

DAVIS & SHIRTLIFF

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IMPROVING LIVES CSR REPORT H2 2021

[#ImprovingLives](#)

FOREWORD



It is impossible to reflect on 2021 without looking back at how the world has irreversibly changed since the onset of the global pandemic which continues to devastate lives and economies. While life will remain disrupted for some time to come, the mass distribution of vaccines has demonstrated humanity's ability to meet the challenges it faces, albeit with varying degrees of success.

At Davis & Shirliff, and through our Improving Lives Initiative, we seek to build stronger, more robust communities everywhere we do business. As the world works to end its reliance on fossil fuels and non-renewable energy altogether, heavy investment in solar and other sources of clean energy are now seen as a critical part of the strategy to mitigate the consequences of climate change.

Working to address the crisis in accessing water in Africa and its associated social impacts is core to the Davis & Shirliff's *#ImprovingLives* Initiative. Building on the company's position as the region's leading supplier of water and energy related equipment, we continue to partner with like-minded organizations to increase access to clean potable water utilizing sustainable and renewable energy sources where possible. Our solar installations have been a great success, using Dayliff Solar Pumping kits specifically to replace manually operated and inherently unreliable handpumps.

Over the last four years, Davis and Shirliff's *#ImprovingLives* Initiative has transformed the lives of over 850,000 people across the region and during this time the initiative has undertaken over 430 projects, 70% being in rural areas with 30% in densely populated urban, peri-urban and informal settlements.

Our Covid-19 response projects have also been a priority through focusing on under-resourced educational institutions and representing 25% of the total completed projects. 61 water access projects have been completed in schools and they make up 35% of the lives improved.

Sustainable solar energy projects represent over 50% of all projects and comprise of complete solar pumping installations, solarization of existing boreholes, and provision of solar energy solutions for lighting applications in schools. 14% of the project have converted previously diesel or mains-powered sources to solar, greatly reducing carbon emissions.

Now looking forward to 2022, Davis & Shirliff maintains its ambitious CSR plans. Our mission remains to improve access to clean, potable drinking water using sustainable renewable energy for schools, children's homes, and underserved communities.

At Davis & Shirliff, we believe in working together and that partnerships are crucial to tackling the multiple and complex issues around access to water. Our partners give us unique perspectives, expertise and resources that have enhanced the success of the *#ImprovingLives* initiative and we take this opportunity to sincerely thank them for their efforts.

Herein are a few success stories collected from a selection of the projects executed in the second half of 2021.

Enjoy the issue!

GROUP CHAIRMAN, DAVIS & SHIRLIFF
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

IMPACT SINCE 2018: **TOTAL PROJECTS: 438** **TOTAL BENEFICIARIES: 850,600**

DAVIS & SHIRTLIFF NOMINATED AS THE 9TH TOP BRAND IN KENYA FOR TRANSFORMING LIVES



MIKE ELDON
Non Executive Director

In its September-October 2021 issue, Business Monthly celebrated Davis & Shirliff as 9th among the Top 25 brands that most transformed lives in Kenya. "Consumers, employees and others are now attracted to brands that resonate with their own values and look beyond the bottom line to make a positive impact on the societies in which they operate," the magazine's publisher Dr Hannington Gaya wrote in the introduction to the rankings – where M-PESA emerged 1st and ABSA Bank 2nd.

Over the past decade there has been a paradigm shift in what a successful brand represents. Businesses have come a long way from the 1800s, when the industrial revolution favoured companies that could efficiently mass produce their products, however roughly they treated their employees or however much they harmed the

environment. Currently, brands are being challenged to become more enlightened, treating all stakeholders fairly. An enlightened brand is one that looks beyond its bottom line to connect with the communities where it engages, often through solving the socio-economic problems in these communities. Millennials want to see more socially responsible companies, whether as customers or employees. To millennials, companies should invest in improving society, and do well by doing good.



In the nomination article, Business Monthly highlights D&S's driving philosophy of "Putting purpose before profit" as being a key reason enabling the firm to nurture a culture that supports sustainable growth. The writer points out that the D&S culture is "real and meaningful at every level of the company, from the board to the youngest recruit, from head-office to the field offices, from back-office to front office". The article also commends Davis & Shirliff on its commitment to excellence on multiple fronts: to its three values (Quality, Integrity and Altiora Petro); to its commitment to frequently training and empowering its staff; to evolve with the times and keep up with technological trends and so as to improve efficiency and customer service.

As evidenced by the dramatic decline of companies like Kodak, Nokia and BlackBerry, change is life's only constant and to hold on to their success, businesses must be agile in taking account of the ever-changing economic and technological landscapes. Davis & Shirliff has not only thrived in the digital revolution, but has been proactive in other ways too in leveraging its resources to provide highly appreciated services for its customers. With innovations like iDayliff, a remote monitoring hardware for its pumps, and user-friendly mobile apps for its staff and customers, the firm has adapted and evolved.

Davis & Shirliff was also commended for its integrity in dealing with its varied stakeholders – including its over 35 international suppliers and its local ones too. The article goes on to commend the company for maintaining high quality standards, as evidenced by its ongoing ISO certification. For Davis & Shirliff, a conscientious supply chain is not simply the proper thing to do – It is also good for business. In dealing with its suppliers, the firm expects the highest ethical standards throughout its supply chain, and promotes meaningful social change through partnering with suppliers in its Improving Lives Initiative.



The magazine celebrated corporate brands that “have in place long-term strategic CSR embedded in their overall strategies,” ones which are being “quietly implemented without the often much sort after publicity for the corporation or its Chief Executive Officer”. The issue shone a spotlight on what they called “shy” CSR programmes. The nomination was awarded to D&S based not on the size of the initiative but “on the transformative effect on the lives of ordinary folks, including in areas where no corporate would dare venture”.

