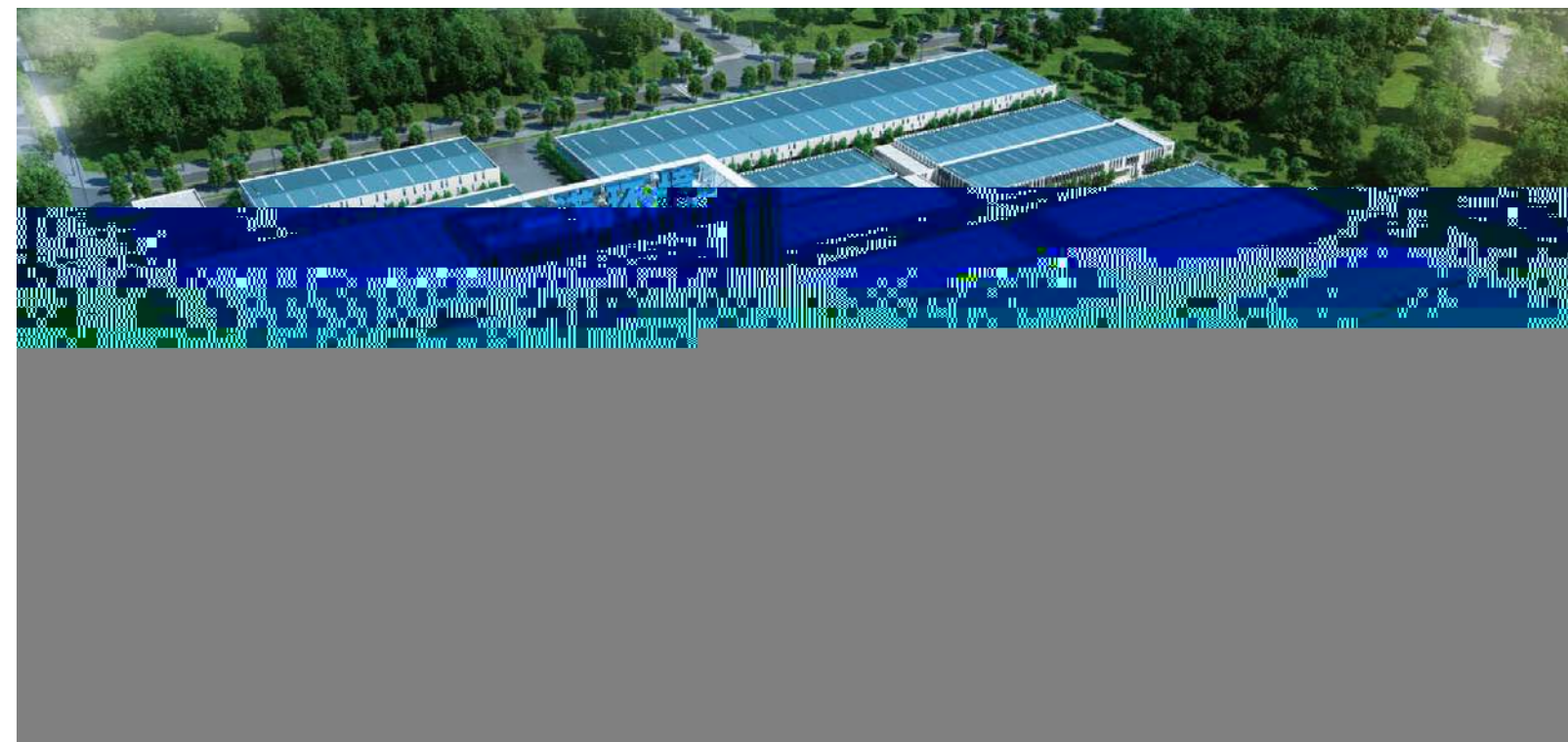




COMPANY BROCHURE



Liaoning Innovation Environment Group Co., Ltd.



01 Company Profile

Company Overview [01] Development History [0н] Business Scope [0п]

Technology R&D [0р] Produc on Workshop [0с]

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02 Product Introduc on

Integrated Wastewater Treatment Equipment [10]

Municipal Water Plant Equipment Integra on [1п]

Leachate Treatment Equipment [н0]

Decentralized Wastewater Treatment Equipment [нн]

Sodium Hypochlorite Disinfec on Equipment [нп]

UED Advanced High-Concentra on Wastewater Treatment Unit [нс]

Livestock and Poultry Manure Resource U liza on Equipment [ну]

Toilet Revolu on Suppor ng Sep c Tank [о0]

Municipal/Industrial Park Wastewater Treatment Plant Construc on [он]

HF Immobilized Microbial Carrier [он]

03 Opera on and Maintenance Services

Entrusted O&M Services for Wastewater Treatment Sta ons [oc]

Emergency Wastewater Treatment Services [от]

Landfill Leachate Treatment Services [oy]

Treatment Services for “Three Highs” Wastewater [оф]

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[40]

05 IESC Cloud Pla orm

[44]

06 Marke ng and Collabora on

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COMPANY PROFILE



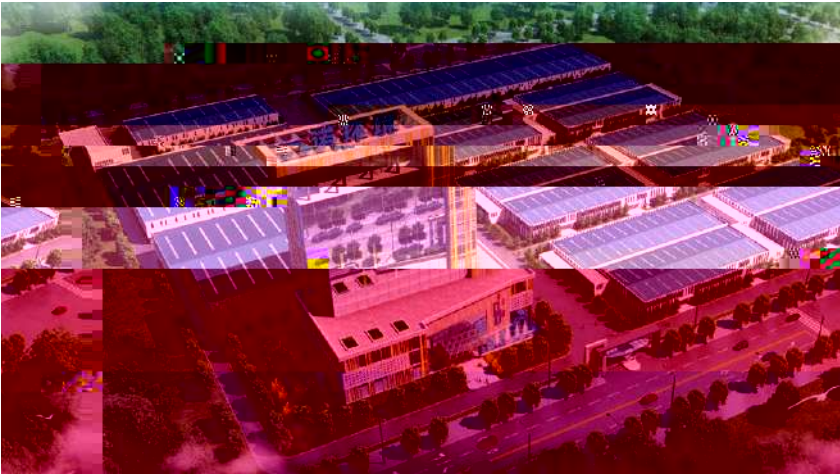
Learning · Innova on · Responsibility



To be a faithful guardian of the ecological environment



To build the largest one-stop comprehensive pla orm for ecological environment products and services in China



Liaoning Innova on Environment Group Co., Ltd. is located in Beipiao City, Liaoning Province—the hometown of the “Dragon Bird”—within the Yinuo Environmental Industrial Park. The park, independently funded and constructed by Liaoning Innova on Environment Group Co., Ltd., covers a total area of нт0 mu (approximately 1y0,000 square meters), with a planned construc on area of 1н0,000 square meters.

Focusing on the R&D of advanced environmental protec on technologies and the manufacturing of integrated environmental equipment, Liaoning Innova on Environment has developed a “y+n” business model—eight major product series and four major opera on and maintenance services. The company boasts the most comprehensive product lines in the environmental governance field in China, and operates the largest single-site produc on base na onwide. It has established a leading one-stop pla orm for environmental governance products and services in terms of scale and completeness of o erings.

The eight major product lines include: Integrated wastewater treatment equipment, Municipal water plant equipment integra on, Leachate treatment equipment, Decentralized wastewater treatment equipment, Sodium hypochlorite disinfec on equipment, UED advanced high-concentra on wastewater treatment units, Livestock and poultry manure resource u liza on equipment, Sep c tanks suppor ng the “Toilet Revolu on” ini a ve. The four major opera on and maintenance services include: Entrusted opera on and maintenance services for wastewater treatment sta ons, Emergency wastewater treatment services, Leachate treatment services for landfill sites, Treatment services for “three-high” wastewater (high toxicity, high salinity, high concentra on)

With the mission of contribu ng to a “Beau ful China and Green Ecology,” Liaoning Innova on Environment is the first company in China to propose and implement the concept of a rural carbon cycle. By integra ng domes c and interna onal R&D resources and introducing advanced technologies, the company strives to support the construc on of a beau ful China and serve as a faithful guardian of the ecological environment.

of accumulated exper se in technologies	т00+ Professionals Skilled technical personnel providing one-stop services	1н0,000 mч Produc on area for 11 major product series	Advanced produc on and processing equipment from domes c and interna onal sources
о Major Technical Centers Located in Beijing, Jinan, and Shenyang	of laboratory and tes ng equipment, including an in-house water quality tes ng center	п1 Cer fica ons Comprehensive qualifica on and compliance assurance	п Strategic Partners Supported by leading partners: DuBang, Dongli, Ronghua, XPURE, and Veolia



