



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



UNHCR
The UN Refugee Agency

UNIDO – UNHCR Private Sector Mission to Uganda and Kenya

*Mobilizing private sector solutions
for sustainable livelihoods in the
humanitarian context*

7-18 October 2022





UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



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Organized by UNIDO ITPO Germany

LEVERAGING THE PRIVATE SECTOR IN THE CONTEXT OF HUMANITARIAN ASSISTANCE

About UNIDO ITPO Germany

UNIDO is the specialized agency of the United Nations that promotes industrial development for poverty reduction, inclusive globalization and environmental sustainability. Through its nine Investment and Technology Promotion Offices (ITPOs) worldwide, UNIDO promotes the transfer of technology and investments to developing countries to support sustainable economic development.

The UNIDO ITPO Germany was established in 2017 and is located at the UN Campus in Bonn, Germany.

ITPO Germany supports technology transfer, private sector investments and industrial cooperation with developing countries for sustainable, private sector-led economic development.

Engagement in the humanitarian sector

ITPO Germany particularly promotes the transfer of green and sustainable technologies to developing countries, with a focus on Sub-Saharan Africa. Technologies related to water treatment, decentralized renewable energy, cold storage, recycling and sustainable construction, to name just a few areas, are highly relevant also for fragile and conflict-affected situations and the humanitarian sector. With almost 90 Million forcibly displaced people worldwide, the need and potential for engaging the private sector is huge. By providing private sector players an effective platform to engage with relevant stakeholders in the sector, ITPO Germany ultimately aims at empowering affected refugee and host communities through creating economic opportunities.

At the same time, ITPO Germany aims to highlight the untapped potential and role that the private sector can play in finding innovative and more sustainable solutions for humanitarian operations, for example by bringing in new partners, establishing new financing models or by adopting suitable Models of operation and procurement practices.

Service offer

Working directly with the private sector, ITPO Germany provides:

- Advisory services - scouting and promoting sustainable technologies and projects

- Business match-making – matching partners and investors for impact investment projects e.g. through the ITPO Germany Investment Technology Promotion Platform, ITPP
- Delegate programme – capacity building for public organizations and private sector companies
- Private sector missions – organization of project site visits and study tours

Partnerships

With a large network of highly innovative companies, ITPO Germany seeks to work with partners from the public and private sector to amplify the impact of activities, e.g. by

- partnering with financial institutions and raising awareness about funding opportunities for the private sector in the humanitarian context
- working with international organizations in understanding and tackling the needs of refugee and host communities in the local context
- engaging local private sector organizations for more sustainable and inclusive development outcomes.



Michael Schmidt
Deputy Head



Andreas Schäfer
Investment and
Technology Promotion
Expert



Theresa Rütth
Associate Investment
and Technology
Promotion Expert



Robin Kuranel
Associate Expert



THE PRIVATE SECTOR MISSION

The aim of the private sector mission is to encourage private sector engagement in the humanitarian context, in line with two objectives of the Global Compact on Refugees, namely to (i) ease pressures on host countries and (ii) enhance refugee self-reliance. Through this private sector mission, ITPO Germany aims to enable private sector actors to explore opportunities in refugee-hosting areas in Sub-Saharan Africa.

In line with prior engagement of ITPO Germany in the region and in coordination with UNHCR, two countries were selected for this private sector mission.

About UNHCR

The office of the United Nations High Commissioner for Refugees (UNHCR) was created in 1950 during the aftermath of the Second World War, to help millions of Europeans who had fled or lost their homes. Today, over 70 years later, the organization is still hard at work, protecting and assisting the 89.3 million people around the world, which are forcibly displaced (including 27.1 million refugees). The Global refugee crisis has called for harmonized and stronger collaborations between humanitarian, development and private sector partners in complementary ways that provide longer term and innovative solutions to help both refugees and host communities.

UNHCR's role is to advocate for, convene different stakeholders and foster collaboration between them. To this end, partnerships are being built with financial service providers, development agencies and private sector companies to enhance inclusion and access of refugees to employment, entrepreneurship opportunities and related services and programs.