While many firms are now taking up the CSR mantle, many have not mainstreamed their CSR programmes into their company strategies. As the Benjamin Franklin quote goes, failing to plan is planning to



fail. Without proper strategies being formulated to ensure sound principles and sustainable practices, the focus is often placed on projects which only allow for short-term impact, however heavy the public relations exposure at the time. To achieve long-term, meaningful impact, companies need to plan for projects that make a sustainable difference, and – as is the case with Davis & Shirliff – to collaborate with other players to amplify the scale and the impact.

Davis & Shirliff's mission is to tackle one of Africa's biggest challenges: the lack of access to water. Operating in a water-scarce continent, the company plays a major role in connecting individuals, institutions and communities to this precious resource.

Noteworthy is how the company designs its projects to make them sustainable in the long term, as a result of which they readily align with three of the United Nation's Sustainable Development Goals: ensuring the availability and sustainable management of water and sanitation for all, SDG 6; ensuring access to affordable, reliable, sustainable and modern energy for all, SDG 7; and collaborating with other players to achieve its goals, SDG 17.



Davis & Shirliff has devised CSR policies and programmes that address the interests of all stakeholder groups. The company's guiding principle, “One person working alone is limited in their endeavours; many people working together have no limit to their achievement”, is an important way to promote teamwork among its staff and with all its partners. In addition, the firm's philosophy, “Purpose before Profit”, drives it to engage in meaningful CSR activities that benefit the communities where they operate while empowering, growing and motivating its staff.

Needless to say, we are delighted to have been selected as one of the top brands that transform the lives of Kenyans... as we do in all the countries where we operate.

D&S ROTARY HANDWASHING PARTNERSHIP



Recognizing that education is a pathway out of poverty, the Davis & Shirtliff Improving Lives Initiative has partnered with The Rotary District 9212 to combat the threat of COVID-19 in 40 Kenyan public schools. The partnership has looped in 27 Rotary Clubs across the country and will improve the lives of over 38,000 lives. The partnership will see to the donation of handwashing stations to the 40 schools across the county. The project was kicked off at Plainsview Primary School in South B, where the donation of five handwashing stations was made. Since then, 10 schools have received the handwashing stations and have all expressed their gratitude for the donations. The Rotary, D&S partnership was pioneered by finance director George Mbugua, and Rotarian, Dr. Patrisio Njeru, both of whom are pictured below.



COST
KSHS 2,288,000
SOLUTION PROVIDED
Handwashing Stations
DAYLIFF





40
The number of schools that handwashing stations will be donated to across the country.



THE ESG PARTNERSHIP SIGNING CEREMONY



The environment is becoming increasingly important as the world rapidly develops to cater for the high population growth rates. The rise in the number of industries, demand for power and water, environmental pollution etc. have all become significant in the last couple of centuries. All these human activities have led to depletion of natural resources, high competition between the living species and a general decline in the quality of life. Access to water has become more difficult, thanks to depletion of forest reserves and climate change. Whole ecosystems are changing forcing many people to adapt to the new way of life. It is impossible to continue with business as usual if we are to reverse this trend. In other words, the world might not be habitable in the next couple of centuries if we do not act today.

Davis & Shirliff, Novartis, and like-minded partners have identified community boreholes in the region of Kyaani, Mitaboni & Ngu Nyuumu in Machakos County that can greatly benefit from increased access to water. There are 3 existing boreholes that had not been in use for approximately 10 years and have a potential to improve 11,000 thousand lives. Discussions at the community, county and corporate level birthed the ESG Partnership agreement. The partnership has increased access to 25,000 litres of water per hour in the community. The partnership agreement was signed in the Deputy Governor's Office, led by H.E. Eng. Francis Maliti.



10 YEARS
The number of years the three boreholes were not in use



COST
KSHS 314,000

SOLUTION PROVIDED

DSD 3/7 0.37kw Borehole Pump,
5 X 200w Solar Panels, Dayliff
SV2 1.5kw 1ph Controller,
Galvanised Steel Roof Mount
Solar Support Structure

DAYLIFF



COMMUNITY WATER SUPPLY: SOLAR PUMPING SOLUTIONS PROVE MOST SUSTAINABLE IN MACHAKOS COUNTY



Proper management of water resources ideally entails matching water supply to water demand so that residents of a community do not have to go to extreme lengths for a resource that has been deemed so essential, it is considered a human right. In reality, however, several factors come into play and residents find themselves walking long distances to find clean potable water or fetching water from unsafe sources. In Kyaani, Machakos County, about 4000 community members have recently gained access to a high yielding borehole which will fortunately afford them convenient access to water. The borehole, with a yield of 18,000 litres per hour, had stalled for several months. The D&S #ImprovingLives Initiative, through partnership with Novartis International and The Rotary, rehabilitated the entire pumping system and upgraded it to run on solar. The borehole was fitted with a 15kW Dayliff pump, complete with all the required accessories, and an array of 72 solar panels which were mounted on a state of the art, 3M galvanized steel structure. The commissioning ceremony was graced by the Deputy Governor of Machakos, H.E. Eng. Francis Maliti, several members of the county leadership as well as several corporate representatives including Equity Group Foundation, Procter & Gamble, The Rotary and Novartis International. Present from Davis & Shirliff was Eng. Benjamin Ochelle (BMO), Christopher Muli (Branch Manager, Machakos) and CSR Coordinator Nur Riday.