DEVELOPMENT HISTORY

2004

2012

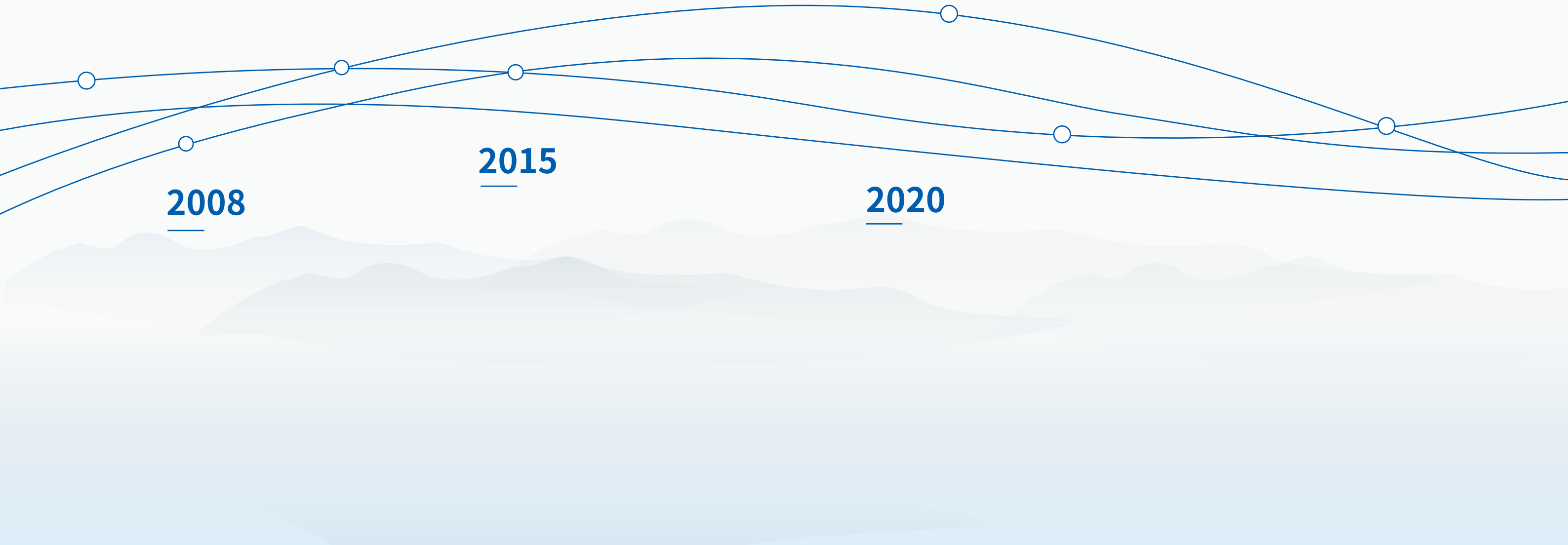
2018

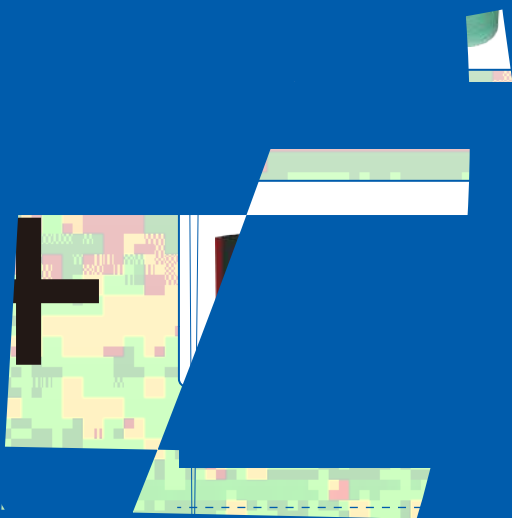
2024

2008

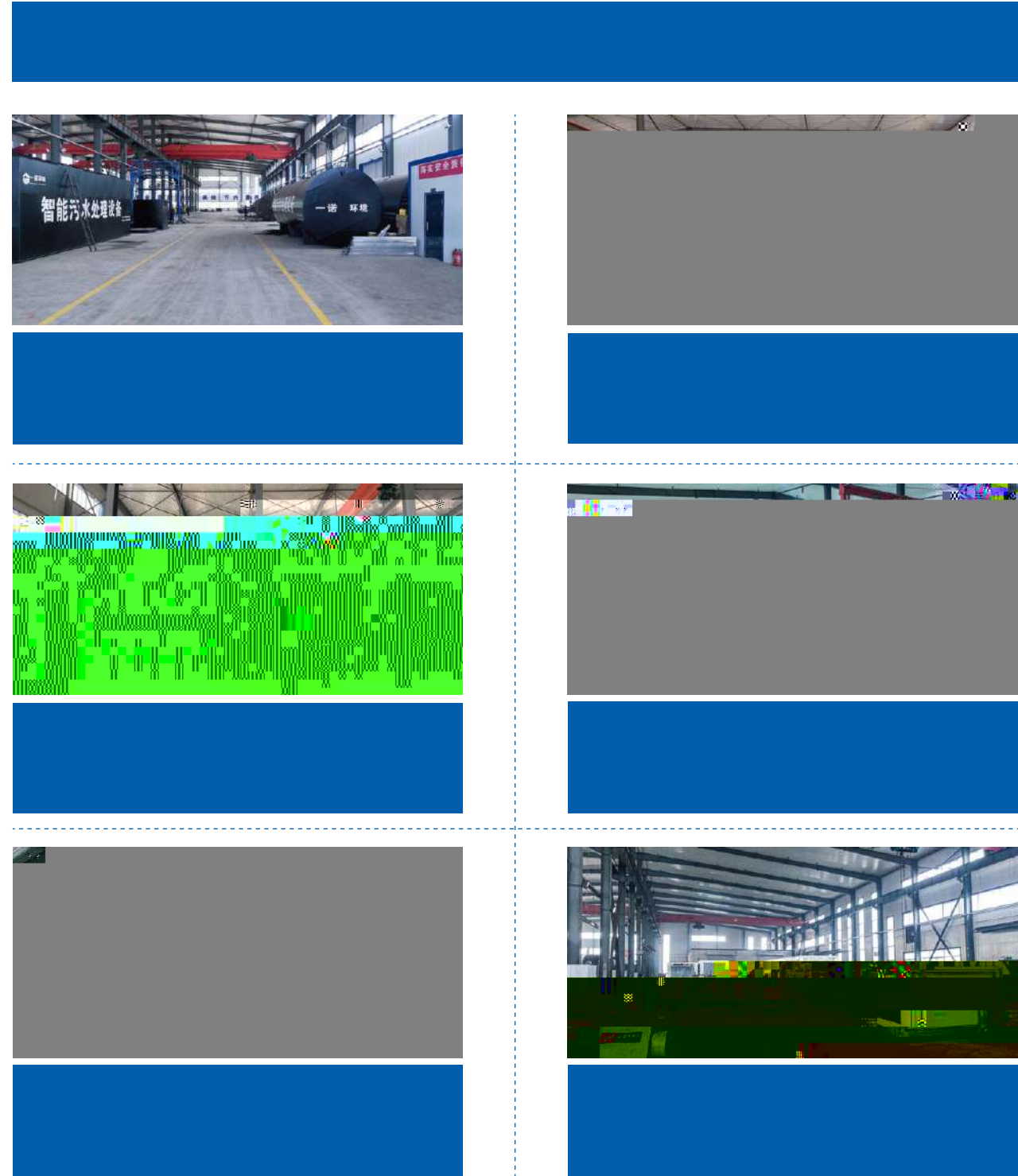
2015

2020

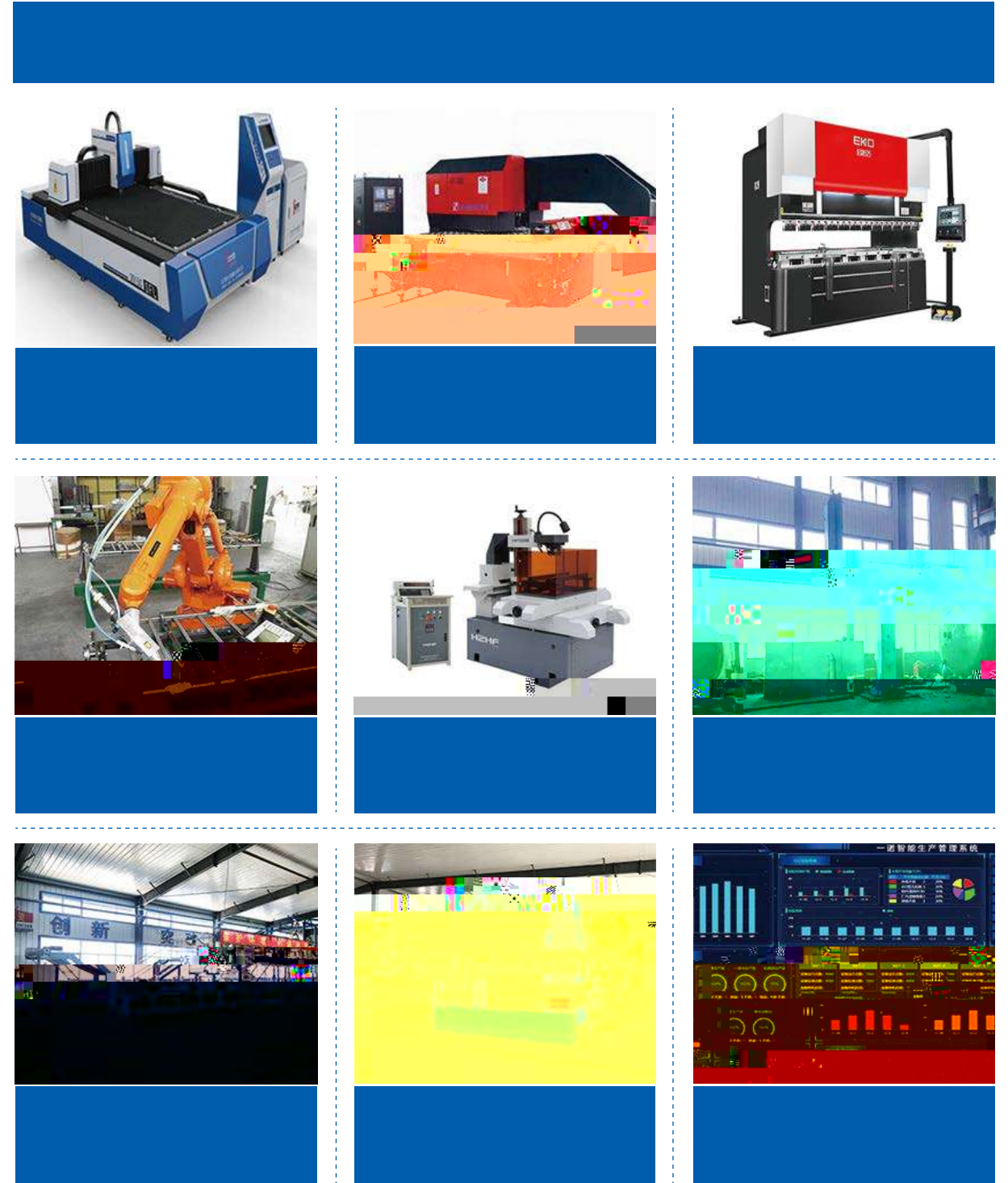


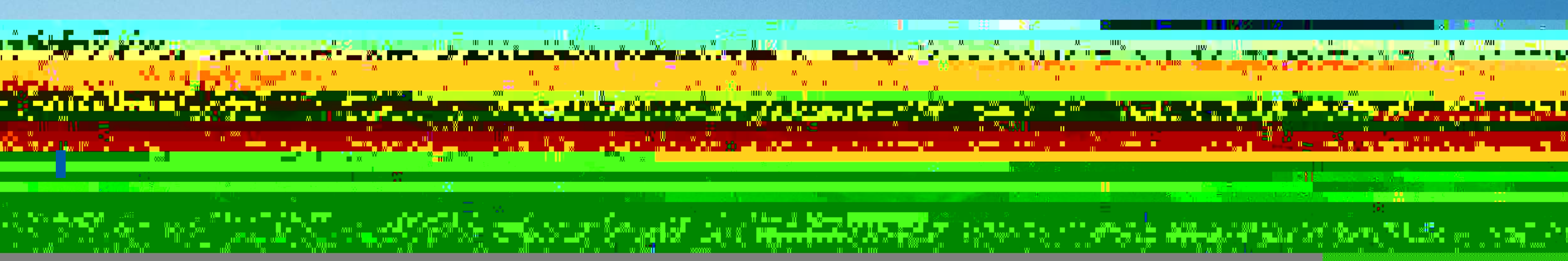


WORKSHOP



DIGITAL INTELLIGENCE





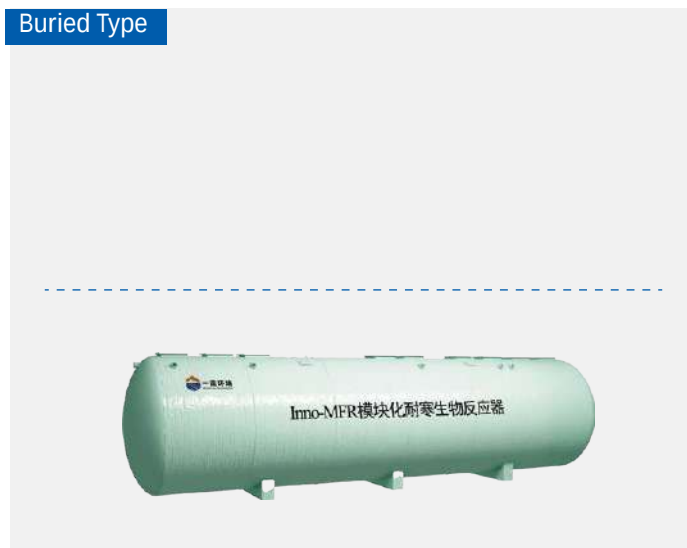


Integrated Sewage Treatment Equipment Inno-MFR Modular Cold-Resistant Bioreactor

Above-Ground Type



Buried Type



Standardized Supporting Equipment



1. Regulating Tank

Due to the characteristics of domestic sewage—such as significant fluctuations in water quality and quantity—a regulating tank is set up to ensure the continuous and stable operation of the treatment system. It is used to regulate water flow and homogenize water quality. The designed hydraulic retention time is 1–1.5 hours.

The regulating tank is equipped with a submersible sewage pump and a reflux mechanism to ensure stable sewage flowing to the subsequent biological treatment system, reducing the impact load caused by water volume fluctuations.

To prevent sediment buildup in the tank, a submersible mixer or perforated pipe is used for agitation.

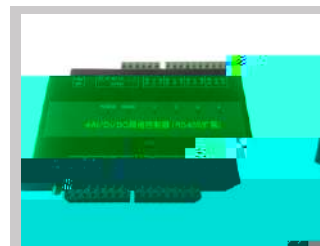
Material & Structure: The main structure is made of Q235-A carbon steel with internal and external anti-corrosion treatment; fiberglass-reinforced plastic (FRP) is also optional.



n. Equipment Room

The equipment room is available in two types: integrated and separate. The integrated type is made of anti-corrosion carbon steel and is built together with the main equipment. The separate type is a prefabricated above-ground building that can be custom-designed based on on-site conditions.

