

PETROLEUM
PETROCHEMICAL
WASTE WATER
TREATMENT
SPECIALIST



OTC 欧泰克



**Beijing OTC Energy & Environment Engineering
Public Limited Company**

北京欧泰克能源环保工程技术股份有限公司

Beijing OTC

Energy & Environment
Engineering Public
Limited Company

北京欧泰克能源环保
工程技术股份有限公司



石油 石化污水处理专家

Beijing OTC Energy & Environment Engineering Public Limited Company commits itself to water resources protection, water pollution control, EOR, energy conservation, emission reduction and environmental protection, and is capable of providing professional solutions to client's satisfaction and to environmental requirements.



Petroleum, Petrochemical and Waste
Water Treatment Specialist

OTC 欧泰克

COMPANY CULTURE

Responsibility

Enthusiasm

Creativitye

Unity of Knowledge
and Practic

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MAIN PERFORMANCE

Company profile

Beijing OTC Energy & Environment Engineering Public Limited Company (Beijing OTC), founded in 1994, is mainly engaged in the oily waste water treatment in petroleum and petrochemical industries, industrial waste water and urban sewage treatment, equipment manufacture and the development, production and sale of chemicals. We can provide the clients with integrated solutions to the treatment of oilfield re-injection water, flushing fluid, fracturing flowback fluid, oily sludge, petrochemical waste water, industrial waste water and urban sewage. We have passed the certification of ISO9001/14001/OHSAS18001 quality, environment, occupational health and safety management system. As a high-tech and key environmental enterprise supported by Beijing Municipality, we possess the contracting qualification for environmental projects and the operation qualification for industrial waste water treatment and environmental pollution control facilities.

We were listed in NEEQ in December, 2012, and our stock code is 430195.

Beijing OTC has put in place the General Manager responsibility system under the leadership of Board of Directors. We have more than one hundred senior executives and engineering & technical staff. We are based in the high-tech development zone, Zhongguancun, Beijing, China. Since our foundation, we have always been placing technical innovation at the first place of our development strategy. Thanks to our continuous great effort, we have formed the core technologies with our own proprietary intellectual property rights, solved the technical problems in oilfield re-injection water area, popularized our core technologies and created our own brand by contracting projects, and expanded our business scope actively with the help of favorable external policy environment under which the state is paying more and more importance to environmental protection causes. Having executed nearly one hundred domestic and oversea projects, our overall competitiveness is increasingly enhanced. Now, we have become a specialized company with powerful technical strength and rich practical engineering experience in the filed of re-injection water treatment, waste fluid treatment and CPF operation for the petroleum and petrochemical industries in China.



September **2014**

Management
Service system
Products series
Standardized upgrade

December **2012**

Listed in NEEQ and our
stock code is 430195.

2010

Contracting qualification for
environmental projects and the
operation qualification for industrial
waste water treatment and environmental
pollution control facilities

January **1997**

ISO9001/14001/OHSAS18001 quality,
environment, occupational health and
safety management system