18,000
Litres per hour that the borehole yields



COST
KSHS 3,800,000

SOLUTION PROVIDED

Dayliff DS17 15kW Borehole Pump,
Dayliff AC Solar Pump Controller
(Sunverter 15kW 3ph), 72 no. Dayliff 330W
Crystalline Solar Module, Dayliff High
Strength Galvanised Steel Structure
3M High, Borehole Accessories

DAYLIFF





IMPROVING LIVES

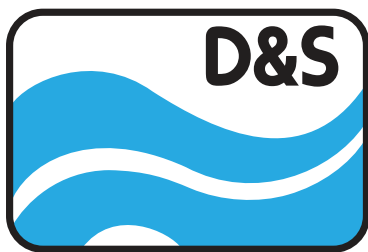
through

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SOLUTIONS

for **75** years

EST.
1946



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SHIRTLIFF**

know **H₂O**w through experience



davisandshirtliff.com

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

SOLVING ACCESS TO WATER IS SOLVING ACCESS TO EDUCATION



Education is at the center of building human capital. For a country, it drives long-term economic growth, reduces poverty, and spurs innovation. Lack of convenient access to potable water is one of the issues that contribute to absenteeism in schools. The most affected area in Kenya, is the Northern Kenya region with a school retention rate of 36%. Failure to complete primary or secondary school limits future opportunities for children, fueling the vicious cycle of poverty in these areas. Garse Khoftu Secondary School, in Wajir County, Kenya, has an enrollment of one hundred boys, who previously had to walk to a river to fetch water for their use. Through the Improving Lives Initiative, D&S Wajir donated and installed a Dayliff DS5 borehole pump, powered by twelve 250W solar panels, mounted on a Davis & Shirliff 3M galvanized steel structure. The donation was made in partnership with the school, who made a 10% contribution to the project, to promote sustainability of the same.



COST
KSHS 920,000

SOLUTION PROVIDED

Dayliff DS5-25 (2.2kW) Borehole Pump, Dayliff AC Solar Pump Controller (Sunverter 3.7kw), 12 no. 275W Solar Modules, Dayliff UPVC Borehole Pipes, Borehole Installation Accessories, Sundries

DAYLIFF

MITABONI COMMUNITY WATER SUPPLY REVIVED AND RUNNING SUSTAINABLY



The semi-arid, hilly terrain of Machakos County, Kenya, depends on three main sources for its water supply – boreholes being one of them. The Mitaboni community borehole, Machakos County, was first commissioned in September of 2006. The borehole, situated at the chief's camp, was initially powered by a generator which proved costly and unsustainable to run, and eventually led to the stalling of the project. Davis and Shirliff, in partnership with Novartis International and The Rotary, replaced the entire faulty pumping system, and fitted it to run on solar power. The borehole was fitted with a 1.5kW borehole pump, powered by eighteen 200W solar panels mounted on a 3m galvanized steel structure. The Borehole now services over 4,000 community members. With water now available, and in the spirit of environmental conservation, the Equity Group Foundation pledged to donate over 5,000 tree seedlings to be planted in Mitaboni.



COST
KSHS 1,168,000

SOLUTION PROVIDED

Pedrollo 4SR2/23-F 1.5kW Borehole Pump, Dayliff AC Solar Pump Controller (Sunverter 3.7kW 3ph), 18 no. Dayliff 200W Crystalline Solar Modules, Dayliff High Strength Galvanised Steel Structure 3M High, Borehole Accessories

DAYLIFF

1.5kW
 The power of the borehole pump fitted for the borehole to run on solar power





4000
The number of
community members that the
borehole will serve

THE RESUSCITATION OF NGUNYUMU COMMUNITY BOREHOLE



Africa appears blessed with abundant water resources but is actually the second driest continent in the world, with millions of Africans suffering water shortages throughout the year. Kenya, a water scarce country by global standards, is not spared the continent's fate. While the looming drought in the country is expected to affect 10 out of 47 counties, its citizens grapple with acute water shortages in most towns. Counties and communities have resorted to drilling boreholes and relying on them for water supply. This method of has proven successful with the only setback being the sustainability of the water projects. Davis and Shirtliff, in partnership with Novartis and The Rotary, have recently rehabilitated a stalled community borehole in Ngunyumu. The partners have equipped the borehole with a 7.5kW borehole pump, powered by thirty six 330W solar panels mounted on a 3m galvanized steel structure. The resuscitated borehole will serve a community of over 5000 people.





COST
KSHS 2,126,000

SOLUTION PROVIDED

Pedrollo 4SR8/43-F 7.5 kW Borehole Pump, Dayliff High Strength Galvanised Steel Structure 3M High, Dayliff AC Solar Pump Controller (Sunverter 7.5 kW) , 36 no. Dayliff 330W Crystalline Solar Modules, Borehole Accessories

DAYLIFF



5000
The number of people the resuscitated borehole will serve

SOLAR BOREHOLE FOR THE JUMBOS AT SELENKAY CONSERVANCY



As the world increasingly moves towards water insecurity, the sustainable businesses of the 21st century will be those that build their product lines around circular economies. Solar energy as a substitute for fossil fuel is not just environmentally friendly, it is also, smart business. Humans, through their highly evolved lifestyles, have caused the world's water depletion, and every other species on earth is being affected by it. There are over 110 conservancies in Kenya and nearly all will cite human-wildlife conflict as their biggest pain point. When the jumbos of Selenkay Conservancy find their usual watering holes dry, they cross over to the community's borehole, damaging property, and in some instances, causing loss of lives. The Davis & Shirtliff Improving Lives Program, in partnership with the Selenkay Conservancy, have solarized the Ndonyo Ndare Borehole, which now runs efficiently, on clean energy, and without constant human intervention, keeping the animals happy and the community safe.