Uganda¹

Uganda hosts close to 1.5 million refugees and asylum-seekers (as of 31 August 2022), and is the country hosting the most refugees in Africa. The vast majority of refugees (92%) live alongside their Ugandan host communities in village-like settlements within 12 rural refugee-hosting districts while 8% reside in the urban setting of Uganda's capital city, Kampala.

In coordination with the government, UNHCR and partners provide protection and humanitarian assistance in support of government-led efforts towards a comprehensive refugee response that bridges humanitarian, development and private sector investments. Uganda implements the Global Compact on Refugees (GCR) through its Comprehensive Refugee Response Framework (CRRF), emphasizing the inclusion of refugees into national systems, particularly in



Together with its partner UNHCR, UNIDO ITPO Germany is providing a new platform for private sector representatives who offer innovative solutions for the humanitarian context. The joint initiative fosters local economic development and contributes to improved livelihoods for displaced people in Uganda and Kenya.

the education, health and livelihoods sectors. This approach, combined with progressive refugee laws and freedoms (freedom of movement, right to work and own a business, inclusion in access to national social services), provides refugees in Uganda with significant prospects for dignity and self-reliance.

Kenya²

As of 31 December 2021, Kenya hosts over 540,000 refugees and asylum-seekers mainly living in the Dadaab and Kakuma refugee camps as well as urban areas, including the capital, Nairobi. Women and children make up 77% of the refugees and asylum seekers. Kenya has also identified some 18,500 stateless persons in the country.

Despite progress towards comprehensive solutions, new refugee arrivals and new birth registrations have led to a gradual increase in the overall population in the camps. The Covid-19 pandemic also affected the voluntary repatriation programme to Somalia, Ethiopia and Burundi through small-scale repatriation to Somalia and Burundi resumed in 2021.

As requested by the Government of Kenya in 2021, UNHCR developed a six-pillar joint Roadmap for Solutions and continues to advocate and work with the Government to ensure that refugees and asylum-seekers in Kenya have access to both protection and solutions.

Source:

¹ <https://data.unhcr.org/en/documents/details/95618> (accessed Sept. 2022)

² <https://www.unhcr.org/kenya.html> (accessed Sept. 2022)



Uganda, Kampala

	UGANDA		KENYA	
	Kampala	West Nile	Nairobi	Turkana
Africa GreenTec			✗	✗
Agsol			✗	✗
Anywhere Berlin	✗		✗	
BASF East Africa Ltd			✗	✗
BayWa r.e.			✗	✗
(B)energy	✗	✗		
Be-Grow GmbH	✗	✗	✗	✗
BODAWERK	✗		✗	
Boreal Light GmbH			✗	✗
Coolar			✗	✗
DOT Glasses (WSV Global)	✗	✗	✗	
GCS mobile solutions GmbH	✗	✗	✗	✗
IBS Foundation	✗	✗	✗	
Ilara Health			✗	✗
LETZTEST	✗	✗	✗	✗
nOa climate GmbH	✗	✗	✗	✗
oculavis			✗	✗
plasticpreneur	✗	✗	✗	✗
PMFHousing GmbH			✗	✗
RAACH SOLAR GmbH	✗	✗		
Rennhak GmbH	✗	✗	✗	✗
Seawater Solutions			✗	✗
SUNfarming			✗	✗
SustainSolar	✗	✗	✗	✗
WaSH Innovation	✗	✗	✗	✗
W.Giertsen Energy Solutions	✗	✗	✗	✗
WINGCOPTER GmbH	✗	✗	✗	✗



Africa GreenTec AG

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Africa GreenTec is a German social business for renewable energy solutions, which supports off-grid communities in rural Africa to achieve more self-determination and growth. The holistic "ImpactSite" of Africa GreenTec integrates sustainable power production and distribution through intelligent mini-grids with efficient technologies for cooling, water treatment and internet access, enabling enormous productivity gains. To date, Africa GreenTec operates in Mali, Niger, Senegal and Madagascar, providing more than 20,000 customers with solar powered services. Africa GreenTec is about to enter the markets in Uganda and Kenya, including the electrification of 3 UNHCR sites (Uganda: Adjumani, Yumbe, Kenya: Kakuma).