By integrating the blower, water pump, dosing system, etc., into the equipment room, land usage is minimized, and daily maintenance becomes more convenient. Depending on project needs, insulation, heating, ventilation, and lighting systems can be added.



o. IoT Controller

The “IoT Controller” is equipped with an ARM 64-bit CORTX-Mn high-performance processor and the latest NB-IoT communication technology, along with advanced sensing and control technology. It accurately and efficiently uploads operational and sensor data to the cloud server, enabling 24/7 real-time online monitoring.

It supports multiple network access options including NB-IoT, 4G, 3G, 2G, LORA, and Wi-Fi. Whether the device is installed indoors or in a remote outdoor area, the terminal can connect to the cloud network using the most suitable method, meeting the needs of various user groups.

Four Core Technologies Solving Four Key Challenges

Challenge 1: Low and fluctuating



Challenge n: Highly variable water quality



Challenge o: Unreliable performance



Challenge n: Lack of professional operators, making management difficult



Application Scenarios



Centralized integrated sewage



Domes c sewage treatment in expressway service areas



Sewage treatment at national highway gas stations



Fieldwork station



Hospital sewage treatment



School domes c sewage treatment



Hotel sewage treatment



Military sewage treatment



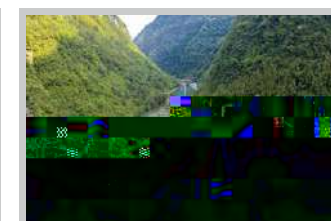
Domes c sewage from industrial



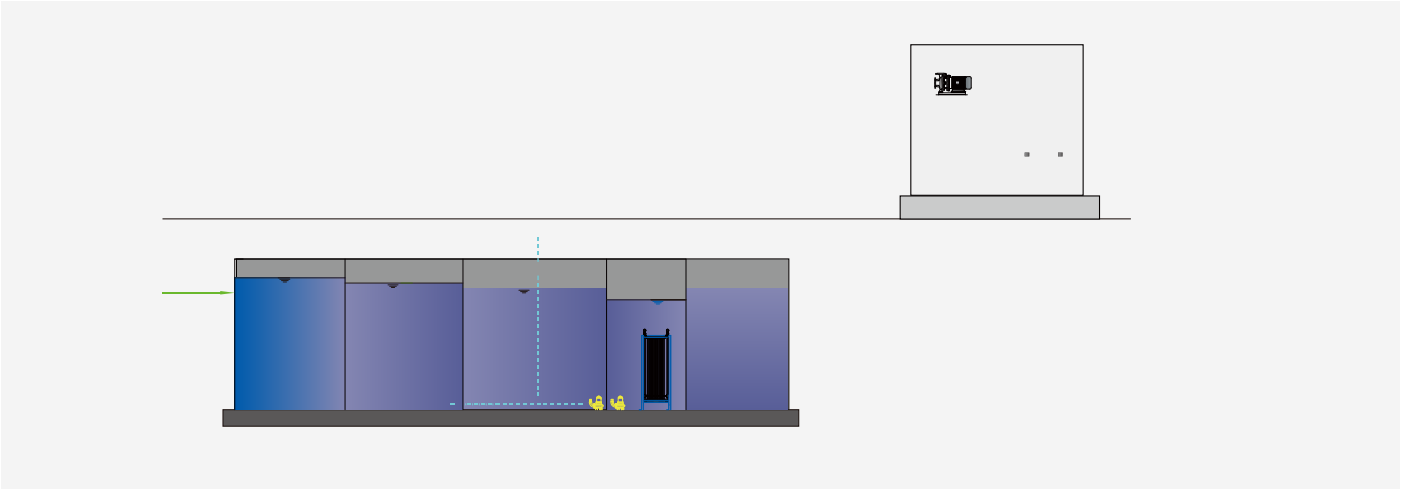
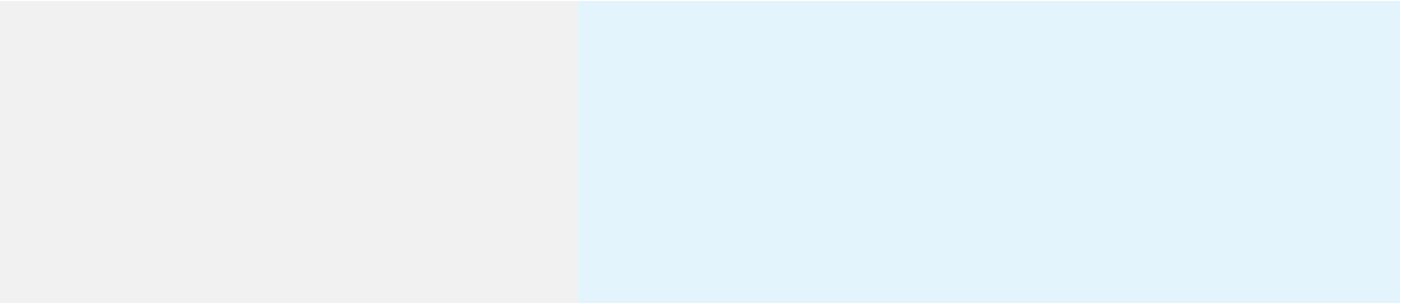
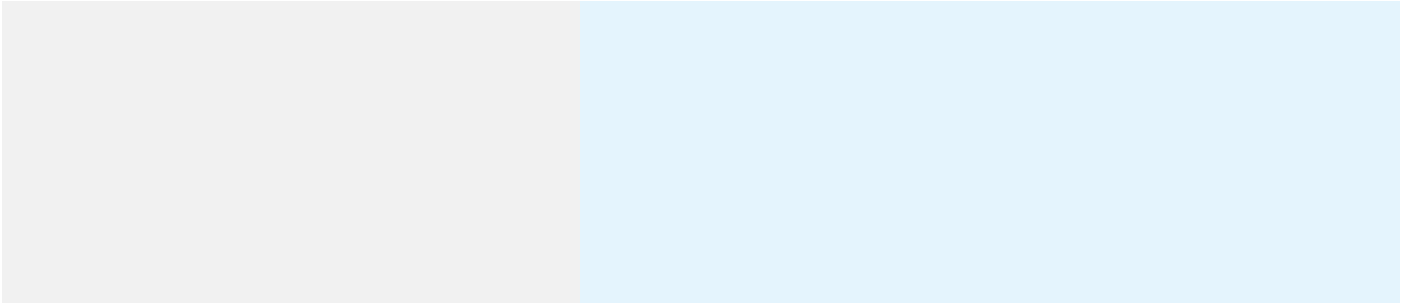
Residential area sewage treatment

