

SUEZ ASIA Essential 亚洲 快讯

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SUEZ Spotlight

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SUEZ signs new industrial wastewater treatment services agreement to expand its environmental market in Fujian Province



10,000 m³/day

treatment capacity of facility in Phase I currently running

20,000 m³/day

treatment capacity of facility in Phase II to be completed by 2025

SUEZ, through its joint venture Jiangsu Sino French Water, recently signed an agreement with Shaowu City of Fujian Province to acquire 51% equity in Shaowu Wujiatang Wastewater Treatment Company Limited. Under this agreement, the joint venture will be responsible for the operation, management and technological re-engineering of the wastewater treatment plant in Jintang Industrial Park to provide high quality industrial wastewater treatment services for the Park and adjacent townships. This move will also facilitate protection of the local river ecosystem.

SUEZ wins several equipment and technical services contracts



to provide DensaDeg™ and Aquazur® V equipment and technical services to the water treatment plant
water treatment capacity of 50,000 m³/day



to provide equipment supply, process package design and technical services to Shenghong Integrated Refining & Petrochemical Project wastewater treatment plant
to adopt the two-staged Oxyblue™ process to remove the hard COD and improve the effluent quality



to provide Innodry®2E sludge drying equipment and technical services to Yangzhou Sino French
the dried sludge with low water content is transferred to the thermal power plant for incineration and power generation, which enables waste-to-resource conversion



to provide technical services for the DensaDeg™ and Biofor™ processes for the Hongqi wastewater treatment plant

- **effluent to achieve surface IV water quality standard in the long-term**
- **industrial and municipal wastewater treatment capacity of 100,000 m³/day**



to provide full process package design, equipment and technical services to a 14,400 m³/day raw water treatment plant as well as a 2,400 m³/day wastewater treatment plant
effluent meets Class 1A discharge standard to minimise the environmental impact



SUEZ takes part in IE Expo Shanghai to drive industry development with industrial peers

From 20 to 22 April 2021, SUEZ took part in IE Expo Shanghai, which showcased cutting-edge products and solutions of 2,157 companies from 24 countries and regions. SUEZ shared its innovation results in water and wastewater treatment, solid waste management, air quality control as well as soil remediation with industrial peers to drive low carbon development of the environmental industry. Laura Sun, Senior Vice President of SUEZ Asia, took part in a panel discussion at the China Environment Technology Conference held concurrently with the Expo, to share her views with industry peers on 'The New Mission of Environmental Protection Industry in the 14th Five-Year Plan' based on the theme of 'Effective Pollution Prevention and Control For A Beautiful China'.



visitors

81,957

'meet-our-experts' sessions

12

VIP-client visitors

60⁺



SUEZ and its partners launch new sustainable product to lead the industry in innovation

On the first day of IE Expo Shanghai, Frank Ma, President of Samsonite Greater China, Fu Limin, Vice President of China Polyolefin Business, Lyondellbasell, and Francois Jenny, Business Line Director – WINS, Recycling and Recovery, SUEZ Asia, launched a sustainable luggage made with post-consumer plastic at the SUEZ booth, giving waste a second life and alleviating the threat of global plastic waste.





SUEZ takes part in Western China International Fair

From 20 to 23 May 2021, SUEZ was invited to join the 3rd Western China International Fair for Investment and Trade (WCIFIT) to showcase its latest environmental solutions as well as major projects and reference cases in western China. SUEZ delegates also shared ideas with visiting government officers and corporate representatives on the development of the environmental industry in western China and explored possible business opportunities in the future.



SUEZ wins big at China Water Industry Awards



On 1 April 2021, at the E20 Water Strategic Forum, the appraisal results for China's water companies for 2020 were announced. SUEZ has been ranked among the 'Top 10 Most Influential Water Companies' for the 18th consecutive year since the inception of the award. Its joint ventures, Macao Water and Jiangsu Sino French Water, were again named 'Most Socially Responsible Company'.



Felix Fan, SUEZ Asia Senior Vice President, introduced the Group's businesses at the strategic forum.



Chongqing Sino French Tangjiatuo Wastewater Treatment Plant was rated as a benchmark model for wastewater treatment plants in China.



SUEZ showcased *SUEZ Degremont® Water Handbook*, which is deemed the encyclopedia of the water industry, at the exhibition held concurrently with the forum, together with various sustainable solutions.

SUEZ completes the acquisition of the non-controlling interests in Suyu

SUEZ announced on 11 May 2021 that it has completed the acquisition of NWS' (NWS Holdings Limited) 50% indirect stake in Suyu, in accordance with the announcement of 11 January 2021.

Following the acquisition of the 50% stake from NWS, SUEZ now owns 100% of Suyu. The final cash consideration for the transaction amounts to 253 million euros. In 2019, Suyu generated an EBITDA and a Net Income of 32 million euros.

SUEZ expects the acquisition to be accretive to recurring Net Income and recurring FCF as soon as 2021.

SUYU

In 2015, SUEZ and NWS signed, through their 50/50 joint venture Suyu, an agreement with Chongqing Water Assets to jointly create Derun Environment.

Derun Environment, through its 50.04% shareholding in Chongqing Water Group and 43.86% in Chongqing Sanfeng, is a leading group in water and waste activities in China and an investment platform to significantly speed up the development and implementation of innovative solutions in the Chongqing area.

Following the acquisition of NWS' indirect 50% stake in Suyu, SUEZ will now own 25.1% of Derun Environment. By increasing its ownership, SUEZ is reinforcing its commitment and partnership with Chongqing Water Assets. SUEZ will continue to develop and implement cutting-edge solutions to optimise water and wastewater treatment management, in partnership with the municipality and its partners.

Suzhou SIP Sludge Treatment Project celebrates 10th anniversary



On 15 April 2021, SUEZ's sludge disposal and resource reuse project in Suzhou Industrial Park celebrated its 10th anniversary. The exemplary circular economy project, of which the management experience has been duplicated to Jiangsu Yangzhou and Suzhou Xiangcheng, successfully improves the sludge treatment capacity of cities of the Yangtze River Economic Zone and protects the water resources along the Yangtze River.

In the past 10 years of operation, the project had been running continuously and steadily 24 hours every day. It had disposed of nearly 1.2 million tonnes of wet sludge and produced about 300,000 tonnes of dry sludge accumulatively, which is equivalent to 110,000 tonnes of standard coal for power plants. It reduced CO₂ emission from coal combustion by 280,000 tonnes and saved 756,000 tonnes of demineralised water and 100 hectares of landfill for sludge.