COST
KSHS 661,000

SOLUTION PROVIDED

Dayliff AC Solar Pump Controller (Sunverter 3.7KW 1PH), Dayliff High Strength Galvanised Steel Structure 3M High, 9 no. Dayliff 335W Solar Panels



There are over
110
conservancies in
Kenya

CONFLICT MANAGEMENT IN GARISSA COUNTY THROUGH MANAGING THE THREAT OF COVID 19



COST
KSHS 143,000

SOLUTION PROVIDED

Handwashing Stations

DAYLIFF

Pastoralism is a way of life that has been in place for millennia in some of the world's harshest environments, including the vast arid of East Africa. To stop the spread of COVID-19, the Kenyan government, in 2020, closed the formal markets that pastoralists use to sell their livestock. As in many parts of the world, the socio-economic effects of the pandemic were felt in the community's wallets, as food prices increased. In Northern Kenya, increased conflict was yet another side-effect of the virus, threatening the pastoralists wellbeing and security. The Davis & Shirtliff #ImprovingLives Initiative has, through the Garissa branch, donated several handwashing stations to the health department, which have been placed in public areas to combat the threat of the virus in the region. The handing over ceremony was held at the D&S Garissa Branch, and in attendance was the Garissa branch staff, led by manager, Wilson Mbutia, Public Health Officer Phillip Njogu, Community Strategy Focal Officer Suleiman Mohamed, and Dr. Mohammed, from the MOH Garissa Sub-County.



NEED A **PROJECT** UNDERTAKEN?

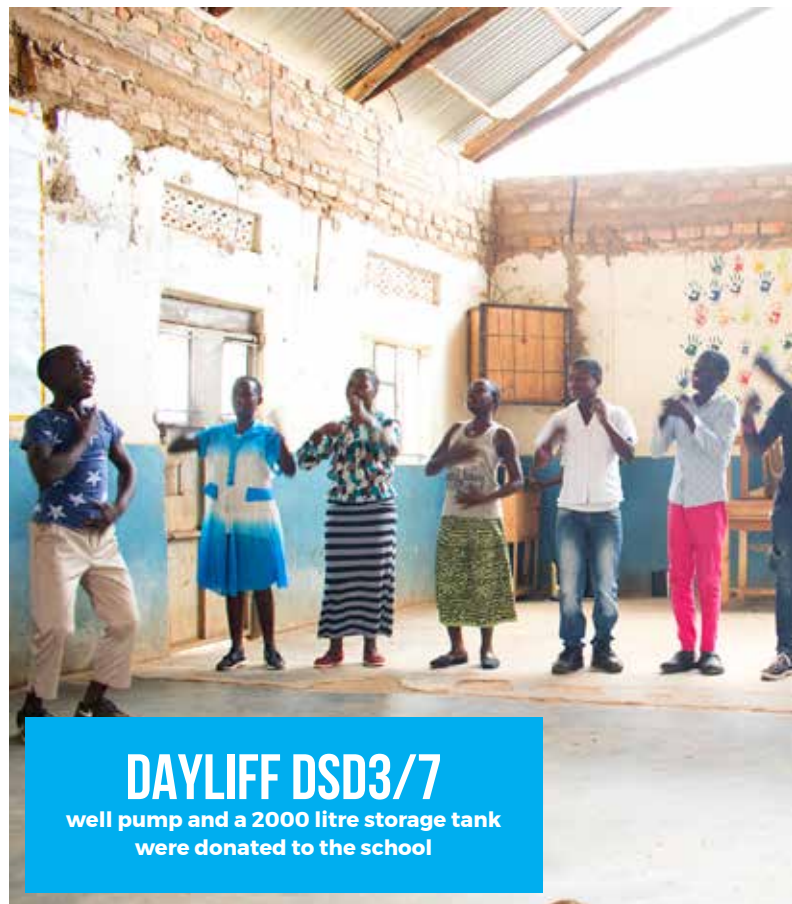
Submit your application through the CSR portal
on the Davis & Shirliff website

www.davisandshirliff.com/csr-eligibility-form

ST. ANTHONY'S SCHOOL FOR THE DEAF - HOW A PUMPING SYSTEM KEPT THE SCHOOL'S INCOME GENERATING PROJECT ALIVE



St. Anthony's is a school for the hearing impaired in Nkozi, a town in central Uganda, founded by Fr. Anthony and run through proceeds received from the school farm. For several months, the school had been having severe water challenges which drove them to pursue a hand-dug well, through some support from the parents. The well was dug before the lockdown period in the country, which affected school attendance and subsequently its ability to equip the well. Through the D&S Improving Lives Initiative, the D&S Kampala Main Office donated and installed a Dayliff DSD3/7 well pump and a 2,000ltr storage tank. As part of their contribution to the project, the school erected a tank tower near the well. Thanks to the Dayliff pumping system, the school is now able to provide water for both the school's consumption as well as its farming needs.



DAYLIFF DSD3/7

well pump and a 2000 litre storage tank were donated to the school



COST
KSHS 65,000

SOLUTION PROVIDED

Dayliff DSD 3/7 0.37KW Well Pump,
2000L Storage Tank, Pipes,
Fittings, Cables and
Sundries



KEAA ABC SECONDARY SCHOOL, MACHAKOS

The re-opening of schools in Kenya enters its 14th month, and schools across the country have reported positive coronavirus cases. Kenya has since eased COVID-related restrictions in the country, owing to the decline in reported cases over the past few months. With many students being asymptomatic, teachers, especially those over the age of 50, or those with underlying conditions, must be especially careful while on the clock to avoid contracting the virus. Some critics have been calling for renewed school closures to shield the teachers and students. Schools are therefore very high-risk centers and public schools, having limited resources, are vulnerable in the war against the coronavirus. It is with this in mind that the #ImprovingLives Initiative, through the Machakos branch, have donated 5 handwashing stations to KEAA ABC Secondary school. The school is in Machakos County, Kenya, and has a population of 270 students. The handing over of the handwashing stations was attended by D&S Machakos Branch, led by Branch Manager, Christopher Muli.



