

CIRCULAR ECONOMY
TAIWAN



TAIWAN INT'L
WATER WEEK



CIRCULAR ECONOMY
TAIWAN



Show Preview

RIDE
THE WAVE OF
SUSTAINABILITY

Sep. 24-26, 2020

 **TWTC HALL1**



Welcome Letter

RIDE THE WAVE OF SUSTAINABILITY

Dear Visitor,

On behalf of the Taiwan External Trade Development Council (TAITRA), I would like to extend my warmest welcome to you. I'm very grateful to you for taking time off from your busy schedule to attend the Taiwan International Water Week (TIWW 2020) and the Circular Economy Taiwan (CE Taiwan 2020).

Based on the theme of reclaimed water treatment and green industry procurement, TIWW X CE Taiwan 2020, Taiwan's one and only water and green industry trade show, will be focusing on the sustainability of water resources. The TIWW will showcase a number of turn-key projects for reclaimed water and treatment, plant equipment applications and innovative technologies, while the CE Taiwan is committed to maximizing the effectiveness of resource optimization. This is a platform which is enriched by industries, governments and academia to converge, establish, and connect trade opportunities under one roof.

The good news is, Taiwan government has implemented a resource recycling system with the enactment of the Waste Disposal Act and Resource Recycling Act with an eight-year (2017-2025) budget up to US\$8.1 billion to reinforce water infrastructure on the island.

The highlights of the trade show include:

- Renewable water resources
- Smart water application and technology
- Green and Eco technology
- "Water Culture in New Era" - International Forum 2020 organized by the Water Resources Agency, MOEA

Apart from the initiatives, a series of events, including Water Culture in New Era - International Forum 2020 hosted by the WRA of MOEA, government procurement meetings, one-on-one procurement meetings, and hot product launches, will be also held to attract more attendees.

I wish you a most fruitful stay with TIWW X CE Taiwan. Let's envision a promising future of the global water and green industry.

Sincerely yours,



Emilia Shih
Executive Director, Exhibition Department
Taiwan External Trade Development Council (TAITRA)

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About TIWW X CE Taiwan 2020

Exhibit Areas

- 💧 Reclaimed Water & Treatment
- 💧 Transport & Storage
- 💧 Green Infrastructure
- 💧 Water Purification Equipment & Drinking Water
- 💧 Process Control Technology & Process Automation
- 💧 Public Sector & Related Services
- 🔄 Eco Tech
- 🔄 New Business Model

Show Dates and Hours

September 24-25 (Thur / Fri) 9:30-17:30

September 26 (Sat) 9:30-17:00

Venue

Taipei World Trade Center (TWTC) Exhibition Hall I



For registration, visitors may click "Visitor registration" on the official website. Go to the pre-registration desk to exchange admission badges with one business card upon arrival at the exhibition hall.

*Children under 12 years old age may not be admitted to the showground.

*For everyone's safety, temperature checking and face mask wearing are required.

Why Participate?

✓ A Gateway to Asian market

Located at the heart of the Asia-Pacific region, Taiwan is known for its unique industry clusters and impressive product quality.

✓ In conjunction with "Water Culture in New Era" - International Forum 2020

An international forum is organized by the Water Resources Agency, Ministry of Economic Affairs, the one and only national water agency in Taiwan. The International Forum 2020 with the title of "Water Culture in New Era" will discuss the pathways to reshape our water plans with the strength of culture. Assuredly, more phenomenal cooperation opportunities between governments, enterprises, and research institutes will be established through the sharing and discussions in disciplines of "Culture", "Environment", "Industry" and "Cities".

✓ Potential Trade Opportunities

TAITRA will host one-on-one procurement meetings and the Government Procurement Meetings of Water Resources to help promote substantial business opportunities among water professionals.

✓ TIWW X CE Taiwan ON AIR NEW

In response to the COVID-19 outbreak, TAITRA aims to ensure that the promotion of the event remains unaffected. A series of online and offline videos about the latest information will be posted on the social media (Facebook, YouTube, etc). Stay tuned to explore more!

Reclaimed Water & Treatment

UNITECH ENGINEERING CORP

Booth No. A0527

www.unitechwwt.com

Company Profile

UNITECH ENGINEERING CORP. was established in Taipei since 1983. We focus on solving all types of industrial wastewater. Featuring turnkey solution, technical consultant, process planning, and application of equipment. We serve clients in the display panel, semiconductor, solar-cell manufacturing, and electro-deposition industries. We offer optimal cost-effective project, highest quality of construction, and best service to fulfill the requirement of customers. Enterprise profits from environmental protection by resource recycling.