Agsol

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Agsol manufactures cutting edge solar powered agro-processing machines for off-grid farming communities. Our solar mills convert the most important staple foods into edible and higher value food products. By linking productive machines with solar power, off-grid communities have a new tool to improve their agricultural productivity and simultaneously gain access to clean energy services.

The Agsol *MicroMill* is the most efficient, smart and affordable small grain mill ever developed. Purpose designed for solar it can also be powered from grid or an e-bike. Including a custom DC motor and other industry first technology, it is 2.5x more efficient than other electric mills on the market. This efficiency increase is a game-changer and means the MicroMill in solar format is cheaper than a diesel mill and is nearly twice as profitable because of no fuel costs. With one button operation the MicroMill opens the door for anyone non-technical to participate in this important income generating activity.





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“...not just the last mile, but also the first ten...”

We pioneer the distributed manufacturing of electric two wheeler for multi-terrain logistics, beginning with ‘bad boy’ cargo e-bike front loaders, followed by long-tail e-bike taxis for everyday kings and queens, ...and now we have die-hard ebikes to swarm the rural, and to serve the urban.

Conceived when Mad Max slept by Swan Lake, our bikes dance and deliver along the path networks that have criss-crossed our planet since Erectus (from whom we are all descended), began to wander.

It is this ancestral network of Pathologistics that we are re-purposing:

Milk and meat, a pair of goats (or skis) , or sacks and bales or 100 litres of water, or healthcare teams, or getting eight children to kindergarten. The list goes on.

Our Subtraktors go beyond roads, beyond fossil, and then beyond beyond,

...and that’s where you’ll find them...

anywhere.berlin GmbH, Kraaaa!,
Anywhere.Africa,
Anywhere Emobility Solutions Ltd



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At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. Around 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €78.6 billion in 2021. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the U.S.

BASF East Africa Ltd, the regional sales hub for the East African market, was established in Kenya in 2011 and is responsible for 15 countries. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. In Ethiopia, BASF has a Trade Representative Office responsible for the various BASF industry segments. BASF Djibouti FTZE was established in 2022 and has an office in Djibouti City. Continuous innovation and tailor-made solutions ensure our customers achieve greater success.



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BayWa r.e. Solar Projects GmbH is part of BayWa r.e. AG a leading global renewable energy developer, service supplier, distributor, and energy solutions provider. Operating throughout Europe, North America, and Asia-Pacific, and strategically investing in new and emerging markets around the world, among them Kenya, South Africa, Zambia and other African countries. Delivery of end-to-end project solutions involving planning, project development, turnkey construction, and ongoing technical and commercial operations management. We bring innovation, creativity, and the expertise of successfully bringing over 4 GW of renewable energy online, while managing over 10 GW of renewable energy assets for our customers. With full project lifecycle experience, unrivalled technical expertise and global best practice knowhow, we are able to engage diverse and multiple stakeholders from small rural communities to large corporate clients. BayWa r.e. AG's joint shareholders are BayWa AG, a globally successful business, and Energy Infrastructure Partners, a market leader in energy infrastructure investment. BayWa AG deals in the three key segments of agriculture, energy and building materials across the world. BayWa r.e.'s and BayWa AG's combined expertise in renewable energy and agriculture makes us an ideal partner for complex PV projects in challenging environments.



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(B)energy is a Germany-based biogas company, a social business that works with partners on 4 continents to make biogas technology available, affordable, and beneficial. Katrin Puetz founded the company with the aim of making domestic biogas technology independent of development aid. (B)energy has independent branches in a growing number of countries especially in Africa. The biogas technology offered by (B)energy consists of a semi-mobile biogas digester, the biogas backpack and biogas stoves. These systems can be used in small businesses, schools, restaurants, households, and on farms. The unique component is the biogas backpack, which allows biogas producers to sell their excess gas and thus refinance their investment. The waste processed by the system can be used or sold as organic fertilizer. (B)energy offers training programs for distributors, installers, and users. The training provides all the information necessary for using the technology effectively and taking advantage of business opportunities.