COST
KSHS 143,000

SOLUTION PROVIDED

Handwashing
Stations

DAYLIFF



PARTNERSHIP WITH LAKE VICTORIA WATER WORKS DEVELOPMENT AGENCY



The Davis & Shirliff #ImprovingLives Initiative has partnered with the Lake Victoria Water Works Development Agency to distribute handwashing stations to schools in Busia County. LVWDA approached D&S, through the Kakamega Branch requesting for partnership in this noble program, especially in school in the rural areas of the County. According to the agency, most of the schools are not fully prepared for COVID compliant operations, hence the need to support the installation of hand washing points in these schools. The donations have been made to Bungoma DEB Primary School, Kamukuywa Primary School, and Makutano Primary School.



COST
KSHS 125,000

SOLUTION PROVIDED

Handwashing Stations

DAYLIFF

SCHOOLS IN SHIANDA, KAKAMEGA JOINING THE FIGHT AGAINST COVID-19



Following the outbreak of the covid 19 pandemic, it has become mandatory for every school to adhere to COVID 19 regulations for the well-being of the students. However, for schools like Ikoli Primary School and Emutetemo Primary school, it is necessary to look beyond their parents for support to acquire all the required tools prescribed to keep the threat of the pandemic at bay. The schools serve the under-served populations of Shianda, Kakamega County. In its persistent resolve to honor its pledge to the community, the D&S #ImprovingLives Initiative has donated handwashing stations to the two schools, which will be key in the ongoing battle against COVID19. The handover ceremony was attended by Kakamega Branch Manager, Loise Mutua, along with D&S staff, Lydia Auma and Elphas Bor.



COST
KSHS 286,000

SOLUTION PROVIDED

Handwashing
Stations

DAYLIFF



2,400
Number of Lives Improved



ENSURING THE SUSTAINABLE AVAILABILITY OF WATER FOR RESIDENTS OF TURBI



Water is very critical for the populace to maintain the highest standard of hygiene and sanitation particularly in mitigating the adverse effects of the Covid-19 pandemic. Marsabit, being an arid and water scarce County, has one of the lowest levels of community access to water. The Lag III Warbesa borehole, in Turbi, Marsabit, had been running on a diesel generator. The community, through PACIDA, a D&S partner and organization that works with the poor and vulnerable communities in Marsabit, requested for the solarization of the borehole. Running on a diesel generator was costly to operate and the community would sometimes go without water due to lack of immediate funds to fuel the genset. This intermittent access to water was also caused by the semi-occasional break downs of the generator. During these down-times, the community would have to trek long distances in search of water. D&S Marsabit, under the leadership of Branch Manager Gideon Korir, and in partnership with PACIDA, solarized the borehole and commissioned the project on the 6th of May 2021.



COST
KSHS 1,297,000

SOLUTION PROVIDED

**48 no. 330W Dayliff Solar Panels,
Dayliff AC Solar Pump Controller
(Sunverter 7.5KW 3PH)**

DAYLIFF

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Great Pumps, Great Value!

BOREHOLE SOLUTIONS



The Brand of
D&S DAVIS & SHIRTLIFF
know H₂O through experience

The Best Borehole Solutions Available!



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USING RENEWABLE ENERGY TO IMPROVE LIVES IN TAVETA COUNTY



Three hundred and ten kilometers from Nairobi, in a village with a population of two thousand people, lies Kiwalwa Primary School. Kiwalwa village has been experiencing water challenges in accessing clean and safe water, and since its inception, Kiwalwa Primary School has not had running water in their taps. In response to a call to action circulated in March 2020, the school put in an application for the rehabilitation of an old well, which had been fitted with a handpump. The #ImprovingLives Initiative, through the Voi branch, have replaced the broken down handpump with a Dayliff Sunflo solar pumping system. The commissioning ceremony, was attended by both Head Office and Branch staff, led by Branch Manager, Michael Wajwang'a. The school principal, teachers and students expressed their gratitude to D&S for the donation, while also appreciating the advantages that come with using renewable energy. The water, pumped at no cost, is not only benefitting the primary school, but the adjacent Secondary School as well, and the local community.



COST
KSHS 180,000

SOLUTION PROVIDED

**Dayliff Sunflo B 500C
Solar Pumping
System**

DAYLIFF



MOI GIRLS ISINYA SOLARIZATION PROJECT



Moi Girls Isinya is a secondary school in Kajiado County, Kenya. The institution had a borehole equipped with an electric pump. It has been receiving high electricity bills associated with the pumping system, which heavily strained its budget. The school pumps water for its own consumption and sells about 300,000 liters per month to the locals at the subsidized price of KES 0.25 per litre. The D&S Solar Department has successfully solarized the 7.5kW borehole pump, enabling the pumping system to run on zero costs and in turn to be a self-sustaining project. Through the #ImprovingLives Initiative, the project was partially sponsored, with the school contributing only a portion of the costs as its contribution. This project will enable the school to pump water even for agricultural use and the school greening programme. The cost of water per litre to the locals will also go down. Most importantly, the 1200 students at the school will be direct beneficiaries of the project.



COST
KSHS 874,000

SOLUTION PROVIDED

Dayliff AC Solar Pump Controller (7.5kW Sunverter), 34 no. Dayliff 335W Solar Panels, Solar PV Disconnect, Dayliff High Strength Galvanised Steel Structure 3M High, Armored Cabling, Solar PV Cabling

DAYLIFF



OFFERING WATER TO THE ENTIRE COMMUNITY: THE STORY OF ST LUKES ODIADO SECONDARY SCHOOL



Schools were created to offer a quiet, studious environment, which allows students to pay attention to their studies away from any distractions. In St Lukes Odiado, Busia County, the school had to forego these benefits. Their well was equipped with a hand pump, which served both the students and community members. The school was abuzz with locals walking in to fetch water for their daily use, and pupils queuing to fetch some for themselves too. Fetching water consumed time, and provided a much too often distraction to the pupils. Davis and Shirliff Bungoma Branch, through the company's *#ImprovingLives* Initiative, donated and installed a Dayliff DSP pump, which now conveniently offers water to the secondary and primary school. The community is able to tap water from outside the school compound, and the students have a peaceful and quiet environment to concentrate on their studies.