Product Description

MBR SYSTEM

- The term 'membrane bioreactor' (MBR) is generally used to define wastewater treatment processes which integrate a-selective membrane e.g. microfiltration or ultrafiltration with a biological process to allow the process to function as desired.
- MBR processes can be operated at higher mixed liquor suspended solids (MLSS) concentrations and the sludge solids are completely retained in the bioreactor, thus reducing the reactor volume to achieve the same loading rate.
- Unitech's customized MBR Wastewater Package Systems offer long-lasting strength in a compact, built-to-specifications design.
- The system is possible combines a Programming logical Controller (PLC) to provide superior effluent quality while reducing the time and costs required for plant construction.



Industrial Technology Research Institute

Booth No. A0328

www.itriwater.org.tw

Company Profile

"Water Technology Research Division", under Material and Chemical Research Laboratories of ITRI, has devoted many decades to cultivating and building strength in the field of water and wastewater treatment. We have served the wide range of industries, Including the electronics industry, flat panel industry, solar cell industry and LED industry. In addition to those high-tech companies, we're also working with partners in industries of petrochemical, steel making, Chemical, Textile/fiber, Food related, Pulp and paper, etc. Upon request we can provide the total solutions including feasibility study, treatability study, system design, installation of facilities, as well as the consultation for the management of water treatment system.

Product Description

Qwater

- Qwater is designed as a mobile and quick installation of drinking and process water supply for community, business or factories.
- Qwater can serve as a disaster-relief unit for emergency water supply in remote communities or disaster-stricken areas.



Chuan Yi Electric Machinery Works Co., Ltd.

Booth No. A0334

www.cht.cpem.com.tw

Company Profile

CHUAN YI PUMPS was established in 1982. We always target to strengthen our design and produce ability to provide a better services and high-tech products to our customers. Through a constant, steady growth, CHUAN YI has amassed the capability to integrate a diverse product line, coupled with the entire staffs' united efforts, has enabled CHUAN YI to gain a significant market share and became a leading enterprise.

Product Description

Auto Prime Engine Pumps

- Self-priming pumps have a special design vacuum system that can detect water automatically, when there is no water, the special design chamber can separate water and air and will fill water in few minutes automatically.
- The self-prime engine pump has clean hole for cleaning sediment.
- Advanced control systems have warning and protective functions for your option.
- The patent aluminum-made quick connection joint is easy to operate and light weight. The rubber pipe can match the connecting joint firmly and closely.



Trendtop scientific corp

Booth No. A0330

www.trendtop.com.tw

Product Description

Water Quality Analyzer

- HORIBA manufactures and markets peripheral water quality measuring and analysis devices since 1945 Horiba listened closely to each of our customers' comments, and applied what we heard to our next generation analyzer.
- Color Touch Panel PH/COND/ION meter
- Handheld PH/COND/ION/DO meter
- Pocket PH/COND/Salt/Na+ /k+ /Ca2+ /No3-meter

Industrial Water Quality Measuring Instruments

- HORIBA is an industry leader in providing total Solution for protecting the environment, and industrial processing analysis company.
- Improved single-touch calibration for greater ease of use.
- New PH electrode lineup

Oil Content Analyzer/ Flocculator

- Oil content analyzer to measure concentration of oil contained in drainage and environment water. Test the efficiency of flocculation or precipitation agents
- Easy and speed measurement for approx 3min.
- Any oil with low boiling point can be measured
- Color graphic liquid crystal, USB data out put



Transport & Storage

XIANGSHENG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD.

Booth No. A0319

www.yonghopumps.com

Company Profile

XIANGSHENG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD. was founded in 1976 and YongHo Pumps was established to be the brand of products. Adhering to the concept of quality, reigns supreme, quality and reputation are well known in the field of Taiwan. In initial stage of founding, the main business is the maintenance and manufacture of submersible centrifugal pumps. In 2007, in addition to investing in flood control, devoting to the design and development of flood control pumps. In 2017, YongHo Pumps expanded business to include the IoT research. We will be devoted to improving the sensor and the remote monitoring system for making our pumps be more reliable and reduce the labor cost when operating. Through plenty data analyses, laying a good foundation for AI development in the future.