A paragon of the circular economy for industry synergies
A replicable case study in China for 3rd party treatment solution

Achievements in the past 10 years:

wet sludge treated

1,200,000 tonnes

CO₂ emission reduced

280,000 tonnes

energy saved equivalent to

110,000 tonnes of standard coal





Hong Kong San Wai Wastewater Treatment Plant Upgrade Project put into operation

The extension project of the San Wai Wastewater Treatment Plant in Hong Kong, which was designed and built by SUEZ and its partners ATAL and China Harbour, has been put into operation on 6 March 2021. The foresaid three parties set up a joint venture to operate and maintain the plant in the coming 10 years. After the conclusion of the project, treatment capacity of the plant will be boosted to 200,000m³/day, which can meet the needs of a growing population and increased urban development in the Yuen Long area.

total treatment capacity

200,000 m³/day

contract period

10 years



Macau Peninsula Wastewater Treatment Plant Extension Project put into operation

A consortium formed by SUEZ and WATERLEAU started to implement the improvement, operation and maintenance contract of Macau Peninsula Wastewater Treatment Plant on 1 January 2019. The consortium took over the operation of the existing facility and constructed a new treatment facility onsite, with daily treatment capacity of 60,000 m³. The new facility was put into operation on 1 March 2021. The consortium will operate and maintain the whole wastewater treatment plant before 31 July 2023.

total treatment capacity

204,000 m³/day

Nantong SITA wins 10-year hazardous waste treatment contract

On 28 April 2021, Nantong SITA signed a contract with Nantong Capchem Chemicals Co., Ltd. to provide the latter 10-year hazardous waste treatment service to ensure the effective treatment of industrial waste whilst reconciling economic development and environmental protection. Nantong Capchem Chemicals' main businesses are R&D, production and sale of chemicals as well as organic optoelectronic materials for capacitors and lithium batteries.



Taiwan Cheng Cing Lake Drinking Water Treatment Project celebrates breakthrough in water production of 2 billion tonnes

On 8 March 2021, Taiwan Cheng Cing Lake Drinking Water Treatment Plant, operated and managed by SUEZ, held a banquet to celebrate its breakthrough in total water production of 2 billion tonnes over 17 years since its inception. The Director of Taiwan Water Supply Company 7th District and the Chairman of China Ecotek Corporation, its partner, attended the banquet.



SUEZ Asia wins two awards in SUEZ Innovation Awards 2021

The SUEZ Innovation Awards 2021 ceremony was being broadcast live on 15 April 2021. 14 winning projects from 7 categories (Health & Quality of Life, Carbon Negative, Performance, Circular, Natural Capital, Digital and For People) and a Staff's Favourite Project Award were announced at the ceremony, among which, two are from SUEZ Asia.



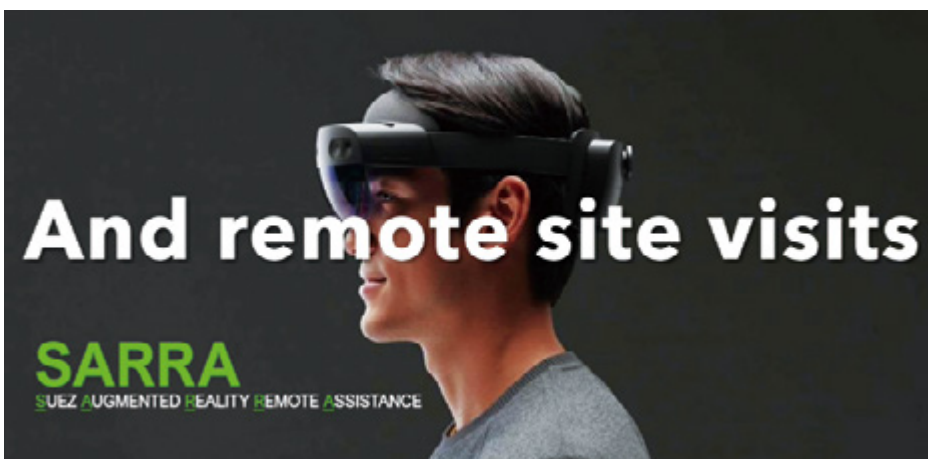
SUEZ Asia Treatment Infrastructure's Dehydris Ultra wins Second Prize in Performance Category

The advantages of the facility are

- dried sludge with 35% water content
- energy self-sufficient
- 24/7 fully automated system
- turning sludge into resources

SUEZ Asia Recycling & Recovery's SUEZ Augmented Reality Remote Assistance wins Grand Prize in Digital Category

SUEZ Augmented Reality Remote Assistance was invented owing to travel restrictions during the COVID-19 pandemic when technical experts were needed on the site of Asia's first circular polymer plant in Thailand to manage construction and operation of the plant. This device can be further applied in smart construction, smart maintenance and smart operation.



SUEZ Asia wins two Grand Prizes in SUEZ WINZ Award

SUEZ held the WINZ award ceremony on 9 March 2021 to celebrate SUEZ's major commercial wins closed by SUEZ sales teams despite the pandemic in 2020. There were five categories of awards, i.e. Landmark, Team Spirit, Innovation, Purpose and Most Popular. Two projects from SUEZ Asia emerged winners of Grand Prize awards.

Shenghong Petro WWTP Project Grand Prize in Innovation Category



SUEZ provides process design, equipment and material supply as well as technical services for the wastewater treatment plant of Shenghong Petro in Xuwei Petrochemical Industrial Park in Lianyung Port. The plant's treatment capacity is 79,200m³/day.

The project applied the innovative Embedded WWTP concept. It combines wastewater treatment and petrochemical processes at the initial design stage and makes a synergy with the upstream petrochemical installations, thereby turning water, gas and slag that are supposed to be treated as wastes into resources for reuse in the wastewater treatment process. It significantly reduces operation costs and it can reduce carbon emission by 8,123 tonnes every year.

Philippine Calawis Water Project Grand Prize in Team Spirit Category



The success of the project underlines the ability of SUEZ entities to work collaboratively on a project (with Proposal Platform Centre Water Asia, TI China, as well as Treatment Infrastructure, UCD team, local Philippine team and Southeast Asia team). The teams managed to prepare high-quality offers very appreciated by the client, demonstrating SUEZ's core values of Team Spirit.

Here are the project highlights:

- Explore new and more sustainable water sources in the mountain
- The biggest modular WTP in the country
- Meet the water demands of 14 million residents in the city



Seven laboratories in Asia named 'SUEZ Reference Laboratories'

In the biennial SUEZ global interlaboratory comparisons tests, seven laboratories in Asia, occupying over half of the 13 winning laboratories, were named 'SUEZ Reference Laboratories'.

They are

Baoding Sino French, Chongqing Sino French Water, Jiangsu Sino French Water, Macao Water, SCIP ChemiRy, Tanggu Sino French and Tanzhou Water.

Four TI projects named 'Water Industry Reference Cases' in China

In April 2021, four TI projects were selected as 'Water Industry Reference Cases for 2020' in China. E20, an influential environmental platform in China, invited industrial experts to take part in the evaluation process.

