



# Hebei Wansheng Environmental Protection Engineering Co.,Ltd.



To build first class environmental protection company based on glass fused to steel tanks!



# Company profile

●Hebei Wansheng Environmental Protection Engineering Co.,Ltd. Is located in Zhengding city which is a national famous historic and cultural city with beautiful views,at its south is the capital city of Hebei-Shijiazhuang,at its north we have International Airport near us.The transportation is very convenient.Our company mainly undertakes: biogas engineering, large-scale biological natural gas engineering, landfill leachate resource treatment, kitchen waste energy treatment, urban domestic sewage, food wastewater, slaughtering wastewater, dairy wastewater, printing and dyeing wastewater, medical wastewater, chemical wastewater, beer wastewater, paper wastewater, pharmaceutical wastewater, alcohol wastewater and other types of sewage treatment engineering consulting, design, construction, commissioning and environmental protection equipment research and development



Company production base: Mainly engaged in production and development of enamel assembled tanks(GFS bolted tanks) and its accessories .

We have more than 200 patented technology products, we are the leading factory of glass fused to steel tank products in China.

## Certificates and patents

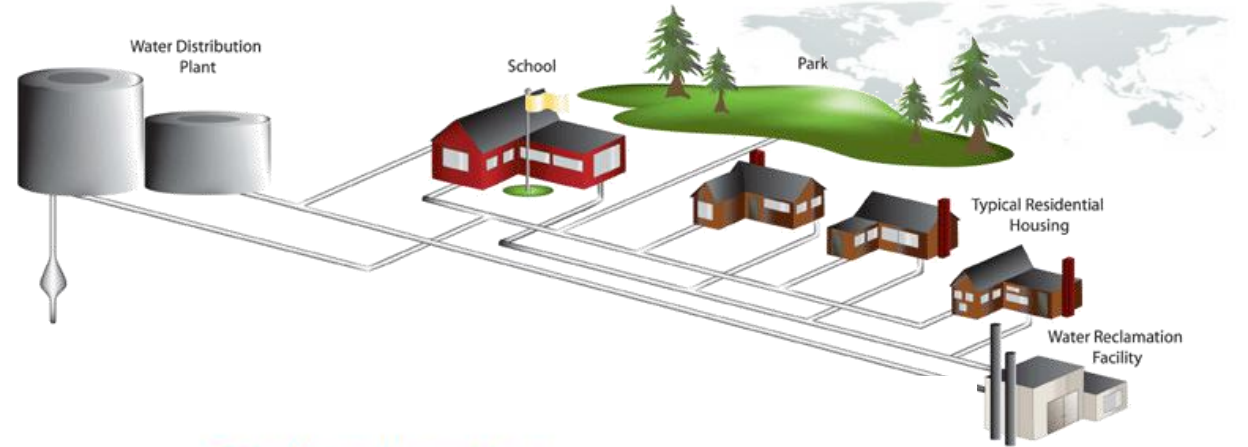


# GFS tanks introduction

GFS bolted tank is made of glass fused to steel plate, special sealing material, self-locking screw and other materials. The thickness of enamel steel plate can reach to 20 mm, the most used steel plate thickness is 3~10 mm, steel plate has surface oil, contain rust, contain oxide skin, after shot blasting, sand and other pretreatment process, the steel plate surface will be clean. After 900 °C high temperature second enameling in electric furnace, 0.3 mm enamel coating is applied on both sides of steel plate. strong binding force between enamel coating and steel plate. Enamel coating can not only prevent tank corrosion, but also has the function of strong acid and alkali resistance. And has extremely strong wear resistance.



# Product introduction



Environment friendly storage tanks in the new era



## Quality advantage

Good looking match the colours according to circumstance; Stable quality, better wear resistance, service life more than 30 years; Standardized equipment

## Cost advantage

short installation time, lower cost; Lower site requirements, no large installation equipment required; Simple maintenance, lower later stage cost

## Installation advantage

less affected by climate, can be installed under most conditions; convenient to install, simple construction ; Can be arbitrarily expanded, disassembled, migrated



# Production procedure



Our company has a history of more than 20 years, with advanced enamel technology. Steel contains titanium, so it has good chemical and physical characteristics . In addition, the ultrafine glass bubble structure of enamel coating makes the material have excellent flexibility and durability.