Product Description

Self-Priming Pump

- The self-priming pump can be equipped with diesel engine or motor for drainage moreover it will be convenient and efficient to operate in outdoor that at the first-filled time the vacuum system can be substituted for manual labor.
- The newly designed bearing system makes the pump modular, which can match different deceleration methods, and is closer to the user's requirements.
- Using IoT to build up the connection among the hardware-sided, the network-sided, and the application-sided. It makes operators easily to know the operating condition of unites.



AJEI International CO.,LTD.

Booth No. A0319

www.ajei.org.tw

Company Profile

AJEI International Co.,Ltd. is specialized in stainless steel and special material stock and trading. To meet the demands from customers, AJEI International Co., Ltd. Imports top quality materials, such as duplex stainless steels, super austenitic stainless steel, Nickel Alloys and a variety of special alloys (Super Alloys) from Europe, the United States and Japan. Over the years, we've been the most professional and dependable business partner for customers; also accumulating good reputation and trust of customers. We also can provide professional suggestions to our customers.

Product Description

DUPLIX STAINLESS STEEL PIPE

- AJEI stocks lots of duplex (S32205) and super duplex (S32750) stainless steel pipes. Size is from 0.5" to 12". We can provide cut to length pipes. All pipes are from European, USA, and Japan.
- Duplex stainless steel combines the advantages of ferrite and austenite. It has good corrosion resistance, low thermal expansion, high strength, high resistance to stress corrosion.
- Duplex stainless steel is always applied in sea water, water treatment, seawater desalination, marine and wind power generation because of its excellent corrosion resistance.



Green Infrastructure

WaveGIS Technology Co., Ltd.

Booth No. A0523

www.wavegis.com.tw

Company Profile

Founded in 2004, WaveGIS's core strength has been emphasizing on its diverse ranges of software and hardware solutions. Since its inception, WaveGIS has provided M2M (Machine to Machine), IoT (Internet of Things), and AIoT (Artificial Intelligence of Things) products to support customers' distributed, integrated information technology frameworks.

WaveGIS has been and will be cooperating and collaborating with engineering design companies, telecom providers, as well as IoT manufacturers to continue implementing, integrating a wide range of comprehensive applications, horizontally and vertically, and emerging trends of technologies across industries to achieve the goals of Green Environments and Smart Cities.

Product Description

LPWAN Data Transmitter

- Combined with barometric pressure MEMS (microscale electro-mechanical systems) modules and low power characteristic, the sensor is suitable to monitor and measure water levels of drainage, sewer systems or inundation depths.
- Having high accuracy, low power consumption and lightweight, the product can be easily installed and maintained. It has the feature and functionality of acquiring real-time data from fields for further analyses, computing and modeling applications.



Water Purification Equipment & Drinking Water

Taiwan Pai Tech Machinery Co., Ltd.

Booth No. A0835

www.paitech.com.tw

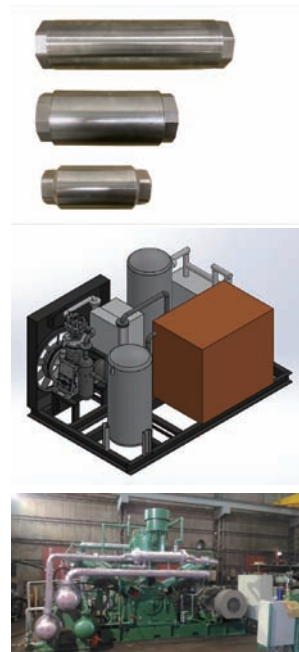
Company Profile

Based on the 40-year research and development ability in the field of professional technique, our products can always meet the market demands by constantly creating innovation, doing researching, and developing the new types of air compressors. The component set of our air compressors accord with the materials and components recognized in Europe, America, and Japan etc. Our network of the sales positions spread all over Europe, America, Central America, South America, Australia, Africa, Asia, and so on. Since our establishment, the concept and consensus of Quality First, Service First, R&D First has been our essence. Meantime, we have developed the low-cost air compressors and peripheral equipment with good quality for many industries, including the food, petrochemical, medical treatment, textile, cement, plastic industries.

Product Description

Double-acting Reciprocating water-cooled oil-free high-pressure air compressor

- The cylinder and cylinder head sprayed with Teflon treatment so the parts are not easy to rust.
- Due to the excellent machining of the crankshaft, the compressor balanced operation with minimal vibration to reduce time-consuming and laborious installation.