Nanjing Qiaobei Project

Aligning the most stringent national standard for nitrogen removal

Hengli Refining Integration Project

Reusing the waste to achieve resource recycling and reuse

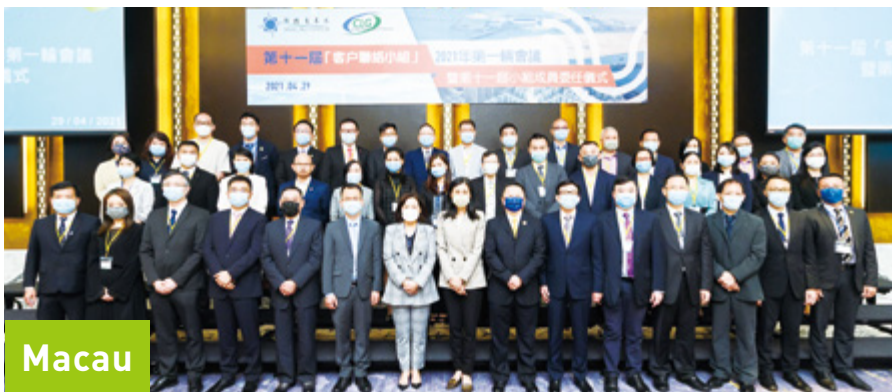
Zhuhai Gaolan Port Project

Achieving Class IV Surface Water Standard for effluent

Wanhua Yantai Industry Park Project

Reusing ozone exhaust gas to achieve circular economy



**Macau**

On 29 April 2021, Macao Water organised a Customer Liaison Group meeting to gather ideas and opinions from the stakeholders on water services and corporate development. Discussion topics included the implementation of 'Subsidy Programme for Repair of Service Connections of Low-rise Buildings', update on the status of the Seac Pai Van Plant, promotion of grey water reuse, and others.

**Singapore**

In conjunction with the World Water Day, the Singapore Water Association held a movie screening of the documentary Brave Blue World on 17 March 2021, followed by a panel discussion on water issues. SUEZ participated as one of the co-sponsors of the event and shared about the Group's efforts in climate change mitigation and water resources conservation.

Expert exchange

Despite the COVID-19 pandemic, in the second quarter of 2021, SUEZ Asia has hosted meetings and received visits from external stakeholders to facilitate technical exchanges and mutual understanding.



Taiwan

On 22 April 2021, Executive MBA students from Taiwan's National Changhua University of Education, made up mainly of business leaders, senior executives and public opinion leaders, visited the Dafa WtE facility and made exchanges with its operational management team.



Chongqing

From 14 to 17 April 2021, China Urban Water Association led a delegation to visit Chongqing Sino French Water and Chongqing Sino French Tangjiatuo to better understand smart water as well as resource recycle and reuse practices, such as tailwater power generation and biogas reuse.



Seoul

On 31 May 2021, Ana Giros, Senior Executive Vice President for SUEZ, participated in a panel session based on the theme of 'Carbon-Neutral Smart Water Management for Climate Resilience' at the P4G Summit Seoul 2021.



Xi'an

SUEZ Asia Innovation representatives visited Xi'an Jiaotong University on 27 and 28 April 2021. They made exchanges on environmental technologies and explored future cooperation on innovation and R&D.



Nantong

On 13 May 2021, Wang Quan, member of the Standing Committee of Jiangsu Provincial People's Congress and Director of Environmental, Capital and Urban Construction Committee, led a delegation to visit Nantong SITA, to inspect safety precautionary measures during the hazardous waste treatment process as well as pollutant emission.



Suzhou

On 28 April 2021, Zhu Min, Deputy Secretary of the CPC Suzhou Municipal Committee, led a delegation to visit Suzhou SIP JV to research on the sludge disposal project.



Zhuhai

On 13 April, 2021, He Jun, Director of Zhuhai Water Affairs Bureau, led a delegation to visit Macao Water and made exchanges with its representatives.



Xi'an

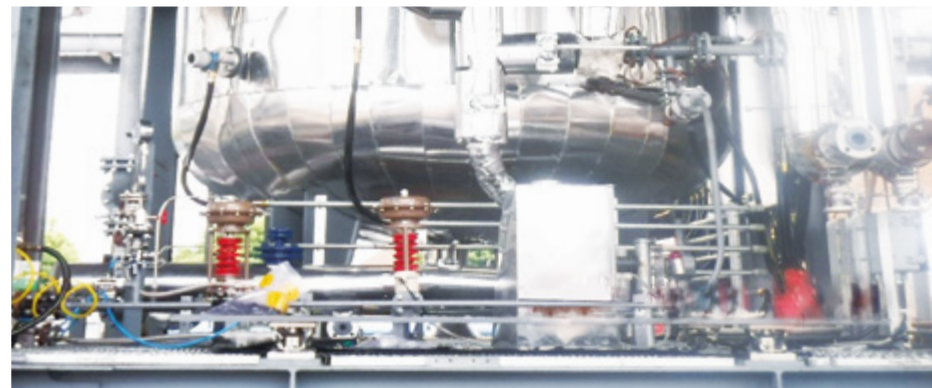
On 9 March 2021, Laura Sun and Felix Fan, both Senior Vice President of SUEZ Asia, met with Yao Yong, Director of Xi'an CAIB Administrative Committee.

Sharing of SUEZ Asia Innovation Trophy 2020 'Best Innovation Award' projects



Nantong SITA Waste Services Limited

F22 Catalyst Treatment Facility



Arkema, SUEZ's strategic partner, has a plant in Jiangsu that specialises in the production of refrigerants with various performances. F22 is one of them. Catalysts are used in the F22 production process. Waste catalysts are packaged in steel cylinders and exhibit good fluidity when the temperature is higher than 25°C. Yet, in a semi-solid state at low temperatures, they will react violently with water to generate hydrochloric acid and thus can neither be treated using the shredder system nor be sent to the liquid waste storage tank.

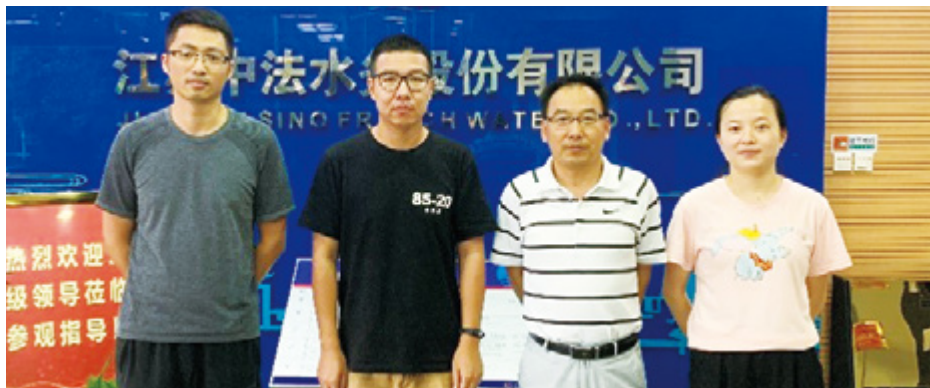
The project team decided to use chloroform to dissolve the catalysts for greater fluidity at low temperature, and a solvent circulation system to fully dissolve the catalysts to improve the utilisation rate of the solvent.

The remaining contents in the cylinder is only 1.2% of the original weight. Most of the facilities are integrated on the movable skid and then dragged into the direct burning station before use, without any need for a new site, thereby making it easier to set up and review new projects. The facilities can also be moved away from the production zone when not in use.



