



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



UNIDO ITPO Germany IFAT 2022

*Environmental Technologies
for Emerging Markets*

IFAT, MUNICH 30 MAY–3 JUNE 2022

World's Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



INVESTMENT AND TECHNOLOGY
PROMOTION OFFICE
BONN, GERMANY

UNIDO ITPO Germany IFAT 2022

*Environmental Technologies
for Emerging Markets*

IFAT, MUNICH 30 MAY–3 JUNE 2022

Organization:

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

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Festo Didactic SE, LEITZTEST, Port Energy Logistic, UST Umwelt-Systemtechnik, Senior Experten Service (SES) – Foundation of German Industry for International Cooperation, Off-Grid Water Alliance





» IFAT Munich and its global platform events in important emerging markets such as India, South Africa and China address issues that are critical to the UN's 2030 Agenda and UNIDO in particular.

Dear Ladies and Gentlemen,

It is my pleasure to welcome you on behalf of UNIDO to IFAT 2022!

UNIDO, the specialized agency of the United Nations for inclusive and sustainable industrial development, is participating in IFAT Munich through its Investment and Technology Promotion Office Germany. We have mobilized innovative companies for our stand, a diverse delegation from the water and waste management sectors from several African countries and our events showcase the exciting business opportunities in African markets. We hope to facilitate successful matchmaking.

IFAT Munich and its global platform events in important emerging markets such as India, South Africa and China address issues that are critical to the UN's 2030 Agenda and UNIDO in particular. UNIDO promotes green and resource efficient industrial production. Innovation fuels the positive changes the whole world needs. We recognize the need to apply circular economy approaches linking production and modern recycling technologies and the use of waste streams to secure a sustainable supply of energy and water for production processes.

IFAT, and the over 3.000 exhibitors and technology leaders present here, offer solutions for the world's most pressing challenges: hunger, climate change and resource shortages.

IFAT also reflects a broader trend in which environmental technologies are becoming an integral part of industrial development: responsible industrial management, new approaches for storing and re-using resources, such as green hydrogen and chemical recycling, or reducing the impact of hazardous waste. These are an integral part of any modern industrial development strategy. IFAT is opening up to industry, a trend that we at UNIDO applaud and support.

I wish all participants a successful IFAT 2022 and look forward to deepening our cooperation in the coming years!

With best wishes for sustainable success,

Dr. Gerd Müller

Director General of the United Nations Industrial Development Organization (UNIDO)



» Environmental technologies, and especially water and (industrial) waste management, are priority sectors of ITPO Germany.

Dear IFAT-Participants,

As Head of the UNIDO Investment and Technology Promotion Office (ITPO) Germany I would also like to warmly welcome you to IFAT 2022!

Through its Investment and Technology Promotion Offices, UNIDO promotes the transfer of technology and investments to developing countries to support sustainable industrial development.

UNIDO ITPO Germany is located at the UN Campus in Bonn. The office supports German and European technology providers and investors to find potential partners in developing countries.

Environmental technologies, and especially water and (industrial) waste management, are priority sectors of ITPO Germany. Our activities at IFAT 2022 will promote the transfer of innovative and sustainable technologies from Europe to developing countries and aim to take up business opportunities in these rising markets, especially in Africa.

With this brochure we would like to introduce to you our office as well as our National Advisors in Africa and give you an overview about the following activities of UNIDO ITPO Germany at IFAT and beyond:

- The Delegate Programme: high-level delegations from selected developing countries organized by UNIDO ITPO Germany and its partners

(11 Delegates from the water and waste sector coming from 8 different countries)

- The two events at the Innovation Stage at IFAT on 30 and 31 May, which UNIDO ITPO Germany organized with its co-exhibitors and partners. These events are highlighting trending topics like the Circular Economy & Resource Efficiency as well as the Future of Water – access and quality
- The networking event 'Africa meets IFAT', co-organized with VDMA and other partners, which will take place in the evening of the second day of IFAT (31 May)
- The joint project between AHK Italy / German Federal Ministry for Economic Affairs and Climate Action (BMWK) and UNIDO ITPO Germany bringing Procurement Agents from relevant UN Agencies to IFAT
- The Exhibition and B2B Meetings with different companies at UNIDO booth B4/118

More details on these activities can be found in this brochure. Please do not hesitate to reach out to us for further information.

I wish you all an engaging and successful stay at IFAT!

Prof. Dr. Rolf Steltemeier

Head of UNIDO ITPO Germany



FESTO

Festo Didactic SE

Dr. Nader Imani

Executive Vice President
Global Education

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Water is an essential element in most areas of human life. It is available as tap or process water and is also used to generate electricity. Water management systems are complex and require a great deal of vigilance, as the applications have far-reaching effects on people as well as on the environment.