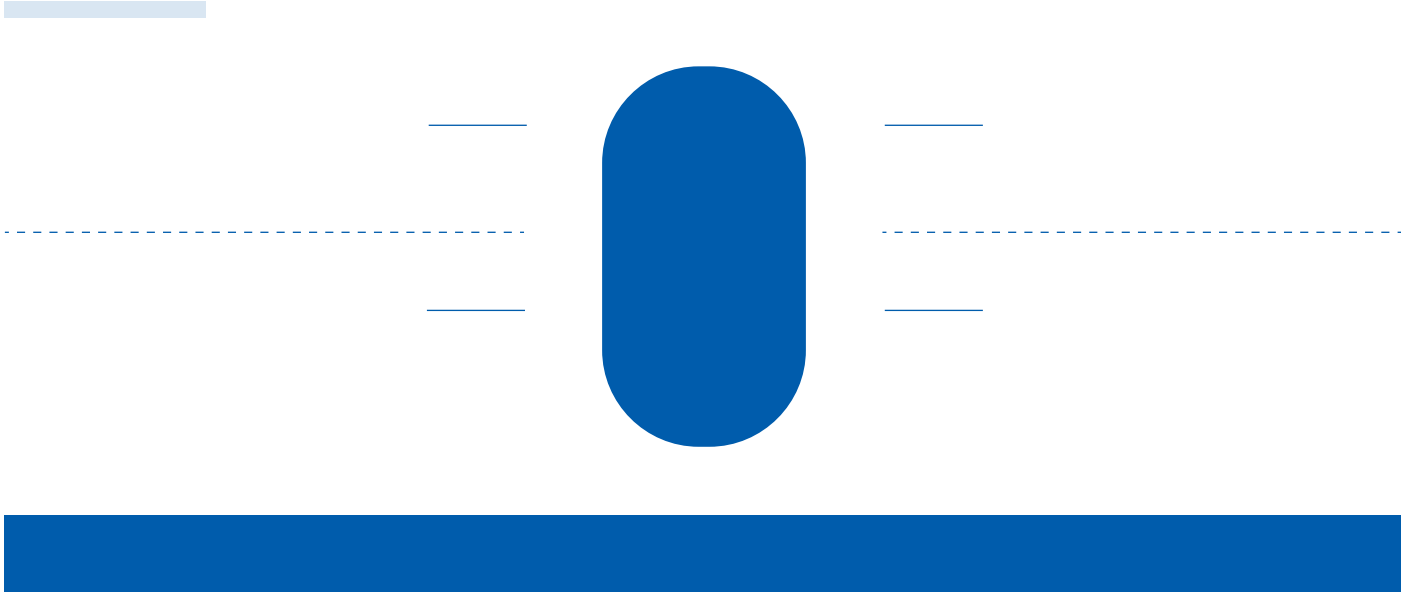
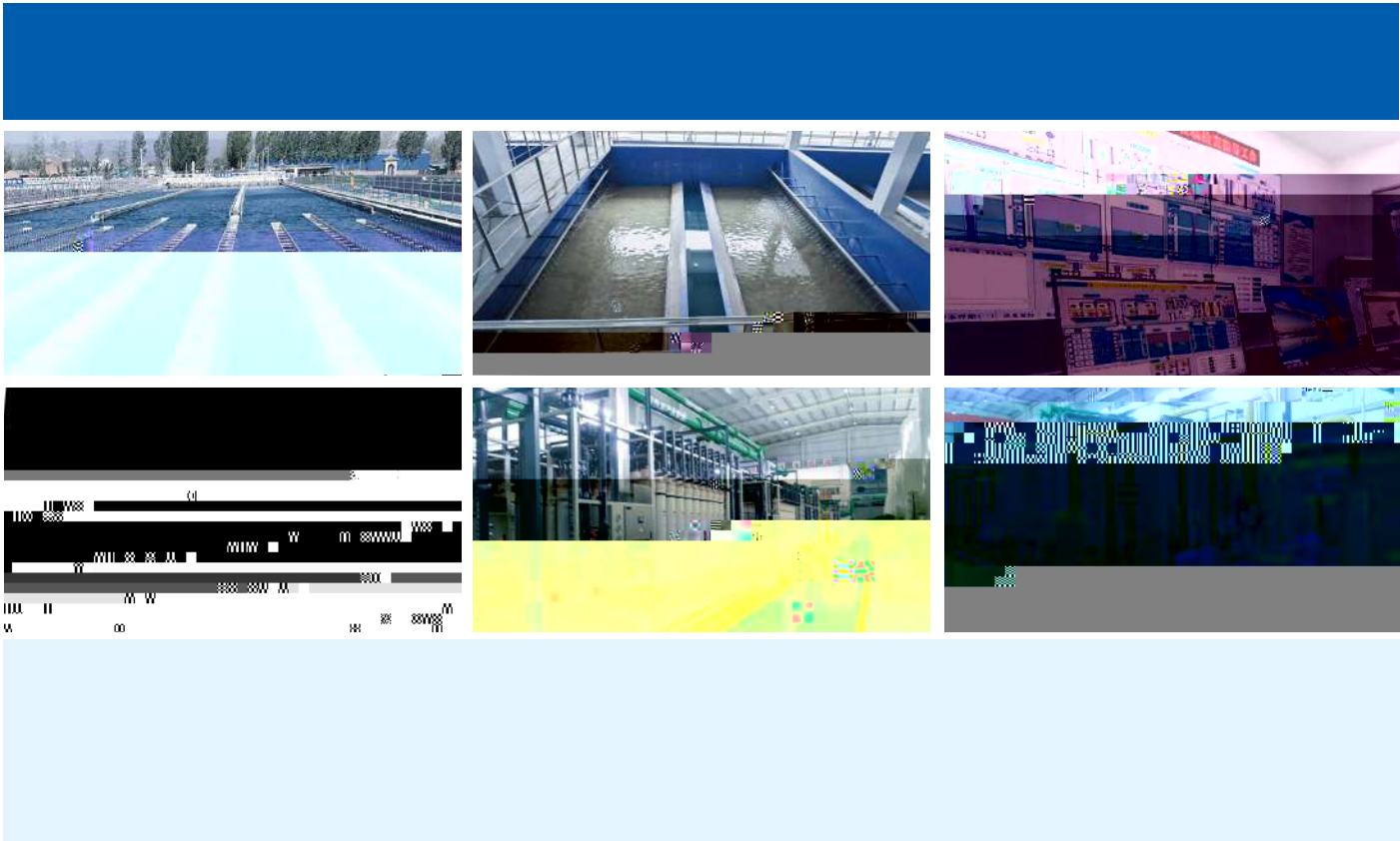


