YHR TANKS & SILOS

GLASS FUSED TO STEEL

EPOXY COATED STEEL

STAINLESS STEEL

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FOR A BETTER ENVIRONMENT

ABOUT YHR

Beijing Yingherui Environmental Technology Co., Ltd (as known as YHR), a Chinese National High-Tech Enterprise, is the global industry leading designer, manufacturer and erector of Bolted Steel Tanks and Silos. YHR has two modern and cutting-edge manufacturing facilities in Caofeidian city and Jinzhou city, Hebei Province, China.

In December 2019, YHR Environment and Guangdong Juncheng Biotechnology Co., Ltd. merged and reorganized into Junchengherui Environmental Technology Group Co., Ltd (referred to as "JCHR"). JCHR is a holding subsidiary of Guangdong Juncheng Investment Holding Co., Ltd., a Wens Group company.

A WENS GROUP COMPANY

- **The first and the largest Glass-Fused-To-Steel Tank and Epoxy Coated Steel Tank manufacturer in Asia**
- **The first Chinese Glass-Fused-To-Steel Tank manufacturer certified by NSF/ANSI 61 Standard**
- **YHR drafted the Chinese Standard QB/T 5379-2019 for Glass-Fused-To-Steel Tanks**

OUR PRODUCTS

Glass Fused To Steel Tanks

Combines the advantages of both materials – the strength and flexibility of the STEEL and highest corrosion resistance of the GLASS.

Epoxy Coated Steel Tanks

Fusion Bonded Epoxy (FBE) is an electrostatically applied coating system with superior coverage and uniform coating thickness.

