

**We Manufacture with
Engineering Know-how!**

**GFS tank
Storage
Solution**



**WWTP
Reactor
Solution**



**Biogas Plant
AD Solution**



北京盈和瑞环境科技股份有限公司

BEIJING YINGHERUI ENVIRONMENTAL TECHNOLOGY CO.,LTD



01

About YHR



About YHR

YHR was established in 2005, a Chinese national high-tech enterprise.

First and biggest GFS tank manufacturer.

Leading company on recycling of Agriculture organic waste.

Biggest Biogas equipment manufacturer in China.

Among the top 3 Biogas EPC contractors in China.

We are expanding overseas market now,

Our equipment has been delivered to more than 10 countries.



7000+

GFS Tanks installed globally

400+

Equipment supplied
in Biogas industry

500+

Sewage treatment reactors
supplied

20+

EPC more than 1 MW
biogas plants in China



Professional Team



YHR owns a high qualified professional team with more than 200 employees currently, consisting of 3 PhD, 25 Masters and more than 50 high qualified engineers.

The main YHR leaders are all with background of EMBA, extensive industry experience and advanced business philosophy.

We are flexible and efficient to provide you customized solution.





Our Customer

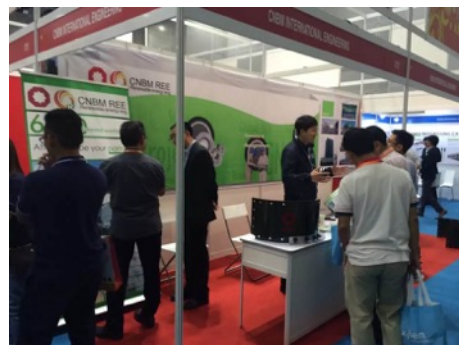
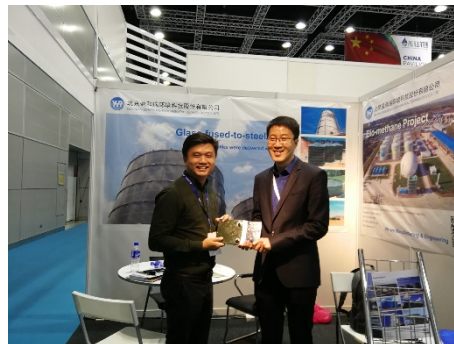


www.yhri.cn



Professional Team

YHR Sales Team and Local Distributors



YHR Team in IE-EXPO SHANGHAI

To support the marketing for the local distributors, YHR and distributors exhibits in over 15 exhibitions worldwide and 10 exhibitions in China every year



Service



Equipment manufacturing

GFS tanks, Sewage Reactor, Biogas Digester, Membrane Biogas Holder.



Biogas EPC

YHR offers service from Consulting, Design, Installation Guidance, Commissioning, After-Sale Service, etc.



Investment

Investment in agricultural organic waste centralized treatment, including biogas power generation, organic fertilizer production.