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The local partner for climate resistant Agriculture and Tree Plantations.

Be-Grow Boost hydrogels are used in several countries by farmers and plantation owners, primarily to produce more yield. Our technology also helps reduce the cost by reducing fertilizer usage by 20%, the amount of irrigation water by 50% while reducing the risk of yield losses based on water scarcity phases in the year. A growing number of customers worldwide are using Be-Grow Boost as a kind of “seatbelt” in extreme dry years. Further products for gardening complete the Be-Grow portfolio while innovative new product lines will be launched in the next years.

Be-Grow products are available in Uganda and Kenya by local partners using the “Technology from Germany” to support local customers on reducing cost while creating a new level of food security in the country. “With our partners we support the creation of jobs and prosperity e.g. in Kakuma (Kenya) as well as humanitarian work at an orphanage in Uganda. The UN SDGs are significantly influencing how we do business.”



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BODAWERK International Ltd. is a Ugandan social enterprise, developing cutting-edge solutions in the field of Lithium-Ion batteries. We develop electronics, battery designs & battery powered applications with a focus on embedded systems / high power electronics and their IoT-integration. We have developed products and services covering our primary target sectors Energy, Transport and Agriculture. Our technology ecosystem combines energy generation, storage and flexible consumption. This holistic approach allows us to address user needs while the synergies between traditionally unrelated industries, unlocking disruptively resource & energy efficient system designs. We provide the end-user with long term renewable energy autonomy for his/her mobility and farming needs with ‘circular economy inbuilt’.



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Boreal Light GmbH is a Berlin-based company specialized in renewable energy solution for water treatment facilities. The company designs and manufactures affordable solar water desalination systems for off-grid communities around the globe. Systems manufactured by Boreal Light are capable of delivering high quality hygiene drinking, irrigation, fish farm and sanitation water from any kind of high saline and polluted water resources. Powered fully by solar, simplicity of the design and affordability of the cost of the systems manufactured by Boreal Light are the three great competences the company is proud of.



Coolar
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Coolar has developed an off-grid refrigerator that is 100% water-based and runs on heat instead of electricity. Unlike other cooling technologies, the Coolar refrigerator's cooling system operates without hazardous or climate harming chemicals. Especially in warm climatic conditions, the heat energy to drive the adsorption cooling cycle can be drawn from the sun via a simple solar thermal collector. This way, the Coolar off-grid refrigerator can enable the safe and reliable storage of basic medicines and vaccines in remote health facilities with no or unreliable grid connection. Going forward, further sustainable cooling applications such as solutions for mobile or space cooling based on Coolar's technology will be developed. For this, Coolar is open to discuss investment, industrial and commercial partnerships.





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Represented by:
WSVGlobal



Of the 7.5 million Kenyans who need eyecare, only 1.6 million are able to visit an eyecare provider. As a result, more than 75% of cases of vision impairment in the country are preventable (Ministry of Health). This is made worse as even low-quality glasses can cost 2,000 Kshs.

The situation in Uganda is even worse.

For many people without glasses, they are not able to read, learn or work effectively or safely. A child without glasses is 3 times more likely to fall behind at school!

By revolutionizing the design of the eyeglasses and simplifying our lens concept, we're able to provide prescription glasses for \$5. The testing and assembly for each patient is done on-site within 5 minutes, without needing a vision care specialist.

We are looking for potential partnerships to support us in distributing low-cost eyeglasses, eyecare professionals are not essential in the direct distribution. Suitable partners include:

- Health centers
- Pharmacies
- NGOs (in particular those in livelihoods or health)
- Eye clinics with limited services and/or lack of affordable products.



