

# DAVIS & SHIRTLIFF

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## IMPROVING LIVES CSR REPORT H1 2022

[#ImprovingLives](#)

# FOREWORD



We live in tumultuous times with regional droughts, COVID and the war in Ukraine destabilizing economies all of which are having a serious impact on Africa and anticipating 2030 and its development goals, water must be a vital priority for the sustainable and equitable development of the continent. Providing clean water is more than just the right thing to do, it has the potential to unlock massive economic rewards. If the world is to prevail over the looming global water crisis, it will require great innovation and commitment from the private and public sectors alike as well as from the developed world.

Every year, over one billion people are harmed by waterborne illnesses. The D&S *#ImprovingLives* Initiative's goal is to achieve a positive impact on people, the communities they live in, society in general and ultimately our planet to preserve it for future generations.

Since its inception in 2018, the initiative has focused principally on solar powered pumping projects which provide safe, environmentally low impact and sustainable potable water supply to large communities including schools and other public institutions. The 24no solar pumping projects in the first 6 months of 2022 have improved over 92,000 lives. The success of these projects has been further enhanced by the cost sharing model involving the participation of partners and donors. The model also encourages beneficiaries to raise a small percentage of the project cost which, in the long turn, has been demonstrated to foster long term ownership amongst the project stakeholders.

In this year's first issue of the *#ImprovingLives* report, we have highlighted a few of the impactful stories that have come out of the initiative's activities. Our vision is a continent where everyone, everywhere has access to safe drinking water and particular thanks go to our many partners who have collaborated with us in pursuit of this objective.

Enjoy the issue!

A handwritten signature in black ink, appearing to be 'AD'.

GROUP CHAIRMAN, DAVIS & SHIRLIFF  
[AlecDavis@dayliff.com](mailto:AlecDavis@dayliff.com)



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**2018**

64 PROJECTS  
50,000 BENEFICIARIES

**2019**

91 PROJECTS  
93,730 BENEFICIARIES

**2020**

140 PROJECTS  
485,220 BENEFICIARIES

**2021**

143 PROJECTS  
221,650 BENEFICIARIES

**2022**

**55  
PROJECTS**

**118,263  
BENEFICIARIES**

IMPACT SINCE 2018: **TOTAL PROJECTS: 493** **TOTAL BENEFICIARIES: 968,863**

# D&S #IMPROVINGLIVES IMPACT LOCATIONS

● MAUCHE COMMUNITY  
2,000 BENEFICIARIES

● POOR SERVANT OF  
DIVINE PROVIDENCE  
1,200 BENEFICIARIES

● MUTHAITI COMMUNITY  
1,500 BENEFICIARIES

● NGONG FOREST CSR  
726 BENEFICIARIES

● SOS CHILDREN'S VILLAGE, BURUBURU  
120 BENEFICIARIES

● RUIRU REHABILITATION CENTRE  
70 BENEFICIARIES

● LENKISHON VILLAGE  
BOREHOLE  
660 BENEFICIARIES

● MWANOSE COMMUNITY  
BOREHOLE  
1,000 BENEFICIARIES

● KYATUNE SPECIAL SCHOOL  
1,250 BENEFICIARIES

● DENDYO PRIMARY SCHOOL  
450 BENEFICIARIES

● NAMBALE URBAN PRIMARY  
SCHOOL  
2,000 BENEFICIARIES





● **SAVE A SOUL FOUNDATION**  
109 BENEFICIARIES

● **KIPAWA WOMEN  
SELF HELP GROUP**  
5,000 BENEFICIARIES

● **TIIGO SCHOOL**  
8,870 BENEFICIARIES

● **LENGIMA COMMUNITY**  
35,000 BENEFICIARIES

● **KERITH CHURCH WAMBA**  
4,000 BENEFICIARIES

● **GARSE KHOFTU  
SECONDARY SCHOOL**  
100 BENEFICIARIES

● **BULA NATHIR BOREHOLE**  
10,000 BENEFICIARIES



## OTHER COUNTRIES

- **KIGAMBONI COMMUNITY - DAR**  
150 BENEFICIARIES
- **SANGA VILLAGE - DAR**  
200 BENEFICIARIES
- **WISDOM CLINIC - ZAMBIA**  
17,823 BENEFICIARIES

# ESG PARTNERSHIP LAUNCH



The launch pertains to the ESG Multipartite Program that Novartis, in collaboration with Davis and Shirliff, Equity Group Foundation, Rotary International and the Machakos County Government launched in August 2021. The ESG Multipartite Program is providing water to Machakos County inhabitants through high-yielding solar powered boreholes in Nguu-nyumu, Kyaani and Mitaboni. The program also includes environmental improvement and sustainability whereby more than 20,000 trees have already been planted. There have also been activities geared towards better menstrual health and empowerment of school children. Another key pillar of the ESG Multipartite Program pertains to community health initiatives that embrace a population health approach.

**20,000**  
number of trees which have already been planted



**PROJECT VALUE**  
KSHS 7,060,000

**SOLUTION PROVIDED**

Dayliff DS5/25 Borehole Pump,  
Dayliff DS17 15KW Borehole Pump,  
Dayliff DS5/25 Borehole Pump,  
3 State of the art Ground Mount  
Solar Support Structures,  
Borehole Accessories

**DAYLIFF**





# SWEET POTATO FARMING IN THE ARID LANDS OF SAMBURU



The availability of water resources in Kenya has been decreasing over time because of persistent drought and land-use patterns. The climate scenarios show that rainfall variability and increased evaporation due to higher temperatures will further decrease the availability of water. Rising temperatures and changing patterns of rain have also exacerbated the problem of disappearing wetlands and have increased food insecurity as a result of reduced crop yield.

Samburu County being an already water stressed county due to its location in the ASAL zone has experienced the impacts of climate change on its water and sanitation sector with greater severity and intensity. In partnership with ChildFund Kenya, the D&S #ImprovingLives Initiative has rehabilitated the Kula Mawe borehole, in Baragoi, Samburu County. The rehabilitation of the borehole has made it possible for the community to implement an Orange Flesh Sweet Potato project in the community. The solar powered borehole will increase access to water for 12,000 people, including an ECD Centre adjacent to the borehole. In addition to this, the sweet potato farming project, which is already underway, will improve the nutrition status of over 17,200 children, youth and women in the community.