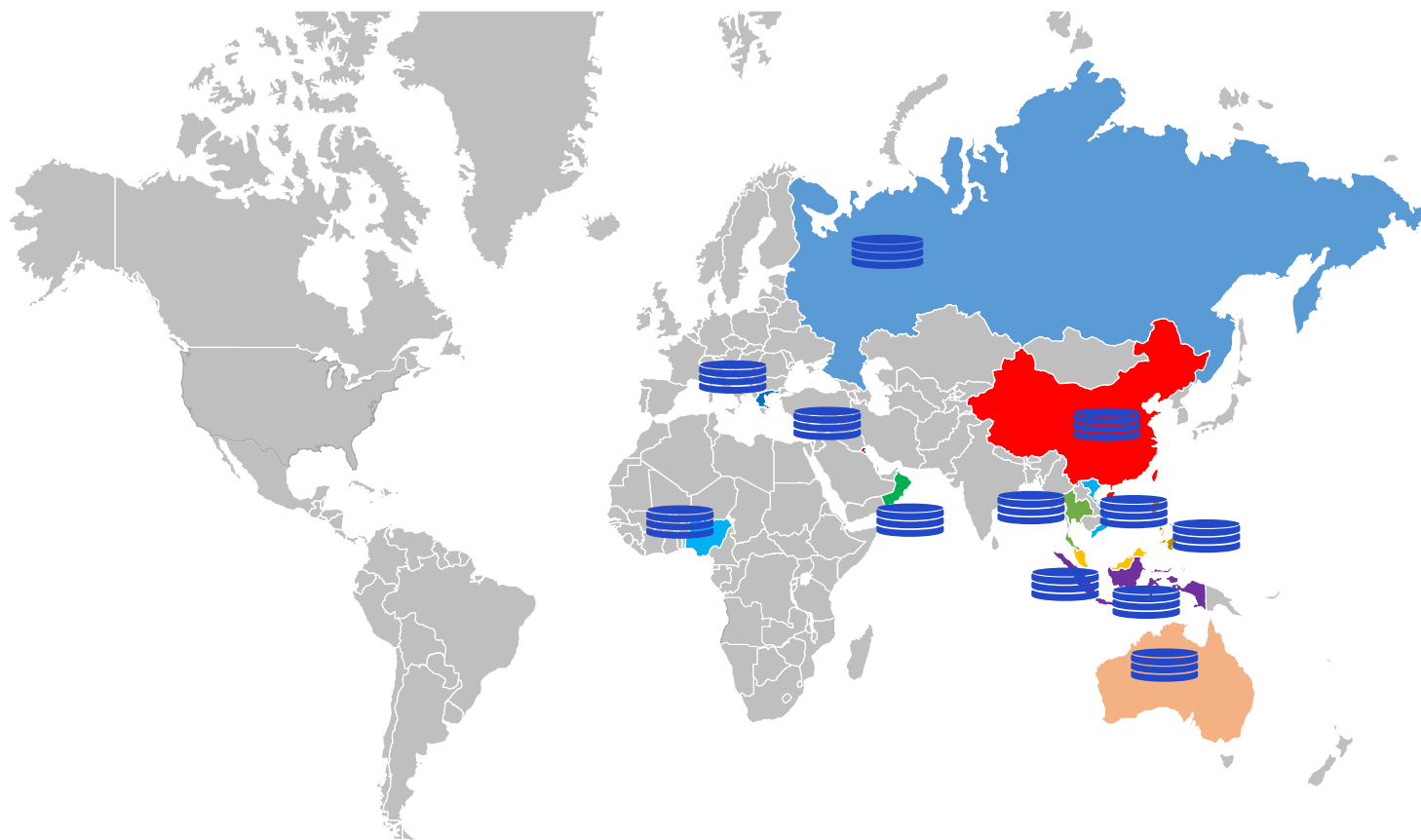
Operation Management

Biogas Engineering cooperative operation, fully managed operation, leasing operation, etc.

YHR safeguard the project benefits by our expertise.



Global market distribution



- Currently YHR' s references have distributed in Russia, Southeast Asia, Australia, Middle East, Greece, etc. 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.



02

Equipment Manufacturer

A large, circular, dark-colored tank, likely made of glass-fused-to-steel, is the central focus of the image. It is situated outdoors at a wastewater treatment plant. The tank is surrounded by a metal walkway with railings. In the background, there are other similar tanks and lush green trees. The sky is clear and blue. The text is overlaid on the top and bottom of the image.

