

SUEZ ASIA Essential

W I N T E R 2 0 2 0





(From left) Jerome Le Borgne, Southeast Asia Project Development Director Recycling and Recovery SUEZ; Olivier Richard, French Consul in Thailand; Krittika Panprasert, Director of Tax Incentive Bureau, Thai Customs Department; Sumate Teeraniti, Deputy Governor of Samut Prakarn Province; Sakchai Patiparnpreechavud, Vice President, Chemicals Business, SCG and Polyolefins and Vinyl Business; Amnuay Suwannarak, Director of Samutprakarn Industrial Works, Samut Prakan Provincial Industrial Office; and David Bourge, General Manager of SUEZ Circular Polymer Thailand, officiated the opening ceremony of SUEZ Circular Polymer Plant in Bang Phli.



SUEZ announced the official opening of the SUEZ Circular Polymer Plant in Bang Phli, Thailand – the Group's first plastic recycling plant in Asia, on 3 December 2020. It underscores SUEZ's commitment to improving the environment and building a more sustainable society despite the unprecedented times we are in due to COVID-19. The plant converts 30,000 tonnes of Thailand's plastic packaging waste a year into Post-Consumer Recycled (PCR) plastic as a long-term solution to the plastic pollution crisis. It also has one of the highest water reuse rates for recycling plants in Thailand at 94%, and avoids 35,000 tonnes of greenhouse gas emissions annually, equivalent to planting of 1.5 million trees.

30,000 tonnes / year

plastic waste in Thailand converted into PCR plastic

94%

water reuse rate

35,000 tonnes / year

greenhouse gas emissions avoided



The SUEZ Circular Polymer Plant recycles low-density polyethylene (LDPE) and linear low-density polyethylene (LLDPE) plastic. It is one of Thailand's largest LDPE recycling plants and operates in the highest level of compliance. It is strongly supported by the experience of specialists from PLAST'lab®, SUEZ's plastic laboratory originated from France, that allows the plant to qualify, characterise, measure and formulate new recycled plastics to fit customers' specific needs.



Steve Clark
CEO of SUEZ Asia

We need to rethink the ways we use and treat plastic. While plastic brings convenience to our everyday lives, it comes with the alarming consequence of millions of tonnes of waste in our oceans, resulting in adverse environmental impact and health effect as well as resultant economic losses. We call for a long-term approach and such solutions already exist in our communities today. We are excited to open the Group's first plastic recycling facility outside of Europe that will help encourage Southeast Asia to transform towards a circular economy and reverse the tidal wave of plastic pollution crisis.

SUEZ partners with INVISTA to promote industrial sustainability



25 years
wastewater treatment
and water supply
services contract



15 years
Hazardous waste
disposal services
contract

SUEZ and INVISTA signed a 15-year contract to expand their cooperation on hazardous waste disposal services for INVISTA's 400,000-tonne adiponitrile (ADN) project. In addition, both parties signed another 25-year contract for wastewater treatment and water supply services in Shanghai Chemical Industry Park (SCIP) to satisfy the services request from INVISTA's full production line in the Park. This is a model case of customised and localised services that SUEZ offers to key industrial clients around the world. More importantly, it is an embodiment of SUEZ's firm commitment to a sustainable environment through the implementation of its 'Shaping SUEZ 2030' strategic plan.

SUEZ Partnership with INVISTA

In water business, this project marks another successful partnership between SUEZ and INVISTA since their first collaboration in 2014. It provides a safe and stable wastewater treatment and water supply solution, tailored to INVISTA's industrial wastewater profile across multiple streams of discharge.

In waste management, the new contract is the third agreement between SUEZ and INVISTA, following two previous partnerships in China in 2015 and in North America in 2019. Given the special properties of adiponitrile waste, which is highly viscous and reactive to water and moisture, SUEZ is committed to making dedicated upgrades to its existing production lines in SCIP. This will have the benefit of supporting INVISTA, as well as the park, in their pursuit of the highest environmental standards.

More About INVISTA

INVISTA is one of the world's largest integrated manufacturers of chemical intermediates, polymers and fibers. In SCIP, it has a HMD plant, a Polymer plant and the expansion of the Polymer plant. Its new adiponitrile project, designed primarily for manufacturing nylon intermediates, is expected to start up in 2022. At that point, Shanghai will have a complete industrial value chain from adiponitrile to high-performance polymers, and the city will be the world's largest integrated production base for nylon 6,6.

SUEZ Asia develops soil remediation business

On 8 September 2020, SUEZ and Shanghai Research Institute of Chemical Industry Company Limited were jointly awarded a soil remediation project by Shanghai Taopu Smart City of Science and Technology Development Construction Company Limited to treat the polluted soil around the drainage pumping station and the reservoir in the core of Taopu Smart City. The contract value is RMB5.28 million. The project was commenced in October and is expected to be completed within 90 days.



◀ SUEZ provides ice pigging services in Taipei

Following the delivery of ice pigging services to the Taipei Water Department for the cleaning of a 20-kilometre water pipe in 2019, SUEZ Smart & Environmental Solutions has been awarded another ice pigging services contract for a 30-kilometre water pipe this year. Despite the COVID-19 pandemic, the team overcame all odds to meet the completion date in early November.

About Ice Pigging

Ice pigging is a SUEZ patented process for cleaning the inside of pipes using an ice slurry. A semi-solid ice slurry can be applied uniquely because it is both pumpable like liquid, but also takes on properties of a solid when a 'pig' of ice slurry is formed within a pipe. It is a highly effective method of removing sediment and biofilm from drinking water pipelines.

SUEZ wins water contracts

Client / WANHUA CHEMICAL GROUP

In Wanhua Yantai Industrial Park, SUEZ provides Wanhua Chemical Group, a Global Top 50 chemical company, with integrated wastewater treatment units and a full-process suite for the tertiary treatment of concentrated wastewater. This is the third joint project between the two companies following successful collaborations in 2017 and 2018.



Technology Highlight

The process is the result of intensive innovation and allows the client to reuse discharged ozone exhaust gas in the aerated biochemical reactor, which enables waste gas recycling and also significantly improves the efficiency of biochemical treatment.

13,000
tonnes per year

COD cut

3,930
tonnes per year

**carbon
emissions reduced**

681,895
kWh every year

**electricity
consumption reduced**



Client / LANZHOU PETRO

Help CNPC to achieve Zero Liquid Discharge (ZLD) of Petrochemical effluents

In Yulin City of Shaanxi Province, SUEZ will be responsible for the whole wastewater treatment process in Lanzhou Petro's Ethane-to-Ethylene project, including saline wastewater treatment line, RO system, brine pre-treatment line, HERO system and crystalliser unit.