Mbran Filtra Co., Ltd.

Booth No. A0735

<http://fb.me/MbranFiltra>

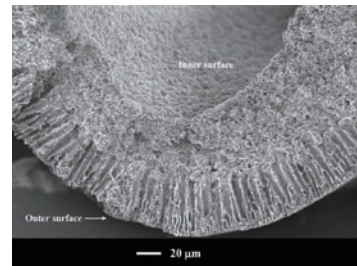
Company Profile

Mbran Filtra was established in 2019 focus on membrane filtration materials study and development. Mbran Filtra produces a broad range of microporous membranes for use in various industries. Our hydrophobic and hydrophilic membranes are made from a variety of materials, such as poly ether sulfone, poly vinylidene fluoride and poly propylene, to meet highly diversified market requirements. Mbran Filtra supplies these membranes to filtration module manufacturers or cartridge producers to incorporate into their final products. Our production technology and controls allow us to fabricate self-supporting PES membranes. By casting an asymmetrical pore structure using the NTV-IPS process, Mbran Filtra produces a reliable portfolio of microfiltration membrane products.

Product Description

MF-PES hollow fiber membrane

- Made from polyether sulfone polymer. Using our unique manufacturing process, we build multifunctional properties or layers into the pore structure of the membrane.
- These layers are created with one manufacturing step. MFPEs hollow fiber membrane is available in a wide range of pore sizes from 0.04 to 0.4 μm to meet the requirements of many different specific applications.
- The highly asymmetric pore structure of our MFPEs hollow fiber membrane offers a high dirt loading capacity, increasing the filtration performance to give higher throughputs and higher flow rates than symmetrical membranes.



Process Control Technology & Process Automation

FineTek Co., Ltd.

Booth No. A0514

www.fine-tek.com

Company Profile

Based on Taiwan, FineTek is a global industrial sensor design and manufacturing company. Its brand and main sale territories include Asia (FineTek), Europe (muetec instrument) and North America (AplusFine). The sustainability focus of FineTek, is to integrate the development for water, food and energy resources with data surveillance. FineTek' s visionary will develop more efficiency of sensor technology, to facilitate the circulation, transformation and regeneration of resources between water, food and energy. It aims to link the Information Technology (IT), Communication Technology (CT) & Operational Technology (OT) between processes, machines, and networking the O+O (On-Line & Off-Line) servitization.

Product Description

JFR3 FMCW Radar Level Transmitter

- JFR3 FMCW radar level transmitter is a non-contact measuring device, suitable for liquid measurement in most tanks.
- It is easy to install, convenient to maintain, and can be used in high temperature, high pressure and corrosive applications.
- With its high precision and stability, it is widely used in liquid level detection and process control in the industrial field.



FLOWINN

Booth No. A0515

www.flowinn.com.tw

Company Profile

FLOWINN electric drives serve all corners of the world, such as Europe, America, Australia, Africa, Asia, Middle East and Southeast Asia, and are widely used in water treatment, HVAC, petroleum, chemical, electronics, light industry, food, medicine, textile, Papermaking, hydropower, shipping, smelting, new energy and many other fields. The FLOWINN management system certification passed ISO 9001, ISO 14001, and the products passed the explosion-proof TS certification.

Product Description

Electric Drive

- The angular travel series electric drive products produced by Flowinn can meet the requirements of different torques and environments and functions.
- The main angular travel models include: EFMBI-3, EFMCI ~6-H, EFMI/A/BH, EOM2-9, EOM10 -12, EOM13-15 and ETM spring return products.

Electric Manipulator

- Multi-turn is an electric manipulator that outputs angular torque. The difference between it and the electric actuator with angular travel is that its output shaft rotates more than 360 degrees.
- Multi-turn electric manipulators are suitable for rotary valves with multiple rotations to complete the switching process, such as gate valves and globe valves.



Public Sector & Related Services

GSD Technologies Co.,Ltd.

Booth No. A0434

www.gsd.net.tw

Company Profile

"Optimize the Ecology & Environment, Benefit the Living & Beings" is GSD's vision; GSD believed that "Enterprise is for Public Society". For many years, GSD focus on Water & Waste water treatment pumps produced & development, besides, the related equipment for waste water treatment application was also introduced as series products, nowadays, GSD development smart water, unit intelligent control model, smart machine, prognostics and health management, predictive maintenance and E-inspection, already become a company with researching, manufacturing, and technical servicing enterprise.