**PROJECT VALUE**  
**KSHS 965,000**

**SOLUTION PROVIDED**

**Dayliff Sunflex 750C2 Solar Pump,  
SF200 Control Unit,  
Dayliff Water Meter,  
6\*200W Solar Panels,  
State of the art Ground Mount  
Solar Support Structure**

**DAYLIFF**





# SOLAR PUMPING HELPS LOCAL NGO DIVERT FUNDS TO CARE FOR 155 ORPHANED CHILDREN



Teule Kenya is a Kenyan NGO that works with 155 orphaned and vulnerable children in Oloitoktok, Kajiado County. The dependence and expense of electricity at the children's home and its community projects greatly affected their ability to cater for the children's basic needs, as well as the efficiency and sustainability of ongoing developments.

In partnership with the Teule Kenya, the D&S #ImprovingLives Initiative has donated a Dayliff solar system, that has converted the home's borehole pump from mains powered to solar powered. The solar system comprises a 7.5kW Dayliff controller, 34\*330w solar panels, and galvanized steel solar support structure. The solar innovation allows for reduced power costs at the home, a low maintenance pumping system, and a lower carbon footprint.



**PROJECT VALUE**  
**KSHS 1,185,000**

**SOLUTION PROVIDED**

34 \* 330w solar panels,  
Dayliff Sunverter 7.5kw Solar Controller,  
4m Ground Mount Solar Support  
Structure, 6mm twin flat cable (50m),  
PV Disconnect switch

**DAYLIFF**





155

The number of orphaned and vulnerable children that Teule Kenya works with in Oloitokitok, Kajiado County.



## SUIYAN - A VILLAGE THAT STANDS FOR PEACE



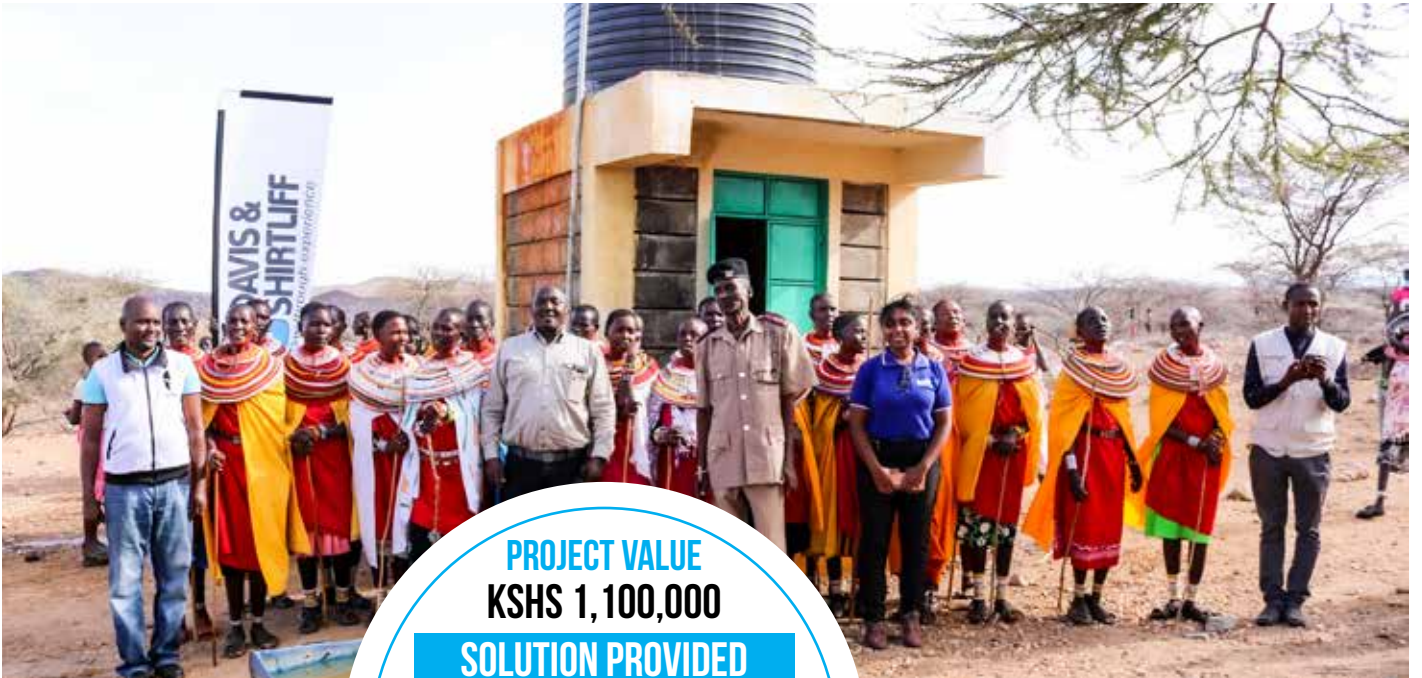
The conflict between the Nilotic tribes of Baragoi has been a puzzle for both the government and religious institutions alike. However, as if in defiance of its environs, Suiyan Village is a story of inclusivity and peace. The villagers have intermarried between Turukana and Samburu communities, and despite several attempts by their neighbors to shake their resolve, the brave villagers of Suiyan are determined.

This resolve does not come without its perils. The villagers have, for many years, fetched their water from a lagha (a dry river) a perilous distance away. Due to the security risks that come with straying too far from the protection of their men, women would often have to go in groups to fetch water. This, coupled with the problematic quality and availability of this water, created many challenges for the village.

Together with Child Fund Kenya, Davis and Shirliff have rehabilitated an old borehole close to Suiyan. The water kiosk has been set up right next to an Administration Police post, ensuring security. The pump, a Dayliff DS 2-33 is powered by 17 no. 150W solar panels, erected on a 3M galvanized steel structure just a few meters from the village. The impact brought to Suiyan Village by the Dayliff pumping system, at no cost to the villagers, is a true depiction of the D&S *#ImprovingLives* Initiative.