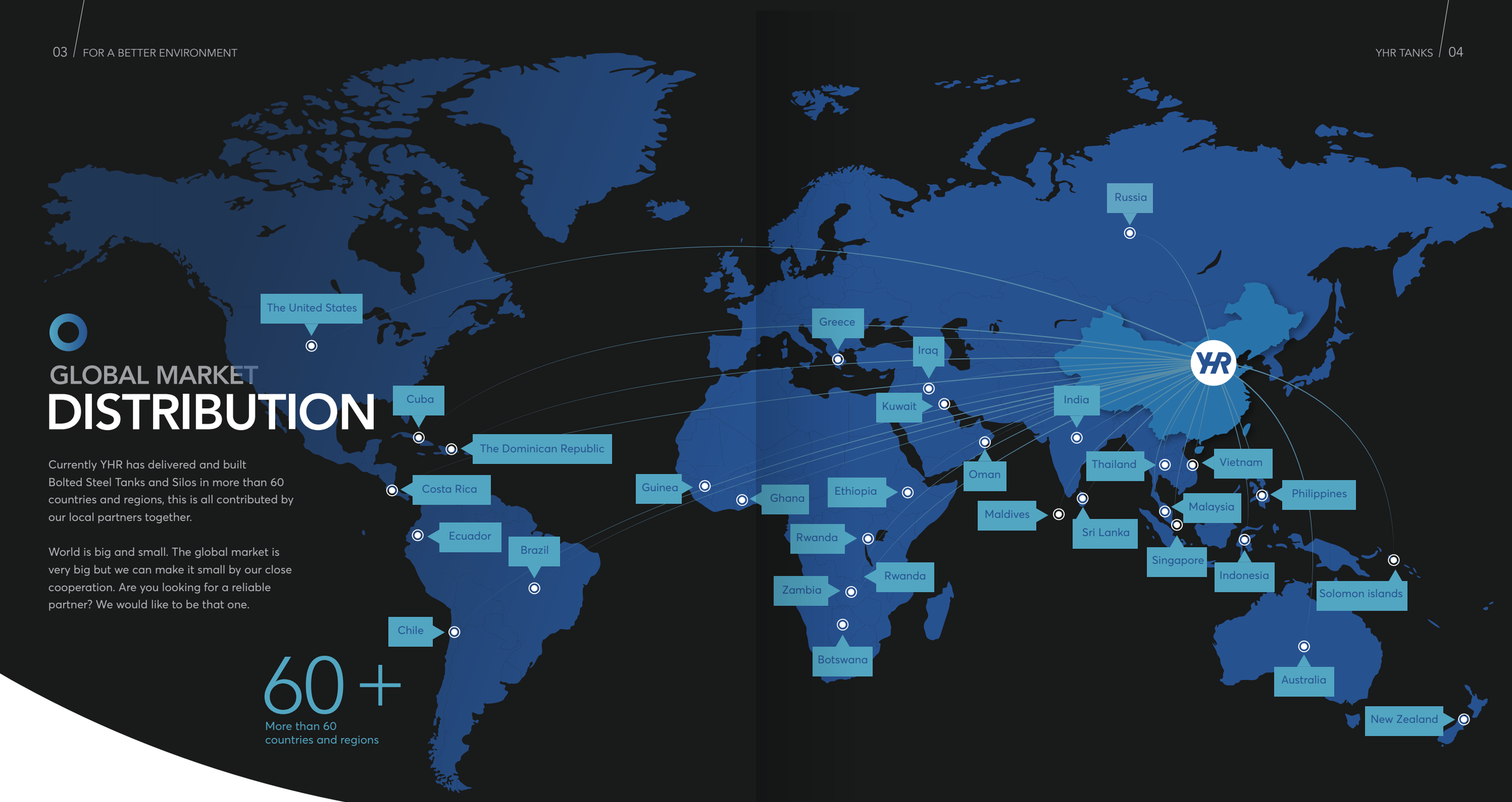
Stainless Steel Tanks

Stainless steel bolted tanks utilise the inherent corrosion resistance of stainless steel which can be used in many storage applications.

GLOBAL MARKET
DISTRIBUTION

Currently YHR has delivered and built Bolted Steel Tanks and Silos in more than 60 countries and regions, this is all contributed by our local partners together.

World is big and small. The global market is very big but we can make it small by our close cooperation. Are you looking for a reliable partner? We would like to be that one.



60 +

More than 60 countries and regions

OUR
CLIENTS

Heineken · VEOLIA · 中粮 COFCO · RedBull 红牛 · 新希望集团 NEW HOPE GROUP · MANILA WATER CARE IN EVERY DROP · DANONE ONE PLANET. ONE HEALTH · Maynilad · PETRONAS

Coca-Cola · AB InBev · CHERY · Nestlé · BECHTEL · P&G · China Resources Better Life Together · Yili · PT. GUDANG GARAM Tbk

GLASS FUSED TO STEEL

YHR Glass-Fused-To-Steel Technology, is a leading solution combines the advantages of both materials – the strength and flexibility of the STEEL and highest corrosion resistance of the GLASS. The Glass fused to the Steel at 1500 – 1650 deg. F (800 - 900 deg. C), become a new material: GLASS-FUSED-TO-STEEL with perfect anti-corrosion performance.

YHR has developed high-strength TRS (Titanium Rich Steel) plates specially produced for the Glass-Fused-To-Steel Technology, which can work perfectly with our glass frit and can eliminates the "Fish Scale" defect.

Advantages

01 Excellent anti-corrosion performance

02 Fast installation with better quality: design, manufacturing and quality control in factory

03 Safe, skill-free: less working aloft, no need for long time worker training

04 Less influenced by local weather

05 Maintenance-free and easy to repair

06 Possible to relocate, expand and reuse

07 Beautiful appearance

SPECIFICATION

YHR GLASS-FUSED-TO-STEEL TANK SPECIFICATION

Standard Color	RAL **5013** Cobalt Blue
Coating Thickness	**0.25-0.45**mm
Coating Process	Standard **2** coats, **3** coats available
Adhesive	**3450**N/cm
Elasticity	**500**KN/mm
Hardness	**6.0** Mohs
PH Range	Standard Grade **3**～**11**; Special Grade **1**～**14**
Holiday Test	acc. to tank application, **900**V to **1500**V
Service Life	more than **30** years

Standard Color

RAL 5013 Cobalt Blue

Optional Colors:
- RAL 6002 Leaf Green
- RAL 6006 Grey Olive
- RAL 9016 Traffic White
- RAL 3020 Traffic Red
- RAL 1001 Beige (Tan)

Certifications & Capabilities

- QB/T 5379-2019
- AWWA D103
- EN ISO 28765
- NFPA 22
- OHSA PT. 1910
- ISO 9001:2015
- NSF/ANSI 61
- Holiday Testing

EPOXY COATED STEEL

Fusion Bonded Epoxy (FBE) is an electrostatically applied coating system with superior coverage and uniform coating thickness. AkzoNobel high-tech RESICOAT R4-ES used on the internal surface combined with the ultra durable INTERPON D2525 on the external surface ensures high performance corrosion resistance for storage tanks and silos.

The internal coating RESICOAT R4-ES is NSF/ANSI 61 certified for drinking water contact, and the internal contact surface of every panels are zero defects tested at 1100v before delivering to the clients.