Jiangsu Sino French Wastewater

Smart Wastewater Hydraulic Model System



In this project, operation of the wastewater system is monitored in real time by setting up flow and liquid level meters. Meanwhile, the hydraulic model of the wastewater pipe network is developed for online simulation and analysis. It can realise real-time assessment of the entire wastewater network operation, establishing an efficient work mechanism by combining event screening, event diagnosis, system analysis and decision-making aid to assist in the development of long-term work plans and reliable contingency plans. The software is re-developed to support model transfer from PC end to BS end. The project innovates in the following four aspects:

- real-time monitoring of the wastewater network performance through online calculation of the hydraulic model;
- real-time monitoring of equipment and devices and setting up of a mechanism to evaluate the reliability of equipment and devices;
- breaking data barrier between water supply and drainage, managing the drainage system based on water supply data, and improving the accuracy of water balance analysis;
- assessment of overflow and siltation risks of the wastewater system based on online model, providing analysis for operation and maintenance plans.



Treatment Infrastructure

First Application of ABR+2-stage Oxyblue™ in Shenghong Petrochemical Industrial Wastewater Treatment Project



In China, it is common to use AOP and multi-level AOP treatment process for wastewater of high density hard COD. Shenghong Petrochemical Project requires an RO concentrate discharge limit of 30mg COD/L, which is the strictest requirement SUEZ has ever met in industrial wastewater treatment. SUEZ Treatment Infrastructure in Greater China project team decided to adopt ABR+O₃+Flopac+AOP+Flopac in this project to remove the hard COD in brine after process screening and feasibility laboratory tests. The Shenghong Petrochemical Project is SUEZ's first success case in China to adopt the ABR+2 stage Oxyblue™ process.

- ABR is a green wastewater treatment process which uses high efficient microorganism to remove hard COD. The whole process hardly produces sludge, and does not cause secondary pollution. The OPEX is 20% of that of ozone technology.
- Except for hard COD removal, the ABR process can also remove NH₃-N. In this case, there is no need to have the biofiltration process, an optimisation of the treatment process.

We care for environment

SUEZ Asia's JVs
planted trees on
Arbor Day to mitigate
greenhouse effect.



SUEZ Taiwan
conserved pyrophytes
in the local wetland.



We care for resources

Jing'an District People's Government of Shanghai Municipality awarded a plaque to SUEZ Shanghai Office for being 'Model Enterprise in Domestic Waste Sorting'.



Island West Transfer Station won the 'Diamond Award' in Incentive Scheme for Source Classification of Industrial and Commercial Waste.



Macao Water encouraged its staff to sort food waste for further recycling to compost.



We care for community



- ◀ Macao Water launched a subsidy programme to repair water supply facilities in low-rise buildings. The initiative will subsidise water supply facility maintenance and repair costs incurred by owners of aged low-rise apartment buildings. 400 to 500 residential buildings will benefit from the programme in the coming three years.

MOP10 million
in funds

5,000 households
to benefit



- ◀ SCIP Sino French supported local students through work placement to facilitate their future employment.



- ◀ Tanzhou Water staff cleaned up trash along the mountain path to keep the environment clean for visitors.

SUEZ Asia GRIT Talent Development Programme

6 months programme
30 participants across Asia

To nurture talents to maintain the corporate competitiveness for future growth, SUEZ Asia and China Europe International Business School are jointly developing the GRIT Talent Development Programme. GRIT stands for Growth, Resilience, Innovation and Talent, which are the main objectives of the programme. The 6-month programme, which integrates the expertise and resources of the business school, will be conducted through online course, case study, face-to-face workshop and action learning in an innovation project. Meanwhile, guidance by an internal mentor will be provided to the participants. The 30 participants in the programme, who have leadership potential, have been nominated by various department heads of SUEZ Asia. They will be granted a certificate after the programme. It is hoped that the participants can improve their personal competence through this programme and put what they have learnt to good use at work to contribute to the Group's future growth.



SUEZ Asia wins two 'Inclusion and Diversity' Awards

SUEZ hosted an online ceremony for 'Inclusion and Diversity' Awards on 20 May 2021. Four categories of awards were included, i.e. 'The Best I&D Ambassador of the Year', 'The Most Committed Network of the Year', 'The Most Inclusive Action of the Year' and 'The Best Gender Balance Progress', with 3 winners in each category – Staff's Favourite, Grand Prize and Special Prize. Macao Water won the Special Prize in 'The Most Inclusive Action of the Year' category and SUEZ Asia won Grand Prize in 'The Best Gender Balance Progress' category.



Macao Water wins Special Prize for 'Most Inclusive Action'

Macao Water has been supporting Macau Special Olympics for 16 consecutive years. The event gives athletes a chance to mingle and helps draw the public's attention to the disadvantaged community, promoting the values of equality and social inclusion.



SUEZ Asia wins Grand Prize for 'The Best Gender Balance Progress'

Recognising SUEZ Asia's efforts in maintaining a high ratio of female staff in total headcount and among managers. The key actions are:

- recruiting female staff in various positions
- caring for the wellbeing and work-life balance of female staff
- supporting the career development of female staff

Conflicts of interests

A conflict of interest is a situation in which the judgement of a person who is acting in a professional capacity may be influenced by a secondary interest, distinct from that of the company.

This is the case when an employee finds himself or herself in a situation where he or she might make a decision not on the grounds of his/her company's interests, but, notably, on the grounds of personal interests, or interests of a relative or friend. This is particularly sensitive if you, or someone close to you, have interests in a company or body that is a client, competitor or supplier of the company. **You should report to your management any potential conflict of interests you may have.**

Examples of conflict of interests

- Accepting gifts and entertainment disproportionate to normal practices;
- Purchasing services or approving quotes from companies managed by family members or friends;
- Favouring business deals with companies in which you have a financial investment.

Question

It is your job to review various suppliers' bids for a project. You realise that a friend of yours is the CEO of one of the companies that have submitted bids. In your opinion, what should you do in the situation?

Answer

The first thing to do is to consult your management and / or the ethics manager of your entity. They will be able to tell you how to proceed to ensure the conflicts of interests is properly managed and avoided.



any questions, please send email to:
ethics.asia@suez.com

SUEZ Safety Week

In Safety Week this year, SUEZ Asia demonstrated the 'Ten Life-Saving Rules' to its staff with the help of VR experience to identify and correct unsafe practices.



From April 26 to 29

SAFETY WEEK



RISKS OF

FALLING FROM HEIGHT OR

ON THE SAME LEVEL

At SUEZ, safety is EVERYWHERE, ANYTIME, WITH AND FOR EVERYONE



Sharing of H&S Good Practices



1 Wearing an inflatable life jacket during operation of water treatment plant

In water treatment plants where TI is conducting the trial run, the staff wear a new type of life jackets (black-coloured one as shown on the left). Compared with the traditional life jackets (in orange), the new type has the following advantages:

- Being lighter and smaller, it is easier to wear and will not affect one's movement;
- In the event of falling into water accidentally, the life jacket can be easily used with the help of automatic or manual inflation within 3 seconds.



2 Audio and visual safety alerts for working cranes

Chongqing Sino French Water uses audio and visual safety alerts to draw the workers' attention to the working crane so that they can avoid the operation area and keep away from the load. 'Do not walk or stand under a load', which is one of the 'Ten Life-Saving Rules', is projected onto the floor in the operation area, while the working crane also plays the audio alert 'watch out, crane is working'.