Lanzhou Petro's Ethane-to-Ethylene project is a national demonstration project and a key project for PetroChina's business transformation and upgrade. It is the third cooperation between SUEZ and Lanzhou Petro, as well as another zero wastewater discharge project delivered by SUEZ to industrial clients following the collaboration with Zhongtian Hechuang. SUEZ has worked with many renowned companies in China to develop the pre-treatment process package for zero wastewater discharge to ensure high standard of the influent water quality as well as stable operation of the plant.



Client / DALIAN PETRO

Set a benchmark for industrial brine treatment, protect the marine ecological environment

In Dalian City of Liaoning Province, SUEZ signed a contract with Dalian Petro, a branch of PetroChina, to provide process design as well as equipment and technical services to Dalian Petro's comprehensive treatment project of high salinity concentrated water.

The wastewater is high in total nitrogen and hard COD. SUEZ will use Biofor DN and Oxyblue™ to remove hard COD and total nitrogen, which can be removed by more than 86%, to ensure that the effluent comply with the province's direct discharge standard and minimise the impacts on the surrounding coastal area.

SUEZ takes part in first-ever Singapore International Water Week virtual expo

Due to the impact of COVID-19 pandemic to businesses and events worldwide, the annual Singapore International Water Week (SIWW) has been rescheduled to June 2021. To maintain an exchange of know-how and technology in the global water industry, a special online SIWW was held on 18 and 19 November 2020. As the founding sponsor, SUEZ

took an active part in the first-ever virtual event. The event hosted 3,000 participants from 90 countries / regions over two days, with close to 100 international exhibitors and 10 webinars on technology, innovation and solutions on urban water management.



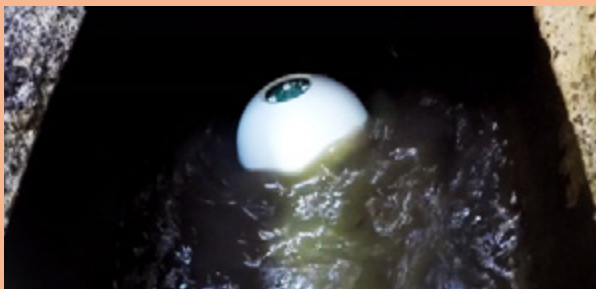
Virtual Booth

SUEZ showcased solutions covering the full water cycle for the municipal government as well as industrial and commercial clients.



Webinar

SUEZ-WTS and SIWW co-organised a panel on the topic of 'Reducing Industry Water Footprint Through Innovation and Corporate Stewardship' to share industrial water solutions.



Exhibitor Showcase

SUEZ presented a first-of-its-kind product in Asia - Sewerball, a levitated sphere with a miniaturised sensor that can detect water flow in sewage pipe networks.



SUEZ participates in IE Expo Chengdu 2020

1 SUEZ took part in IE Expo Chengdu 2020, the largest trade fair on environmental protection solutions in western China, which was held from 13-15 October, showcasing its advanced water and waste management solutions.

2 Chinese Minister of Ecology and Environment and Party Secretary of Sichuan Province visited the SUEZ booth.

3 SUEZ was awarded 'Environmental Chamber of Commerce Member Enterprise With Outstanding Contributions To Combat COVID-19'.

4 Laura Sun, Senior Vice President of SUEZ Asia, delivered a speech titled 'Dual Cycle and New Industry Trend' at China Ecological Environment Industry Summit Forum 2020,

SUEZ serves ten of China's top 30 industrial parks

Among the 20 industrial parks SUEZ serves in China, ten of them are in the list of China's top 30 chemical industrial parks and the following 10 potentials in 2020. Shanghai Chemical Industry Park, one of SUEZ's clients, is on top of the list. SUEZ's project in the Park won the Shared Value Award 2020 for its outstanding performance in sustainable development. The other 9 industrial parks that SUEZ serves are Taixing Economic Development Zone in Jiangsu, Dongying Port Economic Development Zone, Changshu Advanced Material Industrial Park in Jiangsu, Changzhou Binjiang Economic Development Zone in Jiangsu, Gaolan Port Economic Development Zone in Zhuhai, Yantai Chemical Industry Park, Wuhan Chemical Industry Park, Lianyungang Xuwei New District, and Sinopec (Qinzhou) Industry Park [now named China (Guangxi) Pilot Free Trade Zone Qinzhou Port District].

11.3%

In China, 219 national industrial parks have generated 11.3% of the country's GDP



219 national industrial parks account for 11.3% of China's GDP, which manifests that the green development of industrial parks is crucial to the country's economic transformation. SUEZ, a favourable partner for industrial clients, endeavours to assist the industrial parks in pollution prevention and reduction of energy and water resource consumption, leading to lower production costs and lesser impacts on the environment, thus achieving circular economy and low carbon emission.



▲
SUEZ project in Shanghai Chemical Industry Park won Shared Value Awards 2020 for its outstanding performance in sustainable development.

SUEZ ranked among 10 best companies in 'European Women on Boards' (EWoB) Gender Diversity Index

SUEZ was ranked among the 10 best companies on the STOXX Europe 600 in 'European Women on Boards' (EWoB) Gender Diversity Index 2019. The award is an acknowledgement of the company's great efforts and good practices in promoting gender diversity.

SUEZ Asia's commitment in promoting gender diversity



▲ Encouraging family activities through Mother's Day celebration and providing family support.



▲ Supporting professional development of women through role models' sharing.



▲ Encouraging female staff to switch to technical and operations positions through mentoring and sharing of experience.



▲ Destructing stereotypes through Unconscious Bias Workshops.



SCIP SITA laboratory testing capability recognised by overseas organisation

SCIP SITA was rated highly in terms of performance in the International Laboratory Proficiency Testing 2020 organised by a German accreditation organisation. The rating demonstrates the laboratory personnel's exceptional skills in hazardous waste testing and the delivery of precise results.



Macao Water wins several family-friendly employers awards

Macao Water won three awards in the 'Family-Friendly Employers Award Scheme' organised by the Women's General Association of Macau, namely 'Family-Friendly Employer', 'Distinguished Family-Friendly Employer' and 'Support Breastfeeding', in recognition of its effort to create an amiable working environment for its staff.