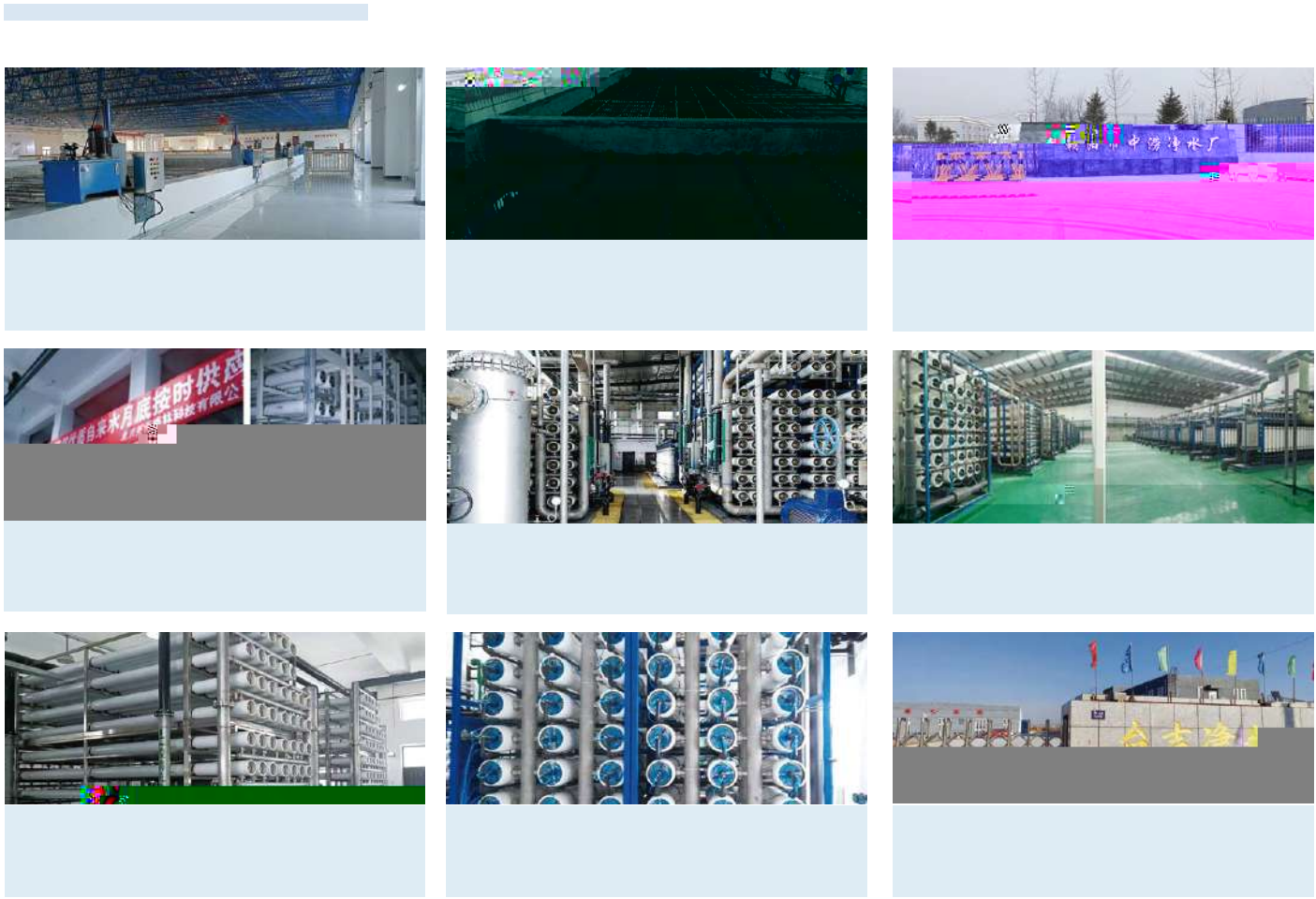
Temporary construction site sewage

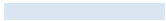
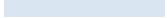
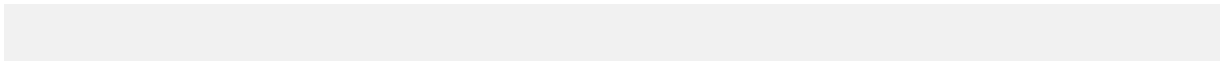
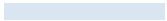
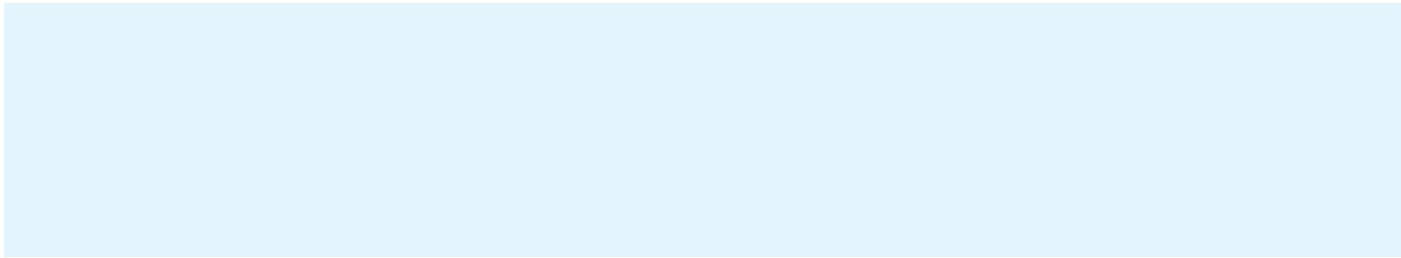


Scenic spot/exhibition sewage

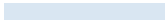






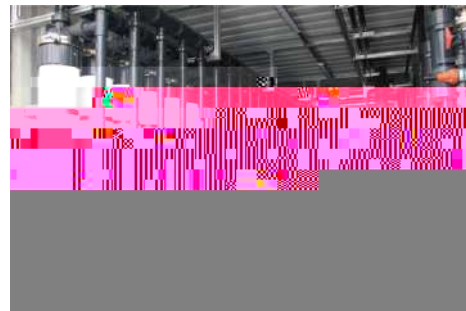


YNJS-1				
YNJS-2				
YNJS-3				
YNJS-4				



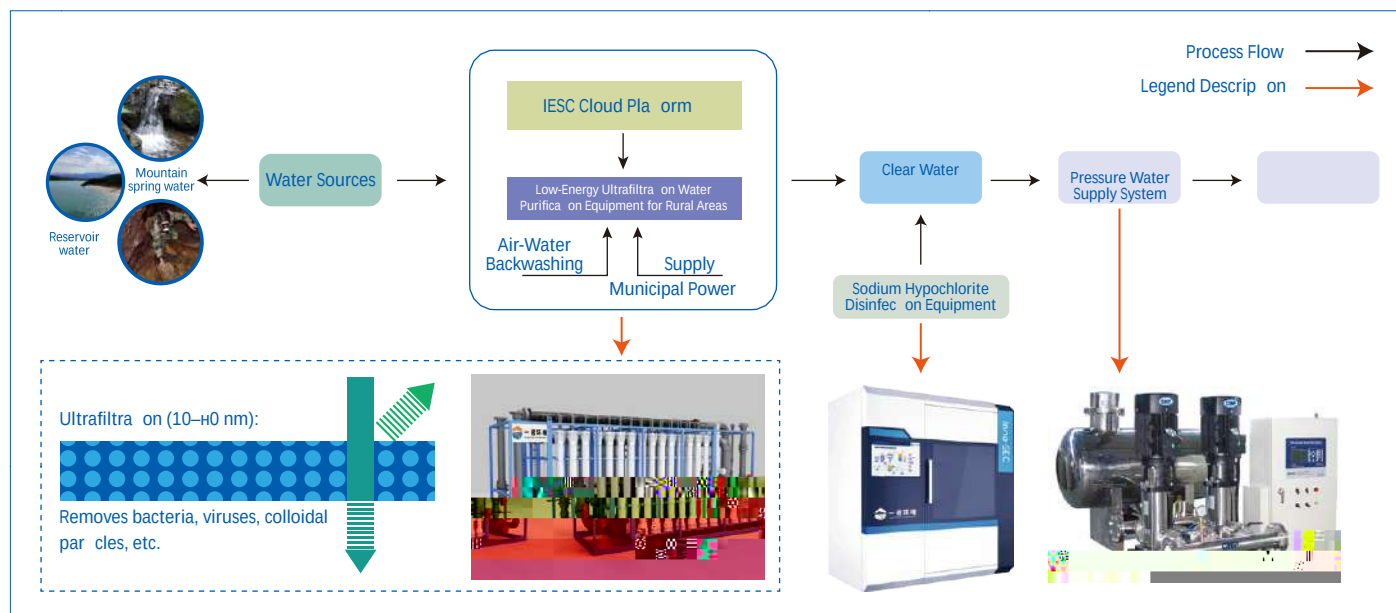
Drinking Water Plant Construction & Equipment Integration 03 – Integrated Safe Drinking Water Purification Equipment

>> Integrated Safe Drinking Water Purification Equipment <<



The company's self-developed integrated safe drinking water purification equipment is centered on our proprietary PVDF ultrafiltration membranes and reverse osmosis membranes. It offers standardized modular water plant solutions—including micro-power ultrafiltration systems for villages and towns, dual-membrane water purification systems for rural areas, targeted contaminant removal equipment, and household purification devices. Equipped with IoT and big data technologies, the system effectively resolves water quality safety issues and remote operation challenges in rural drinking water scenarios.

Process Flow of Micro-Power Ultrafiltration Water Plant for Villages and Towns



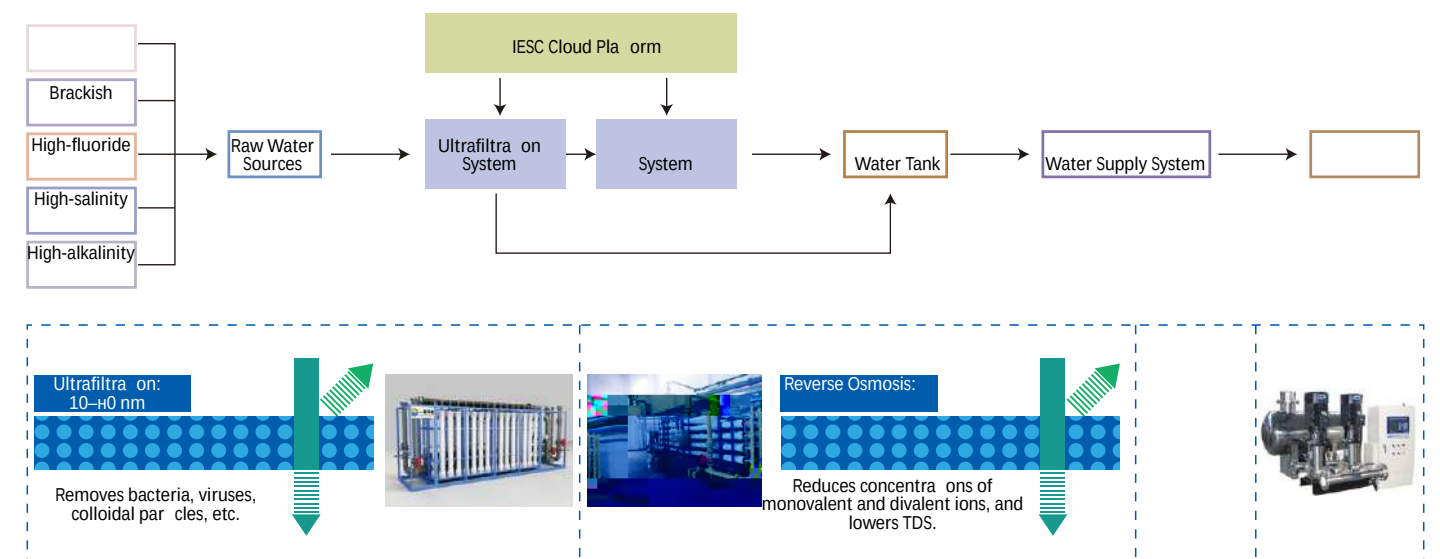
Equipment Advantages

 Direct Utilizes ultrafiltration technology with a bacteria and virus removal rate of up to 99.99%, meeting direct drinking water standards.	 Unattended Operation Applies IoT and big data technologies to enable fully unattended equipment operation.	 Cal-free No coagulants are added during the treatment process.
 Energy Employs siphon technology to reduce power consumption during operation.	 Warranty Five-year warranty for key components including ultrafiltration membranes, pumps, blowers, and sensors.	 Integrated Highly integrated modular equipment with short construction cycles, small footprint, and easy expansion or modification.

