

Building S&T Service Platforms And Promoting Advanced and Applicable Technologies

Sino-Japan Friendship Centre for Environmental Protection

November 2023



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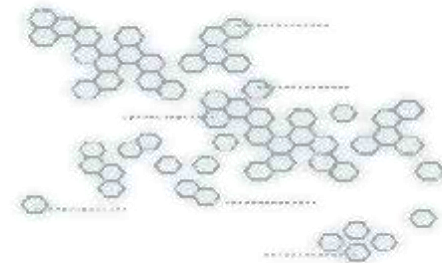
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01 | Introduction to Sino-Japan Friendship Centre for Environmental Protection

Sino-Japan Friendship Centre for Environmental Protection

□ The Sino-Japan Friendship Centre for Environmental Protection is a comprehensive scientific research institution directly under the Ministry of Ecology and Environment of the People's Republic of China.



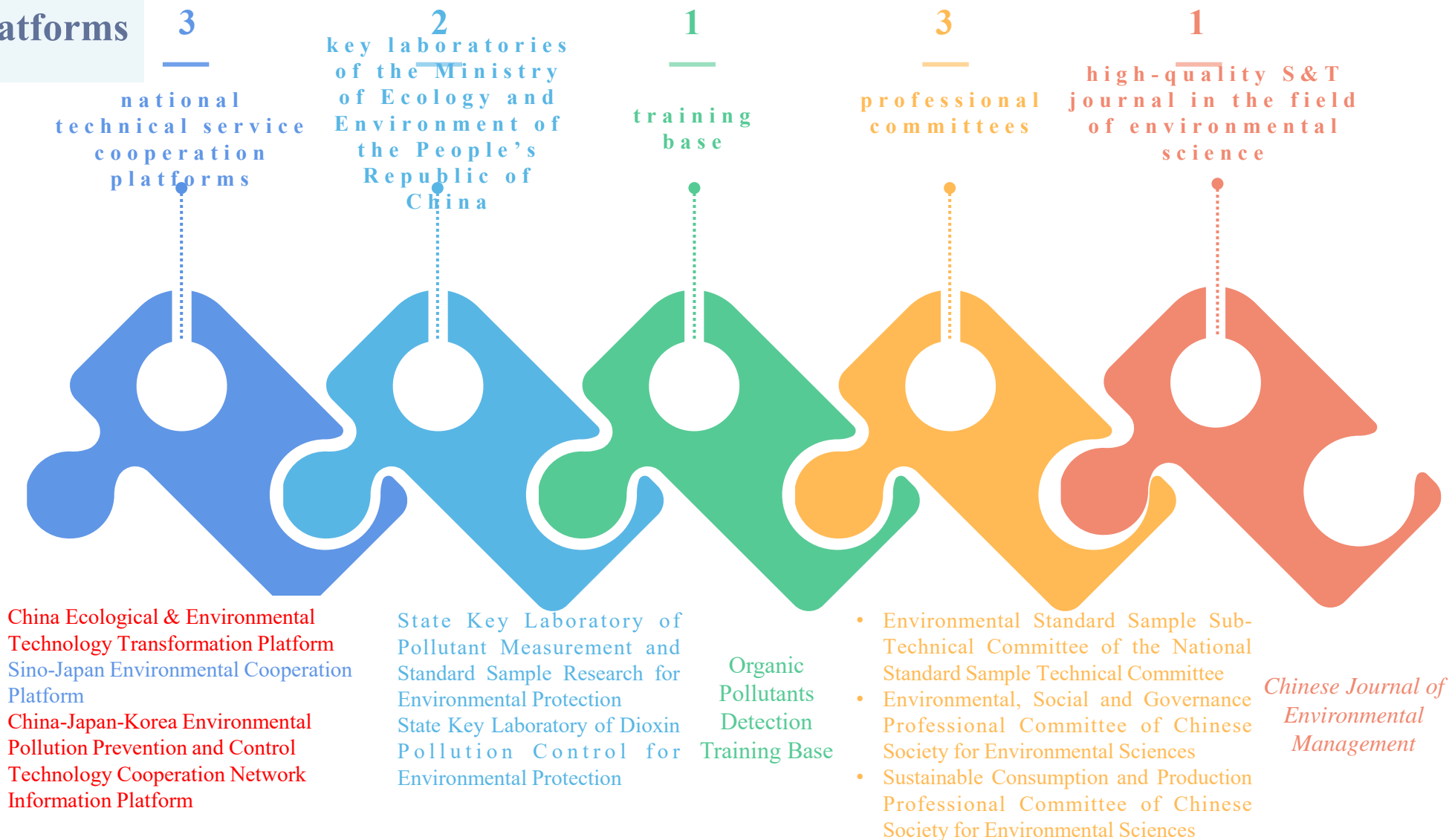
Main Business Areas

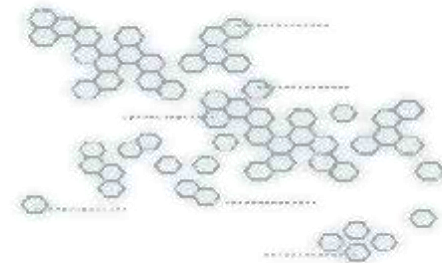
Evaluation, promotion and application of ecological and environmental scientific research achievements, management of national major S&T projects for environmental protection, research and service of environmental analysis and testing technology, research and development of environmental standard samples, research and promotion of green and low-carbon development, research on planning environmental impact assessment, research on the application of ecological environment big data, supervision and management of paid use and trading of emission permits, technical support for environmental labeling certification and management, Sino-Japan environmental cooperation and exchange, etc.