We are the world-leading equipment and solution provider for technical education. We design and implement learning laboratories, educational equipment and programs that train people to perform in highly dynamic and complex industrial environments. We are aiming to work on technical and vocational education and training with focus on employability, i.e. basic education of students in secondary, vocational schools, and universities as well as productivity, i.e. qualification of workforce in industries to contribute to the competitiveness of manufacturing industries.

In the water sector our EDS® Water Management system includes practical exercises and experiments that enable the analysis of the individual processes in the water cycle and illustrate how changes in one area affect the entire system. Water technology will be offered as an official skill for the second time at the Worldskills 2022.



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.



LETZTEST

LETZTEST

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CEO

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Port Energy Logistic

Commodore Georg Dieter Fehner, Senator h.c.

Member of the Executive Board
Director of the development department

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Port Energy Logistic was founded in Hamburg in 2008 for maritime environmental protection. Disposal services for seagoing vessels are offered in accordance with the MARPOL agreement in German ports.

Port Energy Logistic has developed the MARPOL SHIP 3,000– 6,500 DWT, a disposal and recycling vessel that disposes of waste from seagoing vessels and recycles it on board.

Port Energy Logistic has also developed the Ocean Waste Recycling Ship. This special ship cleans the seas of rough plastic waste and micro plastics. The special ship has:

- Length: 350 m
- Width: 60 m
- Deadweight: 350,000 t (Carrying capacity)



UST Umwelt-Systemtechnik

Thomas Neumann
Managing Director

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UST is an innovative firm established in 1991 in Gera/ Thuringia.

Since 2004 we are dedicated to the design and production of water disinfection systems. For this our systems generate electromagnetic waves in the spectrum of ultraviolet light (UV).

UV is a physical method to disinfect water, eliminating safely microorganism such as bacteria, viruses and algae. The process only takes fractions of a second and does not require the addition of chemical toxin. It is therefore safe, environmentally friendly and offers a solution at low cost.

The portfolio of UST comprises 2 brands: PURE WATER for private appliance and ULTRA V for industrial use. The models have capacities ranging from 5 l/min to 100m³/h.

The solutions provided by PURE WATER and ULTRA V deliver best results for the disinfection of drinking water | water of swimming pools and ponds | industrial process water | water of cooling circuits | waste water





Senior Experten Service (SES) –
Foundation of German Industry
for International Cooperation

Dr. Michael Blank
Executive Director

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Senior Experten Service (SES) – the Foundation of German Industry for International Cooperation – is the largest German volunteer placement organisation for skilled and management professionals. It is a non-profit organisation providing help for self-help since 1983, mainly in developing countries, but also within Germany.

SES is supported by the main associations representing German business: the Federation of German Industry (BDI), the Confederation of German Employers' Associations (BDA), the Association of Chambers of Industry and Commerce (DIHK) and the German Confederation of Skilled Crafts (ZDH). The activities of SES abroad are funded by the German Federal Ministry for Economic Cooperation and Development (BMZ). Projects in Germany are supported by the German Federal Ministry of Education and Research (BMBF).



Off-Grid Water Alliance

Dr. Hamed Beheshti
Founder

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Off-Grid Water Alliance (OGWA) as a globally acting business entity, showcases, supports and promotes solutions tackling water access challenges for rural and poor-urban communities.

The alliance creates the basis of introducing the technology basket to the communities in need, as well as policy makers, and developers.

Through recognizing the needs, OGWA builds synergies between the members and businesses addressing the growing global water challenges in off-grid parts of the planet. By introducing the best practices, OGWA shed light on the most challenges the sector is struggling with, among them, new finance mechanisms, regulations, tax, monitoring etc.



ADVISORY PROGRAMME

Through its Advisory Programme, ITPO Germany provides services to the private sector and governments on industry-related issues by assigning local advisors in target markets. The advisors provide potential investors and technology providers from Germany with the latest information and advice on the local investment environment to facilitate technology transfer and business matchmaking.

Advisors assist with a variety of services required for doing business, such as information on how to operationalize business strategies and policies in local environments and introduction to partners in the public and private sector. They arrange and accompany business meetings, facilitate delegate missions from national representatives to Germany and provide follow-up services, thereby accelerating industrial development in the respective target market. Advisors from Côte d'Ivoire, Nigeria and Sudan attend IFAT to meet with German companies and to explore opportunities for investment and technology transfer.



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DELEGATE PROGRAMME

The Delegate Programme is one of ITPO Germany's flagship activities. Once or twice per year, selected decision-makers from Africa's public and private sector have the opportunity to present investment opportunities to German and European partners and to establish a long-term cooperation with technology providers. Because of the importance of environmental technologies for an inclusive and sustainable industrial development in Africa, the 2022 Delegate Programme will be centered around IFAT Munich.

For IFAT, ITPO Germany has selected 11 delegates from 8 countries across sub-Saharan Africa, both from the water and the waste sector. Delegates attend IFAT to present concrete projects for building a resilient infrastructure and for establishing a circular economy. Their interests include, among others, the handling of electronic waste, recycling of tires and of municipal waste, the digitalization of drinking water production and wastewater treatment, as well as sustainable solutions for wastewater pumps in hilly terrains.