**17**  
The number of  
150W solar panels that power  
the Dayliff DS 2-33



**PROJECT VALUE**  
**KSHS 1,100,000**  
**SOLUTION PROVIDED**  
Dayliff DS2-33 1.5KW Borehole Pump,  
Dayliff Sunverter 3.7KW  
Borehole Controller,  
17 \* 150W Solar Panels



# A SCHOOL FOR THE HEARING IMPAIRED IN OL MORAN WARD, ATTAINS SUSTAINABLE ACCESS TO WATER



Sipili School for the Deaf is in Ol Moran Ward, Laikipia County. The school is in a semi-arid part of Laikipia where there are no rivers and getting sufficient supply of clean water is a great challenge.

Before approaching the D&S #ImprovingLives Initiative, Sipili school had an existing borehole, running on mains power. Unfortunately, due to the quality of power at the school, the motors frequently and consistently broke down. Adding to the utility cost of pumping, the school incurred great maintenance costs, in replacement of the broken-down motors. During these downtimes, the school got their water from the town borehole, also at a cost.

The D&S #ImprovingLives Initiative donated and installed a Dayliff solar powered system which converted the school's borehole pump from mains-powered to solar-powered. The school now supplies water to 85 children with hearing impairments, 700 students at an adjacent Primary school, and 803 community members. During the commissioning ceremony, Davis & Shirliff staff received a moving sign language testimony of gratitude from one of the pupils of Sipili School for the Deaf.



**PROJECT VALUE**  
**KSHS 795,000**

**SOLUTION PROVIDED**

16 \* 200w Solar Modules,  
Roof Mount Solar Support Structure,  
Dayliff Sunverter 3.7kw  
Borehole Controller

**DAYLIFF**



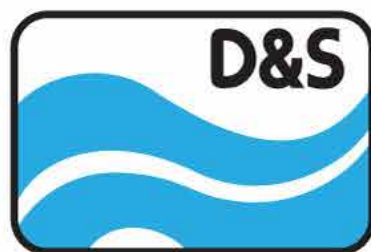
**IMPROVING  
LIVES**

through

**WATER & ENERGY**

**SOLUTIONS**

**for 75 years**



**DAVIS &  
SHIRTLIFF**

know **H<sub>2</sub>O**w through experience

[davisandshirtliff.com](http://davisandshirtliff.com)

**WATER PUMPS | BOREHOLE SERVICE | SWIMMING POOLS  
WATER TREATMENT | GENERATORS | SOLAR | IRRIGATION**



# JAWABU REHABILITATION CENTRE



**PROJECT VALUE**  
**KSHS 220,000**

**SOLUTION PROVIDED**

**Ultrasun UVT200**  
**Vactube Solar Hot Water System,**  
**Heater C/W Thermostat 3KW**

**DAYLIFF**

## JAWABU REHABILITATION CENTRE

P.O. BOX 1232-30100 ELDORET  
Tel No.: 0710990195

Email: jawaburehabilitationcentre@gmail.com



*"Together we will care for and celebrate our children forever"*



14/06/2022

**Davis & Shirtliff**  
Uganda Road West,  
0734 590000, Eldoret

Dear Sir/Madam

### RE: LETTER OF ACKNOWLEDGEMENT & THANK YOU

I want to take this opportunity to personally thank **Davis & Shirtliff – Eldoret** for your extremely generous support to Jawabu Rehabilitation Centre. It says in Chinese: *No appreciation is enough for great kindness.* But here, I still want to thank you all for your kindness, which has provided the Centre with hope and courage to live a better life.

Donations and support like yours to Jawabu Rehabilitation Centre have provided these vulnerable kids with warm water through your solar hot water system thus enabling them to have a comfortable home. To all of you kind people here, we were all unfortunate kids before, but now we are happy since we have so many kind people like you around.

You give us so much love, and I cannot express my gratitude by any words. On behalf of Jawabu Rehabilitation Centre, I would like to say, "Thank you, and wish you nice people at **Davis & Shirtliff – Eldoret** a peaceful and happy life forever." We also pray that you will continue to support us through this noble cause.

Through you, God's love reaches those children who are in difficulties and in need.

With Sincere Gratitude,

Patrick Korir Ruto

Director

For Jawabu Rehabilitation Centre



# IMPROVED ACCESS TO WATER AND EDUCATION FOR GIRLS IN KATILIA COMMUNITY



**K**atilia Girls Secondary is a public school, in Katilia Ward, Turkana County. Being 190 kms from Lodwar and 780 km from Kenya's capital, the school serves the Katilia Community. It is also the only girls' secondary school in its ward. The school was established to curb the community's growing concern of teenage marriages that were on the rise. The D&S #ImprovingLives Initiative has partially donated a Dayliff 3kw solar powered pump to the school, ensuring that the girls' school has convenient access to clean potable water.



**PROJECT VALUE**  
**KSHS 1,430,000**

**SOLUTION PROVIDED**

**Dayliff DS 5/33 Borehole Pump,  
Dayliff Sunverter 3 Borehole Controller,  
11 no. 1.5" Borehole UPVC Pipes,  
State of the art Ground Mount Solar  
Support Structure,  
20 \* 275W Solar Panels**

**DAYLIFF**



**780**  
The number of kilometers  
between Katilia Girls Secondary  
School from Kenya's capital

## MAKUTANO NKANGA SELF HELP GROUP TAKES TO BANANA AND FISH FARMING WITH THE HELP OF A DAYLIFF SUNFLO PUMP



Provision of safe and adequate water is an effective and efficient intervention for fighting poverty, disease, and social disparities. Access to water alone cuts across all other SDGs (Sustainable Development Goals). Makutano Nkanga is a self-help group started in 2003 by the farmers of Mura community. The group are custodians of Makutano Nkanga Water Project, which not only provides water to over 240 households and a school, but also oversees fish and banana farming schemes. The community-based organization approached the D&S #ImprovingLives Initiative in mid 2020, before they had access to water. Recently, Davis & Shirliff donated a Dayliff solar powered pump which now provides over 2,000 liters of water to the community and its farming projects. The project launching ceremony was held in a most traditional setting, under the shade of a big old tree. The community expressed their immense gratitude for the donation, and proudly showcased their farming projects which shall ensure both sustainability and growth.