Waylung's 'Unmanned Entry Submersible Desilting Robot' granted patent

The Hong Kong Patents Registry granted the patent for 'Unmanned Entry Submersible Desilting Robot' V2.0 developed by Waylung Waste Services Limited, which is valid for 8 years. The upgraded version is equipped with less external cable connections so the machine can work inside the sewage pipe with better performance. It also averts the risk of staff working in a confined area. The upgraded model is expected to be completed by the middle of 2021.



Chongqing Sino French Tangjiatuo named benchmark wastewater treatment plant

To celebrate the 100th anniversary of the founding of the People's Republic of China and the CPC, E20 Environmental Platform and 16 leading companies in China's environment industry formed an alliance to evaluate and shortlist 53 benchmark wastewater treatment plants. The aim is to set the benchmark for future development of the wastewater treatment industry. Chongqing Sino French Tangjiatuo is the only plant in Chongqing to be included in the list, an acknowledgment of the plant's precise control in critical processing of wastewater treatment.



Suzhou SIP Sino French named model case of sludge treatment

The Suzhou SIP Sino French sludge treatment project was selected among 22 sludge treatment excellence models in China by the E20 Environmental Platform and the E20 Institute of Environment Industry, by virtue of its effectiveness in energy consumption and resource utilisation.



Macao Water's Seac Pai Van Water Treatment Plant awarded One-Star Green Building Label (GBL)

Macao Water's Seac Pai Van Water Treatment Plant won the One-Star Green Building Label (GBL) awarded by the China Green Building and Energy Saving (Macao) Association. It adopts green ideas in its plant design and applies smart technologies to achieve circular economy and low carbon emission.

SUEZ Asia Innovation Trophy 2020

The Innovation Trophy is an important event in the Group to encourage innovative ideas and practices. This year's event has concluded with a great success.

217
projects



**ENTRIES IN
2020 EVENT**

44%

increase compared with
that of last year

914
participants



**STAFF INVOLVED
IN THE EVENT**

extend the scope to
SUEZ Asia this year

33
joint ventures
involved



**DEPARTMENTS &
JVS INVOLVED**

16

departments
involved

Best Promotion Award 2020 Winning Projects



iAlert2.0 Risk Alert System

Water Operations
Jiangsu Sino French Water



Optimisation of Biofor DN Filter Washing Process and Automation Programme

Treatment Infrastructure



Application of drone in Hong Kong's landfills

Recycling & Recovery
Hong Kong WENT Landfill

Best Innovation Award 2020 Winning Projects

Jiangsu Sino French Water

Smart Sewage Hydraulic Model System

SCIP Sino French

Solution for Diffuser Blockage by Crystallisation of High Salinity Wastewater

Suzhou SIP Sino French

Steam Condensate Comprehensive Utilisation Project Successfully Turns Waste into Treasure

Macao Water

Modularisation and Intelligence of Measurement Uncertainty Evaluation

Chongqing Changshou Sino French

Exploration and Practice of Digital Twins Water Plant Key Technologies in CCSF

Treatment Infrastructure

The First Application of ABR + 2-stage Oxyblue in Shenghong Petrochemical Project

Treatment Infrastructure

MSBR Retrofitting of Changsha Kaifu WWTP Upgrading Phase III Project

Treatment Infrastructure

Taixing EDZ IWTP Project: Online Washing System for O3 Diffuser

Treatment Infrastructure

Apollo - New Project Documents and Information Management System

Treatment Infrastructure

The Improved Design of Automatic Lamellar Washing System for DensaDeg

Nantong SITA

F22 Catalyst Treatment Facility

Hong Kong O-Park 1

Biogas Holder By-pass Operation

Derun

Research on In-situ Ecological Restoration Platform and Related Technologies of Deep Water

Sustainable Waste Management

Digital Solution of On-site Waste Management Services

Taiwan Renwu WtE Plant

Improvement of Soot Blower



SUEZ Asia joins World Cleanup Day activities

SUEZ is the founding member of Alliance to End Plastic Waste. In celebration of World Cleanup Day 2020, SUEZ partnered with the Alliance to organise the ALL_TOGETHER GLOBAL CLEANUP, an international initiative to remove litter from the environment. The participants were encouraged to upload photos of trash they picked via the Litterati App and accomplish the target set in the clean-up challenge. Many joint

ventures and head offices in SUEZ Asia organised cleanups, including SUEZ Beijing and Macau Office, Macao Water, Macao CSR, Taiwan Renwu Plant, Baoding Sino French, Chongqing Sino French Water, Chongqing Changshou Sino French, Chongqing Sino French Tangjiatuo, Jiangsu Sino French Water, SCIP Sino French, Cleanaway SUEZ, Tanzhou Water, Xi'an Sino French, and Suzhou Taihu Sino French.



Exceeded Target

1000+ photos uploaded



400+

participants



600+kg

litters collected





Taihu Sino French



SCIP Sino French



Tanzhou Water

▲ SUEZ teamed up with the European Chamber of Commerce Taiwan (ECCT), the Ocean Affairs Council and the Kaohsiung City Government to organise a beach clean-up at Chiji Beach to further the cause of marine protection in Taiwan. More than 250 participants participated in the clean-up and collected more than 230kg of litter.



Chongqing Changshou Sino French



Jiangsu Sino French Water



Beijing Office



Baoding Sino French



DRAW ME CLEAN AIR

Children's Drawing and Colouring Contest

To enhance public awareness of environmental protection, SUEZ Asia organised 'Draw Me Clean Air' Children's Drawing and Colouring Contest on 7 September 2020, the first-ever International Day of Clean Air for Blue Skies, which allowed children to use their imagination to show the ideal places to live in, where air is pure.