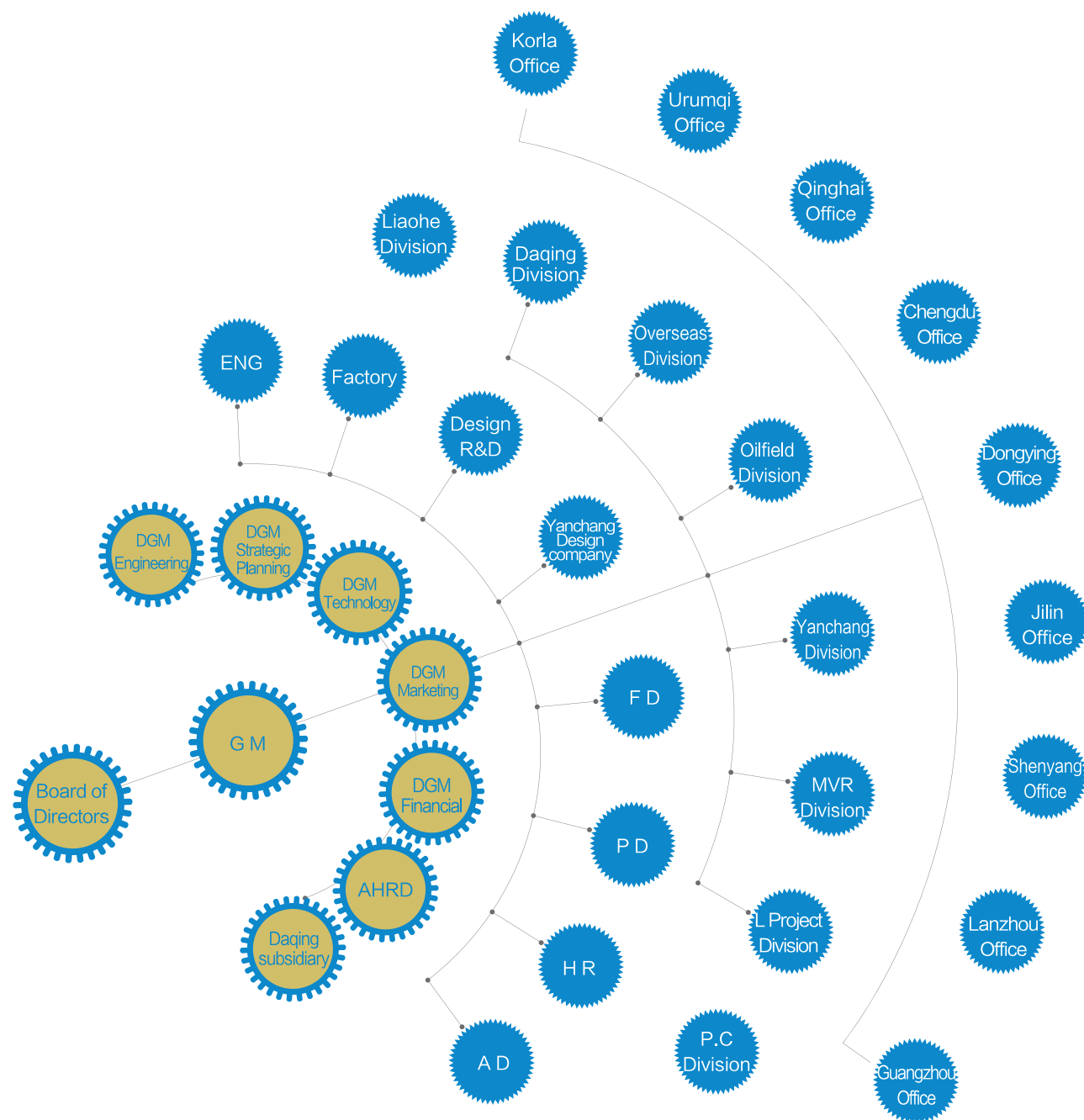
December **1996**

High-tech and key environmental
enterprise supported by Beijing Municipality

1994

Beijing OTC was founded

Organizational structure



Qualification certification

In 2000, Beijing OTC's "biotreatment technology for on-spec discharge of disposed oilfield produced water" and "refined treatment technology for low permeability oilfield injection water" became the preferred technologies for CNPC demonstration projects because of their leading position in domestic market. In 2003, we devoted ourselves to the development, popularization and project execution of SSF waste water purification technology. This technology was awarded with the first prize for scientific and technological progress of Shengli Oilfield in 2004 and the second prize for scientific and technological progress of Daqing Oilfield in the field of fracturing flowback fluid treatment in 2008.

Qualification & Certification

A key environmentally certified enterprise supported by Beijing Municipality
National high-tech enterprise certification
ISO9001/14001/OHSAS18001 quality, environment, occupational health and safety management system certification
A creditable & reputable enterprise of Beijing
Professional contracting qualification for environmental protection projects
Operation qualification for environmental pollution control facilities



Patents of Our Own Intellectual Property

An advanced treatment process for oily sludge: 201010113190.X (invention)
A treatment process for oil well fracturing flowback fluid: 201020113164.7 (invention)
A pretreatment process for the oily waste water of refining and coal chemical industries: 201210248402.4 (invention)
An oily waste water purification unit and a system comprising this unit: 200720169462.19 (utility model)
An upgraded waster water recycle and treatment unit: 201020117740.0 (utility model)
An integrated multi-functional unit for activated sludge system: 201020117749.1 (utility model)
A multi-functional conditioning tank for the pretreatment of oily water: 201220423307.9 (utility model)
A method and system recovering the water vapor and thermal energy from cooling towers: 201310300947.X (invention)



BUSINESS SCOPE



Design and Research Institute

Tasks and functions



Participate in the formulation and implement company's technical development strategy, technical innovation and technology transfer

Market prospects of the D&R of new technology new product new technology new material.

