



**Environmental sustainability is  
our passion, our purpose and our practice!**

**SUEZ Asia**  
**Sustainable Development Report 2021**





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**“ Sustainability contributions are integral to our service offerings. We aim to reduce our environmental footprint, by prioritising renewable energy, circularity of resources, and efficiency optimisation. ”**



Steve Clark  
CEO, SUEZ Asia

2021 saw the advent of a major global Conference of Parties event: COP26. The annual event was held in Glasgow, Scotland, where the UN brought together leaders from almost every nation for a worldwide climate summit. Closer to home in Asia, the first part of COP15 which focused on biodiversity, took place in Kunming, China.

China's journey towards ecological civilisation, as well as its energetic pursuit of “dual carbon” goals - peak carbon emissions before 2030 and carbon neutrality by 2060 - are hugely impressive. In Asia, our sustainability efforts can play a meaningful role in supporting these aspirations.

We appreciate the urgent need to accelerate ways to pursue sustainable development and we take seriously our responsibility for helping to drive the region's green transformation forward. Two years from the onset of COVID-19, I'm proud that the challenges brought on by the pandemic have not disrupted our efforts to continue to invest in safeguarding and restoring the environment and natural capital.

Additionally, SUEZ began a new chapter on 1 February 2022, where we continue to be a leading provider of global solutions that preserve fundamental elements of our environment. This

shift can help us seize industry growth opportunities and continue to deliver innovative solutions, as well as consistent, reliable operational performance.

Asia, especially China, is a key market for SUEZ. As the region works to achieve key goals, SUEZ will fully leverage its human, financial and technological capabilities to satisfy this demanding market, by transforming our production and operational capabilities into green models. We also aim to reduce our environmental footprint, by prioritising renewable energy, circularity of resources, and efficiency optimisation. We will also continue to invest in developing sustainable solutions and supporting customers towards their sustainability goals.

Sustainability contributions are integral to our service offerings. This belief is behind our desire to continue to invest in talent development and innovation. This is how we ensure the delivery of the best, and most sustainable solutions to our customers.

Going forward, we remain firmly committed to contributing to the region's long-term ecological and environmental goals.



# About SUEZ



For 160 years, SUEZ has been a key player in environmental services. Today, our services span across **water services, recycling and recovery as well as air quality.**

**SUEZ incorporates smart and digital solutions with a unique expertise and know-how across the entire value chain:**



Consulting



Design



Construction



Long-term operation



Financing

## SUEZ in Asia

**600+**

water and wastewater treatment plants built

**20+ million**

people received our water and waste services

**16**

Industrial parks received our environmental services

**6,500**

employees



## Strong development and footprint in Asia



- ★ SUEZ office
- 💧 Water
- ♻️ Waste
- 🟡 Industrial park
- 🧪 Environmental Quality Monitoring (EQM)
- 💬 R&D and innovation centre



# A fast-changing world

More than ever before, industrial and municipal customers are paying attention to the companies behind the solutions they buy and imposing greater demands on these companies in terms of corporate responsibility. At the same time, the themes of sustainability and biodiversity have risen sharply on the list of global priorities, as evidenced by COP26 and COP15.

## Government ambition and commitment to sustainable development

**In China**, a series of policies and action plans have been developed and put into effect, in order to support country's "dual carbon" goals announced in late 2020. The release of China's Action Plan for Carbon Peak before 2030 and some other important policies in 2021 accelerate the formation of China's "1+N" carbon policy mechanism, with "1" meaning top-level policy design and "N" meaning policies and guidance for respective industries.

**In Southeast Asia**, Singapore announced its Green Plan 2030, setting up clear goals to further promote urban landscaping, sustainable life and green economy. During COP26 in 2021, Thailand's Prime Minister set country's new carbon neutrality goal – reaching the Net Zero Emission in 2065. To reach the country's goal of reducing greenhouse gas emissions by 75% in 2030, the Philippines has launched a Sustainable Finance Roadmap to support green projects.

## Environmental industry's green transformation

All the commitments or action plans have impacted or will impact every citizen, company and industry, profoundly. Environmental industry is also not an exception. Requirements have been put forward on environmental industry's production and operation to reach a lower environmental footprint.

On the other hand, the trend of synergising pollutant removal and carbon reduction brings more opportunities to the environmental industry. The players in this industry have more possibilities than ever to explore new territories beyond pollutants removal, such as renewable energy development, resource recovery and recycling, ecological restoration and carbon sink development, nature-based solutions, and even carbon capture and utilisation, etc. There is also a great potential for the environment industry to develop voluntary reduction projects which will contribute to climate positive while gain financial return from trading carbon credits.

## Long term & Net Zero target

**China**



1. Peak carbon emission by 2030
2. Reach carbon neutrality by 2060

**Indonesia**



Reach net zero carbon emissions by 2060

**Philippines**



Endeavour to peak emission by 2030

**Thailand**



1. Reach carbon neutrality by 2050
2. Reach net zero emissions by 2065

**Singapore**



1. Peak carbon emission by 2030
2. Ambition to achieve net zero emissions by or around mid century

**Vietnam**



Reach net zero emission by 2050



# Our sustainable development values in action, across all dimensions

For decades, SUEZ has provided environmental solutions and services to government and industrial clients across Asia. By **relying on our exceptional expertise and cutting-edge innovation, we protect the planet's most valuable resources - water, soil and air.**

As we have developed our reputation among the most reliable and capable providers of environmental services, we have also extended our focus to address environmental, social and economic impact, both within and outside of our operations. By aligning SUEZ's sustainable development direction with the UN's sustainable development goals (SDGs), in Asia we have committed to becoming a company that is positive for the people, for the planet and for the prosperity.

In order to realise our commitment to sustainable development and environmental protection, we have established an efficient management system to ensure alignment between our actions and our

commitments. We plan our actions and track our sustainable development performances; engage our co-workers to increase awareness and develop knowledge; interact with external stakeholders to generate bigger societal impact; and make sustainable value propositions across our business activities.

Our sustainable development strategy reflects our belief in the potential of environmental service providers to be enablers of sustainable development. We are convinced that there is also a clear pathway to more value creation along this route, which is why this strategy has been encoded into our planning - supporting the business development and guiding our daily operations across the region.



Francois Fevrier  
CEO Water, SUEZ Asia

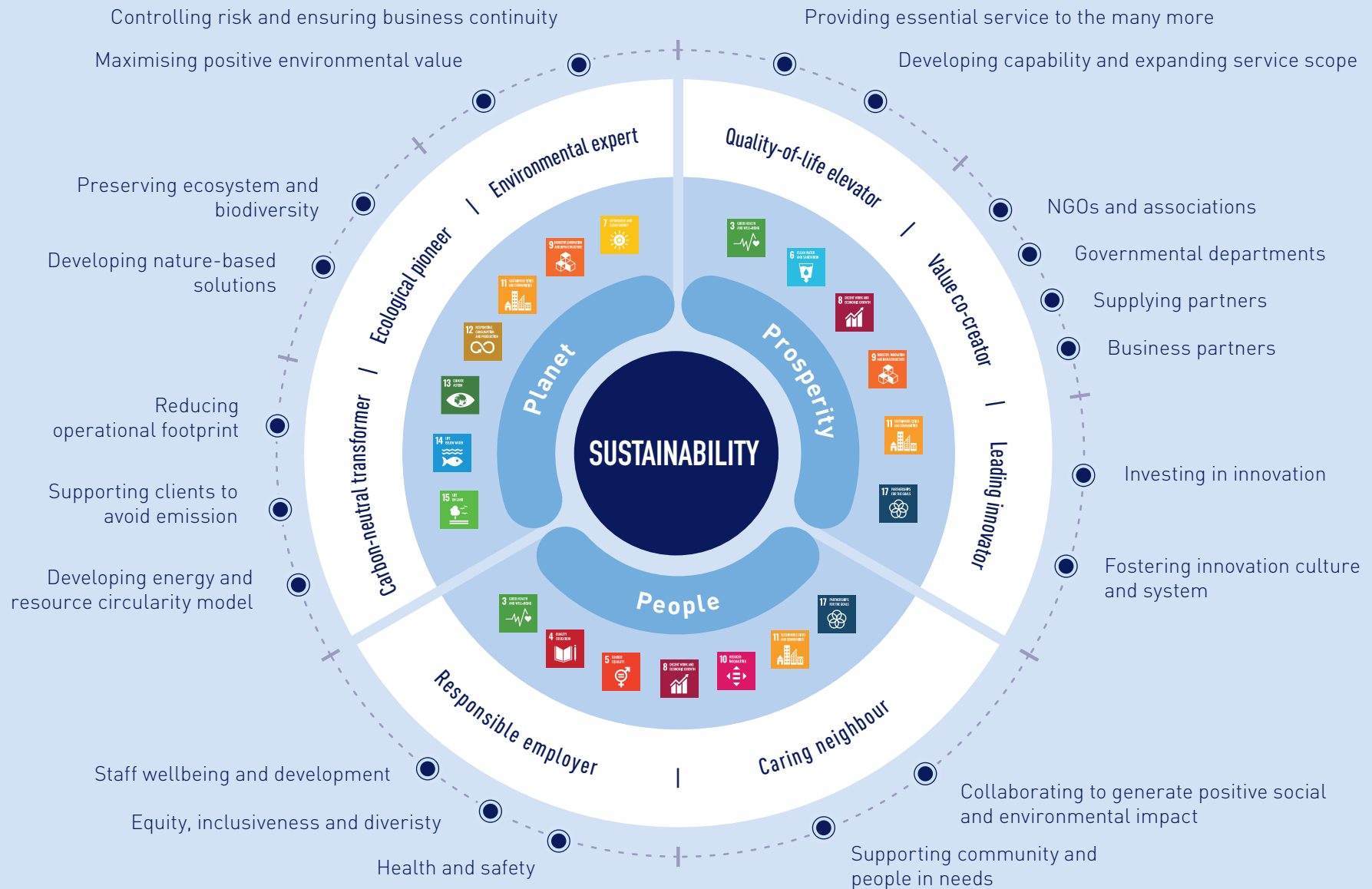


**“The momentum for green transition from governments, industries and customers is strong. SUEZ, as a responsible company, has been part of this evolution by taking lead in action and expanding its expertise. We will continue to devote our efforts, timely review and adjust our strategy in order to address sustainable development needs regionally in this fast-changing world.”**