Champion

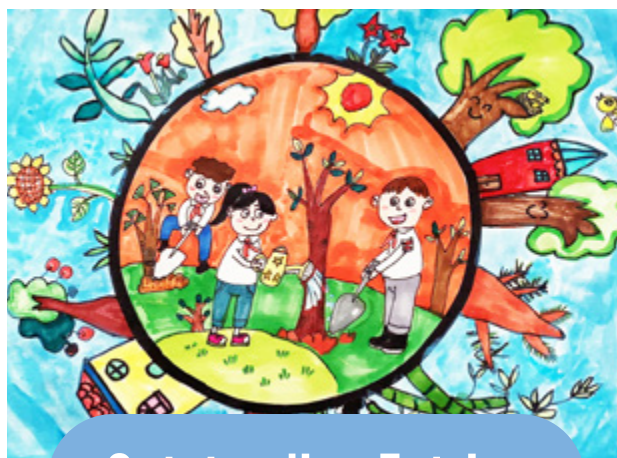


Runner-up

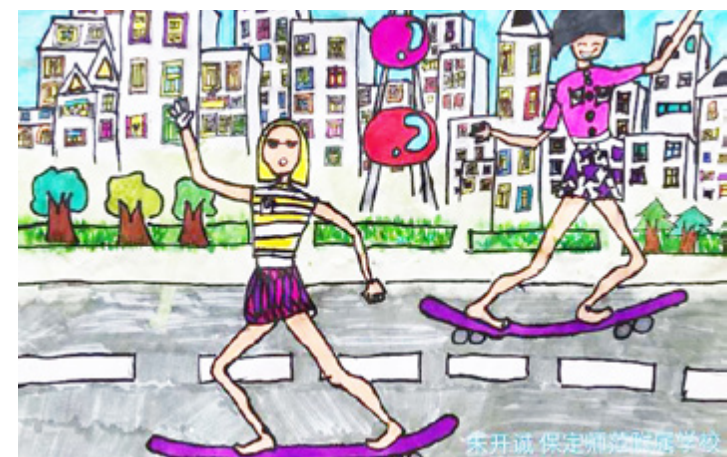


Second
runner-up





Outstanding Entries





Sino-Singapore SUEZ opened its plant to the public for the first time, following its inauguration in late 2019. Visitors toured the hazardous waste treatment facilities and learnt about the hazardous waste treatment process, particularly the treatment of medical waste. They were impressed with the plant's odour control, efficient and safe hazardous waste treatment processes, and an energy recovery system that facilitates resource recycling and reuse.

Sino-Singapore SUEZ



Nantong SITA, Nantong Environmental Protection Bureau and other government departments jointly hosted residents to visit Nantong SITA's hazardous waste treatment facilities and learn about the waste treatment process. The dual aim was to enhance public awareness of environmental protection as well as to attract more talents to work in the industry.

Nantong SITA



Over 20 staff from Chongqing Sino French Water joined a recent blood donation drive. The JV is committed to demonstrating corporate social responsibility and has organised annual blood donation drives for several years. Over 50,000 ml of plasma has been donated since the drives began.

Chongqing Sino French



In order to decorate the streets of communities, Tanggu Sino French designed and produced 140 commonwealth publicity boards to promote environment protection. The generous act was highly commended by the public and widely promoted by the news media.

Tanggu Sino French



SCIP Sino French signed an agreement with East China Normal University's No. 2 High School. As part of the agreement, the JV has committed to performing its social responsibility as a Shanghai Environmental Education Base. The JV will leverage its expertise in environmental education and help the school prepare classes on practical training. Students will also be involved in the research of essential elements of the environment, like water, soil and air.

SCIP Sino French



Chongqing Sino French Water invited families and friends of staff to the plant's open day. The visitors were introduced to water treatment processes, water treatment facilities and smart water technologies adopted by the plant. The aim of the event was to allow families and friends to understand the work and the mission of the staff, thereby increasing the awareness of water resources protection.

Chongqing Sino French



Macao Water granted scholarships to nine children of its staff, based on their excellent academic performances. This is a family-friendly policy that Macao Water has been running for many years.

Macao Water



Chongqing Changshou Sino French Water and SCIP Sino French visited respectively the local policemen and firemen to serve them refreshments and to thank them for their hard work in protecting citizens and their properties.

Chongqing Changshou Sino French Water / SCIP Sino French



To maintain good neighbourliness with nearby communities, SCIP Sino French and Jiangsu Sino French visited the elderly who are over 90 years old in nearby communities respectively, and offered gifts to the latter.

SCIP Sino French / Jiangsu Sino French



Macao Water held water supply safety seminars in the local community to enhance understanding of secondary water supply systems by property management companies and building management entities. The seminars also served to bolster precautions to secure stable water supplies during the typhoon season.

Macao Water



As part of the 'Macao Energy Conservation Week 2020', launched by the Office for the Development of the Energy Sector, Macao Water encouraged its staff to dress casually in the week and to set the air conditioners to 25 °C or above.

Macao Water



Suzhou SIP Sino French held a handcraft competition for staff and family members to promote resource reuse, by transforming waste into resources through creative means.

Suzhou SIP Sino French

Nurturing talents to achieve SUEZ 2030 vision

To support SUEZ to achieve its vision of becoming the global leader in environmental services by 2030, the Group needs to nurture a large number of technical talents and mobilise them to promote business development through technological means as well as to provide value-added services to clients. To maximise the value of such experts, SUEZ has established a virtual database for technical personnel, in which the experts are categorised into three levels with different responsibilities according to their expertise, business orientation, knowledge sharing and influence: Group Lead Expert who provides global technical support; Regional Key Expert who provides transregional, transnational and cross-business technical support; Local Expert who provides local technical support.

As per the People Review conducted by SUEZ in 2020, Yang Yanhua, Technical Director of Treatment Infrastructure, has been selected as Lead Expert, while 15 technical personnel from SUEZ Asia have been selected as Key Expert, covering 10 disciplines. In the future, SUEZ Asia will accelerate the cultivation of young and female talents, driving the development of the Group by means of technology and innovation.

SUEZ Asia Water Technical Committee held its first technical exchanges and communication meeting on 23 October 2020 in Hangzhou.





Treatment Infrastructure holds town hall meeting and team building activity

Treatment Infrastructure organised a town hall meeting and team building activity on 17 and 18 September 2020 to review its business operations for the year and the impacts of COVID-19 pandemic. The contributions of all staff to maintaining corporate growth, despite all the challenges, were highlighted. A 'Passion for Environment Fresco' workshop was also held as part of teambuilding to enhance staff awareness of environment protection and to foster a sense of pride at work.

Water Operations holds Annual Meeting 2020

On 10 and 11 December 2020, Water Operations held its annual meeting in Zhuhai. Over 130 staff gathered to share difficulties and challenges they encountered in 2020 and defined the strategic plan for future development. Team building activities and a 'Passion for Environment Fresco' workshop were also organised to enhance the communication and exchanges among colleagues as well as to raise staff awareness in environment protection.



SUEZ Asia joint ventures organise various staff activities

Tanzhou Water organised a staff outing on 24 October 2020.

Tanggu Sino French Water held a staff sports meet from 14 to 16 October 2020.

To celebrate the Mid-Autumn Festival and the National Day, **Shanghai Office** organised workshops to make mooncakes and potted plants for its staff.

In late August 2020, **SUEZ-WTS** offered summer internships for various positions to children of staff, with the aim of providing an opportunity for the children to experience what their parents do at work, so that they could gain a better understanding of the importance of the water treatment industry as well as SUEZ's commitment to environment protection.