GCS mobile
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The construction of temporary technical infrastructure – especially cooling – has been our business for over 40 years. Since 2017, we are bringing this experience to the humanitarian sector, concentrating on two areas: inflatable cold rooms that are shipped to the areas of operation together with the medicines, and container-based solar-hybrid medicine cooling. With the SUNTAINER, developed according to the building block principle, we not only generate energy for setting up medical stations in areas without a secure energy supply. From mobile pharmacies to integrated drinking water treatment/desalination, irrigation control and machine operation (sewing, sawing, or drilling machines) for local small businesses and craftsmen as well as a local Drone Airport: The SUNTAINER can help communities develop health, water supply and local infrastructure independently and from a single source.



Impact Building Solutions
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IBS Foundation manufactures climate-positive building materials and has designed & built developer offices in Kampala and a factory in Northern Uganda.

We are winners of the 2022 UNHABITAT “Climate Smart City Challenge” and lead organization for the development of a neighbourhood-sized demonstration project in Makindye Ssabagabo, Uganda.

IBS Foundation delivers turnkey projects for a fixed price in a short period of time.

We design and build school-, hospital-, office- and residential buildings through the creation of local value chains and the empowerment of people through training.

Our regional focus is East Africa including Uganda, Kenya, Rwanda and Tanzania.

IBS Foundation projects include shelter-, school- and hospital buildings in West Nile, Kampala and Kakuma.



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Ilara Health is building a network of technology-enabled primary healthcare clinics (PHCs) delivering affordable, quality healthcare to Africa's low to middle income demographics. We do this by financing the deployment of essential equipment and consumables within existing under-equipped clinics across the continent and digitising these facilities through our suite of software tools, the Ilara Health Operating System.

Our model to date has focussed on leasing essential diagnostic tools to PHCs across Kenya to bridge existing diagnostic gaps. We work with point-of-care tools that accurately diagnose and support the management of conditions cared for at the primary care level. This has enabled us to build relationships with hundreds of clinics across more than 30 counties in Kenya. Our interactions with thousands of care providers enabled us to see how PHCs in our network needed more support across their operations to deliver better care to their patients. We have built adjacent business lines to further support clinic partners such as by providing access to capital, affordable and quality medication. This is enabled by our suite of proprietary digital health tools acting as a backbone to digitise our partner clinic's operations.

We have recently launched an initiative called “Powered by Ilara Health” where we deploy a standard set of equipment and systems, coupled with know-how and standard operating procedures within a subset of our best performing clinic partners.



LETZTEST –
water testing solutions

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Represented by:
Aqua Solutions



We make water quality testing easy! As water experts, in regions with limited infrastructure we often had to deal with inappropriate equipment that caused more trouble and frustration than it was worth the money. Seeking better solutions, we developed our own products, which are practical yet highly professional. Our products are

- independent from electricity, extremely robust
- very user-friendly
- easy to transport
- insensitive to errors
- independent from consumables

With LETZTEST, you get not only the best hardware, but also professional training to successfully operate water testing and water testing laboratories in areas with limited infrastructure. We address a wide range of organizations all over the world including

- water supply managers
- governmental laboratories
- NGOs
- private companies
- and laboratory equipment suppliers.

– High-quality photos of project examples, equipment and machines



nOa climate GmbH

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nOa climate GmbH is a Berlin based company that develops and manufactures affordable state-of-the-art micro bioreactors that turn organic wastes into green energy and organic fertilizers for off-grid solutions around the world. Our smallest bioreactors produce around 6kWh of energy per day generally used for tier 4 clean cooking and water heating. Additionally, our bioreactors can be used as clean sanitation solutions by turning human waste into energy. Renewable, simple, affordable.





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oculavis – augmented reality (AR) powered video support for equipment in remote locations. oculavis GmbH is a German based software company that develops the serial award-winning AR video support solution oculavis SHARE. The company was founded as a research spinoff from Fraunhofer Society and RWTH Aachen University in 2016 and has grown to over 75 employees.