COST

KSHS 710,000

SOLUTION PROVIDED

Dayliff DSP3-16 1.1kW Borehole Pump End, Dayliff High Strength Galvanised Steel Structure 3M High, Dayliff MJ DN32 Multijet Water Meter, Dayliff AC Solar Pump Controller (Sunverter 3.7kw 3ph), 15 no. 270W Dayliff Polycrystalline Module

DAYLIFF





THE PUMPING EVOLUTION; FROM MANUALLY OPERATED HAND PUMP TO A ZERO-COST SOLAR PUMP



Sira Nyawita community self-help water project was started in 1986 and was initially financed by the Kenyan and Finland government collaboration (KEFINCO). Due to increased demand for water, the hand pump was later upgraded to an electric pump in 1991. The water project is community-based and serves a population of four thousand people, including over 250 households, four schools, a college, some churches, and five water kiosks. In the management of the water project, the administration has been running very high operational costs, whilst still charging subsidized rates to the consumers. It is for this reason that they approached the D&S #ImprovingLives Initiative, seeking for a solar solution that would allow them to pump the water at minimal cost. The solarized borehole, implemented by D&S Kisumu, was commissioned on 13th May 2021 at a colorful ceremony in the school. Pictured below, are D&S Kisumu staff members led by Branch Manager Kennedy Ojunge.



COST
KSHS 446,000

SOLUTION PROVIDED

16 no. Dayliff 275w solar panels,
PV Disconnect Switch, Dayliff AC Solar
Pump Controller (Sunverter 3.7kW),
Dayliff High Strength Galvanised
Steel Structure 3M High

DAYLIFF

1991
The year the hand pump was upgraded to an electric pump



A LETTER OF GRATITUDE FROM A PUPIL OF NYAKONGO BOYS HIGH SCHOOL



The Nyakongo Boys High School is in Gesima town, Nyamira County and has a population of 2200 pupils. The school, through support of their parents, drilled a borehole after a long period of water inaccessibility. They, however, were not able to equip the borehole and approached The #ImprovingLives Initiative to intervene. Through the Kisii Branch, the #ImprovingLives Initiative installed a Dayliff borehole pump, powered by an array of 8 solar panels of 335W each. The panels were mounted on a state of the art, Dayliff, 3m steel structure and a 1.5kW Dayliff solar controller was also installed. Below, is a brief extract of one of the various letters of gratitude that were read out loud at the commissioning ceremony.

"On behalf of the student body, I wish to thank Davis and Shirliff, who have worked tirelessly to ensure that we have sufficient water in our school. Our school has been undergoing many challenges due to inadequate water supply. Before the inception of this project, there used to be an outbreak of water borne diseases which affected most of our students. When people have better access to water and sanitation, they are healthier and they can also work more productively, live more fully, and contribute more to society. Significantly, the water project by Davis & Shirliff in our school has greatly assisted our school especially in working to decrease the incidences of waterborne diseases."





COST
KSHS 693,000

SOLUTION PROVIDED

Dayliff DSP5-16 Borehole Pump, 8 no.
335W Dayliff Solar Panels, Dayliff AC
Solar Pump Controller (SV3 1.5 kw),
Dayliff High Strength Galvanised
Steel Structure 3M High



THE DONATION OF HANDWASHING STATIONS TO TALA GIRLS HIGH SCHOOL, MACHAKOS



Through the Improving Lives Initiative, D&S Machakos under Branch Manager Christopher Muli have donated handwashing stations to Tala Girls High in Machakos County. Tala Girls High School is an extra county level secondary school located in Matungulu Sub-County. The donation was done in response to an application made by the school, through the company website, to promote hand washing among the students. The stations will benefit over 500 people in the school and local community. During the commissioning ceremony, the school principal, Mrs. Annabel Kiriinya expressed her gratitude to Davis & Shirliff for the donation. Pictured are teachers and students during the handover ceremony.



COST
KSHS 68,000

SOLUTION PROVIDED

Handwashing Stations

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500
Number of people who will benefit from the handwashing stations



A SOLAR PUMPING SYSTEM SAVING LIVES IN TRANS NZOIA COUNTY

Wamueni Secondary School is about 8km from Kitale town and almost 400km to Kenya's capital. The school has 100 girls and 102 boys enrolled who are taught by 7 teaching staff. In their compound is a hand dug well that serves the community, as well as the Primary School that is adjacent. The well, throughout the years, has played a vital role in providing water to the locality. It has however also been posing a great risk to its users. The well was left dangerously open at the top to allow for the manual water-drawing mechanism of using a rope tied to a bucket. In addition to being hazardous, a lot of time was wasted while fetching water in this way, not mentioning the frequent breakdowns. The #ImprovingLives Initiative, through Davis & Shirliff Kitale, have donated and installed a Dayliff Sunflo A 270H solar powered pumping system. The pumping kit is a complete solution supplied with a controller, solar panels, and steel support structure for smaller scale applications. The donation of the solar pumping system will not only save time but also ensure smooth operations within the school and most importantly, remove the risk that was formerly attached to fetching water. As their contribution to the project, the school put up a storage tank, strategically positioned for both primary and secondary use.