Jiangsu Sino French Water and Changshu Water Bureau jointly organised a walkathon on 24 October 2020.



Tanzhou Water



Tanggu Sino French Water



Shanghai Office



SUEZ-WTS



Jiangsu Sino French Water

Privacy and Data Protection Policy

To protect the data and information from staff, clients, partners and suppliers, SUEZ is committed to handling such kind of information responsibly and in compliance with applicable information security and privacy laws. SUEZ has provided clear guidelines for the staff to follow in regard of properly collecting, using and keeping personal and corporate information and data.

Why does SUEZ collect personal information & whom SUEZ might expose the information to?

To maintain the normal work operations (i.e. recruitment, payment to suppliers, contract signing, etc.) of the company and to understand the clients' need to provide tailored and best-in-class services, SUEZ inevitably needs to collect personal or corporate information, which, apart from being used by the department responsible for data collection, may also be disclosed to our staff, relevant legal entities, contractors or suppliers.



Scan QR code for details



For any question regarding personal data protection, please email to privacy.asia@suez.com

In handling such personal data, SUEZ must follow certain rules, such as:

Collecting and keeping personal data for specific, legitimate purposes and not processing it further in ways incompatible with these purposes;



Rendering information anonymous when feasible and appropriate;



Taking reasonable steps to rectify or delete information that is inaccurate or incomplete;



Taking appropriate technical, physical, and organisational measures to prevent unauthorised access, unlawful processing, and unauthorised or accidental loss, destruction, or damage to personal data;



Ensuring appropriate notice and consent when processing sensitive personal data, etc..





Sharing of good practices in management safety visit



Macao CSR

Install a self-made safety operation desk for the staff to clean the inner part of the RCV.



O.Park1

Display a name list of qualified operators to avoid unauthorised use of forklifts.



West New Territories Landfill

Set a pedestrian walkway across the pipeline to limit the risk of falling by pedestrians as well as to protect the pipes.



Island West Transfer Station

Designate 'Yard Control Area' to limit the risk of collision.



Qidong Hazardous Waste Project

Set 'Restricted Access Area' to limit the risk of collision.



（左起）苏伊士东南亚固废及资源管理项目发展总监 Jerome Le Borgne、法国驻泰国大使 Olivier Richard、泰国海关部税务优惠局局长 Krittika Panprasert、泰国北榄府代表省长 Sumate Teeraniti、Chemicals Business, SCG 聚烯烃和乙烯基业务副总裁 Sakchai Patiparnpreechavud、北榄府工业办事处北榄工业工厂总监 Amnuay Suwannarak 及循环聚合物项目总经理 David Bourge 共同见证项目开幕。



2020 年 12 月 3 日，苏伊士宣布在泰国 Bang Phli 地区的循环聚合物设施正式投入运营。这是苏伊士在亚洲的第一座塑料回收再造设施，凸显苏伊士在突如其来的新冠肺炎疫情之下仍致力于改善环境和建设更可持续发展社会的雄心。该项目每年把在泰国收集而来的 3 万吨塑料包装废料转化为消费后可回收（PCR）塑料，作为解决塑料污染危机的长期方案。此外，设施的水回用率达到 94%，是泰国当地水回用率最高的同类回收设施之一，每年可避免 3.5 万吨温室气体排放，相当于种植 150 万棵树。

3 万吨

塑料包装废料转化为消费后可回收塑料每年处理量

94%

设施的水回用率

3.5 万吨

温室气体每年减排量



苏伊士循环聚合物设施回收低密度聚乙烯(LDPE)和线性低密度聚乙烯(LLDPE)塑料。它是泰国最大的 LDPE 回收设施之一，以最高标准合规运营。项目还汲取了苏伊士来自法国的塑料实验室 PLASTlab® 专家的丰富经验，得到了集团强有力的支持，可以定义、分析、测量及检测，并配制生产回收塑胶，以满足客户的特定需求。



郭仕达

苏伊士亚洲地区
首席执行官

我们需要重新思考使用和处理塑料的方式。虽然塑料为我们的日常生活带来便利，但海洋中数百万吨垃圾产生的后果也相当令人担忧，不仅危害环境和健康，也造成了经济损失。因此，我们需要一个长远之计，而这样的解决方案已在今天产生了。苏伊士在欧洲以外首座塑料回收设施的正式投运振奋人心，这将有助于鼓励东南亚向循环经济转变，并扭转塑料污染危机的形势。

苏伊士携手英威达 共推工业可持续发展



25 年
污水处理及供水服务合同



15 年
危废处置服务合同

苏伊士与英威达签署为期 15 年的危废处置服务合同扩大双方合作，为英威达 40 万吨己二腈（ADN）项目提供危废处理服务。此外，双方又签订了在上海化学工业区为期 25 年的污水处理及供水服务合同，旨在满足英威达在上海化工区全部生产线的服务需求。这是苏伊士在全球为重要工业客户量身定制本地化服务的又一重要体现，更是其通过实施“塑造苏伊士 2030”战略计划建立可持续发展环境的坚定承诺。

苏伊士与英威达的合作伙伴关系

在水务方面，此项目是自 2014 年起，苏伊士与英威达的又一次合作，根据其工业水和数股工业污水混合后的处理需求，为其量身定制安全、稳定的污水处理和供水解决方案。

在固废资源管理方面，双方继 2015 年在中国和 2019 年在北美合作后第三度携手。基于己二腈项目废料具有高粘度、遇水或湿气有反应性的特殊性，苏伊士对位于上海化学工业区现有生产线进行专项升级改造，支持英威达和园区达到更高标准的环保要求。

关于英威达

英威达是全球最大的化学中间体，聚合物和纤维的综合生产商之一，在上海化学工业区现有乙二胺工厂、聚合物工厂以及扩建聚合物工厂，新建己二腈项目，主要用于制造尼龙的中间体，预计于 2022 年投产。届时上海将拥有从己二腈到高性能聚合物的完整产业价值链，并成为全球最大的尼龙 6,6 综合生产基地。

苏伊士亚洲开展土壤修复业务

2020年9月8日，苏伊士与上海化工研究院有限公司联合中标上海桃浦智创城开发建设有限公司的桃浦智创城核心区排水系统工程泵站及调蓄池污染土壤应急处置修复施工项目，合同总额为528.42万元人民币。项目于10月下旬开展，工期为90天。



苏伊士在台北提供碎冰清管服务

继2019年苏伊士智慧与环境解决方案为台北自来水事业处提供20公里的碎冰清管服务后，今年再次获得该客户约30公里的碎冰清管服务项目。尽管疫情肆虐，苏伊士智慧与环境解决方案团队克服各种困难，于2020年11月初完成。