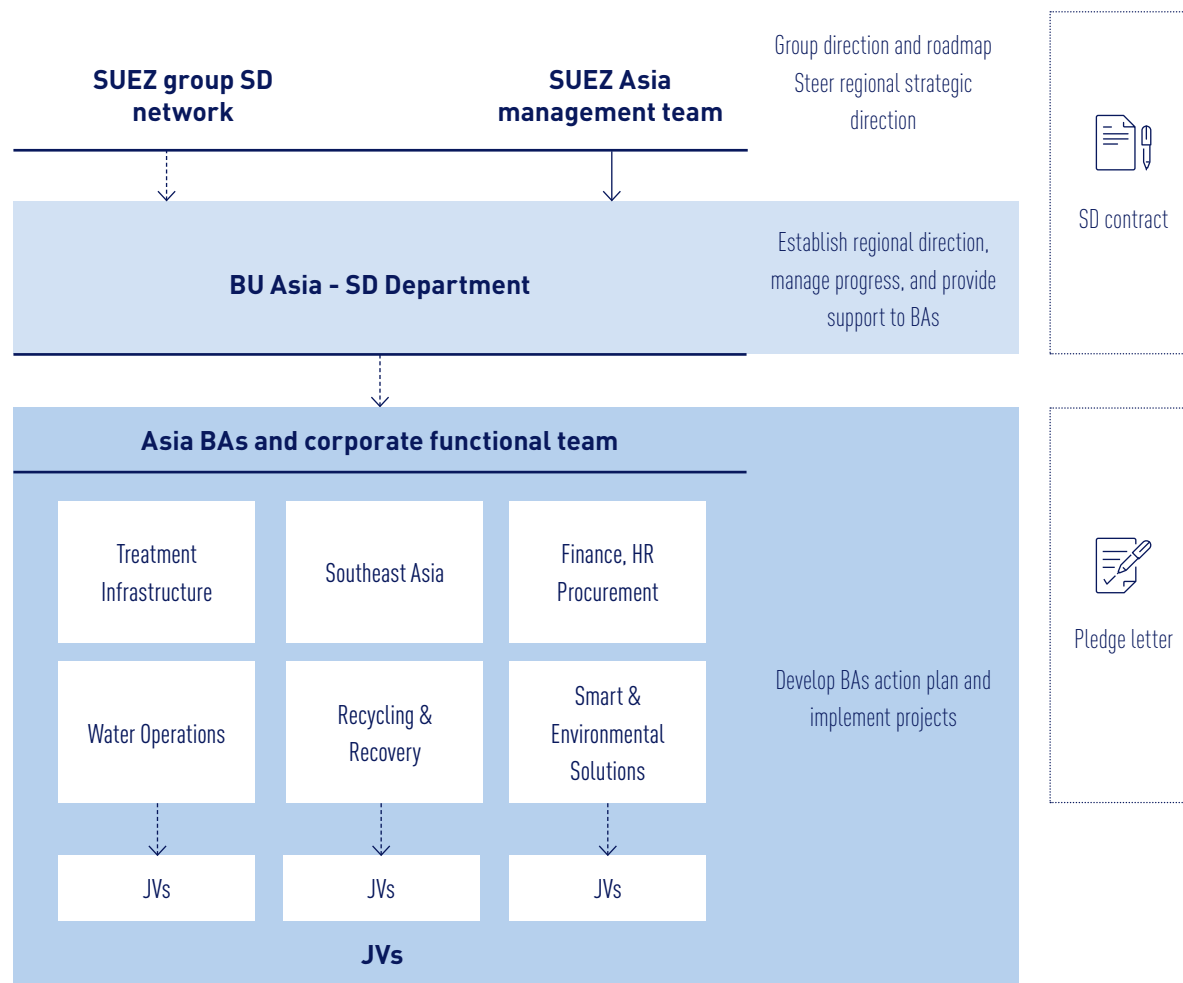


## Transforming our belief to a clear pathway supporting the business development and guiding our daily operations across the region



# Sustainable development governance and management

In Asia, SUEZ has developed a complete and competent team to progress its sustainable development agenda in the region. This includes joint force and support from the management team, Sustainable Development (SD) department, as well as Sustainable Development Network across all Business Areas (BAs), corporate functional teams and joint ventures (JVs) in Asia.



## Sustainable development contract and pledge

In 2021, we successfully implemented the Sustainable Development Contract, a new management scheme developed by SUEZ for all its Business Units (BUs) globally. The development of the Contract has enabled structured discussion and alignment of sustainable commitment between the BUs at each region and the global team. The signed Contract documents with all quantitative and qualitative goals, which provides clear guidance to ongoing implementation and performance tracking of the scheme throughout the year.

### SD management in our BAs

In alignment with overall SD direction and management in Asia, our BAs also further actively establish the management systems and plans that suit their respective business and operation nature in order to meet SUEZ commitment and lead industry development. In 2021, our water business developed a sustainable development roadmap, which defines the priorities and action plans for water operations in the next two years. Treatment infrastructure business successfully established ISO14001 environmental management system and started to build a Green Office, Green Engineering and Green Innovation management system.



# 2021 Performance highlights in Asia

—

**20** million +  
people in Asia received the water and waste  
services operated by SUEZ

—

**40%**  
of management positions filled by women

—

**359** million RMB  
community investment





**1,502 Mm<sup>3</sup>**  
drinking water produced  
(same volume in 2020)



**126,197 tonnes CO<sub>2</sub>e**  
emissions avoided  
↑5.0%\*



**419 Mm<sup>3</sup>**  
wastewater treated  
↑21.8%\*



**219 GWh**  
renewable energy produced  
↑5.5%\*



**146,458 tonnes**  
hazardous waste treated  
↑8.6%\*



**17.81 Mm<sup>3</sup>**  
alternative water produced  
↑50.2%\*



**42,069 m<sup>3</sup>**  
soil remediated  
↑424%\*



**62,244 tonnes**  
refuse-derived fuel produced  
↓3.0%\*

\* in comparison with 2020



# People

It is our ambition to ensure that we provide an engaging, safe and inclusive place for work. We are proactive and innovative in the actions we take to ensure that all workers have decent working conditions and that we continue to improve the work environment for all our employees. Guided by our values, international standards and the expectations of our key stakeholders, we continue to enhance the wellbeing of people we work with, as well as the communities we serve.



## Solidarity and civic engagement during COVID-19

The COVID-19 pandemic has dominated headlines across the world for the last two years and the global public health crisis has reminded us of what is truly essential in life. SUEZ Asia management team and Emergency Response Team responded with speed and compassion to ensure employee wellbeing by putting in place key Health and Safety (H&S) measures that also facilitated operational continuity and community support.

Since the onset of the pandemic, protecting the physical and mental

wellbeing of SUEZ staff has remained a top priority. We adjust our travel and work policy timely based on latest COVID-19 situation and provide with personal protection equipment. Despite COVID-19-related material shortages and reduced delivery options, we continued to proactively source and distribute food, and other essential supplies, to colleagues under lock-down. SUEZ also activated an Employee Assistance Programme hotline, to give staff ongoing support for health and wellbeing challenges encountered during the pandemic.

### We support our communities through uninterrupted service

While the cities are challenged by COVID-19, we have been endeavouring to ensure an uninterrupted water and waste management services for the clients and communities we serve. Our frontline staff stood by their posts and worked around the clock. During the strictest lock-down period, we run our plants in closed-loop scheme, thereby ensuring smooth operation of all facilities. Meanwhile our operation has adopted most stringent standard to ensure service quality and avoid the risk potentially brought by COVID-19. Our water service has taken comprehensive measures that include adding disinfectants, ultraviolet radiation and ozone processes to further remove bacteria and viruses in the effluence. Our incinerators also supported local governments to dispose of infectious waste under most stringent control conditions. All these actions fully demonstrated SUEZ's strong commitments and sense of mission.