Sino-Japan Friendship Centre for Environmental Protection

□ S&T Platforms





02 | Practice of Transforming Eco-environmental S&T Achievements



China Ecological & Environmental Technology Transformation Platform (CEETT)

- In July 2019, the **China Ecological & Environmental Technology Transformation Platform** was officially launched, relying on specialized platforms to **gather technology and expert resources** in order to build a **full-chain** service system for the transformation of ecological and environmental S&T achievements and improve **the level of achievement transformation and industrialization**. The platform is constructed and operated by the Sino-Japan Friendship Centre for Environmental Protection.



Covering the world's best technologies
for environmental protection

Responding to the environmental
needs of all parties

Gathering environmental protection
experts for services



Practice of Transforming Eco-environmental S&T Achievements

Collection of Technologies



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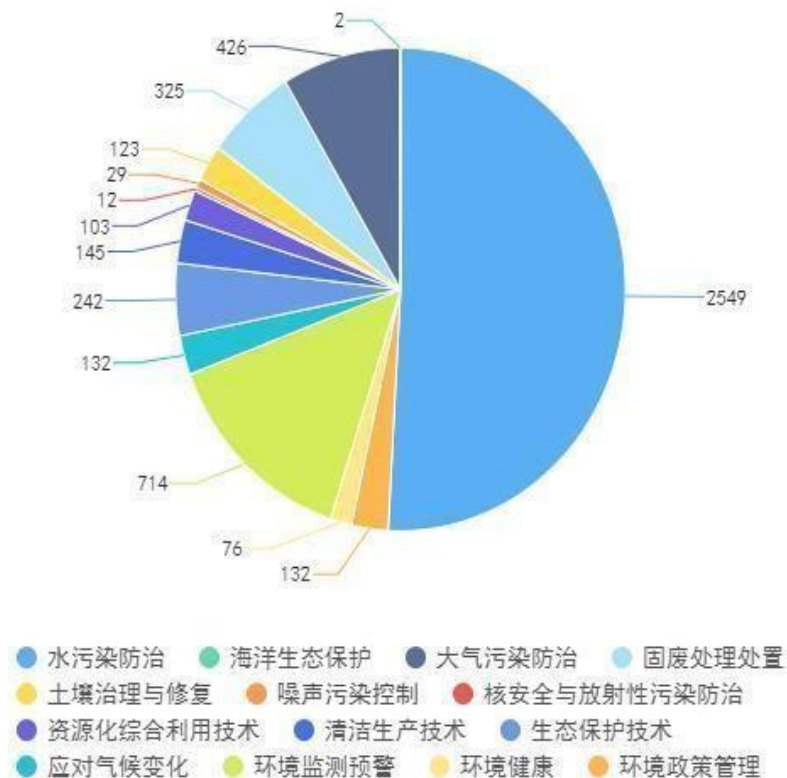
技术成果