COST
KSHS 126,000

SOLUTION PROVIDED

Dayliff Sunflo A-270H Solar pumping System, Dayliff High Strength Galvanised Steel Tin Roof Mount Structure, Piping

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THE SCHOOL WELL THAT UNIFIED AN ENTIRE COMMUNITY



George Khaniri Secondary School, Kaptis special school, Kaptis Primary School, and the Shaviringa community have recently benefited from a project to install a Dayliff sunflo solar pumping system in a local well. The three schools and local community are not connected to the municipal supply and have, for an extended amount of time, been dependent on the well even without a well pump installed. Upon hearing of the D&S #ImprovingLives Initiative, the principal to George Khaniri Secondary approached the Westlands Branch with an application for D&S intervention. The well, located in Kaptis Primary School, was equipped with a Dayliff Sunflo - B 500C solar pumping system, a high strength, long lasting steel tank tower, a PV module support structure, and a 3000 litre storage tank. Present at the commissioning ceremony was Dr. Patrick Saisi, Vihiga County Deputy Governor, the area chief, the school PTA, parents, teachers, school board and staff members from D&S Westlands and D&S Eldoret.



COST
KSHS 360,000

SOLUTION PROVIDED

Dayliff Sunflo - B 500C pumping system, Dayliff galvanized steel Suntower c/w tank and PV Support, Piping, Sundries

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DONATION OF HANDWASHING STATIONS TO ST. CATHERINE'S PRIMARY SCHOOL



St. Catherine's Primary School is situated in South B, Nairobi. It was set up in the early 2000s to encourage children from the informal settlements neighboring it, Mukuru Kayaba, to get an education. The school has had its challenges and at one-point, catholic nuns had to stand in front of riot police with tear gas to save the school from land grabbers. Currently, the school has around 1500 students, all living in Mukuru Kayaba. The D&S #ImprovingLives Initiative, in partnership with The Standard Group, have donated handwashing stations to the school, in response to an application made by the school to support it in the fight against the coronavirus.



COST
KSHS 52,000
SOLUTION PROVIDED
Handwashing Stations
DAYLIFF



THE MOVE TO RENEWABLE ENERGY FOR A PRIMARY SCHOOL IN KAPSERET CONSTITUENCY



St. Georges Primary School is in Uasin Gishu county, Kapseret constituency. It was started in 1988 and the current population is 509 pupils which includes those with special needs. It is a public school which has both boarding and day schooling. Their borehole was drilled and equipped by The Rotary Club of Uasin Gishu. They have been having challenges in settling their electricity bills which averaged at KES. 30,000 monthly and a higher percentage of the bill was attributed to the borehole pump. This is what prompted them to approach Davis & Shirtliff for CSR support through their chairman Dr. Gilbert Bor.

They have an SP3A-25 borehole pump which supports the primary school, secondary school, and their sponsor church Davis & Shirtliff Eldoret, through the #ImprovingLives Initiative, installed a solar system to power the borehole pump which comprised of a Dayliff 3.7kW controller, an array of 14 * 200W solar panels and other accessories. The donation and installation was fully sponsored by the initiative. The school is delighted with the project, as expressed by the headteacher Madam Susan Rono, and now looks forward to channeling the expected savings to other critical functions.



COST
KSHS 577,000

SOLUTION PROVIDED

18 no. 150w Dayliff Solar Panels, Dayliff AC Solar Pump Controller (Sunverter 3.7kw 3ph), Dayliff High Strength Galvanised Steel Structure 3M High, PV Disconnect Switch, Cabling, Sundries

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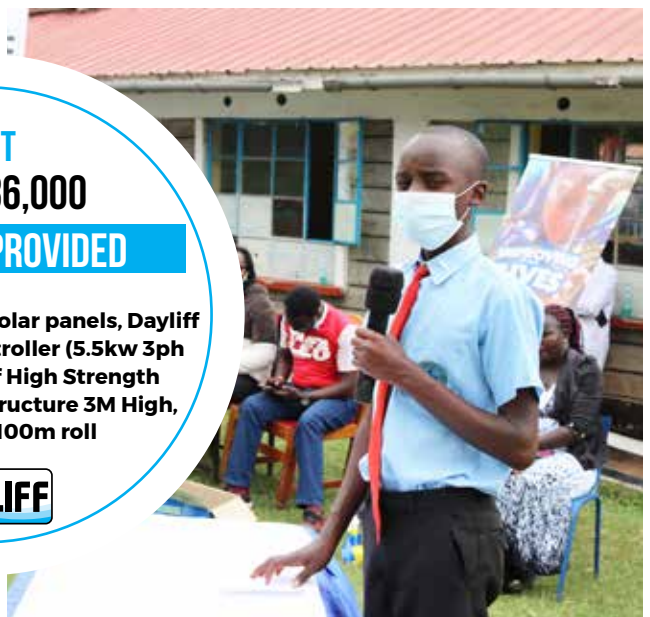
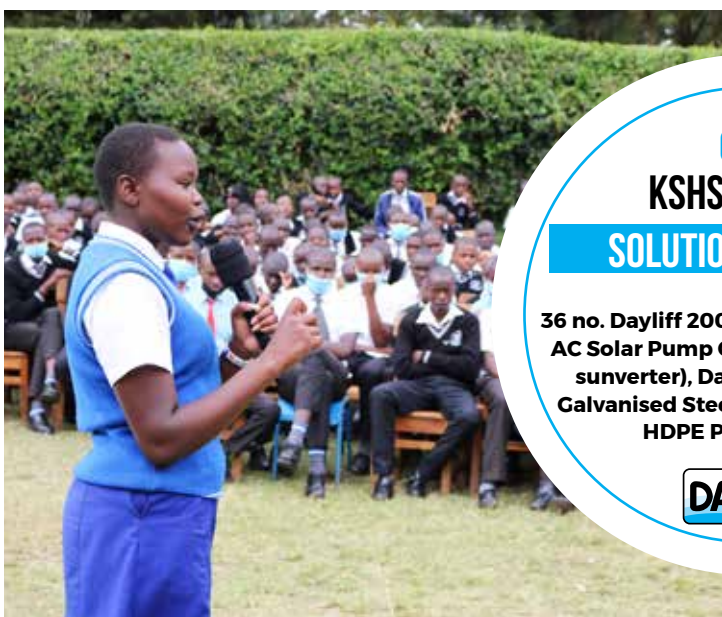
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LORNA LABOSO MEMORIAL GIRLS SECONDARY SCHOOL