Operational continuity and maintenance of quality standards



Supporting communities across Asia

**1 million RMB+**  
financial donation

Surgical masks, googles and emergency supplies

Support to employees, clients and suppliers



## SUEZ employees, our most valuable asset

### Health and safety is top priority

At SUEZ, safety is everywhere, all the time, with everyone and for everyone. We take actions every day to eliminate the risk factors that can threaten the wellbeing of our employees, subcontractors, customers and the populations in which we work. In 2021, SUEZ Asia continued to upskill staff in our safety and security principles to improve our H&S culture and performance. Thanks to these efforts, we recorded a consistent decline in accident frequency and severity.



Today, management continues to lead by example, conducting field safety visits to talk with employees, identifying areas for improvement and consultatively agreeing on corrective actions.

In 2021, SUEZ's Managerial Safety Visits, regularly scheduled inspections by members of SUEZ's senior leadership to assess the health and safety protocols, were expanded to include operational managers. In total, across 2021, 218 visits were conducted by 42 executives and 579 visits by 77 operational managers.

During the same year, to better support this managerial safety visit programme, a mobile app was developed to enable managers to record their safety visits and follow-up on prescribed corrective actions via mobile phone. The digital solution also facilitated the summary and analysis of findings thanks to the extensive data compiled via the app.

Also, to make better known the Group's expectation of managers, we rolled out the Manager's Guide on Health and Safety which clearly specifies eight managerial levers for improving Health and Safety structure, procedures and field implementation.

**797**  
managerial site visits

**94,148**  
H&S training hours

**0.27**  
accident frequency

**0.013**  
accident severity

**6,000+**  
unsafe conditions reported and resolved

**22**  
systematic H&S innovations were designed and implemented

## An equal, inclusive and diversified working environment

In recent years, across Asia, we have been working closely with the global team to pay closer attention to promoting workplace parity for women, through activities like investing in career development for female employees and by closing the gender pay gap. We have also, as part of the overall SUEZ diversity programme, offered employment opportunities to people with disabilities, and attracted staff who represent diverse backgrounds, across education level, ethnic heritage, location and hierarchical position within the organisation.



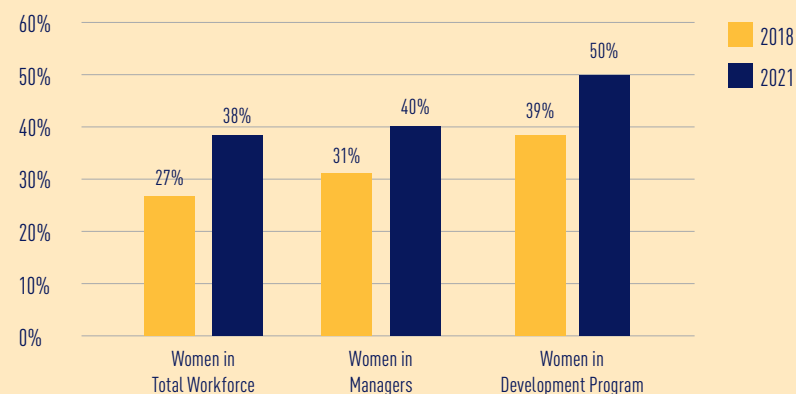
A fair and transparent bonus scheme enhances employees' performance and helps the business meet its overall objectives. In Asia, under the SUEZ's "Score Card" scheme, we have conducted Annual Performance Interviews via the Talent Up digital platform. Through this process, KPI appraisal and bonus allocation between women and men have been reviewed separately, to ensure equal pay for equal work.

**40%**  
management positions filled by women  
in SUEZ Asia

Seven Inclusion and Diversity projects were submitted by all business areas in Asia to participate in SUEZ Group I&D competition in 2021. SUEZ Asia won two of the Group's "Inclusion and Diversity" Awards for 2021. SUEZ's subsidiary Macao Water won the Special Prize for "Most Inclusive Action" and SUEZ Asia won Grand Prize for "Best Progress in Achieving Gender Balance".

## Main achievements (2018-2021)

### Improving gender balance in Asia



### Accelerate females development-mentoring program

Women talents

2018 - 39%

2019 - 45%

2021 - 50%

Female  
477



Male  
767

Under age 30: 214

Age 30-50: 830

Over age 50: 200

\* The employees of the joint ventures are not accounted in this statistics.



The SUEZ Women Asia Network (SWAN) has become a popular, trusted regional platform among female employees in Asia since its establishment in 2018. A key milestone of the significant progress made towards gender parity is that, by the end of 2021, female employees comprised 38% of the total workforce, 40% of managers, and 50% of participants in the Asia development programme. This progress represents significant milestones for the infrastructure industry. Additionally, a series of women's leadership forums have been organised by SWAN to support the career development of female staff.



## International Women's Day





## Talent development and employee training

Human resource development is the foundation on which company development is built. At SUEZ Asia we have developed systematic structure and dedicated programmes to support employee development across multiple dimensions, which include training courses, mentoring programmes and external training opportunities.

99.4%  
employee training coverage

14,959 hours  
training time

### GRIT talent development programme

SUEZ strongly believes that talent is the key driver of business performance, a commitment which has been upheld despite the pandemic. To suit the current context of learning, we have launched GRIT (growth, resilience, innovation, talent) programme 2021, which is a combined mix of online courses, remote mentoring and coaching, as well as project teams and workshops. The programme, co-designed by SUEZ and CEIBS Global Executive MBA, integrates the expertise and resources from international business schools. It aims to equip participants with a strong mindset and skillset that will ensure their success in the next stage of career development.

30

SUEZ Asia participants

-

6

months programme



Driving emerging talents to become future leaders of SUEZ

### Emerging Talents

- High performance
- High potential
- High learning ability
- SUEZ core values

### Future Leaders

- Be willing to grow by challenging self and walking out of comfort zone
- Be able to quickly respond to change
- Be dared to make a difference with innovation
- Be able to achieve results with flexibility

### Environmental FRESCO

FRESCO is an environment training based on our first core value - Passion for the Environment. It aims to educate our employees on topics to understand global warming and environmental pollution. It encourages SUEZ Asia staff to be change-makers and thought leaders.



69%  
staff trained

40+  
FRESCO animators trained



## A caring neighbour to communities

The societal development requires the effort from every citizen. It is the mission of SUEZ Asia to be a responsible citizen, one that promotes wellbeing, environmental benefit, and social cohesion within communities we serve. Our values of passion for the environment, respect and team spirit guide our community engagement. More importantly, we listen to and understand their needs, and we invest resources and energy in environmental action to help communities improve their habitat and maximise their potential for development.

In addition, we develop also mid-term CSR partnership to create the long and/or mid-term shared value that could be expected by the society we are located. For instance, Macao Water, a subsidiary of SUEZ has been the sponsor and organiser of the annual event of Special Olympics for 17 consecutive years. Internship positions have also been offered by Macao Water to trainees at the Macao Special Olympics.