1、 Precision Process and Cutting

2、 Manipulator Automatic Spraying



3、 High Temperature Enamelling

4、 Inspection



# GFS / glass fused to steel /enamel steel plate specifications



Item	Specs
Coating Color	Standard color :dark blue and dark green,or customized
Coating Thickness	0.25~0.40mm
Acid and alkali resistance	Standard coating:PH3~11,special coating:PH1~14
Adhesive force	3450N/cm
Elasticity	About 500KN/mm
Hardness	6.0(Mohs)
Life	≥30years
Holiday test	1500v
Permeability	Gas and liquids impermeable
Cleaning	Easy to clean,smooth, inert, glossy, anti-stick
Corrosion resistance	Excellent for wastewater, concentrated salt water, seawater, high sulfur crude oil, salt spray ,organic and inorganic compounds



## Design standard



Our professional engineers design according to rigorous international standards to ensure the tank quality.

Our tanks are conform to following standards,

AWWA-D103-09

EN15282-2007

ISO 28765:2016

AS 1657-2013 Fixed platforms walkways stairways and ladders

AS NZS 1170.2-2011 Amdt 2-2012 Structural design actions - Wind actions

AS 1170-2007 Structural design actions -Earthquake actions in Australia

GB 50017 2003



# Installation



◆Professional construction team

◆The most rigorous installation design

◆Optimized installation arrangement

1<sup>st</sup> ring



2<sup>nd</sup> ring



# Applications

- Power ,energy and oil industry
- Wastewater Storage
- Drinking Water Storage
- Anaerobic Digester
- Landfill leachate Storage
- Agricultural Water Storage
- Fire Water
- Dry Bulk Storage
- Municipal Sewage

Power and Energy



Water treatment and supply



Wastewater treatment



Industrial bulk storage



# Project cases



Municipal solid waste disposal project in Changzhi county

Project Site: Changzhi County, Shanxi Province  
Size: 13.75\*16.2M (2400M<sup>3</sup>)  
Tanks : 2 sets  
Roof: GFS roof  
Installation finished: August, 2019



Sinopec High Salt Wastewater Treatment Project

Project Site: Quanzhou city, Fujian Province  
Size: 19.11\*20.4M (6100M<sup>3</sup>)  
Tanks : 4 sets  
Roof: GFS roof  
Installation finished: March, 2019



CSTR Reactor + IC Reactor in Shanghe, Jinan

Reactor type: CSTR Reactor + IC Reactor  
Size: IC  $\phi$ 4.58\*13.8 (H) 2sets  
CSTR  $\phi$ 23.67\*7.2 (H) 1set  
Project site: Shanghe county, Jinan City  
Installation finished: August, 2018



# Part of the installation list



## Biogas engineering

Large-scale Bio-natural Gas Project in Jalaid Banner, Inner Mongolia  
Large-scale Biogas Project of Baoding Remote Agriculture and Animal Husbandry Co., Ltd  
Large scale Biogas Project of Agriculture and Animal Husbandry in Langyashan, Yi County  
Large-scale Biogas Project of Yifeng Culture Company in Nangong, Hebei  
Large-scale Biogas Project of Longqing Animal Husbandry Co., Ltd  
Large-scale Biogas Project of Aunt Circle in Jimusar, Xinjiang

Biogas Project in Gansu Pastoral Beef Farming Cooperative  
Gansu Hengfa Culture Cooperative Large-scale Biogas Project

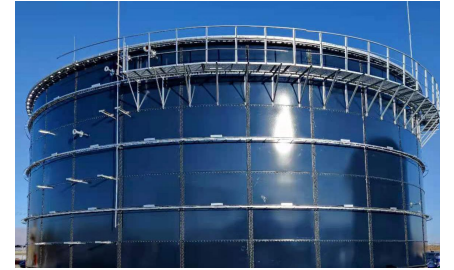


## Food sewage

Treatment of Heineken Beer Wastewater in East Timor  
Treatment of Laoshan Beer Wastewater  
Wastewater treatment in Phnom Penh, Cambodia  
Waste Water Treatment of Chu Weng Quan Liquor Industry in Baokang, Hubei Provin  
Wastewater Treatment of Anhui Kouzi Liquor Industry  
Treatment of starch wastewater in Handan  
Waste Water Treatment of Huifu Grain and Oil in Beijing  
Treatment of Yili Hefei Dairy Wastewater