The software consists of two modules. The first one is made for remote expert guidance of technicians to personally support them in executing their work tasks from a distance. The second one is made for self-guidance in standard work procedures. The use cases range from providing technical support in customer service, supporting maintenance activities, increasing safety in critical work situations, up to training and qualifying operators on the job.

The software solution does not require any additional hardware. Existing smartphones, tablets or notebooks can be used. For hands-free operations, smart glasses from our hardware partners can additionally be used.

The benefits of oculavis SHARE are faster reaction times in service & maintenance for increased service quality and reduced machine downtimes as well as saving travel time/costs and related CO₂.

We make the knowledge travel!



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We are developing, producing and distributing small-scale plastic recycling machines, moulds, services and products to explore the recycling process, create new products and enable new business and skill development opportunities.

This creates access to simply turn plastic waste into new, valuable products and empowers individuals, communities, businesses, etc. Combined with technical and entrepreneurship training and programs, this offers endless possibilities to create impact on various levels.

The machines are in use in more than 60 countries on 6 continents. Hundreds of thousands of recycled products have been manufactured, thousands of people explored the recycling process, hundreds of income and skill development opportunities were created – and tons of plastic waste brought back into the loop.

Our consulting and project management services complete our 'all in one-offer' to create projects and programs according to local needs.



PMFHousing GmbH

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PMFHousing offers a high quality, affordable modular building system that can be used for accommodation, social buildings as well as for high-quality single-family/multi-family houses, administrative/functional buildings and respective conversions/extensions/additions to existing buildings. We also offer a “light” version suitable for shelters and accommodation for refugees and victims of disasters.

The system was developed jointly with the RWTH Aachen University and industrial partners, mainly BASF and PILE Fabrics.

The modular technology we have developed for roof, wall and floor combines the advantages of a frame construction with a sandwich design by covering wooden frames with 3-D fabric. This fabric is then filled with rigid polyurethane foam. The rigid foam bonds firmly to both the fabric and the wooden frame, resulting in a gap-free, tight and extremely rigid wall.

The technology is now patented and is available for the market. We currently have a manufacturing site in Germany allowing us to manufacture approximately 10.000m² (110.000 ft²) of accommodation per year. Our target is always to have local manufacturing with local partners in the area where the houses are to be built. Within approximately 6 months, we would be able to set up a facility of similar size in Kenya. Approximately 30 employees would be required.



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We are designing photovoltaic power: RAACH SOLAR engineers, procures, delivers, installs and maintains turn-key and tailor-made photovoltaic systems worldwide. RAACH SOLAR is a premium supplier for open area photovoltaic power plants, building integrated photovoltaics (BIPV), carports, battery storage systems, AC mini grids, solar pumping systems, solar streetlights, charging stations and charging concepts for electric vehicles as well as consulting services for renewable energy projects.





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The Rennhak Bäckerei-Technik GmbH specializes in used bakery machinery and equipment from well-known German and European manufacturers. Machinery for dough production, dough processing and professional ovens and much more are checked, cleaned and refurbished according to customer requirements. Machinery in need of repair is transformed into machinery that is technically and visually as good as new. The refurbishment of high-quality used bakery machinery is economical and an important contribution to the sustainable use of resources. Used bakery technology that is „Made in Germany“ enjoys an excellent international reputation, and the robust, older baking technology is particularly popular. We usually offer complete packages with machinery, equipment and accessories for export. In addition to the technology, we often include a basic set of raw materials or special baking and leavening agents. We enthusiastically share our customers' passion for baked goods and work together to develop individual concepts in order to successfully design and deliver bakery projects worldwide.



Seawater Solutions

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Seawater Solutions combines a number of operational models and technical approaches in tandem to deliver measurable livelihood impacts long-term for communities in the orbit of our blue carbon projects. Our solution involves the duality of restoring nature and creating economic opportunities within the same sites.





SUNfarming Africa Holdings

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SUNfarming developed our innovative, award-winning concept to allow the introduction of farming in combination with renewable solar energy production.