**359 million RMB**  
community investment

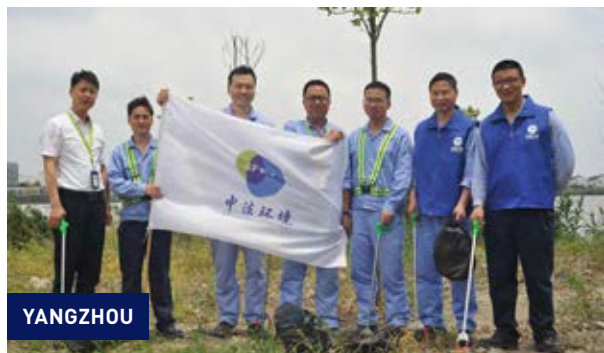
**643 hours**  
voluntary service

### For the environment: tree planting and grass removal





## For the environment



YANGZHOU



CHONGQING



TANZHOU

## For the younger generation



CHANGSHU



SHANGHAI



XI'AN



SUZHOU

## For people in need



MACAO



TIANJIN



# Planet

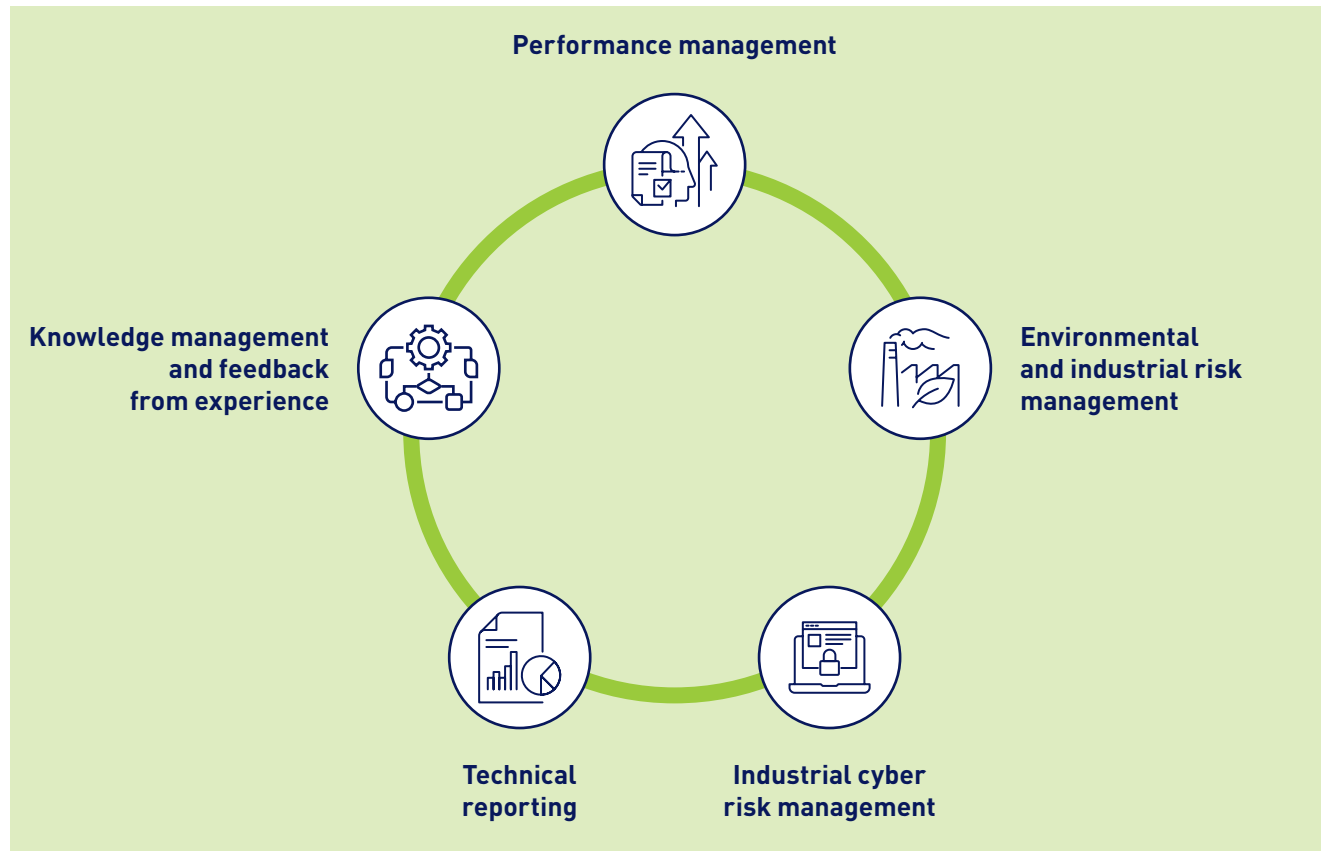
We are determined to protect the planet's resources from degradation, through concrete actions of preserving eco-system, mitigating climate change and providing sustainable solutions. This is the only way Earth can support the needs of our present and future generations. Securing excellent and continuous environmental value delivery remains at the core of our daily business. It is how we believe we can have the greatest impact.



## Optimising environmental value through service

Amid widening recognition of how environmental issues create business opportunities and risks, SUEZ Asia continues to place preserving the environment at the top of its mission priorities. Today, securing the best and continuous environmental value delivery remains at the core of our daily business.

To make this happen, SUEZ Asia sets the most stringent, up-to-date standards for environmental compliance in our business. From project development, right through to operations. We have established a systemic approach to manage operations and services, by focusing on performance management, as well as on environmental and industrial risk management, cyber risk management, technical reporting and knowledge management. Additionally, our crisis management network provides 24-7 support to all subsidiaries. The comprehensive guidelines and instructions for emergency drills cover internal processes, as well as how to liaise with key stakeholders like the public and governmental authorities.



## Environmental management

While supporting our customers in creating positive environmental value, we also mitigate our own environmental footprint in operations. We have established an ISO14001 environmental management system at our production sites, to minimise how our operations impact the environment, as well as to comply with local laws and regulations.

SUEZ follows a preventative risk management approach, through which all identified significant environmental aspects are well controlled by environment management and operational control measures. Moreover, in future, we plan to set up additional improvement programmes to address significant aspects that offer high opportunity for optimisation. These will fall under the guidance of *SUEZ Environmental and Industrial Performance and Risks Policy and Enterprise Risk Management*.





## Act now, transforming to climate positive

The evidence is clear that climate change poses one of the biggest threats to public health in the 21<sup>st</sup> century, and to the planet as a whole. The time for each of us to take action is now.

In SUEZ Asia, we have been dedicating our effort on mitigating climate change and on reducing the environmental footprint by addressing operations and the value chain. Now, our priority is to reduce Scope 1 and Scope 2 emissions in our own production and operation; avoid emission for our customers by providing 100% sustainable solutions. In 2021, we saved 126,197 tonnes of CO<sub>2</sub> emission for customers by recovering materials and energy.

We are also reinforcing efforts to transit into a closed loop business model,

in collaboration with our partners, through producing of renewable energy, alternative water while removing pollutants and generating of refuse-derived fuel. In combination, these actions contributed to the reduction of Greenhouse Gas (GHG) emissions.

**219 GWh**  
renewable energy production

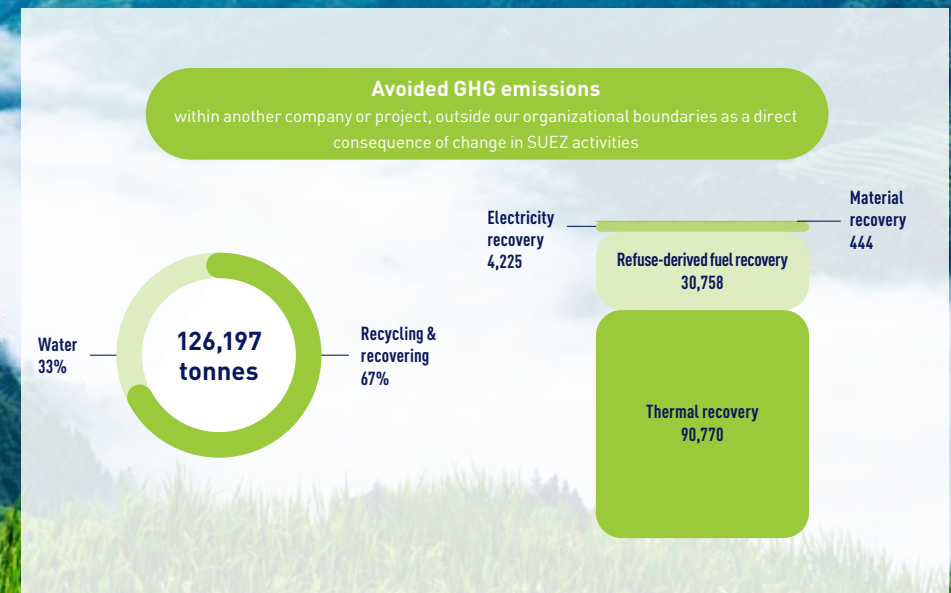
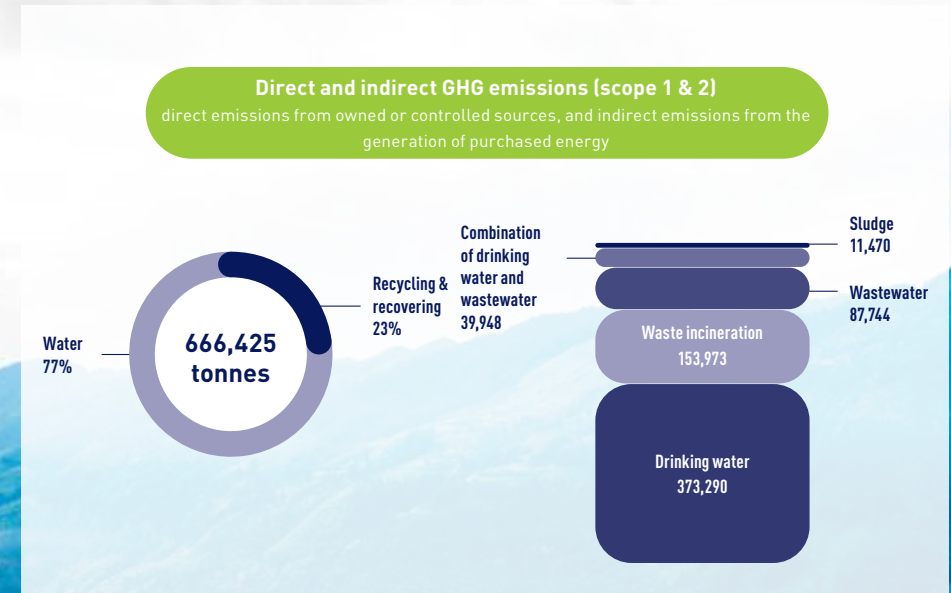
**17.81 Mm<sup>3</sup>**  
alternative water production

**62,244 tonnes**  
refuse-derived fuel production



Joey Chio  
Chief Communications and  
Sustainability Officer of SUEZ Asia

“In Asia, climate mitigation and adaptation have always been the most prioritised topic in our sustainable development agenda. We continually commit ourselves to developing a climate-positive and resilient business model. Together with partners and stakeholders, we can generate a bigger contribution towards the carbon neutral goal.”