水污染防治技术	海洋生态技术
大气污染防治技术	固体废物处理处置技术
土壤治理与修复技术	噪声污染控制技术
核安全与放射性污染防治技术	资源综合利用技术
清洁生产与节能减排技术	生态环境保护技术
应对气候变化技术	环境监测与预警技术
环境健康技术	环境政策管理技术

治理需求

水污染防治需求
大气治理需求
土壤治理及固体废物处理处置需求
环境监测与预警需求

平台收录的生态环境技术成果



Practice of Transforming Eco-environmental S&T Achievements

Construction of Technical Zones

生态环境科技帮扶

—— 以科技助绿 打开生态 ——

走进水专项



走进水专项是生态环境部科技重大专项实施的重要技术支撑，通过工程示范、平台搭建、专家指导、项目孵化等方式，为水污染防治和生态环境治理提供技术支撑。

VOCs 污染防治

农村生活污水治理技术专区

三磷污染防治专区

人与自然和谐共生

打造绿色生态产品

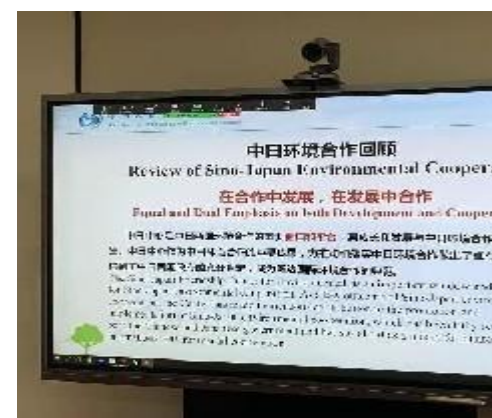
畜禽养殖污染防治



Practice of Transforming Eco-environmental S&T Achievements

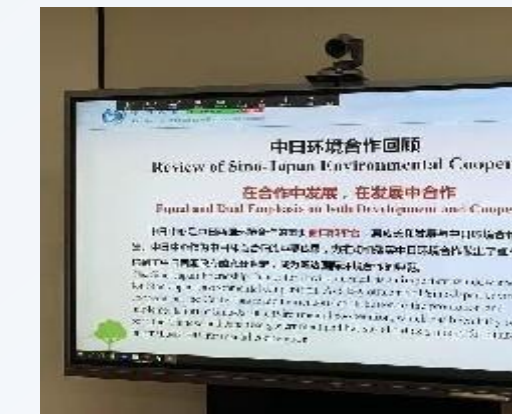
Sino-Japan Technical Cooperation Zone

- ❑ Launching the **Sino-Japan Technical Cooperation Zone** on CEETT to demonstrate the progress of policies, technologies and cooperation projects of China and Japan.
- ❑ Building a platform for technology exchange, transformation and application of Chinese and Japanese enterprises.



Practice of Transforming Eco-environmental S&T Achievements

Sino-Japan Technical Cooperation



- **Launching the Japanese version and Sino-Japan Technical Cooperation Zone** in early 2022.
- Establishing a long-term cooperation mechanism with **Japan's JICA and JESCO** to promote and apply some advanced Japanese technologies in China through **technology docking, exchange and introduction**.
Focused areas: low carbon, solid waste reuse, control of new types of chemicals and climate change.

Practice of Transforming Eco-environmental S&T Achievements

Live Online Training

 <p>张远航 空气质量改善与二次污染防治</p>	 <p>张姲 我国VOCs监测发展现状和市场机遇</p>	 <p>郝郑平 重点行业挥发性有机物污染减排与控制</p>
 <p>李宁 环境VOCs监测气体标准样品及质控校准技术</p>	 <p>张新民 重点行业（石化化工）的治理现状和政策解读</p>	 <p>栾志强 我国VOCs治理现状与治理技术进展</p>
 <p>黄玉虎 油品储运销过程VOCs污染防治</p>	 <p>刘欢 移动源排放与区域大气污染</p>	 <p>丁晓斌 膜集成技术用于VOCs治理的工程实践及展望</p>
 <p>王海林 重点行业VOCs治理工程典型案例分享与经验交流</p>	<p>2020夏季VOCs治理攻坚行动成效及展望 主讲人：李天威 生态环境部生态环境监测司司长</p>	