**PROJECT VALUE**  
**KSHS 355,000**

**SOLUTION PROVIDED**

Dayliff D3SP1-27 0.75kW 3" Pump,  
5 \* Dayliff 1 1/4" Borehole Pipes,  
10 \* Dayliff 200W 24VDC Crystalline  
Solar Module, Dayliff 1.5kW 1PH  
Solar Controller

**DAYLIFF**

# ACCESS TO WATER RESOLVES FOR BETTER NUTRITION AND HEALTH OF STUDENTS AT OLENTUTU PRIMARY SCHOOL



The COVID pandemic was instrumental in not only bringing to perspective just how essential schools are in community but also the great inequality that plagues the education system. As society strives to take care of their vulnerable children, it is imperative to devise workable systems for delivering essential services from access to clean potable water, food, education, and health care.

Olentutu Arid Zone Primary School is a public primary boarding school in Narok County with 369 pupils enrolled. The D&S #ImprovingLives Initiative has partnered with Innovate Kenya to donate and install a solar powered pump at the school dam. The pump is being used to pump water to the school farm which supplies the students with fresh food, and dairy products.

**PROJECT VALUE**  
**KSHS 780,000**

## SOLUTION PROVIDED

**Pedrollo Dm30 1.1kW Drainage Pump,**  
**Dayliff 2.2kW controller,**  
**9 \* 200w Solar Panels, State of the art**  
**Ground Mount 3M Galvanized Steel Solar Support Structure,**  
**200m HDPE Roll**

**DAYLIFF**



**369**  
pupils enrolled at Olentuntu  
Arid Zone Primary School



## SOLAR WATER HEATING FOR THE STUDENTS OF KAAGA SCHOOL FOR THE DEAF



Hearing loss can affect speech and language skills. Hearing problems also mean that the areas of the brain used for communication may not develop as they should. Understanding and speaking are difficult for hearing impaired individuals. Parents of deaf or hearing-impaired children often face frustration and stigmatization by society making it difficult for children to integrate with their peers. Largely due to the stigma, only 10% of the over 800,000 deaf children in Kenya are in school. Kaaga School For the Deaf, is one of the 120 schools for the deaf in the country, a public primary school in Mulathankari, Meru County. The boarding school is run by a religious organization and has a little over 100 learners. The school's aim is not just offer education for its students, but an improved quality of life as well. In partnership with a US based Missionary, the D&S #ImprovingLives Initiative has donated three, 300l ultrasun solar water heating systems. The hot water systems will go a long way in improving the quality of life for the students, all the while saving the school in heating costs.



**PROJECT VALUE**  
**KSHS 30,000**

**SOLUTION PROVIDED**  
Dayliff 10" Triple UV Purifier

**DAYLIFF**



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# NEED A **PROJECT** UNDERTAKEN?

Submit your application through the CSR portal  
on the Davis & Shirliff website

[www.davisandshirliff.com/csr-eligibility-form](http://www.davisandshirliff.com/csr-eligibility-form)

# SOLAR POWERED PUMPING HELPS THE OSILIGI COMMUNITY TO LOOK TO CROP FARMING TO SUPPLEMENT CATTLE REARING



Francis Leperes, an elder of the Osiligi Community, Narok gives a testament of how difficult it is to access clean potable water in his village. "We mostly rely on water harvesting and during dry seasons we fetch water from the Mara River which isn't clean for consuming. The Mara River is an estimated 8 kilometers and you have to compete with wild animals." Aside from the long distances and the consequential human-wildlife conflict, the community also tackled heightened cases of typhoid.

The D&S #ImprovingLives Initiative in partnership with 'WMO2H' drilled and equipped a 220 meters borehole, which now gives a yield of 7,000 liters of water per hour. The borehole has been equipped with a solar powered 2.2kw Dayliff pump, state of the art solar support structure and an intelligent Dayliff solar controller.

The project, which was overseen by the D&S Narok Branch, under the leadership of Leonard Njiru, is one of its kind in the region, with the community supplementing its pastoralist activities with crop farming to improve on their nutrition and overall, wellbeing.





**8KM**  
the distance to the Mara River and one has to compete with wild animals

**PROJECT VALUE**  
**KSHS 920,000**

**SOLUTION PROVIDED**

Dayliff DS3-33 2.2kW Pump, 57 \* Dayliff 1 1/4" Standard 3M Pipe, Dayliff 3.7 kW 3PH Solar Controller, 18 \* Dayliff 200W 24VDC Crystalline Solar Module, State of the art Galvanized Steel 3M Ground Mount Solar Support Structure

**DAYLIFF**



## IMPROVING THE LIVES OF KENYA'S FUTURE LEADERS

Save a Soul Children Centre is a charitable organization for children and its main aim is to alleviate the hardships faced by the orphaned and vulnerable children by rehabilitating them into useful and productive members of the society. The center offers emotional support and a conducive environment for the growth and development of all the accommodated children. The institution had been experiencing water challenges which pushed them to drill a borehole by fundraising through friends, family and well wishers. Unfortunately, the funds raised were not sufficient to install the required 4kw Dayliff borehole pump. Through the #ImprovingLives Initiative, Davis & Shirliff donated and installed a 4kw solar powered pumping system for the home, improving the lives of Kenya's future leaders.



**PROJECT VALUE**  
**KSHS 1,330,000**

### SOLUTION PROVIDED

1 Dayliff DSD3-50 Pump c/w 4.0KW  
3-Phase Motor, 30° Dayliff 335W  
Crystalline Solar PV Modules, Dayliff  
5.5kW, 3-Phase Solar Pumping Inverter,  
84° Dayliff UPVC 1¼" Pipes, 3M Length,  
Heavy Duty, Ground Mount Solar  
Support Structure

**DAYLIFF**



## A PARTNERSHIP FOR THE PLANET



Preserving the earth in turn preserves and protects our health, families, and livelihoods. It takes businesses, governments, and citizens to think boldly and act innovatively within their own spheres of influence, capability, and operations to turn the tide of climate change in favor of the earth and its well-being.