Application of advanced scientific and technological achievements integrated and secondary development, establish long-term stable cooperative relations

Training highly qualified technical and management personnel to the company

Beijing OTC has an excellent team of R & D capabilities, cooperation with universities and research institutions.

According to the company's development strategy and market demand, to provide advanced technology and services, and to make technical reserves.



M

anufacturing base

Manufacturing base is located in daqing city hi-tech development zone.

Construction area of 20,000 square meters, fully equipped, the formation of new product development, machining, inspection, finished product systems.

Beijing OTC follow the principle of "R & D, design,manufacturing,salesand service",attaches great importance to production and manufacturing capabilities, forming perfect enterprise industry chain



Marketing Center

Marketing center is a knowledgeable capable dedicated team,combining business experience and industry concept

The implementation of the brand and the market development strategy, to consolidate and develop the market at home and abroad

In international business, cooperation and win-win strategic development way,so that he low carbon, energy saving, environmental protection engineering services to the society better

Perfect service system

Adhering to the principle of customer-focused service. Constantly improve the service system and process to enhance service, providing services of the timeliness and convenience

Pre-sale service

Pre-sale service
Problem diagnosis
Assessment of energy consumption

Sale service

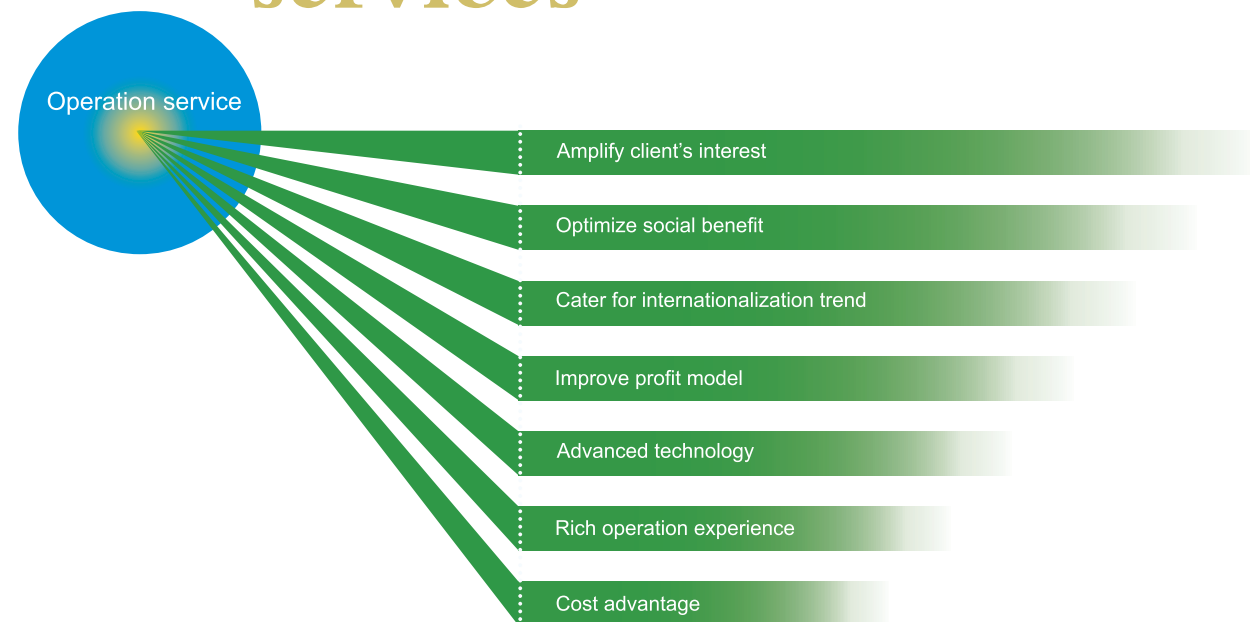
Scheme
Equipment selection
Project implementation

After-sale service

Technical training
Software upgrades
Project value-added services
After-sale technical support



Operation services



Provides characteristic, differentiation, personalized, comprehensive service. Hosting operating model, realize the win-win situation.

Owning environmental operation qualification and a highly qualified operation service team, Beijing OTC is capable of providing professional site technical service, equipment and technical system commissioning service, operation support service and after-sale service support.

We operate in good faith. Our solid and practical operation style has not only won approval and praise from many professionals engaged in the same trade and all our clients, but also has set up a good reputation and market image in domestic and oversea oilfield re-injection water markets.

Our operation service concept has switched from providing simple technical service to providing characteristic, differentiated, customized and comprehensive service. We have started our operation service in petroleum and petrochemical industries.