Internal Coating - RESICOAT® R4-ES

Application	Test	RESICOAT ®R4-ES
Dry Film Thickness	Non-Destructive Test	**6-10** mils / **150-250** microns
Hot Water Immersion **90** days, **70**℃	AWWA C**550-05**	Pass
Adhesion after **7** days, **90**℃ water	ISO **4624**	≥**16**MPa
Corrosion Resistance	Salt Spray ISO**9227** / ASTM B**117**	Meets or exceeds industry norms
Impact Resistance	ASTM G**14** **3.2**mm(**1/8** in) steel plate	≥**18** Joule
PH Range	-	**3-13**
Abrasion Resistance	Abrasion wheel ASTM **4060**	CS-**17**， **1000**g， **1000** cycles <**40**mg
Hardness	ISO**15184** / ASTM **D3363**	**2**H
Chemical Immersion	**50**% NaOH, **50**% H_2SO_4	**2** years no change
Holiday Test	**1100**v every panel	Discontinuity free (Zero defects at test voltage)

External Coating - INTERPON® D2525

Application	Test	INTERPON® D2525
Dry Film Thickness	Non-Destructive Test	**6-9** mils / **150-230** microns (combination of an epoxy primer and polyester topcoat)
UV Resistance	Florida outdoor exposure testing	**5** years
Color Stability	Florida outdoor exposure testing	**5** years
Impact Resistance	ISO **6272**	Pass Qualicaot Class **2** Requirements

STAINLESS STEEL TANKS

Indonesia

Gudang Garam Clove Silo Project

1630m³*15
Tank Capacity

Φ 11.39*16.72m (H)*15
Tank Dimensions

2020
Construction Time

Stainless steel is a group of iron-based alloys that contain a minimum of approximately 11% chromium that prevents the iron from rusting and provides heat-resistant properties. Stainless steel bolted tanks and silos utilise the inherent corrosion resistance of stainless steel which can be used in many liquid and dry bulk storage applications.

Without the need for any further protection stainless steel tanks and silos can give robust long-term service with the added benefit of an excellent recycling value when the tank is no longer required.