焦点新闻

苏伊士参加上海环博会
携手同行推动中国环保行业发展

03



集团动向

苏州污泥项目
投产 10 周年

08



创新

苏伊士亚洲 2020 年创新奖
最佳创新项目分享

17



企业关怀

我们热爱环境

19



员工天地

苏伊士亚洲获两项
“包容及多元共融”奖

23



职业道德

利益冲突

24



职安健

苏伊士安全周

25

苏伊士新签工业园区污水处理服务项目 拓展福建环保市场



10,000 立方米 / 日

营运中的一期设施处理能力

20,000 立方米 / 日

2025 年建成二期设施总处理能力

苏伊士通过旗下合作公司江苏中法水务与福建省邵武市签署协议，取得邵武吴家塘污水处理有限公司 51% 的股权。根据协议，该合作公司将负责邵武市金塘工业园区污水处理厂的运营管理和技术改造，为金塘工业园及附近镇区提供优质的工业污水处理服务，保护河流的水生态环境。

苏伊士获多项 设备供货和 技术服务合约

西安航天城

连云港徐圩石化产业园

扬州经济技术开发区

苏州恒力（昆山）
国际新材料产业园

珠海金湾



为航天城内的工业及饮用水项目提供 DensaDeg™ 高密度沉淀池和 Aquazur® V 型滤池工艺设备供货及技术服务

水处理量为 5 万立方米 / 日



为盛虹集团的炼化污水处理厂提供设备供货及工艺设计
主要采用两级 Oxyblue™ 以去除污水中的难降解有机物，
提升出水水质



为扬州中法污泥处置项目提供 Innodry® 2E 两段式干化系统设备和技术服务

把低含水量的干化污泥送到热电厂焚烧发电，
实现资源化利用



为红旗镇污水处理厂提供 DensaDeg™ 高密度沉淀池和 Biofor™ 生物滤池系统核心工艺设备供货及相关技术服务

- 远期达到地表水准 IV 类水质标准

- 污水处理量 10 万立方米 / 日



为园内一座 1.44 万立方米 / 日的原水处理站和一座 2,400 立方米 / 日的污水处理站提供高效的全流程工艺包设计、设备供货及技术服务

污水水质达一级 A 排放标准，以减少对环境的影响



苏伊士参加上海环博会 携手同行推动中国环保行业发展

苏伊士参加在 2021 年 4 月 20 日至 22 日举办的上海环博会，与全球 24 个国家及地区的 2,157 家环保企业分享最前沿科技产品和技术方案，全方位展示其水和污水、固废、大气、土壤行业的创新成果，携手行业伙伴推动中国低碳时代环境产业发展。

苏伊士亚洲高级副总裁孙明华参加同期举行的中国环境技术大会，以“深入打好污染防治攻坚战建设美丽中国”为题，与业界同行对话，共同探讨“‘十四五’环保产业新使命”。



访客

81,957

产品和技术介绍

12

重要潜在客户会晤

60⁺



苏伊士与合作伙伴引领行业创新 发布可持续发展系列新产品

在上海环博会开幕首日，在苏伊士的展台上，新秀丽集团大中华区总裁马瑞国、利安德巴塞尔中国合资企业管理及聚烯烃业务副总裁付立民、苏伊士亚洲地区固废资源管理固废基建及新服务业务总监古山主持揭幕仪式，携手推出由回收塑料制成的可持续发展系列旅行箱，赋予塑料废弃物第二次生命，缓解全球性的塑料垃圾危机。





苏伊士参展西洽会

2021年5月20日至23日，苏伊士应邀参加在重庆举办的第三届中国西部国际投资贸易洽谈会（简称“西洽会”），分享苏伊士最新的环境解决方案以及集团在中国西部的主要项目和案例，并与到访政府和企业代表就西部地区环保事业发展及未来潜在合作机会进行交流。



苏伊士在中国水业企业评选中获多个奖项



2021年4月1日，在“水业战略论坛”上，揭晓了2020年度水业企业评选结果，苏伊士在中国自第一届评选以来连续18年蝉联“十大影响力企业”。合作公司澳门自来水和江苏中法水务也蝉联“最具社会责任服务企业”。



苏伊士亚洲地区高级副总裁范晓军在水业战略论坛上介绍集团的业务。



重庆中法唐家沱污水处理厂被评为“全国污水厂比选双标杆”。



苏伊士在同期举办的展会上展示了被誉为水行业的百科全书的苏伊士《得利满® 水处理手册》以及多项可持续解决方案。

苏伊士集团完成对苏渝公司非控股权益的收购

有关 2021 年 1 月 11 日收购新创建集团间接持有苏渝公司 50% 股权一事，苏伊士集团宣布在 2021 年 5 月 11 日正式完成交割。

在收购新创建集团在苏渝的 50% 股权后，苏伊士目前拥有苏渝公司 100% 的股权。本次交易的最终交易合计对价约为 2.53 亿欧元。2019 年，苏渝公司的息税折旧及摊销前利润和净收入合计约 3,200 万欧元。

苏伊士集团预计，此次收购将在 2021 年增加经常性净收入和经常性自由现金流。

苏渝

2015 年，苏伊士集团和新创建集团通过双方持股比例为 50/50 的合资公司苏渝，与重庆水务资产公司签署合作协议，共同成立德润环境。

德润环境持有重庆水务集团 50.04% 的股权和重庆三峰 43.86% 的股权，是中国水务和固废综合业务的领先集团和投资平台，有助大力加速重庆地区创新解决方案的开发和实施。

收购新创建集团在苏渝的 50% 间接股权后，苏伊士集团持有德润环境 25.1% 的股权。通过增加其所有权，苏伊士集团正加强与重庆水务资产公司的合作伙伴关系，也将与当地政府及其合作伙伴携手合作，继续开发和实施先进的解决方案，以优化对水和污水处理的管理。

苏州污泥项目投产 10 周年



苏伊士旗下苏州工业园区污泥处置及资源化利用项目在 2021 年 4 月 15 日庆祝投产十周年。作为循环经济典范，该项目经验已成功推广到江苏扬州、苏州相城等地，成功提升长江经济带城市对污泥处置的能力，支持各地保护长江流域水资源。

十年以来，项目每天 24 小时连续稳定运行，累计处置湿污泥近 120 万吨，产生干污泥约 30 万吨，相当于提供电厂标准煤 11 万吨，减少因燃煤产生的二氧化碳排放 28 万吨，节约脱盐水 75.6 万吨，节约污泥填埋土地 100 公顷。

产业协同效应：循环经济典范
第三方治理：中国典型案例

10 年来所取得的成就：

处理湿污泥

120 万 吨

二氧化碳减排当量

28 万 吨

节约标准煤

11 万 吨





香港新围污水处理厂扩建项目顺利投运

由苏伊士及合作伙伴安乐和中国港湾共同设计建造的香港新围污水处理厂扩建项目在 2021 年 3 月 6 日正式投运，并由上述三方组成的合作公司负责污水处理厂未来 10 年的运营和管理。扩建后的污水处理厂的处理能力提升到每日 20 万立方米，能满足元朗区人口增长和城市发展的需求。