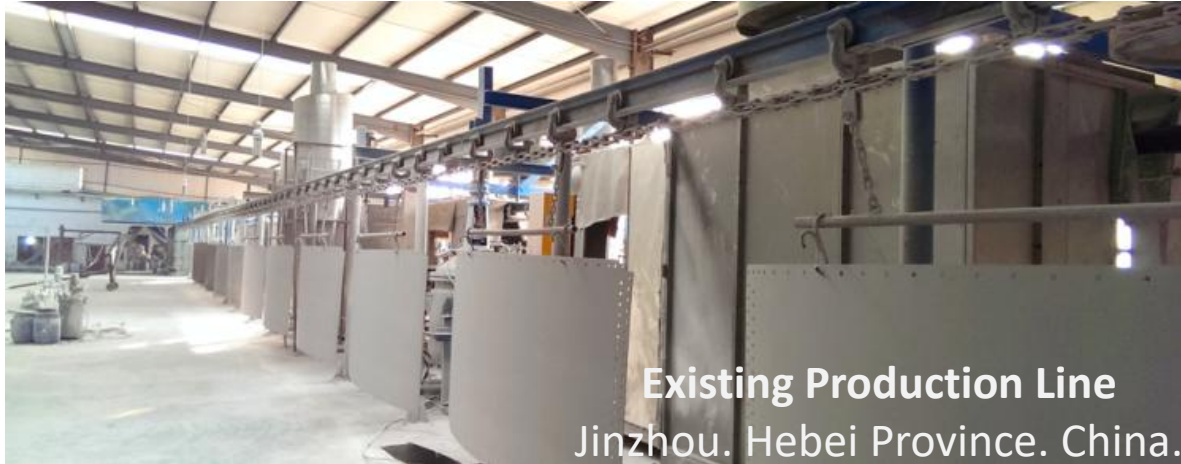
Advanced tank manufacturing technology, higher anti-corrosion performance, fast installation and value-added product.

In 2005, the municipal wastewater treatment in Olympics park. We shorten the construction time from 3 months to 30 days.

**Equipment manufacturer-
Glass-Fused-to-Steel Tank**



GFS Tank Production Line- Upgrading now!



YHR Tangshan factory is coming soon,
which will be the largest manufacturing
facility of Glass-Fused-To-Steel Tanks
in China & Asia.





International Standard & Certification



ISO 9001:2008



ISO 14001:2015

- ISO 9001:2008 Quality Control System
- ANSI AWWA D103-09: Factory-Coated Bolted Carbon Steel Tanks for Water Storage
- All materials which in contact with water, conform to NSF/ANSI 61 Standard



Modularized design and manufacture/Factory quality control/Fast Installation



In 2005, Jiuquan satellite launch center

10,000t domestic wastewater/d.

It is the first time GFS tank installed in Gobi Desert !

The installation work is done within only two months.

Dedication for China Space Industry!






Mink manure biogas plant
In 2009, Greece Europe
Our tank first entered in European market.

7000+ GFS Tank have delivered worldwide!

Application field

- ◆ Municipal wastewater, industrial wastewater, drinking water , sludge disposal, livestock effluent
- ◆ Landfill leachate, kitchen waste and Agricultural organic waste.

YHR is a leading company drafting China GFS Tank Industry Standard.



Modularized IC reactor for a paper mill waste water treatment plant.

Biggest waste incineration plant in Mentougou District, Beijing

Participated in CCTV documentary

-Chinese mega project.

UBF reactor



▼
We are more than
a manufacturer.

Biggest effluent reactor
supplier, serve for 300+
effluent project.

Include:
UASB/IC/EGSB/UBF/SBR
/contact oxidation
/ Sedimentation Tank.

YHR has proven himself in different conditions for global customers.



▲ Russia




◀ Indonesia

▲ Kuwait



▲ Philippines



**We have designed and supplied Anaerobic
Digester for 400+ biogas plant**

We continuously optimize our process design. Based on advanced microbial process control theory, we integrate the most advanced mixing system and control system, to provide our customers efficient and stable projects.