Lorna Laboso is a girl's secondary school in Bomet County. The school has an enrollment of 1,000 pupils and is neighbored by Ngariet Boys School which has enrolled 500 pupils. The schools' monthly cost of electricity was KES 50,000 and in addition to this, the power supply to the school is unreliable. Through the D&S #ImprovingLives Initiative, the school's 5.5kW mains-powered borehole pump was converted to solar powered. The completion of this project has not only benefited the two secondary schools, but a neighboring primary school, and the community as well. During the very colorful commissioning ceremony, all three schools and their heads were in attendance. Gratitude was expressed by the school heads and community representatives alike.



COST
KSHS 686,000

SOLUTION PROVIDED

36 no. Dayliff 200w solar panels, Dayliff AC Solar Pump Controller (5.5kw 3ph sunverter), Dayliff High Strength Galvanised Steel Structure 3M High, HDPE Pipe 100m roll

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KSHS 500,000
The schools' monthly cost of electricity



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SunFL



Solar Water Pumping SYSTEMS



SUNFLO-S 150
1m³/day at 30m head



SUNFLO-S 300
3m³/day at 60m head



SUNFLO-A 600H
4m³/day at 70m head



SUNFLO-B 500C
6m³/day at 40m head



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



Ministry of Transport, Infrastructure Housing, Urban Development and Public Works



WISH TO BECOME A PARTNER?

Should you wish to support us, please contact our CSR Office on **0711 079 154**

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



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BRANCHES

KENYA - NAIROBI	KENYA - EASTERN	UGANDA	ZAMBIA
<p>Nairobi - Head Office Tel: (254 20) 696 8000 headoffice@dayliff.com</p> <p>Nairobi - Westlands Tel: (254) 711 079 683/2/7/8/9 wldoffice@dayliff.com</p> <p>Nairobi - Downtown Tel: (254) 715 439 392 downtown@dayliff.com</p> <p>Eastleigh Tel: (254) 711 079 645 eastleigh@dayliff.com</p> <p>Utawala Tel: (254) 780 575 745 utawala@dayliff.com</p> <p>Karen Tel: (254) 726 442 342 karen@dayliff.com</p> <p>Ongata Rongai Tel: (254 20) 240 0146 ongatarongai@dayliff.com</p> <p>Kiambu Tel: (254) 701 646 309 kiambu@dayliff.com</p> <p>Githurai Tel: (254) 758 727 332 githurai@dayliff.com</p>	<p>Muranga Tel: (254) 780 377 682 muranga@dayliff.com</p> <p>Thika Tel: (254) 719 867 504 thika@dayliff.com</p> <p>Kitengela Tel: (254) 705 155 522 kitengela@dayliff.com</p> <p>Machakos Tel: (254) 712 650 283 machakos@dayliff.com</p> <p>Kitui Tel: (254) 701 683 289 kitui@dayliff.com</p> <p>Embu Tel: (254) 780 455 512 embu@dayliff.com</p> <p>Meru Tel: (254 64) 313 1033 meru@dayliff.com</p> <p>Nyeri Tel: (254) 799 496 253 nyeri@dayliff.com</p> <p>Nanyuki Tel: (254 62) 203 0018 nanyuki@dayliff.com</p> <p>Garissa Tel: (254) 715 494 838 garissa@dayliff.com</p> <p>Marsabit Tel: (254) 748 590 140 marsabit@dayliff.com</p> <p>Wajir Tel: (254) 780 523 728 wajir@dayliff.com</p> <p>Isiolo Tel: (254) 717 125 182 isiolo@dayliff.com</p> <p>Hola Tel: (254) 725 333 742 hola@dayliff.com</p> <p>Wote Tel: (254) 716 884 237 wote@dayliff.com</p>	<p>Kampala - Main Office Tel: (256) 783 065 273 UGEnquiries@dayliff.com</p> <p>Kampala - Kitgum House Tel: (256 414) 346 337 kitgum@dayliff.com</p> <p>Kampala - Nakasero Tel: (256 392) 734 633 nakasero@dayliff.com</p> <p>Kampala - Shauri Yako Tel: (256 414) 660 770 shauriyako@dayliff.com</p> <p>Gulu Tel: (256 471) 433 041 gulu@dayliff.com</p> <p>Mbarara Tel: (256 414) 671 617 d&smbarara@dayliff.com</p> <p>Jinja Tel: (256 392) 001 556 jinja@dayliff.com</p>	<p>Lusaka - Main Office Tel: (260 211) 845 010/1 DeptZMSales@dayliff.com</p> <p>Lusaka - ChaChaCha Tel: (260 211) 842 350 chachacha@dayliff.com</p> <p>Ndola Tel: (260 212) 610 936 ndola@dayliff.com</p> <p>Kitwe Tel: (260 212) 221 747 kitwe@dayliff.com</p> <p>Livingstone Tel: (260 213) 320 002 livingstone@dayliff.com</p> <p>Solwezi Tel: (260 218) 821 822 solwezi@dayliff.com</p> <p>Chipata Tel: (260 216) 222 636 chipata@dayliff.com</p>
KENYA - WESTERN	KENYA COAST	TANZANIA	RWANDA
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		DRC	ZIMBABWE
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