设施处理能力

20 万 立方米 / 日

合同期

10 年



澳门半岛污水处理厂提标改造项目竣工投运

由苏伊士和 WATERLEAU 公司组成的合作公司于 2019 年 1 月 1 日开始实施澳门半岛污水处理厂优化、运营及保养项目，包括接管现有污水处理厂的运营，更换全新的设备以提升运营绩效以及兴建日处理能力达 6 万立方米的新处理设施。新设施于 2021 年 3 月 1 日正式投运。合作公司将于 2023 年 7 月 31 日前为整个污水处理厂提供运营及维护服务。

总处理能力

20.4 万 立方米 / 日

南通升达获签长期危废处置合同

2021 年 4 月 28 日，南通升达与客户南通新宙邦电子材料有限公司签署合同，将为客户提供 10 年的危废处理服务，确保工业危废得到安全有效的处理，推动经济和环境协同发展。南通新宙邦电子材料有限公司主要从事研究、生产和销售电容器、电池专用化学材料、有机光电材料等。



台湾澄清湖净水项目庆祝产水量突破 20 亿吨

2021 年 3 月 8 日，由苏伊士运营的台湾澄清湖净水厂项目举办晚宴庆祝 17 年来累计产水量突破 20 亿吨。台湾自来水公司第七区管理处处长以及合作伙伴中宇环保工程公司董事长出席了晚宴。



苏伊士亚洲两项目获苏伊士 2021 年创新奖

苏伊士 2021 年创新奖颁奖典礼以网络直播的形式在 4 月 15 日进行，在 150 个参赛项目中评选并揭晓了七大奖项类别（健康及生活质量、减少碳排放、提升绩效、循环经济、保护自然资源、数字化以及人类福祉）共 14 个获奖项目及一个员工最喜爱项目，其中两个来自苏伊士亚洲。



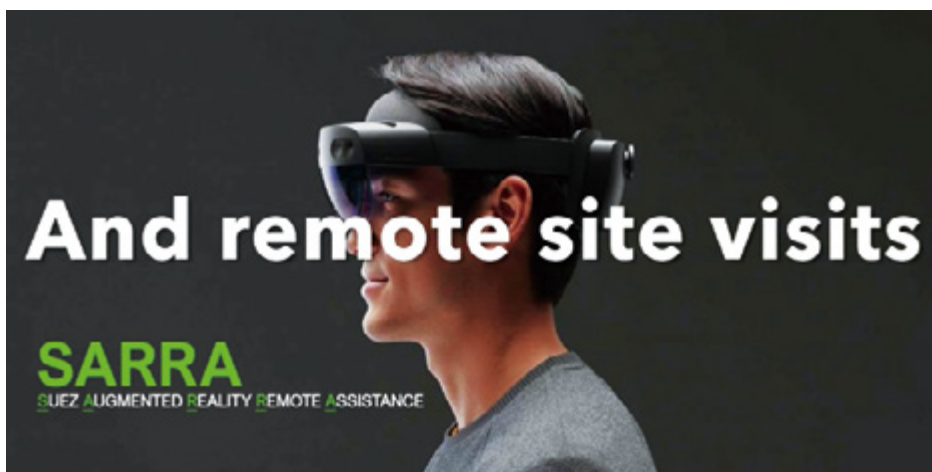
苏伊士亚洲水务工程 Dehydris Ultra 获“提升绩效类别”二等奖

此设施有以下优点

- 把湿污泥干化至含水量为 35% 的干污泥
- 回收利用能源，实现能源自给自足
- 全天候自动运作
- 把污泥转化为资源

苏伊士亚洲固废资源管理加强版虚拟实景遥距支援系统（SARRA）获“数字化类别”大奖

苏伊士在泰国建设亚洲首座循环聚合物设施时，因新冠肺炎疫情，国外专家不能到现场指导设计建造及运营，因此，团队开发了加强版虚拟实景遥距支援系统（SARRA）。此设备还能推广应用至智慧建设、智慧维护以及智慧运营领域。



苏伊士亚洲 两项目获苏伊士 WINZ 大奖

苏伊士在 2021 年 3 月 9 日首次举办 WINZ 颁奖典礼，嘉奖苏伊士销售团队去年在疫情影响下仍然赢得多个重大项目。活动设置了五大类别的奖项：标志性大型项目、体现团队精神项目、创新项目、苏伊士宗旨最佳体现项目以及最受欢迎项目。苏伊士亚洲两个项目分别在两类别获得大奖。

盛虹工业污水处理项目 获得“创新项目”类别大奖



苏伊士为盛虹炼化位于连云港徐圩石化产业园处理规模为 7.92 万立方米 / 日的污水处理厂提供工艺设计设备供货以及技术服务。项目采用创新的嵌入式污水处理厂的设计理念，从设计之初把污水处理工艺和石化工艺充分结合形成整体，将本该当作废弃物处置的“水、气、渣”作为可利用的资源，回用在污水处理流程中，以“废”制“废”，实现变废为宝。除了可以大量节省运营成本外，每年减少碳排放 8,123 吨。

菲律宾 Calawis 水处理项目 获得“体现团队精神项目”类别大奖



苏伊士多个团队的紧密合作是该项目成功的关键，其中包括苏伊士亚洲水务方案团队、苏伊士东南亚团队以及菲律宾当地的团队、水务工程团队以及 UCD 项目团队。他们为客户提供了满意、优质的服务，充分体现了苏伊士四大核心价值之一的“团队精神”。

以下为项目的特点：

- 在山上开发了可持续的新水源
- 菲律宾最大的模组水处理厂
- 满足 1,400 万居民的用水需求



苏伊士亚洲七家实验室获评为 “苏伊士参考实验室”

在两年一度的苏伊士全球实验室比对测试中，苏伊士亚洲 7 家实验室获评为“苏伊士参考实验室”，占全球 13 家获此奖项的实验室半数以上。

获此奖项的实验室包括

保定中法、重庆中法供水、江苏中法水务、
澳门自来水、上海化工中法凯米锐、塘沽中法、坦洲自来水。

苏伊士四工程项目获评中国“水业企业案例”

2021 年 4 月，苏伊士四工程项目获评为“2020 年度水业企业案例”。评比活动由国内具影响力的 E20 环境平台发起，并邀请业内专家进行评选。

南京桥北污水处理
厂反硝化深床滤池
项目

执行国内目前最严苛
的总氮去除标准

恒力炼化一体
化工业污水处
理项目

“以废治废”
资源循环利用

珠海高栏港区石化
园区工业污水处
理项目

达到地表准四类水排
放标准

万华聚氨酯产业链
一体化工程乙烯废
水处理项目

臭氧尾气回用，实现
循环经济



专家交流

尽管受新冠疫情影响，在 2021 年第二季度，苏伊士亚洲组织了多个会议及接待了不同的代表团，以加强技术交流和增进与外部利益相关者的沟通。



澳门

2021 年 4 月 29 日，澳门自来水召开客户联络小组会议，收集利益相关者对供水服务及企业发展政策的意见，包括讨论“低层楼宇总供水设施维修资助计划”的实施；报告新建的石排湾水厂工程进度；以及推行中水回用等。