23 sessions for Special Training on “Coordinated Prevention and Control of Fine particulate Matter and Ozone Pollution”

12 sessions for Live Lecture on VOCs Pollution Control

3 sessions for “Protection of Yangtze River”

2 sessions for National Carbon Market Power Generation Industry Carbon Emission Data Quality Management Training Course

第十一期

细颗粒物和臭氧污染协同防控“一市一策”驻点跟踪研究专题技术培训

国家大气污染防治攻关联合中心 联合主办
国家生态环境科技成果转化综合服务平台

培训时间
2022年3月31日（周四）9:30

培训主题
“十四五”VOCs治理面临的机遇与挑战



第十二期

细颗粒物和臭氧污染协同防控“一市一策”驻点跟踪研究专题技术培训

国家大气污染防治攻关联合中心 联合主办
国家生态环境科技成果转化综合服务平台

全国碳市场发电行业碳排放数据质量管理培训班

培训时间：2022年4月6日（周三）9:00~17:00

中华人民共和国生态环境部应对气候变化司
国家生态环境科技成果转化综合服务平台



Practice of Transforming Eco-environmental S&T Achievements

Offline Technology Promotion



Annual Meeting on Science and Technology
Sub-forum on "Transformation of Ecological and
Environmental S&T Achievements"



National Low-carbon Day Technology
Roadshow

Lower Yangtze River
(Nanjing, Jiangsu)



Middle reaches of Yangtze River
(Changsha, Hunan)



Upper Yangtze River
(Chengdu, Sichuan)



Beijing-Tianjin-Hebei
(Tianjin)



Greater Bay Area (Dongguan,
Guangdong)



Based on the actual pollution control needs of local management departments and enterprises, the platform selected pollution control technology achievements in such areas as industrial sectors, agricultural non-point sources, and black and odorous water treatment, **organizes technical exchanges and docking, carries out face-to-face S&T assistance**, and helps local overall planning and systematic implementation.

Practice of Transforming Eco-environmental S&T Achievements

Industry Technology Promotion Services



- Helping Henan enterprises solve the problem of **excessive fluoride**
- Assisting the 33rd Enterprise Service Day of the Department of Ecology and Environment of Henan Province with a focus on the technological development of **the non-ferrous metal industry**, covering **over 1,000 enterprises**.



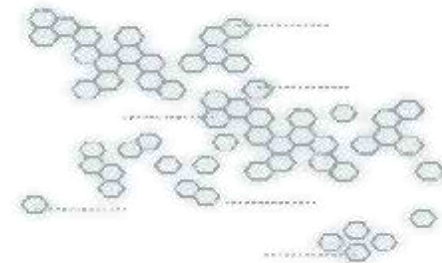
- Conducting research and analysis on **VOCs pollution control** in **Chengdu's** 10 major industrial functional areas, diagnosing prominent key issues, and selecting advanced and applicable technologies.
- **Organizing and convening technical matchmaking meetings to exchange and share pollution control cases**, promote advanced and applicable technology achievements, and help enterprises alleviate difficulties and improve the effectiveness of environmental governance.



Overall Effectiveness

- In the three years since the platform was launched, it has provided **more than 300 S&T consulting services** and **22 expert diagnoses** for local governments and enterprises.
- The platform has brought together **more than 5,200 outstanding S&T achievements**, with **more than 2.2 million views of technical entries** and more than 28,000 registered users.
- Forty live lectures by experts have been held on the platform, with nearly one million people watching and interacting.
- Six large-scale promotion meetings have been organized on the platform, with a total of **600 technologies promoted** and **3,500 enterprises served**.