## Carbon management

Besides project development to reduce carbon footprint, we also focused on how to develop our capacity and support businesses to generate a bigger impact. We increase awareness and share knowledge by providing training courses and seminars. We foster the culture of innovation to develop low carbon and digital solution that are contributive to climate positive. Sustainability especially climate impact has been taken into analysis in the development phase of key projects. Our business offers have also promoted sustainable and GHG reduction solutions. For instance, in our treatment infrastructure activities, we have started GHG emission accounting and integrating GHG reduction considerations into proposals submitted to our petrochemical clients.

In 2021 SUEZ Asia ran an online Carbon Neutral Seminar for all employees and partners. The workshop facilitated deeper understanding of carbon neutral policies and trends, as well as of sustainability investment, technical approaches to the environmental industry and SUEZ's internal solutions. Over 1,300 participants joined the training.



**1,300+**  
participants

**4**  
sessions





## Our green energy journey



### Our strategy for green electricity

Given the nature of SUEZ Asia's business, consumption of purchased electricity contributes the largest share of GHG emissions in the region. Electricity use accounts for around 80% of the total GHG emission in SUEZ Asia. In our water operations activity, the contribution from electricity consumption is even higher, reaching around 99% of its all GHG emissions (scope 1&2).

With the support of SUEZ global sustainable development team, we performed a green electricity sourcing study focused on China. The results of the study indicated that the best route via which to reach 100% green electricity was onsite direct investment in renewable energy (especially onsite solar power generation). This has taken into account all feasibility, quality and economic factors.

In Asia, we are accelerating the pace of developing on-site solar power projects and other renewable energy projects. In our JVs in Shanghai, Tanzhou and Panjin, we have worked with our partners for the projects of photovoltaic power stations under the concept of "self-supply from self-generation, power grid support if surplus".

## Chongqing Tangjiatuo Wastewater Treatment Plant (WWTP) Energy recovery from wastewater

**Energy self-sufficiency rate at 30% in 2021**  
**More actions to reach higher target**

In Chongqing, Tangjiatuo WWTP provides daily municipal wastewater treatment services for one million citizens, with a daily wastewater treatment capacity of 400,000 tonnes, and daily sludge drying capacity of 240 tonnes.

The plant has creatively adopted resource recycling solutions, such as biogas production from anaerobic digestion of wastewater sludge, treated wastewater power generation, and water reuse facilities, to greatly reduce the consumption of natural gas, electricity and water resources.

In the coming few years, the plant will integrate more emission reduction projects into operation to reach a higher level of energy self-sufficiency, including pump efficiency improvement, capacity increase of hydro power generation and installation of water source heat pump etc.

**32,188 MWh**  
renewable energy generated in 2021

**10,321 tCO<sub>2</sub>**  
avoided emission in 2021



## GHG emission mitigation

### Renewable energy

### Operation efficiency improvement

### Energy saving

### Circularity

### Nature-based Solutions

- |                                      |                               |                                     |  |                               |
|--------------------------------------|-------------------------------|-------------------------------------|--|-------------------------------|
| ① Water treatment plant              | Ⓐ Solar panel                 | Ⓔ Nature gas use reduction          | Ⓗ Energy recovery and steam supply               | Ⓛ Non-revenue water reduction |
| ② Hazardous waste incineration plant | Ⓑ Water source heat pump      | Ⓕ Precise aeration                  | Ⓘ Upstream waste capture/reuse (integrated WWTP) | Ⓜ Precise dosing              |
| ③ Wastewater treatment plant         | Ⓒ Biogas capture and use      | Ⓖ Equipment maintenance and upgrade | Ⓣ Water recycle                                  | Ⓝ Other smart water solution  |
| ④ Sludge drying plant                | Ⓓ Tail water power generation |                                     | Ⓚ Dry sludge as derived fuel                     | Ⓞ Artificial wetland          |
| ⑤ Soil remediation                   |                               |                                     |  | Ⓟ Ecological restoration      |



## Shenghong project

**8,000 tonnes**  
of CO<sub>2</sub> reduction per year from  
“treating waste with waste”

In 2021, SUEZ, Shenghong Group and Sinopec Guangzhou Engineering received the Comité France Chine (CFC) 2021 Innovative Initiative Award for their green ultra-low petrochemical wastewater discharge solution.

The award-winning solution has excellent performance on “treating wastes with wastes” concept, realising recycling, energy saving and emission reduction.



## Shanghai SCIP Sino French

**4,803,000 KWh**  
of electricity saving per  
year from pump operation  
optimisation

In 2002, SUEZ signed a cooperation agreement with Shanghai Chemical Industry Park (SCIP) to provide water supply and wastewater treatment services for industrial customers in the Park. By deploying smart solutions for more sophisticated water management, SUEZ helps the Park pursue its dual goals of becoming a world-class industrial park and improving its overall competitiveness.

Meanwhile, we have been prioritising to develop a low carbon model through energy efficiency improvement, onsite solar power development, increasing regenerated water production, etc. In 2021, thanks to the synergised operation of a new water intake pump station and an existing pump station, we could save 4,803,000 KWh of electricity per year, equivalent to 3,000 families' annual electricity consumption.

## Hazardous waste project in Suzhou Industry Park

**1.2 Mm<sup>3</sup>**  
of natural gas saving through  
efficiency optimisation



Since 2019, SUEZ has operated a hazardous waste disposal facility with the capacity of 30,000 tonnes per year in Suzhou Industrial Park. The facility is built and operated at the highest standard, equipped with most comprehensive off gas treatment unit and the largest deodorisation unit in the industry.

In 2021, we also continued reducing our own environmental footprint. The utilisation efficiency of natural gas was further improved thanks to operational process and management optimisation.



## Pudong Sludge Plant

**122,000 tonnes**  
of steam generated from sludge  
incineration

SUEZ applies the Group's Thermylis® 2S solution into Pudong's sludge treatment plant. This process maximises the reduction, stabilisation and harmless treatment of wet sludge with strict emission control.

Every year, 300,000 tonnes of wet sludge can be treated and reduced which saves around 300,000 m<sup>3</sup> landfilling capacity.

The generated 30,000 tonnes of inorganic ash can be reused as raw material for cement production. Steam, produced from the incineration of dried sludge, can be used for operation onsite, which demonstrates a model of reduce, reuse and recycle.

## Natural capital and biodiversity

At SUEZ, we invest in preserving and restoring natural capital, as well as in protecting the future of biodiversity, both on land and sea. The close links between biodiversity, climate and health are undeniable. It is this firm truth that drives SUEZ's dedication to innovate its solutions and magnify its strong expertise in artificial wetlands, soil remediation, ecological restoration and water body restoration. We also promote nature-based solutions within our extensive offerings to clients. In this way, we ensure that our efforts generate a positive natural impact.

Safeguarding biodiversity in SUEZ Asia's current sites, as well as in projects under development, was among the key sustainable

development targets for 2021. We have committed to mapping all existing priority sites<sup>1</sup> and implementing biodiversity action plans by 2025. Our biodiversity action also includes non-priority sites. For example, the Panjin JV has already implemented a plan to build artificial wetlands, with the goal of enriching local biodiversity and creating a welcoming environment for staff.

**6**  
priority sites  
identified

**2** sites  
have taken  
biodiversity  
action plan

1. SUEZ has defined biodiversity priority site: the production site with the coverage area larger than 10ha or falling under IUCN protected area level IV, V, VI. IUCN protected area management categories classify protected areas according to management objectives. Category IV, V, VI cover habitat/species management area, protected landscape or seascape and protected area with sustainable use of natural resources





## The nature-based solutions of SUEZ

SUEZ has been developing Nature-based Solutions (NbS): actions to protect, sustainably manage, and restore natural or modified ecosystems, that address societal challenges and provide both human and biodiversity benefits.

In Asia, we help reduce humanity's environmental footprint through water treatment, waste management, providing services of soil remediation, water restoration, landfill restoration and other decontamination activities. NbS benefit mankind and biodiversity by looking at how nature and ecosystems function.

In 2020 and 2021, SUEZ remediated totally 50,097 m<sup>3</sup> soil and 106,813 m<sup>3</sup> groundwater/leachate in Asia.

### Chongqing Tangjiatuo WWTP Artificial wetland supporting biodiversity in urban landscape

Chongqing Tangjiatuo WWTP, as one of the biodiversity priority sites in Asia, the plant has designed with artificial wetland from plant construction. The wetland covers an area of around 1,600 m<sup>2</sup> with the observation of species such as turtle dove, magpie, spring feather, red leaf plum tree.

Biodiversity monitoring system and action plan have been established aiming to provide a habitat for local species and, the landscape offers employees a relaxing workspace.



### SEAC Pai Van WTP “One-star” Green Building creating a habitat corridor



In 2021, Macao Water officially commissioned the newly completed Seac Pai Van Water Treatment Plant (WTP).