Product Description

PLATE Membrane MBR

- The MBR reactor submerge in activated sludge tank, the filtrated liquid driven by low pressure difference of the membrane surface, its 0.04um holes of the membrane, can physically stop the particles, bacteria & virus.
- The effluent with advance water quality, low running cost, good system resistance, few sludge, highly automation also easy for modularity.
- As a compact unit/system, Newterra MBR can save lots of space; it can be used as the water reuse equipment, or main treatment unit of scaled WWTP.



UnaBiz

Booth No. A0434

www.unabiz.com

Company Profile

UnaBiz is an end-to-end Internet of Things (IoT) solutions company dedicated to accelerate the adoption of IoT worldwide. As the exclusive network operator of Sigfox's low-power wide-area network (LPWAN) in Singapore and Taiwan, UnaBiz is the first IoT dedicated network operator in Asia to roll out a nationwide IoT network.

Product Description

Meter Interface Unit (MIU)

- The Meter Interface Unit (MIU) for Taipei Water Department (TWD) uses Sigfox IoT technology and Automatic Meter Reading (AMR) to read the data of water meter transmitting directly to Automatic Meter Reading (AMR) without manual meter reading.
- The data is compressed by Automatic Meter Reading (AMR), transmitted to the backend of the UnaBiz cloud via Sigfox network, and then the decompressed raw data is transmitted to the platform for helping Taipei Water Department (TWD) for water conservation, saving precious water resources with higher efficiency.



Advantech Co., Ltd.

Booth No. A0434

www.advantech.com

Company Profile

Advantech's corporate vision is to enable an intelligent planet. The company is a global leader in the fields of IoT intelligent systems and embedded platforms. To embrace the trends of IoT, big data, and artificial intelligence, Advantech promotes IoT hardware and software solutions with the Edge Intelligence WISE-PaaS core to assist business partners and clients in connecting their industrial chains. Advantech is also working with business partners to co-create business ecosystems that accelerate the goal of industrial intelligence.

Product Description

Blowing and Aeration Energy Saving

- Treatment process optimization cloud-enabled solution for biological wastewater treatment.

Coagulation Sedimentation Process Dosing Control

- Treatment process optimization cloud-enabled solution for sludge sedimentation.

Membrane Bioreactor System

- Treatment process optimization cloud-enabled solution for membrane bioreactor system (MBR).



Eco-Tech

DILEMMA CO., LTD.

Booth No. A0616

www.Dilemma.com.tw

Company Profile

Combining dehydration, heat pump technologies and air pollution treatment technologies, we integrate techniques and resources into our application products, such as sludge drying system, liquid condensation and crystallization system and VOCs treatment, etc., and diverse peripheral facilities. With a strong technical background, Dilemma provides high quality products and services.

Product Description

Heat Pump Sludge Drying System

- Optimum models for either batch process or continuous process whether of small or large scale treatment.
- Choices of diverse peripheral facilities including feeder, conveyor, holding tank, etc., for combining into turnkey solutions that offer trouble-free procurement.
- Comprehensive service procedures offering pre-purchase test services as well as test runs, maintenance and warrant services that guarantee the most reliable equipment utilization.



Ju Tian Cleantech Co., Ltd.

Booth No. A0831

www.plastic-free.com.tw

Company Profile

Starting from the concept of circular economy and wastes recycling, Mr. Huang Chien Chung has been doing research on green materials since 2007. Various eco materials and products have been gradually developed and designed with the philosophy of reaching zero-waste. In 2017, "Sugarcane straws" was launched. Expecting to improve plastic pollution problem, he reuses the wasted sugarcane fiber (the by-product of sugar-making process), and turns it into raw materials. We are strongly promoting UNSDGs17 by actively participating conferences, and also concern the issues including fair trade, circular resources and plastic pollution.

Product Description

Sugarcane Straws

- The material has a wide variety of applications, and we especially made it into biodegradable and compostable straws in order to replace plastic straws and improve the plastic pollution problem.
- By extending the life span of resources, we expect to gradually phase out the linear production mode known as "production-manufacture-use-discard" and switch to a new model of "production-manufacture-use-remanufacture" as the execution of circular economy.