With our professional engineering construction and system operation service, client's system operation cost can be reduced efficiently. We have distinguished ourselves from general engineering construction management companies by organizing professional team to provide reimbursable managed operation service. By extending our service field from engineering construction to system operation after commissioning, our business scope is keeping on extending.

Beijing OTC can operate the oilfield water injection system after its commissioning according to a managed operation contract signed with our client. By outsourcing professional operation service, our client can obtain highly efficient operation at a low cost.

With increased utilization efficiency of oilfield re-injection water as the objective, Beijing OTC has created the model of green production and realized the maximization of economic and social benefits by overall planning, shortening process flow, minimizing repeated construction and resource consumption and improving the operation efficiency of water treatment system



PROFESSIONAL

Improve the stability and reliability of client's water treatment system with our professional service

Fixed investment on the water treatment in petroleum and petrochemical industries is tremendous, more than tens of billions RMB Yuan. Water consumption is great in daily production and operation. Numerous serious consequences such as production shutdown caused by water outage incidents due to the abnormalities in re-injection water and waste water treatment systems will bring great loss to enterprises. And so, stability and reliability of the water treatment system is of great importance.

With the professional operation provided by specialized personnel who are fully responsible for the whole system, stable and reliable operation of the system can be ensured, and problem occurrence probability and problem solution cost can be greatly reduced.



AS A WHOLE

Increase the construction and operation effect of client's water treatment system by integrated planning

After the finish of system construction, we will continue to provide managed operation service and be responsible for the entire system and all facilities. For this reason, we will pay great importance to equipment quality and service life at the stage of equipment procurement, and the maintenance cost during operation period will be lowered down.



ENVIRONMENTAL PROTECTION

Ensure client's environmental standard conformance with our professional managed operation service With economic development, our country is intensifying continually the environmental protection, and environmental policies are becoming more and more stringent. During the relatively long managed operation period, if more stringent environmental standards are issued and implemented, professional operation service provider will be capable of responding rapidly at a relatively low cost. If the client execute the operation management by itself, and if faced with more stringent environmental requirements, it may fail to respond timely and effectively due to its relatively poor professional competence. In the case of managed operation service, the professional service provider will fulfill its obligations strictly in accordance with contract to meet the governing pollution control standards. Thus, the environmental standard conformance of an enterprise can be ensured.

Product technology

By overall planning for an integrated waste water treatment system throughout the stages of project construction and operation, applying patented and proprietary technologies to water treatment projects, improving project quality continually and reducing project construction and operation costs, Beijing OTC has been granted with many awards and qualification certificates. In the process of project construction and operation, we have developed a characteristic project construction and operation service model suitable for petroleum and petrochemical industries. Because of this, the integral operation level of our company has been improved.

Beijing OTC is capable of providing real time, highly efficient and high quality waste water treatment solution package and service in the areas of equipment manufacture, operation, management, maintenance & repair, process design, project management, process control, team building and cost control.



1

SSF Waste Water Purification Technology and Innovative Application

Application

Oilfield produced water and petrochemical waste water treatment

Technical Features

Short process flow, less footprint and low investment. On-spec treated water quality. Satisfactory filtration, easy operation and high availability. Less multi-stage lift pumps required, no noise pollution and energy conservation. Wide application. Efficient system and stable operation



2

Treatment Technology for Fracturing Flowback Fluid

Application

Fracturing flowback fluid is multiple in types, complicated in composition and high in viscosity. The residual fracturing fluid discharged from operation contains guanidine gum, formaldehyde, hydrocarbon and various additives

Technical Features

Oil removal efficiency is higher than 90%, and SS removal efficiency is higher than 95 %. Less equipment, low power consumption, simple process, efficient and energy conservative. Low treatment cost due to the integration of hydrolytic acidification technology with SSF technology.



3

Treatment Technology for Oilfield Polymer-Bearing Waste Water

Technical Features

Short reaction time and sufficient reaction
Strong oxidizability. The polymer is liable to have open-chain cracking.
Short process flow and less footprint
Low chemical consumption and low operation cost
Stable, on-spec. and satisfactory treatment result
Easy, safe and practical operation, and convenient for management



4

Biotreatment Technology for Oilfield Produced Water Discharge

Beijing OTC is one of the earliest companies introducing and mastering the bio-contact oxidation technology for oilfield produced water treatment. The biotreatment technology (including the bio-contact oxidation) and packaged industrial biotreatment equipment provided by it have been widely applied to domestic and oversea oilfields. With this technology, various dissolved organic substances can be degraded effectively.