Single Contaminant Treatment and Household Water Purification Equipment



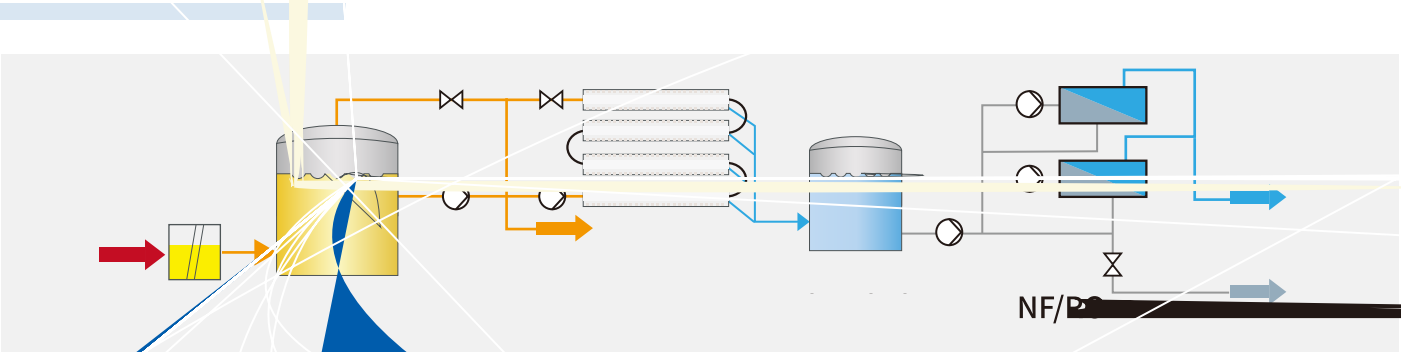
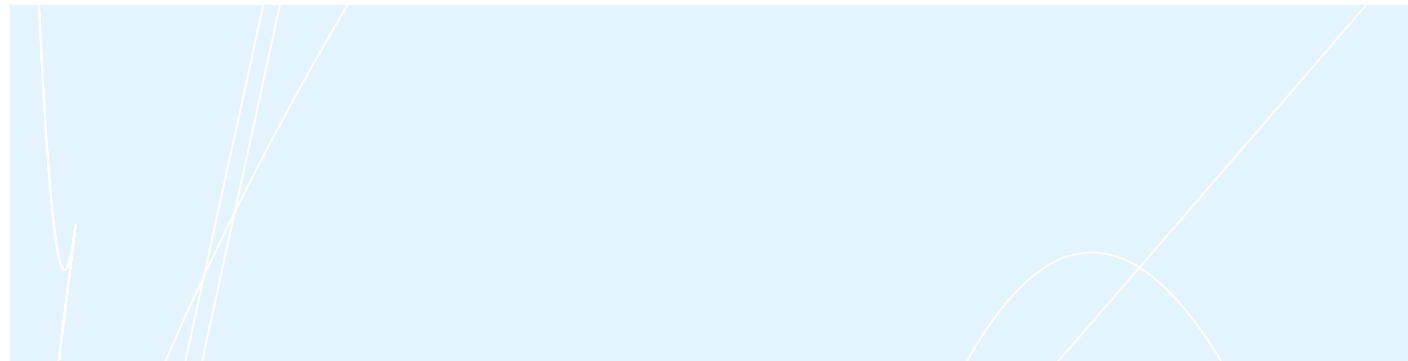
Under-sink household safe drinking water equipment



Full-Process Visualized Operation Monitoring of Water Stations

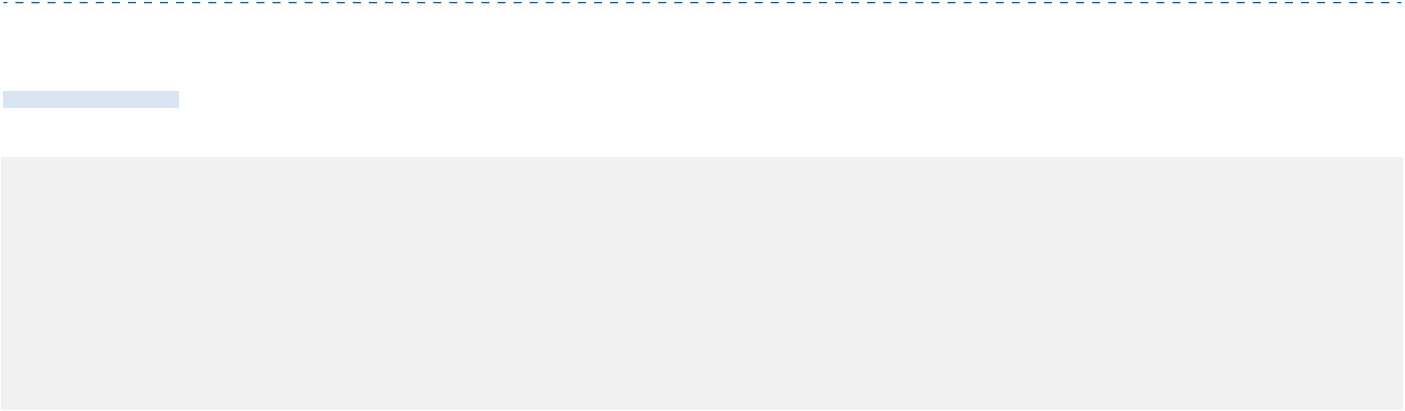
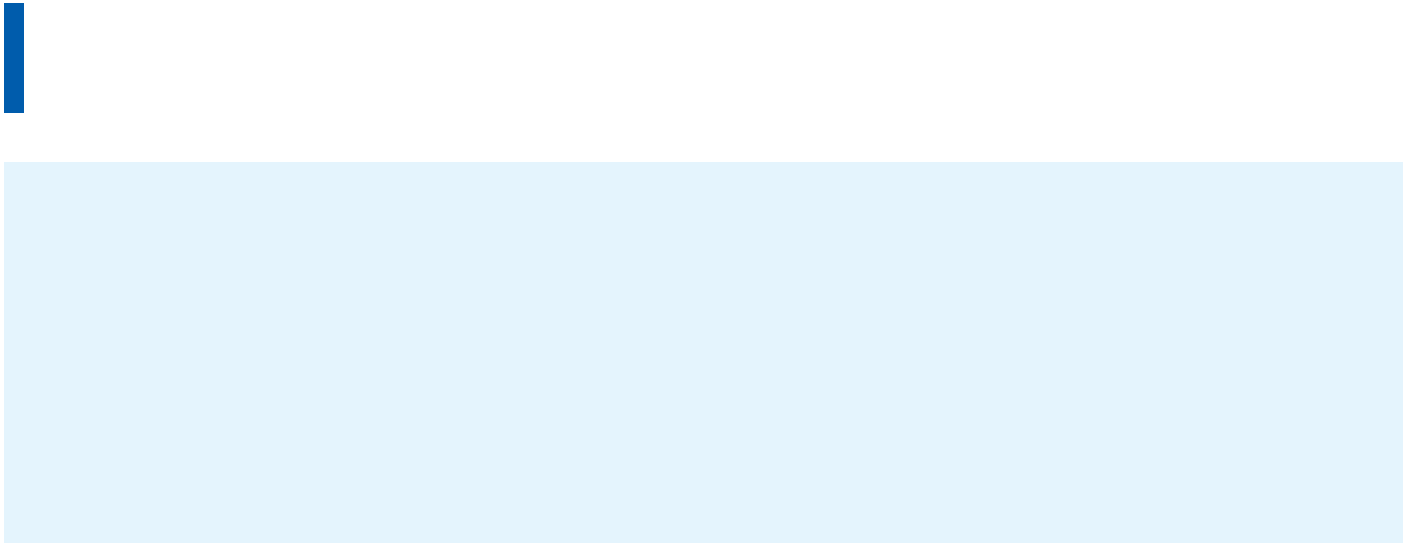


Online metering and billing services, along with visualized operation monitoring, have become essential for energy-saving and intelligent development in water treatment. By implementing intelligent control across key treatment units and the entire process, the system can automatically adjust parameters based on operating conditions, optimize performance, and reduce resource consumption. Leveraging the advantages of regional centralized management, standardized inspections and centralized services are adopted to achieve informatization and detailed cost management of water supply projects and distribution networks.

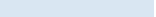


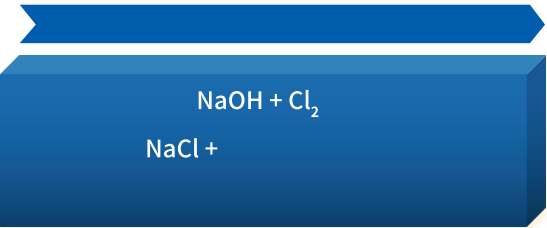
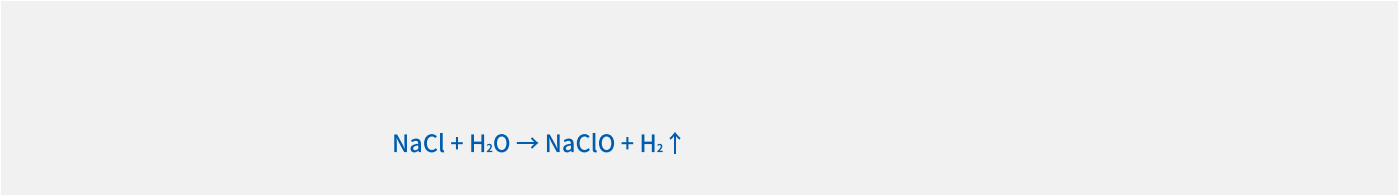
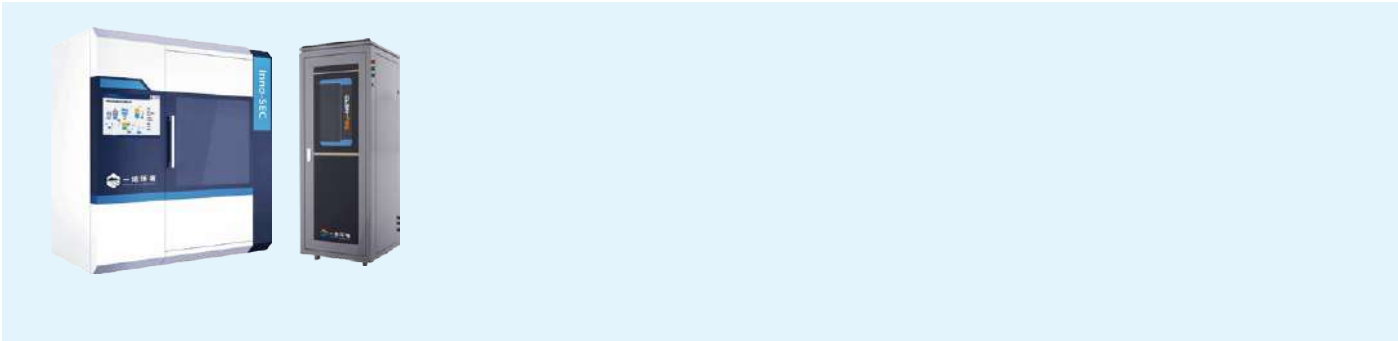
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70%-80%	70%-80%
75-120	75-120
75	135
380	380
18	28