The Ngong forest has a public area where people can enjoy the forest walking and accessing tree seedlings. Unfortunately, the women who run the seedling production must carry water from the dam up to where the seedlings are grown. For some, this is clearly a difficult task.

The Davis & Shirtliff #ImprovingLives Initiative, in partnership with the Mediae Company, have donated a solar pump to pump the water from the dam to a raised tank at the seedling area that is providing good support to the people who work on growing the tree seedlings.

In line with the 2022 Earth Day theme, the #ImprovingLives Initiative is investing time, resources, and solutions in our planet.



**PROJECT VALUE**  
**KSHS 470,000**

### SOLUTION PROVIDED

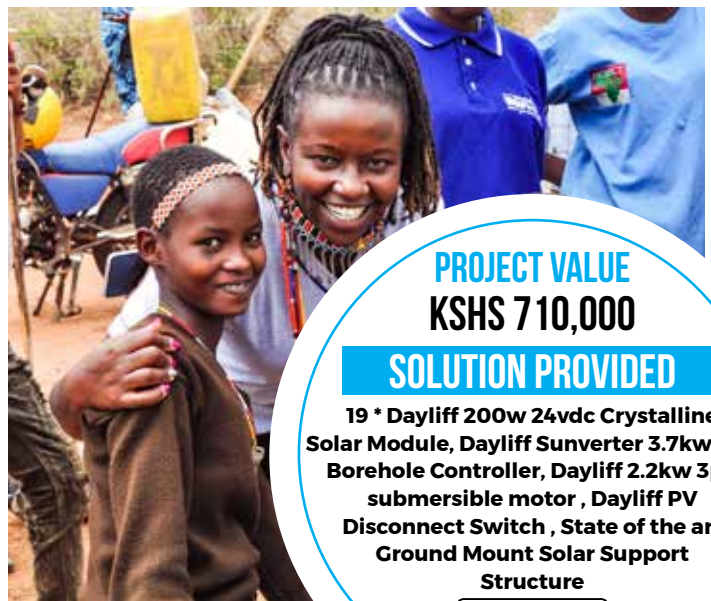
**Dayliff Sunflo-B 1000C2 Solar Pump, State of the art Ground Mount Solar Support Structure, 8 \* Dayliff 200W 24VDC Crystalline Solar Module**



# LENKINSHON VILLAGE BOREHOLE SOLARIZATION



Lenkinshon Village in Bisil, Kajiado County, is experiencing a difficult period of drought. Cows are dying of hunger, and those that are still alive are being sold at the famous Bisil market, but at very low prices. Herders are making their way hundreds of kilometers in every direction, to look for pasture. In these most desperate times, when rain is even more scarce than usual, groundwater poses a viable, yet capital intensive solution for the Lenkinshon community. The D&S #ImprovingLives Initiative has donated a solar system to power the community's borehole that previously operated on mains power. The solar powered borehole now serves the community without the frequent interruptions they experienced, and is right next to a children's home that takes care of orphaned children.



**PROJECT VALUE**  
**KSHS 710,000**

## SOLUTION PROVIDED

19 \* Dayliff 200w 24vdc Crystalline Solar Module, Dayliff Sunverter 3.7kw 3ph Borehole Controller, Dayliff 2.2kw 3ph submersible motor, Dayliff PV Disconnect Switch, State of the art Ground Mount Solar Support Structure

**DAYLIFF**



# PARTNERSHIP IN THE REHABILITATION OF NAKURU'S HOMELESS YOUTH

'Welcome to the Family' is a charitable organization in Nakuru, founded by the Poor Servant of Divine Providence in 2007. The charitable organization comprises 3 centers. Drop-in Center, which serves as a 'first approach' in rehabilitating street boys. The center offers them a place to bath, wash clothes, meals, and counselling. The second center is the Boys Ranch Center, which has 4 family style houses, that accommodates a total of 56 children. The boys live here for three years, go to school, learn apiculture, poultry and pig rearing, agriculture, carpentry, and baking. The third center, Calabrian Shelter, houses 18 girls who have been rescued from unsafe living conditions. The girls receive protection, counseling, education, and the same activities available to the boys. D&S #ImprovingLives Initiative has donated in part a solar system that supports the rehabilitation center's 3kw borehole pump. The water from the borehole serves both the center and the local community.



**PROJECT VALUE**  
**KSHS 880,000**

**SOLUTION PROVIDED**  
21\* Dayliff 335W Solar Panels, Dayliff Sunverter 3.7KW 3PH Borehole Controller, Dayliff PV Disconnect, Earthrod C/W Clamp, Copper Earth Cable 6mm, Galv. Steel Ground Mount 3M Structure/Watt, 6\* 200AH Solar Batteries, Tin roof Galvanised support structure, Opti SP Effecto 3000 24VDC Hybrid Inverter

**DAYLIFF**



# DAYLIFF

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## BOREHOLE SOLUTIONS



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**D&S DAVIS & SHIRTLIFF**  
know H<sub>2</sub>O through experience

**The Best Borehole Solutions Available!**



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# A COMMUNITY-BASED WATER PROJECT IN NANYUKI, LAIKIPIA COUNTY

Community based water projects are often set up with the objective of financing water and sanitation projects in the underserved rural communities across Kenya. Due to surging growth of populations which are putting a strain on water resources, rural communities in Kenya are thirsty. However, the various CBOs (Community Based Organizations) efforts to defend water access has been seen to change residents' lives. The Davis & Shirliff #ImprovingLives Initiative has partnered with over a hundred such water projects to provide water that is safe and affordable. Recently, the initiative has donated a solar powered Dayliff pump to Mirera Borehole Project which is supplying water to 300 households, improving over 1500 lives. To ensure continued running of the scheme, members contribute a subsidized amount every month to the same.