03

China-Japan-Korea Environmental Pollution Prevention and Control Technology Cooperation Network



Background of Platform Construction

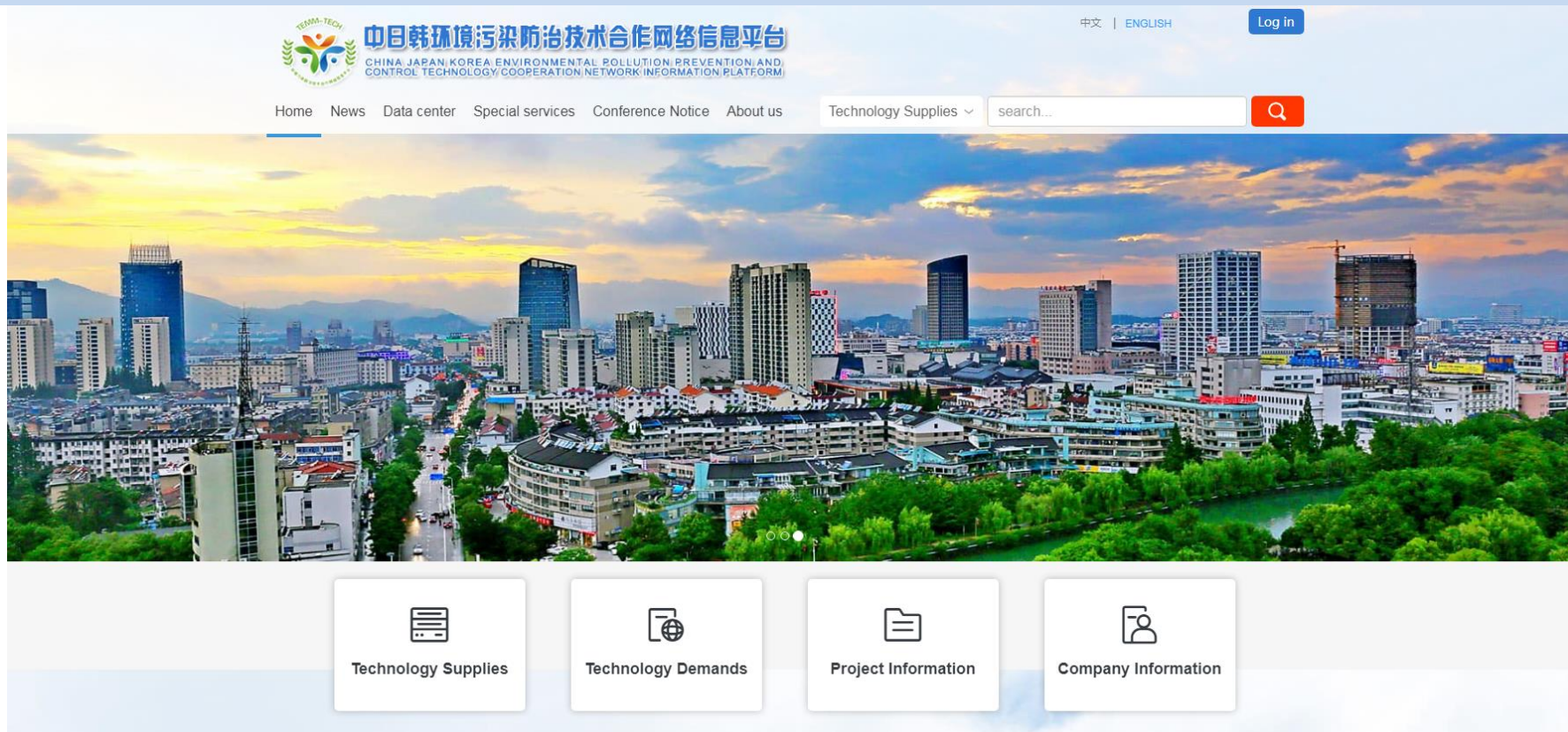


At the 18th China-Japan-Korea Environment Ministers Meeting held in April 2016, the environmental ministries of China, Japan and Korea signed the *Memorandum of Understanding for the Tripartite Cooperation Network for Environmental Pollution Prevention and Control Technologies*, which marks the official launch of the Project between China, Japan and Korea.