YHR TANKS & SILOS

APPLICATION

01 **Municipal Wastewater**

02 **Industrial Wastewater**

03 **Potable Water**

04 **Fire Protection Water**

05 **Biogas Digester**

06 **Slurry Storage**

07 **Sludge Storage**

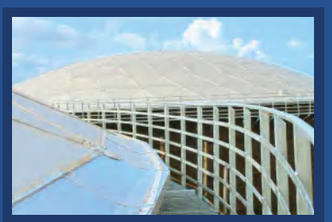
08 **Liquid Leachate**

09 **Dry Bulk Storage**

Roofs

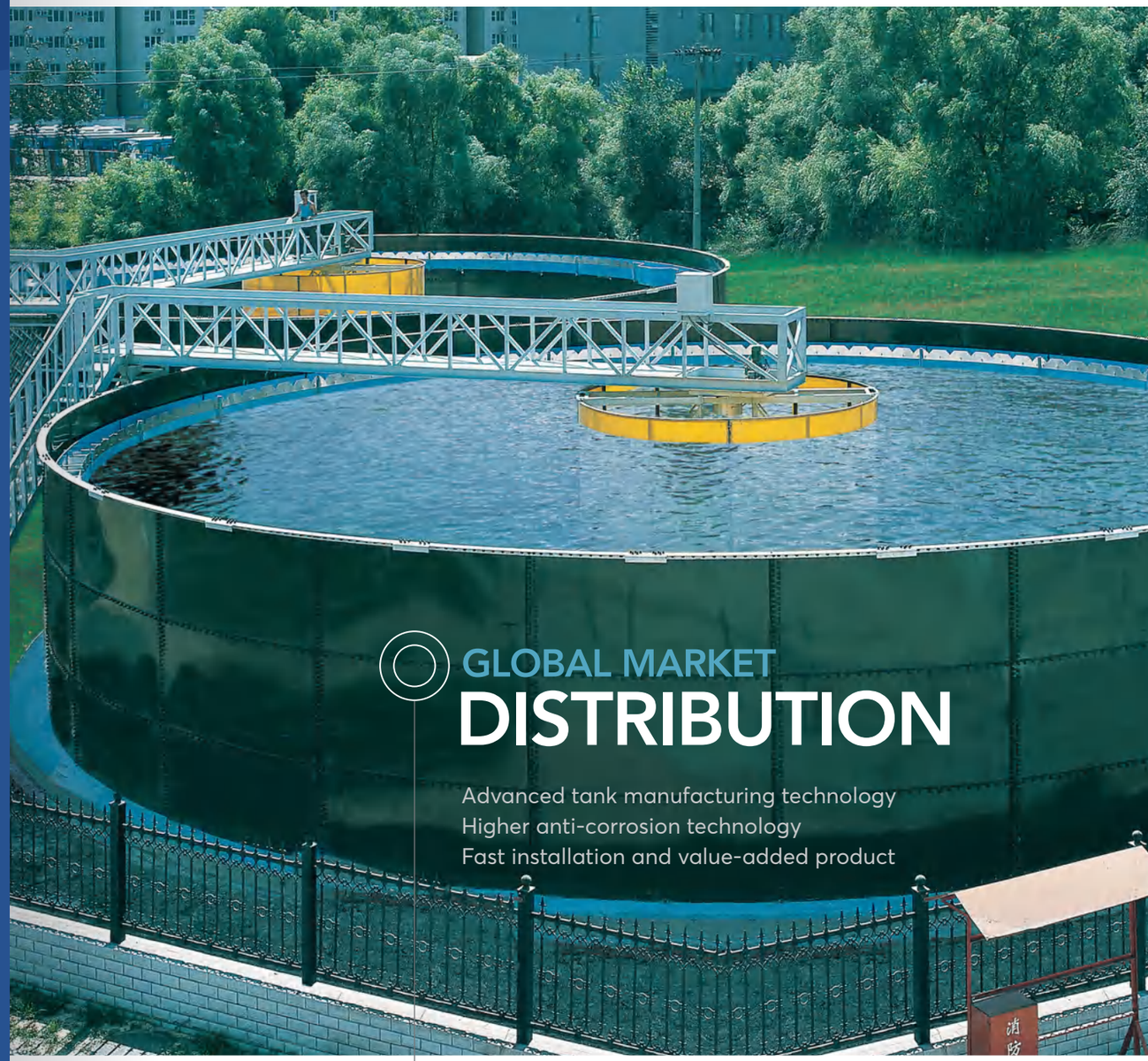
- Conical Steel Roof

- Aluminum Geodesic Dome Roof



- Aluminum Trough Deck Roof

- Double Membrane Roof



GLOBAL MARKET

DISTRIBUTION

Advanced tank manufacturing technology
Higher anti-corrosion technology
Fast installation and value-added product

China

Olympic Park Sewage Treatment Project for 2008 Beijing Olympic Games

320m³*4
Tank Capacity

Φ 10.7 m*3.6 m(H)
Tank Dimensions

2006
Construction Time

Philippines

Manila Water Potable Water Storage Project

5390m³*4
Tank Capacity

Φ26.74*9.6 m(H)*4
Tank Dimensions

2015
Construction Time

Greece

ABEE Biogas Plant Project

170m³*2, 810m³*4
Tank Capacity

Φ7.64*3.6 m(H)*2, Φ10.7*9 m(H)*4
Tank Dimensions

2013
Construction Time

Brazil

Chery Automobile WWTP Project

110m³*2, 420m³*2
Tank Capacity

Φ6.11*3.6 m(H)*2, Φ12.22*3.6 m(H)*2
Tank Dimensions

2013
Construction Time

Russia

Danone WWTP Project

280m³*1, 650m³*2, 740m³*1
Tank Capacity

Φ6.11*9.6 m(H), Φ10.7*7.25 m(H)stainless steel tank*2, Φ9.93*9.6 m(H)
Tank Dimensions

2016
Construction Time

Thailand

Red Bull Malt Whiskey Alcohol Wastewater Storage Project

1740m³
Tank Capacity

Φ17.57*7.2m(H)
Tank Dimensions

2020
Construction Time

Costa Rica

ASADA Potable Water Storage Project

140m³*1
Tank Capacity

Φ6.11*4.8 m(H)
Tank Dimensions

2020
Construction Time

Chile

AB InBev WWTP Project

70m³*1, 180m³*1, 220m³*1, 460m³*1
Tank Capacity

Φ3.82*6.0 m(H), Φ6.88*4.8 m(H), Φ7.64*4.8 m(H), Φ9.93*6.0 m(H)
Tank Dimensions

2019
Construction Time

Solomon Islands

Heineken Sewage Treatment Project

890m³*1, 110m³*1
Tank Capacity

Φ13.75*6.0 m(H)*1, Φ5.35*4.8 m(H)*1
Tank Dimensions

2019
Construction Time

America

City of Chicago Fire Water Storage Project

500m³*1
Tank Capacity

Φ8.8*8.4 m(H)
Tank Dimensions

2020
Construction Time

Ghana

Coca-Cola Group Soft Drinks Plant Sewage Treatment Project

430m³*1, 860m³*2, 170m³*1
Tank Capacity

Φ9.17*7.2 m(H), Φ12.99*7.2 m(H), Φ6.88*5.4 m(H)
Tank Dimensions

2020
Construction Time

Malaysia

Petronas (Malacca) Refinery Plant WWTP Project

700m³*3, 330m³*1, 170m³*1
Tank Capacity

Φ12.22*6.0m(H)*3, Φ8.4*6.0m(H) Φ6.88*4.8m(H)
Tank Dimensions

2020
Construction Time

Cuba

Nestle Group Potable Water Storage Project

700m³*2
Tank Capacity

Φ9.17*11.4 m(H)*2
Tank Dimensions

2020
Construction Time