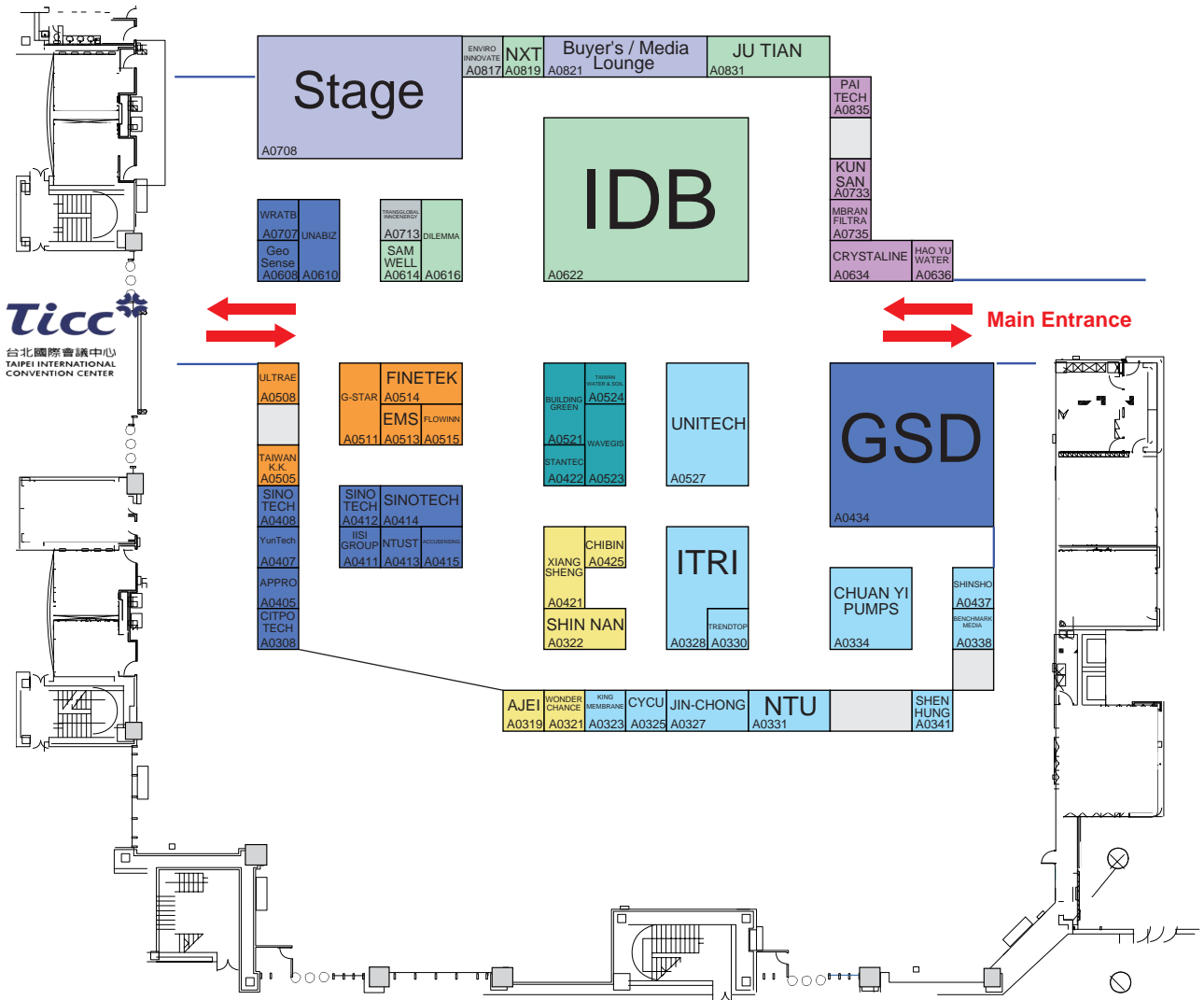
Floor Plan



- Reclaimed Water & Treatment
- Transport & Storage
- Green Infrastructure
- Water Purification Equipment & Drinking
- Public Sector & Related Service
- Process Control Technology & Process



- Eco-Tech
- New Business Model



* Updated on August 20, 2020. Information in this show preview is subject to change without further notice.

In every city around the world, You can always find a story

Take a Flight of Inspiration 



EVA departs from Asia to North America, Europe and Oceania.
We connect you to the world with comfortable, convenient and safe flights.



EVA Air, a SKYTRAX-certified 5-Star Airline.

To New Horizons



Celebrating China Airlines' 60th anniversary



For six decades, China Airlines has provided world-class service from jetway to jet stream. Our next 60 years will be defined by truly transcendent travel experiences.





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