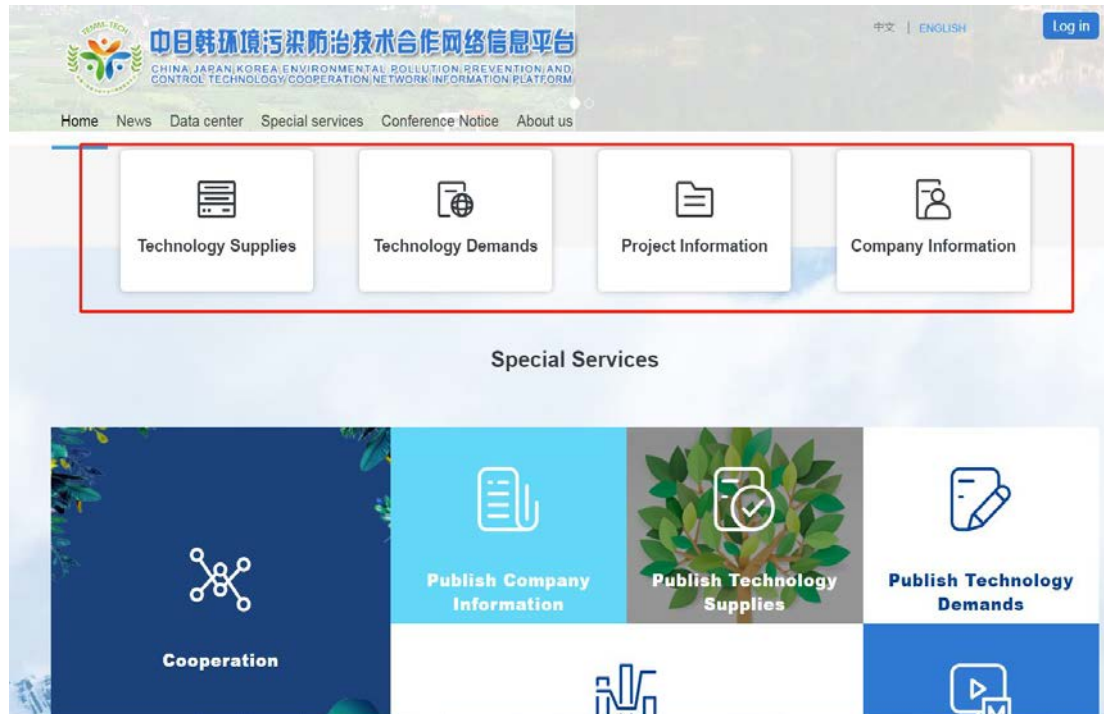
Platform Construction

The information platform was jointly designed by the Sino-Japan Friendship Centre for Environmental Protection, the Japan Overseas Environmental Cooperation Center, and the Korea Environmental Protection Industry Association, aiming to promote the sharing of pollution prevention and control technology information within the region, strengthen exchanges and dialogues among the three countries in the field of environmental protection and pollution prevention technology, and promote cooperation in the environmental technology industry.