关于碎冰清管

碎冰清管是苏伊士一项专利的技术，利用冰浆清洁管道内壁。半固态冰浆的优势在于可以像液体一样泵送，同时又具有固体的属性，可在管道内形成活塞一样的碎冰。对于清除管道内的沉积物及生物膜，碎冰清管相比其他清管方式更高效，更安全，而且大大减少用水量。

苏伊士获多项水务合同



客户：万华集团

在山东烟台万华工业园，苏伊士为全球化工 50 强企业万华集团提供综合废水处理装置及浓水深度处理装置全流程工艺包。这是双方继 2017 年在浓水深度处理装置项目和 2018 年聚氨酯产业链一体化工程乙烯废水处理项目之后的第三次合作。

技术亮点

项目创新性地将排放的臭氧尾气回用至曝气生化处理段，在实现废气回收利用的同时，极大提高了生化处理段的处理效率。

1.3 万

吨 / 年

减少 COD 排放量

3,930

吨 / 年

碳减排

681,895

千瓦时 / 年

节约用电



客户：兰州石化

帮助中石油首次实现 石化污水零排放

在陕西省榆林市，苏伊士为中国石油天然气集团（中石油）兰州石化长庆乙烷制乙烯项目提供含盐废水处理、反渗透浓水预处理、高效反渗透和结晶单元等污水处理全流程解决方案。

该项目是国家批准的示范项目，也是中石油炼化业务转型升级的重点项目。作为苏伊士为兰州石化服务的第三个项目，该项目是继中天合创煤制烯烃项目蒸发结晶工艺段零排放之后，苏伊士再次为工业客户提供零排放工艺。在此之前，苏伊士已与国内许多知名的零排放企业合作，开发零排放预处理部分工艺包，满足不同的零排放进水水质要求，确保后续零排放实现稳定运行。



客户：大连石化

树立浓盐水处理标杆 保护海洋生态环境

在辽宁省大连市，苏伊士与中国石油天然气股份有限公司大连石化分公司成功签署高含盐浓水综合治理项目工艺包及配套设备采购技术服务和供货合同。

该项目原水为电厂反渗透浓水、循环水排污水和烟气脱硫脱硝废水的混合水，总氮高、硬度高。苏伊士的解决方案利用两级 Biofor DN 和 Oxyblue™ 臭氧生物滤池技术分别去除总氮和 hard COD，总氮去除率可达 >86%，确保出水满足辽宁地标直排标准，保护周边海域环境。

苏伊士参加线上新加坡国际水周

新冠肺炎严重影响了全球的经济以及会展业，年度水业盛事新加坡国际水周也不例外，将延迟至 2021 年 6 月举行。为了维持全球水务行业知识技术交流，在 2020 年 11 月 18 日和 19 日特别举办了线上新加坡国际水周。苏伊士作为活动的始创赞助商，

积极参与此次线上活动。共有 3,000 名来自 90 个国家 / 地区的人士参与了两天的活动，其中也包括 10 个网络会议、近 100 个企业参加的虚拟会展、参展商新产品展示以及网上商务配对。



虚拟展厅

苏伊士于虚拟展厅展示集团为市政和工商业客户提供覆盖水循环链的各项解决方案。



网络会议

苏伊士水务技术与方案和新加坡国际水周共同合作，就“以创新及企业管理减少工业水对环境的影响”的议题，介绍工业水的各种解决方案。



参展商产品展示

苏伊士向亚洲客户推介新产品下水道智能球 (Sewerball), 通过安装这个微型感应器漂浮球, 能够探测污水管网的水流量。



苏伊士参加 中国环博会成都展

1 2020年10月13日至15日，苏伊士参加中国西部地区规模最大、品质最高的专业环保展中国环博会成都展，展示集团水处理和固废资源管理等先进解决方案。

2 中国生态环境部部长和四川省委书记到访苏伊士展厅。

3 苏伊士因在抗击新冠肺炎疫情期间的显著贡献，获颁发“环境商会抗疫突出贡献会员企业”。

4 苏伊士亚洲地区高级副总裁孙明华在2020中国生态环境产业高峰论坛上，就“双循环与产业新趋势”的议题发表讲话。

苏伊士为十家“全国 30 强化工区”提供服务

在 2020 年中国化工园区 30 强和潜力 10 强名单里，苏伊士在中国服务的 20 个工业园区中有 10 家上榜，其中包括位居首位的上海化工工业园区。苏伊士在上海化工工业园区的项目，凭借在可持续发展方面的成效获选为 Shared Value Awards 2020。其余 9 家化工园区包括江苏泰兴经济开发区、东营港经济开发区、江苏常熟新材料产业园、江苏常州滨江经济开发区、珠海高栏港经济区、烟台化学工业园、武汉化学工业区、连云港徐圩新区、中国石油化工（钦州）产业园「现名为中国（广西）自由贸易试验区钦州港片区」。



在中国，219 家国家级工业园区占全国经济总量的 11.3%，工业园区实现高质量绿色发展对于中国实现生态经济转型至关重要。苏伊士作为工业客户首选的合作伙伴，帮助园区在防治污染的同时，减少能源和水的消耗，让客户降低生产成本并减少运营过程中对环境造成的影响，有效实现了循环经济和节能减排的目标。



▲ 苏伊士位于上海化工工业园区的服务项目，凭借在可持续发展方面的成效，获选为 Shared Value Awards 2020。

苏伊士在欧洲获评 性别多元化十佳企业

在欧洲斯托克 600 股票成分指数的公司中，苏伊士凭着女性在董事会中占据高比例，获评为推动性别多元化十佳企业，充分肯定了苏伊士在集团内推动性别多元化的各项措施及所付出的努力。

苏伊士亚洲致力推动性别多元发展



▲ 举办母亲节庆祝活动鼓励员工增加亲子交流，并提供家庭支援。



▲ 通过辅导和分享，鼓励女性员工积极尝试技术及运营岗位。



▲ 通过模范分享，支持女性发展事业。



▲ 举办消除意识偏见工作坊，扫除陈旧的意识偏见。



上海化工升达实验室检测能力获海外机构认可

在德国专业认证机构举办的 2020 国际实验室能力验证中，上海化工区升达实验室取得了优异的成绩，充分反映了合作公司实验室人员熟练掌握危废的检测方法，且检测结果精准。