**PROJECT VALUE**  
**KSHS 75,000**

**SOLUTION PROVIDED**

**Dayliff DSP8-17 3kW Borehole Pump and Motor**

**DAYLIFF**





# PARTNERSHIP WITH COMPASSION AID TO BRING WATER TO A COMMUNITY IN SAMBURU COUNTY



In the year 2012, 380 km north of Nairobi, at Kerith Church in Wamba town, a borehole was drilled. From the very first day that water was pumped from it, there was a great crowd of community members, armed with several jerricans, to enjoy the provision of water from the borehole. This continued for 8 years up until July of 2019, when the pump broke down and the community was once again facing an acute shortage of water. In partnership with Compassion International, the D&S #ImprovingLives Initiative have not only rehabilitated the borehole, but also converted it to run on solar power. The borehole now serves over 4000 people, greatly improving their quality of life. The enthusiastic commissioning ceremony was attended by community members, church leadership, D&S Head Office staff as well as Isiolo branch staffers, led by Branch Manager, Paul Muchiri.

**PROJECT VALUE**  
**KSHS 685,000**

**SOLUTION PROVIDED**

Dayliff DS5/24 2.2kW Borehole Pump,  
Dayliff 3.7kW 3PH Solar Controller,  
15 \* Dayliff 200W Crystalline Solar  
Modules

**DAYLIFF**





**4,000**  
approximate  
number of people  
served by  
the borehole



## SOLAR PUMPING A KEY RELIEF FOR OLONG'ARUA SPECIAL SCHOOL AND THIRIA VILLAGE



**70**  
Number of children with different forms of impairment looked after by the school

Olong'arua Special School is located in Thiria Village, in Laikipia County, 233km from Kenya's capital, Nairobi. The special school looks after a population of 70 children who have different forms of impairments and physical challenges. Thiria village is in a semi-arid part of Laikipia where the streams are seasonal and getting sufficient supply of clean water is unfortunately a significant challenge. Olong'arua Special School, along with Olong'arua Primary School and Thiria Dispensary, have been getting their water from a nearby shallow borehole that was fitted with a handpump. Unfortunately, the demand of over 1200 people utilizing the borehole, led to frequent breakdown of the handpump and subsequent frequent downtimes where the borehole was not producing any water. The D&S #ImprovingLives Initiative has recently donated and installed a solar powered borehole pumping system, which allows for uninterrupted access to clean water at no cost to the schools, dispensary and communities that benefit. The pumping system, a Dayliff Sunflo pump, yields 24,000 liters of water per day improving over 1200 lives in the community.





**PROJECT VALUE**  
**KSHS 475,000**

**SOLUTION PROVIDED**

Dayliff Sunflo-B 500C  
Solar pumping system, 4 \* 200W  
Ground Mount Structure,  
15\* Dayliff 1 1/4" standard 3M  
Borehole Pipes

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## INCREASED ACCESS TO WATER, FOR THE ELDERLY COMMUNITY IN KABETE



**PROJECT VALUE**  
**KSHS 70,000**

**SOLUTION PROVIDED**

Dayliff DS 5-8 Borehole Pumping System, 15 no. 1.5" UPVC Borehole Pipes, 40m of submersible cable

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Only about 50 percent of Nairobi residents have direct access to piped water while the rest depend on water from kiosks, vendors, illegal connections, or from boreholes. Of those with direct access to piped water, only 40 percent receive water round the clock with the rest having to contend with an average of 11 hours per day. The PCEA Emmanuel Church, in Kabete, ministers to a congregation of small-scale farmers and the elderly. Water has been a large problem in the region, owing mostly to poor water infrastructure. The church, on behalf of the community, applied to D&S for the donation and installation of a Dayliff borehole pump. The borehole pump now provides over 24,000 liters of water to the community daily. In a most colorful and joyous ribbon-cutting occasion, the clergy of PCEA Emmanuel Church, along with community leaders, expressed their immense gratitude to Davis & Shirliff for the donation.







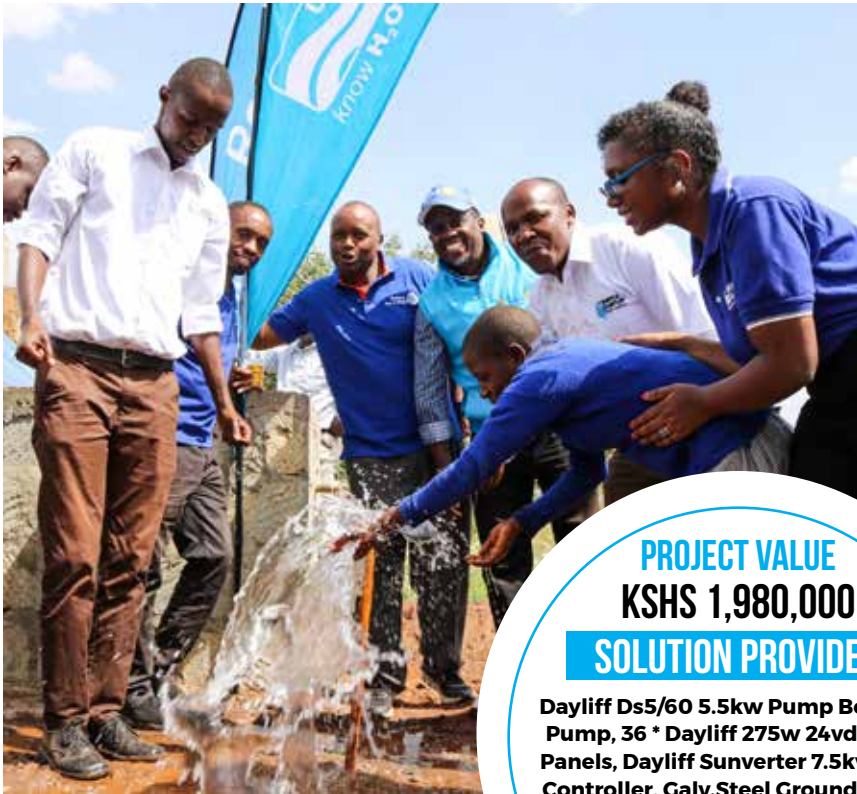
**50%**  
Number of people in Nairobi who have direct access to piped water

# KYATUNE SPECIAL SCHOOL



Kyatune Special School is located in Kitui County – Kenya. It has an enrollment of 168 students, all of whom are abled differently across a wide spectrum of conditions. The school looks after children with autism, down syndrome, cerebral palsy and physical disabilities. For many years, the school has been fetching their water from a dam a short distance away. The dam would also serve the community and their animals and naturally, the question of the safety of the water was often raised. In partnership with the Rotary Club of Syokimau, D&S #ImprovingLives Initiative has installed a solar powered borehole pump that provides over 54,000 litres of clean drinking water per day. The water is more than enough for the school, and so they plan to supply the same to the community at a subsidized fee. The revenue generated from the cost of water will go into a kitty that will be used to maintain the solar pumping system.