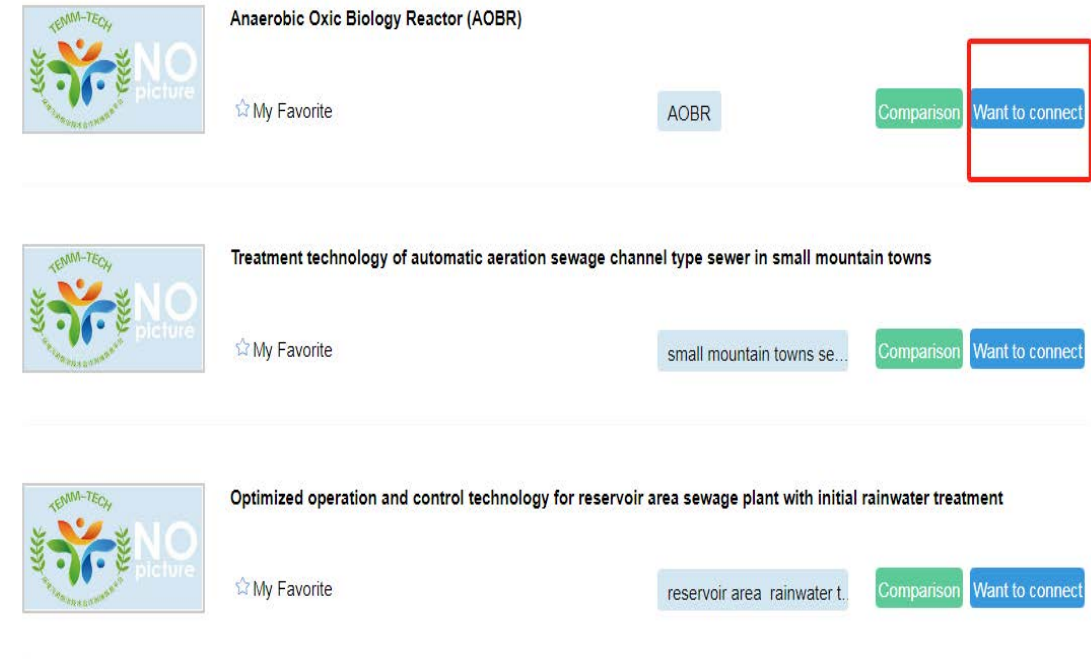




Platform Function



- The platform has built four major databases: Technology Supplies Database, Technology Demands Database, Project Information Database, and Company Information Database.



- Enterprise users can instantly query information, publish information, and communicate with each other.



Platform Function - Company Information Database

Enterprise users from China, Japan, and Korea can upload basic information about their business, main products, technical advantages, etc.

Data Center
数据中心

Technology Supplies

Technology Demands

Project Information

Company Information

Home > Company Information Database

Sort by Country:

China

Japan

Korea

Enterprise Name	Country	Legal representative
DS21 Co., Ltd.	Korea	Lee Cheon-eok
HKET CO.,LTD.	Korea	JANG GYU JIN
KEST-ENG CO.,LTD	Korea	Doo-Hyun SUNG
DOO YOUNG ENG.,LTD	Korea	Lee Ki-soo
KOREA INCINERATOR CO.,LTD.	Korea	Soo-on Kwak

Enterprise List



DS21 Co., Ltd.

Country : Korea
Legal Representative : Lee Cheon-eok
Registered Address : #20, Majung 5-ro, Seo-gu, Incheon, Korea
Registered Capital : 1 (KRW-Korean Won)

Company Profile	DS21 have designed and manufactured innovative waste water treatment , produced water treatment, storm water treatment, water treatment, and sewage /sanitary with our own technology.We have been registered in the world-famous companies such as ARAMCO, KNPC, KOC, SABIC, SWCC, TAKREER, GASCO, BOROUGE, ADNOC, ADMA-OPCO, OMAN OIL AND GAS COMPANY in the middle east countries.
Previous Projects	More than 1000 in Korea and 100 overseas
Environment-friendly Products	Waste Water Treatment
Technical Advantages	Facilities to treat wastewater from general industrial plants and large-scale plants; treatment properties such as method, material, and weight are different depending on the wastewater attributes and flow rates.

Enterprise Details



Platform Function - Technology Supplies Database

The Technology Supplies Database is classified into five major fields: water, air, soil, solid waste, and environmental monitoring, with specific subdivisions set up for each field to facilitate users to search for relevant technologies in a targeted manner. The technical description includes detailed information such as technical advantages and application scope.

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数据中心

Technology Supplies

Technology Demands

Project Information

Company Information

Home > Technology Supplies

Please enter the name of technology

Technology Supplies database

Clear Filters

Environmental

water pollution control

Air pollution control

Soil pollution control

Solid waste

Fields:

disposal

environmental monitoring

Segment:

Industrial waste water

Sludge treatment

Drinking water safety

Desalination

Groundwater pollution

River basin / ecological restoration

Urban/rural water supply

Urban sewage

Livestock and poultry breeding

Agricultural and rural sewage

Industrial water supply/circulating water

Others

Sort by

China

Japan

Korea

Country:

Sort by

Within one week

Within one month

Within three months

Within half a year

Within one year

Date:

All dates

Technical Classification

Technology of recycling valuable metals from waste residue of nickel and copper smelting by cyclone electrolysis

Field: Resources and Comprehensive Utilization>>Industrial waste

Industry: Others

Region: Beijing

Key Words: cyclone electrolysis recycle metal

Information State: valid

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Technical Overview	After electrowinning, the solution contained 8g/L copper and 10g/L arsenic, and the metal recovery rate reached 98%.
Technical Advantages	The technology uses various copper-containing waste acid as a leaching agent to leach black copper slag. The leaching solution is subjected to two pressure filtration, precision filtration, and back-cycled electrolysis process to produce standard cathode copper. The product is cut and flattened and then stored. After electrowinning, a part of the solution is returned to the sulfuric acid leaching process.
Scope of Application	Suitable for recycling valuable metal from waste residue of nickel and copper smelting.
Details	The technology uses various copper-containing waste acid as a leaching agent to leach black copper slag.