澳门自来水荣获多个家庭友善雇主奖项

澳门自来水在澳门妇女联合总会举办的“家庭友善雇主奖励计划”中获得“家庭友善雇主”、“优秀家庭友善雇主”及“支持母乳喂养”三个奖项，表扬其致力为员工提供友善的工作环境。



卫龙“无人操控污泥收集机”获授予专利

卫龙废料处理有限公司获得香港专利注册处授予“无人操控污泥收集机”改良版为期 8 年的专利。改良后的设计将大幅减少污泥收集机的外置接线，使其可以进入箱型排水管内清除污泥，提升机器的工作效率，同时避免工作人员进入密闭空间作业的风险。预计改良版的模型将于 2021 年中完成。



重庆中法唐家沱获标杆污水处理厂称号

为庆祝建国建党 100 周年，由 E20 环境平台与国内 16 家行业龙头企业组成的“双百跨越”污水处理标杆联盟在全国评选了 53 家标杆污水厂，旨在为行业树立旗帜，塑造未来标杆污水处理厂，引领行业发展。重庆中法唐家沱凭着在污水处理关键环节精准控制，成为重庆地区唯一一家入选的污水处理厂。



苏州中法环境获评污泥处置优秀案例

苏州中法环境的污泥处置项目由于工艺节能低耗及有效实现资源化利用，入选由 E20 环境平台联合 E20 研究院在全国征集的 22 个污泥处置优秀案例。



澳门自来水石排湾净水厂获中国绿色建筑标识一星级认证

澳门自来水辖下的石排湾净水厂获中国绿色建筑与节能（澳门）协会颁发一星级绿色建筑设计标识证书。水厂建筑采用绿色设计理念，应用多项智能技术，实现循环经济、节能减排。

2020 年 苏伊士亚洲 创新奖

集团通过创新奖这一重要活动培养员工创新思维并鼓励他们把创新的理念加以实践。2020 年的创新奖活动已圆满结束。

217

项目



参赛项目
数量

44%

比去年增加

914

参加者



参与创新奖活动的
员工数量

今年活动范围扩展至
苏伊士亚洲

33

合作公司



参与活动的部门
和合作公司数量

16

部门

2020 最佳 推广应用奖 获奖项目



iAlert2.0 智能风险预警系统

水务运营

江苏中法水务



**Biofor DN 反冲洗流程及
自控程序优化推广**

水务工程



无人机在香港堆填区的应用

固废资源管理

香港新界西堆填区

2020 最佳创新奖 获奖项目

江苏中法污水

智慧污水水力模型系统

上海化工中法

高盐水臭氧氧化工艺曝气盘
盐结晶堵塞解决方案

苏州中法环境

蒸汽冷凝水变废为宝综合利用
完成华丽转身

澳门自来水

测量不确定度评定的模块化
和智慧化

重庆长寿中法

长寿中法数字孪生水厂关键
技术的探索与实践

水务工程

ABR+ 两级 Oxyblue 在盛虹
石化项目中的首次联合应用

水务工程

长沙市开福污水处理厂三期
提标扩建工程 MSBR 改造

水务工程

泰兴项目：臭氧曝气器在
线清洗系统

水务工程

阿波罗 - 新项目文档和信息
管理系统

水务工程

高密度沉淀池自动冲洗系
统的改良设计

南通升达

F22 催化剂处理装置

香港有机资源回收中心

为沼气柔性储气装置增设应
急旁路实现不间断运行

德润

深水水体原位生态修复平台
及相关技术研究

可持续固废管理

废弃物综合管理数字化解决
方案

台湾仁武废转能厂

吹灰器改善



苏伊士亚洲积极参与全球清洁活动

苏伊士作为终结塑料垃圾联盟的创始会员，于2020年世界清洁日与联盟举办 ALL_TOGETHER GLOBAL CLEANUP 活动，向全球发起清除污染物的倡议，并通过手机应用程序 Litterati，上传捡到的垃圾的照片，完成清洁挑战赛设定的垃圾清洁目标。苏伊士亚洲多个合作公司和办公室积极

响应，在当地组织清洁活动。参与的单位包括：北京办公室和澳门办公室、澳门自来水、澳门清洁专营公司、保定中法、重庆中法供水、重庆长寿中法、重庆中法唐家沱、江苏中法水务、上海化工中法、可宁卫苏伊士、坦洲供水、西安中法、苏州太湖中法等。



超额完成目标

上传超过 1,000 张照片



400+人

参加活动



600+公斤

垃圾被收集





太湖中法



上海化工中法



坦洲自来水

▲ 苏伊士携手欧洲在台商务协会 (ECCT)、海洋委员会以及高雄市政府发起了旗津贝壳馆海岸滩的净滩活动, 共 250 多人响应参与, 收集了超过 230 公斤垃圾。



重庆长寿中法



江苏中法水务



北京办公室



保定中法



冠军



亚军



季军

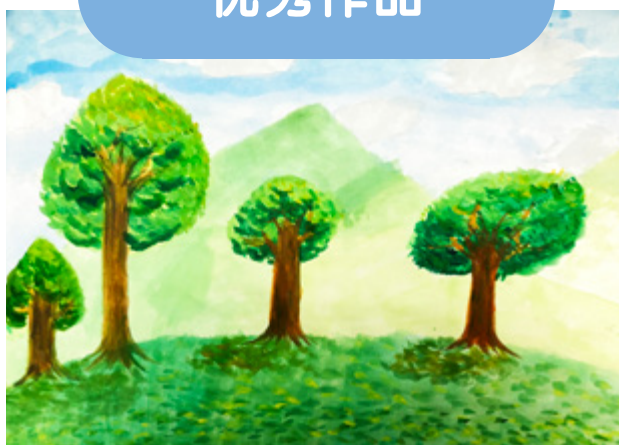


清新空气 我们来画一画 儿童绘画及填色比赛

为提高社会大众对空气质量的关注，苏伊士亚洲在 2020 年 9 月 7 日第一个国际清洁空气蓝天日举办“清新空气，我们来画一画！”儿童绘画及填色比赛，让他们发挥想象力，构想一个有纯净空气的理想居住环境。



优秀作品





中新苏伊士在 2019 年底建成投运后首次向公众开放，让市民参观厂区内的危废处理设施，了解医疗废物等危废的处理过程。市民对厂区洁净无味的环境、高效安全危废处理过程及其能源回收管理系统实现资源循环利用，表示高度赞赏。