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	1.0	φ1.2×1.8	FRP		≤2	170	
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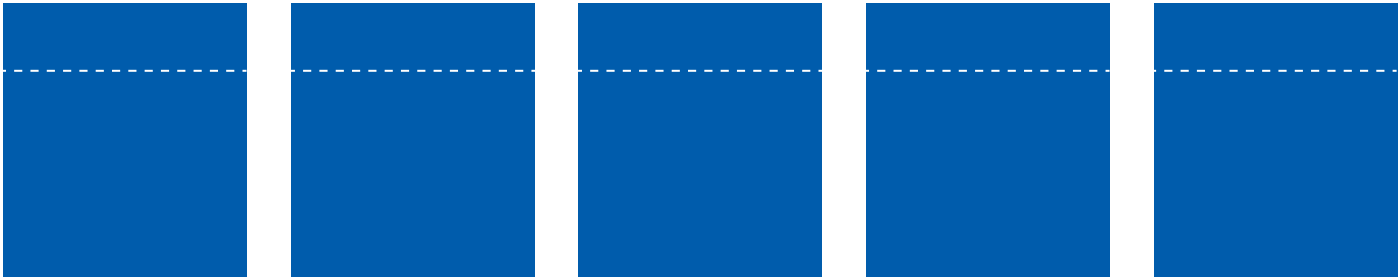


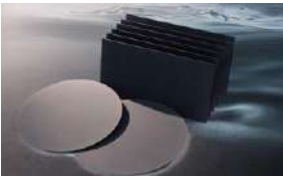
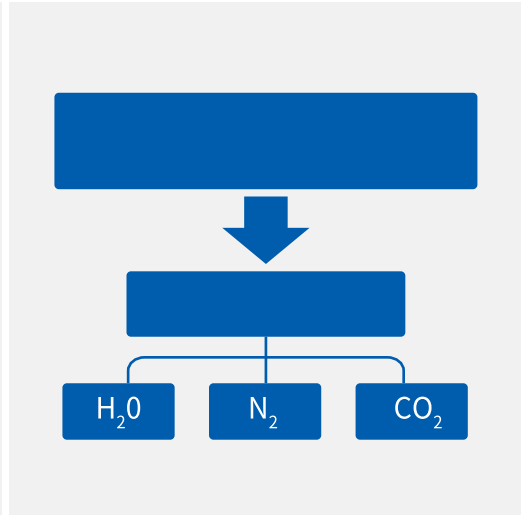
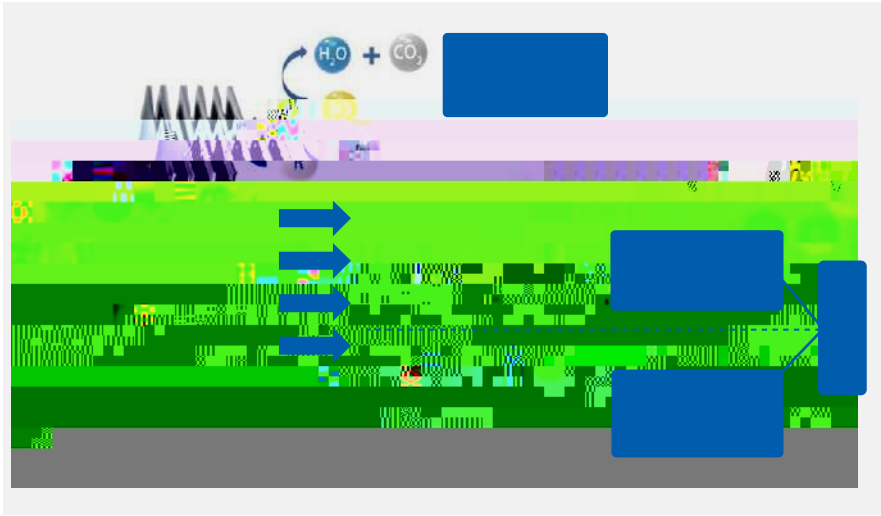
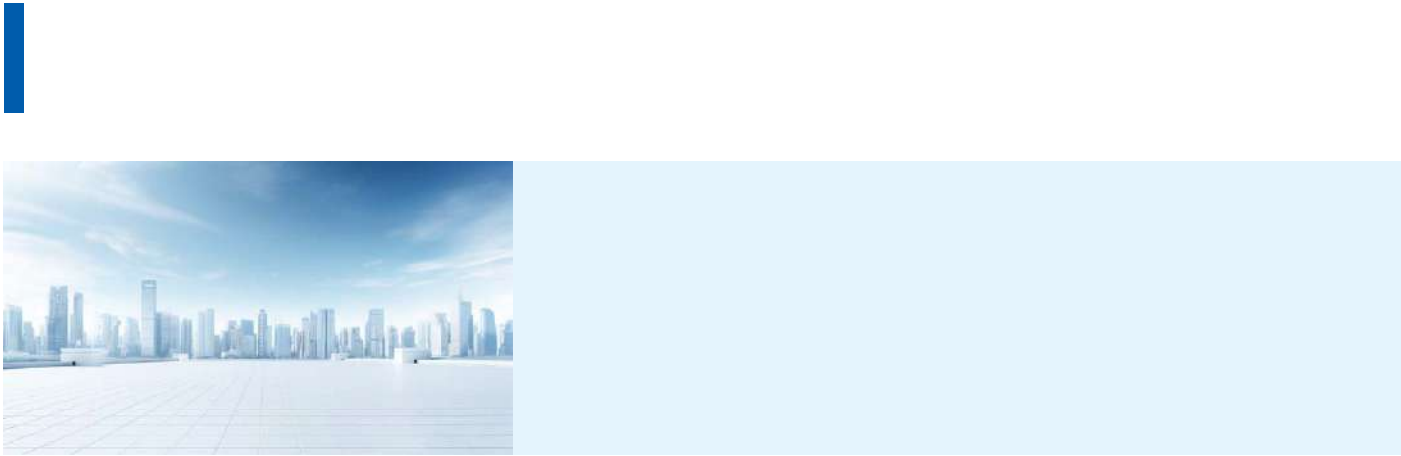


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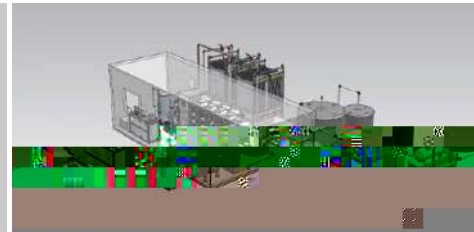
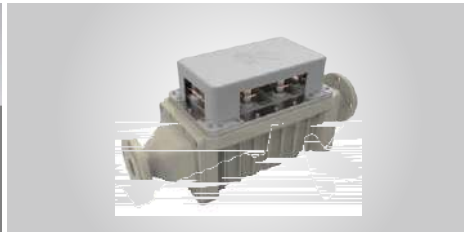


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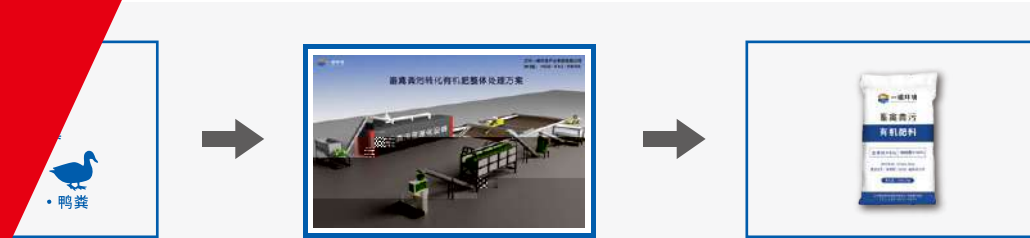
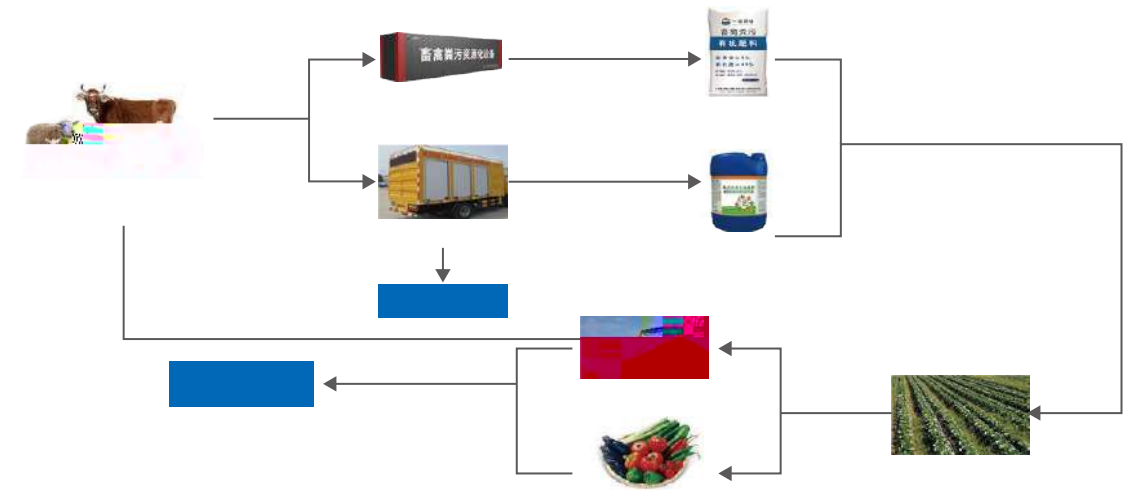
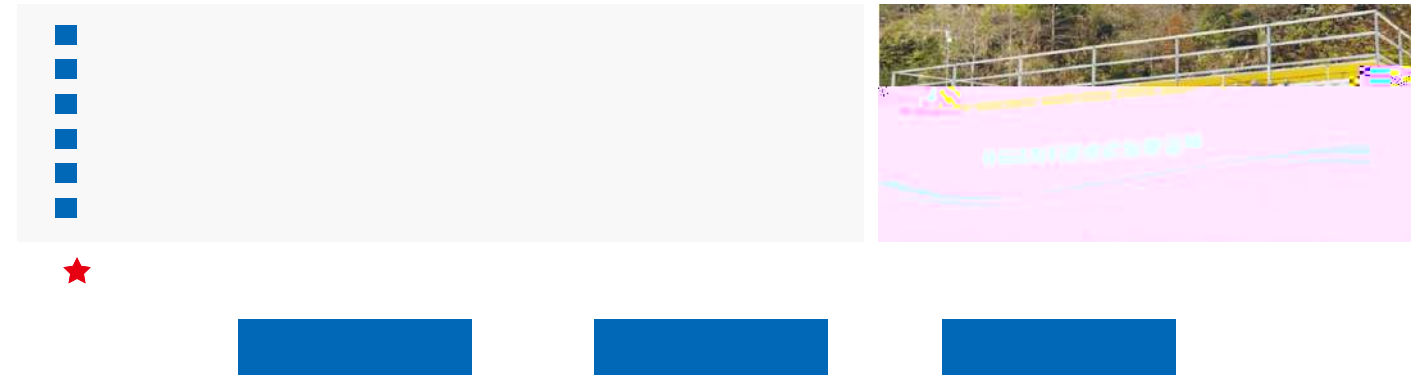
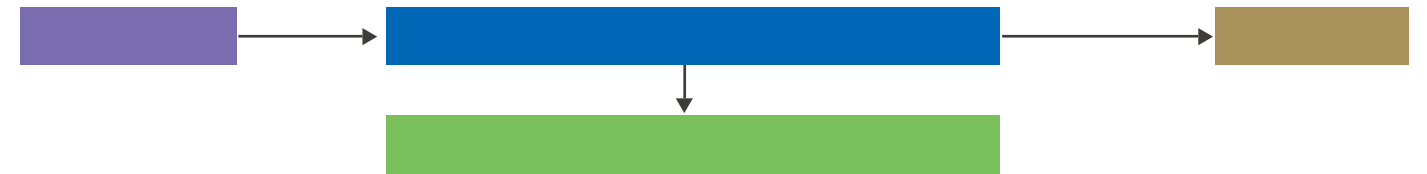
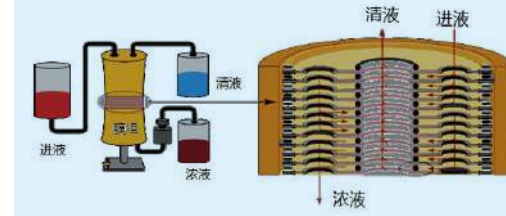