新加坡

新加坡水协藉着世界水日在 2021 年 3 月 17 日为纪录片 Brave Blue World 举办首播仪式以及水务研讨会。苏伊士作为活动的赞助商，在会上分享了集团如何应对气候变化以及保护水资源。



台湾

2021年4月22日，台湾国立彰化师范大学EMBA学会成员，包括中部地区各大企业负责人、高阶主管及民意代表，参观苏伊士台湾大发废转能设施，并与运营管理团队进行交流。



重庆

2021年4月14至17日，中国城镇供水排水协会组织会员到重庆中法供水及重庆中法唐家沱参观，了解智慧水务及资源循环利用，如尾水发电、沼气利用等优秀做法。



首尔

2021年5月31日，苏伊士集团高级执行副总裁 Ana Giros 参加了2021年首尔P4G峰会中“碳中和智能水管理促进气候弹性”的小组会议。



西安

苏伊士亚洲创新团队于2021年4月27日至28日访问西安交通大学。双方就环保技术进行了交流，并探讨了未来在创新和研发方面的合作。



南通

2021年5月13日，江苏省人大常委会委员、环资城建委主任汪泉一行到访南通升达，检查危废处置过程中的安全保障措施以及污染物排放情况。



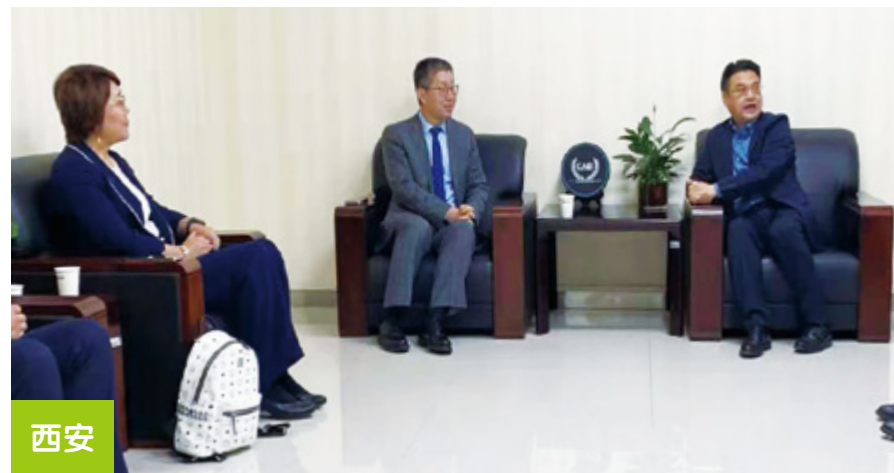
苏州

2021年4月28日，苏州市委副书记朱民一行到苏州中法环境，调研污泥处理项目。



珠海

2021年4月13日，珠海市水务局局长贺军一行到访澳门自来水进行水务工作交流。



西安

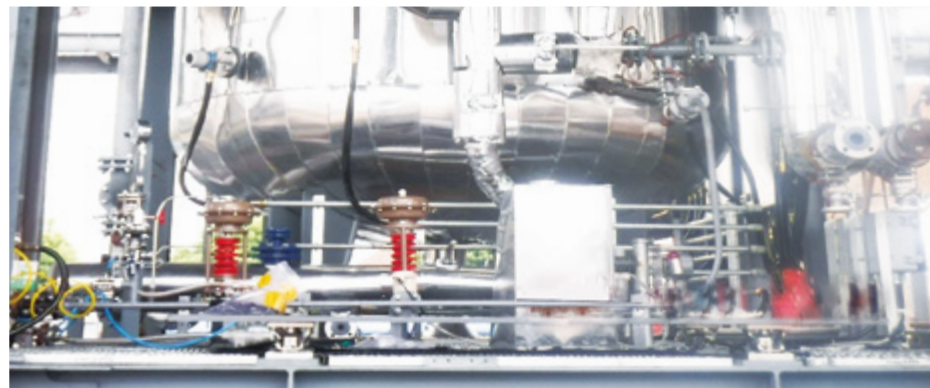
2021年3月9日，苏伊士亚洲地区高级副总裁孙明华和范晓军一行拜访西安航空基地开发区管委会主任姚勇。

苏伊士亚洲 2020 年创新奖 最佳创新项目分享



南通升达废料处理有限公司

F22 催化剂处理装置



苏伊士战略合作伙伴阿科玛中国江苏的工厂专业制作各种性能的制冷剂，F22 是其中一种。在生产过程中需要使用催化剂。催化剂使用钢瓶包装，温度高于 25 度时呈现良好流动性，低温状态下为半固体状态，与水会发生剧烈反应，生成盐酸，无法使用破碎系统或进入液废储罐，处理难度十分高。

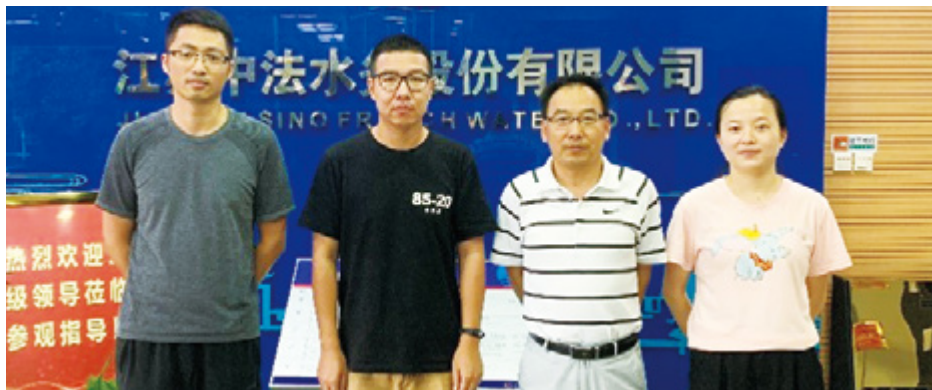
项目团队使用三氯甲烷溶剂溶解催化剂，增加其在低温下的流动性；并使用溶剂循环系统，使催化剂能充分溶解，提高溶剂的利用率。

残余在钢瓶内的物质重量仅为原重的 1.2%；最后将大部分的设备集成在可移动的撬块上，使用前，拖入直烧站台，不需建设新场所，减少新项目设立和审核难度，同时不处理时可撤离生产区域，不占用地。



江苏中法污水

智慧污水水力模型系统



项目通过布设流量和液位计，实时监测污水系统运行情况，同时构建污水管网水力模型实现在线模拟分析，实时对整个污水管网运行情况进行评估，建立事件甄别、事件诊断、系统分析和辅助决策的高效工作机制，辅助制定长期工作计划以及可靠的应急方案，以达到水质提升，污水系统长期稳定安全运行的目标。同时将模型软件二次开发，实现模型从 PC 端向 BS 端转移。主要创新点体现在以下四个方面：

