The **solar water heaters** are for use for a residential home.

System Specifications

- 4 X 300L Solar water heaters



Our Clients

