



Gadgetronix
UNLIMITED TECHNOLOGIES

💧 Water Profile
gadgetronix.net, Q1 2024

Who We Are



GADGETRONIX a prominent Tanzanian distributor established in 2014, specializes in Solar Energy solutions alongside Energy, Water, Security & Surveillance, and Communication equipment in East Africa.

Gadgetronix was founded in Tanzania's technology industry in 2014 and is now a supplier, consultant, designer, project implementer, and solution provider for various clean/renewable energy types. We excel in our customer support services with state of the art repair centers across Tanzania.

Working with a team of highly competent employees, including over sixty full-time Expert Technicians, Electrical/ Mechanical Engineers, and Quantity Surveyors. Gadgetronix has been able to specialize in a variety of areas, including Energy Solutions, Water Solutions, Security Solutions, and Telecommunication Solutions.

Gadgetronix represents several well-known International companies in their pursuit of developing, testing and promoting clean energy, water, security, and communications technologies. We have spearheaded the advancement of communication infrastructure in rural and remote areas of Tanzania, delivering clean power solutions throughout Tanzania and across East Africa.

As the foremost provider of fiber optic technology to Internet users in Tanzania, our extensive experience in the market is evident. With a portfolio boasting over 1200 + successfully executed projects within Tanzania, our unwavering commitment is to provide an exemplary customer service experience consistently.





Where We Are



GadgetroniX Head Quarters

Old NSSF Building, Behind Manji's Metropole, Arusha, Tanzania.
+255 677 061 468 / +255 677 146 654



GadgetroniX Warehouse

HPVC+V85, Njiro Road,
Arusha, Tanzania.
+255 677 146 654 / +255 677 061 468



GadgetroniX Zanzibar

Plot 559, Nyerere Road,
Along Airport Road, Kiembe Samaki,
+255 677 146 654 / +255 67 7061 468



GadgetroniX Dar Es Salaam

Corner of Nkrumah and Swahili Street,
Dar es Salaam, Tanzania.
+255 620 602 009 / +255 620 007 170



GadgetroniX Njiro Complex

Showroom Ground Floor, Shop #2, Njiro Shopping Complex Arusha, Tanzania.
+255 677 146 654 / +255 677 061 468



GadgetroniX Nairobi

Vishnu Industrial Park, Plot LR No. 2/10728 Ruiru`
Along Thika Super Highway
+254 722 116 007



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



600+

Water Pumps



400+

Solar Water Dispensers



2,000+

Solar Water Heaters



10+

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



Electric water pumping



Electric water pumping



Hybrid water pumping



Hybrid water pumping



Hybrid water pumping

LORENTZ

GRUNDFOS



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.



Capak



ENERGIE



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.



LORENTZ





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 water and improve public health, sanitation, and overall quality of life.





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 solar water heating and water pumping systems for responsible leisure to provide clean water to lodges, homeowners, and businesses, ensuring access to safe water for cooking and drinking. Our systems also maintain water features and pools, enhancing the recreational experience while conserving water, in line with our dedication to promoting sustainable leisure.





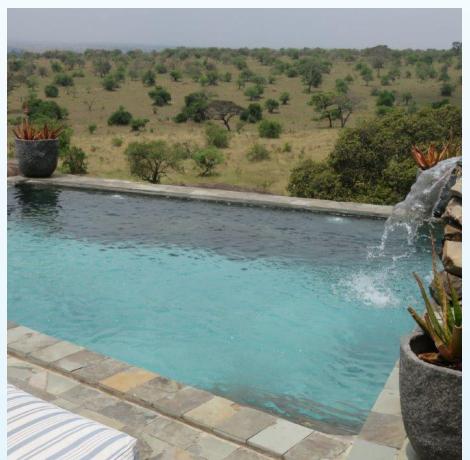
4. INDUSTRIAL / COMMERCIAL

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 and solar water heating 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



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.

The system comprises the following:-

- 3 x 7.5 kW Electric Submersible Pumps
- 1 x 3 kW 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.

The system comprises the following:-

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



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



ZIDO

Client: Zanzibar International Development Organization

Client type: NGO

Project Category: Submersible Water Pumping System

Location: Zanzibar

Solar Array: 1.38 kWp

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.



The system comprises the following:-

- Pump system: LORENTZ PS2-1800 C-SJ1-25
- Total dynamic head (TDH): 70 m
- Solar generator: 1.38 kWp
- Daily output: 20m³ / day



SAFINA TRUST

Client: Safina Street Networks

Client type: NGO/Government

Project Category: Water Pumping

Location: Morogoro

Solar Array: 3.015 kWp

Service Provided: Solar Water Pumping

Designed, supplied and installed a **Solar water pumping system** that can supply 8,000 litres per day. However, we exceeded 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.

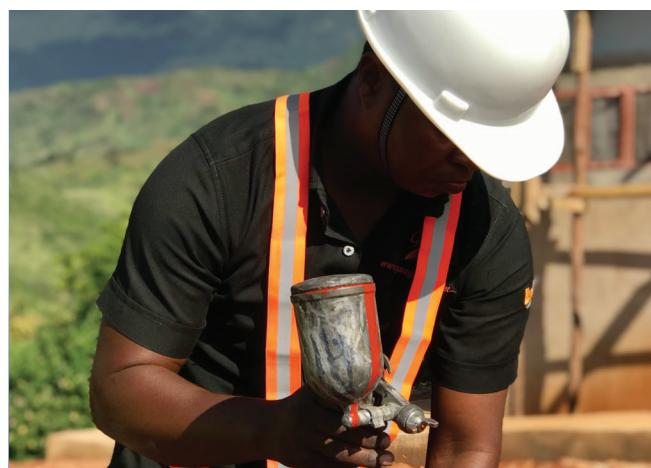
The system comprises the following:-

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

Total dynamic head (TDH): 130 m

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: 7.92 kWp

Service Provided: Solar Water Heating & Pumping



4x300L 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

The system comprises the following:-

- 10 x calpak 300l closed loop solar water heater



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.



The system comprises the following:-

- 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 litres per day. However, we exceeded the client's expectation and they are able to get about 10,000 litres per day.

The system comprises the following:-

- 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 Heating



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

The system comprises the following:-

- 4 X 300L Solar water heaters



Our Clients