## Landfill leachate treatment

Treatment of landfill leachate in Anyang, Henan  
Treatment of landfill leachate in Xinzheng, Henan  
Treatment of Landfill Leachate in Guanghan, Sichuan  
Zhangjiakou Wanquan Landfill Leachate Treatment  
Treatment of Landfill Leachate in Huaxi District, Guiyang  
Treatment of landfill leachate in Jinqiao, Inner Mongolia  
Landfill Leachate Treatment in Laiwu, Shandong



## Domestic wastewater

Beijing Olympic Games Supporting North Xiaohe Sewage Treatment  
Sewage Treatment at Jiuquan Satellite Launch Base  
Sewage Treatment in Town of Shangnong Farm in Dafeng, Jiangsu Province  
Sewage Treatment of Small Towns in Shuifu County, Yunnan Province  
Municipal sewage treatment in Wenzhou, Zhejiang



# Part of installation list

## Aquaculture wastewater

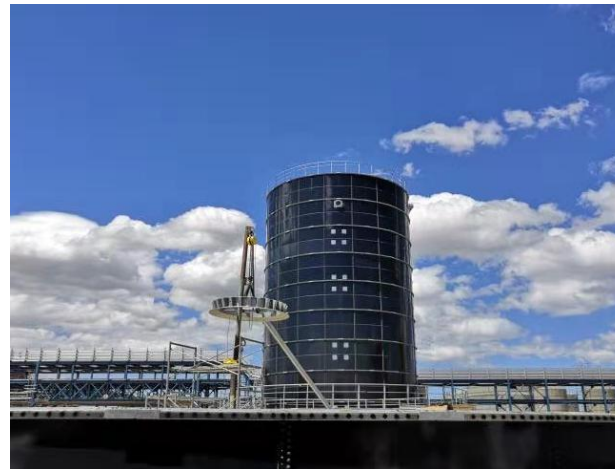
Treatment of wastewater from Nanchong, Sichuan  
Wynn Shanxi Yuncheng Wastewater Treatment  
Treatment of Xianyang Wastewater in Shaanxi Province  
Waste Water Treatment in Zhoukou Farm  
Wastewater Treatment in Baodi, Tianjin

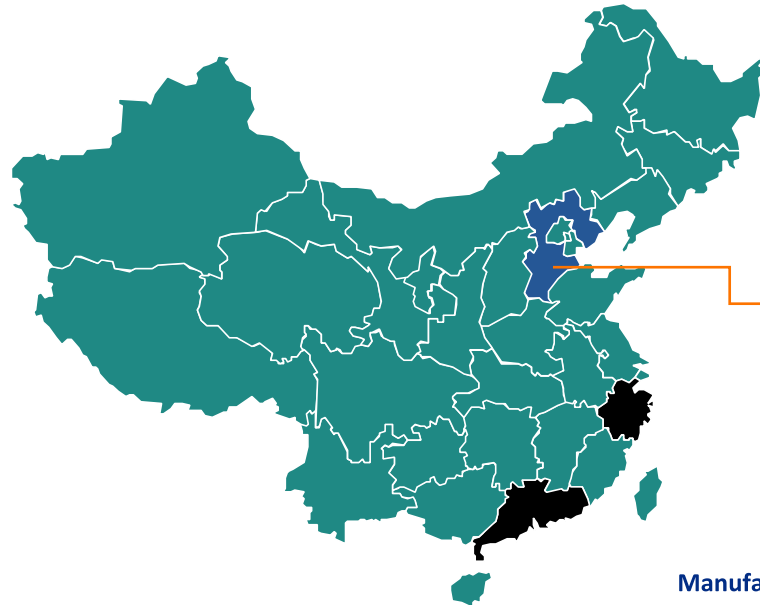
## Pharmaceutical wastewater

Sewage Treatment in Hunan Xiangxi Pharmaceutical Factory  
East Sunshine Pharmaceutical Sewage Treatment in Yidu, Hubei Province  
Sewage Treatment of Chongqing Jiang Jin Tai Chi Pharmaceutical Industry  
Sewage Treatment in Hangzhou Zoli Pharmaceutical Industry  
Treatment of Xindi Pharmaceutical Sewage in Qionglai, Chengdu  
Wastewater Treatment in Shijiazhuang Yiling Pharmaceutical Industry

## Chemical wastewater

Chemical sewage treatment project of Da Cao Zhuang Industrial Park  
Treatment of Coking Wastewater in Shanxi  
Oil Water Injection Project in Zhidan County, Shanxi Province





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