- 实现了水力模型在线计算，可实时评估污水管网运行健康状态；
- 基于实时监测数据，建立一套监测设备评估机制，对设备可靠度开展实时评估，并形成评估反馈；
- 打通了供水量数据和排水量数据之间的壁垒，实现了“上水管理下水”，提升了污水系统水量平衡分析的准确性；
- 基于在线模型，评估污水系统的冒溢风险和淤积风险，掌握风险长期趋势和变化情况，辅助制定运行维护计划。



水务工程

ABR+ 两级 Oxyblue™ 在盛虹石化项目中的首次联合应用



在国内，处理难降解 COD 浓度高的污水，多采用高级氧化或多级高级氧化组合技术为主的工艺路线。针对盛虹石化项目要求反渗透浓水处理线出水 COD 排放限值 30 毫克 / 升，苏伊士在工业污水处理领域遇到最高的要求，苏伊士大中华区水务工程项目团队经过大量的工艺筛选对比以及实验室测试，创新性地采用 ABR 与两级 Oxyblue™ 联用的组合工艺，即“ABR+O3+Flopac+AOP+Flopac”作为处理浓盐水难降解 COD 的核心技术。这个项目成为了苏伊士在中国应用 ABR+ 两段式 Oxyblue™ 工艺的首个成功案例。

- ABR 高效生物反应器是绿色的污水处理技术，通过高效生物菌种的生物降解能力去除污水中的难降解 COD，几乎不产生污泥，无二次污染，运行成本仅为臭氧技术的 20% 以下；
- ABR 在去除难降解 COD 的同时兼有去除氨氮的功能，节约了一级除氨氮的生物滤池工艺，优化了整体工艺路线。

我们热爱环境



苏伊士亚洲的合作公司在植树节当天进行植树活动，以缓解温室效应。



苏伊士台湾保育湿地原生植物。



我们珍惜资源

上海市静安区人民政府天目西路街道向苏伊士上海办公室授予“生活垃圾分类示范企业”牌匾。



港岛西垃圾转运站获工商业废物源头分类奖励计划钻石奖。



澳门自来水推出厨余分类回收计划，鼓励员工于餐厅用餐后进行厨余分类回收，再造成堆肥。



我们关爱社区



- ◀ 澳门自来水推出“低层楼宇总供水设施维修资助计划”，助高龄低层大厦维修有问题的公共供水设施。预计三年内可资助 400 至 500 幢住宅楼宇。

澳门元 1,000 万

维修基金

5,000 户居民

受惠



- ◀ 上海化工中法支持上海青浦区世界外国语学校梦田计划，为学子提供一个与企业互动的机会，让他们体验不同的工作，为未来就业铺路。



- ◀ 坦洲自来水组织员工在行山径收集清理垃圾，让行山人士享受洁净的郊野环境。

苏伊士亚洲推行 GRIT 人才发展计划

计划历时

6 个月

来自亚洲地区

30 个参与者

为了培养更多的集团人才精英，保持企业竞争力，苏伊士亚洲与中欧国际工商学院合作，在 2021 年 5 月至 11 月共同合办 GRIT 人才发展计划。GRIT 是英文 Growth（增长），Resilience（韧性），Innovation（创新）以及 Talent（人才）的缩写，表明课程设计的目的。此人才发展计划充分利用了中欧国际工商学院的专业师资和其他资源，通过一系列的网上课程、案例分析、工作坊以及创新项目实践学习对学员进行培训；同时，学员亦可以在培训期间接受公司内部导师指导。这批 30 位由苏伊士亚洲各部门主管推荐的、具领导潜质的学员，完成培训后将获得证书。集团希望学员通过课程能提升个人能力，之后在自己的工作岗位上学以致用，回馈企业，促进企业发展。



苏伊士亚洲获苏伊士两项“包容及多元共融”奖

苏伊士在 2021 年 5 月 20 日以线上形式举办“包容及多元共融”颁奖典礼，嘉许在四大类别有突出贡献的个人和团队，包括“最佳包容及多元共融使者”、“最具责任感网络”、“促进共融最佳行动”以及“性别平衡飞跃进步”。每个类别都设置三个奖项，分别是“员工最喜爱奖”、“大奖”以及“特别奖”。澳门自来水获得“促进共融最佳行动”特别奖；苏伊士亚洲获得“性别平衡飞跃进步”大奖。



澳门自来水获 “促进共融最佳行动”特别奖

澳门自来水连续 16 年支持澳门举办特殊奥运会，为特奥学员提供参与社会活动的机会，同时引起社会对弱势群体的关注，弘扬平等共融的理念。



苏伊士亚洲获 “性别平衡飞跃进步”大奖

表扬苏伊士亚洲保持女性员工在总体员工数量以及在管理人员数量的高比例，主要通过以下方式实现：

- 积极招聘女员工
- 注重提升女性员工的福利及帮助她们实现工作生活平衡
- 支持她们实现职业生涯规划

利益冲突

利益冲突是指当个人以专业能力进行判断时可能受到公司利益以外的其他因素影响的情况。

员工做决定的依据并非基于其所在公司的利益，而是明显考虑了其个人利益或者其亲戚朋友的利益，这就是利益冲突。如果你或者某个与你关系密切的人与公司的客户、竞争对手或供应商有利益关系时，这一情况尤为敏感。如果发现任何可能存在的利益冲突的情况，你都应该向管理层报告。

利益冲突的例子

- 接受超过合理价值的礼物和娱乐活动；
- 选择你家庭成员或朋友管理的公司提供服务或进行采购；
- 与你的财务投资公司进行偏袒性的商业交易。

问题

你正在审查供应商的投标书，发现你的一位朋友是其中一家参加投标公司的首席执行官。在这种情况下，你该怎么做？

答案

首要的事情是咨询你的主管和 / 或所在运营单位的道德主任。他们可以告诉你如何正确地管理和避免利益冲突。



如有任何疑问，请发电邮至：
ethics.asia@suez.com

苏伊士安全周

在今年的苏伊士安全周，苏伊士亚洲利用虚拟现实的设备让员工体验“十项救命法则”的情景，识别和纠正不安全行为。



4月26日至29日

苏伊士安全周



预防

高处坠落

以及

绊跌摔倒

在苏伊士，安全无处不在，时刻伴随着你、保护着你！



职安健优秀做法分享



1 在运行中的水厂内 穿着救生衣

在水务工程试运营的水厂中，工作人员使用了一款新型救生衣（左图所示的黑色款式）。相比传统的救生衣（左图所示的橙色款式），有以下优点：

- 新款救生衣更加小巧轻便，方便穿着，且穿上后不会影响行动；
- 救生衣使用简单，不慎落水后在 3 秒内便能自动或手动充气。



2 起重机安全管理 “声、色”安全提示

重庆中法供水创新性地使用起重机械安全管理“声、色”安全提示，让工作人员避开起重机作业区域，不要靠近吊物。做法是使用 LED 投影技术将“救命法则”中“不要在吊物下行走或停留”的图标投射在起重机作业区域的地面上，声光报警器在起重机启动时及运行过程中发出“行车运行、注意安全”的语音提示。