Worldwide Project References

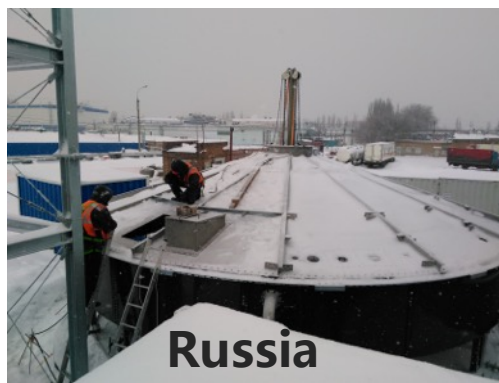
Vietnam



Greece



Singapore



Russia



Philippines



Thailand



Project Reference - Industrial & Municipal Wastewater





Project Reference - Drinking Water Storage





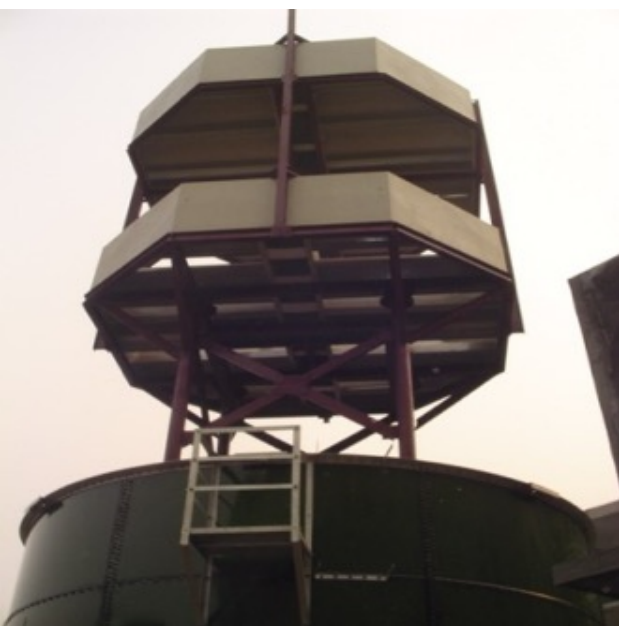
Modularized Reactor - UASB



Three phase separator - Modularized design & installation



Modularized Reactor – IC / EGSB

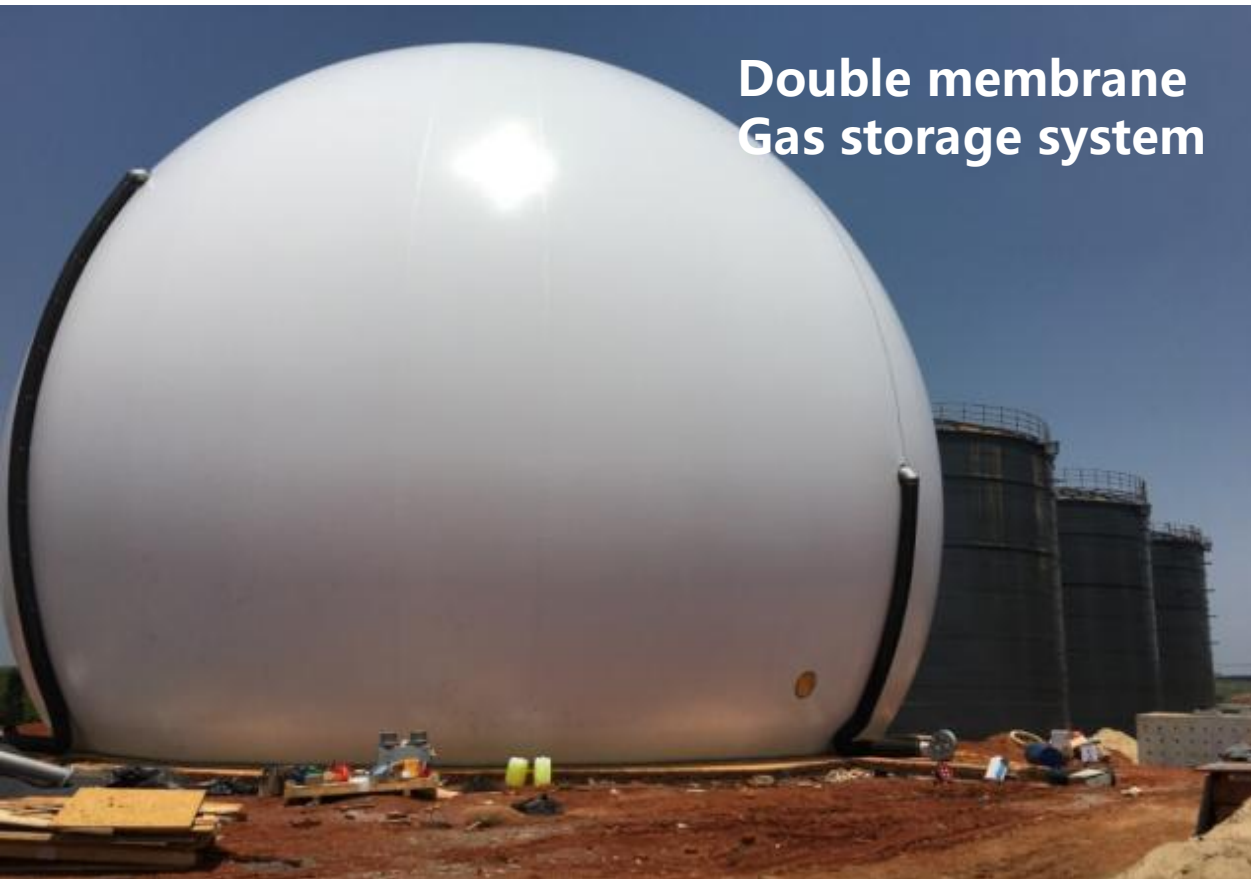


Three-phases separator



Modularized Reactor – CSTR





Double membrane Gas storage system

▲ Chicken manure + wheat straw 2.2MW
4000m³ Ground gas holder



▲ Corn Straw + Cow manure 3.3MW
5000m³ Ground gas holder



03

Biogas plant AD solution

**We never simply reproduce our design,
we tailor the solution for each customer.**

The substrate we could use:
Livestock manure\straw, MSW, kitchen waste,
organic wastewater etc.
POME 、 EFB, CAKE, Napier grass, cassava.

Co-digestion of Corn Straw & Cow manure

National Bio-Natural Gas Pilot project

Sanhe City, Hebei Province

33,000Nm³/d biogas



Semi-aerobic Hydrolysis Process

A high efficient biological pre-treatment technology for fibrous substrate



Dezhou City . Shandong province

First large-scale biogas plant for bio-methane from corn silage only without manure

Scale: 5MW

Substrate: pure corn straw

Various livestock slurry co-digestion biogas plant



Regional agricultural organic waste treatment center
Capacity: 2MW CHP + organic fertilizer
Pilot project of regional ecological recycling



Pure livestock manure biogas plant

Core technology: Anaerobic Biological Doubling Process

A patent process specially designed for low concentration