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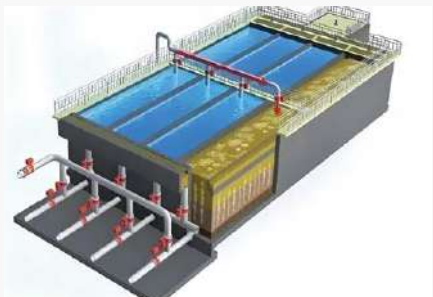
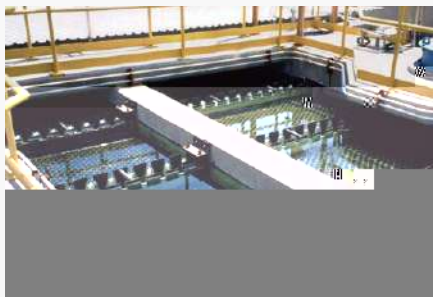
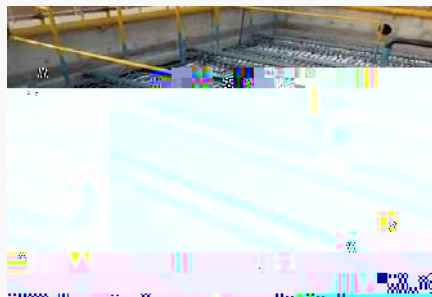
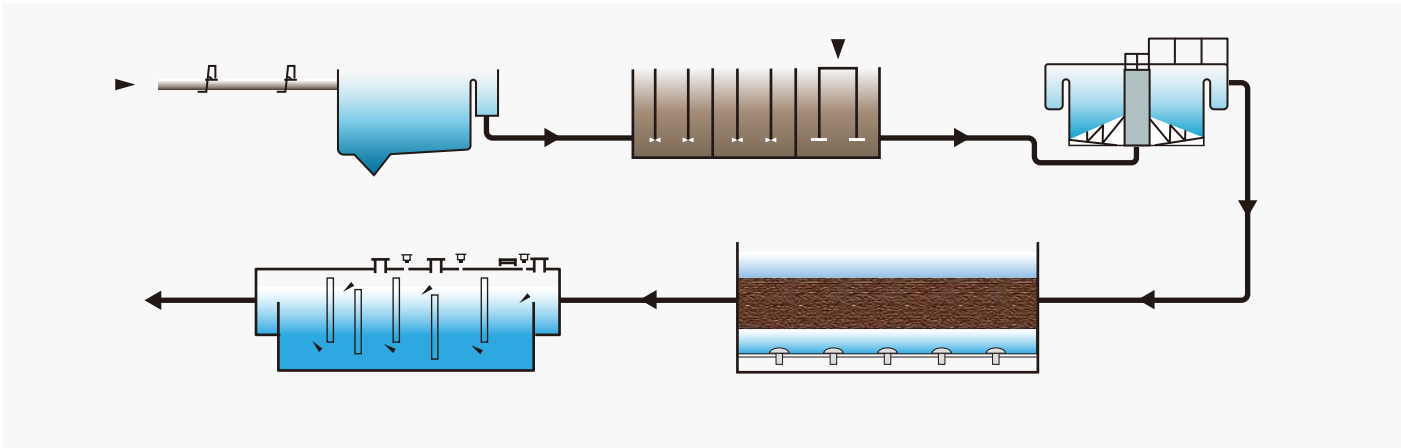


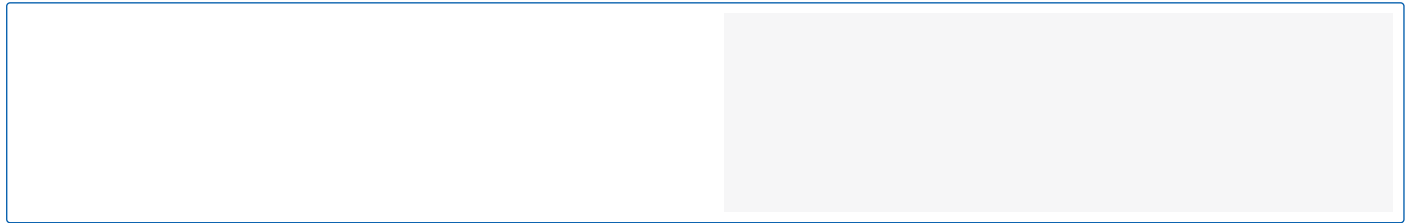
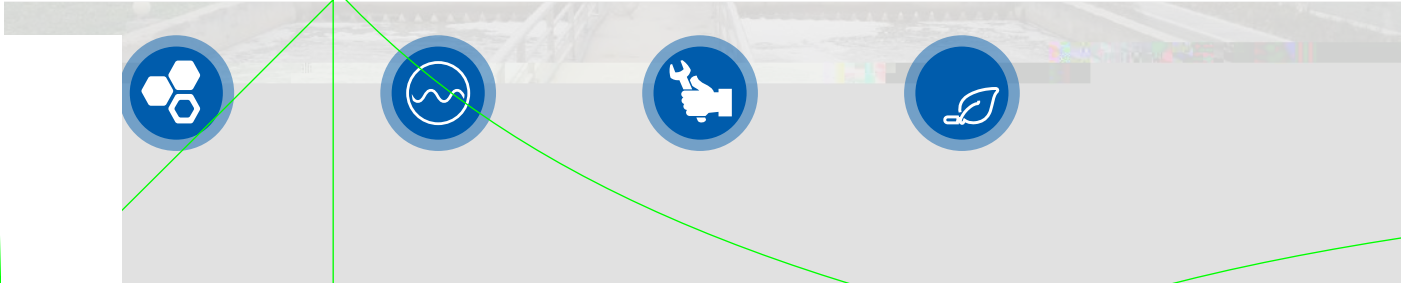
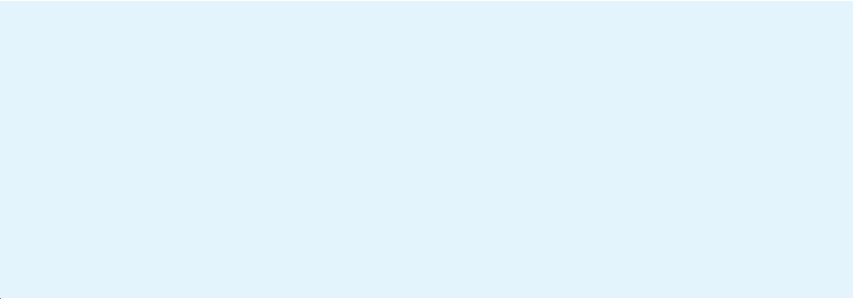
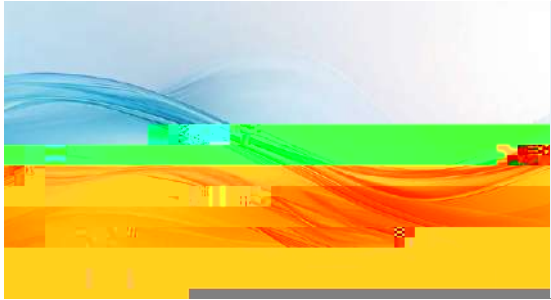
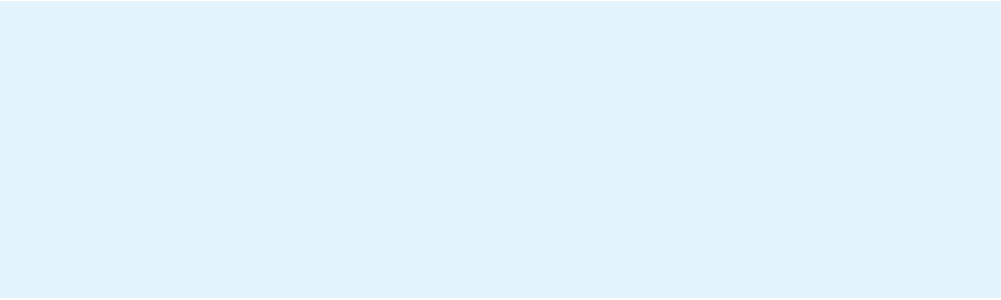
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1					
2					
3					
4					
5	5	10	20	30	50







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MFR-500	500	24.99×3.04×3.538	1		230
MFR-1000	1000	24.99×3.04×3.538	2		230

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