中新苏伊士



南通升达与南通市环保局等机构合作，开展“公众看环保”活动，邀请市民到厂区参观，了解固废处理的流程，以提升公众环保意识，同时吸引更多人才加入环保行业。

南通升达



重庆中法供水组织 20 多名员工开展无偿献血活动。合作公司将无偿献血视作一项企业社会责任，每年组织员工参与，累计献血量超过 50,000 毫升。

重庆中法供水



为美化社区街道，塘沽中法设计制作了 140 块环保公益宣传展板，获得市民赞赏及新闻媒体关注报道。

塘沽中法



上海化工中法与上海师范大学第二附属中学签署合约，承诺履行其作为“上海市环境教育基地”的职责，充分发挥环保科普教育的作用，助力学校创建特色课程，增加学生校外教育以及在水、土壤、空气等小课题研究方面的实践体验。

上海化工中法



重庆中法供水邀请员工亲友参加水厂开放日，让他们认识制水工艺流程、供水设施以及合作公司智慧水务建设情况。活动的目的是让亲友了解员工的工作和使命，提升保护水资源的意识。

重庆中法供水



澳门自来水向九名员工子女颁发奖学金。作为其中一项员工关怀及家庭友善措施，澳门自来水连续多年推行员工子女奖学金计划。

澳门自来水



重庆长寿中法和上海化工中法分别到当地的派出所和特勤站进行慰问活动，为执勤的警察和消防员送上清凉饮品，感谢他们在高温的天气紧守岗位，保障市民的人身及财产安全。

重庆长寿中法 / 上海化工中法



为与周边社区构建良好的关系，在重阳节来临之际，上海化工中法和江苏中法水务代表慰问附近社区老人，并向他们送上慰问品。

上海化工中法 / 江苏中法水务



澳门自来水举办大厦供水安全座谈会，以加深物业管理公司和楼宇管理实体对二次供水系统的了解；也向他们介绍了台风期间保障安全稳定供水的各项措施。

澳门自来水



澳门自来水响应特区政府能源办公室发起的“澳门节能周 2020”系列活动，鼓励员工一周内都穿着便服上班，以及调节室内冷气温度不低于 25 摄氏度，身体力行支持节能环保。

澳门自来水



为宣扬循环利用的环保理念，苏州中法环境组织了环保手工艺比赛，让员工及其家人发挥创意，变废为宝。

苏州中法环境

培养技术人才 助力苏伊士 实现 2030 愿景

为了实现苏伊士 2030 愿景：成为环境服务领域的全球领导者，集团需要培养大量的技术人才，并调动他们的能动性，以技术推动业务的发展，并为客户提供增值服务。为了最大化集团技术专家的价值，苏伊士建立了技术人员数据库，并按专业能力、业务导向、知识分享以及影响力，把集团专家分为三个级别，并赋予不同的职能：集团专家，在全球范围内提供技术支持；区域专家，在跨区域、跨国家、跨业务线提供技术支持；本地专家，在本地提供技术支持。

在 2020 年集团专家评定结果中，水务工程技术总监杨燕华被评定为工业污水领域集团专家，还有另外 15 位来自苏伊士亚洲的技术人员被评为区域专家，涵盖 10 个专业领域。未来，苏伊士亚洲将加速培养年轻技术专家以及女性技术专家，以技术及创新推动集团发展。

苏伊士亚洲水务技术委员会第一次技术交流及沟通会议于 2020 年 10 月 23 日在杭州召开。





水务工程举办 全员沟通会及团建活动

2020年9月17日至18日，水务工程举办全员沟通会议及团建活动，回顾在2020疫情影响下业务发展情况，并感谢全体员工在严峻的环境下，仍积极投入实现增长。团队建设的其中一部分活动是“热爱环境壁画工作坊”，目的是让员工了解集团“热爱环境”的价值观，让员工更热爱环境和自身所从事的环保工作。

水务运营举办 2020 年年会

2020年12月10日和11日，水务运营在珠海举办2020年年会，130多名员工聚首一堂，分享2020年遇到的各种困难和挑战，计划未来的发展。活动还包括的团队建设活动，以加强同事间沟通交流，以及“热爱环境壁画工作坊”，以提升员工的环保意识。



苏伊士亚洲合作公司 为员工们组织各种活动

2020年10月24日，**坦洲自来水**举办员工秋游活动。

塘沽中法供水在2020年10月14日至16日组织员工运动会。

在中秋国庆来临之际，苏伊士**上海办公室**举办月饼制作和小盆栽制作活动，让员工共庆佳节。

今年8月下旬，苏伊士**水务技术与方案**组织员工子女开展暑期体验活动，让他们在公司的不同岗位进行实习，旨在让子女们体验父母的工作环境，了解水处理行业的重要性和苏伊士的环保使命。

2020年10月24日，**江苏中法水务**、常熟市水务局联合举办徒步活动。



坦洲自来水



塘沽中法供水



上海办公室



苏伊士水务技术与方案



江苏中法水务

隐私和数据保护政策

为了保护属于员工、客户、合作伙伴和供应商数据信息，苏伊士集团承诺负责任地收集、使用和保存相关信息，并且遵守适用的信息安全和隐私保护法规。苏伊士集团制定了隐私和数据保护政策，就数据的收集、使用和保存为员工提供了清晰的指引。

苏伊士为何收集个人信息？集团可能向谁披露收集到的个人信息？

在日常工作中，因为维持公司运作（如招聘、支付供应商、签订合同等）以及了解客户需求，为客户提供更个性化和优质的服务等原因，苏伊士不可避免要收集个人或企业的信息资料；除了供收集资料的部门使用外，还可能向我们的员工、相关的法人实体、承包商或供货商等披露某些信息资料。



扫描二维码了解政策详情



如您对苏伊士保护隐私及数据有任何疑问
可电邮至 privacy.asia@suez.com

在处理个人资料时，苏伊士必须遵守的原则包括：

为特定、合法的目的收集、保留个人资料，
且不以不符合这些目的的方式进一步处理这
些数据；



如适合，使用匿名信息；



采取合理的措施纠正或删除不准确或不完整
的信息；



采取适当的技术、物理和组织措施，防止未
经授权的访问、非法处理，以及未经授权或
意外丢失、破坏或损坏个人资料；



在处理敏感的个人资料时，确保通知当事人
并取得其同意，等等。





管理人员安全巡视 优秀做法分享

港岛西废物转运站

设定“内运管制区”减少人车碰撞风险。



启东危废处置项目

设定“限制进入区域”减少人车碰撞风险。

澳门清洁专营公司

自制安全工作台清洁垃圾收集车厢内部。

有机资源回收中心

展示合资格叉车驾驶员名单, 避免未经批准使用叉车。

新界西堆填区

管道上设置行人通道减少行人跌倒风险并保护管道。