Meetings with one or several delegates can be arranged through ITPO Germany (Andreas Schäfer, a.schaefer@unido.org, mob +49(0)-151-73037255).

DELEGATES IN THE WATER SECTOR



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TUESDAY, 31 MAY, 17:00 H
IFAT INNOVATION STAGE

Skills innovation and peer-to-peer partnerships in the water and sanitation sector

THE FUTURE OF WATER – ACCESS AND QUALITY

International peer-to-peer partnerships for innovative solutions in water technology, bigger achievements for the education in the water sector

New partnership models have shown the efficiency of working together to achieve a common goal. Partnership does not only mean jointly financing a project, but it also means sharing knowledge, ideas and innovative solutions, development of new skills, elaborate different profiles and best practices, get together, and discuss new ways forward. By sharing visions in a spirit of partnership, we will be able to achieve goals, which cannot be achieved by someone or some company alone. Companies and institutions like Festo Didactic and GWOPA/UN-Habitat have large experience to support cooperation frameworks and partnerships between water utilities and will share their experiences.

SPEAKERS:

Mr. Dr. Nader Imani, *Festo Didactic SE*
Ms. Julie Perkins, *GWOPA/UN-Habitat*

MODERATOR

Vanessa Voelkel, *UNIDO ITPO Germany*



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DELEGATES IN THE WASTE SECTOR



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Manyous Wassef
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**MONDAY, 30 MAY, 16:30 H
IFAT INNOVATION STAGE**

Only winners! The business case for EPR and plastic recycling in Africa

CIRCULAR ECONOMY & RESOURCE EFFICIENCY

How new financing models can boost the circular economy in Africa

Modern recycling technologies can help create jobs and save resources in many parts of Africa. However, lack of funding often prevents the collection and separation of waste. New concepts like extended producer responsibility (EPR) or plastic credits change the economics of waste collection. Participants of this presentation learn about the pros and cons of these concepts as well as the opportunities they bring for investors, brands, governments and technology providers. Two case

studies from Nigeria and Zambia show how waste generators can improve the value of their brands and how sustainable waste management systems can be built from scratch.

SPEAKERS:

Mwansa Matokwani, Maluwa Foundation, Zambia
Vy Nguyen, TU Darmstadt
Ibukun Faluyi, E-waste Producer Responsibility Organisation Nigeria

MODERATOR:

Andreas Schaefer, UNIDO ITPO Germany

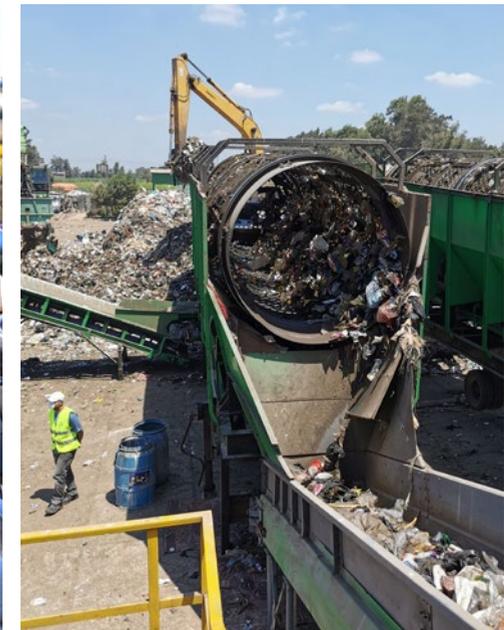
PARTICIPANTS FROM PARTNER ORGANIZATIONS



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© plasticpreneur



Networking Event

AFRICA MEETS IFAT

**TUESDAY
31 MAY 2022
AT 17:30 H**

**VDMA SPECIAL AREA PLASTICS
RECYCLING PROCESS HALL B5,
205/304, IFAT MUNICH**



© OSUMARE BEATS

**THE EVENING WILL BE
ACCOMPANIED BY AFRICAN
TUNES FROM "OSUMARE"**

Whether it is about waste management, circular economy, water treatment or natural resource management – the African continent provides lots of opportunities for technology providers in various sectors. At IFAT 2022 in Munich, UNIDO ITPO Germany and VDMA Mechanical and Plant Engineering Association are cordially inviting all interested stakeholders to join the “Africa meets IFAT” networking event, to connect with key partners from various African countries and promote technology transfer to and industrial cooperation with Africa.

The event will take place in the VDMA Special Area “Plastics Recycling Process”, which presents waste treatment and recycling technology solutions for recycling post-consumer plastic waste into new plastic material. Drinks and snacks will be provided.

Organized by:



Join us and become part of a network to promote sustainable technologies from Germany to Africa!



Supported by:



Lined area for taking notes during the event.



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