Technical Description



Platform Function - Project Information Database and Technology Demands Database

The Project Information Database and Technology Demands Database are set up according to the five major fields of water, air, soil, solid waste, and environmental monitoring, subdivided fields, and the industry to which the project or technology demander belongs. Users can filter according to the above categories, publication time, and country to improve their query and matching efficiency.

- Technology Supplies
- Technology Demands
- Project Information**
- Company Information

- Technology Supplies
- Technology Demands**
- Project Information
- Company Information

Home > Project Information Database

Please enter a project name

Project information database Clear Filters

Environmental water pollution control Air pollution control Soil pollution control Solid waste

Fields: disposal environmental monitoring

Segment: Industrial waste water Sludge treatment Drinking water safety Desalination
Groundwater pollution River basin / ecological restoration Urban/rural water supply
Urban sewage Livestock and poultry breeding Agricultural and rural sewage
Industrial water supply/circulating water Others

Sort by China Japan Korea

Country:

Sort by Within one week Within one month Within three months Within half a year Within one year

Date: All dates

Home > Technology Demands

Please enter the name of technology

Technology Demands database Clear Filters

Environmental water pollution control Air pollution control Soil pollution control Solid waste

Fields: disposal environmental monitoring

Segment: Industrial waste water Sludge treatment Drinking water safety Desalination
Groundwater pollution River basin / ecological restoration Urban/rural water supply
Urban sewage Livestock and poultry breeding Agricultural and rural sewage
Industrial water supply/circulating water Others

Sort by Within one week Within one month Within three months Within half a year Within one year

Date: All dates

Industry: Coking Chemical Industry Papermaking industry Coal mining industry Pharmaceutical Industry
Nitrogen fertilizer Others



Platform Offline Technology Promotion

From 2017 to 2019, the China-Japan-Korea Environmental Industry & Technology Joint Exhibition and Cooperation Forum was held alternately in Korea, China and Japan, with representatives of enterprises from the three countries invited for discussions and exchanges. These activities have effectively enhanced the exchanges among enterprises from China, Japan, and Korea, provided a good platform for the technical exchange of these enterprises, and promoted the sharing of information on pollution prevention and control technologies among these enterprises.





Platform Offline Technology Promotion

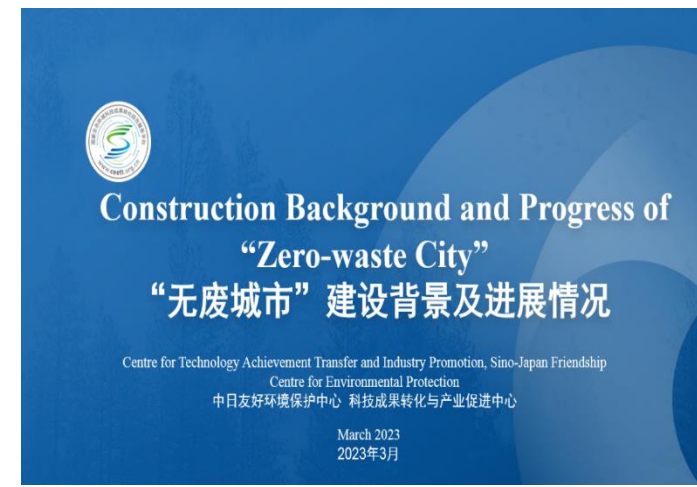
Exchange Meeting on Sino-Japan Soil Environmental Governance Policy held in 2017

- Sharing Japan's experience and technical cases in legislation, implementation, and governance processes in the field of soil environmental governance.



Sino-Japan Technical Exchange Seminar on “Zero-waste City” held in 2023

- Sharing Japan's experience in resource management
- Promoting the resource utilization technology of Chinese and Japanese enterprises



Thank You!

China Ecological & Environmental Technology Transformation Platform: www.ceett.org.cn

China-Japan-Korea Information Platform: www.temm-tech.cn