Process Features

Improved outlet water quality by employing the biological acclimation device, which can maintain the activity and quantity of biological system microflora.
Reduced operation cost of treatment system and improved impact resistance of activated sludge by enhancing the flocculation effect of activated sludge and increasing the quantity and diversity of microbes.



5

MVR & PF-MVR

Application

Applicable to the evaporation and crystallization of various high salt waste water/material.

Technical Features

Remarkable energy conservation effect. The energy consumption is about 1/3-1/5 of a conventional evaporator, and so the operation cost is greatly reduced. No demand for fresh vapor, cooling circulation water and provision of cooling tower. Because of this, water and electricity consumption and high maintenance cost is greatly reduced. Compact construction, stable operation and high level of automation. Low temperature evaporation. Low temperature evaporation can be realized because the evaporation can occur at a nearly vacuum state.
High ROI. Although the preliminary investment at early stage is relatively high, the ROI for most projects is high. In most cases, it takes only 1.5-2 years (not more than 3 years) to recover the total investment. Zero discharge of industrial waste water. With this technology, industrial waste water can be recycled.



6

Treatment Technology for Petroleum Refining Waste Water

Application

The reinforced pretreatment of oil refining waste water biotreatment system can substitute the conditioning tank, 2-stage oil interception and 2-stage air flotation unit. To serve as the pretreatment for various membrane treatment units: oil, iron and SS removal (to reduce the turbidity).Applicable to the advanced treatment of waste water treatment system.Applicable to the dehydration of oily base sediments, scum and residual activated sludge produced during refinery waste water treatment.Applicable to the treatment of circulation water to remove oil and SS.

Technical Feature

Short process flow, simple and reliable: The residence time of the whole process is about 40 minutes. Low investment and operation cost, and no replacement of filter media.No complicated backwash process and PLC control Satisfactory purification effect (oil \leq 10mg/L, SS \leq 10mg/L).Small footprint.



8

Solution to Oily Sludge Reduction and Recycling

During the exploration and production of oilfields, there is much oil sludge dropped onto the ground of wellsites. During the waste water treatment in petroleum refining and oil gathering and transportation process, oily sludge, oily base sediment and oil sludge inside service pipelines will be generated.

Technical Feature

Widely applicable to municipal treatment and the treatment in food, petrochemical and papermaking industries Continuous and automatic operation and not liable to have plugging Low operation cost and no secondary pollution Good mobility and big handling capacity Less investment.



7

Treatment Technology for Oily Sludge Reduction

The great amount of oily sludge produced during the waster water treatment at oilfield CPFs is currently treated by natural drying, plate-and-frame press filter and horizontal screw centrifuge. This kind of treatment process features large footprint, high working intensity and poor dehydration effect.

Process Flow of Treatment

The treatment process flow of our integrated sludge dehydration unit is simple, the treatment cost is low and the sludge dehydration effect is satisfactory.



9

Technology for CO2 Enhanced Oil Recovery

As the wold grapples with the twin challenges of reducing dependence on foreign energy sources and reducing emissions of greenhouse gases, carbon dioxide (CO2) enhanced oil recovery (EOR)can help us meet both of the challenges mentioned above.Prospects EOR technology has become an effective way to achieve a win-win economic development and environmental protection,resource utilization and increase greenhouse gas hydrocarbon recovery with a bright future.

Technical Feature

Reduced CO2 emissions into the atmosphere—lower pollution
Increased oil production
Economically attractive return on investment

Typical case



CASE
SHOW



Liu-17 Waste Water Station,
Oil Production Base-3, Huabei Oilfield



Yong-15 Water Injection Station,
Yongning Oil Production Base,
Yanchang Oilfield



Pu-3 CPF Waste Water Treatment Phase II,
Oil Production Base-7, Daqing Oilfield



Dabei Station Re-injection Water
Refined Treatment, Hekou Oil Production Base,
Shengli Oilfield



Sludge & Waste Water Treatment,
Jiujiang Petrochemical Complex



Fanjia Station Waste Water Treatment,
Chunliang Oil Production Base, Shengli Oilfield



Tamtsag CPF-1 Fracturing Flowback Fluid
Treatment & Recycling, Mongolia

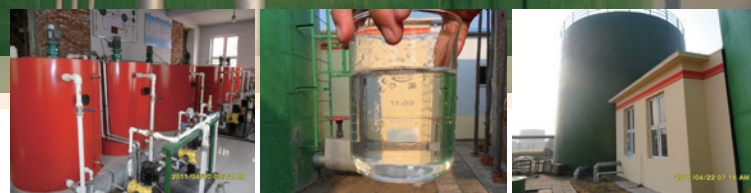


Shu-1 CPF Waste Water Treatment
Station Modification, Shuguang Oil Production
Base, Liaohe Oilfield



