



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



UNIDO ITPO GERMANY PAVILION PRIVATE SECTOR INNOVATIONS FOR THE HUMANITARIAN SECTOR

DIHAD Dubai, 13-15 March 2023



Organization:

**United Nations Industrial Development Organization (UNIDO)
Investment and Technology Promotion Office (ITPO) Germany**

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معرض و مؤتمر ديج الدولج للإغاثة و التطوير
Dubai International Humanitarian Aid & Development Conference & Exhibition

UNIDO is the specialized agency of the United Nations that promotes industrial development for poverty reduction, inclusive globalization and environmental sustainability. Through its Investment and Technology Promotion Offices (ITPOs), UNIDO supports the transfer of sustainable technologies and investments towards developing countries. UNIDO ITPO Germany was established in 2017 and is located at the UN Campus in Bonn, Germany. The participation in DIHAD 2023 is part of a broader strategic initiative by ITPO Germany to support innovations and technology transfer into fragile and conflict-affected situations (FCS) and the humanitarian sector in particular. With over 100 million forcibly displaced people worldwide in 2022 (UNHCR), the need and potential for engaging the private sector is huge. By providing private sector players with an effective platform to engage with other UN-Agencies and other relevant stakeholders, ITPO Germany ultimately aims at empowering affected refugee and host communities through creating economic opportunities. At the same time, the initiative highlights the untapped potential and role that the private sector can play in finding innovative and more sustainable solutions for humanitarian operations themselves, for example, by bringing in new partners, establishing new financing models or by adopting suitable modes of operation and procurement practices.



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In 2022, ITPO Germany participated for the first time in DIHAD to prepare for a private sector mission to refugee camps in Uganda and Kenya, jointly implemented with UNHCR in October 2022. Through this engagement, various partnerships could be established which led to the realization of several projects in the refugee camps. This brochure introduces the 7 companies participating in the UNIDO ITPO Germany Pavilion at DIHAD 2023. The co-exhibitors are mainly active in the energy sector or closely related areas such as solar cooling, as energy is the focus sector of DIHAD 2023.

ACTIVITIES AT DIHAD

Highlights of the ITPO Germany Delegation to DIHAD include:

- Workshop with private sector companies and other institutions jointly organized and implemented with DHL Humanitarian Logistics
- Exhibition and B2B meetings with 7 companies at UNIDO ITPO Germany Pavilion E15
- Innovation Workshop with the UNIDO Representative in Iran and innovative companies: Fostering sustainable development in humanitarian settings: How can private sector innovations for energy and cooling play a role?
- Further meetings with companies / organizations in the region

ACTIVITIES BEYOND DIHAD

This year's participation in DIHAD is a further milestone for ITPO Germany, its co-exhibitors and other interested companies engaging in the humanitarian sector. ITPO Germany also launched its online Investment Technology Promotion Portal (ITPP) at the end of 2022, which provides the opportunity for companies to present their solutions and projects to potential partners, other UN agencies and aid organizations to foster partnerships with other companies and financing partners.



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Asantys Systems is a German 360° service provider for solar projects. As an EPC and system integrator we provide turnkey solutions and act as a one-stop shop for all kinds of solar projects like mini-grids, containers for emergency situations, health clinics, water purification systems, pumping, C&I, diesel-PV hybrid systems, telecom, etc. Along with offering solar energy, we also collaborate with Productive Use of Renewable Energy partners, local communities and NGOs in order to integrate the PURE applications with solar-powered minigrids and provide the community with a holistic solution. We aim to help providing better health services, transportation of safe drinking water and education knowing they play a significant role in the socioeconomic development of the rural areas. With more than 13 years experience in project implementation in developing countries, we can meet our clients' specific needs and ensure that they receive all required services from one experienced partner only.



Since 1899 BAE stands synonym for proven reliability in the market for industrial lead batteries. Nowadays, the core business is the production of reliable and sales of premium and sustainable lead batteries for stationary and renewable energy applications. BAE excels in its customer orientation and highest quality „Made in Germany“ is our hallmark. Outstanding quality, highest reliability and sustainability are the core elements of the long-lasting proven success of our premium products and company philosophy.

BAE SECURA SOLAR – BATTERIES

BAE solar batteries are used in renewable energy applications such as photovoltaic power generation. They are used in hybrid applications as well as in stand-alone photovoltaic systems, which include a very wide range of sizes and application fields. So BAE solar batteries have been proven in industrial energy systems even under extreme conditions as well as in private households, e.g. to increase the content of self consumed solar PV energy.



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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.



The construction of temporary technical infrastructure – especially cooling – has been our business for over 40 years. Since 2017, we have been bringing this experience to the humanitarian sector and 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.



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Founded in 1986, KTI – Plersch Kältetechnik GmbH is a family-run company based in Balzheim, Southern Germany. As the inventor of the first containerized turnkey refrigeration plants, KTI has so far supplied and installed more than 4,000 such plants worldwide. Across all industries, we are the leading refrigeration specialist when it comes to reliability and quality in refrigeration under extreme conditions. We are specialists in the manufacturing of containerized solutions that find their application in various industries. Our latest developments focus on the application of nature-friendly materials, the reduction of emissions and costs. We strive to boost sustainability. The development of a 100% future-proof ultra-low temperature storage container for vaccines and other medical substances is our latest achievement. The prevention of post-harvest losses is on our agenda since we have released the concept following the Containerized Cold Chain solutions.

Off-Grid Europe GmbH (OGE) is a German business, specialized in renewable energy technology for power generation and storage solutions (e.g. Mini-Grids). The company works on the whole spectrum, from providing customized planning and systems design to the installation and maintenance of the systems. Since 2020, OGE is part of the project ASER300 (Agence Sénégalaise d'Électrification Rurale, GAUFF Engineering, KfW) that set the target to electrify at least 300 villages in Senegal. In the course of realizing the project, OGE set up the Senegalese subsidiary Off-Grid Africa in order to establish itself long-term in the West African market.



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SOLAR23 with headquarters in Ulm / Germany, is a leading provider of complete solar power solutions and a globally active company with partners worldwide. As a turnkey solution provider with over 20 years' experience, we can proudly look back on our success stories and established reputation as a reliable partner and specialist within the solar power industry. In order to solve the challenges of today's world you need tailormade, high quality solutions focusing on efficiency & sustainability.

As a pioneer in terms of design technology, sales, installation and development of eco-friendly photovoltaic systems. SOLAR23 specializes in: rural electrification, solar street lighting, grid and off-grid connected photovoltaic systems, power supply for telecommunications, solar water pumping, village power supply, health facility and hospital power solutions, solar water heating, solar refrigeration, vaccine and medical refrigeration.



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UNIDO INVESTMENT AND TECHNOLOGY PROMOTION OFFICE GERMANY

Innovative technologies, projects and
 financing solutions



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 ITPO Germany Website



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 Investment and Technology Promotion Platform



Driving sustainable industrial development
 in emerging markets



Renewable Energy



Environmental Technologies



Agribusiness



Health & Sanitation



Manufacturing



Infrastructure &
 Affordable Housing



Energy Efficiency



Natural Resources & Mining



Mobility



Humanitarian Sector



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