**PROJECT VALUE**  
**KSHS 1,980,000**

**SOLUTION PROVIDED**

Dayliff Ds5/60 5.5kw Pump Borehole Pump, 36 \* Dayliff 275w 24vdc Solar Panels, Dayliff Sunverter 7.5kw Solar Controller, Galv.Steel Ground Mount 3m Structure/Watt, Pv Disconnect Switch 1000v/40a, 32 X 2" Standard UPVC Pipes

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**54,000** Number of Litres of clean drinking water that the solar powered borehole pump provides



# OUR LADY OF PERPETUAL HELP CHILDREN'S CENTRE



Our Lady of Perpetual Help Education Centre, known simply as OLPHEC, is home and school to 300 children aged from 0 - 23 from disadvantaged backgrounds. These children come from all over Kenya. Most are orphans left by parents out of the scourge of HIV and from very needy families. Others have been placed there by impoverished families who cannot afford to feed their children while others have been made homeless by tribal conflicts.

The home is run by missionaries and is located in Narumoru, Nyeri county. The home approached D&S Nanyuki for the installation of solar water heaters as well as a solar powered pump at their home. Traditionally, the home would heat their water using firewood, which was expensive and unsustainable. Through the #ImprovingLives Initiative, D&S Nanyuki installed 2 complete solar water heating systems and a 2.2kw solar pumping system. The home is now able to re-direct the money spent on firewood and water to more pressing needs for the children.



**PROJECT VALUE**  
**KSHS 780,000**

**SOLUTION PROVIDED**

Dayliff DSP5/24 2.2kw Borehole Pump complete with motor, 9 \* 200w Solar Panels, State of the art Ground Mount 3M Galvanized Steel Solar Support Structure

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**300**  
Number of children between the age of 0 - 23 who call OLPHEC their home



# HANDWASHING STATIONS - ROTARY PARTNERSHIP



While Kenya has lifted its remaining COVID-19 restrictions, the health minister urged people to continue heeding to public health measures, including handwashing and social distancing. In partnership with the Rotary Club, District 9212, Davis & Shirliff has this year already donated pedal-operated handwashing stations to several schools in the country. The students and faculty were overjoyed at the donation of the units which will alleviate sanitation levels at the school as well as fight the threat of COVID-19.



**PROJECT VALUE**  
**KSHS 680,000**

**SOLUTION PROVIDED**  
**32 Dayliff Pedal-operated Handwashing Stations**

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## THE NEST CHILDREN'S HOME



**PROJECT VALUE**  
**KSHS 895,000**

### SOLUTION PROVIDED

**Pedrollo 5.5kw Borehole Pump,  
Dayliff Control Panel,  
Dayliff 2" Piping,  
Dayliff Water Meter**



The Nest program reaches out to prevent the children of imprisoned mothers from fighting for survival on the streets. They rescue affected children and improve their living conditions during the imprisonment of their mothers. They rehabilitate and later reintegrate them and their released mothers with their extended families and society at large. They also work to create public awareness about the plight of children whose mothers are imprisoned for petty offenses. The D&S #ImprovingLives Initiative partnered with the home to install a borehole pumping system that serves the rescued young mothers and babies.







# DAYLIFE

# SunFI



# Solar Water Pumping SYSTEMS



**SUNFLO-S 150**  
1m<sup>3</sup>/day at 30m head



**SUNFLO-S 300**  
3m<sup>3</sup>/day at 60m head



**SUNFLO-A 600H**  
4m<sup>3</sup>/day at 70m head



**SUNFLO-B 500C**  
6m<sup>3</sup>/day at 40m head



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# PARTNERS

Davis & Shirliff would like to thank its partners who contributed to some of the projects included in this report



## WISH TO BECOME A PARTNER?

Should you wish to support us, please contact our CSR Office  
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or email **csr@dayliff.com**

You will be provided with further details,  
the options being contributions to D&S managed projects  
or a project of your own.