TYPICAL CASE 1

Shu-1 CPF Waste Water Treatment Station Modification, Shuguang Oil Production Base, Liaohe Oilfield



General information on raw water: In this waste water treatment station, the 4-stage process of buffering—oil removal by sedimentation separation—air flotation—filtration was used, and the quality of outlet water was unstable and hard to meet the water injection standard despite of its high chemical consumption. In our modification, one oblique plate oil interceptor at the oil removal stage was changed into the SSF unit, and the stage of air flotation was cancelled. Due to our modification, the quality of outlet water at this stage has been improved, making ready for downstream filtration and ensuring the final quality of station outlet water. Moreover, the cancel of air flotation stage has shortened the process flow, and saved operation cost.

Time of commissioning: Dec. 2010	Model of equipment: SSF-400C (1 set)
Capacity of treatment: 8000m³/d	Source of inlet water: Outlet water from the 3000m³ sedimentation tank



TYPICAL CASE 2

Press Filter Filtrate Treatment, Jiujiang Petrochemical Complex



General information on raw water: Discharge capacity of the biochemical waste water discharge system and activated sludge press filtering system at the oil refining waste water treatment plant of Jiujiang Petrochemical Complex is great. The filtered water enters the conditioning tank directly for circulation inside the whole system. Our design was based on the existing conditions. The requirement for raw water quality is oil less than 200mg/l and SS about 15000 mg/l, and the requirement for outlet water quality is oil less than 30mg/l and SS less than 50 mg/l to prevent impact on the load of biochemical system, especially the impact of oil in water on the microbes and aerator of the biochemical system.

Objective of test: Apply the SSF purification technology to the reinforced pretreatment of inlet water to determine the possibility of substitute for air flotation unit and tank-in-tank with the SSF unit to shorten the water treatment process flow and ensure the long term and stable conformance to standards of the biochemical treatment.

Time of commissioning: Sep. 2011	Model of equipment: SSF-30C (1 set)
Capacity of treatment: 600m³/d	Source of inlet water: Filtrate from the sludge press filter
Design outlet water quality: Oil≤20mg/L, SS≤50mg/L	Actual outlet water quality: OIL≤10mg/L, SS≤30mg/L



TYPICAL CASE 3

Fracturing Flowback Fluid Treatment Station, Bei-28 Operation Area, Hulun Buir Branch, Daqing Oilfield

Project profile: This is new project. Flowback fluid first enters the oil reception tank of Bei-28 Fracturing Flowback Fluid Station. Slop oil recovered from the top will be sent to the oil unloading point at De-2 CPF. Having subjected to natural degradation and gel breaking inside the tank, waste water will be pumped into the SSF-15B unit for treatment, and the outlet water will be sent to the waste water treatment station at De-2 CPF.

Characteristics of Raw Water

1) Fracturing flowback fluid in this station is complicated in composition and multiple and high in chemical additives. Its major components are high concentration guanidine gum and high molecular polymer. The contents of SRB, sulfide and total iron are high, too. Contents of both total iron and total sulphur are about 20mg/L.

2) Fracturing flowback fluid in this station is high in viscosity and emulsification degree. Viscosity of the flowout fluid is generally very high, about 10 ~ 20mPa.s, which feels like paste. Viscosity of the flowback fluid is relatively low. The fracturing flowback fluid to be treated is the mixture of this two kinds of fluid, whose viscosity and SS content is in-between, about 4 ~ 1mPa.s and 60 ~ 90mg/L respectively. Because compound fracturing fluid is used in light oil area, the emulsification is severe. The released flowback fluid is pitch black, viscous and therefore hard to get the water separated out by static sedimentation.

3) On-spec SS content requirement is hardest to meet at this station. Due to the complexity of flowback fluid composition and the uniqueness of the flowback fluid properties, the treatment is hard and challenging.