It is the first WTP in Macao to receive a “One-star” rating from China's Green Building Evaluation Label, in acknowledgement of its efforts to use a “green plant” concept and to blend that with the landscape of the Seac Pai Van reservoir.

### Reclaimed water advanced treatment project for Universal Beijing Resort

Since August 2020, SUEZ has provided technical services for the Universal Beijing Resort's in-depth treatment station of reclaimed water. Building an ecological city concept has been a principle in the project, benefiting from the high reclaimed water cycle and water quality system, thus surrounding landscape, nature and ecological habitat has been formed to contribute to biodiversity preservation.





Biodiversity is the key to all life on Earth. For this reason, it is vital to amplify the share of conversation devoted to the biological variability of life on Earth, in public discourse. This is among SUEZ Asia's most closely held commitments. Through various tactics we practice onsite, as well as through powerful collaborations with NGOs, government departments, community-based organisations, local institutions and media, we raise the profile of this vital societal imperative. Engaging a broad spectrum of stakeholders empowers us to advocate for joint efforts to address the challenge of preserving biodiversity.

## Nature is everyone's business

Together with more than 1,100 companies, SUEZ has joined the Call to Action initiative by Business For Nature, to appeal governments to adopt ambitious policies to reverse nature loss in this decade.



In China, we have pledged Call to Action in the region, to ensure global commitments have been integrated with local action.



Steve Clark  
CEO, SUEZ Asia



**"At SUEZ, we are committed to preserving the environment. We act every day as a partner for cities and industrial players to ensure a more sustainable and inclusive future for all.**

**We need to join forces for nature so that public and private sectors can implement solutions and empower society to act. Together let's protect, restore and sustainably use our nature resources."**



## Protecting coastlines and oceans

SUEZ has supported The Nature Conservancy's "Save Our Shells" programme in Hong Kong to recycle discarded shellfish shells from reefs. These shells, that would normally go into landfills, or be discarded as trash on the shoreline, are instead repurposed into substrate for new, living reefs.



The programme supports also advocacy of employees on local action for biodiversity preservation. Over 14 tonnes of shells were collected in 2021, among which over nine tonnes have been diverted from landfills to create the foundations for new reefs.





# Prosperity

We believe that all human beings can enjoy prosperous and fulfilling lives, while economic, social and technological progress occurs in harmony with nature. There is no dispute that better business practices feed into the greater good. For SUEZ, it means that we can benefit the many more through the development of essential services and expansion of our environmental expertise. In this process, technical innovation and shared value creation are two important enablers that further boost the shape of prosperous future.



## Cultivating a better quality of life

SUEZ has pledged to continue investing in Asia's environmental services, as part of its contribution to the region's green goals. China's journey to realise its sustainable development goals represents an excellent opportunity for foreign companies to share their experience and technologies, while working with the great nation to achieve its environmental goals.

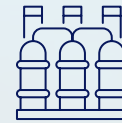
### SUEZ strengthens presence in Asia, securing access to essential water and waste services

Early in 2021, SUEZ Asia announced it had signed an agreement with its longstanding partner NWS Holdings Limited (NWS) to acquire non-controlling equity interests of the latter in all the shared business activities of the two Groups in Greater China. These acquisitions showed SUEZ's confidence in Asia market, expanded SUEZ's presence in Greater China and simplified its business structure in the region.

In 2021, we expanded water and waste services even further, signing over 40 contracts to provide technical expertise to water, wastewater and sludge treatment projects, as well as infrastructure engineering services. Now, over 20 million people served by water and waste facilities operated by SUEZ.

## 20 million +

people in Asia received the water and waste services operated by SUEZ



**1,502 Mm<sup>3</sup>**  
drinking water produced  
(same volume in 2020)



**419 Mm<sup>3</sup>**  
wastewater treated  
↑21.8%\*



**146,458 tonnes**  
hazardous waste treated  
↑8.6%\*



**42,069 m<sup>3</sup>**  
soil remediated in 2021  
↑424%\*

\* in comparison with 2020



### Inauguration of Seac Pai Van Water Treatment Plant in Macao: unwavering commitment to leading on sustainable development

On 30 November 2021, Macao Water, a SUEZ subsidiary, officially commissioned the newly completed Seac Pai Van Water Treatment Plant. The new facility increases Macao Water's total daily water supply capacity from the 390,000 m<sup>3</sup> to 520,000 m<sup>3</sup>, a level sufficient to meet Macao's growing water demand for the next decade.

The facility is the first WTP in Macao to receive Certificate of Green Building Design Label in acknowledgement of its efforts to use a "green plant" concept. It also deploys solar-powered street lights, an efficient pumping system, and reclaimed water reuse solutions. In combination, these measures achieve significant energy savings and reduce the plant's carbon footprint.



### SCIP SUEZ Anyo: relieving increased demand for hazardous waste treatment

A new joint venture project to recover hazardous waste, a collaboration between SCIP, Shanghai Automotive Industry Corporation (SAIC) Motor Co., Ltd. and SUEZ began construction in 2021. The construction is set to be complete in Q1 2023. The joint forces aim to recover hazardous waste from the automotive sector, as well as from clients inside or outside SCIP.

With a total capacity of 40,000 tonnes/year, the project will relieve increasing demand for hazardous waste treatment. The facility will be equipped with most advanced waste treatment technologies that comply with the strictest European emission standards in force, as well as an energy recovery system to generate steam while incineration.



### SUEZ committed to sustainability from infrastructure inception to completion

Paying close attention to sustainability principles in treatment infrastructure design and construction is how SUEZ integrates sustainability concepts from the very beginning. This is also how we help clients reach more sustainable production and operations, when removing pollutants. In 2021, SUEZ Asia signed over 40 contracts for water and wastewater treatment infrastructure design and construction.

SUEZ's designs and proposals use numerous proprietary solutions and innovative approaches to help clients reach lower emissions levels, while also cutting down their consumption of energy and chemicals. Through a collaborative effort, between SUEZ and our partners, the carbon footprint is lowered. Many of our projects are considered benchmarks in the environmental industry, in large part due to the excellent synergies they create between the petrochemical and environmental industries.



## Our expertise addresses environmental challenges and sustainable needs

For years now, the public, and governments, have expected more from the environmental industry than the mere removal of pollutants. Environmental companies, through their expertise, have more opportunities to contribute to ecological restoration, pursuit of the use of renewable sources of energy and resource circularity. This is the SUEZ core focus in Asia. Through our business development, we help improve standards of living for people across the board.



Stephane Heddesheimer  
Deputy CEO of SUEZ Asia Pacific



**“We are keen to apply our global expertise and technology to support local authorities and industrial clients develop innovative solutions to climate change and sustainable resource management in Asia. Governmental commitments in GHG emission reduction and carbon neutrality have provided multinational corporations many opportunities to support the region in reaching its ambitious goals.”**



Today, aging pipelines pose major challenges to safe and efficient water supplies or wastewater treatment. To solve pain points faced by local governments or water companies, we have developed a breakthrough technique for using slush-like ice to clean naturally occurring sediment from the inner walls of pipes. It is a highly effective, exceptionally low risk method. In 2021, SUEZ has been awarded the contracts using ice-pigging technology in Chongqing, Yixing and Shaodong in China, also with on-going support in Singapore with the Public Utilities Board.

In 2021, we further enhanced SUEZ's service profile in Asia. Through a newly formed JV, SUEZ has expanded the scope of its capabilities, to include the treatment of exhaust gas treatment, a move that will significantly contribute to improving air quality.



Restoring the landfill and returning the land back to the public will also help to shape a better quality of life for inhabitants, and foster a greater sense of wellbeing. In Jinshan, Shanghai, our soil remediation team supports a landfill restoration project with the final goal to redevelop the land for public and commercial use. In 2021, 179,100 tonnes of solid waste from eight landfill pits were treated through sieving, segregation and leachate treatment. In total, 66,506 m<sup>3</sup> leachate was treated.



# Co-creating value with multiple stakeholders

In Asia, we realise that the goal of transforming into a more sustainable society can never be achieved without a collective, and inclusive, global effort. That is why broadening the reach of shared value co-creation is another fundamental part of how we do business. We value being able to exchange insights and collaborate with partners, suppliers, institutions, non-governmental organisations (NGOs), and other stakeholders.

## NGOs and Civil Society Organisations

We work closely with NGOs and civil society organisations that share a dedication to environment protection and sustainable development. By working together with these organisations on conferences, seminars and environmental/social projects, we are able to extend the reach of our combined efforts to many more people, and to encourage others to start taking their own proactive measures to protect the environment.

### Some of the organisations we have cooperations with



### Contributing through social events

**20-22 Apr, 2021**

IE Expo Shanghai

**20-23 May, 2021**

Western China International Fair

**6-7 Jun, 2021**

The Business and Finance Journey to Kunming: we are part of the solution

**8 Jul, 2021**

China Ecological and Environmental Industry Forum

**5-6 Oct, 2021**

RETHINK HK

**17 Oct, 2021**

Sino-French Forum on Green and Sustainable Business Development

**21 Oct, 2021**

Sino-French Greater Bay Area Business Summit

**27-30 Oct, 2021**

Eco Expo Asia

**11 Nov, 2021**

Environment Seminar of Shanghai Chemical Industry Park

1. We have collaboration with French Chambers in Mainland China, Hong Kong and Macao.

## Working closely with governments

For SUEZ in Asia, it is vital to maintain close communication and collaboration with government departments. By tracking policy development updates issued by various authorities, we can better support governments and municipalities towards their environment protection and sustainable development goals.