We provide higher mounting structures and increased row spacing. We use special glass-modules that let through more sunlight. With this Agri-PV system, we create a suitable microclimate for plant and livestock cultivation. Our design creates a high-yield agricultural production environment – even in conditions that would not usually suit farming purposes.

The PV plant becomes a special kind of greenhouse, suitable for crop and livestock production. We provide cutting-edge crop cultivation using hydroponic drip irrigation that saves water and fertilizer use.

A SUNfarming Agri-PV plant provides much more than just solar energy.



SustainSolar

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Sustainable Solar Systems Pty (Ltd) “Sustain-Solar” is a leading technology integrator of high quality, turn-key containerized solar PV and battery energy storage systems (BESS). Sustain-Solar’s core business is designing, manufacturing, commissioning, and servicing its modular and innovative range of containerized systems suitable for various applications such as off-grid, mini-grids, rapid deployment, and energy storage (e.g. back-up, self-consumption optimization, etc.). Our systems are designed to integrate with various technologies such as water pumping, water treatment, refrigeration, drying, thus providing complete solutions to match our clients’ needs.

To date, SustainSolar has deployed equipment to 15 privately owned sites across Africa providing 300+ connections on average per site. Our systems are made of world-class components, and manufactured in Cape Town – a leading logistics hub with global shipping lines and excellent road networks into the sub-Saharan region.





WaSH Innovation

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WaSH Innovation provides portable water-saving devices for personal hygiene. We dedicate our kits to everyone who has or may have a problem with access to running water for personal hygiene purposes caused by external factors such as natural disasters, military operations, or other similar causes. Our products – Pocket Bath, Pocket Sink, and Pocket Shattaf – are new solutions tested in a real environment, with a demonstrated potential for adaptability and scalability under different humanitarian aid settings and responding to the needs of those in the most vulnerable situation. Our devices are lightweight, easy to transport, quick to install, convenient to use, water-saving, and offer the possibility of contactless hand washing in almost all conditions. The quality and sustainability of our products are based on the application of advanced technologies, including the technological components, affordability, and improved cost-effectiveness for beneficiaries and organizations responding to the crisis. We plan to start production locally in Africa to reduce production costs and allow the mass use of our devices.



W.Giertsen Energy Solutions
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Our Vision: To enrich and enhance the lives of the people and communities in which we operate by providing the highest quality solar-powered solutions. We want to be the long-term partner of choice for humanitarian organizations and private businesses.

Our Expertise: W. Giertsen Energy Solutions acts as system integrator and long-term solar energy lifecycle partner. Specialized in the design, engineering and execution of application-specific solutions, we gear projects toward the safe, efficient and reliable operation, reducing long-term energy cost and environmental impact.

Our Solutions: Our highly specialized and proven solutions are flexible for a variety of solar-enabled applications and market segments for humanitarian and private sectors in different geographies. Further, we offer digital platforms and software solutions, such as monitoring and energy payment solutions. This is complemented by a suite of project lifecycle services from pre-sales system design and engineering services to project management and logistics to installation and commissioning and after-sales support. In addition, we support our clients with training and project finance-facilitation.





WINGCOPTER

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Wingcopter is a German delivery drone manufacturer and drone delivery service provider focused on optimizing medical supply chains and last-mile logistics of packages, tools, spare parts, food and groceries.

The 130-member team is dedicated to improving and saving lives worldwide through meaningful commercial and humanitarian applications.

Thanks to its patented tilt-rotor mechanism, Wingcopter 198 can take off and land vertically like a multicopter, without the need for additional infrastructure. It flies long distances as efficiently and quickly as a fixed-wing aircraft, even in rain and wind. It can carry a payload of 5 kg over a range of 75 km. Therefore the Wingcopter 198 is the ideal delivery drone for transporting urgently needed goods in hard-to-reach areas, including medical products such as laboratory samples and vaccines that require a cold chain.

Wingcopter has many years of operational experience with numerous drone projects on five continents, including daily operations in Malawi, and is recognized as a Technology Pioneer by the World Economic Forum.

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