Time of commissioning: Aug. 2008

Model of equipment: SSF-15B (1 set)

Capacity of treatment: 300m³/d

Source of inlet water: SS≤20mg/L, oil≤20mg/L



TYPICAL CASE 4

Oily Sludge Reduction Treatment Engineering



Project profile: De-2 CPF is located at Bei-28 operation area of Hailar. The treatment capacity of oilfield produced water is 1600m³/d. SSF unit was installed for the purification of suspended sludge, and the treatment effect has been satisfactory. Quality of the outlet water can meet the standard for A3 in SY/T 5329-1994: oil≤3mg/L, SS≤3mg/L and median particle diameter≤2 μm. Sludge, however, has been stacked naturally due to the lack of sludge treatment system, causing certain environmental problem. Since the commissioning of our sludge dehydration system, the dehydration effect has been satisfactory, and reduction of sludge and easy transportation have been realized. Moreover, timely discharge of pollutants out of the sludge can facilitate the stable operation of waste water treatment system.

Location: De-2 CPF Sludge Treatment Station, Bei-28 operation area, Hailar **Name of project:** De-2 CPF Oily Sludge Treatment Process Modification

Model of equipment: Automatic sludge dehydration unit OTCDL202 **Quantity:** 1 **Time of kickoff:** Oct. 2013

Time of commissioning: Mid Nov. 2013 **Treatment capacity of sludge:** 3.0m³/h (water cut 99%, solid 1%)

Treatment capacity of waste water: 1600m³/d **Quality of outlet sludge:** Water cut ≤80%, solid recovery rate≥92%

Oversea Market



Beijing OTC has developed a complete international development strategy, and explored overseas markets actively. We have completed successfully many projects in the Middle East, Mongolia, Kazakhstan, Sudan and the U.S. We have enjoyed good fame worldwide with our high quality products and reliable operation service. Thanks to years of accumulation, we have become an exemplary enterprise in the trade of oilfield re-injection water treatment, and petroleum and petrochemical oily waste water treatment. Development of overseas markets fully complies with our strategic planning. With the gradual realization of international strategic layout, development of our overseas business has entered a development stage at high speed. While doing projects with CNPC and Sinopec, we have established close cooperation with many countries and trained a team of highly qualified international talents. Our SSF technology has been widely accepted in the field of oilfield re-injection water treatment, and will substitute conventional technologies and become one of the predominant technologies in overseas markets in the future. Based on our competitive strategy developed for SSF technology, we will give full play to the existing technical strength, proven experience, creditable brand and rich experience to speed up technical updating and upgrading by learning continually from accumulated engineering experience and practices. While consolidating our leading position nationwide, we will achieve advanced level worldwide, promote the continuity, serialization and standardization of overseas markets by fully utilizing our overseas sample projects available, and create a well-known brand image by implementing thoroughly our brand strategy and patented product strategy. In order to obtain bigger international market shares, we will promote our business development with completed projects, cultivate continually new clients and develop potential client base.



OVERSEAS CASE

**Tamtsag CPF-1 Waste
Water Treatment Station,
Mongolia**

Project profile: This is a new project. The incoming water first enters the oil skim & buffer tank for oil removal and buffering. It is then pumped into the SSF unit by a lift pump for purification. After that, it flows into the variable section filter tank complete together with the SSF unit for filtration. The filtered water is piped into the clean water tank, and then pumped to the water injection station by an export pump. Purifier and flocculant are added at inlet of the lift pump, and coagulant aid is added at outlet of the lift pump.

Time of commissioning: Aug. 2010 | **Model of equipment:** SSF-40B (2 sets) | **Capacity of treatment:** 1600m³/d

Quality of outlet water: Grade A3 in SY/T5329—94, i.e. oil ≤ 5mg/L, SS ≤ 3 mg/L and median particle diameter ≤ 2 μm



OVERSEAS

CASE

2

Halfay Project Surface
Facility Phase Two CPF-1
WT, Iraq

Project profile: CPF-1 is located in the Halfay oil field, Missan Governorate, south of Iraq. The design oil production rate for phase I is 70,000BOPD, and the maximum oil production rate will be 100,000BOPD. Produced water will enter the oil skim & buffer tank for oil removal and buffering, and then be pumped into the SSF unit by a lift pump. The outlet water will be piped into the clean water tank, and then pumped to the water injection station by an export pump. Purifier and flocculant will be added at inlet of the lift pump, and coagulant aid will be added at outlet of the pump.