## BRANCHES

KENYA - NAIROBI	KENYA - EASTERN	UGANDA	ZAMBIA
<p><b>Nairobi - Head Office</b> Tel: (254 20) 696 8000 headoffice@dayliff.com</p> <p><b>Nairobi - Westlands</b> Tel: (254) 711 079 683/2/7/8/9 wldoffice@dayliff.com</p> <p><b>Nairobi - Downtown</b> Tel: (254) 715 439 392 downtown@dayliff.com</p> <p><b>Eastleigh</b> Tel: (254) 711 079 645 eastleigh@dayliff.com</p> <p><b>Utawala</b> Tel: (254) 780 575 745 utawala@dayliff.com</p> <p><b>Karen</b> Tel: (254) 726 442 342 karen@dayliff.com</p> <p><b>Ongata Rongai</b> Tel: (254 20) 240 0146 ongatarongai@dayliff.com</p> <p><b>Kiambu</b> Tel: (254) 701 646 309 kiambu@dayliff.com</p> <p><b>Githurai</b> Tel: (254) 758 727 332 githurai@dayliff.com</p> <p><b>Gikomba</b> Tel: (254) 110 597 719 gikomba@dayliff.com</p>	<p><b>Muranga</b> Tel: (254) 780 377 682 muranga@dayliff.com</p> <p><b>Thika</b> Tel: (254) 719 867 504 thika@dayliff.com</p> <p><b>Kitengela</b> Tel: (254) 705 155 522 kitengela@dayliff.com</p> <p><b>Machakos</b> Tel: (254) 712 650 283 machakos@dayliff.com</p> <p><b>Kitui</b> Tel: (254) 701 683 289 kitui@dayliff.com</p> <p><b>Embu</b> Tel: (254) 780 455 512 embu@dayliff.com</p> <p><b>Meru</b> Tel: (254 64) 313 1033 meru@dayliff.com</p> <p><b>Nyeri</b> Tel: (254) 799 496 253 nyeri@dayliff.com</p> <p><b>Nanyuki</b> Tel: (254 62) 203 0018 nanyuki@dayliff.com</p> <p><b>Garissa</b> Tel: (254) 715 494 838 garissa@dayliff.com</p> <p><b>Marsabit</b> Tel: (254) 748 590 140 marsabit@dayliff.com</p> <p><b>Wajir</b> Tel: (254) 780 523 728 wajir@dayliff.com</p> <p><b>Isiolo</b> Tel: (254) 717 125 182 isiolo@dayliff.com</p> <p><b>Wote</b> Tel: (254) 716 884 237 wote@dayliff.com</p>	<p><b>Kampala - Main Office</b> Tel: (256) 783 065 273 UGEnquiries@dayliff.com</p> <p><b>Kampala - Kitgum House</b> Tel: (256 414) 346 337 kitgum@dayliff.com</p> <p><b>Kampala - Nakasero</b> Tel: (256 392) 734 633 nakasero@dayliff.com</p> <p><b>Kampala - Shauri Yako</b> Tel: (256 414) 660 770 shauriyako@dayliff.com</p> <p><b>Gulu</b> Tel: (256 471) 433 041 gulu@dayliff.com</p> <p><b>Mbarara</b> Tel: (256 414) 671 617 d&amp;smbbarara@dayliff.com</p> <p><b>Jinja</b> Tel: (256 392) 001 556 jinja@dayliff.com</p>	<p><b>Lusaka - Main Office</b> Tel: (260 211) 845 010/1 DeptZMSales@dayliff.com</p> <p><b>Lusaka - ChaChaCha</b> Tel: (260 211) 842 350 chachacha@dayliff.com</p> <p><b>Ndola</b> Tel: (260 212) 610 936 ndola@dayliff.com</p> <p><b>Kitwe</b> Tel: (260 212) 221 747 kitwe@dayliff.com</p> <p><b>Livingstone</b> Tel: (260 213) 320 002 livingstone@dayliff.com</p> <p><b>Solwezi</b> Tel: (260 218) 821 822 solwezi@dayliff.com</p> <p><b>Chipata</b> Tel: (260 216) 222 636 chipata@dayliff.com</p> <p><b>Mkushi</b> Tel: (260 211) 433 550 mkushi@dayliff.com</p>
KENYA - WESTERN	KENYA COAST	TANZANIA	RWANDA
<p><b>Naivasha</b> Tel: (254 50) 203 0510 naivasha@dayliff.com</p> <p><b>Lodwar</b> Tel: (254) 724 248 692 lodwar@dayliff.com</p> <p><b>Eldoret</b> Tel: (254) 715 590 000 eldoret@dayliff.com</p> <p><b>Nakuru</b> Tel: (254) 704 613 718 nkroffice@dayliff.com</p> <p><b>Narok</b> Tel: (254) 701 683 283 narok@dayliff.com</p> <p><b>Kakamega</b> Tel: (254 56) 203 1889 kakamega@dayliff.com</p> <p><b>Kitale</b> Tel: (254) 748 590 143 kitale@dayliff.com</p> <p><b>Bungoma</b> Tel: (254) 740 048 514 bungoma@dayliff.com</p> <p><b>Kisumu</b> Tel: (254) 724 352 504 ksmoffice@dayliff.com</p> <p><b>Kisii</b> Tel: (254 58) 203 0949 kisii@dayliff.com</p> <p><b>Kericho</b> Tel: (254) 780 703 197 kericho@dayliff.com</p> <p><b>Nyahururu</b> Tel: (254) 724 682 165 nyahururu@dayliff.com</p>	<p><b>Mombasa - Main Office</b> Tel: (254 41) 249 0868 mombasa@dayliff.com</p> <p><b>Mombasa - Downtown</b> Tel: (254) 780 567 379 mombasadowntown@dayliff.com</p> <p><b>Malindi</b> Tel: (254) 728 608 363 mldoffice@dayliff.com</p> <p><b>Diani</b> Tel: (254 40) 320 2181 dianooffice@dayliff.com</p> <p><b>Lamu</b> Tel: (254 20) 265 1052 lamu@dayliff.com</p> <p><b>Nyali</b> Tel: (254 20) 244 3357 nyali@dayliff.com</p> <p><b> Voi</b> Tel: (254) 702 156 990 voi@dayliff.com</p> <p><b>Mtwapa</b> Tel: (254) 798 478 113 mtwapa@dayliff.com</p> <p><b>Watamu</b> Tel: (254) 798 935 788 watamu@dayliff.com</p> <p><b>Hola</b> Tel: (254) 725 333 742 hola@dayliff.com</p>	<p><b>Dar es Salaam - Main Office</b> Tel: (255 22) 211 2515 daressalaam@dayliff.com</p> <p><b>Dar es Salaam - Kariakoo</b> Tel: (255) 693 295 855 kariakoo@dayliff.com</p> <p><b>Arusha</b> Tel: (255 27) 254 7317 arusha@dayliff.com</p> <p><b>Zanzibar</b> Tel: (255) 774 202 069 zanzibar@dayliff.com</p> <p><b>Mwanza</b> Tel: (255) 783 451 540 dmwanza@dayliff.com</p> <p><b>Dodoma</b> Tel: (255) 753 506 530 dodoma@dayliff.com</p> <p><b>Mbeya</b> Tel: (255) 769 963 220 mbeya@dayliff.com</p>	<p><b>Kigali</b> Tel: (250 252) 504 039 kigali@dayliff.com</p> <p><b>Rubavu</b> Tel: (243 814) 326 631 rubavu@dayliff.com</p> <p><b>Gakiriro</b> Tel: (250 781) 182 374 gakiriro@dayliff.com</p>
		SOUTH SUDAN	GHANA
		<p><b>Juba</b> Tel: (211) 927 000 020 juba@dayliff.com</p>	<p><b>Accra</b> Tel: (233) 552 711 577 ghana@dayliff.com</p>
		SOMALIA	ETHIOPIA (Associate)
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