- **substrate: livestock manure(TS=2%)**
- **Capacity: 2MW**
- **Guangshui city •Wuhan province**



Chicken manure biogas plant

- **Substrate:** chicken manure and a small amount of wheat straw
- **Capacity:** 2MW
- **Haian city . Jiangsu Province**





Cow Manure Biogas Project



DataLoggerHour.PopUpReport

测量进气流量: 测量总量
JIA_DPU.FID1.LogAmount
FQ-BG-8DU-001

起始时间: 2017/4/28 16:07:54
结束时间: 2017/5/28 16:07:54
计算方法: 以天为单位计算总和

日期	流量 (Nm³)
2017/4/30	16,482.000
2017/5/1	16,721.000
2017/5/2	15,862.000
2017/5/3	14,451.000
2017/5/4	15,445.000
2017/5/5	15,332.000
2017/5/6	16,926.000
2017/5/7	17,199.000
2017/5/8	17,191.000
2017/5/9	16,607.000
2017/5/10	16,359.000
2017/5/11	16,772.000
2017/5/12	16,843.000
2017/5/13	16,334.000
2017/5/14	16,884.000
2017/5/15	17,056.000
2017/5/16	17,109.000
2017/5/17	16,957.000
2017/5/18	16,867.000
2017/5/19	17,227.000
2017/5/20	18,240.000
2017/5/21	17,803.000
2017/5/22	16,166.000
2017/5/23	17,531.000
2017/5/24	16,725.000
2017/5/25	16,528.000
2017/5/26	17,177.000
2017/5/27	17,082.000

▲ Jialihe, Shandong

Substrate: cow manure, 1.5MW TS%4-5%, High gas yield rate $\geq 1.5\text{m}^3/\text{m}^3\cdot\text{d}$
with short HRT, down to 12.5d SRT/MRT $\geq 25\text{d}$; Gas yield $\geq 550\text{Nm}^3/\text{t VS}$

Biological Desulfurization System



Different patented process design for different biogas usage:

Acid type biological desulfurization

Alkali type biological desulfurization

Chemical desulfurization

Cases:



Gas flow:1700m³/h,
H₂S:7000-8000ppm, Alkali
BDS
H₂S Reduction up to 99.5%.





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THANKS



北京盈和瑞环境科技股份有限公司
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