Time of commissioning: In progress	Model of equipment: SSF-80C (2 sets)
Design treatment capacity: 80m³/h	Max. instantaneous treatment capacity: 96 m³/h



OUR SERVICE
IS ALWAYS
CLIENT DEMAND
ORIENTED

Main performance

CNPC



Hu-1 CPF Produced Water Treatment, Bei-301 Operation Area, Hulun Buir Branch, Daqing Oilfield
Fracturing Flowback Fluid Treatment, Bei-28 Operation Area, Hulun Buir Branch, Daqing Oilfield
Pu-3 CPF Waste Water Treatment Station Modification, Oil Production Base-7, Daqing Oilfield
Pu-1 CPF Produced Water Treatment Station Expansion, Oil Production Base-7, Daqing Oilfield
De-1 CPF Modification, Bei-16 Operation Area, Hulun Buir Branch, Daqing Oilfield
De-2 CPF Modification, Bei-28 Operation Area, Hulun Buir Branch, Daqing Oilfield
Wudong CPF Waste Water Treatment, Hulun Buir Branch, Daqing Oilfield
Hu-1 CPF Waste Water Treatment Station Modification, Hulun Buir Branch, Daqing Oilfield
Su-1 CPF Oily Sludge Treatment Technology Upgrading, Hulun Buir Branch, Daqing Oilfield
De-2 CPF Oily Sludge Treatment Technology Upgrading, Hulun Buir Branch, Daqing Oilfield
Tazhong Waste Water Treatment Station Modification, Tarim Oilfield
Tamtsag CPF-1 Fracturing Flowback Fluid Treatment & Recycling, Mongolia
Tamtsag CPF-1 Waste Water Treatment Station, Mongolia
Yang-16 Station Produced Water Biotreatment (On-spec. Discharge), Dagang Oilfield
Kou-3 Station Produced Water Biotreatment (On-spec. Discharge), Dagang Oilfield
Liu-17 Waste Water Station, Oil Production Base-3, Huabei Oilfield
Shu-1 CPF Waste Water Treatment Station Modification, Shuguang Oil Production Base, Liaohe Oilfield
Waste Water Treatment Station Modification, Nanjishan Oilfield, Qinghai Oilfield Company
Su-1 CPF Waste Water Treatment Station Modification, Su-131 Operation Area, Hulun Buir Branch, Daqing Oilfield
Pu-3 CPF Waste Water Treatment Phase II, Oil Production Base-7, Daqing Oilfield
North CPF Evaporation Pond Waste Water Treatment & Recycling, Shanan Operation Area, Zhundong Oil Production Base, Karamay Oilfield
Refinery Sludge Dehydration SSF Application Pilot Test, Daqing Petrochemical

SINOPEC



Yong-15 Water Injection Station, Yongning Oil Production Base, Yanchang Oilfield
Yong-941 Water Injection Station, Yongning Oil Production Base, Yanchang Oilfield
Yongjin-352 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
Yongjin-403 Water Injection Station, Yongning Oil Production Base, Yanchang Oilfield
Yeshan Station, Yongning Oil Production Base, Yanchang Oilfield
Xuzhuang Waste Water Treatment Station, Yongning Oil Production Base, Yanchang Oilfield
Liugou Waste Water Treatment Station, Yongning Oil Production Base, Yanchang Oilfield
Baiyangshuwan Waste Water Treatment Station, Yongning Oil Production Base, Yanchang Oilfield
Yixigou Waste Water Treatment Station, Yongning Oil Production Base, Yanchang Oilfield
Well Zhou-51 Waste Water Treatment Station, Yongning Oil Production Base, Yanchang Oilfield
Fang-2 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
Shun-5 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
Yongjin-42 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
Shuang-689 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
Yongjin-113 Station, Yongning Oil Production Base, Yanchang Oilfield
Equipment Procurement for Zhangchaiyaozi Oil Area Surface Facilities, Yongning Oil Production Base, Yanchang Oilfield
Ping-250 Station Flushing Fluid Treatment, Xingzichuan Oil Production Base, Yanchang Oilfield
Wang-126 Station Flushing Fluid Treatment, Xingzichuan Oil Production Base, Yanchang Oilfield

YANCHANG PETROLEUM



Yong-15 Water Injection Station, Yongning Oil Production Base, Yanchang Oilfield
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Yongjin-352 Dehydration Station, Yongning Oil Production Base, Yanchang Oilfield
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OVERSEAS

Tamtsag CPF-1 Waste Water Treatment Station, Mongolia
Halfay Project Surface Facility Phase Two CPF-1 WT, Iraq

IRON & STEEL INDUSTRY

Waste Water Treatment & Recycling, Tiantie Group

LOCAL ENTERPRISES

Pulin Food Co., Ltd., Tanshan
Longxiang Stone Material Co., Ltd., Dongying