We also work to create greater social and environmental impact with governmental partners by advocating for sustainable practices and solutions, as well as by sharing our experience and knowledge.



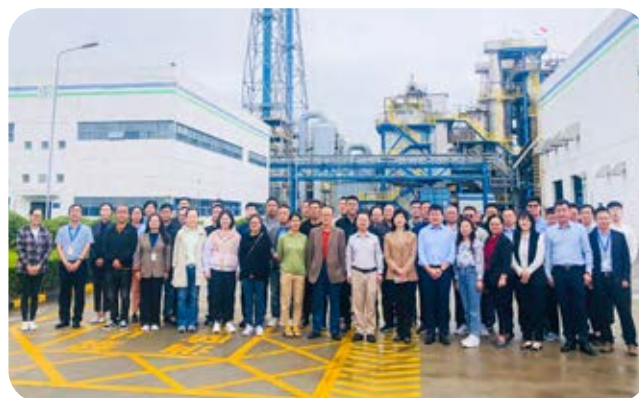
### The 16<sup>th</sup> Annual Meeting of the Chongqing Mayor's International Economic Advisory Council (CMIA)

As a strong advocate of public-private cooperation, and a key member of the CMIA, SUEZ attended the 2021 edition of the CMIA's annual meeting, together with 38 representatives of companies from nine different countries and regions. Council members discussed strategic recommendations to facilitate Chongqing's development. The Council remains a high-level platform that facilitates exchange between Chongqing government and world-leading companies.



### The 3<sup>rd</sup> Biennial Meeting of the Chengdu Municipal People's Government's International Advisory Committee

We first joined the Advisory Committee in 2016 and have since been invited to attend the meetings, to contribute ideas on sustainable urban development, as well as on green, low-carbon transformation.



### Nationwide hazardous waste management technical exchange at SCIP - a platform for industrial expertise exchange

In 2021, SUEZ co-organised a three-day technical exchange session with the Solid Waste and Chemical Centre that is under the Ministry of Ecology and Environment of China. Over 30 government officials gathered at the SUEZ operation site at SCIP for knowledge exchange and sharing of insights into safe, sustainable hazardous waste treatment and management practices.



## A responsible and trusted business partner

Fostering win-win cooperation and trust-based relationships creates success. With our partners we share values, grow together and drive forward our joint commitment to circular economy and sustainable development.



**In Chongqing**, SUEZ first entered into a partnership with the local municipality in 2002 by delivering water production and network services. Thereafter our work expanded from oversight of individual projects to provision of integrated wastewater treatment, smart water, and environmental services. Today, SUEZ's total investment in Chongqing exceeds 4 billion RMB. We remain dedicated to improving the wellbeing and quality of life of households in Chongqing.



**In Changshu**, SUEZ has been working with local partner since 2006 to provide water services in the city and has since expanded its services to include wastewater treatment, smart water services, industrial wastewater treatment and construction and renovation waste recycling. In 2021, SUEZ, through its JV with Changshu, created a new JV with Anji to operate and maintain a construction waste recycling plant in Anji, located in Zhejiang province, for a period of 20 years.

**In Shanghai**, SUEZ partnered with SCIP, one of the world's largest chemical industry parks, to provide the world class chemical companies resident in the Park with water and waste services. Following around 20 years' successful collaboration, SCIP, SUEZ and SAIC, a major Chinese automotive manufacturer, are co-investing in a new hazardous waste recovery project in SCIP.



## Growing together with suppliers and developing a sustainable supply chain

Suppliers are our key partners. We grow with them, transforming our supply chain into a greener, more socially responsible value chain. We share our commitment to ethics, health & safety, environment with them, integrating them into our approaches through sustainable procurement policies. We also ensure that suppliers match our principles in their practices by including CSR clauses in our purchasing contracts. Moreover, we piloted a new internal mechanism to identify and manage CSR risks.

To supplement these efforts, we have now begun a dialogue with key suppliers, including those with a significant environmental footprint and those that can help drive SUEZ's sustainability agenda through their low carbon offerings, to reaffirm their importance to SUEZ's sustainable development.



### Environmental

- Include the requirement of environmental protection in all contracts signed with suppliers, and control relevant risk
- Promote low carbon procurement

### Social

- Include CSR requirements in all contracts signed with suppliers
- Perform CSR risk assessment and mitigation throughout procurement process

### Economy

- Encourage local purchasing and manufacturing
- Encourage purchasing from small and medium enterprises

**24% purchase**

from local SME

-

**100%**

of contracts with CSR clauses





## Embracing innovation, shaping SUEZ's future

Asia is recognised as the most dynamic market in environmental business, and innovation in SUEZ Asia is an integral part of SUEZ's global innovation ecosystem. The work of progressing innovative advancements in the region is supported by a dedicated team with expertise in, as well as passion for, fostering an innovation culture, monitoring external technologies and developing partnerships that drive corporate growth and boost community prosperity.

### Interconnected innovation: from global to local

In Asia, we focus on developing suitable technology for the region to help the region transition towards a more sustainable future. Beyond tapping into SUEZ's global portfolio of patented technologies and R&D resources, we have made a concrete commitment to fostering local talent by establishing an R&D Centre designed to develop solutions that are tailored to local needs. In China, our six R&D centres are spread across Beijing, Chongqing, Shanghai, Changshu and Macao. Their focus is on helping clients, and the local community, to pursue green development.

### SUEZ global innovation power

# 13

R&D centres worldwide, of which, **7** are located in Asia



Chongqing Sino French Environmental Excellence R&D Centre



Suzhou Sapient Scientific Technology



Shanghai Chemical Industry Park Waste R&D Centre

# 50

areas of expertise



Shanghai Chemical Industry Park Water Research Centre



Macao Water for smart water solutions



Treatment Infrastructure for water engineering projects

## RISE - platform to foster innovation culture

To foster a thriving and vibrant culture of innovation, we have created RISE, which is SUEZ Asia's dynamic open sharing platform for the areas of Research, Innovation, SUEZ Venture and Enhance Digital.

RISE promotes sharing of knowledge and information, facilitates synergistic cooperations on new projects. The platform contains regular updates on Innovation, Research, Digital and Corporate venture investment. Valuable information is gathered from internal entities across SUEZ Asia, SUEZ's Head office and external sources.



### 2021 SUEZ Asia Innovation Trophy

In 2021, we again hosted the annual edition of the Innovation Trophy, an internal event designed to inspire employees' creativity across business areas and celebrate outstanding examples of innovation from across the company. Recognising that it takes time and effort to innovate, the awards feature solutions at various stages of development.

**168**  
innovation submissions

-  
**857**  
person-time participates

-  
**47**  
innovation nominations

**15**  
best innovations

-  
**2**  
best promotions

-  
**6**  
Asia grand innovations

### Partnership with academia

At SUEZ, innovation is always open and collaborative. That is why we have built a strong network of academic partners in Asia:

A strong network of academic partners covering multiple specialties and locations worldwide

#### Asia

- RCEES-CAS (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences)
- Tsinghua University
- HIT (Harbin Institute of Technology)
- Tongji University
- University of Macau
- NTU Singapore
- .....

#### Europe

- INRAE
- BRGM
- Bordeaux University
- LSCE
- .....

#### Africa & Middle East

- Cheikh Anta Diop University





## SCIP+ innovation and entrepreneurship contest

This annual Innovation and Entrepreneurship Contest is focused on innovation for Chinese students, start-ups and other innovation-focused teams. The 2021 edition of the contest was held in Shanghai, in June. Since 2019, the first year of the contest, SUEZ, as a co-organiser of the contest and its two JVs in SCIP have taken part and provided technical support to the event. The competition is one of the best ways to encourage innovative talents, showcase their work, and transform results into productivity. It also helps to drive the green development of the environment industry and of the Park.

## Precise prediction and application of water demand

Precise prediction of water demand is of great significance to water operations. It can predict changes in water volume in time to achieve precise distribution of water volume in space and time dimensions. Water dispatching methods applied based on water demand prediction can exploit existing water supply capacity and raise asset utilisation rate.

At Chongqing Sino French Water, our innovative precise prediction solution established historical water demand database, dispatch plan database, and optimised energy consumption control. It links a series of water demand related data for the first time in the industry. The data is processed

by machine learning and deep neural network etc., which realises the automatic optimisation of algorithm. The system can also provide data support to the decision-making process of network and water supply construction.

With the successful implementation of this innovation in Chongqing Sino French Water, it further reduced electricity consumption on keeping pipe pressure and raw water consumption. The project also won the 2<sup>nd</sup> prize in 2021 Shared Open Data Innovation Contest with over 760 teams from well-known universities, research institutes and enterprises around the world.





## **AQUADVANCED® Plant – innovative smart water service solution**

Integrated solutions help municipality build smart, resilient & resourceful cosmopolitan city. In Chongqing, we provide smart water services by using SUEZ's innovative AQUADVANCED® Plant and big data technology to equip the municipality with a “smart brain” for water supply, further optimising the operational efficiency of water supply facilities and networks, providing safer, better, and more reliable water services to the residents and commercial clients. Additionally, our WWTP is recognised by the industry as a benchmark towards the next centenary goal for sophisticated WWTP operation and management.



### **SUEZ Asia Dehydri™ Ultra wins second prize in performance category**

SUEZ Asia Dehydri™ Ultra wins Second Prize in Performance Category of SUEZ Innovation Awards 2021. The project was developed by Treatment Infrastructure of SUEZ in Asia team, the facilities are benefiting from dried sludge with 35% water content, energy self-sufficient 24/7 fully automated system, eventually turning sludge into resources, contributing circular economy.





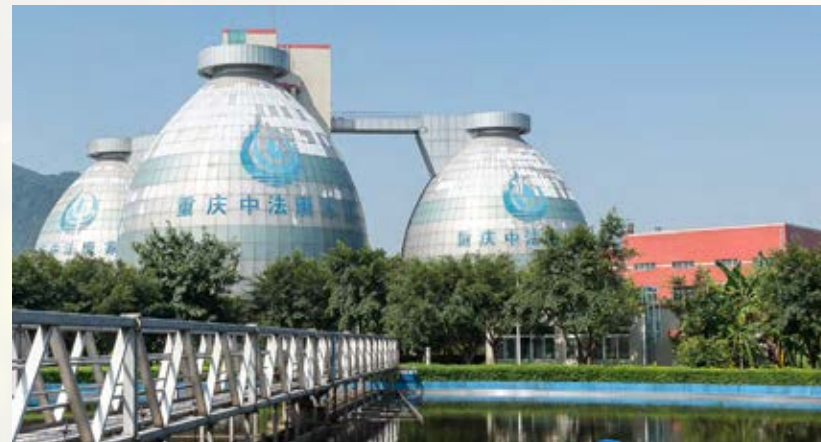
# Awards and Accolades

We are honoured to have received the awards and accolades from the industry and local authorities in recognition of our stellar performance and commitment to the communities where we operate.

## Operational excellence

### Chongqing Sino French Tangjiatuo WWTP

Benchmark of Wastewater Treatment Plant in China



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### Hazardous waste project in Suzhou Industry Park

Top 30 Green Development Award and Model of Corporate Responsibility by Suzhou Industrial Park Administrative Committee





### **SCIP Sino French**

"Enterprise Technology Center" entitled by Fengxian District



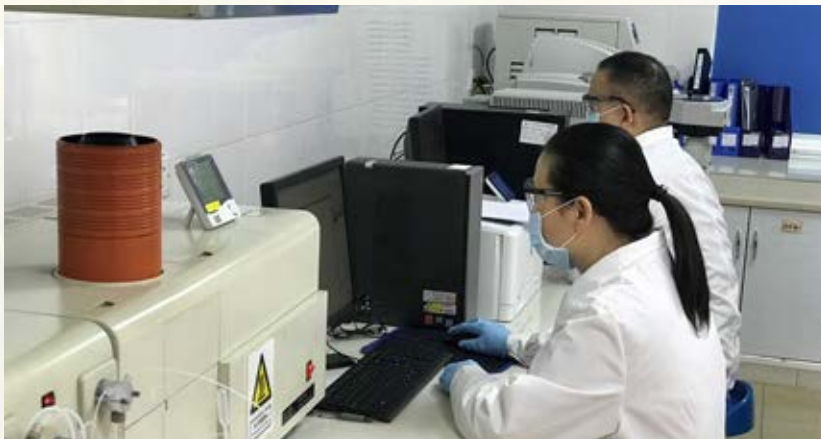
### **Chongqing Changshou Sino French**

Outstanding Enterprise in Ecological & Environmental Protection and the Best Organiser of CSR activities in 2021



### **Tanzhou Water**

Satisfactory result in inter-lab parameter test comparison by Technical Committee for Water Quality Testing



### **Jiangsu Water**

The first water quality technology standard publication of the province





## Corporate sustainability

### SUEZ

Sustainable Business Award  
by World Green Organisation



### SUEZ

The 5<sup>th</sup> Sustainable Business Awards of Resilient Industry, Innovation, and Infrastructure Leader Award  
by The European Union Chamber of Commerce in China



### SUEZ

"Most Socially Responsible Member Enterprise 2021"  
by China Environment Chamber of Commerce



### Xi'an CAIB Sino French

"Social Responsibility Award in Xi'an for 2020" by  
China Association of Enterprises with Foreign  
Investment in Xi'an



### Macao Water

Three awards in the "Family-Friendly Employers  
Award Scheme" by the Women's General Association  
of Macau



### SUEZ Shanghai Office

"Model Enterprise for Waste Sorting – Sustainable  
Waste Manamgent" by Shanghai Jing'an District  
People's Government





## Corporate influence

### SUEZ

Top 10 Most Influential Water Company by E20

**Macao Water, Jiangsu Sino French and Chongqing Sino French Water**

The most Social Responsible Company by E20



### Sino-Singapore SUEZ

National Model Enterprise by Ministry of Ecology and Environment, Ministry of Housing and Urban-Rural Development



### SUEZ

Water Industry Infrastructure Reference Cases in China by E20



## Innovation capability

### SUEZ

Greater Bay Area Trophy by CCI France Chine



### Macao Water and Jiangsu Sino French Water

Best System and Model innovation by E20



### Chongqing Sino French Water

2<sup>nd</sup> prize in Shared Open Data Innovation Contest (SODIC) 2021





# Sustainable development performance highlights 2021

SUEZ in Asia  
Environmental sustainability is  
our passion, our purpose and our practice!

## People

It is our ambition to ensure that we provide an engaging, safe and inclusive place to work, enhance the wellbeing of people we work with, as well as the communities we serve.

### Health and safety

**0.27**

accident frequency

**0.013**

accident severity

**94,148**

health and safety training hours

**797**

number of managerial site visit

**6,000+**

number of unsafe conditions reported and solved

**22**

systematic health and safety innovations

### Diversity and inclusion

**40%**

women in management positions

**38%**

women in total workforce

**50%**

women in development program

**99.4%**

employee training coverage

### Talent and competence development

**14,959**

employee training hours

**69%**

employees participated in the "Passion for Environment" training

### Community support and volunteering

**359M RMB**

community investment

**590**

number of volunteers



## Planet

We are determined to protect the planet's resources from degradation, through concrete actions of preserving eco-system, mitigating climate change and providing sustainable solutions.

### GHG emission and mitigation

**666,425 tonnes**

GHG emission including Scope 1 and 2

**153,973 tonnes**

GHG emission from waste management

**512,452 tonnes**

GHG emission from water operation

**126,197 tonnes**

(5.0% ↑ vs. 2020)

avoided GHG emission

**85,115 tonnes**

avoided GHG emission from waste management

**41,082 tonnes**

avoided GHG emission from water operation

### Circularity

**219 GWh**

(5.5% ↑ vs. 2020)

renewable energy produced

**17.81M m<sup>3</sup>**

(50.2% ↑ vs. 2020)

alternative water produced

**62,224 tonnes** (3.0% ↓ vs. 2020)

refuse-derived fuel produced

### Biodiversity

**1/3**

of priority sites with biodiversity action plan

## Prosperity

We believe that all human beings can enjoy prosperous and fulfilling lives, while economic, social and technological progress occurs in harmony with nature.

### Better quality of life

**20M+**

people who received the water and waste services operated by SUEZ

**1,502M m<sup>3</sup>**

(same volume in 2020)

drinking water produced

**419M m<sup>3</sup>**

(22% ↑ vs. 2020)

wastewater treated

**146,458 tonnes**

(8.6% ↑ vs. 2020)

hazardous waste treated

**42,069 m<sup>3</sup>**

(424% ↑ vs. 2020)

soil remediated

**66,506 m<sup>3</sup>**

(65% ↑ vs. 2020)

leachate and groundwater treated

### Sustainable supply chain

**24%**

purchase from local small and medium enterprises

**100%**

contracts with social responsibility clauses

### Innovation

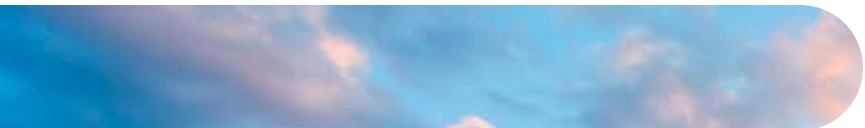
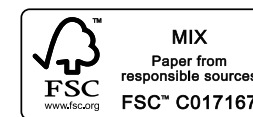
**168**

innovation submissions in SUEZ Asia Innovation Trophy

**857**

person-time participation in SUEZ Asia Innovation Trophy





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We welcome your feedback on our sustainability performance and on this Report:

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